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FCC UNII REPORT

Certification

pplicant Name:
SAMSUNG Electronics Co., Ltd.

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

Date of Issue:
May 13 2022

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

Report No.: HCT-RF-2205-FC016

FCC ID:	**A3LSMG990U2**
APPLICANT:	**SAMSUNG Electronics Co., Ltd.**

Model:	SM-G990U2
Additional Model:	SM-G990U3/DS
EUT Type:	Mobile Phone
Modulation type	OFDMA,OFDM
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 : Jin Gwan Lee
Engineer of Telecommunication Testing Center

Report approved by : Jong Seok Lee
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-2205-FC016	May 13, 2022	- First Approval Report

Table of Contents

1. GENERAL INFORMATION

EUT DESCRIPTION

Model	SM-G990U2	
Additional Model	SM-G990U3/DS	
EUT Type	Mobile Phone	
Power Supply	DC 3.88 V	
Modulation Type	OFDMA, OFDM	
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	April 06, 2022 ~ May 10, 2022	
Serial number	Radiated: R3CT20AK1PL Conducted : 0e0b0f75a61f032c	

ANTENNA CONFIGURATIONS

1. The device employs MIMO technology. Below are the possible configurations

Configurations	SISO		SDM	CDD
	Ant.1	Ant.2	Ant.1 + Ant.2	Ant.1 + Ant.2
802.11ax	X	X	O	O

Note:

(1) O = Support, X = Not Support

(2) SISO = Single Input Single Output

(3) SDM = Spatial Diversity Multiplexing

(4) CDD = Cyclic Delay Diversity

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

RSDB Scenario	Bluetooth Ant.1	2.4 GHz WiFi Ant.1	2.4 GHz WiFi Ant.2	5GHz WiFi Ant.1	5GHz WiFi Ant.2
Bluetooth + 2.4 GHz WiFi + 5GHz WiFi MIMO	On	-	On	On	On
2.4 GHz WiFi MIMO + 5GHz WiFi MIMO	-	On	On	On	On

Non-DBS	5GHz WiFi Ant.1	5GHz WiFi Ant.2	Bluetooth Ant.1
5GHz WiFi MIMO + Bluetooth	On	On	On

3. Directional Gain Calculation

According to KDB 662911 D01 Multiple Transmitter Output v02r01F) 2) f) (ii)

Directional gain =

- $$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

Band	Ant Gain (dBi)		N_{ANT}/ N_{SS}	Directional Gain (dBi)
U-NII	ANT.1	-6.2	2 / 2	CDD : -4.84 SDM : -6.20
	ANT.2	-9.9		

Note

According to Ansi C63.10-2013 section 14.4.3, the directional gain is calculated using the formula, where GN is the gain of the nth antenna and NANT is the total number of antennas used.

Directional Gain = $10 \cdot \log(((10^{(\text{ANT1 Gain}/20)}+10^{(\text{ANT2 Gain}/20)})^2)/2)$ dBi

Sample MIMO Calculation:

Ex) Ant 1 : 11.58 dBm Ant 2 : 12.08 dBm

Ant1 + Ant 2 = MIMO

(11.58 dBm + 12.08 dBm) = (14.387 mW + 16.143 mW) = 30.53 mW = 14.88 dBm

2. MAXIMUM OUTPUT POWER

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

Band	Mode	MIMO	
		Ant. 1 + Ant. 2 Power	
		(dBm)	(W)
UNII1	802.11ax (HE20)	18.46	0.070
	802.11ax (HE40)	15.93	0.039
	802.11ax (HE80)	15.17	0.033
UNII2A	802.11ax (HE20)	18.87	0.077
	802.11ax (HE40)	16.07	0.040
	802.11ax (HE80)	14.95	0.031
UNII2C	802.11ax (HE20)	18.69	0.074
	802.11ax (HE40)	16.15	0.041
	802.11ax (HE80)	15.30	0.034
UNII3	802.11ax (HE20)	18.71	0.074
	802.11ax (HE40)	16.15	0.041
	802.11ax (HE80)	15.07	0.032

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 1.5m 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.

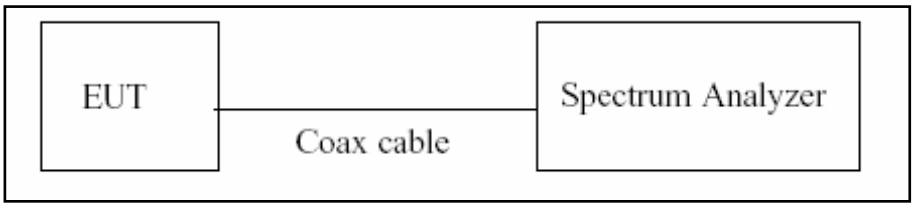
The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty (dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	2.00 (Confidence level about 95 %, k=2)
Radiated Disturbance (9 kHz ~ 30 MHz)	4.40 (Confidence level about 95 %, k=2)
Radiated Disturbance (30 MHz ~ 1 GHz)	5.74 (Confidence level about 95 %, k=2)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.51 (Confidence level about 95 %, k=2)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.92 (Confidence level about 95 %, k=2)
Radiated Disturbance (Above 40 GHz)	5.48 (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.

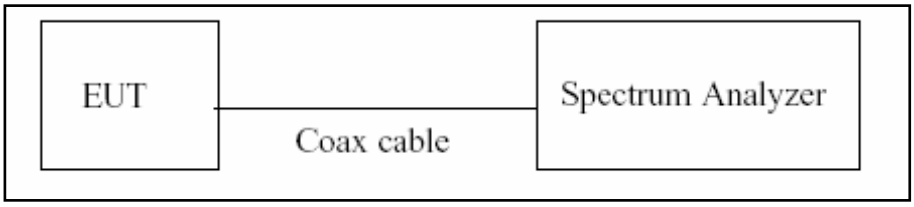
1. RBW = 8 MHz (the largest available value)
2. VBW = 8 MHz (≥ RBW)
3. SPAN = 0 Hz
4. Detector = Peak
5. Number of points in sweep > 100
6. Trace mode = Clear write
7. Measure T_{total} and T_{on}
8. Calculate Duty Cycle = T_{on}/ T_{total} and Duty Cycle Factor = 10log(1/Duty Cycle)

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.

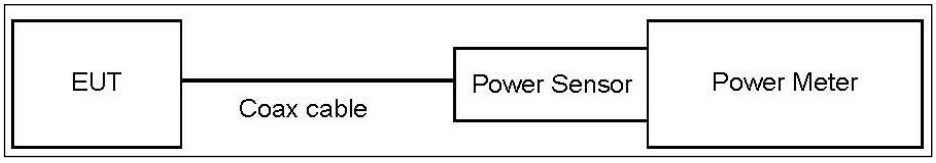
8.3. Output Power Measurement

Limit

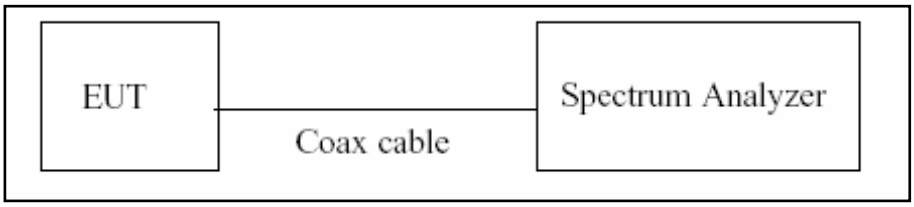
Band	Limit
UNII 1	- Master : Not exceed 1 W(=30 dBm) - Slave : Not exceed 250 mW(=23.98 dBm)
UNII 2A, 2C	Not exceed the lesser of 250 mW or 11 dBm + 10 log B, (where B is the 26 dB emission bandwidth in megahertz.)
UNII 3	Not exceed 1 W(=30 dBm)

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 Value(dBm) + ATT loss(dB) + Cable loss(dB) + Duty Cycle Factor(dB)

Note

1. Spectrum Measured Values 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
   Ant.1 Loss = Attenuator loss(10 dB) + Cable loss + EUT cable Loss
   Ant.2 Loss = Attenuator loss(10 dB) + Cable loss
3. Actual value of loss for the attenuator and cable combination is below table.

Band	Ant.1 Loss(dB)	Ant.2 Loss(dB)
UNII 1	11.69	10.87
UNII 2A	11.69	10.87
UNII 2C	11.69	10.87
UNII 3	11.69	10.87

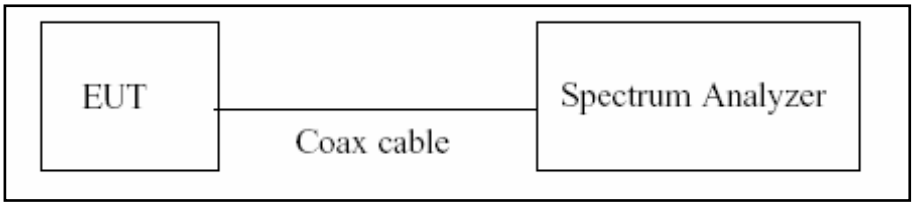
(Actual value of loss for the attenuator and cable combination)

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 Value(dBm) + ATT loss(dB) + Cable loss(dB) + Duty Cycle Factor(dB)

Note

1. Spectrum Measured Values are not plot data.
   The PSD results in plot is already including the actual values of loss for the attenuator and cable combination.
2. Spectrum offset
   Ant.1 Loss = Attenuator loss(10 dB) + Cable loss + EUT cable Loss
   Ant.2 Loss = Attenuator loss(10 dB) + Cable loss
3. Actual value of loss for the attenuator and cable combination is below table.

Band	Ant.1 Loss(dB)	Ant.2 Loss(dB)
UNII 1	11.69	10.87
UNII 2A	11.69	10.87
UNII 2C	11.69	10.87
UNII 3	11.69	10.87

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

8.5. 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 Value + Correction Factor

8.6. Radiated Test

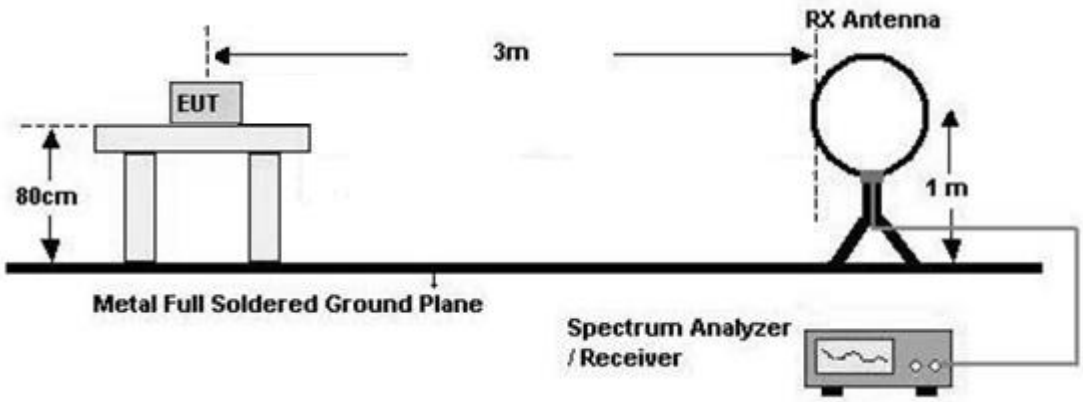
Limit

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 bandshall not exceed an EIRP of −27 dBm/MHz.
3. UNII 3: All emissions shall be limited to a level of −27dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHzabove or below the band edge, and from 25 MHz above or below the band edge increasing linearly to alevel of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the bandedge 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.

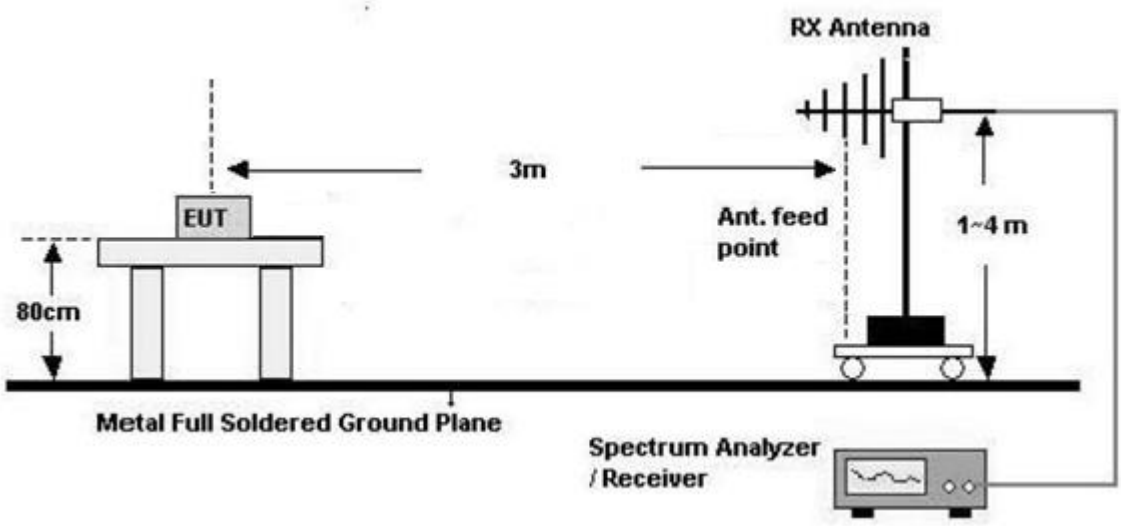
Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Configuration

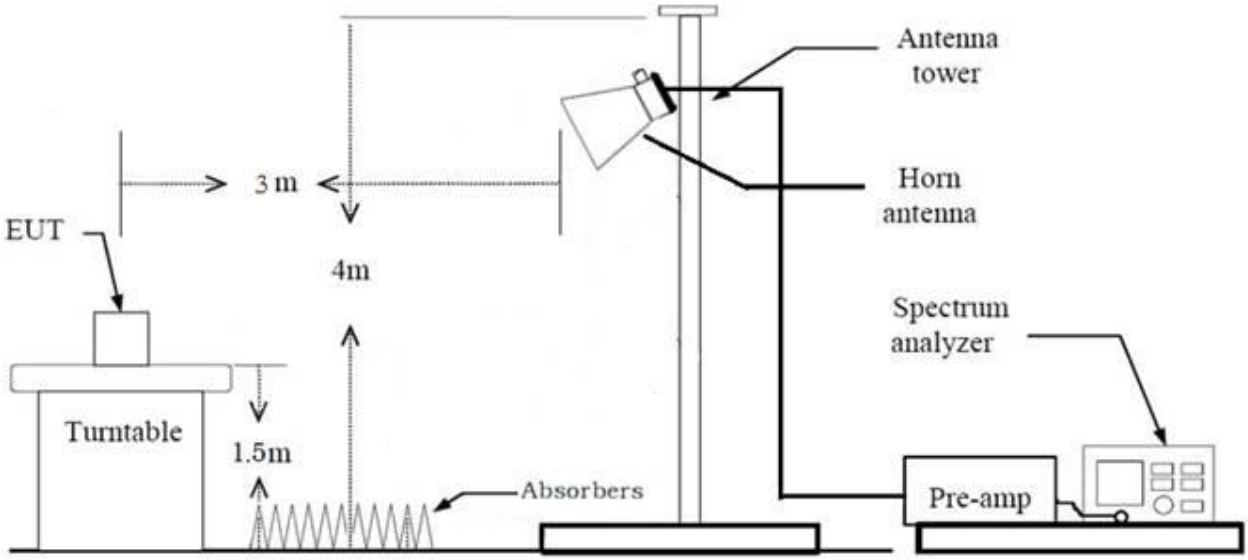
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



Test Procedure of Radiated spurious emissions(Below30 MHz)

1. The EUT was placed on a non-conductive table located on semi-anechoic chamber.
2. The loop antenna was placed at a location 3 m from the EUT
3. The EUT is placed on a turntable, which is 0.8m above ground plane.
4. .We have done x, y, z planes in EUT and horizontal and vertical polarization and Parallel to the ground plane in detecting antenna.
5. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
6. Distance Correction Factor(0.009 MHz – 0.490 MHz) =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 Value + Antenna Factor(A.F) + Cable Loss(C.L) + Distance Factor(D.F)

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

KDB 414788 OFS and Chamber Correlation Justification

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

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

Test Procedure of Radiated spurious emissions(Below 1 GHz)

1. The EUT was placed on a non-conductive table located on semi-anechoic chamber.
2. The EUT is placed on a turntable, which is 0.8m above ground plane.
3. The Hybrid antenna was placed at a location 3 m from the EUT, which is varied from 1 m to 4 m to find out the highest emissions.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
5. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
6. Spectrum 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 Value + Antenna Factor(A.F) + Cable Loss(C.L)
8. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

Test Procedure of Radiated spurious emissions (Above 1 GHz)

1. The EUT is placed on a turntable, which is 1.5 m above ground plane.
2. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
3. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
4. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. 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 minimum 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 Value + 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 minimum 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 Value + Antenna Factor(A.F) + Cable Loss(C.L) - Amp Gain(A.G) + Attenuator(ATT) + Distance Factor(D.F)

The actual setting value of VBW(cf. Section 10.1)

Mode	Tone	Worst Data rate (Mbps)	Duty Cycle	Duty Cycle Factor (dB)	VBW (1/T) (kHz)	The actual setting value of VBW (Hz)
802.11ax (HE20)	26	MCS0	0.993	0.03	0.385	1 000
	52	MCS0	0.993	0.03	0.386	1 000
	106	MCS0	0.993	0.03	0.411	1 000
	242	MCS0	0.993	0.03	0.419	1 000
802.11ax (HE40)	26	MCS0	0.993	0.03	0.386	1 000
	52	MCS0	0.993	0.03	0.386	1 000
	106	MCS0	0.994	0.03	0.410	1 000
	242	MCS0	0.994	0.03	0.419	1 000
	484	MCS0	0.994	0.03	0.419	1 000
802.11ax (HE80)	26	MCS0	0.993	0.03	0.385	1 000
	52	MCS0	0.994	0.03	0.385	1 000
	106	MCS0	0.994	0.03	0.410	1 000
	242	MCS0	0.994	0.03	0.419	1 000
	484	MCS0	0.994	0.03	0.419	1 000
	996	MCS0	0.994	0.03	0.413	1 000
802.11ax (SU)	BW 20	MCS0	0.997	0.01	0.183	1 000
	BW 40	MCS0	0.997	0.01	0.183	1 000
	BW 80	MCS0	0.997	0.02	0.183	1 000

8.7. 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	-
160	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 datarate and Antennas of operation were investigated and the worst case datarate results are reported.
   - Antenna Configuration : Ant1+Ant2(CDD)
   - HE20, HE40, HE80: MCS0
2. SM-G990U2, SM-G990U3/DS were tested and the worst case results are reported.
(Worst case : SM-G990U2)

Radiated test

1. 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
2. EUT Axis
   - Radiated Spurious Emissions : Y, Z
   - Radiated Restricted Band Edge : X
3. All data rate of operation were investigated and the worst case results are reported.
   (Worst case : MCS0)
4. All datarate and Antennas of operation were investigated and the worst case datarate results are reported.
   - Antenna Configuration : Ant1+Ant2(CDD)
   - HE20, HE40, HE80: MCS0
5. All position of loop antenna were investigated and the test result is a no critical peak found at all positions.
   - Position : Horizontal, Vertical, Parallel to the ground plane
6. All mode(Tone, RU Offset) of operation were investigated and the worst case configuration
   results are reported

Test	Tone	RU Offset
RSE	[HE20] WORST CASE(HIGHEST POWER) : 242T	61
	[HE40] WORST CASE(HIGHEST POWER) : 484T	65
	[HE80] WORST CASE(HIGHEST POWER) : 996T	67
	[HE20] ADDITIONAL TONE : 26T, 52T, 106T	0, 4, 8, 38, 53, 54
Band-Edge (UNII1,2A,2C)	[HE20] WORST CASE(HIGHEST POWER) : 242T	61
	[HE40] WORST CASE(HIGHEST POWER) : 484T	65
	[HE80] WORST CASE(HIGHEST POWER) : 996T	67
	[HE20] ADDITIONAL TONE : 26T, 52T,106T, SU [HE40] ADDITIONAL TONE : 26T, 52T, 106T, 242T, SU [HE80] ADDITIONAL TONE : 26T, 52T, 106T, 242T, 484T, SU	[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
Band-Edge (Straddle, UNII3)	[HE 20] Worst case(Highest Power) : 242T	61
	[HE 40] Worst case(Highest Power) : 484T	65
	[HE 80] Worst case(Highest Power) : 996T	67

7. SM-G990U2, SM-G990U3/DS were tested and the worst case results are reported.(Worst case : SM-G990U2)

Radiated test(DBS)

1. All modes of operation were investigated and the worst case configuration results are reported.
   - Mode : Stand alone, Stand alone + External accessories
   - Worstcase : Stand alone
2. EUT Axis
   - Radiated Spurious Emissions : X,Y
3. Test case

RSDB Scenario	Bluetooth Ant.1	2.4 GHz WiFi Ant.1	2.4 GHz WiFi Ant.2	5GHz WiFi Ant.1	5GHz WiFi Ant.2	Test case
Bluetooth + 2.4 GHz WiFi + 5GHz WiFi MIMO	On	-	On	On	On	-
2.4 GHz WiFi MIMO + 5GHz WiFi MIMO	-	On	On	On	On	Case 1

Non-DBS	5GHz WiFi Ant.1	5GHz WiFi Ant.2	Bluetooth Ant.1	Test case
5GHz WiFi MIMO + Bluetooth	On	On	On	Case 2

4. The following tables show the worst case configurations determined during testing.
   (Worst case: The lowest margin condition the channels and modes were selected for test.)

Test case	Description	2.4 GHz Emission	5 GHz Emission	Bluetooth Emission
1	Antenna	Ant All	Ant All	-
	Channel	1	165	-
	Data Rate	11 Mbps	MCS0	-
	Mode	802.11b	802.11ax(HE20) 52T RU38	-

Test case	Description	5 GHz Emission	Bluetooth Emission
2	Antenna	Ant All	Ant 1
	Channel	165	0
	Data Rate	MCS0	1 Mbps
	Mode	802.11ax(HE20)	GFSK

AC Power line Conducted Emissions

1. Please refer to the SM-G990U2 [UNII] Test Report.
2. SM-G990U2, SM-G990U3/DS were tested and the worst case results are reported.(Worst case : SM-G990U2)

9. SUMMARY OF TEST RESULTS

Test Description	FCC Part Section(s)	Test Limit	Test Condition	Test Result
26 dB Bandwidth	§15.407 (for Power Measurement)	N/A	Conducted	PASS
6 dB Bandwidth	§15.407(e)	>500 kHz (5725-5850 MHz)(UNII-3)		PASS
Maximum Conducted Output Power	§15.407(a)(1),(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
AC Conducted Emissions 150 kHz-30 MHz	15.207 15.407(b)(9)	<FCC 15.207 limits		PASS (Note.1)
Undesirable Emissions	§15.407(b) (1),(2),(3),(4)	<-27 dBm/MHz EIRP (UNII1, 2A, 2C) cf. Section 8.6 (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-G990U2[UNII] Test Report.

10. TEST RESULT

10.1 DUTY CYCLE

Mode	Tone	Worst Data rate (Mbps)	T_{on} (ms)	T_{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ax (HE20)	26	MCS0	2.597	2.614	0.993	0.03
	52	MCS0	2.592	2.609	0.993	0.03
	106	MCS0	2.435	2.452	0.993	0.03
	242	MCS0	2.389	2.407	0.993	0.03
802.11ax (HE40)	26	MCS0	2.592	2.609	0.993	0.03
	52	MCS0	2.592	2.609	0.993	0.03
	106	MCS0	2.437	2.452	0.994	0.03
	242	MCS0	2.389	2.404	0.994	0.03
	484	MCS0	2.384	2.399	0.994	0.03
802.11ax (HE80)	26	MCS0	2.594	2.612	0.993	0.03
	52	MCS0	2.594	2.609	0.994	0.03
	106	MCS0	2.437	2.452	0.994	0.03
	242	MCS0	2.389	2.404	0.994	0.03
	484	MCS0	2.384	2.399	0.994	0.03
	996	MCS0	2.419	2.435	0.994	0.03
802.11ax (SU)	BW 20	MCS0	5.457	5.472	0.997	0.01
	BW 40	MCS0	5.453	5.468	0.997	0.01
	BW 80	MCS0	5.453	5.472	0.997	0.02

Note:

1. Duty Cycle Factor = 10·log(1/Duty Cycle). where, Duty Cycle = T_{on} / T_{total}
2. 802.11 ax All Mode transmits continuously(Duty Cycle ≥ 98%)

10.2 26 dB BANDWIDTH& 99% BANDWIDTH

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

Straddle channel data were added in section 10.6.1.

10.2.1 Ant1

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	20.77	21.08	21.89	-	-
			Mid	18.62	19.64	-	23.02	20.96
			High	20.69	20.89	21.32	-	-
	5200	40	Low	20.53	21.22	21.42	-	-
			Mid	18.77	19.57	-	22.77	20.61
			High	20.73	20.84	21.23	-	-
	5240	48	Low	20.89	21.14	21.85	-	-
			Mid	18.58	19.53	-	22.81	20.76
			High	20.84	20.77	21.27	-	-
UNII 2A	5260	52	Low	20.46	21.45	21.97	-	-
			Mid	18.81	19.27	-	22.92	20.74
			High	20.55	20.53	21.24	-	-
	5280	56	Low	20.51	21.12	21.79	-	-
			Mid	18.76	19.45	-	22.69	20.92
			High	20.77	20.80	21.25	-	-
	5320	64	Low	20.49	21.01	21.87	-	-
			Mid	18.82	19.15	-	22.82	20.75
			High	20.86	20.85	21.28	-	-
UNII 2C	5500	100	Low	20.43	21.00	21.82	-	-
			Mid	18.65	19.50	-	22.92	20.66
			High	20.89	20.72	21.51	-	-
	5600	120	Low	20.77	20.95	21.94	-	-
			Mid	18.73	19.45	-	22.95	20.65
			High	20.79	20.90	21.24	-	-
	5720	144	Low	21.02	21.16	21.88	-	-
			Mid	18.37	19.43	-	22.73	20.91
			High	20.65	20.87	21.17	-	-
UNII 3	5745	149	Low	20.48	20.90	21.72	-	-
			Mid	18.91	19.12	-	22.75	20.70
			High	20.79	20.52	21.29	-	-
	5785	157	Low	20.79	21.20	21.95	-	-
			Mid	18.90	19.36	-	22.63	20.67
			High	20.74	20.84	21.50	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
	5825	165	Low	20.40	21.20	21.85	-	-
			Mid	18.93	19.66	-	22.97	20.92
			High	20.78	20.79	21.48	-	-

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	40.42	41.04	41.44	41.59	-	-
			Mid	38.02	38.19	39.06	-	44.19	40.23
			High	40.36	40.91	41.51	41.30	-	-
	5230	46	Low	40.32	41.12	41.38	41.58	-	-
			Mid	38.12	38.28	39.12	-	44.09	40.03
			High	40.20	41.06	42.17	41.20	-	-
UNII 2A	5270	54	Low	40.77	41.32	41.46	41.79	-	-
			Mid	37.99	38.19	39.43	-	44.35	40.09
			High	40.32	40.74	42.18	41.40	-	-
	5310	62	Low	40.41	41.14	41.25	41.82	-	-
			Mid	38.13	38.33	39.18	-	44.58	40.15
			High	40.51	40.96	41.56	41.63	-	-
UNII 2C	5510	102	Low	40.70	40.95	41.13	41.94	-	-
			Mid	38.03	38.48	38.93	-	44.12	40.22
			High	40.36	41.02	42.03	41.65	-	-
	5590	118	Low	40.50	41.13	41.44	41.92	-	-
			Mid	38.09	38.41	39.40	-	44.42	40.14
			High	40.66	40.92	41.38	41.42	-	-
	5710	142	Low	40.51	41.06	41.53	41.91	-	-
			Mid	38.12	38.52	39.29	-	44.04	40.01
			High	40.34	41.00	41.28	41.59	-	-
UNII 3	5755	151	Low	40.69	40.99	41.33	41.90	-	-
			Mid	37.97	38.34	39.46	-	44.51	40.16
			High	40.43	41.12	41.57	41.07	-	-
	5795	159	Low	40.18	41.03	41.30	41.94	-	-
			Mid	38.14	38.45	39.15	-	44.29	40.14
			High	40.59	40.92	42.34	41.56	-	-

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	81.84	84.26	84.49	84.43	87.19	-	-
			Mid	78.58	78.73	79.63	80.91	-	89.29	81.57
			High	81.11	83.06	83.26	82.97	85.48	-	-
UNII 2A	5290	58	Low	82.85	84.00	84.59	84.33	87.07	-	-
			Mid	78.60	78.42	79.80	81.10	-	88.58	81.19
			High	81.07	83.58	83.27	83.37	86.14	-	-
UNII 2C	5530	106	Low	82.54	84.11	84.50	83.74	86.00	-	-
			Mid	78.51	78.03	79.75	80.88	-	88.71	81.17
			High	81.29	83.09	83.53	83.40	85.63	-	-
	5610	122	Low	82.97	82.77	84.85	84.47	87.04	-	-
			Mid	78.26	78.66	79.69	81.20	-	89.07	81.45
			High	81.29	82.83	83.46	83.33	86.16	-	-
	5690	138	Low	82.44	83.26	83.71	83.57	86.82	-	-
			Mid	78.54	78.58	80.17	81.36	-	89.55	81.23
			High	81.41	82.61	83.30	83.11	85.47	-	-
UNII 3	5775	155	Low	81.93	84.22	84.86	84.80	86.77	-	-
			Mid	78.65	78.56	79.43	81.36	-	88.59	81.76
			High	81.03	83.42	83.19	83.62	86.34	-	-

99% BANDWIDTH

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	99% BANDWIDTH (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 1	5180	36	Low	18.607	18.427	17.924	-	-
			Mid	17.065	17.081	-	19.085	18.807
			High	18.698	18.267	18.363	-	-
	5200	40	Low	18.550	18.354	18.399	-	-
			Mid	17.115	17.080	-	19.112	18.814
			High	18.699	18.107	18.366	-	-
	5240	48	Low	18.658	18.387	18.214	-	-
			Mid	17.157	17.223	-	19.091	18.798
			High	18.696	18.298	18.312	-	-
UNII 2A	5260	52	Low	18.591	18.414	18.410	-	-
			Mid	17.171	17.006	-	19.126	18.809
			High	18.515	18.253	18.383	-	-
	5280	56	Low	18.583	18.359	18.283	-	-
			Mid	17.190	17.098	-	19.100	18.812
			High	18.623	18.248	18.306	-	-
	5320	64	Low	18.576	18.345	18.328	-	-
			Mid	17.157	17.107	-	19.076	18.805
			High	18.723	18.270	18.355	-	-
UNII 2C	5500	100	Low	18.563	18.378	18.330	-	-
			Mid	17.165	17.135	-	19.117	18.802
			High	18.635	18.275	18.315	-	-
	5600	120	Low	18.613	18.293	18.340	-	-
			Mid	17.228	17.134	-	19.123	18.813
			High	18.558	18.239	18.392	-	-
	5720	144	Low	18.772	18.329	18.270	-	-
			Mid	17.160	17.058	-	19.081	18.806
			High	18.717	18.338	18.334	-	-
UNII 3	5745	149	Low	18.481	18.354	18.296	-	-
			Mid	17.202	17.103	-	19.117	18.801
			High	18.604	18.321	18.312	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	99% BANDWIDTH (MHz)				
				26 T	52 T	106 T	242 T	SU
	5785	157	Low	18.589	18.274	18.293	-	-
			Mid	17.147	17.073	-	19.104	18.801
			High	18.707	18.302	18.310	-	-
	5825	165	Low	18.617	18.369	18.388	-	-
			Mid	17.147	17.085	-	19.072	18.806
			High	18.620	18.290	18.314	-	-

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	99% BANDWIDTH(MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 1	5190	38	Low	38.132	37.723	37.444	37.307	-	-
			Mid	36.225	36.211	36.166	-	38.009	37.484
			High	38.191	37.733	37.629	37.322	-	-
	5230	46	Low	37.745	37.830	37.364	37.312	-	-
			Mid	36.018	36.219	36.199	-	37.981	37.498
			High	37.995	37.805	37.506	37.113	-	-
UNII 2A	5270	54	Low	38.383	37.900	37.371	37.329	-	-
			Mid	35.661	35.918	36.072	-	37.980	37.438
			High	38.057	37.509	37.646	37.363	-	-
	5310	62	Low	38.097	37.850	37.386	37.374	-	-
			Mid	36.134	36.287	36.329	-	37.995	37.485
			High	38.232	37.853	37.500	37.311	-	-
UNII 2C	5510	102	Low	38.048	37.663	37.456	37.359	-	-
			Mid	36.008	36.333	36.314	-	37.957	37.428
			High	38.173	37.860	37.664	37.288	-	-
	5590	118	Low	38.007	37.340	37.459	37.267	-	-
			Mid	36.207	36.061	36.273	-	38.003	37.512
			High	38.236	37.731	37.705	37.299	-	-
	5710	142	Low	38.066	37.787	37.445	37.299	-	-
			Mid	36.147	36.297	36.250	-	37.952	37.505
			High	38.203	37.936	37.511	37.354	-	-
UNII 3	5755	151	Low	38.185	37.800	37.428	37.371	-	-
			Mid	35.936	36.056	36.357	-	37.978	37.454
			High	38.111	37.847	37.676	37.330	-	-
	5795	159	Low	38.160	37.965	37.445	37.293	-	-
			Mid	36.029	36.219	36.131	-	38.000	37.452
			High	38.271	37.801	37.282	37.170	-	-

802.11ax(HE80)

HE80	Freq. [MHz]	Channel No.	RU Index	99% BANDWIDTH (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1	5210	42	Low	78.617	78.446	77.622	77.168	76.992	-	-
			Mid	75.021	74.496	74.779	74.715	-	77.665	76.620
			High	78.569	78.005	77.203	76.693	76.610	-	-
UNII 2A	5290	58	Low	79.119	78.465	77.880	77.304	76.924	-	-
			Mid	74.845	74.561	74.995	75.031	-	77.730	76.633
			High	78.325	78.056	77.574	76.743	76.567	-	-
UNII 2C	5530	106	Low	78.915	78.150	77.611	77.153	76.749	-	-
			Mid	74.914	74.115	74.842	75.088	-	77.719	76.575
			High	78.653	77.967	77.198	76.879	76.726	-	-
	5610	122	Low	78.634	78.286	77.318	77.332	76.643	-	-
			Mid	74.577	74.350	75.028	75.121	-	77.743	76.579
			High	78.602	78.017	77.536	76.865	76.771	-	-
	5690	138	Low	78.790	78.519	77.550	77.339	76.756	-	-
			Mid	74.792	74.459	75.071	75.066	-	77.785	76.777
			High	78.519	78.074	77.523	76.954	76.806	-	-
UNII 3	5775	155	Low	78.588	78.667	77.891	77.306	76.726	-	-
			Mid	74.762	74.666	74.532	75.141	-	77.841	76.618
			High	78.466	78.256	77.500	76.919	76.733	-	-

10.2.2 Ant2

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	20.57	21.21	21.72	-	-
			Mid	18.75	19.54	-	**22.74**	20.82
			High	20.81	20.77	21.27	-	-
	5200	40	Low	20.58	21.10	21.97	-	-
			Mid	18.68	19.30	-	**22.90**	20.90
			High	20.82	20.70	21.23	-	-
	5240	48	Low	20.82	21.18	21.97	-	-
			Mid	18.79	19.45	-	**22.77**	20.87
			High	20.78	20.67	21.32	-	-
UNII 2A	5260	52	Low	20.78	21.13	22.03	-	-
			Mid	18.91	19.57	-	**22.79**	20.81
			High	20.88	20.70	21.20	-	-
	5280	56	Low	20.68	21.12	21.84	-	-
			Mid	18.76	19.13	-	**22.91**	20.72
			High	20.77	20.81	21.19	-	-
	5320	64	Low	20.77	21.03	21.93	-	-
			Mid	18.64	19.53	-	**22.74**	21.03
			High	20.48	20.72	21.36	-	-
UNII 2C	5500	100	Low	20.60	21.17	21.84	-	-
			Mid	18.73	19.50	-	**22.72**	20.92
			High	20.77	20.80	21.43	-	-
	5600	120	Low	20.74	21.16	22.02	-	-
			Mid	18.87	19.42	-	**22.78**	20.61
			High	20.58	20.82	21.51	-	-
	5720	144	Low	20.66	21.65	21.50	-	-
			Mid	18.90	19.50	-	**22.73**	20.81
			High	20.60	20.94	21.43	-	-
UNII 3	5745	149	Low	20.63	21.14	22.02	-	-
			Mid	18.65	19.55	-	**22.68**	21.01
			High	20.87	20.99	21.27	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
	5785	157	Low	20.78	21.06	21.71	-	-
			Mid	18.67	19.57	-	**22.76**	20.86
			High	20.75	20.82	21.29	-	-
	5825	165	Low	20.74	21.16	21.93	-	-
			Mid	18.59	19.62	-	**22.77**	20.81
			High	20.82	20.84	21.37	-	-

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	40.50	41.13	41.41	41.47	-	-
			Mid	38.17	38.40	39.26	-	**43.71**	40.03
			High	40.55	40.94	42.11	41.36	-	-
	5230	46	Low	40.41	41.10	41.43	41.35	-	-
			Mid	38.06	38.38	39.34	-	**43.83**	40.05
			High	39.97	41.05	41.76	41.20	-	-
UNII 2A	5270	54	Low	40.38	41.10	41.11	41.82	-	-
			Mid	38.03	38.37	39.49	-	**44.09**	40.01
			High	40.44	40.63	41.73	41.31	-	-
	5310	62	Low	40.22	40.89	41.33	41.85	-	-
			Mid	38.18	38.22	38.79	-	**43.90**	39.98
			High	40.20	41.17	41.86	41.52	-	-
UNII 2C	5510	102	Low	40.76	41.19	41.23	41.60	-	-
			Mid	38.12	38.24	39.23	-	**43.75**	39.97
			High	40.71	40.86	41.58	41.52	-	-
	5590	118	Low	40.35	40.94	41.21	41.68	-	-
			Mid	38.15	38.28	39.17	-	**43.91**	40.02
			High	40.38	40.81	41.60	41.50	-	-
	5710	142	Low	40.21	41.06	41.37	41.68	-	-
			Mid	38.12	38.24	38.86	-	**44.10**	39.85
			High	40.89	40.84	41.61	41.64	-	-
UNII 3	5755	151	Low	40.19	40.71	41.28	41.90	-	-
			Mid	38.14	38.47	38.98	-	**43.99**	40.00
			High	40.51	40.89	41.76	41.63	-	-
	5795	159	Low	40.12	41.02	41.45	41.72	-	-
			Mid	38.12	38.44	39.22	-	**44.20**	40.03
			High	40.13	40.98	41.48	41.48	-	-

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	81.95	83.83	84.72	84.00	87.31	-	-
			Mid	78.29	77.51	79.73	81.39	-	**89.75**	80.87
			High	81.37	83.32	83.59	83.47	84.72	-	-
UNII 2A	5290	58	Low	82.73	82.84	84.55	82.99	86.82	-	-
			Mid	78.52	78.84	79.77	80.94	-	**89.94**	81.25
			High	81.53	83.25	83.01	83.38	84.49	-	-
UNII 2C	5530	106	Low	82.08	83.94	84.65	83.84	87.13	-	-
			Mid	78.29	78.65	79.51	81.00	-	**89.27**	81.06
			High	81.33	83.48	83.25	83.67	85.64	-	-
	5610	122	Low	82.75	83.96	83.89	84.73	87.08	-	-
			Mid	78.16	78.68	79.89	81.24	-	**90.04**	81.21
			High	81.20	82.77	83.54	83.37	84.71	-	-
	5690	138	Low	82.51	83.80	84.79	84.11	86.96	-	-
			Mid	78.46	78.64	79.90	80.91	-	**90.13**	80.93
			High	81.99	83.31	83.33	83.29	84.99	-	-
UNII 3	5775	155	Low	82.02	84.39	84.60	85.00	86.79	-	-
			Mid	78.59	78.62	79.57	80.73	-	**88.31**	81.14
			High	81.09	83.70	83.43	83.64	85.65	-	-

99% BANDWIDTH

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	99% BANDWIDTH (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 1	5180	36	Low	18.520	18.374	18.325	-	-
			Mid	17.173	17.209	-	19.095	18.820
			High	18.662	18.215	18.305	-	-
	5200	40	Low	18.615	18.347	18.402	-	-
			Mid	17.182	17.167	-	19.095	18.798
			High	18.533	18.241	18.368	-	-
	5240	48	Low	18.611	18.278	18.308	-	-
			Mid	17.067	17.210	-	19.063	18.819
			High	18.658	18.239	18.291	-	-
UNII 2A	5260	52	Low	18.621	18.396	18.389	-	-
			Mid	17.202	17.170	-	19.088	18.808
			High	18.660	18.263	18.334	-	-
	5280	56	Low	18.584	18.379	18.303	-	-
			Mid	17.135	17.114	-	19.089	18.830
			High	18.629	18.224	18.223	-	-
	5320	64	Low	18.569	18.341	18.313	-	-
			Mid	17.166	17.158	-	19.067	18.812
			High	18.732	18.320	18.321	-	-
UNII 2C	5500	100	Low	18.555	18.250	18.305	-	-
			Mid	17.235	17.141	-	19.087	18.804
			High	18.663	18.295	18.325	-	-
	5600	120	Low	18.562	18.249	18.310	-	-
			Mid	17.175	17.149	-	19.079	18.802
			High	18.583	18.217	18.375	-	-
	5720	144	Low	18.568	18.421	18.298	-	-
			Mid	17.103	17.087	-	19.091	18.785
			High	18.725	18.242	18.230	-	-
UNII 3	5745	149	Low	18.522	18.372	18.298	-	-
			Mid	17.185	17.006	-	19.087	18.811
			High	18.656	18.310	18.327	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	99% BANDWIDTH (MHz)				
				26 T	52 T	106 T	242 T	SU
	5785	157	Low	18.603	18.349	18.291	-	-
			Mid	16.954	17.159	-	19.079	18.791
			High	18.633	18.272	18.205	-	-
	5825	165	Low	18.554	18.392	18.298	-	-
			Mid	17.129	17.109	-	19.077	18.798
			High	18.680	18.308	18.300	-	-

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	99% BANDWIDTH(MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 1	5190	38	Low	38.055	37.900	37.430	37.387	-	-
			Mid	35.999	36.197	36.362	-	37.960	37.475
			High	37.999	37.797	37.531	37.264	-	-
	5230	46	Low	38.197	37.741	37.346	37.331	-	-
			Mid	36.088	36.176	36.166	-	37.948	37.481
			High	38.019	37.629	37.453	37.229	-	-
UNII 2A	5270	54	Low	38.048	37.803	37.467	37.318	-	-
			Mid	36.116	36.132	36.385	-	37.973	37.498
			High	38.073	37.766	37.544	37.323	-	-
	5310	62	Low	37.981	37.809	37.426	37.306	-	-
			Mid	36.145	35.982	36.392	-	37.956	37.454
			High	38.116	37.756	37.341	37.331	-	-
UNII 2C	5510	102	Low	38.130	37.797	37.373	37.191	-	-
			Mid	36.199	35.572	36.303	-	37.961	37.447
			High	38.226	37.729	37.626	37.408	-	-
	5590	118	Low	38.038	37.739	37.523	37.309	-	-
			Mid	36.197	36.131	36.243	-	37.959	37.435
			High	37.915	37.654	37.597	37.384	-	-
	5710	142	Low	37.998	37.710	37.408	37.337	-	-
			Mid	36.048	35.981	36.171	-	37.965	37.488
			High	38.306	37.834	37.495	37.412	-	-
UNII 3	5755	151	Low	38.029	37.787	37.378	37.240	-	-
			Mid	36.049	36.033	36.127	-	37.940	37.438
			High	38.259	37.846	37.719	37.424	-	-
	5795	159	Low	37.978	37.823	37.421	37.285	-	-
			Mid	35.991	36.099	36.126	-	37.980	37.462
			High	38.083	37.799	37.563	37.421	-	-

802.11ax(HE80)

HE80	Freq. [MHz]	Channel No.	RU Index	99% BANDWIDTH (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1	5210	42	Low	79.140	78.380	78.062	77.164	76.979	-	-
			Mid	74.721	73.167	74.693	74.608	-	77.772	76.491
			High	78.509	77.990	77.470	76.672	76.537	-	-
UNII 2A	5290	58	Low	78.815	78.127	77.910	77.220	76.858	-	-
			Mid	74.864	74.656	74.894	74.900	-	77.729	76.659
			High	78.784	78.066	77.437	76.828	76.603	-	-
UNII 2C	5530	106	Low	78.896	78.592	77.774	76.926	76.874	-	-
			Mid	74.299	74.508	74.884	75.035	-	77.817	76.565
			High	78.820	78.000	77.416	76.687	76.657	-	-
	5610	122	Low	79.066	78.390	77.825	77.230	76.884	-	-
			Mid	74.792	74.561	74.957	75.049	-	77.771	76.656
			High	78.650	78.077	77.400	76.765	76.534	-	-
	5690	138	Low	79.106	78.219	77.808	76.978	76.769	-	-
			Mid	74.711	74.583	74.890	74.892	-	77.721	76.589
			High	78.921	77.990	77.489	76.909	76.532	-	-
UNII 3	5775	155	Low	78.677	78.261	77.851	77.355	76.806	-	-
			Mid	74.925	74.636	75.000	75.005	-	77.791	76.644
			High	78.500	78.046	77.403	76.967	76.717	-	-

10.3 6 dB BANDWIDTH

Limit : > 0.5 MHz

10.3.1 Ant1

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	**2.143**	17.09	17.15	-	-
			Mid	2.696	15.04	-	19.08	17.17
			High	2.149	17.04	17.16	-	-
	5785	157	Low	2.134	17.10	18.14	-	-
			Mid	2.705	15.09	-	19.07	17.53
			High	**2.127**	17.05	17.16	-	-
	5825	165	Low	2.130	17.12	15.91	-	-
			Mid	2.714	15.10	-	19.07	15.22
			High	**2.120**	17.04	17.10	-	-

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	**2.145**	4.195	36.60	36.74	-	-
			Mid	2.150	4.141	35.09	-	38.19	35.16
			High	2.181	4.180	36.61	36.89	-	-
	5795	159	Low	**2.124**	4.213	36.62	37.67	-	-
			Mid	2.165	4.138	35.08	-	38.22	35.18
			High	2.166	4.159	36.56	36.91	-	-

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	**2.261**	4.284	8.474	76.66	77.83	-	-
			Mid	2.846	4.298	8.435	75.23	-	78.20	73.98
			High	2.280	4.344	8.455	75.50	76.92	-	-

10.3.2 Ant2

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	2.122	17.10	17.16	-	-
			Mid	2.690	13.00	-	19.07	17.91
			High	**2.108**	17.06	17.15	-	-
	5785	157	Low	2.131	17.10	17.16	-	-
			Mid	2.700	13.82	-	19.10	16.39
			High	**2.118**	17.05	17.16	-	-
	5825	165	Low	2.141	17.09	17.12	-	-
			Mid	2.702	15.11	-	19.09	16.49
			High	**2.087**	17.05	17.11	-	-

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	2.151	4.193	36.60	36.72	-	-
			Mid	2.160	4.165	35.07	-	38.19	35.48
			High	**2.142**	4.150	35.37	36.75	-	-
	5795	159	Low	2.160	4.191	36.54	36.77	-	-
			Mid	2.174	4.144	33.87	-	38.16	35.15
			High	**2.139**	4.151	36.58	36.89	-	-

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	**2.275**	4.328	8.451	76.67	76.95	-	-
			Mid	2.807	4.208	8.436	73.85	-	78.20	72.70
			High	2.289	4.332	8.461	76.84	76.88	-	-

10.4 OUTPUT POWER MEASUREMENT

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

Straddle channel data were added in section 10.6.3.

10.4.1 Ant 1

Note:

1. Reporting for MIMO calculation

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)				
					26 T	52 T	106 T	242 T	SU
Max Output Power (dBm)	UNII 1	5180	36	Low	9.56	12.58	14.09	-	-
				Mid	9.70	12.93	-	15.04	15.28
				High	9.65	12.81	14.20	-	-
		5200	40	Low	9.50	12.71	14.14	-	-
				Mid	9.74	12.86	-	15.03	15.26
				High	9.63	12.77	14.16	-	-
		5240	48	Low	9.63	12.77	14.33	-	-
				Mid	9.82	12.89	-	15.36	15.50
				High	9.66	12.76	14.35	-	-
	UNII 2a	5260	52	Low	9.73	12.88	14.44	-	-
				Mid	9.92	13.05	-	15.37	15.59
				High	9.78	12.89	14.42	-	-
		5280	56	Low	9.58	12.74	14.29	-	-
				Mid	9.73	12.88	-	15.24	15.48
				High	9.56	12.71	14.25	-	-
		5320	64	Low	10.13	12.33	14.35	-	-
				Mid	10.38	12.45	-	15.43	15.82
				High	10.05	12.27	14.31	-	-
	UNII 2c	5500	100	Low	9.77	12.43	14.43	-	-
				Mid	9.96	12.49	-	15.42	15.65
				High	9.75	12.30	14.34	-	-
		5600	120	Low	9.59	12.39	14.29	-	-
				Mid	9.68	12.52	-	15.06	15.39
				High	9.56	12.36	14.26	-	-
		5720	144	Low	9.57	12.43	14.33	-	-
				Mid	9.70	12.55	-	15.20	15.44
				High	9.46	12.30	14.26	-	-

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)				
					26 T	52 T	106 T	242 T	SU
	UNII 3	5745	149	Low	10.03	12.55	14.51	-	-
				Mid	10.07	12.70	-	15.57	15.88
				High	9.90	12.43	14.46	-	-
		5785	157	Low	10.01	12.55	14.57	-	-
				Mid	10.08	12.66	-	15.51	15.83
				High	9.80	12.38	14.50	-	-
		5825	165	Low	10.11	12.63	14.55	-	-
				Mid	10.29	12.75	-	15.62	15.89
				High	9.84	12.53	14.49	-	-

HE40		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)					
					26 T	52 T	106 T	242 T	484 T	SU
Max Output Power (dBm)	UNII 1	5190	38	Low	9.36	10.79	12.24	12.96	-	-
				Mid	9.93	11.56	12.62	-	13.08	12.93
				High	9.63	11.07	12.49	13.11	-	-
		5230	46	Low	9.46	10.96	12.49	13.06	-	-
				Mid	10.08	11.53	12.73	-	13.17	13.01
				High	9.62	11.09	12.55	13.11	-	-
	UNII 2a	5270	54	Low	9.56	11.12	12.50	13.18	-	-
				Mid	10.10	11.55	12.85	-	13.22	13.06
				High	9.55	11.19	12.55	13.17	-	-
		5310	62	Low	10.03	11.53	12.17	12.81	-	-
				Mid	10.49	11.90	12.50	-	12.75	12.63
				High	10.04	11.45	12.12	12.70	-	-
	UNII 2c	5510	102	Low	9.73	11.29	12.30	12.83	-	-
				Mid	10.18	11.65	12.42	-	12.84	12.76
				High	9.63	11.22	12.13	12.75	-	-
		5590	118	Low	9.69	11.13	12.39	12.94	-	-
				Mid	10.16	11.50	12.65	-	13.00	12.83
				High	9.62	11.06	12.22	12.86	-	-
		5710	142	Low	9.66	11.25	12.12	13.02	-	-
				Mid	9.98	11.44	12.33	-	12.97	12.83
				High	9.36	10.90	11.89	12.81	-	-
	UNII 3	5755	151	Low	9.80	11.77	12.39	12.92	-	-
				Mid	9.98	11.89	12.42	-	12.88	12.71
				High	9.29	11.54	12.07	12.63	-	-
		5795	159	Low	9.73	11.25	12.14	12.64	-	-
				Mid	9.86	11.32	12.16	-	12.51	12.39
				High	9.36	10.88	11.75	12.37	-	-

HE80		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output Power (dBm)	UNII 1	5210	42	Low	9.55	10.00	10.94	11.47	11.66	-	-
				Mid	10.31	10.78	11.65	11.84	-	11.79	11.66
				High	10.12	10.60	11.42	11.87	11.91	-	-
	UNII 2A	5290	58	Low	9.82	10.39	11.44	11.94	12.05	-	-
				Mid	10.28	10.75	11.78	12.11	-	12.02	11.88
				High	9.85	10.40	11.42	11.88	12.03	-	-
	UNII 2C	5530	106	Low	10.02	10.58	11.55	12.12	12.14	-	-
				Mid	10.33	10.79	11.69	12.25	-	12.12	12.01
				High	9.90	10.32	11.28	11.99	12.05	-	-
		5610	122	Low	10.01	10.48	11.15	11.95	12.01	-	-
				Mid	10.28	10.64	11.21	12.04	-	11.90	11.83
				High	9.56	10.04	11.18	11.61	11.84	-	-
		5690	138	Low	10.21	10.62	11.66	12.19	12.19	-	-
				Mid	10.42	10.78	11.73	12.27	-	12.07	11.96
				High	9.66	10.11	11.20	11.81	11.90	-	-
	UNII 3	5775	155	Low	10.50	10.89	11.87	12.03	12.01	-	-
				Mid	10.49	10.88	11.81	12.02	-	11.83	11.68
				High	9.93	10.32	11.37	11.39	11.60	-	-

10.4.2 Ant 2

Note:

1. Reporting for MIMO calculation

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)				
					26 T	52 T	106 T	242 T	SU
Max Output Power (dBm)	UNII 1	5180	36	Low	9.74	12.08	14.18	-	-
				Mid	9.93	12.30	-	15.33	15.62
				High	9.92	12.33	14.35	-	-
		5200	40	Low	9.70	12.04	14.12	-	-
				Mid	9.86	12.24	-	15.21	15.43
				High	9.84	12.26	14.29	-	-
		5240	48	Low	10.00	12.03	14.33	-	-
				Mid	10.19	12.25	-	14.36	14.79
				High	10.10	12.15	14.39	-	-
	UNII 2a	5260	52	Low	10.20	12.54	14.54	-	-
				Mid	10.40	12.71	-	15.65	15.88
				High	10.27	12.63	14.61	-	-
		5280	56	Low	9.89	12.24	14.27	-	-
				Mid	10.08	12.43	-	15.33	15.57
				High	9.94	12.33	14.31	-	-
		5320	64	Low	10.17	12.34	14.52	-	-
				Mid	10.34	12.50	-	15.59	15.89
				High	10.27	12.39	14.59	-	-
	UNII 2c	5500	100	Low	9.79	11.98	14.22	-	-
				Mid	9.92	12.09	-	15.20	15.49
				High	9.77	11.96	14.21	-	-
		5600	120	Low	8.75	11.91	14.06	-	-
				Mid	8.94	12.10	-	15.13	15.42
				High	8.87	11.95	14.11	-	-
		5720	144	Low	9.50	12.77	14.85	-	-
				Mid	9.65	12.92	-	15.84	15.90
				High	9.44	12.73	14.80	-	-
	UNII 3	5745	149	Low	9.56	13.05	14.92	-	-
				Mid	9.64	13.10	-	15.83	15.40
				High	9.36	12.84	14.89	-	-
		5785	157	Low	9.56	12.60	14.76	-	-

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)				
					26 T	52 T	106 T	242 T	SU
				Mid	9.58	12.65	-	15.36	14.99
				High	9.15	12.26	14.61	-	-
		5825	165	Low	9.45	12.81	14.79	-	-
				Mid	9.42	12.86	-	15.51	15.11
				High	9.28	12.74	14.71	-	-

HE40		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)					
					26 T	52 T	106 T	242 T	484 T	SU
Max Output Power (dBm)	UNII 1	5190	38	Low	9.61	10.88	11.83	12.45	-	-
				Mid	10.33	11.56	12.25	-	12.65	12.59
				High	10.05	11.38	12.13	12.72	-	-
		5230	46	Low	9.84	11.32	11.84	12.46	-	-
				Mid	10.54	11.90	12.25	-	12.62	12.54
				High	10.16	11.69	12.11	12.65	-	-
	UNII 2a	5270	54	Low	9.94	11.42	12.11	12.82	-	-
				Mid	10.50	11.89	12.45	-	12.89	12.85
				High	10.10	11.61	12.21	12.88	-	-
		5310	62	Low	10.10	10.84	12.15	12.83	-	-
				Mid	10.63	11.57	12.45	-	12.92	12.83
				High	10.24	11.17	12.23	12.86	-	-
	UNII 2c	5510	102	Low	9.63	10.56	11.66	12.28	-	-
				Mid	10.14	11.04	11.87	-	12.30	12.25
				High	9.70	10.68	11.69	12.27	-	-
		5590	118	Low	8.35	10.44	11.61	12.29	-	-
				Mid	8.92	11.03	11.97	-	12.42	12.38
				High	8.59	10.66	11.78	12.38	-	-
		5710	142	Low	9.32	11.10	12.77	13.26	-	-
				Mid	9.71	11.58	12.89	-	13.30	13.21
				High	9.21	11.09	12.70	13.24	-	-
	UNII 3	5755	151	Low	9.23	11.19	12.76	13.35	-	-
				Mid	9.66	11.51	12.89	-	13.36	13.29
				High	9.04	10.99	12.66	13.33	-	-
		5795	159	Low	9.53	10.93	12.48	13.17	-	-
				Mid	9.88	11.23	12.66	-	13.15	13.06
				High	9.43	10.88	12.31	13.03	-	-

HE80		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output Power (dBm)	UNII 1	5210	42	Low	9.68	10.16	11.26	11.96	12.14	-	-
				Mid	10.41	10.86	11.89	12.34	-	12.35	12.24
				High	10.54	10.92	11.91	12.41	12.39	-	-
	UNII 2A	5290	58	Low	9.87	10.35	11.40	11.53	11.66	-	-
				Mid	10.44	10.87	11.67	11.77	-	11.68	11.59
				High	10.09	10.63	11.60	11.65	11.72	-	-
	UNII 2C	5530	106	Low	9.62	10.16	10.64	11.05	11.21	-	-
				Mid	10.04	10.58	11.00	11.29	-	11.19	11.06
				High	9.59	10.06	10.61	11.05	11.18	-	-
		5610	122	Low	8.54	9.03	10.02	10.66	10.84	-	-
				Mid	9.07	9.65	10.56	11.02	-	11.02	10.78
				High	8.81	9.43	10.25	11.05	11.07	-	-
		5690	138	Low	9.58	10.23	11.33	12.01	12.18	-	-
				Mid	10.11	10.72	11.77	12.31	-	12.19	12.03
				High	9.66	10.31	11.52	12.09	12.21	-	-
	UNII 3	5775	155	Low	10.00	10.55	11.44	12.04	12.05	-	-
				Mid	10.24	10.75	11.55	12.09	-	11.98	11.82
				High	9.86	10.35	11.09	11.78	11.88	-	-

10.4.3 MIMO (Ant 1 + Ant 2)

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Average Power(dBm)				
					26 T	52 T	106 T	242 T	SU
Max Output Power (dBm)	UNII 1	5180	36	Low	12.66	15.35	17.15	-	-
				Mid	12.83	15.64	-	18.20	18.46
				High	12.80	15.59	17.29	-	-
		5200	40	Low	12.61	15.40	17.14	-	-
				Mid	12.81	15.57	-	18.13	18.36
				High	12.75	15.53	17.24	-	-
		5240	48	Low	12.83	15.43	17.34	-	-
				Mid	13.02	15.59	-	17.90	18.17
				High	12.90	15.48	17.38	-	-
	UNII 2A	5260	52	Low	12.98	15.72	17.50	-	-
				Mid	13.18	15.89	-	18.52	18.75
				High	13.04	15.77	17.53	-	-
		5280	56	Low	12.75	15.51	17.29	-	-
				Mid	12.92	15.67	-	18.30	18.54
				High	12.76	15.53	17.29	-	-
		5320	64	Low	13.16	15.35	17.45	-	-
				Mid	13.37	15.49	-	18.52	18.87
				High	13.17	15.34	17.46	-	-
	UNII 2C	5500	100	Low	12.79	15.22	17.34	-	-
				Mid	12.95	15.30	-	18.32	18.58
				High	12.77	15.14	17.29	-	-
		5600	120	Low	12.20	15.17	17.19	-	-
				Mid	12.34	15.33	-	18.11	18.42
				High	12.24	15.17	17.20	-	-
		5720	144	Low	12.55	15.61	17.61	-	-
				Mid	12.69	15.75	-	18.54	18.69
				High	12.46	15.53	17.55	-	-
	UNII 3	5745	149	Low	12.81	15.82	17.73	-	-
				Mid	12.87	15.91	-	18.71	18.66
				High	12.65	15.65	17.69	-	-
		5785	157	Low	12.80	15.59	17.67	-	-
				Mid	12.85	15.67	-	18.45	18.44
				High	12.50	15.33	17.57	-	-
		5825	165	Low	12.80	15.73	17.68	-	-
				Mid	12.89	15.82	-	18.58	18.53
				High	12.58	15.65	17.61	-	-

HE40		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)					
					26 T	52 T	106 T	242 T	484 T	SU
Max Output Power (dBm)	UNII 1	5190	38	Low	12.50	13.85	15.05	15.72	-	-
				Mid	13.14	14.57	15.45	-	15.88	15.77
				High	12.86	14.24	15.32	15.93	-	-
		5230	46	Low	12.66	14.15	15.19	15.78	-	-
				Mid	13.33	14.73	15.51	-	15.91	15.79
				High	12.91	14.41	15.35	15.90	-	-
	UNII 2A	5270	54	Low	12.76	14.28	15.32	16.01	-	-
				Mid	13.31	14.73	15.66	-	16.07	15.97
				High	12.84	14.42	15.39	16.04	-	-
		5310	62	Low	13.08	14.21	15.17	15.83	-	-
				Mid	13.57	14.75	15.49	-	15.85	15.74
				High	13.15	14.32	15.19	15.79	-	-
	UNII 2C	5510	102	Low	12.69	13.95	15.00	15.57	-	-
				Mid	13.17	14.37	15.16	-	15.59	15.52
				High	12.68	13.97	14.93	15.53	-	-
		5590	118	Low	12.08	13.81	15.03	15.64	-	-
				Mid	12.59	14.28	15.33	-	15.73	15.62
				High	12.15	13.87	15.02	15.64	-	-
		5710	142	Low	12.50	14.19	15.47	16.15	-	-
				Mid	12.86	14.52	15.63	-	16.15	16.03
				High	12.30	14.01	15.32	16.04	-	-
	UNII 3	5755	151	Low	12.53	14.50	15.59	16.15	-	-
				Mid	12.83	14.71	15.67	-	16.14	16.02
				High	12.18	14.28	15.39	16.00	-	-
		5795	159	Low	12.64	14.10	15.32	15.92	-	-
				Mid	12.88	14.29	15.43	-	15.85	15.75
				High	12.41	13.89	15.05	15.72	-	-

HE80		Frequency [MHz]	Channel No.	RU Index	Max. Average Power (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output Power (dBm)	UNII 1	5210	42	Low	12.63	13.09	14.11	14.73	14.92	-	-
				Mid	13.37	13.83	14.78	15.11	-	15.09	14.97
				High	13.35	13.77	14.68	15.16	15.17	-	-
	UNII 2A	5290	58	Low	12.86	13.38	14.43	14.75	14.87	-	-
				Mid	13.37	13.82	14.74	14.95	-	14.86	14.75
				High	12.98	13.53	14.52	14.78	14.89	-	-
	UNII 2C	5530	106	Low	12.83	13.39	14.13	14.63	14.71	-	-
				Mid	13.20	13.70	14.37	14.81	-	14.69	14.57
				High	12.76	13.20	13.97	14.56	14.65	-	-
		5610	122	Low	12.35	12.83	13.63	14.36	14.47	-	-
				Mid	12.73	13.18	13.91	14.57	-	14.49	14.35
				High	12.21	12.76	13.75	14.35	14.48	-	-
		5690	138	Low	12.92	13.44	14.51	15.11	15.20	-	-
				Mid	13.28	13.76	14.76	15.30	-	15.14	15.01
				High	12.67	13.22	14.37	14.96	15.07	-	-
	UNII 3	5775	155	Low	13.27	13.73	14.67	15.05	15.04	-	-
				Mid	13.38	13.83	14.69	15.07	-	14.92	14.76
				High	12.91	13.35	14.24	14.60	14.75	-	-

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

10.5.1 Ant 1

Note:

1. Reporting for MIMO calculation

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)				
					26 T	52 T	106 T	242 T	SU
Max Output PSD (dBm)	UNII 1	5180	36	Low	6.663	7.274	6.173	-	-
				Mid	5.905	7.295	-	3.662	5.487
				High	6.784	7.323	6.313	-	-
		5200	40	Low	6.667	7.273	6.232	-	-
				Mid	5.758	7.343	-	3.674	5.572
				High	6.692	7.337	6.216	-	-
		5240	48	Low	7.095	7.379	6.446	-	-
				Mid	6.169	7.407	-	4.016	5.739
				High	7.044	7.403	6.545	-	-
	UNII 2A	5260	52	Low	7.235	7.435	6.527	-	-
				Mid	6.200	7.557	-	4.084	5.885
				High	7.139	7.601	6.589	-	-
		5280	56	Low	6.974	7.263	6.449	-	-
				Mid	6.197	7.395	-	3.941	5.647
				High	7.294	7.386	6.429	-	-
		5320	64	Low	7.460	6.990	6.526	-	-
				Mid	6.549	7.001	-	4.069	6.174
				High	7.514	6.837	6.516	-	-
	UNII 2C	5500	100	Low	7.348	7.107	6.558	-	-
				Mid	6.308	7.070	-	4.069	6.099
				High	7.393	6.977	6.494	-	-
		5600	120	Low	7.272	6.825	6.301	-	-
				Mid	6.295	7.027	-	3.511	5.492
				High	7.200	6.765	6.172	-	-
		5720	144	Low	7.112	6.709	6.347	-	-
				Mid	6.365	6.997	-	3.730	5.424
				High	7.187	6.810	6.372	-	-
	UNII 3	5745	149	Low	4.801	4.723	3.762	-	-
				Mid	4.806	4.769	-	1.275	3.380
				High	4.880	4.676	3.628	-	-

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)				
					26 T	52 T	106 T	242 T	SU
		5785	157	Low	4.920	4.948	3.850	-	-
				Mid	4.947	4.804	-	1.353	3.338
				High	4.863	4.760	3.733	-	-
		5825	165	Low	5.305	5.000	4.176	-	-
				Mid	5.188	5.172	-	1.639	3.685
				High	5.457	5.228	4.109	-	-

HE40		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)					
					26 T	52 T	106 T	242 T	484 T	SU
Max Output PSD (dBm)	UNII 1	5190	38	Low	6.328	5.823	4.335	1.766	-	-
				Mid	6.971	6.323	4.533	-	-1.245	0.334
				High	6.689	6.112	4.427	1.568	-	-
		5230	46	Low	6.572	5.912	4.549	1.533	-	-
				Mid	7.281	6.471	4.664	-	-1.273	0.266
				High	7.093	6.052	4.574	1.641	-	-
	UNII 2A	5270	54	Low	6.841	6.146	4.608	1.691	-	-
				Mid	7.463	6.626	4.877	-	-1.170	0.442
				High	6.779	6.241	4.585	1.973	-	-
		5310	62	Low	7.380	6.706	4.264	1.318	-	-
				Mid	7.657	6.990	4.341	-	-1.688	0.094
				High	7.264	6.476	4.156	1.212	-	-
	UNII 2C	5510	102	Low	7.350	6.257	4.261	1.130	-	-
				Mid	7.487	6.395	4.252	-	-1.765	-0.105
				High	7.020	5.963	4.150	1.212	-	-
		5590	118	Low	6.433	5.924	4.379	1.286	-	-
				Mid	7.346	6.206	4.461	-	-1.662	-0.092
				High	6.380	5.731	4.110	1.148	-	-
		5710	142	Low	6.567	5.838	3.942	1.259	-	-
				Mid	6.936	6.345	4.070	-	-1.662	-0.158
				High	6.427	5.652	3.850	1.171	-	-
	UNII 3	5755	151	Low	4.549	3.436	1.822	-1.637	-	-
				Mid	5.119	3.845	1.621	-	-4.342	-2.838
				High	4.304	3.171	1.268	-1.575	-	-
		5795	159	Low	4.720	3.439	1.674	-1.547	-	-
				Mid	5.167	3.882	1.451	-	-4.453	-2.807
				High	4.666	3.705	1.288	-1.524	-	-

HE80		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output PSD (dBm)	UNII 1	5210	42	Low	7.385	4.897	2.759	-0.176	-3.037	-	-
				Mid	6.633	5.582	3.376	0.018	-	-5.872	-3.462
				High	7.576	5.342	3.240	0.290	-2.728	-	-
	UNII 2A	5290	58	Low	7.318	5.060	3.103	0.211	-2.585	-	-
				Mid	6.632	5.619	3.634	0.327	-	-5.789	-3.405
				High	7.495	5.041	3.174	0.167	-2.632	-	-
	UNII 2C	5530	106	Low	7.566	5.346	3.390	0.411	-2.497	-	-
				Mid	6.568	5.438	3.422	0.392	-	-5.711	-3.308
				High	6.955	4.833	2.878	0.147	-2.601	-	-
		5610	122	Low	7.340	5.064	3.299	0.093	-2.869	-	-
				Mid	6.535	5.398	3.043	0.219	-	-6.039	-3.561
				High	6.952	4.559	2.616	-0.161	-3.035	-	-
		5690	138	Low	7.292	5.201	3.312	0.280	-2.770	-	-
				Mid	6.577	5.430	3.320	0.471	-	-5.878	-3.509
				High	6.910	4.725	2.677	-0.127	-2.798	-	-
	UNII 3	5775	155	Low	5.056	2.735	0.718	-2.754	-5.597	-	-
				Mid	5.044	2.961	0.694	-2.631	-	-8.707	-6.713
				High	5.043	2.506	0.469	-3.027	-5.679	-	-

10.5.2 Ant 2

Note:

1. Reporting for MIMO calculation

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density(dBm)				
					26 T	52 T	106 T	242 T	SU
Max Output PSD (dBm)	UNII 1	5180	36	Low	6.776	6.692	5.642	-	-
				Mid	6.032	6.803	-	3.350	5.361
				High	7.170	6.796	5.852	-	-
		5200	40	Low	6.737	6.581	5.887	-	-
				Mid	6.073	6.757	-	3.191	5.227
				High	6.966	6.722	5.936	-	-
		5240	48	Low	7.046	6.750	5.862	-	-
				Mid	6.161	6.794	-	3.539	5.603
				High	7.438	6.807	5.923	-	-
	UNII 2A	5260	52	Low	7.455	7.133	6.163	-	-
				Mid	6.465	7.282	-	3.839	5.728
				High	7.419	7.319	6.187	-	-
		5280	56	Low	7.131	6.860	5.910	-	-
				Mid	6.313	7.046	-	3.519	5.613
				High	7.209	7.172	6.049	-	-
		5320	64	Low	7.178	6.954	6.181	-	-
				Mid	6.373	6.987	-	3.675	5.803
				High	7.282	6.992	6.252	-	-
	UNII 2C	5500	100	Low	7.209	6.598	5.955	-	-
				Mid	6.191	6.751	-	3.317	5.629
				High	7.169	6.739	5.889	-	-
		5600	120	Low	5.774	6.533	5.652	-	-
				Mid	4.615	6.544	-	3.145	5.224
				High	5.644	6.544	5.781	-	-
		5720	144	Low	6.599	7.601	6.754	-	-
				Mid	5.710	7.648	-	4.246	5.880
				High	6.421	7.450	6.629	-	-
	UNII 3	5745	149	Low	3.858	5.094	4.216	-	-
				Mid	3.733	5.117	-	1.284	2.867
				High	3.817	4.957	4.198	-	-
		5785	157	Low	4.328	4.781	4.059	-	-
				Mid	4.240	4.865	-	1.214	2.678
				High	4.296	4.693	4.063	-	-

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density(dBm)				
					26 T	52 T	106 T	242 T	SU
		5825	165	Low	4.496	5.223	4.404	-	-
				Mid	4.503	5.589	-	1.667	3.049
				High	4.598	5.308	4.445	-	-

HE40		Frequency [MHz]	Channel No.	RUIndex	Max. Power Spectral Density (dBm)					
					26 T	52 T	106 T	242 T	484 T	SU
Max Output PSD (dBm)	UNII 1	5190	38	Low	6.368	5.199	3.145	0.452	-	-
				Mid	7.214	5.832	3.503	-	-2.305	-0.434
				High	7.001	5.620	3.498	0.599	-	-
		5230	46	Low	6.686	5.652	3.269	0.538	-	-
				Mid	7.417	6.565	3.742	-	-2.472	-0.257
				High	7.101	6.087	3.556	0.582	-	-
	UNII 2A	5270	54	Low	6.845	5.745	3.672	0.792	-	-
				Mid	7.790	6.389	3.988	-	-2.056	0.017
				High	7.120	6.045	3.703	0.832	-	-
		5310	62	Low	7.103	5.089	3.693	0.733	-	-
				Mid	7.635	5.586	3.876	-	-1.950	-0.096
				High	7.110	5.051	3.721	0.860	-	-
	UNII 2C	5510	102	Low	7.001	4.616	3.230	0.293	-	-
				Mid	7.311	4.981	3.478	-	-2.576	-0.525
				High	6.700	4.724	3.319	0.377	-	-
		5590	118	Low	5.391	4.273	3.222	0.389	-	-
				Mid	5.877	4.781	3.412	-	-2.618	-0.538
				High	5.545	4.446	3.212	0.393	-	-
		5710	142	Low	6.398	5.516	4.222	1.391	-	-
				Mid	6.945	5.951	4.481	-	-1.663	0.457
				High	6.306	5.705	4.327	1.283	-	-
	UNII 3	5755	151	Low	3.587	2.932	1.779	-1.355	-	-
				Mid	4.034	3.108	1.648	-	-4.238	-2.248
				High	3.531	2.702	1.300	-1.347	-	-
		5795	159	Low	4.027	2.670	1.249	-1.496	-	-
				Mid	4.425	2.913	1.280	-	-4.461	-2.289
				High	3.873	2.634	1.173	-1.617	-	-

HE80		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output PSD (dBm)	UNII 1	5210	42	Low	6.746	4.497	2.616	-0.217	-2.825	-	-
				Mid	6.364	5.413	3.506	0.218	-	-5.592	-3.171
				High	7.592	5.685	3.465	0.556	-2.343	-	-
	UNII 2A	5290	58	Low	6.888	4.614	2.740	-0.784	-3.562	-	-
				Mid	6.265	5.181	3.114	-0.605	-	-6.616	-4.076
				High	7.208	5.151	3.342	-0.710	-3.480	-	-
	UNII 2C	5530	106	Low	6.668	4.445	1.536	-1.313	-4.229	-	-
				Mid	5.912	5.111	1.849	-1.353	-	-7.390	-4.932
				High	6.663	4.417	1.573	-1.436	-4.316	-	-
		5610	122	Low	5.213	3.415	1.190	-1.387	-4.234	-	-
				Mid	4.743	3.782	1.680	-0.973	-	-7.350	-4.702
				High	5.862	3.595	1.559	-1.241	-4.156	-	-
		5690	138	Low	6.461	4.330	2.707	-0.113	-2.936	-	-
				Mid	5.970	4.983	3.052	0.063	-	-6.044	-3.593
				High	6.599	4.642	2.826	0.061	-3.001	-	-
	UNII 3	5775	155	Low	4.310	2.178	0.011	-2.984	-5.908	-	-
				Mid	4.402	2.165	0.164	-2.968	-	-8.910	-6.457
				High	4.359	1.758	-0.223	-3.242	-5.872	-	-

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

Limit(UNII 3) : 30.0 dBm/500 kHz

10.5.3 MIMO (Ant 1 + Ant 2)

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)				
					26 T	52 T	106 T	242 T	SU
Max Output PSD (dBm)	UNII 1	5180	36	Low	9.730	10.003	8.926	-	-
				Mid	8.979	10.066	-	6.519	8.435
				High	9.992	10.078	9.099	-	-
		5200	40	Low	9.712	9.951	9.073	-	-
				Mid	8.929	10.070	-	6.450	8.413
				High	9.841	10.051	9.089	-	-
		5240	48	Low	10.081	10.086	9.174	-	-
				Mid	9.175	10.122	-	6.794	8.682
				High	10.256	10.126	9.255	-	-
	UNII 2A	5260	52	Low	10.357	10.297	9.359	-	-
				Mid	9.345	10.432	-	6.974	8.818
				High	10.292	**10.473**	9.403	-	-
		5280	56	Low	10.064	10.076	9.198	-	-
				Mid	9.266	10.234	-	6.745	8.640
				High	10.262	10.291	9.253	-	-
		5320	64	Low	10.332	9.982	9.367	-	-
				Mid	9.472	10.004	-	6.887	9.003
				High	10.410	9.925	9.396	-	-
	UNII 2C	5500	100	Low	10.289	9.870	9.277	-	-
				Mid	9.260	9.924	-	6.720	8.881
				High	10.293	9.870	9.212	-	-
		5600	120	Low	9.598	9.692	8.999	-	-
				Mid	8.546	9.803	-	6.342	8.370
				High	9.502	9.666	8.991	-	-
		5720	144	Low	9.873	10.188	9.566	-	-
				Mid	9.060	10.345	-	7.006	8.668
				High	9.831	10.152	9.513	-	-
	UNII 3	5745	149	Low	7.365	7.923	7.005	-	-
				Mid	7.313	7.957	-	4.290	6.141
				High	7.391	7.829	6.933	-	-
		5785	157	Low	7.644	7.876	6.966	-	-
				Mid	7.618	7.845	-	4.294	6.031
				High	7.599	7.737	6.911	-	-

HE20		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)				
					26 T	52 T	106 T	242 T	SU
		5825	165	Low	7.930	8.123	7.302	-	-
				Mid	7.869	**8.396**	-	4.663	6.389
				High	8.059	8.278	7.291	-	-

HE40		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)					
					26 T	52 T	106 T	242 T	484 T	SU
Max Output PSD (dBm)	UNII 1	5190	38	Low	9.358	8.532	6.791	4.169	-	-
				Mid	10.104	9.095	7.059	-	1.268	2.977
				High	9.858	8.883	6.998	4.121	-	-
		5230	46	Low	9.640	8.794	6.966	4.074	-	-
				Mid	10.360	9.529	7.238	-	1.179	3.023
				High	10.107	9.080	7.105	4.154	-	-
	UNII 2A	5270	54	Low	9.853	8.960	7.175	4.275	-	-
				Mid	10.640	9.519	7.466	-	1.420	3.245
				High	9.963	9.154	7.177	4.450	-	-
		5310	62	Low	10.254	8.983	6.998	4.046	-	-
				Mid	**10.656**	9.355	7.125	-	1.193	3.010
				High	10.198	8.832	6.954	4.050	-	-
	UNII 2C	5510	102	Low	10.189	8.524	6.786	3.742	-	-
				Mid	10.410	8.756	6.893	-	0.859	2.700
				High	9.873	8.398	6.765	3.825	-	-
		5590	118	Low	8.953	8.187	6.849	3.871	-	-
				Mid	9.684	8.562	6.978	-	0.897	2.701
				High	8.993	8.146	6.694	3.797	-	-
		5710	142	Low	9.494	8.690	7.095	4.336	-	-
				Mid	9.951	9.163	7.291	-	1.348	3.171
				High	9.377	8.689	7.105	4.238	-	-
	UNII 3	5755	151	Low	7.105	6.202	4.811	1.517	-	-
				Mid	7.621	6.502	4.645	-	-1.279	0.477
				High	6.945	5.953	4.294	1.551	-	-
		5795	159	Low	7.398	6.082	4.477	1.489	-	-
				Mid	**7.822**	6.435	4.377	-	-1.447	0.470
				High	7.298	6.213	4.241	1.440	-	-

HE80		Frequency [MHz]	Channel No.	RU Index	Max. Power Spectral Density (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output PSD (dBm)	UNII 1	5210	42	Low	10.088	7.712	5.698	2.814	0.081	-	-
				Mid	9.511	8.509	6.452	3.129	-	-2.719	-0.304
				High	**10.594**	8.527	6.364	3.435	0.479	-	-
	UNII 2A	5290	58	Low	10.119	7.853	5.936	2.752	-0.036	-	-
				Mid	9.463	8.416	6.392	2.896	-	-3.173	-0.717
				High	10.364	8.107	6.269	2.761	-0.025	-	-
	UNII 2C	5530	106	Low	10.150	7.929	5.571	2.644	-0.267	-	-
				Mid	9.263	8.288	5.717	2.617	-	-3.460	-1.034
				High	9.822	7.640	5.285	2.438	-0.364	-	-
		5610	122	Low	9.416	7.328	5.382	2.426	-0.488	-	-
				Mid	8.741	7.675	5.425	2.674	-	-3.635	-1.084
				High	9.451	7.114	5.130	2.343	-0.549	-	-
		5690	138	Low	9.907	7.798	6.030	3.098	0.158	-	-
				Mid	9.294	8.223	6.198	3.282	-	-2.950	-0.540
				High	9.768	7.694	5.762	2.978	0.112	-	-
	UNII 3	5775	155	Low	7.709	5.476	3.389	0.143	-2.739	-	-
				Mid	**7.745**	5.592	3.447	0.214	-	-5.797	-3.573
				High	7.725	5.158	3.147	-0.123	-2.764	-	-

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.

10.6.1.1 Ant1

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	16.32	4.44
				4	14.24	4.52
				7	14.32	4.52
				8	14.44	6.44
			52 T	37	16.48	4.88
				38	14.64	4.84
				39	14.72	4.80
				40	14.80	6.12
			106 T	53	**16.60**	5.40
				54	15.04	6.32
			242 T	61	16.44	**6.48**
			SU	-	15.44	5.40

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	34.12	4.04
				16	34.28	5.08
				17	34.28	6.44
			52 T	# 37	-	-
				41	34.20	4.12
				43	34.36	4.12
				44	34.20	6.84
			106 T	# 53	-	-
				# 54	-	-
				55	35.16	4.44
				56	35.32	6.44
			242 T	# 61	-	-
				62	35.16	6.60
			484 T	65	**37.24**	**7.00**
			SU	-	35.00	5.00

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	74.20	7.08
				36	74.20	8.04
			52 T	# 37	-	-
				# 45	-	-
				51	74.36	5.48
				52	74.84	9.16
			106 T	# 53	-	-
				# 57	-	-
				59	75.32	5.32
				60	75.16	8.20
			242 T	# 61	-	-
				# 62	-	-
				63	75.00	5.64
				64	75.48	8.20
			484 T	# 65	-	-
				66	75.96	**9.48**
			996 T	67	**80.12**	9.32
			SU	-	75.64	5.96

10.6.1.2 Ant2

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	16.04	4.32
				4	14.40	4.44
				7	14.32	4.52
				8	14.40	6.40
			52 T	37	16.40	4.88
				38	14.76	4.88
				39	14.72	4.88
				40	14.76	6.16
			106 T	53	**16.64**	5.32
				54	15.08	**6.52**
			242 T	61	16.40	6.48
			SU	-	15.32	5.56

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	34.12	4.04
				16	34.12	4.68
				17	34.04	6.28
			52 T	# 37	-	-
				41	34.20	4.12
				43	34.20	4.12
				44	34.28	6.52
			106 T	# 53	-	-
				# 54	-	-
				55	35.16	4.28
				56	35.08	6.60
			242 T	# 61	-	-
				62	34.84	6.60
			484 T	65	**37.24**	**6.92**
			SU	-	35.08	5.08

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	74.04	7.24
			52 T	# 37	-	-
				# 45	-	-
				51	74.52	5.48
				52	74.20	8.20
			106 T	# 53	-	-
				# 57	-	-
				59	75.16	4.84
				60	75.00	9.16
			242 T	# 61	-	-
				# 62	-	-
				63	75.48	5.80
				64	75.48	8.36
			484 T	# 65	-	-
				66	75.80	9.32
			996 T	67	**79.48**	**9.96**
			SU	-	75.80	6.12

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

10.6.2.1Ant1

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	4.56
			52 T	# 37	-
				# 38	-
				39	2.56
				40	4.48
			106 T	# 53	-
				54	4.60
			242 T	61	4.56
			SU	-	3.36

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	2.12
				17	4.12
			52 T	# 37	-
				# 41	-
				# 43	-
				44	4.12
			106 T	# 53	-
				# 54	-
				55	**1.32**
				56	4.04
			242 T	# 61	-
				62	4.12
			484 T	65	4.12
			SU	-	2.60

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	2.60
				64	4.20
			484 T	# 65	-
				66	4.36
			996 T	67	4.20
			SU	-	-

10.6.2.2 Ant2

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	4.56
			SU	-	3.00

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	**2.12**
				17	4.12
			52 T	# 37	-
				# 41	-
				# 43	-
				44	4.12
			106 T	# 53	-
				# 54	-
				55	2.60
				56	4.04
			242 T	# 61	-
				62	4.12
			484 T	65	4.12
			SU	-	2.60

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	2.76
				64	4.20
			484 T	# 65	-
				66	4.36
			996 T	67	4.20
			SU	-	-

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

10.6.3.1 Ant1

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	Total Power (dBm)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	9.89	-18.71
				4	9.92	-17.49
				7	-5.95	9.87
				8	-11.82	9.74
			52 T	37	12.80	-15.78
				38	12.91	-16.31
				39	12.42	2.76
				40	-5.11	**12.65**
			106 T	53	14.72	-13.24
				54	11.27	11.97
			242 T	61	14.40	9.31
			SU	-	**14.95**	7.97

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	10.15	-22.97
				16	-0.05	9.29
				17	-11.45	9.50
			52 T	# 37	-	-
				41	11.74	-20.11
				43	11.44	-5.12
				44	-1.19	**10.95**
			106 T	# 53	-	-
				# 54	-	-
				55	12.71	-17.44
				56	9.63	8.99
			242 T	# 61	-	-
				62	12.14	6.04
			484 T	65	**12.75**	3.12
			SU	-	12.70	1.05

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	0.00	9.36
				36	-10.75	9.73
			52 T	# 37	-	-
				# 45	-	-
				51	10.29	-6.24
				52	-2.04	**10.03**
			106 T	# 53	-	-
				# 57	-	-
				59	11.61	-23.49
				60	8.49	8.06
			242 T	# 61	-	-
				# 62	-	-
				63	**12.24**	-21.44
				64	10.90	4.99
			484 T	# 65	-	-
				66	11.58	1.96
			996 T	67	12.00	-1.18
			SU	-	11.90	-3.98

10.6.3.2 Ant2

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	Total Power (dBm)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	9.22	-19.04
				4	9.35	-17.95
				7	-6.70	9.28
				8	-12.33	9.19
			52 T	37	12.94	-15.09
				38	13.06	-14.51
				39	12.61	2.90
				40	-4.81	**12.85**
			106 T	53	15.12	-14.88
				54	11.74	12.47
			242 T	61	14.96	9.90
			SU	-	**15.33**	8.39

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	9.67	-21.59
				16	-0.40	8.81
				17	-10.87	9.04
			52 T	# 37	-	-
				41	11.53	-20.27
				43	11.24	-5.30
				44	-1.21	**10.80**
			106 T	# 53	-	-
				# 54	-	-
				55	13.02	-20.94
				56	10.02	9.39
			242 T	# 61	-	-
				62	12.32	6.27
			484 T	65	12.88	3.34
			SU	-	**13.03**	1.45

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	2.04	9.12
				36	-10.87	9.50
			52 T	# 37	-	-
				# 45	-	-
				51	10.25	-6.28
				52	-2.15	**9.98**
			106 T	# 53	-	-
				# 57	-	-
				59	11.75	-22.71
				60	8.70	8.23
			242 T	# 61	-	-
				# 62	-	-
				63	**12.23**	-22.04
				64	11.04	5.18
			484 T	# 65	-	-
				66	11.68	2.17
			996 T	67	11.89	-0.96
			SU	-	11.79	-3.90

10.6.4 Power Spectral Density

Test Note:

1. Limit(UNII 2C) : 11.0 dBm/MHz
   Limit(UNII 3) : 30.0 dBm/500 kHz

10.6.4.1 Ant1

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	7.210	-21.336
				4	6.213	-19.840
				7	-1.817	**4.584**
				8	-16.739	4.280
			52 T	37	7.275	-17.126
				38	7.297	-19.176
				39	**7.486**	3.805
				40	-1.447	4.458
			106 T	53	6.217	-17.035
				54	6.092	3.246
			242 T	61	3.809	0.476
			SU	-	5.487	-0.229

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	**7.464**	-23.826
				16	3.864	**4.264**
				17	-18.855	4.091
			52 T	# 37	-	-
				41	6.262	-39.114
				43	5.930	-7.115
				44	2.409	2.826
			106 T	# 53	-	-
				# 54	-	-
				55	4.114	-23.211
				56	3.797	0.686
			242 T	# 61	-	-
				62	1.210	-2.311
			484 T	65	-1.729	-5.120
			SU	-	0.190	-6.951

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	2.605	**4.404**
				36	-22.446	4.208
			52 T	# 37	-	-
				# 45	-	-
				51	**4.730**	-10.081
				52	0.308	1.820
			106 T	# 53	-	-
				# 57	-	-
				59	2.992	-26.989
				60	2.734	-0.202
			242 T	# 61	-	-
				# 62	-	-
				63	0.061	-28.722
				64	-0.116	-3.558
			484 T	# 65	-	-
				66	-2.905	-6.236
			996 T	67	-5.803	-9.505
			SU	-	-3.390	-12.221

10.6.4.2 Ant2

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	6.609	-22.694
				4	5.581	-22.753
				7	-1.975	4.126
				8	-18.043	3.757
			52 T	37	7.546	-17.489
				38	7.576	-17.713
				39	**7.665**	3.660
				40	-1.616	**4.616**
			106 T	53	6.628	-16.250
				54	6.575	3.773
			242 T	61	4.139	1.227
			SU	-	5.930	0.165

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	**6.912**	-27.612
				16	3.652	3.588
				17	-21.706	**3.596**
			52 T	# 37	-	-
				41	5.942	-25.987
				43	5.892	-7.599
				44	2.343	2.830
			106 T	# 53	-	-
				# 54	-	-
				55	4.437	-25.208
				56	4.159	1.085
			242 T	# 61	-	-
				62	1.235	-1.968
			484 T	65	-1.615	-4.823
			SU	-	0.303	-6.409

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	2.923	**4.059**
				36	-21.216	3.797
			52 T	# 37	-	-
				# 45	-	-
				51	**4.650**	-10.085
				52	0.109	1.709
			106 T	# 53	-	-
				# 57	-	-
				59	3.045	-30.350
				60	2.873	-0.262
			242 T	# 61	-	-
				# 62	-	-
				63	0.164	-24.331
				64	-0.067	-3.247
			484 T	# 65	-	-
				66	-2.884	-6.201
			996 T	67	-5.987	-9.418
			SU	-	-3.292	-12.347

10.7 RADIATED SPURIOUS EMISSIONS (9 kHz – 1 GHz)

Frequency Range : 9 kHz – 30 MHz

Frequency	Measured Level	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin
[MHz]	[dBµV]	[dB/m]	[H/V]	[dBµV/m]	[dBµV/m]	[dB]
No Critical peaks found						

Note

1. The Measured 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 (dBµV) + Distance extrapolation factor

Frequency Range : Below 1 GHz

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

Note

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

10.8 RADIATED SPURIOUS EMISSIONS (Above 1 GHz)

10.8.1 802.11ax(HE20)_MIMO

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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10360	48.04	4.78	V	52.82	68.20	15.38	PK
15540	46.50	4.74	V	51.24	73.98	22.74	PK
15540	32.97	4.74	V	37.71	53.98	16.27	AV
10360	48.00	4.78	H	52.78	68.20	15.42	PK
15540	47.32	4.74	H	52.06	73.98	21.92	PK
15540	33.19	4.74	H	37.93	53.98	16.05	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10400	47.64	4.37	V	52.01	68.20	16.19	PK
15600	47.12	4.20	V	51.32	73.98	22.66	PK
15600	33.09	4.20	V	37.29	53.98	16.69	AV
10400	48.47	4.37	H	52.84	68.20	15.36	PK
15600	46.94	4.20	H	51.14	73.98	22.84	PK
15600	33.23	4.20	H	37.43	53.98	16.55	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10480	47.46	5.17	V	52.63	68.20	15.57	PK
15720	46.87	3.76	V	50.63	73.98	23.35	PK
15720	32.97	3.76	V	36.73	53.98	17.25	AV
10480	47.43	5.17	H	52.60	68.20	15.60	PK
15720	46.94	3.76	H	50.70	73.98	23.28	PK
15720	33.19	3.76	H	36.95	53.98	17.03	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10520	47.71	4.93	V	52.64	68.20	15.56	PK
15780	46.52	4.08	V	50.60	73.98	23.38	PK
15780	32.90	4.08	V	36.98	53.98	17.00	AV
10520	47.99	4.93	H	52.92	68.20	15.28	PK
15780	46.46	4.08	H	50.54	73.98	23.44	PK
15780	32.82	4.08	H	36.90	53.98	17.08	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10600	47.68	5.16	V	52.84	73.98	21.14	PK
10600	34.31	5.16	V	39.47	53.98	14.51	AV
15900	46.68	5.46	V	52.14	73.98	21.84	PK
15900	32.83	5.46	V	38.29	53.98	15.69	AV
10600	47.48	5.16	H	52.64	73.98	21.34	PK
10600	33.99	5.16	H	39.15	53.98	14.83	AV
15900	46.98	5.46	H	52.44	73.98	21.54	PK
15900	32.71	5.46	H	38.17	53.98	15.81	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10640	48.32	5.36	V	53.68	73.98	20.30	PK
10640	34.40	5.36	V	39.76	53.98	14.22	AV
15960	47.07	4.92	V	51.99	73.98	21.99	PK
15960	32.89	4.92	V	37.81	53.98	16.17	AV
10640	47.81	5.36	H	53.17	73.98	20.81	PK
10640	34.12	5.36	H	39.48	53.98	14.50	AV
15960	46.59	4.92	H	51.51	73.98	22.47	PK
15960	33.04	4.92	H	37.96	53.98	16.02	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11000	47.45	5.57	V	53.02	73.98	20.96	PK
11000	33.48	5.57	V	39.05	53.98	14.93	AV
16500	46.10	7.18	V	53.28	68.20	14.92	PK
11000	47.53	5.57	H	53.10	73.98	20.88	PK
11000	33.45	5.57	H	39.02	53.98	14.96	AV
16500	46.28	7.18	H	53.46	68.20	14.74	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11200	48.12	5.43	V	53.55	73.98	20.43	PK
11200	34.06	5.43	V	39.49	53.98	14.49	AV
16800	45.33	8.86	V	54.19	68.20	14.01	PK
11200	47.95	5.43	H	53.38	73.98	20.60	PK
11200	33.98	5.43	H	39.41	53.98	14.57	AV
16800	45.72	8.86	H	54.58	68.20	13.62	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11440	47.22	5.08	V	52.30	73.98	21.68	PK
11440	33.47	5.08	V	38.55	53.98	15.43	AV
17160	46.20	8.92	V	55.12	68.20	13.08	PK
11440	47.72	5.08	H	52.80	73.98	21.18	PK
11440	33.46	5.08	H	38.54	53.98	15.44	AV
17160	46.67	8.92	H	55.59	68.20	12.61	PK

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

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11490	47.19	5.07	V	52.26	73.98	21.72	PK
11490	33.32	5.07	V	38.39	53.98	15.59	AV
17235	46.63	9.49	V	56.12	68.20	12.08	PK
11490	47.23	5.07	H	52.30	73.98	21.68	PK
11490	33.22	5.07	H	38.29	53.98	15.69	AV
17235	46.62	9.49	H	56.11	68.20	12.09	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11570	47.07	5.07	V	52.14	73.98	21.84	PK
11570	33.18	5.07	V	38.25	53.98	15.73	AV
17355	46.91	10.50	V	57.41	68.20	10.79	PK
11570	46.83	5.07	H	51.90	73.98	22.08	PK
11570	33.17	5.07	H	38.24	53.98	15.74	AV
17355	47.03	10.50	H	57.53	68.20	10.67	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11650	47.05	4.76	V	51.81	73.98	22.17	PK
11650	33.47	4.76	V	38.23	53.98	15.75	AV
17475	47.49	10.29	V	57.78	68.20	10.42	PK
11650	47.34	4.76	H	52.10	73.98	21.88	PK
11650	33.21	4.76	H	37.97	53.98	16.01	AV
17475	48.16	10.29	H	58.45	68.20	9.75	PK

106 Tone RU 53

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

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11490	47.14	5.07	V	52.21	73.98	21.77	PK
11490	33.40	5.07	V	38.47	53.98	15.51	AV
17235	46.20	9.49	V	55.69	68.20	12.51	PK
11490	47.62	5.07	H	52.69	73.98	21.29	PK
11490	33.42	5.07	H	38.49	53.98	15.49	AV
17235	46.50	9.49	H	55.99	68.20	12.21	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11570	47.64	5.07	V	52.71	73.98	21.27	PK
11570	33.15	5.07	V	38.22	53.98	15.76	AV
17355	46.76	10.50	V	57.26	68.20	10.94	PK
11570	46.69	5.07	H	51.76	73.98	22.22	PK
11570	33.09	5.07	H	38.16	53.98	15.82	AV
17355	48.98	10.50	H	59.48	68.20	8.72	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11650	46.94	4.76	V	51.70	73.98	22.28	PK
11650	33.47	4.76	V	38.23	53.98	15.75	AV
17475	47.94	10.29	V	58.23	68.20	9.97	PK
11650	47.45	4.76	H	52.21	73.98	21.77	PK
11650	33.44	4.76	H	38.20	53.98	15.78	AV
17475	49.13	10.29	H	59.42	68.20	8.78	PK

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

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11490	47.17	5.07	V	52.24	73.98	21.74	PK
11490	33.33	5.07	V	38.40	53.98	15.58	AV
17235	47.68	9.49	V	57.17	68.20	11.03	PK
11490	47.02	5.07	H	52.09	73.98	21.89	PK
11490	33.32	5.07	H	38.39	53.98	15.59	AV
17235	49.00	9.49	H	58.49	68.20	9.71	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11570	47.17	5.07	V	52.24	73.98	21.74	PK
11570	33.26	5.07	V	38.33	53.98	15.65	AV
17355	47.28	10.50	V	57.78	68.20	10.42	PK
11570	46.93	5.07	H	52.00	73.98	21.98	PK
11570	33.10	5.07	H	38.17	53.98	15.81	AV
17355	47.66	10.50	H	58.16	68.20	10.04	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11650	47.20	4.76	V	51.96	73.98	22.02	PK
11650	33.44	4.76	V	38.20	53.98	15.78	AV
17475	46.94	10.29	V	57.23	68.20	10.97	PK
11650	47.26	4.76	H	52.02	73.98	21.96	PK
11650	33.59	4.76	H	38.35	53.98	15.63	AV
17475	49.79	10.29	H	60.08	68.20	8.12	PK

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

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11490	47.43	5.07	V	52.50	73.98	21.48	PK
11490	33.27	5.07	V	38.34	53.98	15.64	AV
17235	46.41	9.49	V	55.90	68.20	12.30	PK
11490	47.29	5.07	H	52.36	73.98	21.62	PK
11490	33.31	5.07	H	38.38	53.98	15.60	AV
17235	46.31	9.49	H	55.80	68.20	12.40	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11570	46.72	5.07	V	51.79	73.98	22.19	PK
11570	33.18	5.07	V	38.25	53.98	15.73	AV
17355	46.74	10.50	V	57.24	68.20	10.96	PK
11570	47.43	5.07	H	52.50	73.98	21.48	PK
11570	33.16	5.07	H	38.23	53.98	15.75	AV
17355	46.87	10.50	H	57.37	68.20	10.83	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11650	47.33	4.76	V	52.09	73.98	21.89	PK
11650	33.34	4.76	V	38.10	53.98	15.88	AV
17475	47.78	10.29	V	58.07	68.20	10.13	PK
11650	46.90	4.76	H	51.66	73.98	22.32	PK
11650	33.36	4.76	H	38.12	53.98	15.86	AV
17475	50.30	10.29	H	60.59	68.20	7.61	PK

26 Tone RU 0

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

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11490	47.06	5.07	V	52.13	73.98	21.85	PK
11490	33.25	5.07	V	38.32	53.98	15.66	AV
17235	46.22	9.49	V	55.71	68.20	12.49	PK
11490	47.00	5.07	H	52.07	73.98	21.91	PK
11490	33.35	5.07	H	38.42	53.98	15.56	AV
17235	45.94	9.49	H	55.43	68.20	12.77	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11570	47.79	5.07	V	52.86	73.98	21.12	PK
11570	33.14	5.07	V	38.21	53.98	15.77	AV
17355	46.63	10.50	V	57.13	68.20	11.07	PK
11570	47.05	5.07	H	52.12	73.98	21.86	PK
11570	33.30	5.07	H	38.37	53.98	15.61	AV
17355	46.78	10.50	H	57.28	68.20	10.92	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11650	47.36	4.76	V	52.12	73.98	21.86	PK
11650	33.52	4.76	V	38.28	53.98	15.70	AV
17475	46.98	10.29	V	57.27	68.20	10.93	PK
11650	47.06	4.76	H	51.82	73.98	22.16	PK
11650	33.50	4.76	H	38.26	53.98	15.72	AV
17475	46.96	10.29	H	57.25	68.20	10.95	PK

26 Tone RU 4

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

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11490	47.15	5.07	V	52.22	73.98	21.76	PK
11490	33.32	5.07	V	38.39	53.98	15.59	AV
17235	46.54	9.49	V	56.03	68.20	12.17	PK
11490	47.32	5.07	H	52.39	73.98	21.59	PK
11490	33.46	5.07	H	38.53	53.98	15.45	AV
17235	45.70	9.49	H	55.19	68.20	13.01	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11570	47.15	5.07	V	52.22	73.98	21.76	PK
11570	33.40	5.07	V	38.47	53.98	15.51	AV
17355	47.16	10.50	V	57.66	68.20	10.54	PK
11570	46.91	5.07	H	51.98	73.98	22.00	PK
11570	33.13	5.07	H	38.20	53.98	15.78	AV
17355	47.10	10.50	H	57.60	68.20	10.60	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11650	47.54	4.76	V	52.30	73.98	21.68	PK
11650	33.23	4.76	V	37.99	53.98	15.99	AV
17475	46.81	10.29	V	57.10	68.20	11.10	PK
11650	47.50	4.76	H	52.26	73.98	21.72	PK
11650	33.36	4.76	H	38.12	53.98	15.86	AV
17475	47.19	10.29	H	57.48	68.20	10.72	PK

26 Tone RU 8

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

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11490	47.62	5.07	V	52.69	73.98	21.29	PK
11490	33.51	5.07	V	38.58	53.98	15.40	AV
17235	46.48	9.49	V	55.97	68.20	12.23	PK
11490	47.02	5.07	H	52.09	73.98	21.89	PK
11490	33.32	5.07	H	38.39	53.98	15.59	AV
17235	46.29	9.49	H	55.78	68.20	12.42	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11570	46.85	5.07	V	51.92	73.98	22.06	PK
11570	33.11	5.07	V	38.18	53.98	15.80	AV
17355	46.86	10.50	V	57.36	68.20	10.84	PK
11570	47.47	5.07	H	52.54	73.98	21.44	PK
11570	33.13	5.07	H	38.20	53.98	15.78	AV
17355	46.70	10.50	H	57.20	68.20	11.00	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11650	47.41	4.76	V	52.17	73.98	21.81	PK
11650	33.43	4.76	V	38.19	53.98	15.79	AV
17475	47.38	10.29	V	57.67	68.20	10.53	PK
11650	47.46	4.76	H	52.22	73.98	21.76	PK
11650	33.34	4.76	H	38.10	53.98	15.88	AV
17475	47.44	10.29	H	57.73	68.20	10.47	PK

10.8.2 802.11ax(HE40)_MIMO

484 Tone RU 65

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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10380	47.67	4.72	V	52.39	68.20	15.81	PK
15570	46.90	4.87	V	51.77	73.98	22.21	PK
15570	33.98	4.87	V	38.85	53.98	15.13	AV
10380	48.14	4.72	H	52.86	68.20	15.34	PK
15570	47.12	4.87	H	51.99	73.98	21.99	PK
15570	33.88	4.87	H	38.75	53.98	15.23	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10460	47.64	5.33	V	52.97	68.20	15.23	PK
15690	47.20	3.98	V	51.18	73.98	22.80	PK
15690	33.93	3.98	V	37.91	53.98	16.07	AV
10460	47.51	5.33	H	52.84	68.20	15.36	PK
15690	47.11	3.98	H	51.09	73.98	22.89	PK
15690	34.16	3.98	H	38.14	53.98	15.84	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10540	48.21	4.90	V	53.11	68.20	15.09	PK
15810	46.61	4.55	V	51.16	73.98	22.82	PK
15810	33.55	4.55	V	38.10	53.98	15.88	AV
10540	48.02	4.90	H	52.92	68.20	15.28	PK
15810	46.30	4.55	H	50.85	73.98	23.13	PK
15810	33.52	4.55	H	38.07	53.98	15.91	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10620	48.09	5.35	V	53.44	73.98	20.54	PK
10620	34.75	5.35	V	40.10	53.98	13.88	AV
15930	46.88	4.83	V	51.71	73.98	22.27	PK
15930	33.75	4.83	V	38.58	53.98	15.40	AV
10620	47.76	5.35	H	53.11	73.98	20.87	PK
10620	34.92	5.35	H	40.27	53.98	13.71	AV
15930	47.18	4.83	H	52.01	73.98	21.97	PK
15930	33.74	4.83	H	38.57	53.98	15.41	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11020	47.40	5.30	V	52.70	73.98	21.28	PK
11020	34.35	5.30	V	39.65	53.98	14.33	AV
16530	46.54	7.39	V	53.93	68.20	14.27	PK
11020	47.48	5.30	H	52.78	73.98	21.20	PK
11020	34.35	5.30	H	39.65	53.98	14.33	AV
16530	46.24	7.39	H	53.63	68.20	14.57	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11180	48.14	4.90	V	53.04	73.98	20.94	PK
11180	34.71	4.90	V	39.61	53.98	14.37	AV
16770	45.78	8.84	V	54.62	68.20	13.58	PK
11180	48.14	4.90	H	53.04	73.98	20.94	PK
11180	35.05	4.90	H	39.95	53.98	14.03	AV
16770	46.06	8.84	H	54.90	68.20	13.30	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11420	48.06	5.42	V	53.48	73.98	20.50	PK
11420	34.49	5.42	V	39.91	53.98	14.07	AV
17130	46.05	8.67	V	54.72	68.20	13.48	PK
11420	48.01	5.42	H	53.43	73.98	20.55	PK
11420	34.38	5.42	H	39.80	53.98	14.18	AV
17130	46.35	8.67	H	55.02	68.20	13.18	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11510	47.18	4.93	V	52.11	73.98	21.87	PK
11510	34.22	4.93	V	39.15	53.98	14.83	AV
17265	46.47	9.66	V	56.13	68.20	12.07	PK
11510	47.97	4.93	H	52.90	73.98	21.08	PK
11510	34.03	4.93	H	38.96	53.98	15.02	AV
17265	46.27	9.66	H	55.93	68.20	12.27	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11590	47.43	5.20	V	52.63	73.98	21.35	PK
11590	33.88	5.20	V	39.08	53.98	14.90	AV
17385	47.25	10.49	V	57.74	68.20	10.46	PK
11590	46.64	5.20	H	51.84	73.98	22.14	PK
11590	33.80	5.20	H	39.00	53.98	14.98	AV
17385	47.83	10.49	H	58.32	68.20	9.88	PK

10.8.3 802.11ax(HE80)_MIMO

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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10420	47.55	4.52	V	52.07	68.20	16.13	PK
15630	47.22	4.05	V	51.27	73.98	22.71	PK
15630	35.40	4.05	V	39.45	53.98	14.53	AV
10420	47.62	4.52	H	52.14	68.20	16.06	PK
15630	47.34	4.05	H	51.39	73.98	22.59	PK
15630	35.24	4.05	H	39.29	53.98	14.69	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10580	48.02	4.61	V	52.63	68.20	15.57	PK
15870	46.87	5.28	V	52.15	73.98	21.83	PK
15870	34.86	5.28	V	40.14	53.98	13.84	AV
10580	48.13	4.61	H	52.74	68.20	15.46	PK
15870	46.86	5.28	H	52.14	73.98	21.84	PK
15870	34.96	5.28	H	40.24	53.98	13.74	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11060	47.62	5.73	V	53.35	73.98	20.63	PK
11060	35.94	5.73	V	41.67	53.98	12.31	AV
16590	46.12	7.60	V	53.72	68.20	14.48	PK
11060	48.68	5.73	H	54.41	73.98	19.57	PK
11060	36.06	5.73	H	41.79	53.98	12.19	AV
16590	46.37	7.60	H	53.97	68.20	14.23	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11220	47.73	5.56	V	53.29	73.98	20.69	PK
11220	36.12	5.56	V	41.68	53.98	12.30	AV
16830	46.32	9.92	V	56.24	68.20	11.96	PK
11220	47.97	5.56	H	53.53	73.98	20.45	PK
11220	36.09	5.56	H	41.65	53.98	12.33	AV
16830	46.15	9.92	H	56.07	68.20	12.13	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11380	47.86	4.81	V	52.67	73.98	21.31	PK
11380	35.92	4.81	V	40.73	53.98	13.25	AV
17070	46.03	9.54	V	55.57	68.20	12.63	PK
11380	47.62	4.81	H	52.43	73.98	21.55	PK
11380	35.66	4.81	H	40.47	53.98	13.51	AV
17070	46.09	9.54	H	55.63	68.20	12.57	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11550	47.73	5.78	V	53.51	73.98	20.47	PK
11550	35.58	5.78	V	41.36	53.98	12.62	AV
17325	46.59	10.32	V	56.91	68.20	11.29	PK
11550	46.98	5.78	H	52.76	73.98	21.22	PK
11550	35.71	5.78	H	41.49	53.98	12.49	AV
17325	47.06	10.32	H	57.38	68.20	10.82	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.

[RSDB Mode]

WLAN Ant : WLAN 2.4G 802.11b MIMO ch.1 11 Mbps & 802.11ax(HE20) 52T RU38 MCS0 ch.165

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
17475	50.80	10.29	H	61.09	68.20	7.11	PK

[DBS Mode]

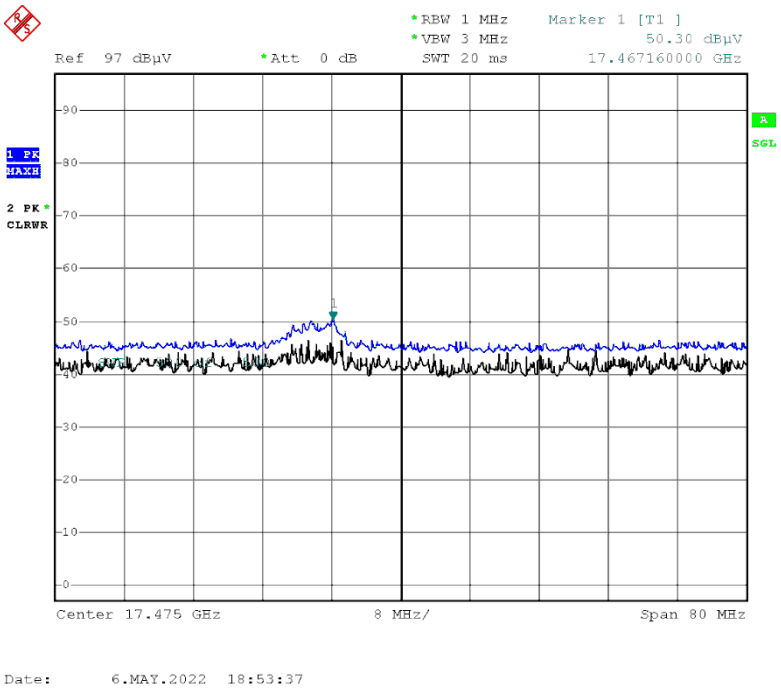
WLAN/BT Ant : Bluetooth (GFSK) CH.0 & 802.11ax(HE20) 52T RU38 MCS0 ch.165

Frequency [MHz]	Measured Value [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
17475	48.92	10.29	V	59.21	68.20	8.99	PK

[MIMO]

▣ Test Plots_52 Tone RU 38

Peak result (802.11axHE20, Ch.165 Spurious Emission, Z-H)



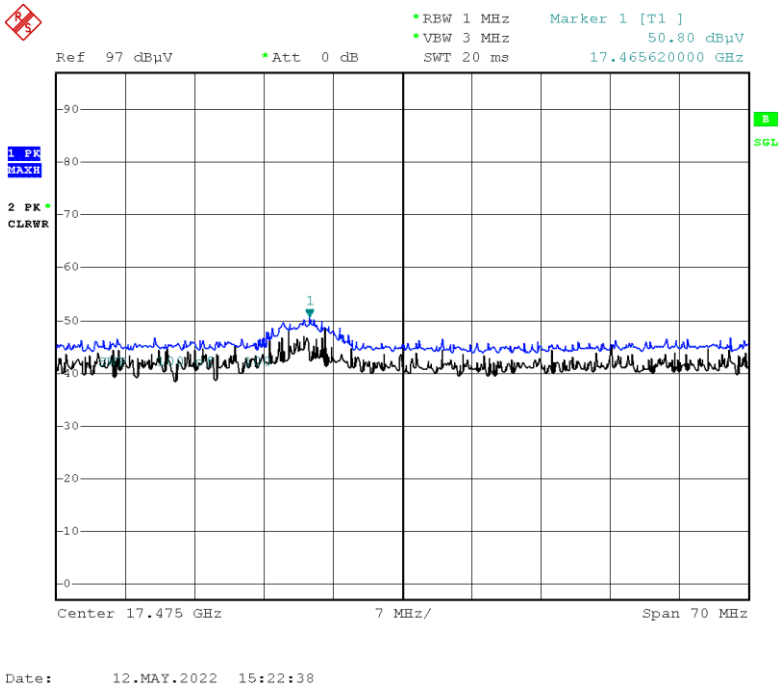
Note:

Only the worst case plots for Radiated Spurious Emissions.

RESULT PLOTS(DBS)

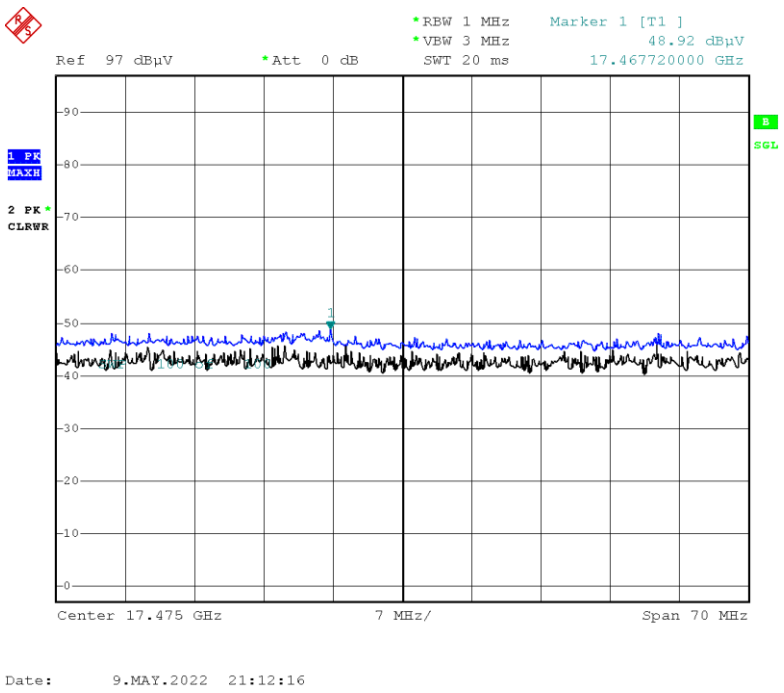
WLAN Ant : WLAN 2.4G 802.11b MIMO ch.1 11 Mbps & 802.11ax(HE20) 52T RU38 MCS0 ch.165

Radiated Spurious Emissions plot – Peak Result (Spurious Emissions Y-H)



WLAN/BT Ant : Bluetooth (GFSK) CH.0 & 802.11ax(HE20) 52T RU38 MCS0 ch.165

Radiated Spurious Emissions plot – Peak Result (Spurious Emissions Y-H)



Note:

Only the worst case plots for Radiated Spurious Emissions.

10.9 RADIATED RESTRICTED BAND EDGE

10.9.1 MIMO

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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	44.96	12.12	H	57.08	73.98	16.90	PK
5150	31.18	12.12	H	43.30	53.98	10.68	AV
5150	44.57	12.12	V	56.69	73.98	17.29	PK
5150	31.11	12.12	V	43.23	53.98	10.75	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	43.21	12.14	H	55.35	73.98	18.63	PK
5350	30.51	12.14	H	42.65	53.98	11.33	AV
5350	43.57	12.14	V	55.71	73.98	18.27	PK
5350	30.67	12.14	V	42.81	53.98	11.17	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	44.23	12.67	H	56.90	73.98	17.08	PK
5460	30.47	12.67	H	43.14	53.98	10.84	AV
5470	43.07	12.70	H	55.77	68.23	12.46	PK
5460	44.15	12.67	V	56.82	73.98	17.16	PK
5460	30.39	12.67	V	43.06	53.98	10.92	AV
5470	43.02	12.70	V	55.72	68.23	12.51	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	44.41	12.12	H	56.53	73.98	17.45	PK
5150	31.16	12.12	H	43.28	53.98	10.70	AV
5150	44.24	12.12	V	56.36	73.98	17.62	PK
5150	31.09	12.12	V	43.21	53.98	10.77	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	43.44	12.14	H	55.58	73.98	18.40	PK
5350	30.35	12.14	H	42.49	53.98	11.49	AV
5350	43.79	12.14	V	55.93	73.98	18.05	PK
5350	30.48	12.14	V	42.62	53.98	11.36	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	44.13	12.67	H	56.80	73.98	17.18	PK
5460	30.49	12.67	H	43.16	53.98	10.82	AV
5470	43.65	12.70	H	56.35	68.23	11.88	PK
5460	44.04	12.67	V	56.71	73.98	17.27	PK
5460	30.42	12.67	V	43.09	53.98	10.89	AV
5470	43.27	12.70	V	55.97	68.23	12.26	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	44.42	12.12	H	56.54	73.98	17.44	PK
5150	31.16	12.12	H	43.28	53.98	10.70	AV
5150	44.37	12.12	V	56.49	73.98	17.49	PK
5150	31.11	12.12	V	43.23	53.98	10.75	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	46.33	12.14	H	58.47	73.98	15.51	PK
5350	30.27	12.14	H	42.41	53.98	11.57	AV
5350	46.86	12.14	V	59.00	73.98	14.98	PK
5350	30.58	12.14	V	42.72	53.98	11.26	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	44.85	12.67	H	57.52	73.98	16.46	PK
5460	30.48	12.67	H	43.15	53.98	10.83	AV
5470	43.00	12.70	H	55.70	68.23	12.53	PK
5460	44.52	12.67	V	57.19	73.98	16.79	PK
5460	30.42	12.67	V	43.09	53.98	10.89	AV
5470	42.96	12.70	V	55.66	68.23	12.57	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	44.70	12.12	H	56.82	73.98	17.16	PK
5150	31.30	12.12	H	43.42	53.98	10.56	AV
5150	44.54	12.12	V	56.66	73.98	17.32	PK
5150	31.21	12.12	V	43.33	53.98	10.65	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	46.42	12.14	H	58.56	73.98	15.42	PK
5350	30.52	12.14	H	42.66	53.98	11.32	AV
5350	48.63	12.14	V	60.77	73.98	13.21	PK
5350	30.77	12.14	V	42.91	53.98	11.07	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	**44.03**	**12.67**	**H**	**56.70**	**73.98**	**17.28**	**PK**
5460	**30.85**	**12.67**	**H**	**43.52**	**53.98**	**10.46**	**AV**
5470	**48.35**	**12.70**	**H**	**61.05**	**68.23**	**7.18**	**PK**
5460	43.89	12.67	V	56.56	73.98	17.42	PK
5460	30.76	12.67	V	43.43	53.98	10.55	AV
5470	48.11	12.70	V	60.81	68.23	7.42	PK

1.5) SU

Band :	UNII 1
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5180 MHz
Channel No.	36 Ch
RU offset.	None

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	44.40	12.12	H	56.52	73.98	17.46	PK
5150	31.27	12.12	H	43.39	53.98	10.59	AV
5150	44.28	12.12	V	56.40	73.98	17.58	PK
5150	31.21	12.12	V	43.33	53.98	10.65	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5320 MHz
Channel No.	64 Ch
RU offset.	None

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	43.86	12.14	H	56.00	73.98	17.98	PK
5350	30.38	12.14	H	42.52	53.98	11.46	AV
5350	44.06	12.14	V	56.20	73.98	17.78	PK
5350	30.49	12.14	V	42.63	53.98	11.35	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5500 MHz
Channel No.	100 Ch
RU offset.	None

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	43.97	12.67	H	56.64	73.98	17.34	PK
5460	30.56	12.67	H	43.23	53.98	10.75	AV
5470	43.22	12.70	H	55.92	68.23	12.31	PK
5460	43.69	12.67	V	56.36	73.98	17.62	PK
5460	30.45	12.67	V	43.12	53.98	10.86	AV
5470	43.21	12.70	V	55.91	68.23	12.32	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	44.15	12.12	H	56.27	73.98	17.71	PK
5150	31.08	12.12	H	43.20	53.98	10.78	AV
5150	44.02	12.12	V	56.14	73.98	17.84	PK
5150	30.93	12.12	V	43.05	53.98	10.93	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	43.57	12.14	H	55.71	73.98	18.27	PK
5350	30.45	12.14	H	42.59	53.98	11.39	AV
5350	42.95	12.14	V	55.09	73.98	18.89	PK
5350	30.27	12.14	V	42.41	53.98	11.57	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	44.32	12.67	H	56.99	73.98	16.99	PK
5460	30.26	12.67	H	42.93	53.98	11.05	AV
5470	43.66	12.70	H	56.36	68.23	11.87	PK
5460	44.19	12.67	V	56.86	73.98	17.12	PK
5460	30.21	12.67	V	42.88	53.98	11.10	AV
5470	43.24	12.70	V	55.94	68.23	12.29	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	44.64	12.12	H	56.76	73.98	17.22	PK
5150	31.11	12.12	H	43.23	53.98	10.75	AV
5150	44.39	12.12	V	56.51	73.98	17.47	PK
5150	31.04	12.12	V	43.16	53.98	10.82	AV

Band :	UNII 1
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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	44.25	12.14	H	56.39	73.98	17.59	PK
5350	30.66	12.14	H	42.80	53.98	11.18	AV
5350	44.15	12.14	V	56.29	73.98	17.69	PK
5350	30.57	12.14	V	42.71	53.98	11.27	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	43.43	12.67	H	56.10	73.98	17.88	PK
5460	30.23	12.67	H	42.90	53.98	11.08	AV
5470	42.53	12.70	H	55.23	68.23	13.00	PK
5460	43.17	12.67	V	55.84	73.98	18.14	PK
5460	30.20	12.67	V	42.87	53.98	11.11	AV
5470	42.29	12.70	V	54.99	68.23	13.24	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	44.53	12.12	H	56.65	73.98	17.33	PK
5150	31.03	12.12	H	43.15	53.98	10.83	AV
5150	44.31	12.12	V	56.43	73.98	17.55	PK
5150	30.89	12.12	V	43.01	53.98	10.97	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	43.90	12.14	H	56.04	73.98	17.94	PK
5350	30.44	12.14	H	42.58	53.98	11.40	AV
5350	43.33	12.14	V	55.47	73.98	18.51	PK
5350	30.26	12.14	V	42.40	53.98	11.58	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	46.42	12.67	H	59.09	73.98	14.89	PK
5460	30.25	12.67	H	42.92	53.98	11.06	AV
5470	43.34	12.70	H	56.04	68.23	12.19	PK
5460	46.22	12.67	V	58.89	73.98	15.09	PK
5460	30.21	12.67	V	42.88	53.98	11.10	AV
5470	43.31	12.70	V	56.01	68.23	12.22	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	44.15	12.12	H	56.27	73.98	17.71	PK
5150	31.00	12.12	H	43.12	53.98	10.86	AV
5150	44.03	12.12	V	56.15	73.98	17.83	PK
5150	30.87	12.12	V	42.99	53.98	10.99	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	44.10	12.14	H	56.24	73.98	17.74	PK
5350	30.34	12.14	H	42.48	53.98	11.50	AV
5350	44.07	12.14	V	56.21	73.98	17.77	PK
5350	30.28	12.14	V	42.42	53.98	11.56	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	43.70	12.67	H	56.37	73.98	17.61	PK
5460	30.31	12.67	H	42.98	53.98	11.00	AV
5470	42.98	12.70	H	55.68	68.23	12.55	PK
5460	42.99	12.67	V	55.66	73.98	18.32	PK
5460	30.27	12.67	V	42.94	53.98	11.04	AV
5470	42.55	12.70	V	55.25	68.23	12.98	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	44.58	12.12	H	56.70	73.98	17.28	PK
5150	31.08	12.12	H	43.20	53.98	10.78	AV
5150	44.28	12.12	V	56.40	73.98	17.58	PK
5150	30.97	12.12	V	43.09	53.98	10.89	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	43.81	12.14	H	55.95	73.98	18.03	PK
5350	30.49	12.14	H	42.63	53.98	11.35	AV
5350	43.28	12.14	V	55.42	73.98	18.56	PK
5350	30.31	12.14	V	42.45	53.98	11.53	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	43.43	12.67	H	56.10	73.98	17.88	PK
5460	30.35	12.67	H	43.02	53.98	10.96	AV
5470	42.48	12.70	H	55.18	68.23	13.05	PK
5460	43.21	12.67	V	55.88	73.98	18.10	PK
5460	30.20	12.67	V	42.87	53.98	11.11	AV
5470	42.30	12.70	V	55.00	68.23	13.23	PK

2.6) SU

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5190 MHz
Channel No.	38 Ch
RU offset.	None

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	44.53	12.12	H	56.65	73.98	17.33	PK
5150	30.99	12.12	H	43.11	53.98	10.87	AV
5150	44.27	12.12	V	56.39	73.98	17.59	PK
5150	30.85	12.12	V	42.97	53.98	11.01	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5310 MHz
Channel No.	62 Ch
RU offset.	None

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	43.82	12.14	H	55.96	73.98	18.02	PK
5350	30.42	12.14	H	42.56	53.98	11.42	AV
5350	43.35	12.14	V	55.49	73.98	18.49	PK
5350	30.39	12.14	V	42.53	53.98	11.45	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5510 MHz
Channel No.	102 Ch
RU offset.	None

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	43.60	12.67	H	56.27	73.98	17.71	PK
5460	30.33	12.67	H	43.00	53.98	10.98	AV
5470	43.07	12.70	H	55.77	68.23	12.46	PK
5460	43.33	12.67	V	56.00	73.98	17.98	PK
5460	30.27	12.67	V	42.94	53.98	11.04	AV
5470	42.96	12.70	V	55.66	68.23	12.57	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	44.20	12.12	H	56.32	73.98	17.66	PK
5150	30.88	12.12	H	43.00	53.98	10.98	AV
5150	44.19	12.12	V	56.31	73.98	17.67	PK
5150	30.64	12.12	V	42.76	53.98	11.22	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	44.09	12.14	H	56.23	73.98	17.75	PK
5350	30.42	12.14	H	42.56	53.98	11.42	AV
5350	43.92	12.14	V	56.06	73.98	17.92	PK
5350	30.38	12.14	V	42.52	53.98	11.46	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	43.72	12.67	H	56.39	73.98	17.59	PK
5460	30.16	12.67	H	42.83	53.98	11.15	AV
5470	44.93	12.70	H	57.63	68.23	10.60	PK
5460	43.59	12.67	V	56.26	73.98	17.72	PK
5460	30.09	12.67	V	42.76	53.98	11.22	AV
5470	44.29	12.70	V	56.99	68.23	11.24	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	43.81	12.12	H	55.93	73.98	18.05	PK
5150	30.89	12.12	H	43.01	53.98	10.97	AV
5150	43.54	12.12	V	55.66	73.98	18.32	PK
5150	30.71	12.12	V	42.83	53.98	11.15	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	43.99	12.14	H	56.13	73.98	17.85	PK
5350	30.48	12.14	H	42.62	53.98	11.36	AV
5350	43.22	12.14	V	55.36	73.98	18.62	PK
5350	30.28	12.14	V	42.42	53.98	11.56	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	43.91	12.67	H	56.58	73.98	17.40	PK
5460	30.25	12.67	H	42.92	53.98	11.06	AV
5470	43.68	12.70	H	56.38	68.23	11.85	PK
5460	43.32	12.67	V	55.99	73.98	17.99	PK
5460	30.15	12.67	V	42.82	53.98	11.16	AV
5470	43.54	12.70	V	56.24	68.23	11.99	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	44.95	12.12	H	57.07	73.98	16.91	PK
5150	30.87	12.12	H	42.99	53.98	10.99	AV
5150	44.54	12.12	V	56.66	73.98	17.32	PK
5150	30.67	12.12	V	42.79	53.98	11.19	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	46.89	12.14	H	59.03	73.98	14.95	PK
5350	30.47	12.14	H	42.61	53.98	11.37	AV
5350	46.45	12.14	V	58.59	73.98	15.39	PK
5350	30.31	12.14	V	42.45	53.98	11.53	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	46.30	12.67	H	58.97	73.98	15.01	PK
5460	30.19	12.67	H	42.86	53.98	11.12	AV
5470	46.03	12.70	H	58.73	68.23	9.50	PK
5460	46.15	12.67	V	58.82	73.98	15.16	PK
5460	30.05	12.67	V	42.72	53.98	11.26	AV
5470	45.38	12.70	V	58.08	68.23	10.15	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	44.29	12.12	H	56.41	73.98	17.57	PK
5150	30.85	12.12	H	42.97	53.98	11.01	AV
5150	44.21	12.12	V	56.33	73.98	17.65	PK
5150	30.81	12.12	V	42.93	53.98	11.05	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	48.24	12.14	H	60.38	73.98	13.60	PK
5350	30.48	12.14	H	42.62	53.98	11.36	AV
5350	48.06	12.14	V	60.20	73.98	13.78	PK
5350	30.37	12.14	V	42.51	53.98	11.47	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	46.25	12.67	H	58.92	73.98	15.06	PK
5460	30.21	12.67	H	42.88	53.98	11.10	AV
5470	47.65	12.70	H	60.35	68.23	7.88	PK
5460	46.09	12.67	V	58.76	73.98	15.22	PK
5460	30.16	12.67	V	42.83	53.98	11.15	AV
5470	46.99	12.70	V	59.69	68.23	8.54	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	44.98	12.12	H	57.10	73.98	16.88	PK
5150	30.95	12.12	H	43.07	53.98	10.91	AV
5150	44.68	12.12	V	56.80	73.98	17.18	PK
5150	30.72	12.12	V	42.84	53.98	11.14	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	47.87	12.14	H	60.01	73.98	13.97	PK
5350	30.87	12.14	H	43.01	53.98	10.97	AV
5350	46.93	12.14	V	59.07	73.98	14.91	PK
5350	30.54	12.14	V	42.68	53.98	11.30	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	46.97	12.67	H	59.64	73.98	14.34	PK
5460	30.30	12.67	H	42.97	53.98	11.01	AV
5470	48.21	12.70	H	60.91	68.23	7.32	PK
5460	46.89	12.67	V	59.56	73.98	14.42	PK
5460	30.21	12.67	V	42.88	53.98	11.10	AV
5470	47.33	12.70	V	60.03	68.23	8.20	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	44.43	12.12	H	56.55	73.98	17.43	PK
5150	30.93	12.12	H	43.05	53.98	10.93	AV
5150	44.38	12.12	V	56.50	73.98	17.48	PK
5150	30.67	12.12	V	42.79	53.98	11.19	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	50.32	12.14	H	62.46	73.98	11.52	PK
5350	31.42	12.14	H	43.56	53.98	10.42	AV
5350	50.21	12.14	V	62.35	73.98	11.63	PK
5350	31.37	12.14	V	43.51	53.98	10.47	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]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	43.71	12.67	H	56.38	73.98	17.60	PK
5460	30.25	12.67	H	42.92	53.98	11.06	AV
5470	43.34	12.70	H	56.04	68.23	12.19	PK
5460	43.58	12.67	V	56.25	73.98	17.73	PK
5460	30.16	12.67	V	42.83	53.98	11.15	AV
5470	43.22	12.70	V	55.92	68.23	12.31	PK

3.7) SU

Band :	UNII 1
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	42 Ch
RU offset.	None

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	44.88	12.12	H	57.00	73.98	16.98	PK
5150	30.88	12.12	H	43.00	53.98	10.98	AV
5150	44.27	12.12	V	56.39	73.98	17.59	PK
5150	30.81	12.12	V	42.93	53.98	11.05	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	58 Ch
RU offset.	None

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	43.63	12.14	H	55.77	73.98	18.21	PK
5350	30.49	12.14	H	42.63	53.98	11.35	AV
5350	43.32	12.14	V	55.46	73.98	18.52	PK
5350	30.27	12.14	V	42.41	53.98	11.57	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	106 Ch
RU offset.	None

Frequency [MHz]	Measured Level [dBµV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	43.76	12.67	H	56.43	73.98	17.55	PK
5460	30.26	12.67	H	42.93	53.98	11.05	AV
5470	43.49	12.70	H	56.19	68.23	12.04	PK
5460	43.29	12.67	V	55.96	73.98	18.02	PK
5460	30.18	12.67	V	42.85	53.98	11.13	AV
5470	43.21	12.70	V	55.91	68.23	12.32	PK

Note:

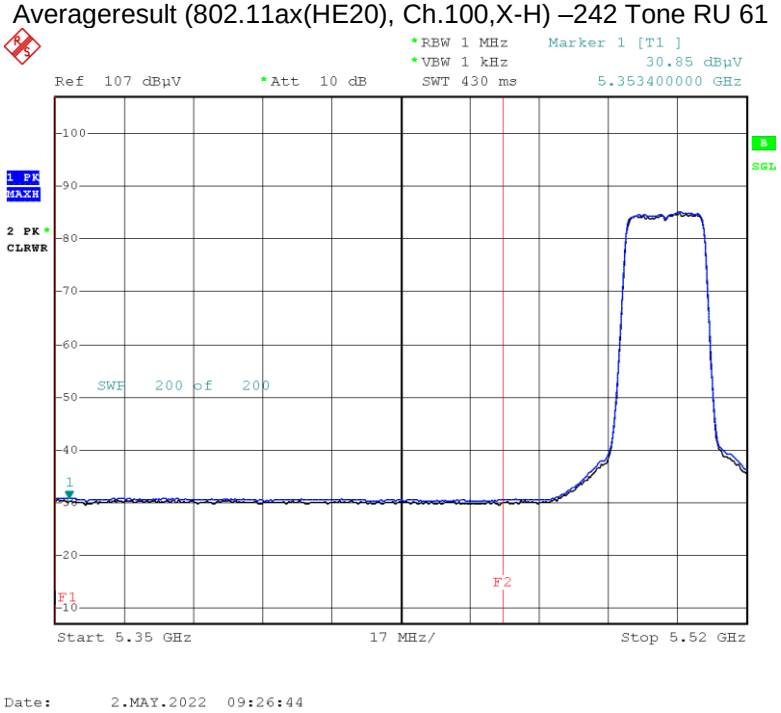
All Modes of operation were investigated and the worst case configuration results are reported.

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

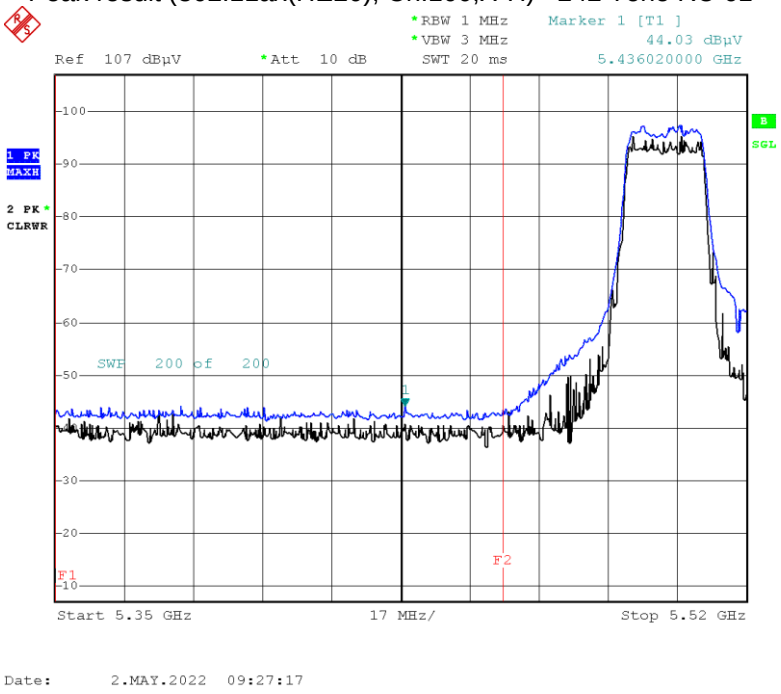
▣ Test Plots(UNII 1, 2A, 2C),

[MIMO]

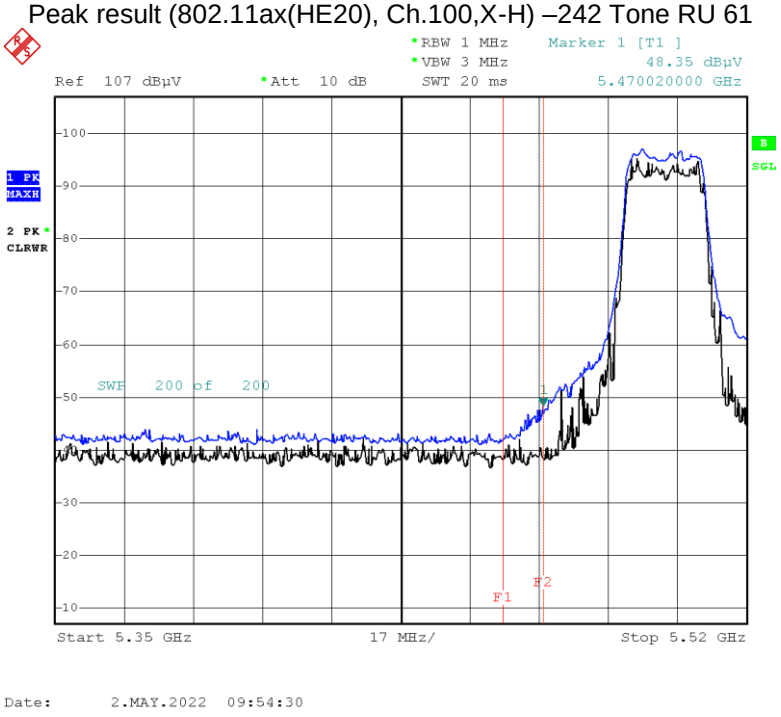
Averageresult (802.11ax(HE20), Ch.100,X-H) –242 Tone RU 61



Peak result (802.11ax(HE20), Ch.100,X-H) –242 Tone RU 61



Peak result (802.11ax(HE20), Ch.100,X-H) –242 Tone RU 61



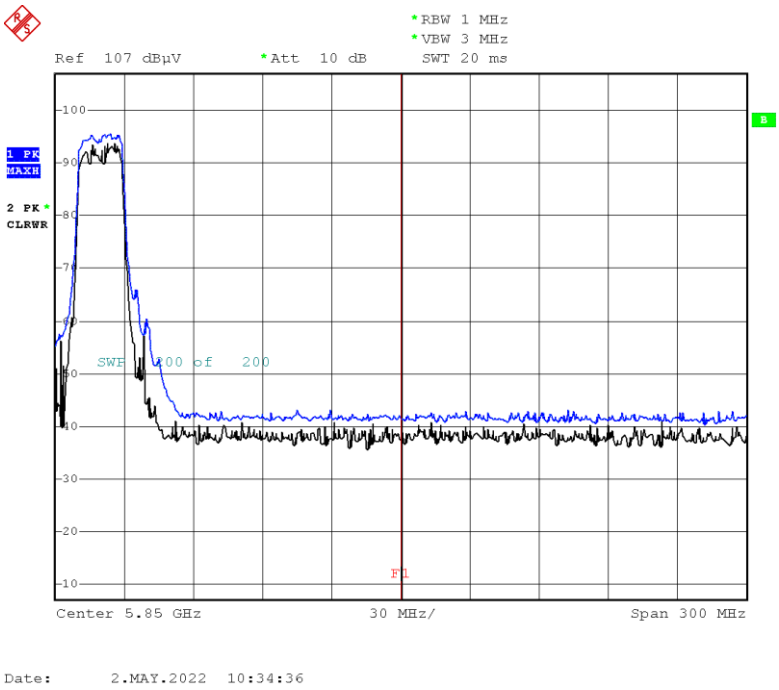
Note:

Only the worst case plots for Radiated Restricted Band Edge.

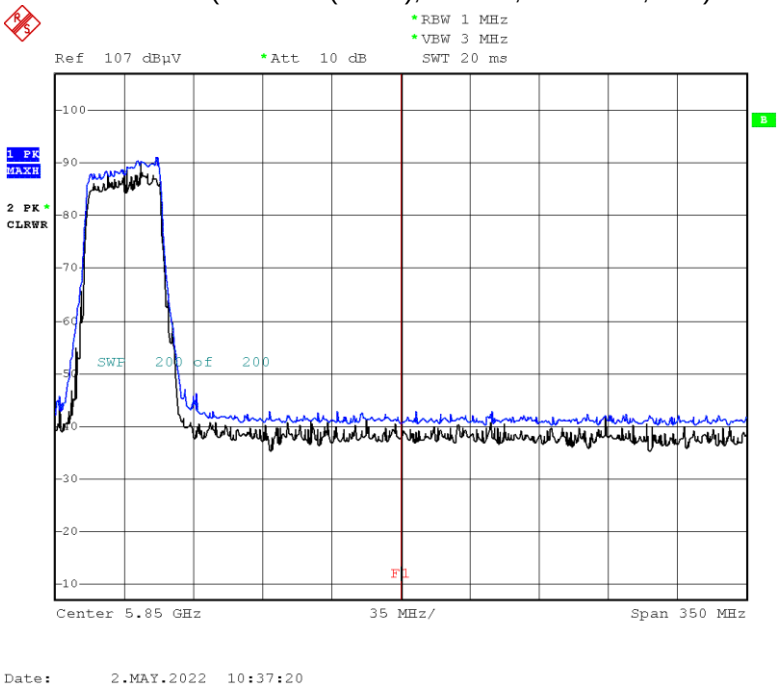
▣ Test Plots(Staraddle Channel)

[MIMO]

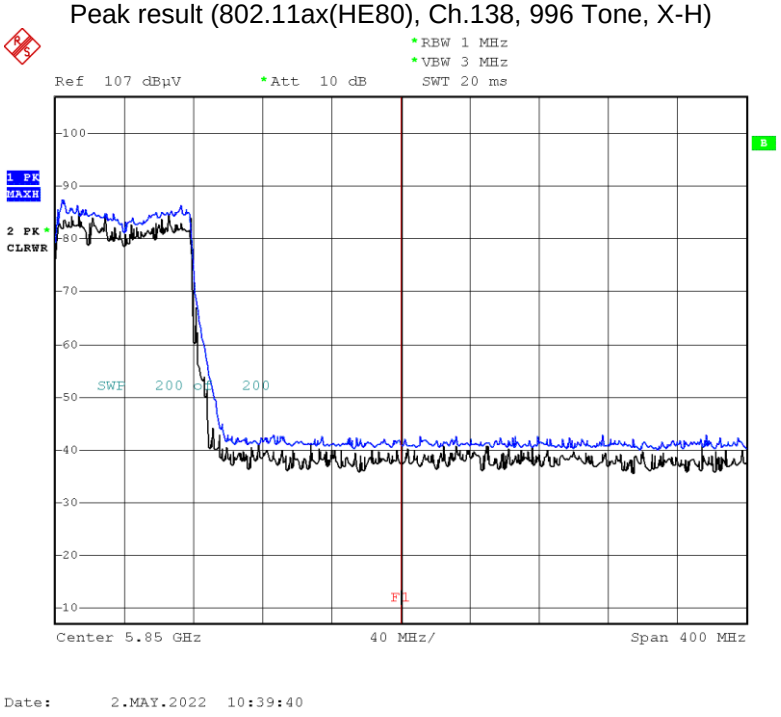
Peak result (802.11ax(HE20), Ch.144, 242 Tone, X-H)



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



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



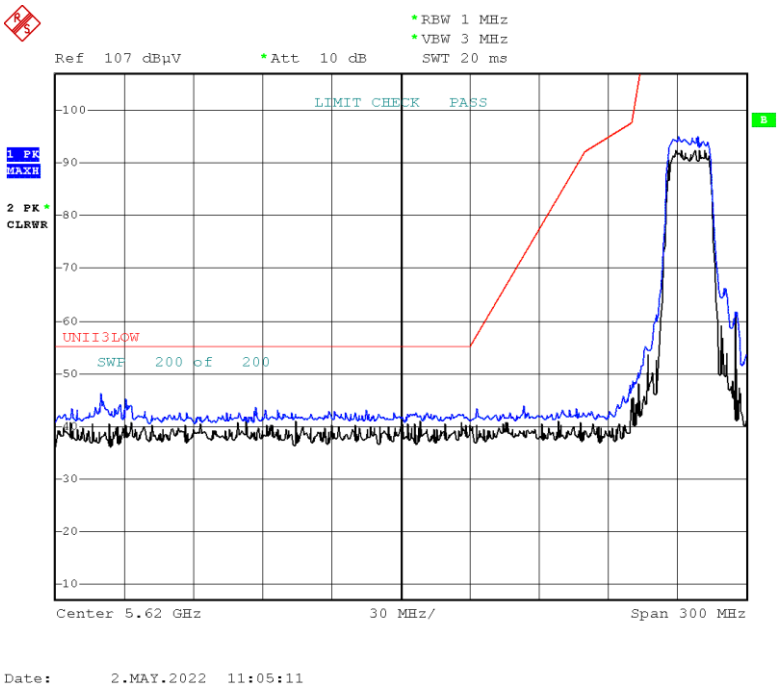
Note :

1. Only the worst case plots for Radiated Restricted Band Edge.
2. Red line : 5850 MHz
3. Ambient Noise (Because of ambient noise, We attached only the worst plot without a data table)

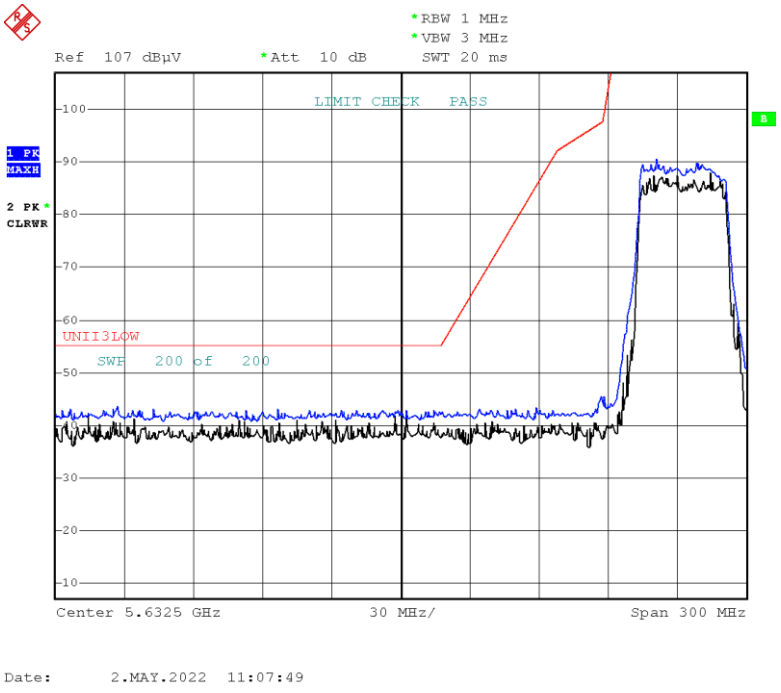
▣ Test Plots(UNII 3)_Low Edge

[MIMO]

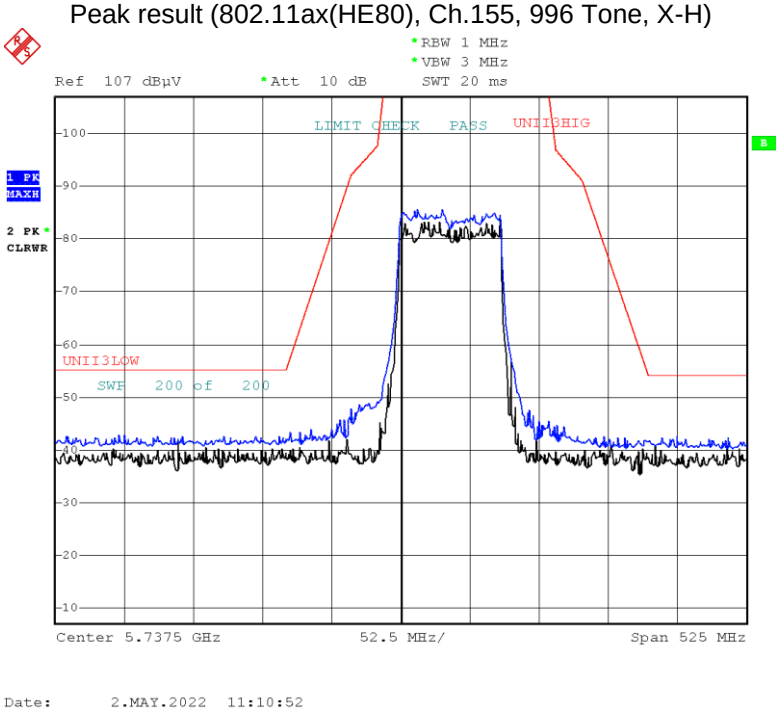
Peak result (802.11ax(HE20), Ch.149, 242 Tone, X-H)



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



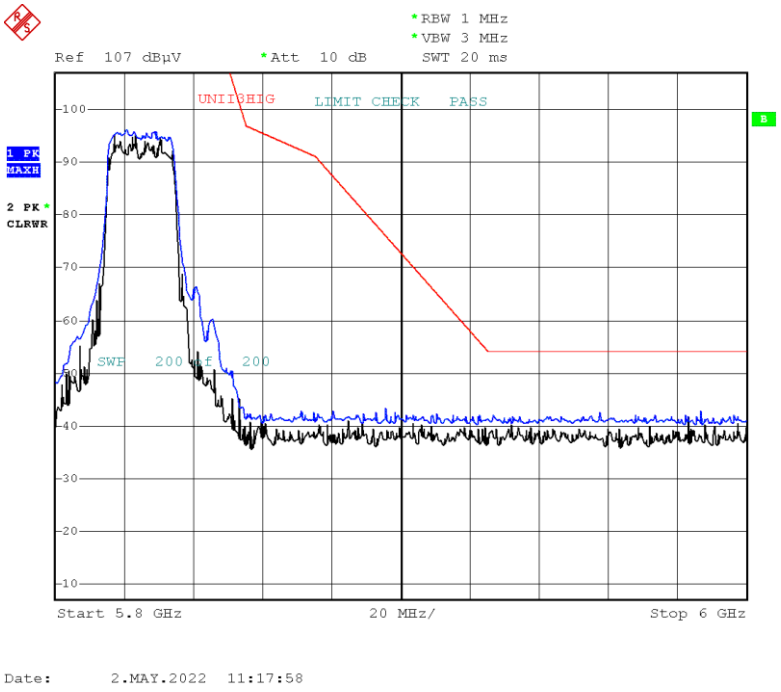
Peak result (802.11ax(HE80), Ch.155, 996 Tone, X-H)



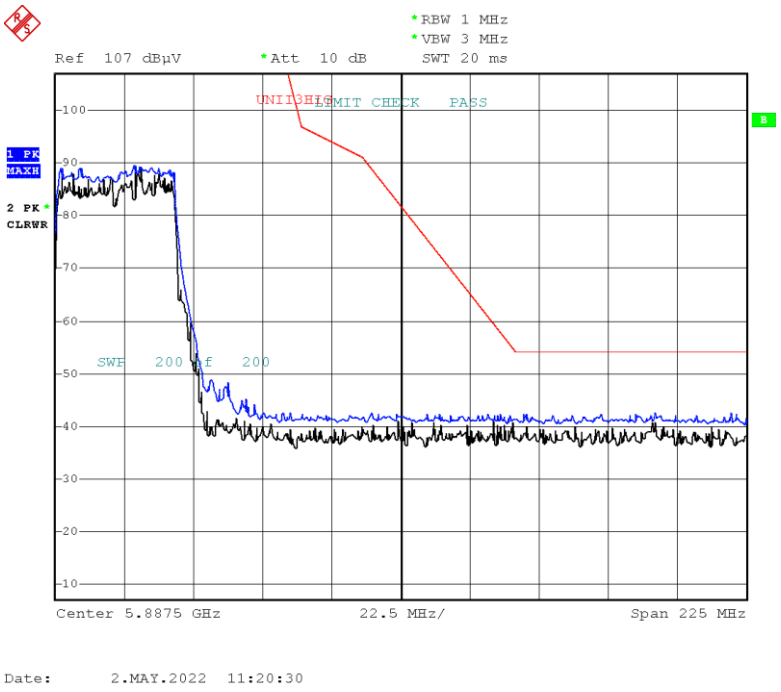
▣ Test Plots(UNII 3)_High Edge

[MIMO]

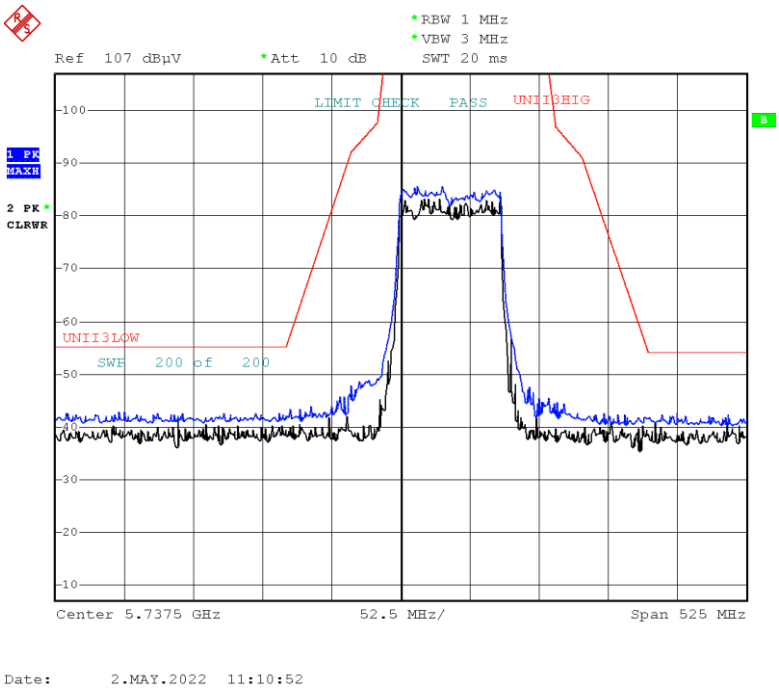
Peak result (802.11ax(HE20), Ch.165, 242 Tone, X-H)



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



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



Note :

1. Only the worst case plots for U-NII-3 Out of Band e.i.r.p Emission.
2. U-NII-3 Low & High Band Edge RedLine is Final Test Limit about factor value compensation.

11. LIST OF TESTEQUIPMENT

Conducted Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
LISN	ENV216	Rohde & Schwarz	102245	08/23/2022	Annual
EMI Test Receiver	ESR	Rohde & Schwarz	101910	06/17/2022	Annual
Temperature Chamber	SU-642	ESPEC	0093008124	03/04/2023	Annual
Signal Analyzer	N9030A	Keysight	MY55410508	09/07/2022	Annual
Power Meter	N1911A	Agilent	MY45100523	03/24/2023	Annual
Power Sensor	N1921A	Agilent	MY57820067	03/24/2023	Annual
Directional Coupler	87300B	Agilent	3116A03621	11/02/2022	Annual
Power Splitter	11667B	Hewlett Packard	10545	02/03/2023	Annual
DC Power Supply	E3646A	Agilent	MY40002937	12/14/2022	Annual
Attenuator(10 dB)(DC-26.5 GHz)	5910-N-50-010	H+S	00801	10/29/2022	Annual
Attenuator(20 dB)	18N-20dB	Rohde & Schwarz	8	03/07/2023	Annual
Software	EMC32	Rohde & Schwarz	N/A	N/A	N/A
FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	HCT CO., LTD.	N/A	N/A	N/A
Bluetooth Tester	CBT	Rohde & Schwarz	100808	02/22/2023	Annual

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

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Controller(Antenna mast)	CO3000	Innco system	CO3000-4p	N/A	N/A
Antenna Position Tower	MA4640/800-XP-EP	Innco system	N/A	N/A	N/A
Controller	EM2090	Emco	060520	N/A	N/A
Turn Table	N/A	Ets	N/A	N/A	N/A
Loop Antenna	FMZB 1513	Rohde & Schwarz	1513-333	03/17/2024	Biennial
Hybrid Antenna	VULB 9168	Schwarzbeck	9168-0895	09/04/2022	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	9120D-1191	11/18/2023	Biennial
Horn Antenna(15 GHz ~ 40 GHz)	BBHA9170	Schwarzbeck	BBHA9170124	04/12/2023	Biennial
Amp &Filter Bank Switch Controller	FBSM-01A	TNM system	0	N/A	N/A
Band Reject Filter	WRCJV2400/2483.5-2370/2520-60/12SS	Wainwright Instruments	2	01/06/2023	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments	5	06/24/2022	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments	6	06/24/2022	Annual
Band Reject Filter	WRCJV5100/5850-40/50-8EEK	Wainwright Instruments	1	02/07/2023	Annual
ATT(3 dB) + LNA2(6~18 GHz)	18B-03, CBL06185030	WEINSCHEL CERNEX	N/A	12/22/2022	Annual
ATT(10 dB) + LNA1(0.1~18 GHz)	56-10, CBLU1183540B-01	Api tech, CERNEX	N/A	12/22/2022	Annual
High Pass Filter	WHKX10-2700-3000-18000-40SS	Wainwright Instruments	N/A	12/22/2022	Annual
High Pass Filter	WHKX8-6090-7000-18000-40SS	Wainwright Instruments	N/A	12/22/2022	Annual
Thru	COAXIAL ATTENUATOR	T&M SYSTEM	N/A	12/22/2022	Annual
Power Amplifier	CBL18265035	CERNEX	22966	12/02/2022	Annual
Power Amplifier	CBL26405040	CERNEX	25956	03/11/2023	Annual
Bluetooth Tester	TC-3000C	TESCOM	3000C000175	04/05/2023	Annual
Spectrum Analyzer	FSP(9 kHz ~ 30 GHz)	Rohde & Schwarz	836650/016	09/13/2022	Annual
Spectrum Analyzer	FSV40-N(9 kHz ~ 30 GHz)	Rohde & Schwarz	101068-SZ	09/15/2022	Annual

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-2205-FC016-P