

FCC UNII REPORT

Certification

Applicant Name:
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Date of Issue:
June 17, 2022

Test Site/Location:
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Report No.: HCT-RF-2206-FC013

FCC ID:	A3LSMG990B2
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APPLICANT:	SAMSUNG Electronics Co., Ltd.
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Model:	SM-G990B2/DS
Additional Model:	SM-G990B2
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.

Report No.: HCT-RF-2206-FC013

REVIEWED BY



Report prepared by : Sang Hoon 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)

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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-RF-2206-FC013	June 17, 2022	- First Approval Report

Table of Contents

REVIEWED BY	2
1. GENERAL INFORMATION	5
EUT DESCRIPTION	5
ANTENNA CONFIGURATIONS	6
2. MAXIMUM OUTPUT POWER	8
3. TEST METHODOLOGY	9
EUT CONFIGURATION	9
EUT EXERCISE	9
GENERAL TEST PROCEDURES	9
DESCRIPTION OF TEST MODES	9
4. INSTRUMENT CALIBRATION.....	10
5. FACILITIES AND ACCREDITATIONS	10
5.1 FACILITIES	10
5.2 EQUIPMENT	10
6. ANTENNA REQUIREMENTS	10
7. MEASUREMENT UNCERTAINTY	11
8. DESCRIPTION OF TESTS.....	12
9. SUMMARY OF TEST RESULTS	30
10. TEST RESULT	31
10.1 DUTY CYCLE.....	31
10.2 26 dB BANDWIDTH& 99% BANDWIDTH	32
10.2.1 SISO Ant1	32
10.2.2 SISO Ant2	38
10.3 6 dB BANDWIDTH	44
10.3.1 SISO Ant1	44
10.3.2 SISO Ant2	45
10.4 OUTPUT POWER MEASUREMENT.....	46
10.4.1 SISO Ant1	46
10.4.2 SISO Ant2	49
10.4.3 SUM (SISO Ant 1 + SISO Ant 2).....	52
10.5 POWER SPECTRAL DENSITY	55
10.5.1 SISO Ant1	55
10.5.2 SISO Ant2	58
10.5.3 SUM (SISO Ant 1 + SISO Ant 2).....	61
10.6 STRADDLE CHANNEL	64
10.6.1 26 dB Bandwidth	64
10.6.1.1 SISO Ant1.....	64
10.6.1.2 SISO Ant2.....	67
10.6.2 6 dB Bandwidth	70
10.6.2.1SISO Ant1	70
10.6.2.2 SISO Ant2.....	73
10.6.3 Output Power	76
10.6.3.1 SISO Ant1.....	76
10.6.3.2 SISO Ant2.....	79
10.6.4 Power Spectral Density	82
10.6.4.1 SISO Ant1	82
10.6.4.2 SISO Ant2.....	85
10.7RADIATED SPURIOUS EMISSIONS (9 kHz – 1 GHz).....	88
10.8 RADIATED SPURIOUS EMISSIONS (Above 1 GHz)	89
10.8.1 802.11ax(HE20).....	89
10.9 RADIATED RESTRICTED BAND EDGE	114
10.9.1MIMO	114
11. LIST OF TESTEQUIPMENT	166
12. ANNEX A_ TEST SETUP PHOTO.....	168

1. GENERAL INFORMATION

EUT DESCRIPTION

Model	SM-G990B2/DS	
Additional Model	SM-G990B2	
EUT Type	Mobile Phone	
Power Supply	DC 4.20 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	May 26, 2022 ~ June 17, 2022	
Serial number	Radiated : R3CT40C5WVL Conducted : 6384e630e2197ece	

ANTENNA CONFIGURATIONS

1. Antenna configuration

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

Note:

- (1) O = Support, X = Not Support
- (2) SISO = Single Input Single Output
- (3) SDM = Spatial Diversity Multiplexing
- (4) CDD = Cyclic Delay Diversity
- (5) SISO test was performed for the MIMO test result.

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

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

DBS	5 GHz WiFi Ant.1	5 GHz WiFi Ant.2	Bluetooth Ant.1
5 GHz 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)
	ANT.1	ANT.2		
UNII 1	ANT.1	-1.8	2 / 2	-0.64
	ANT.2	-6.0		
UNII 2A	ANT.1	-1.8	2 / 2	-0.64
	ANT.2	-6.0		
UNII 2C	ANT.1	-2.1	2 / 2	-0.74
	ANT.2	-5.8		
UNII 3	ANT.1	-1.9	2 / 2	-0.38
	ANT.2	-5.2		

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.

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

Sample MIMO Calculation:

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

Ant1 + Ant 2 = MIMO

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

2. MAXIMUM OUTPUT POWER

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

Band	Mode	SUM	
		(SISO Ant 1 + SISO Ant2) Power	
		(dBm)	(W)
UNII1	802.11ax (HE20)	18.61	0.073
	802.11ax (HE40)	17.74	0.059
	802.11ax (HE80)	16.55	0.045
UNII2A	802.11ax (HE20)	18.82	0.076
	802.11ax (HE40)	18.34	0.068
	802.11ax (HE80)	15.62	0.037
UNII2C	802.11ax (HE20)	19.28	0.085
	802.11ax (HE40)	18.47	0.070
	802.11ax (HE80)	18.16	0.066
UNII3	802.11ax (HE20)	13.58	0.023
	802.11ax (HE40)	13.59	0.023
	802.11ax (HE80)	12.74	0.019

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.

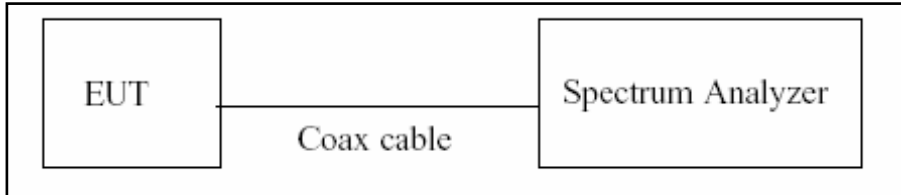
The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

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.

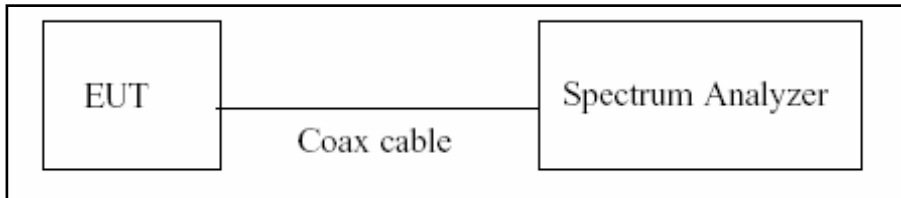
1. RBW = 8 MHz (the largest available value)
2. VBW = 8 MHz (\geq RBW)
3. SPAN = 0 Hz
4. Detector = Peak
5. Number of points in sweep > 100
6. Trace mode = Clear write
7. Measure T_{total} and T_{on}
8. Calculate Duty Cycle = T_{on} / T_{total} and Duty Cycle Factor = $10\log(1/\text{Duty Cycle})$

8.2.6 dB Bandwidth & 26 dB Bandwidth

Limit

Within the 5.725-5.85 GHz 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 $\geq 3 \times$ RBW
3. Detector = Peak
4. Trace mode = Max Hold
5. Allow the trace to stabilize
6. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points(upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note:

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

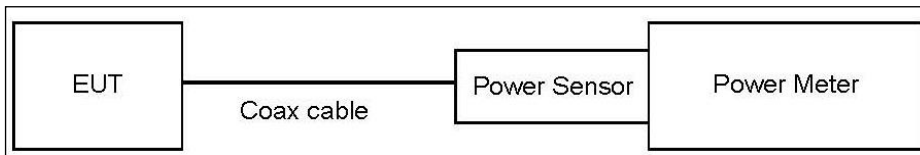
8.3. Output Power Measurement

Limit

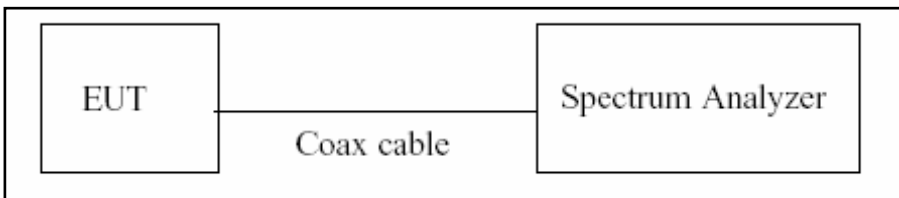
Band	Limit
UNII 1	- Master : Not exceed 1 W(=30 dBm) - Slave : Not exceed 250 mW(=23.98 dBm)
UNII 2A, 2C	Not exceed the lesser of 250 mW or 11 dBm + 10 log B, (where B is the 26 dB emission bandwidth in megahertz.)
UNII 3	Not exceed 1 W(=30 dBm)

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 $10\log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Sample Calculation

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

Note

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 Loss = Attenuator loss(20 dB) + Cable loss + EUT Cable Loss (0.56 dB)

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

Band	Loss(dB)
UNII 1	21.38
UNII 2A	21.38
UNII 2C	21.38
UNII 3	21.38

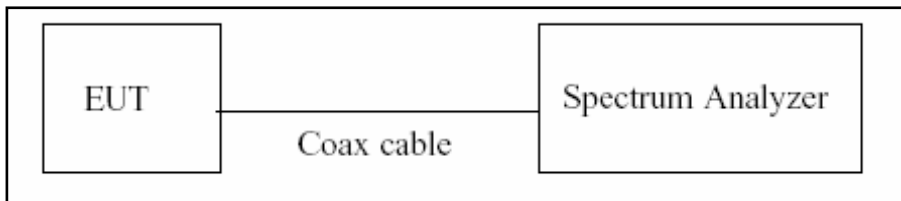
(Actual value of loss for the attenuator and cable combination)

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 Loss = Attenuator loss(20 dB) + Cable loss + EUT Cable (0.56dB)

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

Band	Loss(dB)
UNII 1	21.38
UNII 2A	21.38
UNII 2C	21.38
UNII 3	21.38

(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 μ H/50 ohms line impedance stabilization network (LISN).

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

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

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

Test Configuration

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

Test Procedure

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

Sample Calculation

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

8.6. Radiated Test

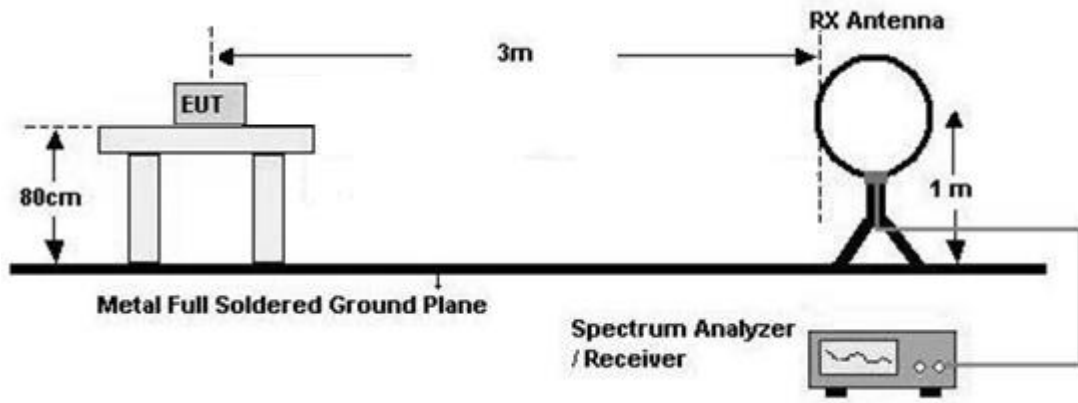
Limit

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

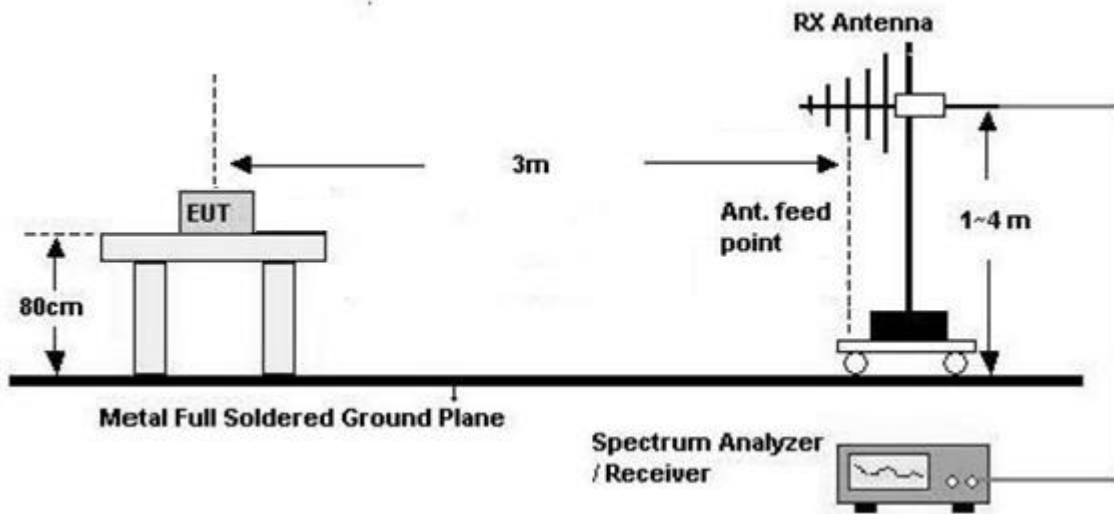
Frequency (MHz)	Field Strength (μ V/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Configuration

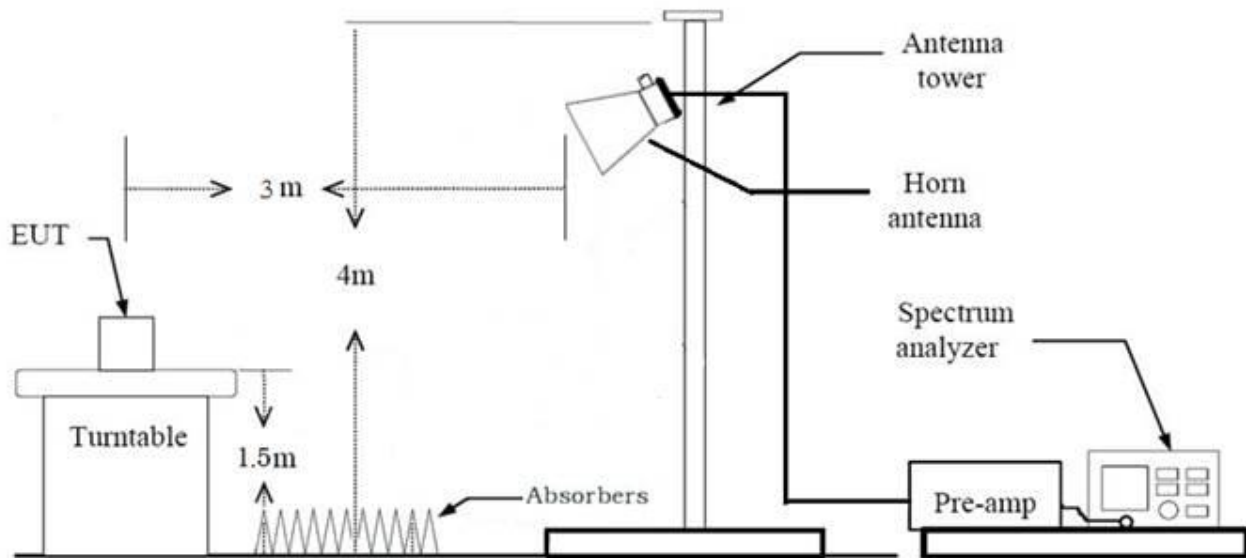
Below 30 MHz



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) = $40\log(3 \text{ m}/300 \text{ m}) = - 80 \text{ dB}$
Measurement Distance : 3 m
7. Distance Correction Factor(0.490 MHz – 30 MHz) = $40\log(3 \text{ m}/30 \text{ m}) = - 40 \text{ dB}$
Measurement Distance : 3 m
8. Spectrum Setting
 - Frequency Range = 9 kHz ~ 30 MHz
 - Detector = Peak
 - Trace = Max Hold
 - RBW = 9 kHz
 - VBW $\geq 3 \times$ RBW
- 9.Total = Measured Value + Antenna Factor(A.F) + Cable Loss(C.L) + Distance Factor(D.F)
10. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

KDB 414788 OFS and Chamber Correlation Justification

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

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

Test Procedure of Radiated spurious emissions(Below 1 GHz)

1. The EUT was placed on a non-conductive table located on semi-anechoic chamber.
2. The EUT is placed on a turntable, which is 0.8m above ground plane.
3. The Hybrid antenna was placed at a location 3 m from the EUT, which is varied from 1 m to 4 m to find out the highest emissions.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
5. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
6. Spectrum Setting
 - (1) Measurement Type(Peak):
 - Measured Frequency Range : 30 MHz – 1 GHz
 - Detector = Peak
 - Trace = Max Hold
 - RBW = 100 kHz
 - VBW \geq 3 x RBW
 - (2) Measurement Type(Quasi-peak):
 - Measured Frequency Range : 30 MHz – 1 GHz
 - Detector = Quasi-Peak
 - RBW = 120 kHz
- ※ In general, (1) is used mainly
- 7.Total = Measured Value + Antenna Factor(A.F) + Cable Loss(C.L)
8. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

Test Procedure of Radiated spurious emissions (Above 1 GHz)

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

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

(2) Measurement Type (Average, G.6.d in KDB 789033 v02r01):

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

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 = $20\log(\text{test distance} / \text{specific distance})$ (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 \geq 3 MHz
 - Detector = Peak
 - Sweep Time = auto
 - Trace mode = Max Hold
 - Allow sweeps to continue until the trace stabilizes.Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately 1/x, where x is the duty cycle.
 - (2) Measurement Type(Average, G.6.d in KDB 789033 v02r01):
 - RBW = 1 MHz
 - VBW(Duty cycle \geq 98 percent) = $\text{VBW} \leq \text{RBW}/100$ (i.e., 10 kHz) but not less than 10 Hz.
 - VBW(Duty cycle is < 98 percent) = $\text{VBW} \geq 1/T$, where T is the minimum transmission duration.
 - The analyzer is set to linear detector mode.
 - Detector = Peak.
 - Sweep time = auto.
 - Trace mode = Max Hold.
 - Allow Max Hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98 percent duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of 1/x, where x is the duty cycle.

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 = $20\log(\text{test distance} / \text{specific distance})$ (dB)

11. Total = Measured Value + Antenna Factor(A.F) + Cable Loss(C.L) - Amp Gain(A.G) + Attenuator(ATT)
+ Distance Factor(D.F)

The actual setting value of VBW

Mode	Tone	Worst Data rate (Mbps)	Duty Cycle	Duty Cycle Factor (dB)	VBW (1/T) (kHz)	The actual setting value of VBW (Hz)
802.11ax (HE20)	26	MCS0	0.993	0.03	0.385	1000
	52	MCS0	0.993	0.03	0.386	1000
	106	MCS0	0.994	0.03	0.410	1000
	242	MCS0	0.993	0.03	0.419	1000
802.11ax (HE40)	26	MCS0	0.994	0.03	0.385	1000
	52	MCS0	0.993	0.03	0.386	1000
	106	MCS0	0.993	0.03	0.411	1000
	242	MCS0	0.994	0.03	0.419	1000
	484	MCS0	0.993	0.03	0.419	1000
802.11ax (HE80)	26	MCS0	0.994	0.03	0.385	1000
	52	MCS0	0.993	0.03	0.386	1000
	106	MCS0	0.993	0.03	0.411	1000
	242	MCS0	0.994	0.03	0.419	1000
	484	MCS0	0.993	0.03	0.420	1000
	996	MCS0	0.994	0.03	0.413	1000
802.11ax (SU)	BW 20	MCS0	0.994	0.03	0.419	1000
	BW 40	MCS0	0.993	0.03	0.419	1000
	BW 80	MCS0	0.993	0.03	0.413	1000

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	-

8.8. Worst case configuration and mode

Conducted test

1. All data rate of operation were investigated and the worst case results are reported.
 - HE20, HE40, HE80 : MCS0
2. SM-G990B2/DS, SM-G990B2 were tested and the worst case results are reported.
(Worst case : SM-G990B2/DS)

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 : X, 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 Antenna of operation were investigated and the worst case results are reported
 - Mode : Ant2(SISO), Ant1+Ant2(SDM), Ant1+Ant2(CDD)
 - Worstcase : Ant1+Ant2(CDD)
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 (Spurious emission worst) 26T, 52T, 106T, 242T	0, 38, 53, 61
Band-Edge (UNII1,2A,2C)	[HE20] : 242T, SU	61
	[HE40] : 484T, SU	65
	[HE80] : 996T, SU	67
	[HE20] ADDITIONAL TONE : 26T, 52T,106T [HE40] ADDITIONAL TONE : 26T, 52T, 106T, 242T [HE80] ADDITIONAL TONE : 26T, 52T, 106T, 242T, 484T	[HE20] Low Edge: 0, 37, 53 High Edge: 8, 40, 54 [HE40] Low Edge: 0, 37, 53, 61 High Edge: 17, 44, 56, 62 [HE80] Low Edge: 0, 37, 53, 61, 65 High Edge: 36, 52, 60, 64, 66
Band-Edge (Straddle, UNII3)	[HE 20] Worst case (Highest Power) : 242T, SU ADDITIONAL TONE : see the test plot	61
	[HE 40] Worst case (Highest Power) : 484T, SU ADDITIONAL TONE : see the test plot	65
	[HE 80] Worst case (Highest Power) : 996T, SU ADDITIONAL TONE : see the test plot	67

7. SM-G990B2/DS, SM-G990B2 were tested and the worst case results are reported.
(Worst case : SM-G990B2/DS)

Radiated test(DBS / RSDB)

1. Please refer to the SM-G990B2/DS [UNII] & [DTS] & [BT] Test Report.
2. SM-G990B2/DS, SM-G990B2 were tested and the worst case results are reported.
(Worst case : SM-G990B2/DS)

AC Power line Conducted Emissions

1. Please refer to the SM-G990B2/DS [UNII] Test Report.
2. SM-G990B2/DS, SM-G990B2 were tested and the worst case results are reported.
(Worst case : SM-G990B2/DS)

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 (Note1)
Undesirable Emissions	§15.407(b) (1),(2),(3),(4)	<-27 dBm/MHz EIRP (UNII1, 2A, 2C) cf. Section 8.6 (UNII 3)		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		Radiated

Note1:

1. Please refer to the SM-G990B2/DS [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	2.437	2.452	0.994	0.03
	242	MCS0	2.389	2.407	0.993	0.03
802.11ax (HE40)	26	MCS0	2.597	2.612	0.994	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	2.404	0.994	0.03
	484	MCS0	2.384	2.402	0.993	0.03
802.11ax (HE80)	26	MCS0	2.597	2.612	0.994	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	2.404	0.994	0.03
	484	MCS0	2.381	2.399	0.993	0.03
	996	MCS0	2.419	2.435	0.994	0.03
802.11ax (SU)	BW 20	MCS0	2.389	2.404	0.994	0.03
	BW 40	MCS0	2.384	2.402	0.993	0.03
	BW 80	MCS0	2.419	2.437	0.993	0.03

Note:

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

10.2 26 dB BANDWIDTH& 99% BANDWIDTH

10.2.1 SISO Ant1

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

Straddle channel data were added in section 10.6.1.

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 1	5180	36	Low	20.57	21.09	21.46	-	-
			Mid	18.75	19.11	-	22.20	22.04
			High	20.57	20.53	20.95	-	-
	5200	40	Low	20.61	20.96	21.42	-	-
			Mid	18.74	19.42	-	22.26	22.34
			High	20.52	20.26	20.96	-	-
	5240	48	Low	20.27	21.03	21.22	-	-
			Mid	18.33	19.13	-	22.26	22.26
			High	20.72	20.51	21.14	-	-
UNII 2A	5260	52	Low	20.74	20.94	21.20	-	-
			Mid	18.63	19.21	-	22.45	22.46
			High	20.42	20.41	20.97	-	-
	5280	56	Low	20.63	21.00	21.41	-	-
			Mid	18.53	19.19	-	22.39	22.49
			High	20.77	20.63	21.12	-	-
	5320	64	Low	20.53	21.13	21.42	-	-
			Mid	18.81	19.16	-	22.35	22.36
			High	20.77	20.61	20.86	-	-
UNII 2C	5500	100	Low	20.44	20.79	21.50	-	-
			Mid	18.83	19.31	-	22.58	22.17
			High	20.61	20.65	20.76	-	-
	5600	120	Low	20.60	20.53	21.44	-	-
			Mid	18.75	19.29	-	22.24	22.46
			High	20.44	20.59	20.92	-	-
	5720	144	Low	20.50	21.03	21.45	-	-
			Mid	18.49	18.95	-	22.29	22.40
			High	20.78	20.47	21.19	-	-
UNII 3	5745	149	Low	20.69	20.95	21.33	-	-
			Mid	18.83	18.91	-	22.16	22.24
			High	20.43	20.43	21.08	-	-
	5785	157	Low	20.50	20.94	21.43	-	-
			Mid	18.71	18.94	-	22.09	22.14
			High	20.55	20.63	21.15	-	-
	5825	165	Low	20.57	20.89	21.53	-	-
			Mid	18.79	19.20	-	22.38	21.99
			High	20.76	20.49	20.92	-	-

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	40.33	40.81	41.28	42.45	-	-
			Mid	38.10	38.16	39.36	-	44.20	44.10
			High	40.13	41.11	41.32	41.94	-	-
	5230	46	Low	40.46	40.80	41.20	42.37	-	-
			Mid	38.11	38.18	39.14	-	44.14	44.43
			High	40.39	40.87	41.14	41.32	-	-
UNII 2A	5270	54	Low	40.21	40.98	41.82	42.68	-	-
			Mid	38.18	38.25	39.41	-	44.35	44.56
			High	40.31	40.80	41.45	41.97	-	-
	5310	62	Low	40.53	40.50	41.43	42.41	-	-
			Mid	38.08	38.39	39.41	-	44.30	44.20
			High	40.31	40.57	41.87	41.95	-	-
UNII 2C	5510	102	Low	40.25	40.50	41.18	42.12	-	-
			Mid	37.95	38.28	39.19	-	44.31	44.00
			High	40.25	40.73	41.80	41.28	-	-
	5590	118	Low	39.98	41.01	41.28	42.44	-	-
			Mid	37.92	38.36	39.38	-	44.10	44.33
			High	40.38	40.90	41.68	41.46	-	-
	5710	142	Low	40.17	40.89	41.50	42.32	-	-
			Mid	38.05	38.18	38.30	-	44.35	44.25
			High	40.12	40.71	42.09	41.93	-	-
UNII 3	5755	151	Low	40.38	40.98	41.26	42.03	-	-
			Mid	38.00	38.34	39.04	-	44.16	44.20
			High	40.28	40.88	41.38	41.82	-	-
	5795	159	Low	40.59	41.10	41.09	41.79	-	-
			Mid	38.16	38.22	39.30	-	44.14	44.28
			High	40.92	41.22	41.58	41.66	-	-

802.11ax(HE80)

HE80	Freq. [MHz]	Channel No.	RU Index	26 dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1	5210	42	Low	81.76	83.24	84.40	83.32	85.71	-	-
			Mid	78.40	78.46	79.60	80.81	-	88.09	87.11
			High	80.90	82.48	82.84	83.31	84.04	-	-
UNII 2A	5290	58	Low	81.74	83.29	83.93	83.51	86.74	-	-
			Mid	78.36	78.62	79.58	80.86	-	88.27	87.88
			High	81.18	83.10	82.97	83.10	85.73	-	-
UNII 2C	5530	106	Low	81.61	83.17	83.71	82.60	86.84	-	-
			Mid	78.29	78.40	79.51	80.29	-	87.63	88.19
			High	80.84	82.71	82.76	83.39	83.85	-	-
	5610	122	Low	81.46	83.31	84.18	82.87	87.34	-	-
			Mid	78.33	78.36	79.32	79.74	-	86.82	88.05
			High	80.93	83.00	82.95	84.69	85.20	-	-
	5690	138	Low	82.39	83.27	83.86	84.22	86.20	-	-
			Mid	78.03	78.28	79.65	80.04	-	87.61	87.14
			High	81.27	82.92	82.86	84.21	85.09	-	-
UNII 3	5775	155	Low	81.66	83.31	84.44	83.48	86.60	-	-
			Mid	78.39	78.41	79.35	80.64	-	87.59	88.19
			High	80.97	82.32	82.61	83.55	85.60	-	-

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	18.458	18.356	18.273	-	-
			Mid	17.294	17.274	-	19.075	19.060
			High	18.618	18.190	18.362	-	-
	5200	40	Low	18.521	18.341	18.235	-	-
			Mid	17.202	17.140	-	19.065	19.055
			High	18.611	18.278	18.336	-	-
	5240	48	Low	18.504	18.287	18.301	-	-
			Mid	17.319	17.266	-	19.056	19.117
			High	18.646	18.122	18.339	-	-
UNII 2A	5260	52	Low	18.549	17.942	18.264	-	-
			Mid	17.277	17.254	-	19.079	19.073
			High	18.569	18.287	18.340	-	-
	5280	56	Low	18.542	18.213	18.280	-	-
			Mid	17.025	17.312	-	19.051	19.066
			High	18.356	18.262	18.313	-	-
	5320	64	Low	18.503	18.365	18.237	-	-
			Mid	16.999	17.280	-	19.074	19.041
			High	18.647	18.223	18.333	-	-
UNII 2C	5500	100	Low	18.490	18.319	18.198	-	-
			Mid	17.284	17.252	-	19.053	19.061
			High	18.668	18.201	18.320	-	-
	5600	120	Low	18.556	18.236	18.265	-	-
			Mid	17.283	17.295	-	19.050	19.057
			High	18.636	18.304	18.380	-	-
	5720	144	Low	18.490	18.248	18.267	-	-
			Mid	17.327	17.225	-	19.063	19.073
			High	18.657	18.270	18.355	-	-
UNII 3	5745	149	Low	18.499	18.328	18.258	-	-
			Mid	17.138	17.211	-	19.049	19.062
			High	18.584	18.274	18.344	-	-
	5785	157	Low	18.558	18.300	18.250	-	-
			Mid	17.160	17.168	-	19.064	19.041
			High	18.650	18.315	18.341	-	-
	5825	165	Low	18.411	18.382	18.181	-	-
			Mid	17.273	17.190	-	19.046	19.049
			High	18.636	18.268	18.374	-	-

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	37.917	37.787	37.514	37.291	-	-
			Mid	36.124	35.913	36.336	-	37.977	37.968
			High	37.785	37.526	37.562	37.347	-	-
	5230	46	Low	37.917	37.771	37.400	37.378	-	-
			Mid	36.105	36.081	36.190	-	37.954	37.950
			High	38.060	37.634	37.435	37.323	-	-
UNII 2A	5270	54	Low	38.043	37.755	37.508	37.336	-	-
			Mid	36.249	36.353	36.242	-	37.986	38.005
			High	38.126	37.813	37.618	37.383	-	-
	5310	62	Low	38.042	37.667	37.398	37.361	-	-
			Mid	36.235	36.128	36.306	-	37.994	37.960
			High	38.001	37.660	37.607	37.391	-	-
UNII 2C	5510	102	Low	37.823	37.633	37.486	37.207	-	-
			Mid	36.102	36.289	36.368	-	37.960	37.935
			High	38.142	37.735	37.537	37.329	-	-
	5590	118	Low	37.949	37.627	37.273	37.331	-	-
			Mid	35.781	36.245	36.349	-	37.917	37.966
			High	37.915	37.618	37.477	37.350	-	-
	5710	142	Low	37.732	37.719	37.264	37.281	-	-
			Mid	36.056	36.104	35.937	-	37.900	37.991
			High	38.075	37.647	37.554	37.385	-	-
UNII 3	5755	151	Low	37.943	37.689	37.408	37.307	-	-
			Mid	35.939	36.195	36.389	-	37.968	37.929
			High	37.996	37.724	37.549	37.383	-	-
	5795	159	Low	38.120	37.353	37.361	37.270	-	-
			Mid	36.046	36.184	36.235	-	37.953	37.909
			High	38.326	37.702	37.593	37.297	-	-

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	78.640	78.140	77.685	77.200	76.898	-	-
			Mid	75.210	74.705	75.017	74.913	-	77.816	77.812
			High	78.223	77.746	77.145	76.538	76.216	-	-
UNII 2A	5290	58	Low	78.605	78.494	77.575	77.049	76.738	-	-
			Mid	74.916	74.789	75.081	74.977	-	77.843	77.775
			High	78.529	78.359	77.190	76.817	76.602	-	-
UNII 2C	5530	106	Low	78.569	78.051	77.498	76.971	76.767	-	-
			Mid	75.285	74.489	75.076	75.260	-	77.886	77.692
			High	78.589	77.981	77.277	76.559	76.635	-	-
	5610	122	Low	78.640	78.066	77.619	77.052	76.802	-	-
			Mid	74.605	74.732	74.783	75.234	-	77.785	77.841
			High	78.478	77.919	77.372	77.031	76.630	-	-
	5690	138	Low	78.773	78.076	77.369	77.054	76.862	-	-
			Mid	75.097	74.431	74.787	75.233	-	77.780	77.811
			High	77.977	77.777	77.236	76.850	76.613	-	-
UNII 3	5775	155	Low	78.665	78.184	77.632	77.091	76.694	-	-
			Mid	75.010	74.703	74.832	75.168	-	77.884	77.785
			High	78.494	77.761	77.203	76.893	76.534	-	-

10.2.2 SISO Ant2

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

Straddle channel data were added in section 10.6.1.

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 1	5180	36	Low	20.53	21.03	21.50	-	-
			Mid	18.80	19.16	-	22.07	21.93
			High	20.81	20.61	21.09	-	-
	5200	40	Low	20.62	21.13	21.50	-	-
			Mid	18.70	19.05	-	22.36	22.19
			High	20.77	20.58	20.90	-	-
	5240	48	Low	20.60	20.73	21.29	-	-
			Mid	18.77	19.14	-	22.16	22.03
			High	20.47	20.50	20.93	-	-
UNII 2A	5260	52	Low	20.21	20.69	21.49	-	-
			Mid	18.73	19.27	-	22.39	22.26
			High	20.36	20.57	21.07	-	-
	5280	56	Low	20.67	20.78	21.31	-	-
			Mid	18.59	18.92	-	22.40	22.29
			High	20.74	20.74	20.83	-	-
	5320	64	Low	20.71	20.73	21.25	-	-
			Mid	18.85	19.19	-	22.39	22.43
			High	20.71	20.58	20.89	-	-
UNII 2C	5500	100	Low	20.45	20.90	21.45	-	-
			Mid	18.73	19.23	-	22.38	22.35
			High	20.53	20.95	21.27	-	-
	5600	120	Low	20.60	20.89	20.92	-	-
			Mid	18.85	19.36	-	22.14	22.14
			High	20.47	20.54	21.07	-	-
	5720	144	Low	20.69	21.44	21.33	-	-
			Mid	18.64	19.05	-	22.46	22.12
			High	20.83	20.37	21.10	-	-
UNII 3	5745	149	Low	20.70	20.81	21.58	-	-
			Mid	18.77	19.34	-	22.07	22.20
			High	20.74	20.42	20.96	-	-
	5785	157	Low	20.63	20.62	21.37	-	-
			Mid	18.73	19.15	-	22.32	22.56
			High	20.52	20.47	20.88	-	-
	5825	165	Low	20.62	21.23	21.28	-	-
			Mid	18.83	19.44	-	22.04	22.18
			High	20.62	20.62	20.94	-	-

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	40.49	40.50	41.30	42.65	-	-
			Mid	38.21	38.17	39.20	-	43.98	43.94
			High	40.28	40.48	41.09	41.80	-	-
	5230	46	Low	40.49	40.61	41.36	41.91	-	-
			Mid	38.12	38.30	38.98	-	44.47	44.03
			High	40.11	40.59	41.01	41.43	-	-
UNII 2A	5270	54	Low	40.32	40.82	40.99	42.63	-	-
			Mid	38.10	38.24	39.28	-	44.27	44.17
			High	40.19	40.71	41.72	41.67	-	-
	5310	62	Low	40.40	40.52	41.15	43.64	-	-
			Mid	38.12	38.21	39.35	-	44.15	44.17
			High	40.24	40.75	40.64	41.65	-	-
UNII 2C	5510	102	Low	40.33	41.04	41.23	42.27	-	-
			Mid	38.12	38.24	39.02	-	44.16	44.28
			High	40.24	40.59	41.34	41.27	-	-
	5590	118	Low	40.38	40.89	41.20	42.13	-	-
			Mid	38.13	38.32	38.96	-	44.23	44.32
			High	40.30	41.16	41.31	41.70	-	-
	5710	142	Low	40.20	40.85	41.02	42.15	-	-
			Mid	38.07	38.17	39.06	-	44.09	44.37
			High	40.37	40.60	40.96	41.52	-	-
UNII 3	5755	151	Low	40.39	40.73	41.13	41.65	-	-
			Mid	38.10	38.35	38.85	-	44.23	44.43
			High	40.16	40.65	41.50	41.71	-	-
	5795	159	Low	40.36	40.73	41.32	41.54	-	-
			Mid	38.10	38.41	39.41	-	44.30	44.50
			High	40.58	40.85	41.58	41.81	-	-

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	80.97	82.14	84.46	83.55	86.01	-	-
			Mid	78.34	78.19	79.76	80.75	-	87.23	87.47
			High	81.58	81.58	82.75	83.24	84.61	-	-
UNII 2A	5290	58	Low	83.01	82.23	84.38	83.67	86.23	-	-
			Mid	78.17	78.14	79.69	79.98	-	87.53	87.09
			High	81.44	82.08	83.03	83.97	84.61	-	-
UNII 2C	5530	106	Low	81.73	82.02	84.29	83.39	86.43	-	-
			Mid	78.33	78.49	79.11	80.30	-	86.96	87.06
			High	81.12	82.56	82.27	83.25	84.52	-	-
	5610	122	Low	81.44	81.67	83.69	84.91	86.45	-	-
			Mid	78.34	77.75	79.64	80.71	-	86.73	87.92
			High	81.91	81.98	83.07	83.54	84.67	-	-
	5690	138	Low	82.88	82.19	83.77	83.82	86.51	-	-
			Mid	78.20	78.08	79.17	79.80	-	87.41	87.37
			High	80.98	81.65	82.75	83.79	85.38	-	-
UNII 3	5775	155	Low	82.01	81.62	82.96	83.42	87.22	-	-
			Mid	78.24	78.57	78.96	80.64	-	87.81	87.90
			High	81.21	81.55	82.83	82.53	84.86	-	-

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	18.433	18.361	18.245	-	-
			Mid	17.199	17.249	-	19.072	19.077
			High	18.699	18.300	18.353	-	-
	5200	40	Low	18.559	18.336	18.262	-	-
			Mid	17.237	17.314	-	19.049	19.065
			High	18.654	18.277	18.351	-	-
	5240	48	Low	18.550	18.319	18.233	-	-
			Mid	17.254	16.798	-	19.053	19.083
			High	18.639	18.195	18.262	-	-
UNII 2A	5260	52	Low	18.513	18.339	18.265	-	-
			Mid	17.250	17.211	-	19.087	19.072
			High	18.554	18.226	18.362	-	-
	5280	56	Low	18.508	18.313	18.252	-	-
			Mid	17.283	17.181	-	19.092	19.067
			High	18.735	18.189	18.180	-	-
	5320	64	Low	18.446	18.337	18.189	-	-
			Mid	17.274	17.261	-	19.068	19.073
			High	18.659	18.280	18.354	-	-
UNII 2C	5500	100	Low	18.568	17.985	18.257	-	-
			Mid	17.246	17.235	-	19.058	19.073
			High	18.663	18.300	18.377	-	-
	5600	120	Low	18.508	18.252	18.237	-	-
			Mid	17.198	17.293	-	19.074	19.075
			High	18.541	18.325	18.283	-	-
	5720	144	Low	18.549	18.358	18.014	-	-
			Mid	17.271	17.192	-	19.074	19.054
			High	18.647	18.293	18.244	-	-
UNII 3	5745	149	Low	18.083	18.302	18.317	-	-
			Mid	17.320	17.060	-	19.051	19.041
			High	18.560	18.193	18.357	-	-
	5785	157	Low	18.506	18.296	18.239	-	-
			Mid	17.236	17.285	-	19.049	19.048
			High	18.559	18.218	18.265	-	-
	5825	165	Low	18.557	18.371	18.273	-	-
			Mid	17.271	17.246	-	19.022	19.061
			High	18.708	18.099	18.338	-	-

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	38.113	37.669	37.362	37.241	-	-
			Mid	36.085	35.902	36.126	-	37.954	37.938
			High	38.041	37.560	37.541	37.341	-	-
	5230	46	Low	38.042	37.673	37.324	37.272	-	-
			Mid	36.273	35.974	36.300	-	37.966	37.930
			High	38.083	37.424	37.483	37.352	-	-
UNII 2A	5270	54	Low	38.060	37.769	37.427	37.357	-	-
			Mid	36.189	36.239	36.305	-	37.997	37.953
			High	37.928	37.558	37.585	37.298	-	-
	5310	62	Low	37.920	37.699	37.342	37.351	-	-
			Mid	36.043	36.164	36.066	-	37.983	37.980
			High	38.100	37.591	37.430	37.328	-	-
UNII 2C	5510	102	Low	37.888	37.641	37.357	37.211	-	-
			Mid	36.247	36.140	36.316	-	37.974	37.960
			High	38.105	37.598	37.459	37.353	-	-
	5590	118	Low	37.961	37.727	37.356	37.323	-	-
			Mid	36.241	36.127	35.921	-	37.971	37.968
			High	38.092	38.003	37.588	37.238	-	-
	5710	142	Low	37.881	37.762	37.423	37.234	-	-
			Mid	36.202	36.188	36.264	-	37.986	37.970
			High	38.070	37.504	37.344	37.278	-	-
UNII 3	5755	151	Low	38.028	37.745	37.387	37.209	-	-
			Mid	36.192	36.176	36.384	-	37.946	37.953
			High	37.831	37.721	37.674	37.349	-	-
	5795	159	Low	37.954	37.605	37.250	37.372	-	-
			Mid	36.215	35.851	36.299	-	37.932	37.972
			High	38.177	37.670	37.624	37.403	-	-

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	78.313	78.302	77.716	76.910	76.965	-	-
			Mid	75.095	74.749	75.127	75.215	-	77.855	77.823
			High	78.578	77.679	77.124	76.838	76.512	-	-
UNII 2A	5290	58	Low	79.289	78.067	77.777	76.912	76.738	-	-
			Mid	75.286	74.718	74.843	75.103	-	77.726	77.870
			High	78.587	77.813	77.120	76.889	76.627	-	-
UNII 2C	5530	106	Low	78.745	77.974	77.196	77.033	76.912	-	-
			Mid	75.154	74.727	74.978	75.096	-	77.829	77.837
			High	78.565	78.121	77.186	76.842	76.612	-	-
	5610	122	Low	78.526	78.103	77.443	77.270	76.902	-	-
			Mid	75.153	74.270	75.224	75.101	-	77.786	77.782
			High	78.444	78.548	77.025	77.003	76.695	-	-
	5690	138	Low	79.184	78.150	77.694	77.171	76.896	-	-
			Mid	75.043	74.375	74.989	75.099	-	77.839	77.869
			High	78.554	77.815	77.151	76.729	76.613	-	-
UNII 3	5775	155	Low	78.836	78.100	77.450	77.000	77.045	-	-
			Mid	74.881	74.836	75.098	75.290	-	77.837	77.758
			High	78.281	77.835	77.353	76.839	76.633	-	-

10.3 6 dB BANDWIDTH

10.3.1 SISO 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	2.146	17.11	17.16	-	-
			Mid	2.681	15.06	-	19.08	19.07
			High	2.136	17.06	17.14	-	-
	5785	157	Low	2.148	17.10	17.16	-	-
			Mid	2.693	15.06	-	19.09	19.09
			High	2.109	17.08	17.09	-	-
	5825	165	Low	2.108	17.10	17.15	-	-
			Mid	2.698	13.87	-	19.10	19.10
			High	2.121	17.06	17.14	-	-

Limit : > 0.5 MHz

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	6 dB BW(MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 3	5755	151	Low	2.162	4.230	36.59	37.66	-	-
			Mid	2.140	4.137	35.05	-	38.23	38.16
			High	2.136	4.133	36.50	36.94	-	-
	5795	159	Low	2.177	4.184	36.62	36.73	-	-
			Mid	2.148	4.153	35.07	-	38.23	38.22
			High	2.139	4.200	36.60	36.95	-	-

Limit : > 0.5 MHz

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	6 dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 3	5775	155	Low	2.223	4.272	8.434	76.71	76.83	-	-
			Mid	2.817	4.260	8.485	75.09	-	78.26	78.24
			High	2.273	4.285	8.426	75.52	76.84	-	-

Limit : > 0.5 MHz

10.3.2 SISO 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	2.146	17.08	17.16	-	-
			Mid	2.695	15.13	-	19.09	19.09
			High	2.149	14.57	17.16	-	-
	5785	157	Low	2.147	17.07	17.13	-	-
			Mid	2.668	15.12	-	19.11	19.09
			High	2.086	17.06	17.15	-	-
	5825	165	Low	2.147	17.12	18.11	-	-
			Mid	2.690	15.07	-	19.09	19.10
			High	2.132	17.06	15.91	-	-

Limit : > 0.5 MHz

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	6 dB BW(MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 3	5755	151	Low	2.147	4.224	36.59	36.75	-	-
			Mid	2.154	4.163	33.79	-	38.22	38.16
			High	2.138	4.176	36.60	36.94	-	-
	5795	159	Low	2.161	4.202	36.60	36.74	-	-
			Mid	2.134	4.161	35.06	-	38.24	38.24
			High	2.130	4.200	35.34	36.96	-	-

Limit : > 0.5 MHz

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	6 dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 3	5775	155	Low	2.227	4.320	8.447	71.76	76.91	-	-
			Mid	2.817	4.306	8.443	75.12	-	78.26	78.24
			High	2.258	4.308	8.423	76.82	76.90	-	-

Limit : > 0.5 MHz

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 SISO Ant1

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	7.41	11.25	14.25	-	-
				Mid	7.46	11.36	-	15.91	15.90
				High	7.65	11.49	14.42	-	-
		5200	40	Low	7.39	11.26	14.25	-	-
				Mid	7.44	11.34	-	15.90	15.90
				High	7.57	11.43	14.36	-	-
		5240	48	Low	7.42	11.30	14.30	-	-
				Mid	7.36	11.34	-	15.85	15.84
				High	7.38	11.29	14.24	-	-
	UNII 2a	5260	52	Low	7.65	11.50	14.52	-	-
				Mid	7.52	11.49	-	16.08	16.08
				High	7.53	11.38	14.41	-	-
		5280	56	Low	7.48	11.37	14.38	-	-
				Mid	7.44	11.37	-	16.00	16.00
				High	7.50	11.35	14.38	-	-
		5320	64	Low	7.27	11.86	14.75	-	-
				Mid	7.18	11.88	-	15.31	15.32
				High	7.20	11.81	14.70	-	-
	UNII 2c	5500	100	Low	6.82	10.48	13.73	-	-
				Mid	6.78	10.50	-	15.52	15.52
				High	6.81	10.47	13.72	-	-
		5600	120	Low	8.06	11.69	14.74	-	-
				Mid	7.92	11.68	-	16.24	16.24
				High	7.89	11.56	14.65	-	-
		5720	144	Low	8.45	11.90	14.54	-	-
				Mid	8.35	11.87	-	15.37	15.39
				High	8.30	11.88	14.35	-	-
	UNII 3	5745	149	Low	10.10	10.53	10.58	-	-
				Mid	10.01	10.57	-	10.63	10.63
				High	10.09	10.51	10.59	-	-
5785		157	Low	9.15	9.64	9.74	-	-	
			Mid	9.08	9.64	-	9.76	9.76	
			High	9.12	9.59	9.69	-	-	
5825		165	Low	9.18	9.58	9.71	-	-	
			Mid	9.10	9.58	-	9.72	9.72	
			High	9.14	9.54	9.68	-	-	

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	6.31	9.82	13.98	14.07	-	-
				Mid	6.93	10.39	14.32	-	12.35	15.12
				High	6.65	10.24	14.33	14.31	-	-
		5230	46	Low	6.29	9.67	14.09	15.04	-	-
				Mid	6.73	10.09	14.36	-	15.11	15.10
				High	6.30	9.72	14.14	15.07	-	-
	UNII 2a	5270	54	Low	6.54	10.30	14.34	15.22	-	-
				Mid	6.71	10.47	14.44	-	15.23	15.22
				High	6.30	10.14	14.19	15.13	-	-
		5310	62	Low	6.19	10.59	12.87	12.89	-	-
				Mid	6.50	10.86	12.95	-	11.83	15.33
				High	6.05	10.60	12.78	12.84	-	-
	UNII 2c	5510	102	Low	5.76	9.37	11.40	10.41	-	-
				Mid	6.03	9.56	11.54	-	10.41	13.54
				High	5.54	9.15	11.19	10.28	-	-
		5590	118	Low	7.08	10.49	14.65	15.52	-	-
				Mid	7.27	10.67	14.78	-	15.52	15.51
				High	6.74	10.23	14.43	15.39	-	-
		5710	142	Low	7.69	10.84	14.66	14.53	-	-
				Mid	7.84	10.92	14.76	-	14.49	14.50
				High	7.25	10.68	14.31	14.31	-	-
	UNII 3	5755	151	Low	9.96	10.35	10.52	10.58	-	-
				Mid	10.32	10.67	10.72	-	10.68	10.69
				High	10.03	10.39	10.56	10.62	-	-
5795		159	Low	9.12	9.47	9.64	9.66	-	-	
			Mid	9.35	9.63	9.74	-	9.62	9.64	
			High	8.81	9.18	9.34	9.44	-	-	

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	5.78	9.72	13.42	13.54	12.80	-	-
				Mid	6.53	10.34	13.96	13.81	-	13.01	13.88
				High	6.46	10.28	13.95	14.02	13.13	-	-
	UNII 2A	5290	58	Low	6.53	10.72	12.03	12.04	12.00	-	-
				Mid	6.44	10.66	11.95	11.99	-	11.97	13.10
				High	6.20	10.44	11.76	11.84	11.89	-	-
	UNII 2C	5530	106	Low	5.73	9.62	11.06	11.09	10.05	-	-
				Mid	5.63	9.52	10.90	11.01	-	10.96	13.13
				High	5.53	9.22	10.65	10.76	9.81	-	-
		5610	122	Low	7.13	10.81	14.35	15.27	15.21	-	-
				Mid	6.97	10.62	14.10	15.18	-	14.14	14.15
				High	6.43	10.15	13.71	14.70	14.81	-	-
		5690	138	Low	7.68	11.29	14.25	14.19	14.25	-	-
				Mid	7.88	11.49	14.38	14.29	-	14.28	14.28
				High	7.37	11.00	13.97	13.99	14.08	-	-
UNII 3	5775	155	Low	9.17	9.22	9.25	9.30	9.26	-	-	
			Mid	9.31	9.38	9.33	9.39	-	9.27	9.27	
			High	8.93	8.98	9.01	9.14	9.22	-	-	

10.4.2 SISO Ant2

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	6.38	10.02	12.98	-	-
				Mid	6.43	10.11	-	15.08	15.04
				High	6.63	10.27	13.12	-	-
		5200	40	Low	6.48	10.12	13.06	-	-
				Mid	6.50	10.20	-	15.12	15.09
				High	6.63	10.20	13.19	-	-
		5240	48	Low	6.77	10.38	13.36	-	-
				Mid	6.68	10.34	-	15.34	15.33
				High	6.70	10.30	13.30	-	-
	UNII 2a	5260	52	Low	7.02	10.33	13.55	-	-
				Mid	6.90	10.33	-	15.52	15.51
				High	6.97	10.27	13.51	-	-
		5280	56	Low	7.06	10.38	13.58	-	-
				Mid	6.95	10.42	-	15.57	15.54
				High	7.02	10.32	13.59	-	-
		5320	64	Low	7.65	11.25	14.35	-	-
				Mid	7.53	11.26	-	16.23	16.19
				High	7.59	11.21	14.28	-	-
	UNII 2c	5500	100	Low	6.78	10.43	13.33	-	-
				Mid	6.72	10.38	-	15.19	15.16
				High	6.76	10.37	13.32	-	-
		5600	120	Low	7.85	11.31	14.43	-	-
				Mid	7.74	11.31	-	16.29	16.27
				High	7.80	11.27	14.40	-	-
		5720	144	Low	7.85	11.33	14.70	-	-
				Mid	7.71	11.30	-	16.53	16.50
				High	7.70	11.20	14.63	-	-
	UNII 3	5745	149	Low	9.77	10.26	10.52	-	-
				Mid	9.72	10.29	-	10.52	10.49
				High	9.77	10.32	10.46	-	-
5785		157	Low	9.79	10.36	10.52	-	-	
			Mid	9.70	10.38	-	10.51	10.45	
			High	9.74	10.33	10.43	-	-	
5825		165	Low	10.12	10.45	10.58	-	-	
			Mid	10.03	10.48	-	10.57	10.53	
			High	10.08	10.46	10.54	-	-	

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	5.55	8.54	12.73	12.87	-	-
				Mid	5.90	8.71	13.04	-	11.11	14.02
				High	5.70	8.54	13.07	13.08	-	-
		5230	46	Low	5.76	8.55	13.16	14.24	-	-
				Mid	6.20	8.95	13.38	-	14.32	14.31
				High	5.83	8.64	13.17	14.26	-	-
	UNII 2a	5270	54	Low	6.06	8.85	13.42	14.43	-	-
				Mid	6.37	9.10	13.56	-	14.50	14.51
				High	6.06	8.88	13.42	14.43	-	-
		5310	62	Low	6.78	9.75	12.34	12.39	-	-
				Mid	7.04	10.01	12.50	-	11.34	15.32
				High	6.65	9.69	12.21	12.33	-	-
	UNII 2c	5510	102	Low	5.81	8.78	11.27	10.38	-	-
				Mid	6.10	9.05	11.44	-	10.38	13.28
				High	5.66	8.72	11.20	10.29	-	-
		5590	118	Low	6.85	10.05	14.31	15.35	-	-
				Mid	7.14	10.27	14.46	-	15.40	15.38
				High	6.76	9.97	14.24	15.29	-	-
		5710	142	Low	6.94	10.30	14.56	15.49	-	-
				Mid	7.23	10.52	14.70	-	15.54	15.54
				High	6.83	10.13	14.41	15.42	-	-
	UNII 3	5755	151	Low	9.94	10.09	10.28	10.32	-	-
				Mid	10.18	10.35	10.43	-	10.37	10.38
				High	9.79	10.08	10.21	10.26	-	-
5795		159	Low	9.94	10.16	10.32	10.35	-	-	
			Mid	10.19	10.38	10.47	-	10.39	10.39	
			High	9.76	10.01	10.17	10.26	-	-	

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	5.54	9.03	12.67	12.62	11.74	-	-
				Mid	5.86	9.12	12.94	12.84	-	11.90	12.85
				High	5.83	9.09	12.94	13.01	12.00	-	-
	UNII 2A	5290	58	Low	5.96	9.20	10.95	11.00	11.00	-	-
				Mid	6.05	9.32	11.04	11.04	-	11.02	12.06
				High	5.83	9.09	10.85	10.96	11.00	-	-
	UNII 2C	5530	106	Low	5.84	9.06	10.92	10.99	9.83	-	-
				Mid	5.85	9.09	10.93	10.96	-	10.95	12.87
				High	5.60	9.02	10.72	10.82	9.77	-	-
		5610	122	Low	6.89	10.32	13.92	15.03	15.02	-	-
				Mid	6.89	10.36	13.92	15.02	-	13.89	13.89
				High	6.61	10.10	13.72	14.89	14.93	-	-
		5690	138	Low	6.72	10.42	13.95	14.91	14.93	-	-
				Mid	6.91	10.61	14.12	14.99	-	14.03	14.03
				High	6.72	10.44	14.00	14.97	14.94	-	-
	UNII 3	5775	155	Low	9.93	9.98	10.03	10.06	10.00	-	-
				Mid	9.95	9.99	9.96	10.04	-	9.92	9.93
				High	9.71	9.76	9.77	9.87	9.87	-	-

10.4.3 SUM (SISO Ant 1 + SISO Ant 2)

HE20		Frequency [MHz]	Channel No.	RU Index	SUM Power (dBm)				
					26 T	52 T	106 T	242 T	SU
Max Output Power (dBm)	UNII 1	5180	36	Low	9.94	13.69	16.67	-	-
				Mid	9.99	13.79	-	18.53	18.50
				High	10.18	13.93	16.83	-	-
		5200	40	Low	9.97	13.73	16.71	-	-
				Mid	10.01	13.82	-	18.54	18.53
				High	10.14	13.87	16.83	-	-
		5240	48	Low	10.12	13.88	16.87	-	-
				Mid	10.04	13.88	-	18.61	18.60
				High	10.07	13.83	16.80	-	-
	UNII 2A	5260	52	Low	10.36	13.96	17.07	-	-
				Mid	10.23	13.96	-	18.82	18.81
				High	10.27	13.87	17.00	-	-
		5280	56	Low	10.29	13.91	17.01	-	-
				Mid	10.21	13.93	-	18.80	18.78
				High	10.28	13.88	17.01	-	-
		5320	64	Low	10.47	14.58	17.56	-	-
				Mid	10.37	14.59	-	18.80	18.79
				High	10.41	14.53	17.51	-	-
	UNII 2C	5500	100	Low	9.81	13.46	16.54	-	-
				Mid	9.76	13.46	-	18.37	18.35
				High	9.80	13.43	16.54	-	-
		5600	120	Low	10.97	14.52	17.59	-	-
				Mid	10.84	14.51	-	19.28	19.26
				High	10.86	14.43	17.54	-	-
		5720	144	Low	11.17	14.63	17.63	-	-
				Mid	11.05	14.60	-	19.00	18.99
				High	11.02	14.56	17.50	-	-
UNII 3	5745	149	Low	12.95	13.41	13.56	-	-	
			Mid	12.88	13.44	-	13.58	13.57	
			High	12.94	13.42	13.54	-	-	
	5785	157	Low	12.50	13.02	13.16	-	-	
			Mid	12.41	13.04	-	13.16	13.13	
			High	12.45	12.99	13.09	-	-	
	5825	165	Low	12.69	13.05	13.17	-	-	
			Mid	12.60	13.06	-	13.18	13.16	
			High	12.65	13.03	13.14	-	-	

HE40		Frequency [MHz]	Channel No.	RU Index	SUM Power (dBm)					
					26 T	52 T	106 T	242 T	484 T	SU
Max Output Power (dBm)	UNII 1	5190	38	Low	8.96	12.24	16.41	16.52	-	-
				Mid	9.46	12.64	16.74	-	14.78	17.61
				High	9.21	12.49	16.76	16.75	-	-
		5230	46	Low	9.05	12.16	16.66	17.67	-	-
				Mid	9.48	12.57	16.91	-	17.74	17.73
				High	9.08	12.23	16.69	17.69	-	-
	UNII 2A	5270	54	Low	9.32	12.64	16.91	17.85	-	-
				Mid	9.55	12.85	17.03	-	17.89	17.89
				High	9.19	12.56	16.83	17.80	-	-
		5310	62	Low	9.51	13.20	15.63	15.66	-	-
				Mid	9.79	13.47	15.74	-	14.60	18.34
				High	9.37	13.18	15.51	15.60	-	-
	UNII 2C	5510	102	Low	8.80	12.09	14.35	13.41	-	-
				Mid	9.08	12.32	14.50	-	13.40	16.42
				High	8.61	11.95	14.20	13.30	-	-
		5590	118	Low	9.98	13.28	17.49	18.45	-	-
				Mid	10.22	13.48	17.63	-	18.47	18.46
				High	9.76	13.11	17.34	18.35	-	-
		5710	142	Low	10.34	13.59	17.62	18.04	-	-
				Mid	10.56	13.74	17.74	-	18.06	18.06
				High	10.05	13.42	17.37	17.91	-	-
	UNII 3	5755	151	Low	12.96	13.23	13.41	13.46	-	-
				Mid	13.26	13.52	13.59	-	13.54	13.55
				High	12.92	13.25	13.40	13.46	-	-
5795		159	Low	12.56	12.84	13.01	13.03	-	-	
			Mid	12.80	13.03	13.13	-	13.03	13.04	
			High	12.32	12.63	12.79	12.88	-	-	

HE80		Frequency [MHz]	Channel No.	RU Index	SUM Power (dBm)						
					26 T	52 T	106 T	242 T	484 T	996 T	SU
Max Output Power (dBm)	UNII 1	5210	42	Low	8.67	12.40	16.08	16.11	15.31	-	-
				Mid	9.22	12.78	16.49	16.36	-	15.50	16.40
				High	9.17	12.73	16.48	16.55	15.61	-	-
	UNII 2A	5290	58	Low	9.27	13.04	14.53	14.56	14.54	-	-
				Mid	9.26	13.05	14.53	14.55	-	14.53	15.62
				High	9.03	12.83	14.34	14.44	14.48	-	-
	UNII 2C	5530	106	Low	8.79	12.36	14.00	14.05	12.95	-	-
				Mid	8.76	12.32	13.92	14.00	-	13.96	16.01
				High	8.57	12.13	13.70	13.80	12.80	-	-
		5610	122	Low	10.02	13.58	17.15	18.16	18.13	-	-
				Mid	9.94	13.50	17.02	18.11	-	17.03	17.03
				High	9.54	13.13	16.73	17.81	17.88	-	-
		5690	138	Low	10.24	13.89	17.11	17.58	17.61	-	-
				Mid	10.43	14.08	17.27	17.66	-	17.17	17.17
				High	10.07	13.74	16.99	17.52	17.54	-	-
UNII 3	5775	155	Low	12.58	12.63	12.67	12.71	12.66	-	-	
			Mid	12.65	12.71	12.67	12.74	-	12.62	12.62	
			High	12.35	12.40	12.41	12.53	12.56	-	-	

Limit

(UNII 1) : 23.98 dBm

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

(UNII 3) : 30.00 dBm

10.5 POWER SPECTRAL DENSITY

10.5.1 SISO Ant1

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	4.734	5.788	5.861	-	-
				Mid	3.805	5.687	-	4.150	4.028
				High	4.889	6.020	6.079	-	-
		5200	40	Low	4.672	5.598	5.845	-	-
				Mid	3.458	5.696	-	3.951	3.982
				High	4.791	5.785	6.044	-	-
		5240	48	Low	4.531	5.809	6.017	-	-
				Mid	3.497	5.961	-	3.902	4.004
				High	4.701	5.722	5.899	-	-
	UNII 2A	5260	52	Low	4.865	5.953	6.321	-	-
				Mid	3.561	5.896	-	4.185	4.173
				High	4.783	5.801	6.070	-	-
		5280	56	Low	4.789	5.879	6.044	-	-
				Mid	3.570	5.775	-	4.146	4.057
				High	4.731	5.874	6.031	-	-
		5320	64	Low	4.448	6.307	6.343	-	-
				Mid	3.332	6.547	-	3.528	3.307
				High	4.425	6.380	6.350	-	-
	UNII 2C	5500	100	Low	4.042	5.071	5.268	-	-
				Mid	2.882	4.975	-	3.556	3.459
				High	3.934	4.929	5.321	-	-
		5600	120	Low	5.238	6.208	6.361	-	-
				Mid	3.989	6.186	-	4.243	4.294
				High	5.169	6.379	6.234	-	-
		5720	144	Low	6.043	6.783	6.375	-	-
				Mid	4.784	6.785	-	3.827	3.643
				High	5.829	6.779	6.315	-	-
	UNII 3	5745	149	Low	4.981	2.506	-0.561	-	-
				Mid	4.689	2.372	-	-3.851	-3.882
				High	5.083	2.715	-0.411	-	-
5785		157	Low	4.089	1.631	-1.233	-	-	
			Mid	3.631	1.787	-	-4.653	-4.741	
			High	4.016	1.595	-1.052	-	-	
5825		165	Low	3.940	1.460	-1.453	-	-	
			Mid	3.498	1.511	-	-4.906	-5.019	
			High	3.616	1.357	-1.470	-	-	

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	2.491	3.702	5.554	2.791	-	-
				Mid	4.916	5.759	6.345	-	-1.904	0.740
				High	3.109	4.206	5.809	2.832	-	-
		5230	46	Low	2.645	3.765	6.076	3.749	-	-
				Mid	4.696	5.243	6.565	-	0.911	0.802
				High	2.791	3.855	5.640	3.979	-	-
	UNII 2A	5270	54	Low	2.867	4.320	5.883	3.831	-	-
				Mid	4.800	5.807	6.516	-	1.026	1.127
				High	2.639	4.132	5.752	3.951	-	-
		5310	62	Low	2.457	4.601	4.559	1.587	-	-
				Mid	4.476	6.260	5.166	-	-2.517	1.068
				High	2.260	4.495	4.454	1.600	-	-
	UNII 2C	5510	102	Low	2.190	3.136	2.970	-0.705	-	-
				Mid	3.924	4.566	3.725	-	-3.765	-0.804
				High	1.951	3.109	2.998	-1.084	-	-
		5590	118	Low	3.423	4.506	6.355	4.055	-	-
				Mid	5.322	5.751	6.967	-	1.083	1.155
				High	3.323	4.262	5.942	4.133	-	-
		5710	142	Low	4.378	5.002	6.332	3.115	-	-
				Mid	5.825	6.159	6.865	-	0.029	0.274
				High	3.826	4.714	6.113	3.002	-	-
	UNII 3	5755	151	Low	3.822	1.694	-0.652	-3.542	-	-
				Mid	5.948	2.995	0.048	-	-6.550	-6.424
				High	3.993	1.915	-0.809	-3.727	-	-
5795		159	Low	3.233	0.724	-1.649	-4.614	-	-	
			Mid	4.927	2.128	-0.925	-	-7.585	-7.433	
			High	2.508	0.454	-1.785	-4.770	-	-	

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	-3.815	-2.002	0.274	1.238	0.223	-	-
				Mid	4.877	7.198	7.791	3.949	-	-2.947	-2.039
				High	-3.104	-1.518	0.695	1.429	0.246	-	-
	UNII 2A	5290	58	Low	-3.526	-1.425	-1.110	-0.428	-0.887	-	-
				Mid	5.011	7.292	5.705	2.200	-	-4.058	-2.887
				High	-3.759	-1.588	-1.205	-0.633	-1.027	-	-
	UNII 2C	5530	106	Low	-3.967	-2.366	-1.755	-1.325	-2.879	-	-
				Mid	4.082	6.407	4.610	1.139	-	-4.952	-2.808
				High	-4.182	-2.692	-2.441	-1.836	-3.036	-	-
		5610	122	Low	-2.876	-1.299	1.028	2.453	2.200	-	-
				Mid	5.339	7.421	7.606	5.082	-	-1.684	-1.817
				High	-3.646	-1.930	0.262	1.868	1.911	-	-
		5690	138	Low	-2.384	-0.647	0.409	1.167	1.178	-	-
				Mid	5.974	8.096	7.767	4.339	-	-1.648	-1.615
				High	-2.755	-1.097	0.276	1.251	1.380	-	-
UNII 3	5775	155	Low	-3.723	-5.949	-7.098	-6.552	-6.575	-	-	
			Mid	5.397	3.014	0.021	-3.563	-	-9.337	-9.612	
			High	-3.558	-5.949	-6.987	-6.532	-6.446	-	-	

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

Limit(UNII 3) : 30.0 dBm/500 kHz

10.5.2 SISO Ant2

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	4.028	4.628	4.611	-	-
				Mid	2.585	4.295	-	3.175	3.202
				High	4.084	4.782	4.702	-	-
		5200	40	Low	4.241	4.587	4.710	-	-
				Mid	2.568	4.491	-	3.264	3.382
				High	4.036	4.719	4.888	-	-
		5240	48	Low	4.298	4.947	4.897	-	-
				Mid	3.033	4.942	-	3.292	3.397
				High	4.223	5.055	4.919	-	-
	UNII 2A	5260	52	Low	4.577	5.100	5.353	-	-
				Mid	3.123	4.835	-	3.645	3.672
				High	4.567	4.995	5.163	-	-
		5280	56	Low	4.547	5.007	5.105	-	-
				Mid	3.042	4.783	-	3.645	3.621
				High	4.642	5.061	5.274	-	-
		5320	64	Low	5.561	5.889	6.015	-	-
				Mid	3.654	5.669	-	4.287	4.317
				High	5.151	5.814	5.859	-	-
	UNII 2C	5500	100	Low	4.352	5.278	4.841	-	-
				Mid	2.643	4.753	-	3.276	3.383
				High	4.226	4.964	4.827	-	-
		5600	120	Low	5.550	5.960	6.022	-	-
				Mid	3.946	5.902	-	4.428	4.377
				High	5.447	6.075	6.124	-	-
		5720	144	Low	5.603	6.120	6.434	-	-
				Mid	4.580	6.150	-	4.735	4.842
				High	5.646	6.271	6.477	-	-
UNII 3	5745	149	Low	5.059	2.259	-0.385	-	-	
			Mid	4.364	2.049	-	-3.997	-4.029	
			High	4.832	2.474	-0.666	-	-	
	5785	157	Low	4.875	2.406	-0.507	-	-	
			Mid	4.051	2.107	-	-3.839	-4.158	
			High	4.558	2.376	-0.560	-	-	
	5825	165	Low	5.005	2.412	-0.635	-	-	
			Mid	4.259	2.280	-	-3.839	-4.105	
			High	4.984	2.447	-0.793	-	-	

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	2.643	2.809	4.293	0.882	-	-
				Mid	3.374	3.312	4.785	-	-3.806	-0.710
				High	2.951	3.285	4.543	1.144	-	-
		5230	46	Low	3.032	3.386	4.678	2.315	-	-
				Mid	3.609	3.511	4.838	-	-0.576	-0.560
				High	3.275	3.233	4.752	2.356	-	-
	UNII 2A	5270	54	Low	3.700	3.479	5.116	2.424	-	-
				Mid	3.700	3.746	5.173	-	-0.251	-0.377
				High	3.546	3.472	5.037	2.658	-	-
		5310	62	Low	4.182	4.230	3.811	0.425	-	-
				Mid	4.518	4.590	4.136	-	-3.597	0.572
				High	3.870	4.257	3.736	0.364	-	-
	UNII 2C	5510	102	Low	3.211	3.346	2.992	-1.476	-	-
				Mid	3.574	3.657	3.019	-	-4.409	-1.594
				High	3.034	3.439	2.791	-1.566	-	-
		5590	118	Low	4.204	4.668	5.898	3.349	-	-
				Mid	4.490	4.811	5.908	-	0.558	0.473
				High	4.228	4.631	5.865	3.425	-	-
		5710	142	Low	4.346	4.865	6.331	3.577	-	-
				Mid	4.504	5.173	6.275	-	0.604	0.772
				High	4.193	4.972	6.071	3.603	-	-
	UNII 3	5755	151	Low	4.465	2.152	-0.947	-4.281	-	-
				Mid	4.956	2.193	-0.854	-	-7.226	-7.003
				High	4.458	2.078	-1.014	-4.306	-	-
5795		159	Low	4.544	1.882	-1.043	-4.352	-	-	
			Mid	4.863	2.131	-0.764	-	-7.149	-7.191	
			High	4.690	1.826	-0.923	-4.481	-	-	

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	2.487	3.006	3.926	0.602	-3.179	-	-
				Mid	1.903	3.350	4.411	0.706	-	-6.126	-5.215
				High	2.797	3.631	4.339	0.948	-3.029	-	-
	UNII 2A	5290	58	Low	2.917	3.387	2.229	-1.015	-4.116	-	-
				Mid	2.372	3.657	2.304	-1.103	-	-7.030	-5.962
				High	2.900	3.564	2.211	-1.160	-3.963	-	-
	UNII 2C	5530	106	Low	3.124	3.300	2.379	-1.046	-5.185	-	-
				Mid	1.968	3.486	2.276	-1.175	-	-7.086	-5.122
				High	2.750	3.378	2.072	-1.270	-5.177	-	-
		5610	122	Low	3.773	4.564	5.213	2.698	-0.209	-	-
				Mid	2.748	4.704	5.213	2.773	-	-4.260	-4.426
				High	3.583	4.461	4.836	2.523	-0.153	-	-
	5690	138	Low	3.600	4.363	4.933	2.486	-0.431	-	-	
			Mid	2.706	5.029	5.044	2.599	-	-4.199	-4.183	
			High	3.823	4.726	5.234	2.576	-0.362	-	-	
UNII 3	5775	155	Low	4.424	1.376	-1.664	-5.344	-8.103	-	-	
			Mid	3.577	1.195	-1.639	-5.300	-	-11.156	-11.236	
			High	4.163	1.210	-1.761	-5.139	-7.999	-	-	

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

Limit(UNII 3) : 30.0 dBm/500 kHz

10.5.3 SUM (SISO Ant 1 + SISO 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	7.405	8.257	8.291	-	-
				Mid	6.248	8.056	-	6.700	6.644
				High	7.515	8.455	8.455	-	-
		5200	40	Low	7.472	8.132	8.325	-	-
				Mid	6.046	8.145	-	6.632	6.702
				High	7.440	8.295	8.515	-	-
		5240	48	Low	7.426	8.409	8.503	-	-
				Mid	6.281	8.491	-	6.618	6.721
				High	7.478	8.411	8.447	-	-
	UNII 2A	5260	52	Low	7.733	8.557	8.874	-	-
				Mid	6.357	8.408	-	6.934	6.940
				High	7.686	8.427	8.650	-	-
		5280	56	Low	7.680	8.475	8.610	-	-
				Mid	6.324	8.317	-	6.913	6.854
				High	7.697	8.496	8.679	-	-
		5320	64	Low	8.050	9.113	9.192	-	-
				Mid	6.506	9.140	-	6.934	6.851
				High	7.813	9.116	9.122	-	-
	UNII 2C	5500	100	Low	7.210	8.186	8.070	-	-
				Mid	5.774	7.875	-	6.429	6.431
				High	7.092	7.956	8.091	-	-
		5600	120	Low	8.407	9.096	9.205	-	-
				Mid	6.977	9.056	-	7.347	7.346
				High	8.320	9.240	9.190	-	-
		5720	144	Low	8.838	9.474	9.415	-	-
				Mid	7.693	9.489	-	7.315	7.294
				High	8.748	9.543	9.407	-	-
	UNII 3	5745	149	Low	8.030	5.394	2.538	-	-
				Mid	7.539	5.223	-	-0.913	-0.945
				High	7.969	5.606	2.474	-	-
5785		157	Low	7.510	5.046	2.155	-	-	
			Mid	6.856	4.960	-	-1.217	-1.430	
			High	7.305	5.013	2.211	-	-	
5825		165	Low	7.515	4.972	1.986	-	-	
			Mid	6.905	4.922	-	-1.329	-1.528	
			High	7.363	4.946	1.892	-	-	

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	5.578	6.288	7.979	4.950	-	-
				Mid	7.224	7.716	8.645	-	0.259	3.086
				High	6.041	6.780	8.232	5.079	-	-
		5230	46	Low	5.853	6.590	8.443	6.101	-	-
				Mid	7.197	7.473	8.797	-	3.241	3.185
				High	6.050	6.565	8.228	6.253	-	-
	UNII 2A	5270	54	Low	6.314	6.930	8.526	6.194	-	-
				Mid	7.295	7.908	8.906	-	3.445	3.450
				High	6.127	6.824	8.419	6.362	-	-
		5310	62	Low	6.415	7.429	7.211	4.055	-	-
				Mid	7.508	8.515	7.691	-	-0.013	3.838
				High	6.150	7.388	7.120	4.036	-	-
	UNII 2C	5510	102	Low	5.741	6.252	5.991	1.936	-	-
				Mid	6.763	7.145	6.396	-	-1.065	1.829
				High	5.537	6.287	5.906	1.692	-	-
		5590	118	Low	6.842	7.598	9.142	6.726	-	-
				Mid	7.937	8.316	9.480	-	3.839	3.838
				High	6.810	7.460	8.914	6.803	-	-
		5710	142	Low	7.373	7.944	9.341	6.362	-	-
				Mid	8.225	8.704	9.588	-	3.336	3.541
				High	7.024	7.855	9.102	6.323	-	-
	UNII 3	5755	151	Low	7.166	4.939	2.213	-0.886	-	-
				Mid	8.496	5.622	2.630	-	-3.864	-3.693
				High	7.242	5.007	2.100	-0.997	-	-
5795		159	Low	6.948	4.351	1.674	-1.471	-	-	
			Mid	7.906	5.139	2.166	-	-4.351	-4.300	
			High	6.745	4.204	1.677	-1.613	-	-	

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	3.402	4.197	5.483	3.941	1.857	-	-
				Mid	6.650	8.697	9.432	5.633	-	-1.241	-0.333
				High	3.791	4.789	5.898	4.205	1.921	-	-
	UNII 2A	5290	58	Low	3.805	4.626	3.883	2.298	0.802	-	-
				Mid	6.900	8.854	7.339	3.865	-	-2.284	-1.148
				High	3.749	4.721	3.840	2.121	0.759	-	-
	UNII 2C	5530	106	Low	3.899	4.342	3.796	1.827	-0.870	-	-
				Mid	6.163	8.197	6.608	3.144	-	-2.879	-0.803
				High	3.552	4.337	3.387	1.466	-0.965	-	-
		5610	122	Low	4.624	5.565	6.616	5.587	4.171	-	-
				Mid	7.245	9.282	9.582	7.089	-	0.227	0.082
				High	4.336	5.358	6.135	5.218	4.011	-	-
		5690	138	Low	4.577	5.554	6.245	4.886	3.458	-	-
				Mid	7.651	9.838	9.625	6.565	-	0.272	0.298
				High	4.687	5.735	6.437	4.974	3.606	-	-
UNII 3	5775	155	Low	5.043	2.113	-0.572	-2.896	-4.262	-	-	
			Mid	7.597	5.209	2.280	-1.335	-	-7.141	-7.338	
			High	4.842	1.974	-0.621	-2.770	-4.143	-	-	

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 SISO 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	4.48
				4	14.16	4.44
				7	14.24	4.32
				8	14.36	6.24
			52 T	37	16.24	4.72
				38	14.64	4.64
				39	14.56	4.72
				40	14.52	5.92
			106 T	53	16.48	5.04
				54	14.92	6.28
			242 T	61	16.36	6.32
			SU	-	16.20	6.40

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	34.04	3.88
				16	34.20	4.44
				17	34.20	6.12
			52 T	# 37	-	-
				41	34.20	4.04
				43	34.12	4.04
				44	34.12	5.88
			106 T	# 53	-	-
				# 54	-	-
				55	34.36	4.12
				56	35.00	5.88
			242 T	# 61	-	-
				62	34.52	6.04
			484 T	65	36.68	6.36
			SU	-	36.60	6.44

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	5.80
				36	74.20	7.08
			52 T	# 37	-	-
				# 45	-	-
				51	74.20	4.04
				52	74.20	7.56
			106 T	# 53	-	-
				# 57	-	-
				59	73.56	4.04
				60	74.36	6.76
			242 T	# 61	-	-
				# 62	-	-
				63	74.04	4.36
				64	74.20	5.96
			484 T	# 65	-	-
				66	74.36	5.48
			996 T	67	75.32	5.00
			SU	-	75.48	5.16

10.6.1.2 SISO 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	16.36	4.52
				4	14.40	4.48
				7	14.32	4.52
				8	14.40	6.36
			52 T	37	16.60	4.80
				38	14.44	4.80
				39	14.48	4.84
				40	14.56	5.96
			106 T	53	16.52	4.80
				54	14.88	6.24
			242 T	61	16.36	6.16
			SU	-	16.48	6.32

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	3.96
				16	34.20	4.52
				17	34.04	6.12
			52 T	# 37	-	-
				41	34.12	4.12
				43	34.36	4.12
				44	34.28	6.92
			106 T	# 53	-	-
				# 54	-	-
				55	35.08	4.44
				56	34.84	6.28
			242 T	# 61	-	-
				62	34.68	6.68
			484 T	65	37.32	7.16
			SU	-	37.40	7.24

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	73.88	6.60
				36	74.20	8.04
			52 T	# 37	-	-
				# 45	-	-
				51	74.36	4.84
				52	74.20	8.04
			106 T	# 53	-	-
				# 57	-	-
				59	75.16	4.68
				60	75.00	7.88
			242 T	# 61	-	-
				# 62	-	-
				63	75.32	5.80
				64	74.84	9.32
			484 T	# 65	-	-
				66	75.32	9.48
			996 T	67	79.64	8.20
			SU	-	79.16	7.88

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

10.6.2.1 SISO Ant1

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	2.48
				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	-	4.56

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	6 dB BW (MHz)
					UNII 3
HE40	5710	142	26 T	# 0	-
				# 9	-
				16	2.04
				17	4.12
			52 T	# 37	-
				# 41	-
				# 43	-
				44	4.04
			106 T	# 53	-
				# 54	-
				55	-1.16
				56	4.04
			242 T	# 61	-
				62	4.12
			484 T	65	4.04
			SU	-	4.04

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	6 dB BW (MHz)
					UNII 3
HE80	5690	138	26 T	# 0	-
				# 18	-
				35	2.12
				36	4.20
			52 T	# 37	-
				# 45	-
				# 51	-
				52	4.20
			106 T	# 53	-
				# 57	-
				# 59	-
				60	4.04
			242 T	# 61	-
				# 62	-
				63	-14.68
				64	-1.40
			484 T	# 65	-
66	-6.36				
996 T	67	-8.60			
SU	-	-7.32			

10.6.2.2 SISO 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	4.60
			242 T	61	4.56
			SU	-	4.56

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	6 dB BW (MHz)
					UNII 3
HE40	5710	142	26 T	# 0	-
				# 9	-
				16	2.04
				17	4.12
			52 T	# 37	-
				# 41	-
				# 43	-
				44	4.04
			106 T	# 53	-
				# 54	-
				55	2.60
				56	4.04
			242 T	# 61	-
				62	4.12
			484 T	65	4.12
			SU	-	4.12

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	-	4.20

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 SISO 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	8.72	-19.96
				4	8.50	-19.83
				7	-7.35	8.52
				8	-13.11	8.53
			52 T	37	12.24	-16.19
				38	12.20	-15.59
				39	11.66	2.05
				40	-5.96	12.05
			106 T	53	14.78	-12.64
				54	11.12	11.96
			242 T	61	14.33	9.29
			SU	-	14.32	9.28

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	8.64	-24.50
				16	-2.35	6.60
				17	-13.11	6.45
			52 T	# 37	-	-
				41	11.68	-20.51
				43	10.80	-6.06
				44	-1.71	9.71
			106 T	# 53	-	-
				# 54	-	-
				55	15.09	-18.44
				56	11.46	10.23
			242 T	# 61	-	-
				62	13.61	6.52
			484 T	65	14.15	3.59
			SU	-	14.16	3.65

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	-7.48	0.92
				36	-14.12	0.48
			52 T	# 37	-	-
				# 45	-	-
				51	6.00	-11.12
				52	-5.98	4.22
			106 T	# 53	-	-
				# 57	-	-
				59	12.43	-26.49
				60	6.00	4.13
			242 T	# 61	-	-
				# 62	-	-
				63	15.68	-26.27
				64	10.29	0.56
			484 T	# 65	-	-
				66	13.73	-2.38
			996 T	67	13.98	-5.41
			SU	-	13.91	-5.41

10.6.3.2 SISO 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	8.15	-20.81
				4	7.66	-19.88
				7	-7.80	7.98
				8	-13.78	8.19
			52 T	37	11.57	-16.34
				38	11.28	-16.29
				39	10.79	1.23
				40	-6.60	11.46
			106 T	53	14.82	-13.54
				54	11.23	12.32
			242 T	61	15.36	10.57
			SU	-	15.31	10.49

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	7.47	-24.10
				16	-2.41	6.85
				17	-14.04	7.10
			52 T	# 37	-	-
				41	10.76	-21.21
				43	10.50	-6.04
				44	-1.74	10.19
			106 T	# 53	-	-
				# 54	-	-
				55	14.72	-16.76
				56	11.73	11.31
			242 T	# 61	-	-
				62	14.48	8.62
			484 T	65	15.04	5.70
			SU	-	15.09	5.73

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	-1.25	6.42
				36	-14.87	6.84
			52 T	# 37	-	-
				# 45	-	-
				51	10.12	-6.02
				52	-2.13	10.35
			106 T	# 53	-	-
				# 57	-	-
				59	13.72	-19.18
				60	10.77	10.94
			242 T	# 61	-	-
				# 62	-	-
				63	14.70	-19.78
				64	13.65	8.29
			484 T	# 65	-	-
				66	14.19	5.26
			996 T	67	13.41	1.25
			SU	-	13.30	1.22

10.6.4 Power Spectral Density

Test Note: Limit(UNII 3) : 30.0 dBm/500 kHz

10.6.4.1 SISO Ant1

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	5.924	-20.839
				4	4.810	-20.997
				7	-3.106	3.220
				8	-17.041	3.167
			52 T	37	6.886	-19.059
				38	6.819	-18.786
				39	6.709	3.202
				40	-2.418	3.993
			106 T	53	6.445	-13.986
				54	6.145	3.198
			242 T	61	3.559	0.772
			SU	-	3.604	0.685

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	5.802	-29.978
				16	1.489	1.803
				17	-22.942	1.062
			52 T	# 37	-	-
				41	6.228	-25.395
				43	5.485	-8.617
				44	1.426	1.566
			106 T	# 53	-	-
				# 54	-	-
				55	6.480	-21.818
				56	5.673	2.273
			242 T	# 61	-	-
				62	2.714	-1.577
			484 T	65	-0.045	-4.318
			SU	-	-0.028	-4.239

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	-5.184	-4.601
				36	-24.809	-5.359
			52 T	# 37	-	-
				# 45	-	-
				51	0.854	-15.776
				52	-4.830	-4.153
			106 T	# 53	-	-
				# 57	-	-
				59	4.785	-30.676
				60	0.344	-4.366
			242 T	# 61	-	-
				# 62	-	-
				63	3.975	-33.391
				64	1.015	-7.672
			484 T	# 65	-	-
				66	1.062	-10.511
			996 T	67	-2.001	-13.756
			SU	-	-2.024	-13.878

10.6.4.2 SISO Ant2

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	5.535	-22.494
				4	3.893	-22.160
				7	-3.347	2.561
				8	-18.632	2.774
			52 T	37	6.143	-20.163
				38	5.755	-19.334
				39	5.888	2.770
				40	-2.660	3.102
			106 T	53	6.359	-17.610
				54	6.062	3.498
			242 T	61	4.542	1.971
			SU	-	4.632	1.921

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	4.813	-27.342
				16	1.578	1.698
				17	-22.541	1.639
			52 T	# 37	-	-
				41	5.309	-25.350
				43	5.116	-8.896
				44	1.659	1.961
			106 T	# 53	-	-
				# 54	-	-
				55	6.062	-19.364
				56	5.940	2.973
			242 T	# 61	-	-
				62	3.472	0.133
			484 T	65	0.562	-2.610
			SU	-	0.582	-2.626

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	-0.090	0.513
				36	-24.930	0.887
			52 T	# 37	-	-
				# 45	-	-
				51	4.679	-11.433
				52	0.584	1.541
			106 T	# 53	-	-
				# 57	-	-
				59	5.060	-25.026
				60	4.935	2.125
			242 T	# 61	-	-
				# 62	-	-
				63	2.731	-26.252
				64	2.513	-0.439
			484 T	# 65	-	-
				66	-0.339	-3.448
			996 T	67	-4.228	-7.544
			SU	-	-4.551	-7.519

10.7 RADIATED SPURIOUS EMISSIONS (9 kHz – 1 GHz)

Frequency Range : 9 kHz – 30 MHz

Frequency	Measured Value	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin
[MHz]	[dB μ V]	[dB/m]	[H/V]	[dB μ V/m]	[dB μ V/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 = $40 \log(\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dB μ V) + Distance extrapolation factor

Frequency Range : Below 1 GHz

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

Note:

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

10.8 RADIATED SPURIOUS EMISSIONS (Above 1 GHz)

10.8.1 802.11ax(HE20)

1) 26 Tone RU 0_MIMO

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10360	49.54	8.12	V	57.66	68.20	10.54	PK
15540	40.41	12.95	V	53.36	73.98	20.62	PK
15540	26.98	12.95	V	39.93	53.98	14.05	AV
10360	48.62	8.12	H	56.74	68.20	11.46	PK
15540	40.04	12.95	H	52.99	73.98	20.99	PK
15540	26.83	12.95	H	39.78	53.98	14.20	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10400	50.50	8.14	V	58.64	68.20	9.56	PK
15600	39.64	13.29	V	52.93	73.98	21.05	PK
15600	26.54	13.29	V	39.83	53.98	14.15	AV
10400	49.57	8.14	H	57.71	68.20	10.49	PK
15600	39.92	13.29	H	53.21	73.98	20.77	PK
15600	26.60	13.29	H	39.89	53.98	14.09	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10480	50.60	8.62	V	59.22	68.20	8.98	PK
15720	39.32	13.21	V	52.53	73.98	21.45	PK
15720	26.24	13.21	V	39.45	53.98	14.53	AV
10480	50.33	8.62	H	58.95	68.20	9.25	PK
15720	39.77	13.21	H	52.98	73.98	21.00	PK
15720	26.11	13.21	H	39.32	53.98	14.66	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10520	50.75	8.85	V	59.60	68.20	8.60	PK
15780	40.29	12.87	V	53.16	73.98	20.82	PK
15780	27.11	12.87	V	39.98	53.98	14.00	AV
10520	50.84	8.85	H	59.69	68.20	8.51	PK
15780	40.27	12.87	H	53.14	73.98	20.84	PK
15780	27.25	12.87	H	40.12	53.98	13.86	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10600	50.26	9.35	V	59.61	73.98	14.37	PK
10600	34.16	9.35	V	43.51	53.98	10.47	AV
15900	40.52	12.56	V	53.08	73.98	20.90	PK
15900	27.62	12.56	V	40.18	53.98	13.80	AV
10600	50.23	9.35	H	59.58	73.98	14.40	PK
10600	33.75	9.35	H	43.10	53.98	10.88	AV
15900	41.00	12.56	H	53.56	73.98	20.42	PK
15900	27.62	12.56	H	40.18	53.98	13.80	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10640	49.93	9.15	V	59.08	73.98	14.90	PK
10640	33.56	9.15	V	42.71	53.98	11.27	AV
15960	40.67	12.21	V	52.88	73.98	21.10	PK
15960	27.25	12.21	V	39.46	53.98	14.52	AV
10640	49.65	9.15	H	58.80	73.98	15.18	PK
10640	33.03	9.15	H	42.18	53.98	11.80	AV
15960	40.92	12.21	H	53.13	73.98	20.85	PK
15960	27.30	12.21	H	39.51	53.98	14.47	AV

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

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11000	43.37	10.19	V	53.56	73.98	20.42	PK
11000	29.86	10.19	V	40.05	53.98	13.93	AV
16500	41.38	12.17	V	53.55	68.20	14.65	PK
11000	43.38	10.19	H	53.57	73.98	20.41	PK
11000	29.61	10.19	H	39.80	53.98	14.18	AV
16500	41.59	12.17	H	53.76	68.20	14.44	PK

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

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11200	45.92	10.29	V	56.21	73.98	17.77	PK
11200	31.36	10.29	V	41.65	53.98	12.33	AV
16800	42.30	13.25	V	55.55	68.20	12.65	PK
11200	45.64	10.29	H	55.93	73.98	18.05	PK
11200	30.81	10.29	H	41.10	53.98	12.88	AV
16800	41.23	13.25	H	54.48	68.20	13.72	PK

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11440	45.04	10.43	V	55.47	73.98	18.51	PK
11440	30.05	10.43	V	40.48	53.98	13.50	AV
17160	40.84	13.78	V	54.62	68.20	13.58	PK
11440	44.62	10.43	H	55.05	73.98	18.93	PK
11440	29.91	10.43	H	40.34	53.98	13.64	AV
17160	40.83	13.78	H	54.61	68.20	13.59	PK

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11490	44.46	10.81	V	55.27	73.98	18.71	PK
11490	29.54	10.81	V	40.35	53.98	13.63	AV
17235	40.65	14.28	V	54.93	68.20	13.27	PK
11490	43.77	10.81	H	54.58	73.98	19.40	PK
11490	29.13	10.81	H	39.94	53.98	14.04	AV
17235	41.05	14.28	H	55.33	68.20	12.87	PK

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

frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11570	42.86	10.13	V	52.99	73.98	20.99	PK
11570	29.63	10.13	V	39.76	53.98	14.22	AV
17355	40.40	15.62	V	56.02	68.20	12.18	PK
11570	42.22	10.13	H	52.35	73.98	21.63	PK
11570	29.17	10.13	H	39.30	53.98	14.68	AV
17355	40.09	15.62	H	55.71	68.20	12.49	PK

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

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11650	42.73	9.58	V	52.31	73.98	21.67	PK
11650	29.31	9.58	V	38.89	53.98	15.09	AV
17475	40.17	17.18	V	57.35	68.20	10.85	PK
11650	42.04	9.58	H	51.62	73.98	22.36	PK
11650	29.07	9.58	H	38.65	53.98	15.33	AV
17475	39.88	17.18	H	57.06	68.20	11.14	PK

2) 52 Tone RU 38_MIMO

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10360	49.30	8.12	V	57.42	68.20	10.78	PK
15540	40.20	12.95	V	53.15	73.98	20.83	PK
15540	26.87	12.95	V	39.82	53.98	14.16	AV
10360	47.90	8.12	H	56.02	68.20	12.18	PK
15540	40.39	12.95	H	53.34	73.98	20.64	PK
15540	26.82	12.95	H	39.77	53.98	14.21	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10400	49.25	8.14	V	57.39	68.20	10.81	PK
15600	39.79	13.29	V	53.08	73.98	20.90	PK
15600	26.55	13.29	V	39.84	53.98	14.14	AV
10400	48.68	8.14	H	56.82	68.20	11.38	PK
15600	39.68	13.29	H	52.97	73.98	21.01	PK
15600	26.54	13.29	H	39.83	53.98	14.15	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10480	49.98	8.62	V	58.60	68.20	9.60	PK
15720	40.02	13.21	V	53.23	73.98	20.75	PK
15720	26.20	13.21	V	39.41	53.98	14.57	AV
10480	49.68	8.62	H	58.30	68.20	9.90	PK
15720	39.36	13.21	H	52.57	73.98	21.41	PK
15720	26.14	13.21	H	39.35	53.98	14.63	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10520	50.88	8.85	V	59.73	68.20	8.47	PK
15780	40.50	12.87	V	53.37	73.98	20.61	PK
15780	27.04	12.87	V	39.91	53.98	14.07	AV
10520	51.11	8.85	H	59.96	68.20	8.24	PK
15780	40.61	12.87	H	53.48	73.98	20.50	PK
15780	27.23	12.87	H	40.10	53.98	13.88	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10600	49.23	9.35	V	58.58	73.98	15.40	PK
10600	34.07	9.35	V	43.42	53.98	10.56	AV
15900	40.72	12.56	V	53.28	73.98	20.70	PK
15900	27.66	12.56	V	40.22	53.98	13.76	AV
10600	48.48	9.35	H	57.83	73.98	16.15	PK
10600	33.77	9.35	H	43.12	53.98	10.86	AV
15900	40.93	12.56	H	53.49	73.98	20.49	PK
15900	27.57	12.56	H	40.13	53.98	13.85	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10640	48.27	9.15	V	57.42	73.98	16.56	PK
10640	33.41	9.15	V	42.56	53.98	11.42	AV
15960	40.62	12.21	V	52.83	73.98	21.15	PK
15960	27.23	12.21	V	39.44	53.98	14.54	AV
10640	47.77	9.15	H	56.92	73.98	17.06	PK
10640	32.75	9.15	H	41.90	53.98	12.08	AV
15960	40.64	12.21	H	52.85	73.98	21.13	PK
15960	27.29	12.21	H	39.50	53.98	14.48	AV

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

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11000	44.51	10.19	V	54.70	73.98	19.28	PK
11000	29.75	10.19	V	39.94	53.98	14.04	AV
16500	41.44	12.17	V	53.61	68.20	14.59	PK
11000	43.02	10.19	H	53.21	73.98	20.77	PK
11000	30.12	10.19	H	40.31	53.98	13.67	AV
16500	41.03	12.17	H	53.20	68.20	15.00	PK

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

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11200	45.14	10.29	V	55.43	73.98	18.55	PK
11200	31.08	10.29	V	41.37	53.98	12.61	AV
16800	41.39	13.25	V	54.64	68.20	13.56	PK
11200	44.10	10.29	H	54.39	73.98	19.59	PK
11200	30.83	10.29	H	41.12	53.98	12.86	AV
16800	41.29	13.25	H	54.54	68.20	13.66	PK

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11440	44.16	10.43	V	54.59	73.98	19.39	PK
11440	30.45	10.43	V	40.88	53.98	13.10	AV
17160	40.66	13.78	V	54.44	68.20	13.76	PK
11440	43.15	10.43	H	53.58	73.98	20.40	PK
11440	29.86	10.43	H	40.29	53.98	13.69	AV
17160	41.35	13.78	H	55.13	68.20	13.07	PK

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11490	42.30	10.81	V	53.11	73.98	20.87	PK
11490	28.69	10.81	V	39.50	53.98	14.48	AV
17235	40.94	14.28	V	55.22	68.20	12.98	PK
11490	42.39	10.81	H	53.20	73.98	20.78	PK
11490	29.36	10.81	H	40.17	53.98	13.81	AV
17235	41.08	14.28	H	55.36	68.20	12.84	PK

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

frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11570	43.01	10.13	V	53.14	73.98	20.84	PK
11570	29.61	10.13	V	39.74	53.98	14.24	AV
17355	40.37	15.62	V	55.99	68.20	12.21	PK
11570	42.83	10.13	H	52.96	73.98	21.02	PK
11570	29.55	10.13	H	39.68	53.98	14.30	AV
17355	40.59	15.62	H	56.21	68.20	11.99	PK

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11650	42.46	9.58	V	52.04	73.98	21.94	PK
11650	29.07	9.58	V	38.65	53.98	15.33	AV
17475	40.69	17.18	V	57.87	68.20	10.33	PK
11650	41.94	9.58	H	51.52	73.98	22.46	PK
11650	29.25	9.58	H	38.83	53.98	15.15	AV
17475	40.48	17.18	H	57.66	68.20	10.54	PK

3) 106 Tone RU 53_MIMO

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10360	48.96	8.12	V	57.08	68.20	11.12	PK
15540	40.11	12.95	V	53.06	73.98	20.92	PK
15540	26.86	12.95	V	39.81	53.98	14.17	AV
10360	47.87	8.12	H	55.99	68.20	12.21	PK
15540	40.88	12.95	H	53.83	73.98	20.15	PK
15540	26.86	12.95	H	39.81	53.98	14.17	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10400	49.74	8.14	V	57.88	68.20	10.32	PK
15600	40.09	13.29	V	53.38	73.98	20.60	PK
15600	26.47	13.29	V	39.76	53.98	14.22	AV
10400	49.17	8.14	H	57.31	68.20	10.89	PK
15600	39.83	13.29	H	53.12	73.98	20.86	PK
15600	26.49	13.29	H	39.78	53.98	14.20	AV

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

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10480	50.68	8.62	V	59.30	68.20	8.90	PK
15720	39.55	13.21	V	52.76	73.98	21.22	PK
15720	26.13	13.21	V	39.34	53.98	14.64	AV
10480	49.99	8.62	H	58.61	68.20	9.59	PK
15720	39.66	13.21	H	52.87	73.98	21.11	PK
15720	26.13	13.21	H	39.34	53.98	14.64	AV

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

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10520	50.53	8.85	V	59.38	68.20	8.82	PK
15780	40.49	12.87	V	53.36	73.98	20.62	PK
15780	27.08	12.87	V	39.95	53.98	14.03	AV
10520	50.08	8.85	H	58.93	68.20	9.27	PK
15780	40.39	12.87	H	53.26	73.98	20.72	PK
15780	27.13	12.87	H	40.00	53.98	13.98	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10600	49.13	9.35	V	58.48	73.98	15.50	PK
10600	36.29	9.35	V	45.64	53.98	8.34	AV
15900	40.90	12.56	V	53.46	73.98	20.52	PK
15900	27.58	12.56	V	40.14	53.98	13.84	AV
10600	48.69	9.35	H	58.04	73.98	15.94	PK
10600	35.72	9.35	H	45.07	53.98	8.91	AV
15900	42.03	12.56	H	54.59	73.98	19.39	PK
15900	27.64	12.56	H	40.20	53.98	13.78	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10640	48.52	9.15	V	57.67	73.98	16.31	PK
10640	35.11	9.15	V	44.26	53.98	9.72	AV
15960	40.39	12.21	V	52.60	73.98	21.38	PK
15960	27.22	12.21	V	39.43	53.98	14.55	AV
10640	48.54	9.15	H	57.69	73.98	16.29	PK
10640	35.07	9.15	H	44.22	53.98	9.76	AV
15960	40.14	12.21	H	52.35	73.98	21.63	PK
15960	27.21	12.21	H	39.42	53.98	14.56	AV

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

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11000	43.84	10.19	V	54.03	73.98	19.95	PK
11000	30.26	10.19	V	40.45	53.98	13.53	AV
16500	41.59	12.17	V	53.76	68.20	14.44	PK
11000	44.30	10.19	H	54.49	73.98	19.49	PK
11000	30.61	10.19	H	40.80	53.98	13.18	AV
16500	41.27	12.17	H	53.44	68.20	14.76	PK

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

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11200	44.66	10.29	V	54.95	73.98	19.03	PK
11200	31.29	10.29	V	41.58	53.98	12.40	AV
16800	41.68	13.25	V	54.93	68.20	13.27	PK
11200	44.07	10.29	H	54.36	73.98	19.62	PK
11200	30.74	10.29	H	41.03	53.98	12.95	AV
16800	41.37	13.25	H	54.62	68.20	13.58	PK

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11440	46.25	10.43	V	56.68	73.98	17.30	PK
11440	32.30	10.43	V	42.73	53.98	11.25	AV
17160	41.60	13.78	V	55.38	68.20	12.82	PK
11440	43.50	10.43	H	53.93	73.98	20.05	PK
11440	30.87	10.43	H	41.30	53.98	12.68	AV
17160	40.83	13.78	H	54.61	68.20	13.59	PK

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11490	41.90	10.81	V	52.71	73.98	21.27	PK
11490	29.09	10.81	V	39.90	53.98	14.08	AV
17235	40.58	14.28	V	54.86	68.20	13.34	PK
11490	43.01	10.81	H	53.82	73.98	20.16	PK
11490	29.20	10.81	H	40.01	53.98	13.97	AV
17235	41.18	14.28	H	55.46	68.20	12.74	PK

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

frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11570	44.62	10.13	V	54.75	73.98	19.23	PK
11570	30.55	10.13	V	40.68	53.98	13.30	AV
17355	40.19	15.62	V	55.81	68.20	12.39	PK
11570	42.74	10.13	H	52.87	73.98	21.11	PK
11570	29.87	10.13	H	40.00	53.98	13.98	AV
17355	40.55	15.62	H	56.17	68.20	12.03	PK

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

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11650	43.29	9.58	V	52.87	73.98	21.11	PK
11650	30.14	9.58	V	39.72	53.98	14.26	AV
17475	40.20	17.18	V	57.38	68.20	10.82	PK
11650	42.78	9.58	H	52.36	73.98	21.62	PK
11650	29.88	9.58	H	39.46	53.98	14.52	AV
17475	40.35	17.18	H	57.53	68.20	10.67	PK

4) 242 Tone RU 61_MIMO

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10360	49.55	8.12	V	57.67	68.20	10.53	PK
15540	39.75	12.95	V	52.70	73.98	21.28	PK
15540	26.80	12.95	V	39.75	53.98	14.23	AV
10360	48.63	8.12	H	56.75	68.20	11.45	PK
15540	40.08	12.95	H	53.03	73.98	20.95	PK
15540	26.85	12.95	H	39.80	53.98	14.18	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10400	48.94	8.14	V	57.08	68.20	11.12	PK
15600	39.76	13.29	V	53.05	73.98	20.93	PK
15600	26.58	13.29	V	39.87	53.98	14.11	AV
10400	48.82	8.14	H	56.96	68.20	11.24	PK
15600	40.21	13.29	H	53.50	73.98	20.48	PK
15600	26.76	13.29	H	40.05	53.98	13.93	AV

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

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10480	48.78	8.62	V	57.40	68.20	10.80	PK
15720	39.63	13.21	V	52.84	73.98	21.14	PK
15720	26.13	13.21	V	39.34	53.98	14.64	AV
10480	49.61	8.62	H	58.23	68.20	9.97	PK
15720	39.94	13.21	H	53.15	73.98	20.83	PK
15720	26.14	13.21	H	39.35	53.98	14.63	AV

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

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10520	49.04	8.85	V	57.89	68.20	10.31	PK
15780	40.51	12.87	V	53.38	73.98	20.60	PK
15780	27.04	12.87	V	39.91	53.98	14.07	AV
10520	49.27	8.85	H	58.12	68.20	10.08	PK
15780	40.21	12.87	H	53.08	73.98	20.90	PK
15780	27.14	12.87	H	40.01	53.98	13.97	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10600	47.90	9.35	V	57.25	73.98	16.73	PK
10600	34.24	9.35	V	43.59	53.98	10.39	AV
15900	40.86	12.56	V	53.42	73.98	20.56	PK
15900	27.66	12.56	V	40.22	53.98	13.76	AV
10600	48.14	9.35	H	57.49	73.98	16.49	PK
10600	34.07	9.35	H	43.42	53.98	10.56	AV
15900	41.07	12.56	H	53.63	73.98	20.35	PK
15900	27.67	12.56	H	40.23	53.98	13.75	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10640	47.37	9.15	V	56.52	73.98	17.46	PK
10640	34.26	9.15	V	43.41	53.98	10.57	AV
15960	40.43	12.21	V	52.64	73.98	21.34	PK
15960	27.29	12.21	V	39.50	53.98	14.48	AV
10640	47.33	9.15	H	56.48	73.98	17.50	PK
10640	33.51	9.15	H	42.66	53.98	11.32	AV
15960	40.58	12.21	H	52.79	73.98	21.19	PK
15960	27.23	12.21	H	39.44	53.98	14.54	AV

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

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11000	44.81	10.19	V	55.00	73.98	18.98	PK
11000	30.31	10.19	V	40.50	53.98	13.48	AV
16500	41.05	12.17	V	53.22	68.20	14.98	PK
11000	43.38	10.19	H	53.57	73.98	20.41	PK
11000	30.25	10.19	H	40.44	53.98	13.54	AV
16500	41.51	12.17	H	53.68	68.20	14.52	PK

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

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11200	44.19	10.29	V	54.48	73.98	19.50	PK
11200	30.88	10.29	V	41.17	53.98	12.81	AV
16800	42.14	13.25	V	55.39	68.20	12.81	PK
11200	43.86	10.29	H	54.15	73.98	19.83	PK
11200	30.68	10.29	H	40.97	53.98	13.01	AV
16800	41.90	13.25	H	55.15	68.20	13.05	PK

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

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11440	43.81	10.43	V	54.24	73.98	19.74	PK
11440	30.60	10.43	V	41.03	53.98	12.95	AV
17160	40.85	13.78	V	54.63	68.20	13.57	PK
11440	42.49	10.43	H	52.92	73.98	21.06	PK
11440	30.00	10.43	H	40.43	53.98	13.55	AV
17160	40.69	13.78	H	54.47	68.20	13.73	PK

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

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11490	43.39	10.81	V	54.20	73.98	19.78	PK
11490	30.15	10.81	V	40.96	53.98	13.02	AV
17235	40.90	14.28	V	55.18	68.20	13.02	PK
11490	42.69	10.81	H	53.50	73.98	20.48	PK
11490	29.59	10.81	H	40.40	53.98	13.58	AV
17235	41.08	14.28	H	55.36	68.20	12.84	PK

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

frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11570	42.48	10.13	V	52.61	73.98	21.37	PK
11570	29.55	10.13	V	39.68	53.98	14.30	AV
17355	40.10	15.62	V	55.72	68.20	12.48	PK
11570	42.63	10.13	H	52.76	73.98	21.22	PK
11570	29.52	10.13	H	39.65	53.98	14.33	AV
17355	40.31	15.62	H	55.93	68.20	12.27	PK

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11650	42.17	9.58	V	51.75	73.98	22.23	PK
11650	29.34	9.58	V	38.92	53.98	15.06	AV
17475	40.65	17.18	V	57.83	68.20	10.37	PK
11650	43.70	9.58	H	53.28	73.98	20.70	PK
11650	29.50	9.58	H	39.08	53.98	14.90	AV
17475	40.32	17.18	H	57.50	68.20	10.70	PK

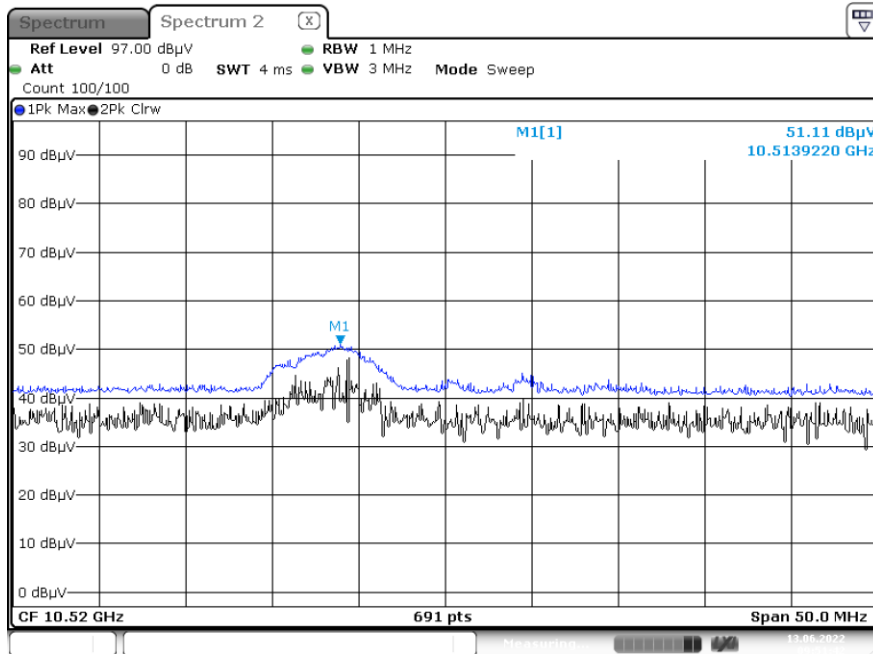
Note:

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.

[MIMO]

▣ Test Plots_52 Tone RU 38_MIMO

Peak result (802.11ax HE20, Ch.52 Spurious Emission, Y-H)



Note:

Only the worst case plots for Radiated Spurious Emissions.

10.9 RADIATED RESTRICTED BAND EDGE

10.9.1MIMO

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 Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5150	43.72	8.43	H	52.15	73.98	21.83	PK
5150	29.30	8.43	H	37.73	53.98	16.25	AV
5150	43.55	8.43	V	51.98	73.98	22.00	PK
5150	29.02	8.43	V	37.45	53.98	16.53	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 Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5350	43.84	8.23	H	52.07	73.98	21.91	PK
5350	31.24	8.23	H	39.47	53.98	14.51	AV
5350	43.78	8.23	V	52.01	73.98	21.97	PK
5350	31.02	8.23	V	39.25	53.98	14.73	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 Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	44.59	8.98	H	53.57	73.98	20.41	PK
5460	29.53	8.98	H	38.51	53.98	15.47	AV
5470	44.21	8.75	H	52.96	68.20	15.24	PK
5460	44.32	8.98	V	53.30	73.98	20.68	PK
5460	29.22	8.98	V	38.20	53.98	15.78	AV
5470	44.02	8.75	V	52.77	68.20	15.43	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	43.87	8.43	H	52.30	73.98	21.68	PK
5150	29.29	8.43	H	37.72	53.98	16.26	AV
5150	43.65	8.43	V	52.08	73.98	21.90	PK
5150	29.02	8.43	V	37.45	53.98	16.53	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	45.70	8.23	H	53.93	73.98	20.05	PK
5350	31.45	8.23	H	39.68	53.98	14.30	AV
5350	45.25	8.23	V	53.48	73.98	20.50	PK
5350	31.22	8.23	V	39.45	53.98	14.53	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	44.26	8.98	H	53.24	73.98	20.74	PK
5460	29.66	8.98	H	38.64	53.98	15.34	AV
5470	45.08	8.75	H	53.83	68.20	14.37	PK
5460	44.02	8.98	V	53.00	73.98	20.98	PK
5460	29.48	8.98	V	38.46	53.98	15.52	AV
5470	44.89	8.75	V	53.64	68.20	14.56	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 Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5150	48.57	8.43	H	57.00	73.98	16.98	PK
5150	29.32	8.43	H	37.75	53.98	16.23	AV
5150	48.32	8.43	V	56.75	73.98	17.23	PK
5150	29.02	8.43	V	37.45	53.98	16.53	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 Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5350	49.24	8.23	H	57.47	73.98	16.51	PK
5350	31.63	8.23	H	39.86	53.98	14.12	AV
5350	49.02	8.23	V	57.25	73.98	16.73	PK
5350	31.41	8.23	V	39.64	53.98	14.34	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	45.37	8.98	H	54.35	73.98	19.63	PK
5460	29.48	8.98	H	38.46	53.98	15.52	AV
5470	47.81	8.75	H	56.56	68.20	11.64	PK
5460	45.12	8.98	V	54.10	73.98	19.88	PK
5460	29.32	8.98	V	38.30	53.98	15.68	AV
5470	47.55	8.75	V	56.30	68.20	11.90	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	54.46	8.43	H	62.89	73.98	11.09	PK
5150	35.98	8.43	H	44.41	53.98	9.57	AV
5150	54.32	8.43	V	62.75	73.98	11.23	PK
5150	35.55	8.43	V	43.98	53.98	10.00	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	57.12	8.23	H	65.35	73.98	8.63	PK
5350	36.07	8.23	H	44.30	53.98	9.68	AV
5350	56.79	8.23	V	65.02	73.98	8.96	PK
5350	35.78	8.23	V	44.01	53.98	9.97	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 Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	46.44	8.98	H	55.42	73.98	18.56	PK
5460	29.42	8.98	H	38.40	53.98	15.58	AV
5470	54.24	8.75	H	62.99	68.20	5.21	PK
5460	46.22	8.98	V	55.20	73.98	18.78	PK
5460	29.12	8.98	V	38.10	53.98	15.88	AV
5470	54.02	8.75	V	62.77	68.20	5.43	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	48.47	8.43	H	56.90	73.98	17.08	PK
5150	33.23	8.43	H	41.66	53.98	12.32	AV
5150	48.21	8.43	V	56.64	73.98	17.34	PK
5150	33.02	8.43	V	41.45	53.98	12.53	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	52.22	8.23	H	60.45	73.98	13.53	PK
5350	34.72	8.23	H	42.95	53.98	11.03	AV
5350	51.98	8.23	V	60.21	73.98	13.77	PK
5350	34.29	8.23	V	42.52	53.98	11.46	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 Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	44.23	8.98	H	53.21	73.98	20.77	PK
5460	29.62	8.98	H	38.60	53.98	15.38	AV
5470	50.24	8.75	H	58.99	68.20	9.21	PK
5460	44.02	8.98	V	53.00	73.98	20.98	PK
5460	29.48	8.98	V	38.46	53.98	15.52	AV
5470	50.00	8.75	V	58.75	68.20	9.45	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 Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5150	43.77	8.43	H	52.20	73.98	21.78	PK
5150	29.27	8.43	H	37.70	53.98	16.28	AV
5150	43.48	8.43	V	51.91	73.98	22.07	PK
5150	29.02	8.43	V	37.45	53.98	16.53	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 Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5350	44.11	8.23	H	52.34	73.98	21.64	PK
5350	29.37	8.23	H	37.60	53.98	16.38	AV
5350	43.89	8.23	V	52.12	73.98	21.86	PK
5350	29.12	8.23	V	37.35	53.98	16.63	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	44.01	8.98	H	52.99	73.98	20.99	PK
5460	31.04	8.98	H	40.02	53.98	13.96	AV
5470	43.92	8.75	H	52.67	68.20	15.53	PK
5460	43.89	8.98	V	52.87	73.98	21.11	PK
5460	30.89	8.98	V	39.87	53.98	14.11	AV
5470	43.77	8.75	V	52.52	68.20	15.68	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 Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5150	43.75	8.43	H	52.18	73.98	21.80	PK
5150	29.31	8.43	H	37.74	53.98	16.24	AV
5150	43.48	8.43	V	51.91	73.98	22.07	PK
5150	29.12	8.43	V	37.55	53.98	16.43	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 Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5350	52.58	8.23	H	60.81	73.98	13.17	PK
5350	30.16	8.23	H	38.39	53.98	15.59	AV
5350	52.32	8.23	V	60.55	73.98	13.43	PK
5350	29.89	8.23	V	38.12	53.98	15.86	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 Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	41.76	8.98	H	50.74	73.98	23.24	PK
5460	29.28	8.98	H	38.26	53.98	15.72	AV
5470	48.23	8.75	H	56.98	68.20	11.22	PK
5460	41.55	8.98	V	50.53	73.98	23.45	PK
5460	29.12	8.98	V	38.10	53.98	15.88	AV
5470	48.02	8.75	V	56.77	68.20	11.43	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	61.81	8.43	H	70.24	73.98	3.74	PK
5150	31.19	8.43	H	39.62	53.98	14.36	AV
5150	61.55	8.43	V	69.98	73.98	4.00	PK
5150	30.89	8.43	V	39.32	53.98	14.66	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	60.91	8.23	H	69.14	73.98	4.84	PK
5350	31.25	8.23	H	39.48	53.98	14.50	AV
5350	60.59	8.23	V	68.82	73.98	5.16	PK
5350	31.02	8.23	V	39.25	53.98	14.73	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	45.66	11.98	H	57.64	73.98	16.34	PK
5460	27.49	11.98	H	39.47	53.98	14.51	AV
5470	50.43	11.75	H	62.18	68.20	6.02	PK
5460	45.48	11.98	V	57.46	73.98	16.52	PK
5460	27.12	11.98	V	39.10	53.98	14.88	AV
5470	50.12	11.75	V	61.87	68.20	6.33	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	62.31	8.43	H	70.74	73.98	3.24	PK
5150	32.16	8.43	H	40.59	53.98	13.39	AV
5150	62.02	8.43	V	70.45	73.98	3.53	PK
5150	31.89	8.43	V	40.32	53.98	13.66	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	60.43	8.23	H	68.66	73.98	5.32	PK
5350	31.47	8.23	H	39.70	53.98	14.28	AV
5350	60.28	8.23	V	68.51	73.98	5.47	PK
5350	31.12	8.23	V	39.35	53.98	14.63	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 Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	45.46	11.98	H	57.44	73.98	16.54	PK
5460	27.15	11.98	H	39.13	53.98	14.85	AV
5470	50.69	11.75	H	62.44	68.20	5.76	PK
5460	45.23	11.98	V	57.21	73.98	16.77	PK
5460	26.89	11.98	V	38.87	53.98	15.11	AV
5470	50.48	11.75	V	62.23	68.20	5.97	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	60.43	8.43	H	68.86	73.98	5.12	PK
5150	34.40	8.43	H	42.83	53.98	11.15	AV
5150	60.22	8.43	V	68.65	73.98	5.33	PK
5150	34.11	8.43	V	42.54	53.98	11.44	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	60.33	8.23	H	68.56	73.98	5.42	PK
5350	37.59	8.23	H	45.82	53.98	8.16	AV
5350	60.12	8.23	V	68.35	73.98	5.63	PK
5350	37.48	8.23	V	45.71	53.98	8.27	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	48.54	11.98	H	60.52	73.98	13.46	PK
5460	27.22	11.98	H	39.20	53.98	14.78	AV
5470	53.39	11.75	H	65.14	68.20	3.06	PK
5460	48.22	11.98	V	60.20	73.98	13.78	PK
5460	27.02	11.98	V	39.00	53.98	14.98	AV
5470	53.02	11.75	V	64.77	68.20	3.43	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 Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5150	53.72	8.43	H	62.15	73.98	11.83	PK
5150	36.78	8.43	H	45.21	53.98	8.77	AV
5150	53.48	8.43	V	61.91	73.98	12.07	PK
5150	36.48	8.43	V	44.91	53.98	9.07	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 Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5350	58.17	8.23	H	66.40	73.98	7.58	PK
5350	41.46	8.23	H	49.69	53.98	4.29	AV
5350	57.89	8.23	V	66.12	73.98	7.86	PK
5350	41.23	8.23	V	49.46	53.98	4.52	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 Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	44.45	8.98	H	53.43	73.98	20.55	PK
5460	31.23	8.98	H	40.21	53.98	13.77	AV
5470	54.88	8.75	H	63.63	68.20	4.57	PK
5460	44.22	8.98	V	53.20	73.98	20.78	PK
5460	31.02	8.98	V	40.00	53.98	13.98	AV
5470	54.55	8.75	V	63.30	68.20	4.90	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	43.29	8.43	H	51.72	73.98	22.26	PK
5150	29.33	8.43	H	37.76	53.98	16.22	AV
5150	43.12	8.43	V	51.55	73.98	22.43	PK
5150	29.22	8.43	V	37.65	53.98	16.33	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	45.63	8.23	H	53.86	73.98	20.12	PK
5350	29.55	8.23	H	37.78	53.98	16.20	AV
5350	45.51	8.23	V	53.74	73.98	20.24	PK
5350	29.48	8.23	V	37.71	53.98	16.27	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 Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	44.71	8.98	H	53.69	73.98	20.29	PK
5460	27.60	8.98	H	36.58	53.98	17.40	AV
5470	47.33	8.75	H	56.08	68.20	12.12	PK
5460	44.55	8.98	V	53.53	73.98	20.45	PK
5460	27.48	8.98	V	36.46	53.98	17.52	AV
5470	47.12	8.75	V	55.87	68.20	12.33	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	47.23	8.43	H	55.66	73.98	18.32	PK
5150	29.45	8.43	H	37.88	53.98	16.10	AV
5150	47.02	8.43	V	55.45	73.98	18.53	PK
5150	29.32	8.43	V	37.75	53.98	16.23	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	52.99	8.23	H	61.22	73.98	12.76	PK
5350	30.85	8.23	H	39.08	53.98	14.90	AV
5350	52.48	8.23	V	60.71	73.98	13.27	PK
5350	30.71	8.23	V	38.94	53.98	15.04	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	45.22	8.98	H	54.20	73.98	19.78	PK
5460	28.33	8.98	H	37.31	53.98	16.67	AV
5470	49.77	8.75	H	58.52	68.20	9.68	PK
5460	45.02	8.98	V	54.00	73.98	19.98	PK
5460	28.12	8.98	V	37.10	53.98	16.88	AV
5470	49.55	8.75	V	58.30	68.20	9.90	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	62.65	8.43	H	71.08	73.98	2.90	PK
5150	31.56	8.43	H	39.99	53.98	13.99	AV
5150	62.51	8.43	V	70.94	73.98	3.04	PK
5150	31.23	8.43	V	39.66	53.98	14.32	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	60.78	8.23	H	69.01	73.98	4.97	PK
5350	31.34	8.23	H	39.57	53.98	14.41	AV
5350	60.48	8.23	V	68.71	73.98	5.27	PK
5350	31.22	8.23	V	39.45	53.98	14.53	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	45.27	11.98	H	57.25	73.98	16.73	PK
5460	27.55	11.98	H	39.53	53.98	14.45	AV
5470	51.12	11.75	H	62.87	68.20	5.33	PK
5460	45.02	11.98	V	57.00	73.98	16.98	PK
5460	27.22	11.98	V	39.20	53.98	14.78	AV
5470	50.89	11.75	V	62.64	68.20	5.56	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	62.20	8.43	H	70.63	73.98	3.35	PK
5150	31.63	8.43	H	40.06	53.98	13.92	AV
5150	61.88	8.43	V	70.31	73.98	3.67	PK
5150	31.48	8.43	V	39.91	53.98	14.07	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	60.55	8.23	H	68.78	73.98	5.20	PK
5350	31.28	8.23	H	39.51	53.98	14.47	AV
5350	60.23	8.23	V	68.46	73.98	5.52	PK
5350	31.02	8.23	V	39.25	53.98	14.73	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	45.54	11.98	H	57.52	73.98	16.46	PK
5460	27.22	11.98	H	39.20	53.98	14.78	AV
5470	51.09	11.75	H	62.84	68.20	5.36	PK
5460	45.22	11.98	V	57.20	73.98	16.78	PK
5460	27.01	11.98	V	38.99	53.98	14.99	AV
5470	50.89	11.75	V	62.64	68.20	5.56	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	61.75	8.43	H	70.18	73.98	3.80	PK
5150	34.75	8.43	H	43.18	53.98	10.80	AV
5150	61.36	8.43	V	69.79	73.98	4.19	PK
5150	34.48	8.43	V	42.91	53.98	11.07	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	61.02	8.23	H	69.25	73.98	4.73	PK
5350	39.06	8.23	H	47.29	53.98	6.69	AV
5350	60.89	8.23	V	69.12	73.98	4.86	PK
5350	38.89	8.23	V	47.12	53.98	6.86	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 Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	49.12	11.98	H	61.10	73.98	12.88	PK
5460	27.12	11.98	H	39.10	53.98	14.88	AV
5470	53.44	11.75	H	65.19	68.20	3.01	PK
5460	48.78	11.98	V	60.76	73.98	13.22	PK
5460	26.89	11.98	V	38.87	53.98	15.11	AV
5470	53.02	11.75	V	64.77	68.20	3.43	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	59.85	8.43	H	68.28	73.98	5.70	PK
5150	36.99	8.43	H	45.42	53.98	8.56	AV
5150	59.62	8.43	V	68.05	73.98	5.93	PK
5150	36.78	8.43	V	45.21	53.98	8.77	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	59.99	8.23	H	68.22	73.98	5.76	PK
5350	40.53	8.23	H	48.76	53.98	5.22	AV
5350	59.78	8.23	V	68.01	73.98	5.97	PK
5350	40.32	8.23	V	48.55	53.98	5.43	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 Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	47.99	11.98	H	59.97	73.98	14.01	PK
5460	28.62	11.98	H	40.60	53.98	13.38	AV
5470	51.65	11.75	H	63.40	68.20	4.80	PK
5460	47.55	11.98	V	59.53	73.98	14.45	PK
5460	28.48	11.98	V	40.46	53.98	13.52	AV
5470	51.48	11.75	V	63.23	68.20	4.97	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	50.99	8.43	H	59.42	73.98	14.56	PK
5150	36.52	8.43	H	44.95	53.98	9.03	AV
5150	50.78	8.43	V	59.21	73.98	14.77	PK
5150	35.22	8.43	V	43.65	53.98	10.33	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 Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	55.30	8.23	H	63.53	73.98	10.45	PK
5350	41.22	8.23	H	49.45	53.98	4.53	AV
5350	55.02	8.23	V	63.25	73.98	10.73	PK
5350	40.89	8.23	V	49.12	53.98	4.86	AV

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

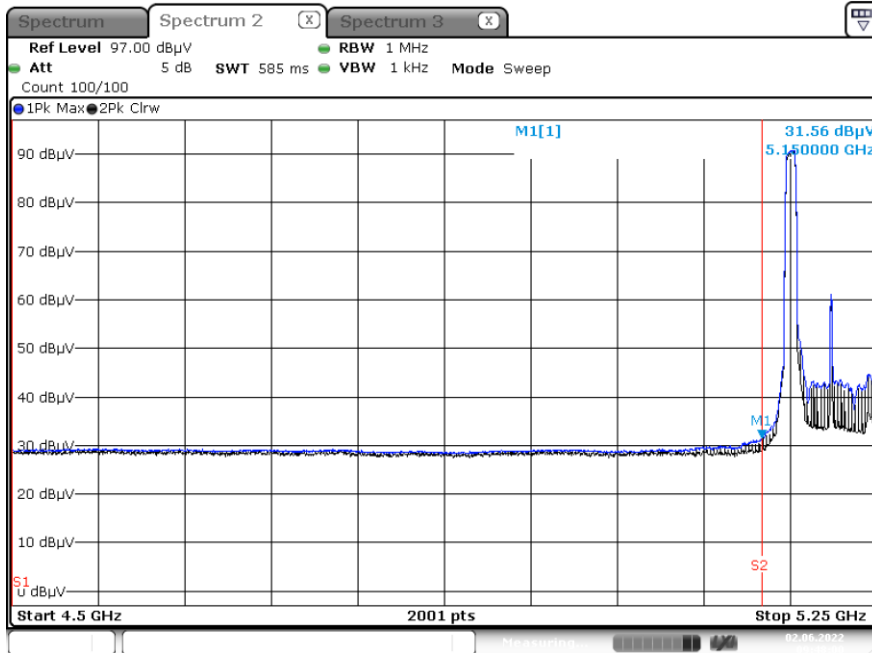
Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	48.76	8.98	H	57.74	73.98	16.24	PK
5460	34.84	8.98	H	43.82	53.98	10.16	AV
5470	52.57	8.75	H	61.32	68.20	6.88	PK
5460	48.55	8.98	V	57.53	73.98	16.45	PK
5460	34.78	8.98	V	43.76	53.98	10.22	AV
5470	52.12	8.75	V	60.87	68.20	7.33	PK

Note:

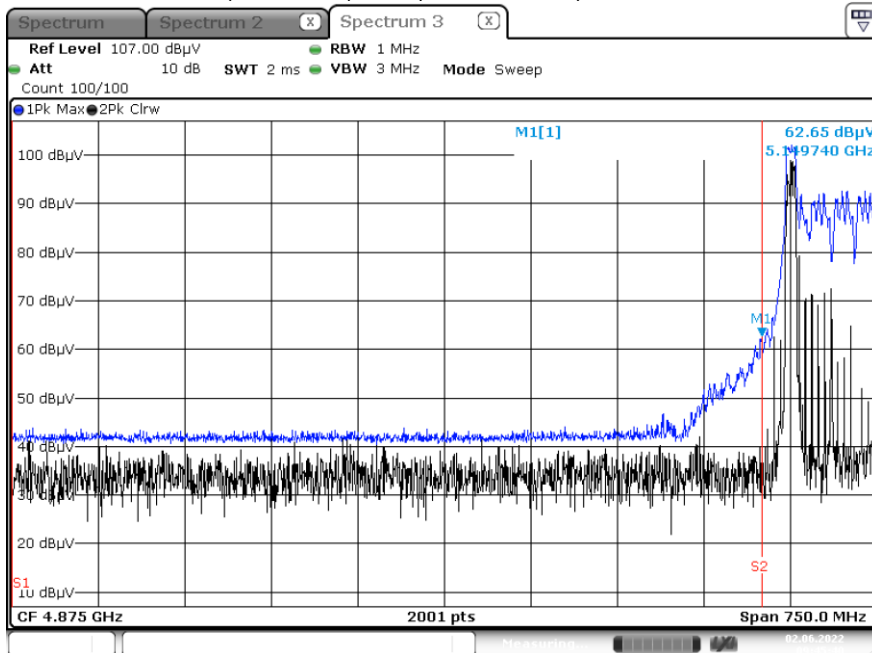
All Modes of operation were investigated and the worst case configuration results are reported.
In order to simplify the report, We only have attached Bandedge result of worst case.

☑ Test Plots(UNII 1, 2A, 2C),
[MIMO]

Average result (802.11ax(HE80), Ch.42, X-H) –106 Tone RU 53



Peak result (802.11ax(HE80), Ch.42, X-H) - 106 Tone RU 53



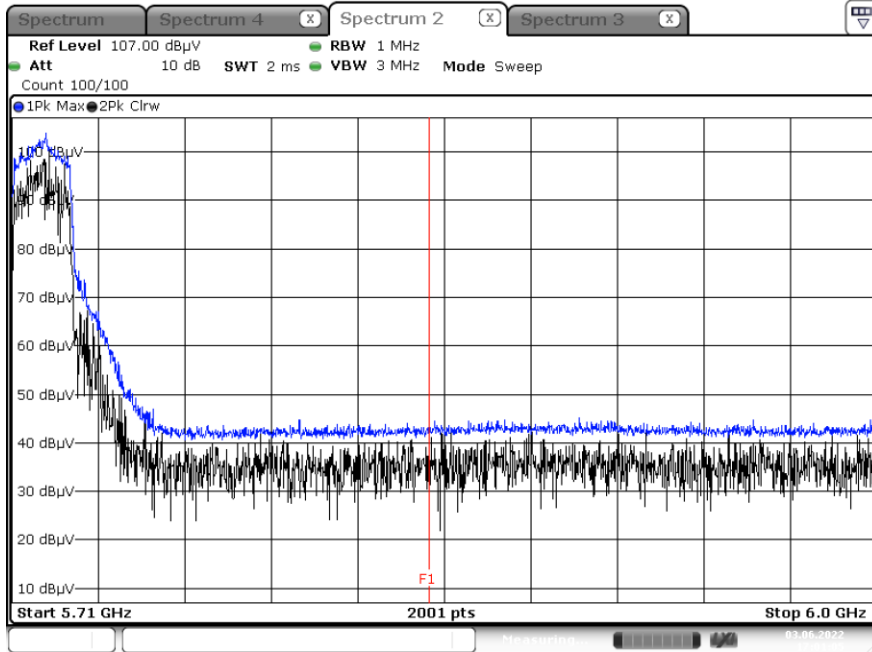
Note:

Only the worst case plots for Radiated Restricted Band Edge.

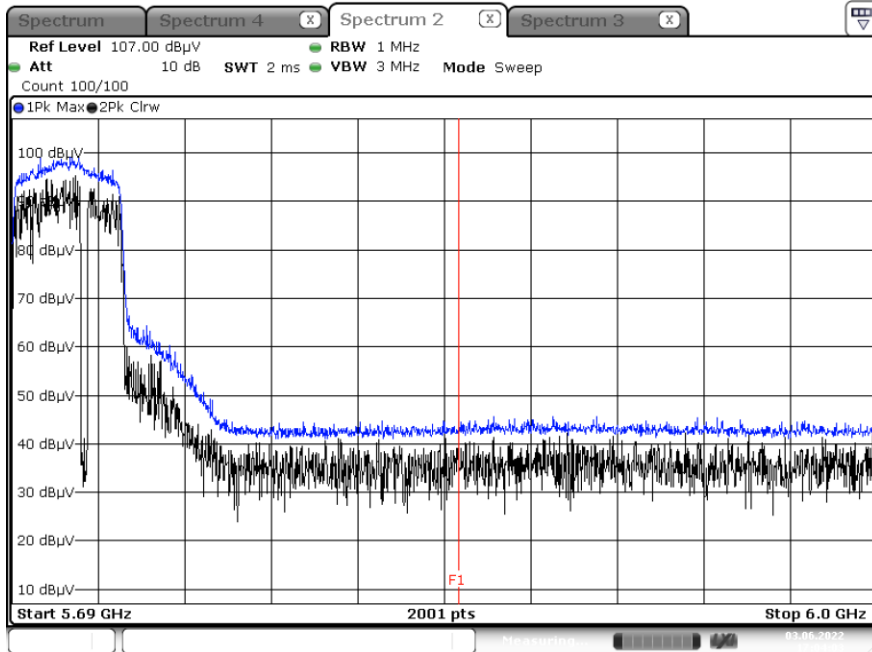
▣ Test Plots(Staraddle Channel)

[MIMO]

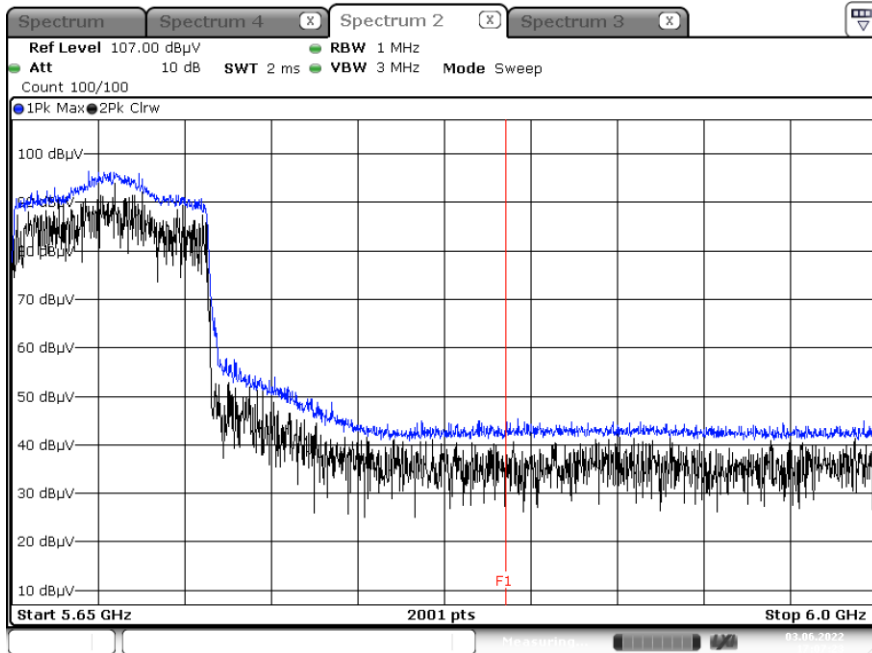
Peak result (802.11ax(HE20), Ch.144, SU, X-H)



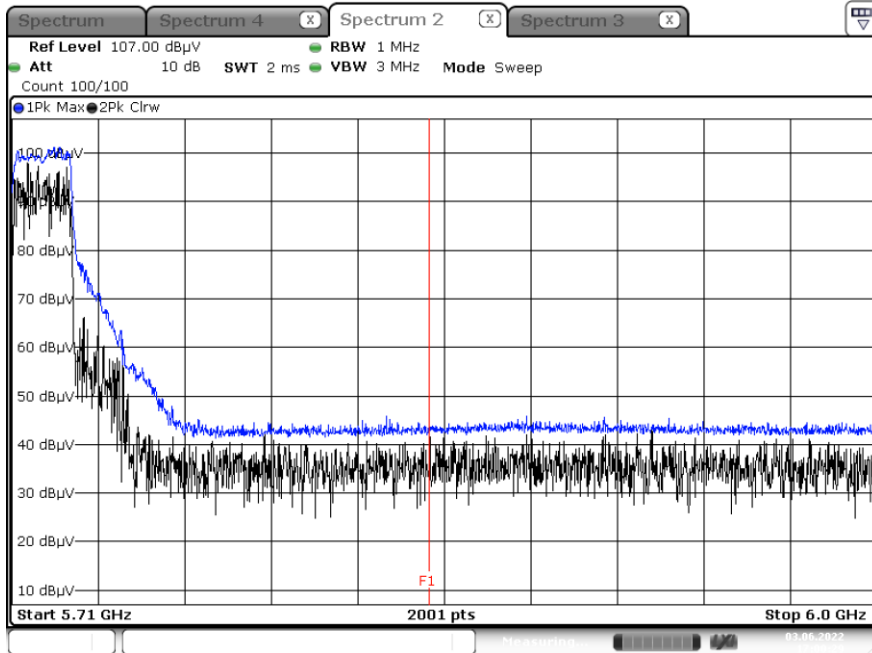
Peak result (802.11ax(HE40), Ch.142, SU, X-H)



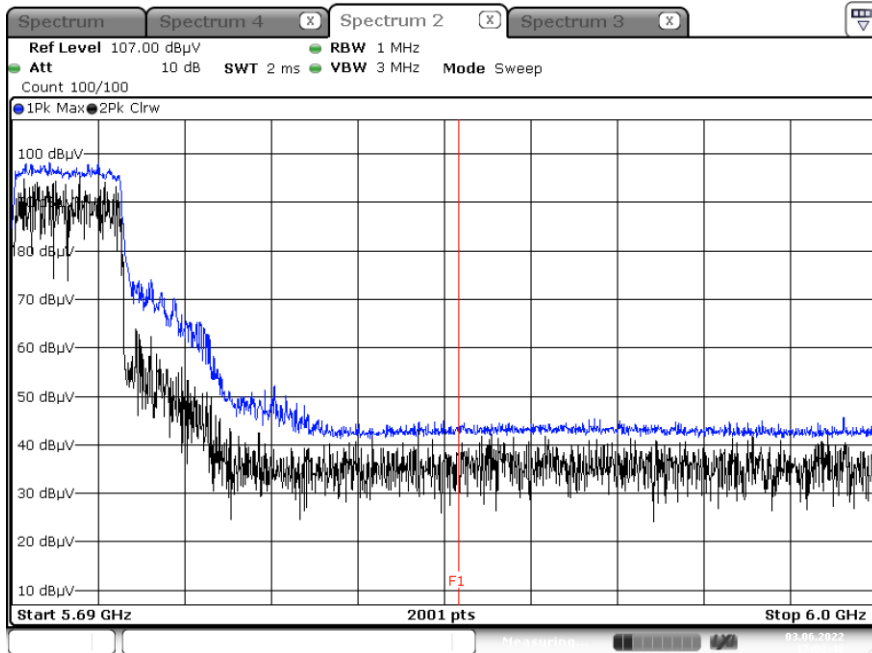
Peak result (802.11ax(HE80), Ch.138, SU, X-H)



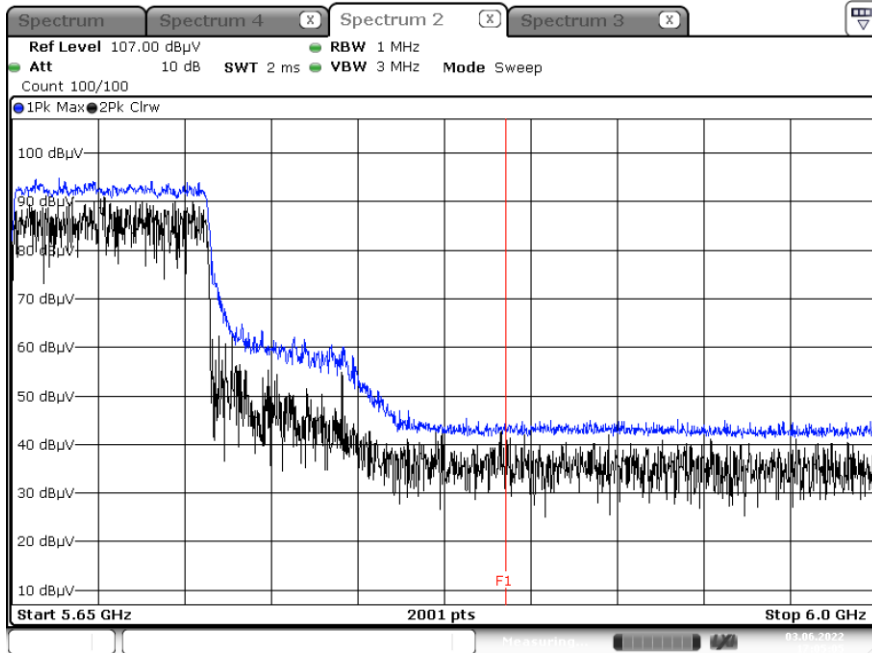
Peak result (802.11ax(HE20), Ch.144, 242 Tone RU 61, X-H)



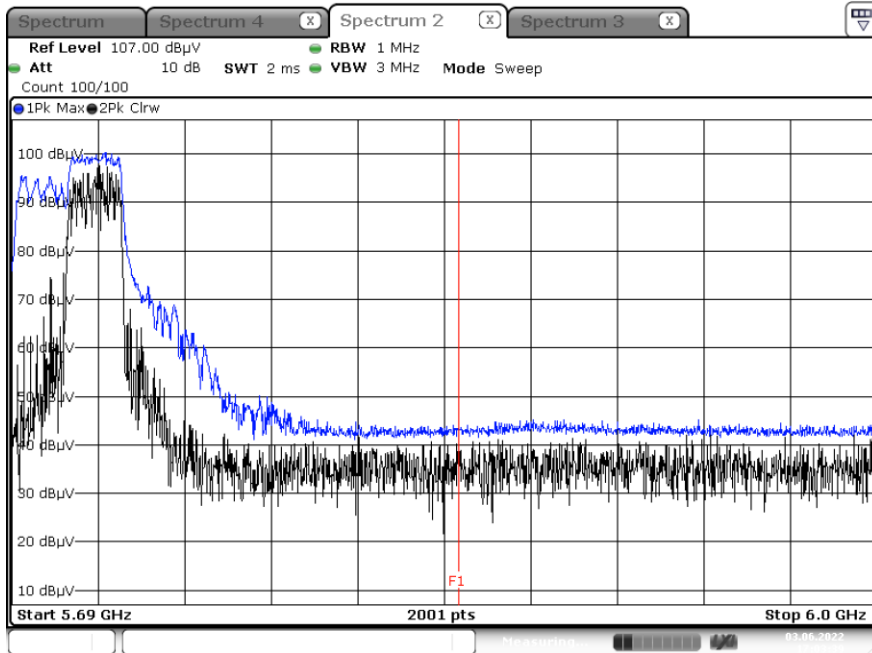
Peak result (802.11ax(HE40), Ch.142, 484 Tone RU 65, X-H)



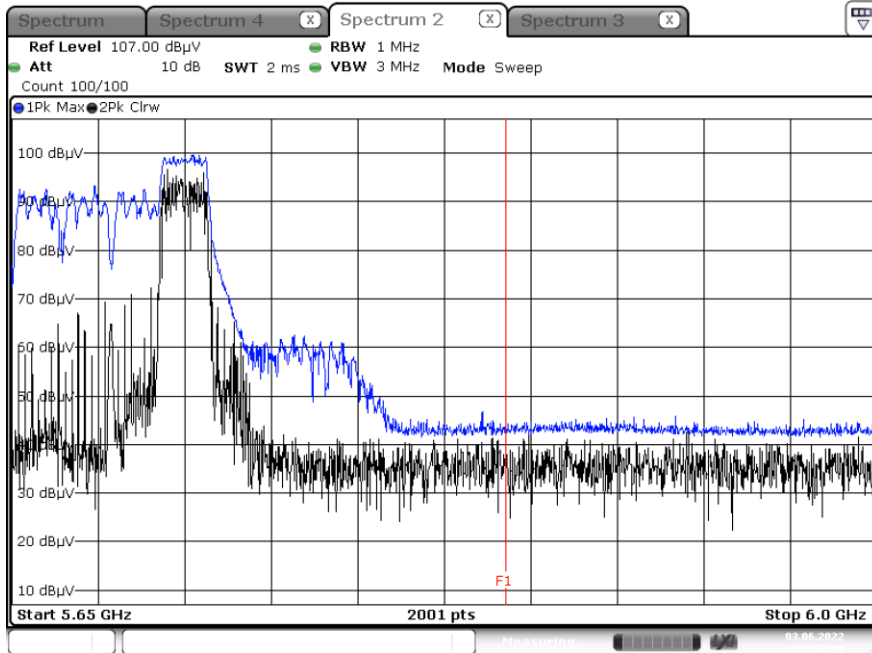
Peak result (802.11ax(HE80), Ch.138, 996 Tone RU 67, X-H)



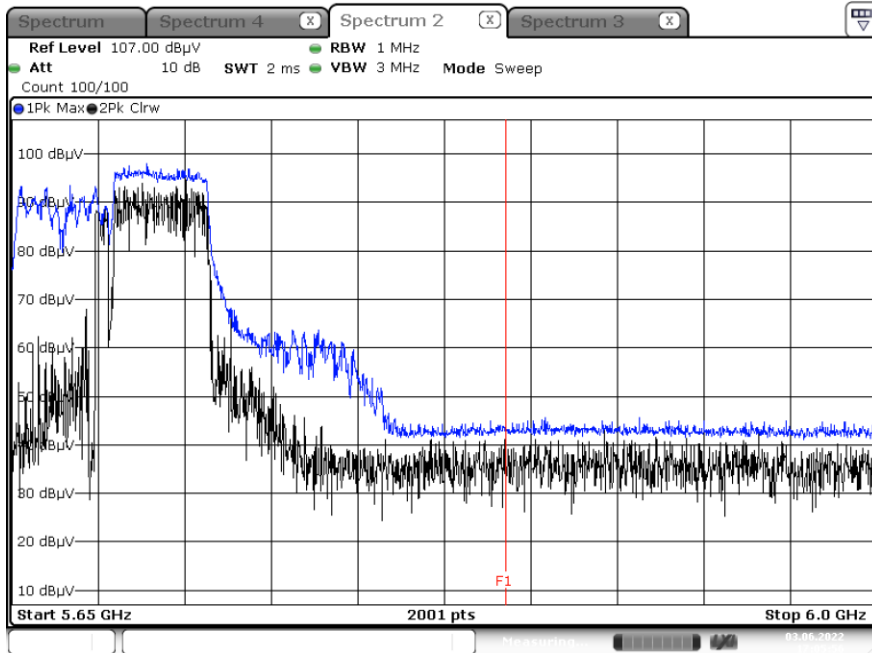
Peak result (802.11ax(HE40), Ch.142, 242 Tone RU 62, X-H)



Peak result (802.11ax(HE80), Ch.138, 242 Tone RU 64, X-H)



Peak result (802.11ax(HE80), Ch.138, 484 Tone RU 66, X-H)



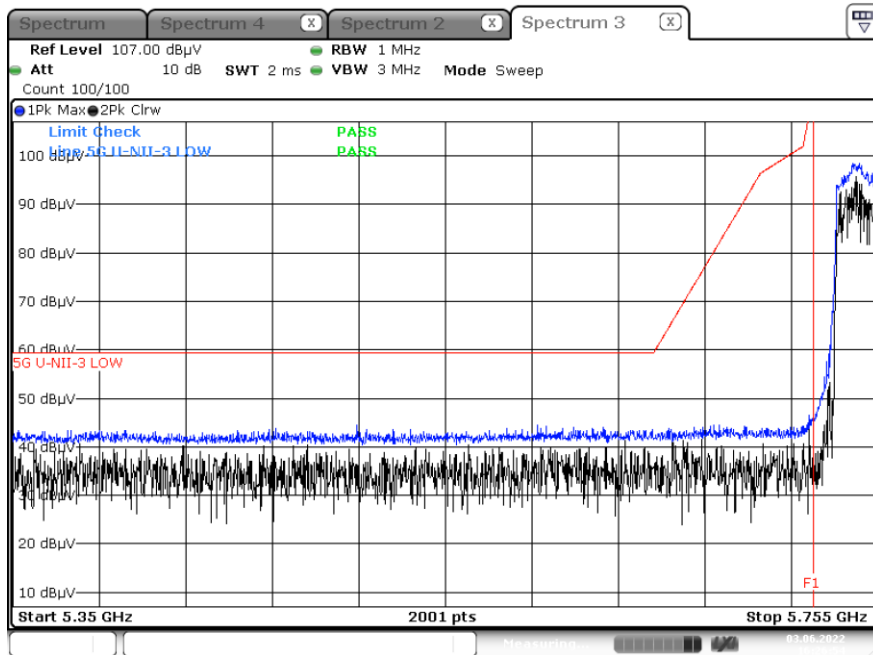
Note :

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

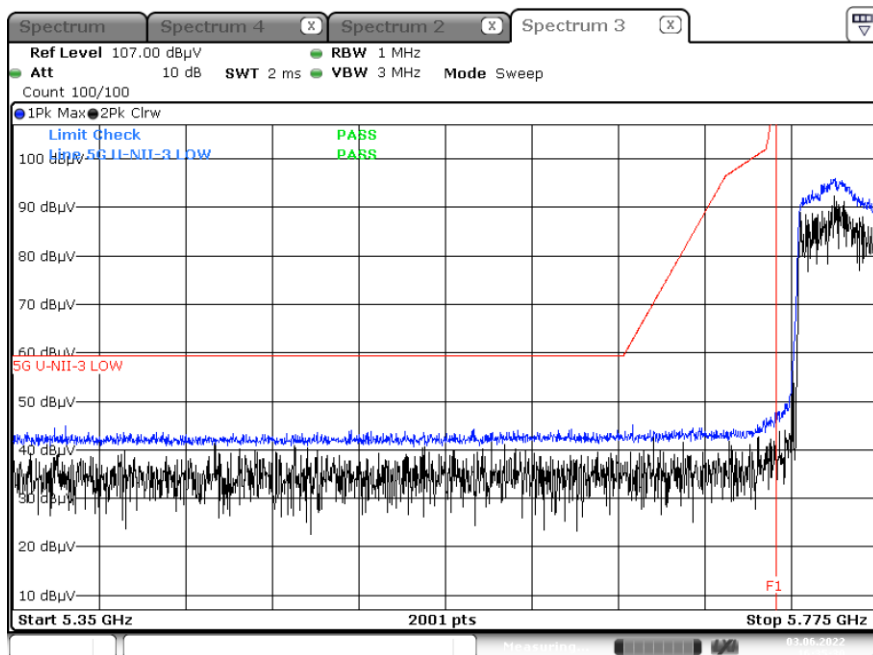
▣ Test Plots(UNII 3)_Low Edge

[MIMO]

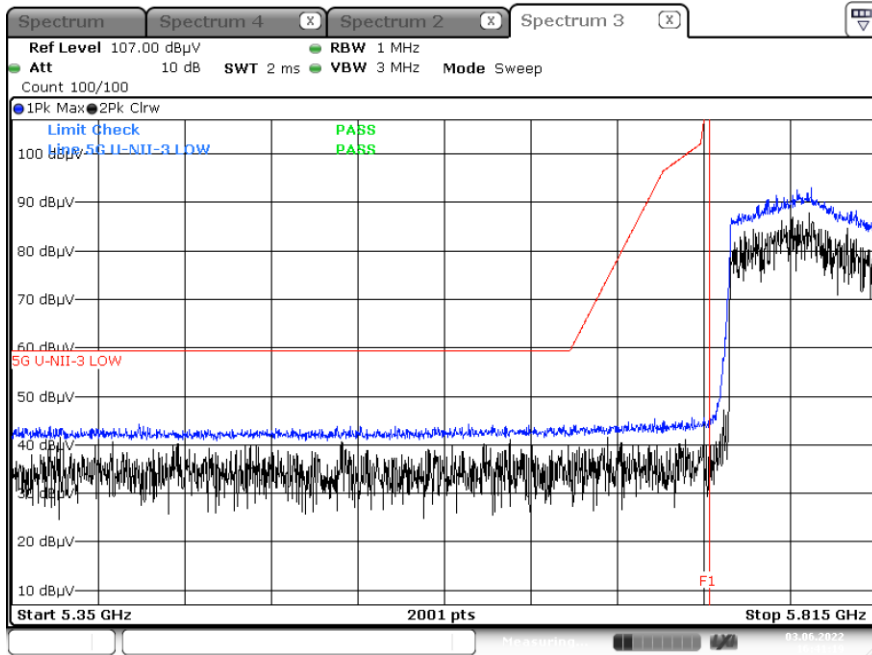
Peak result (802.11ax(HE20), Ch.149, SU, X-H)



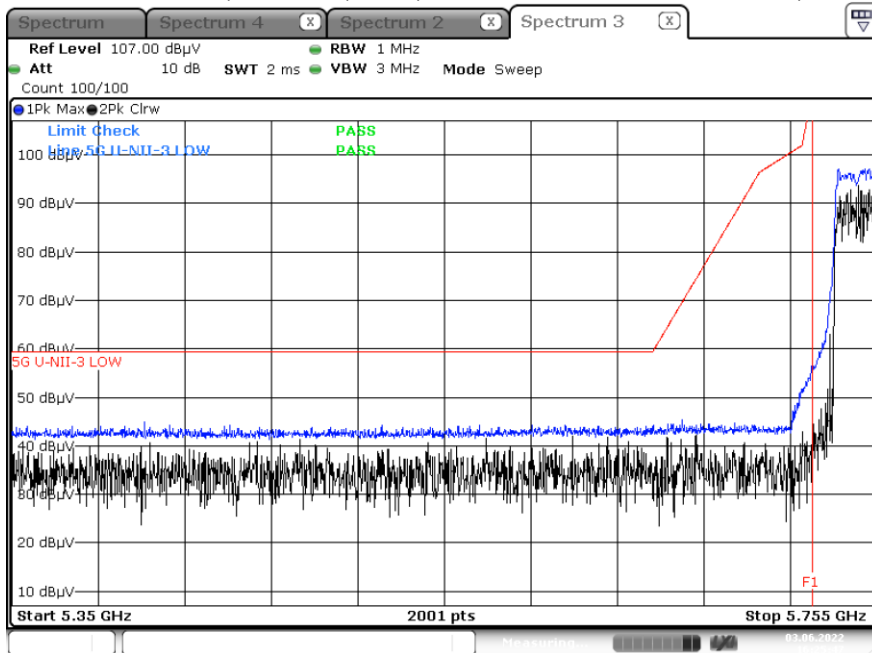
Peak result (802.11ax(HE40), Ch.151, SU, X-H)



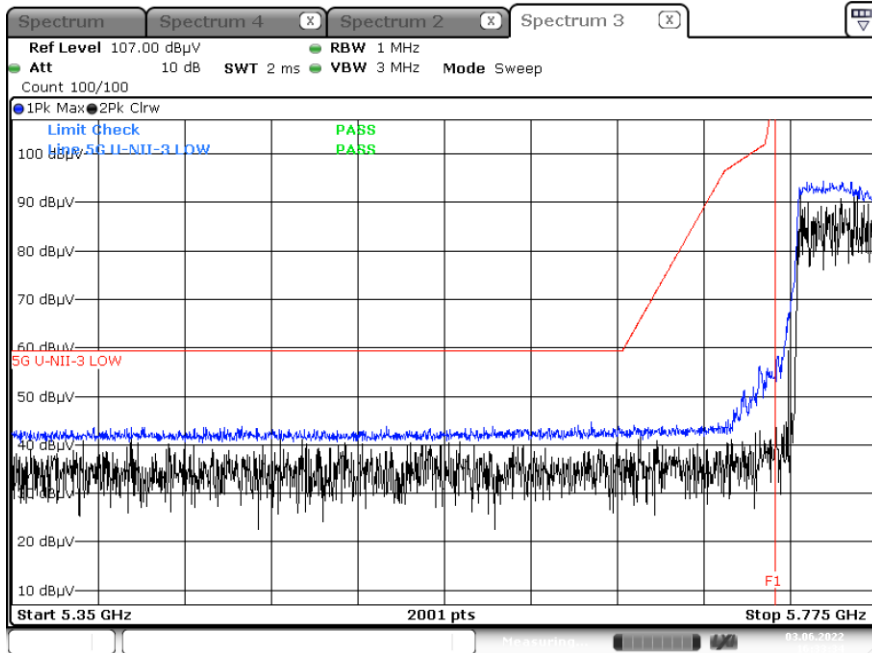
Peak result (802.11ax(HE80), Ch.155, SU, X-H)



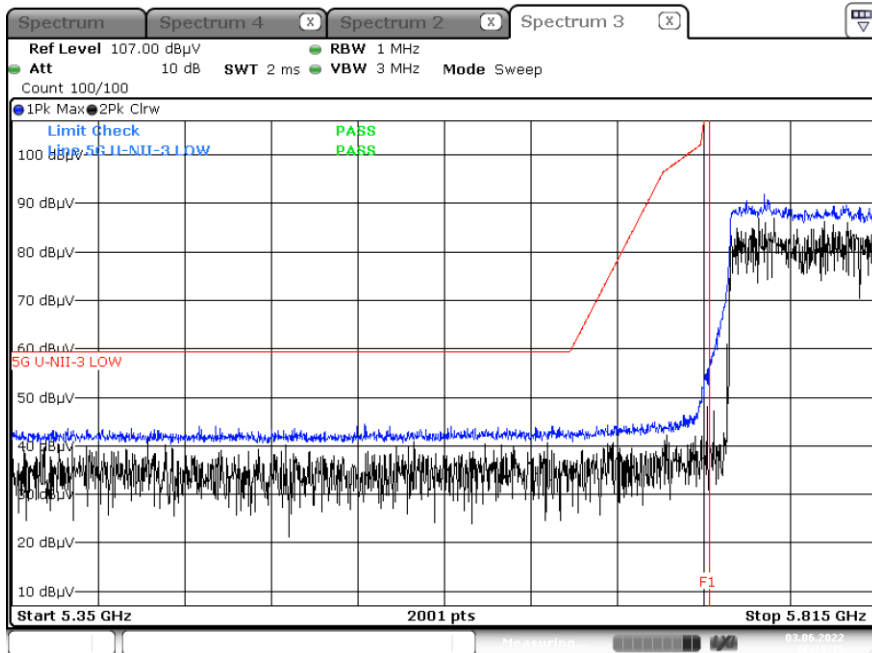
Peak result (802.11ax(HE20), Ch.149, 242 Tone RU 61, X-H)



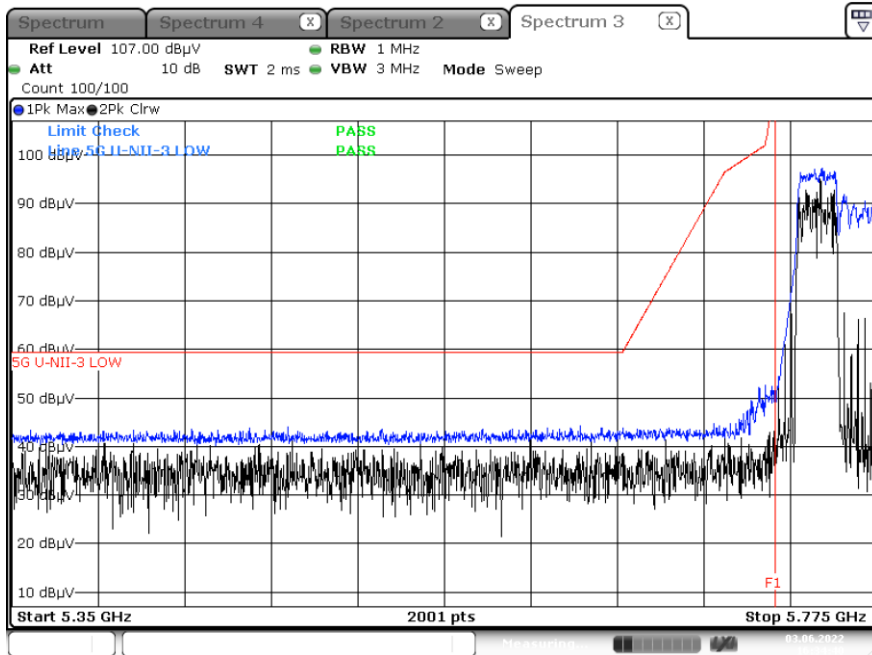
Peak result (802.11ax(HE40), Ch.151, 484 Tone RU 65, X-H)



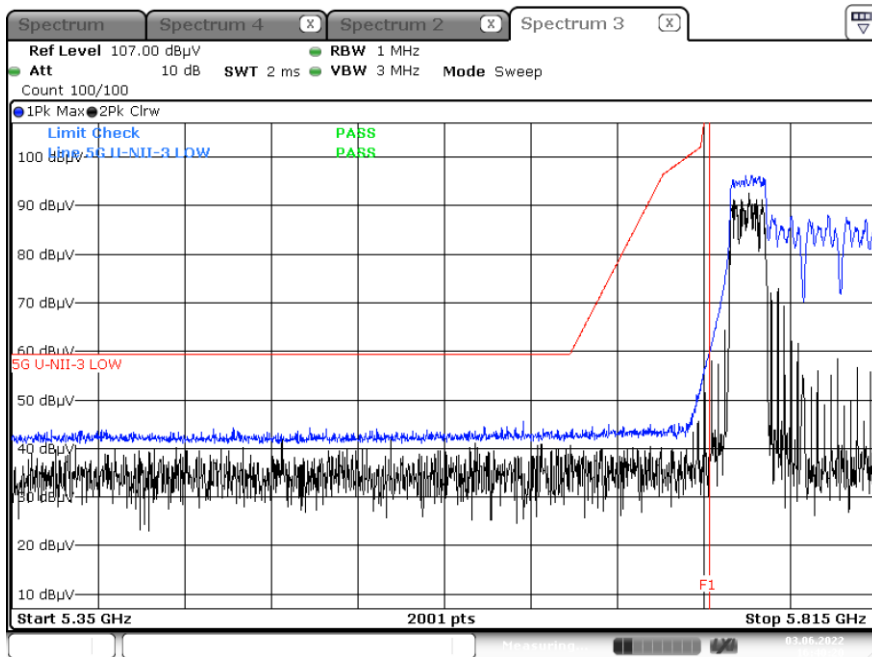
Peak result (802.11ax(HE80), Ch.155, 996 Tone RU 67, X-H)



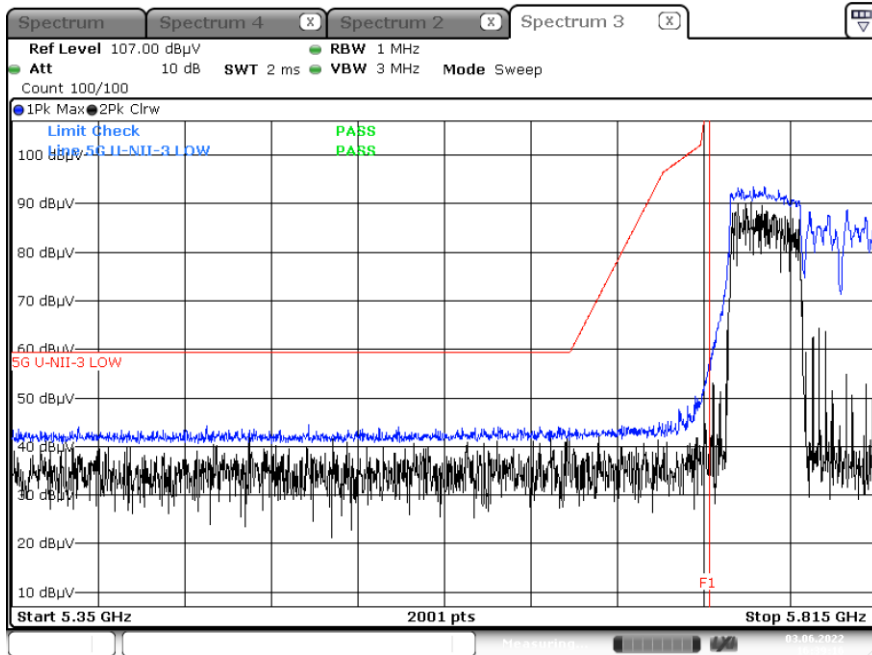
Peak result (802.11ax(HE40), Ch.151, 242 Tone RU 61, X-H)



Peak result (802.11ax(HE80), Ch.155, 242 Tone RU 61, X-H)



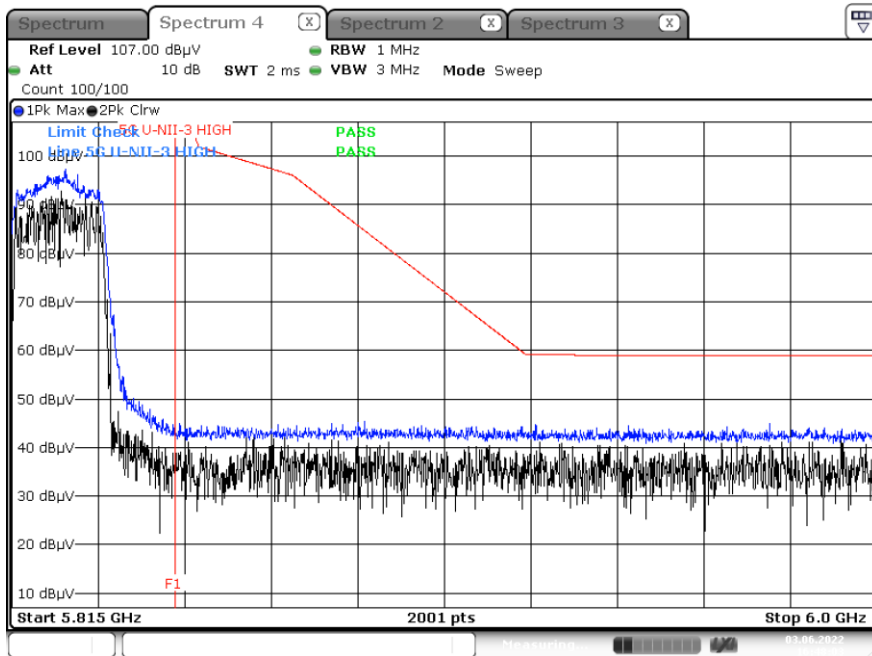
Peak result (802.11ax(HE80), Ch.155, 484 Tone RU 65, X-H)



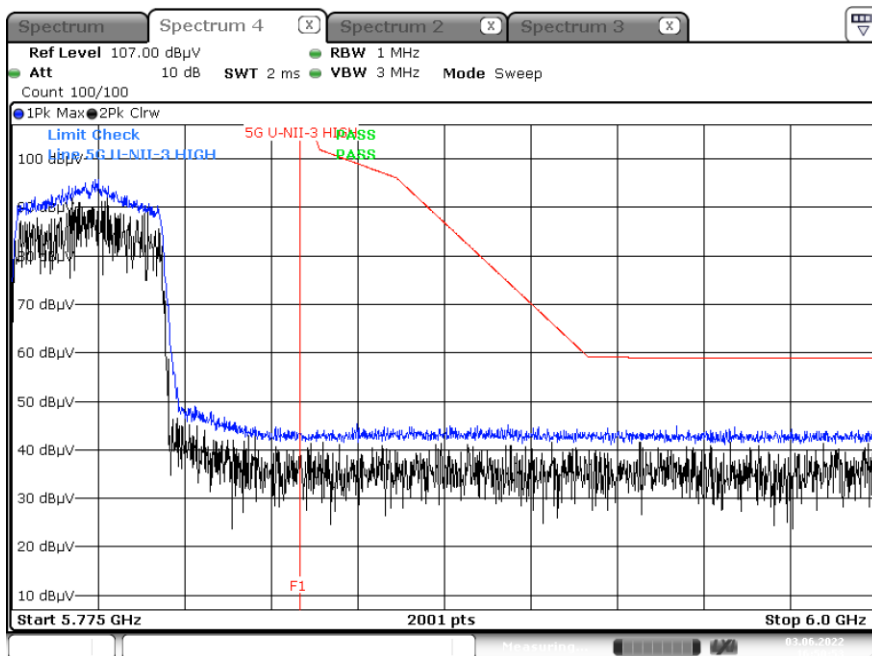
▣ Test Plots(UNII 3)_High Edge

[MIMO]

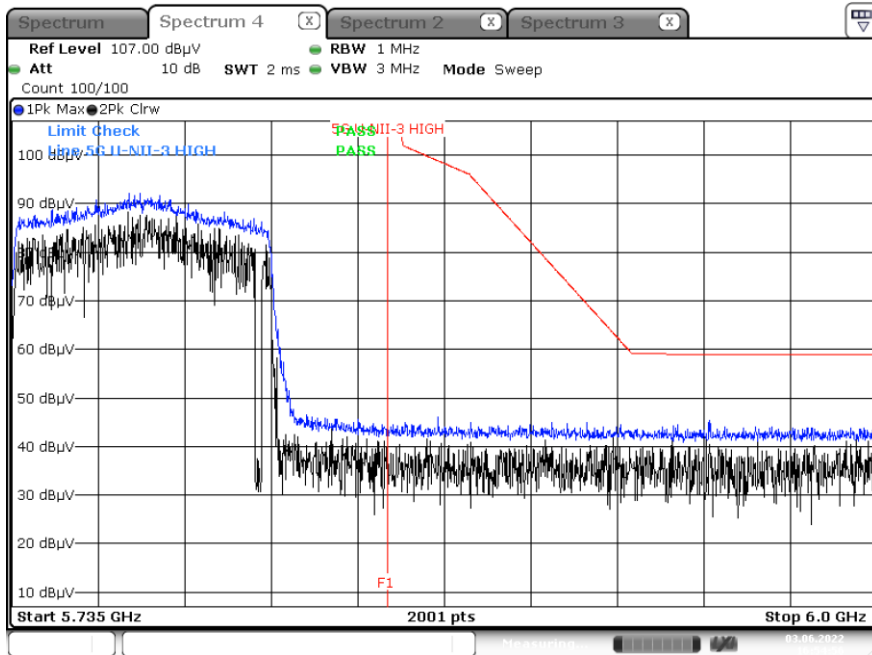
Peak result (802.11ax(HE20), Ch.165, SU, X-H)



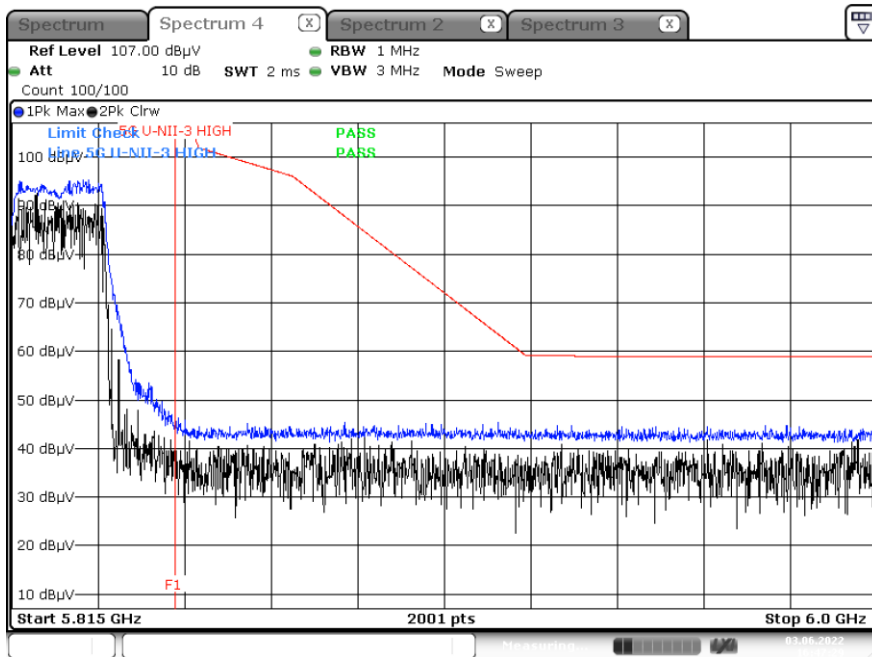
Peak result (802.11ax(HE40), Ch.159, SU, X-H)



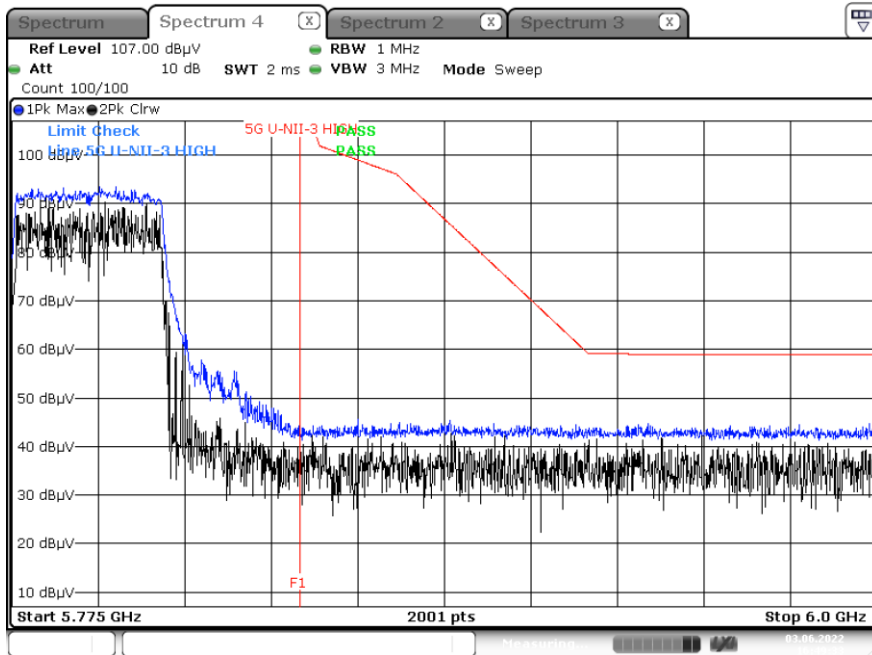
Peak result (802.11ax(HE80), Ch.155, SU, X-H)



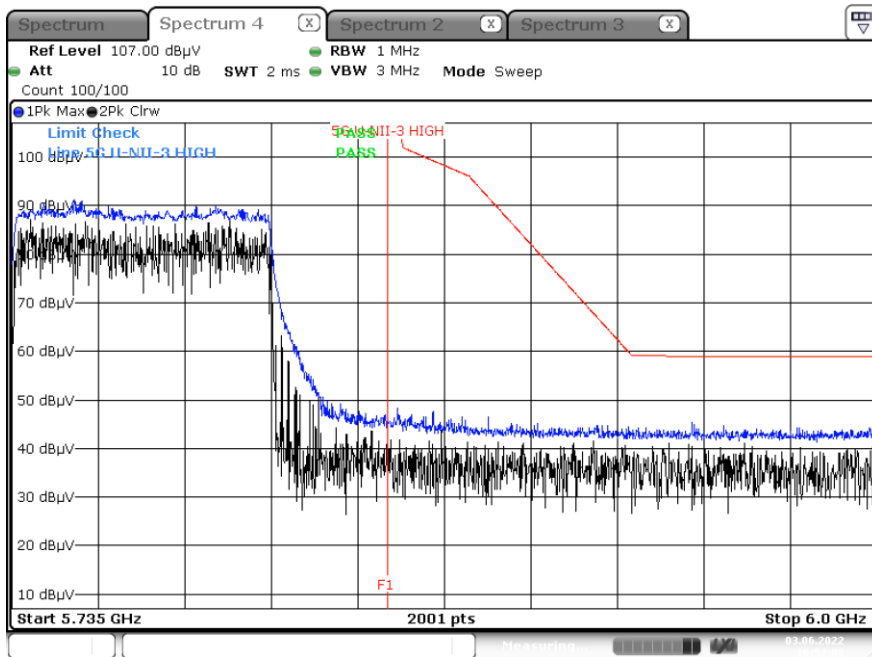
Peak result (802.11ax(HE20), Ch.165, 242 Tone RU 61, X-H)



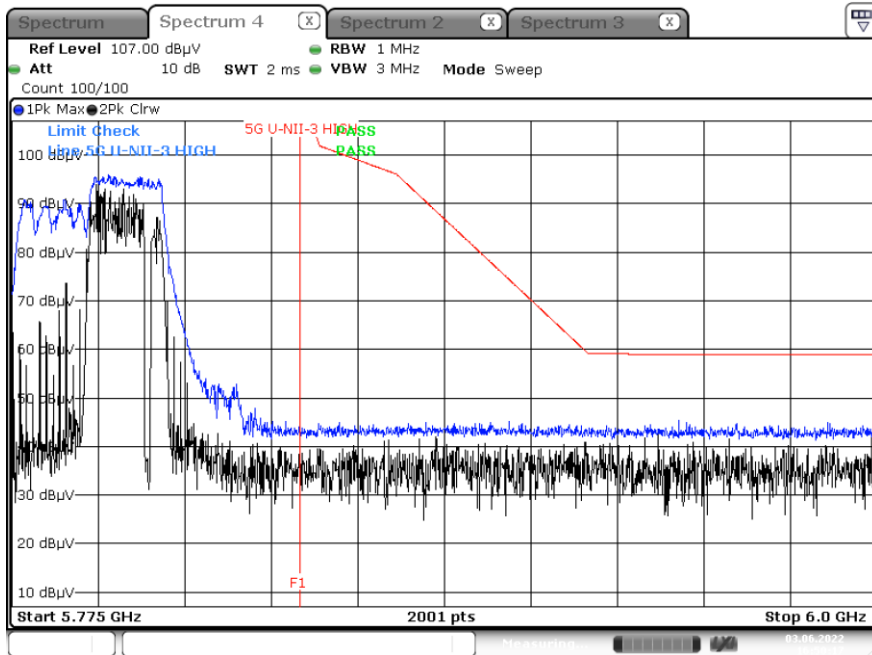
Peak result (802.11ax(HE40), Ch.159, 484 Tone RU 65, X-H)



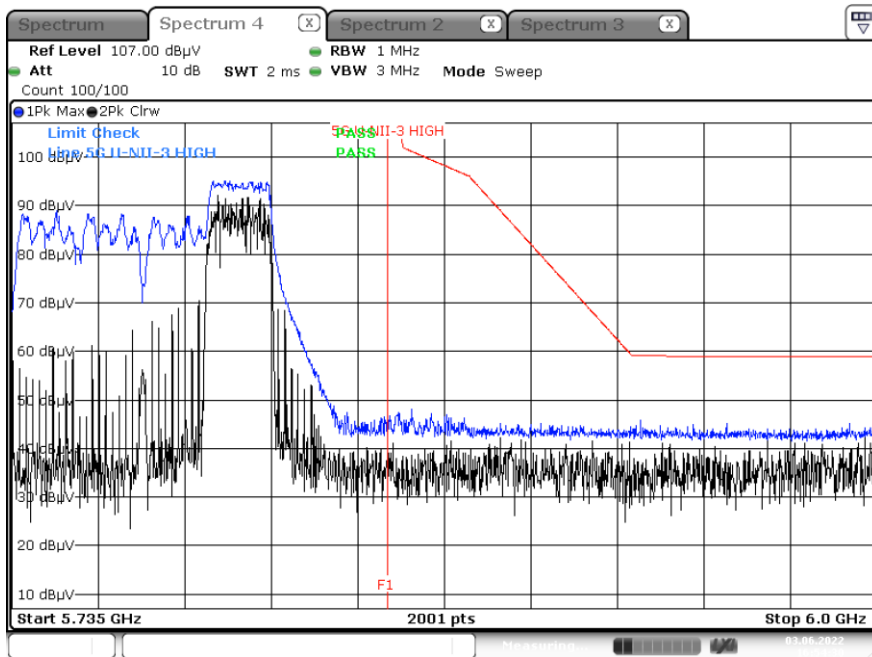
Peak result (802.11ax(HE80), Ch.155, 996 Tone RU 67, X-H)



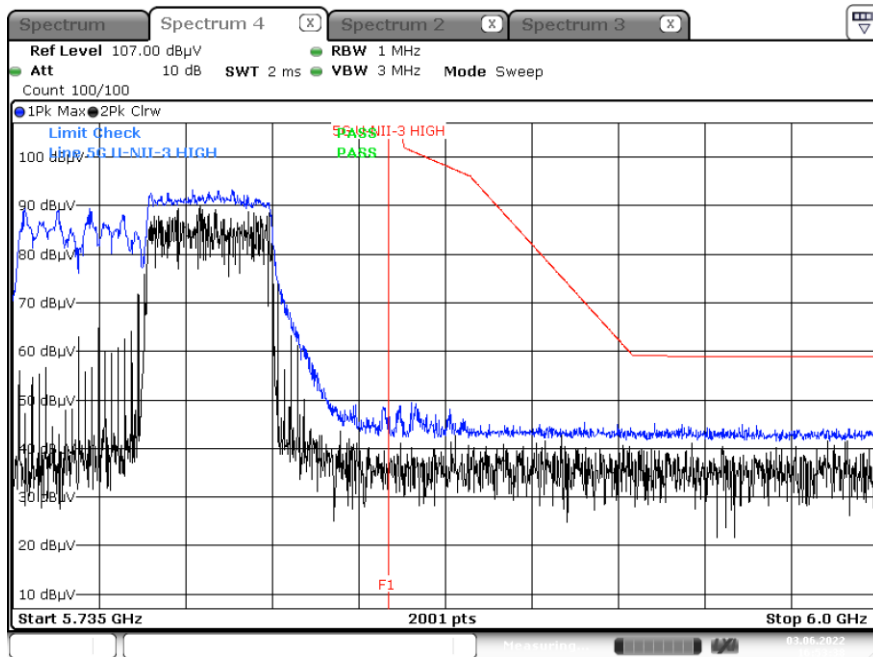
Peak result (802.11ax(HE40), Ch.159, 242 Tone RU 62, X-H)



Peak result (802.11ax(HE80), Ch.155, 242 Tone RU 64, X-H)



Peak result (802.11ax(HE80), Ch.155, 484 Tone RU 66, 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	06/07/2023	Annual
Temperature Chamber	SU-642	ESPEC	0093008124	03/04/2023	Annual
Signal Analyzer	N9030A	Agilent	MY49432108	03/08/2023	Annual
Power Measurement Set	OSP 120	Rohde & Schwarz	101231	06/14/2023	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	E3632A	HP	KR75303243	04/25/2023	Annual
Attenuator(10 dB)(DC-26.5 GHz)	8493C	HP	08285	06/28/2022	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

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
EM1000 / Controller	EM1000	Audix	060520	N/A	N/A
Turn Table	N/A	Audix	N/A	N/A	N/A
Amp &Filter Bank Switch Controller	FBSM-01B	TNM system	TM19050002	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-1300	01/18/2024	Biennial
Horn Antenna(15 GHz ~ 40 GHz)	BBHA9170	Schwarzbeck	BBHA9170124	04/12/2023	Biennial
Spectrum Analyzer	FSV(10 Hz ~ 40 GHz)	Rohde & Schwarz	101055	05/16/2023	Annual
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	06/13/2023	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments	6	06/13/2023	Annual
High Pass Filter(7 GHz ~ 18 GHz)	WHKX10-7150-8000-18000-50SS	Wainwright Instruments	1	03/11/2023	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
HPF(3~18GHz)+ NA1(1~18GHz)	FMSR-05B	TNM system	F6	01/19/2023	Annual
ATT(10dB) + LNA1(1~18GHz)	FMSR -05B	TNM system	None	01/19/2023	Annual
ATT(3dB) + LNA1(1~18GHz)	FMSR -05B	TNM system	None	01/19/2023	Annual
LNA1(1~18GHz)	FMSR -05B	TNM system	25540	01/19/2023	Annual
HPF(7~18GHz)+NA2(6~18GHz)	FMSR -05B	TNM system	28550	01/19/2023	Annual
Thru(30MHz ~ 18GHz)	FMSR -05B	TNM system	None	01/19/2023	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.
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-2206-FC013-P