



FCC RADIO TEST REPORT

FCC ID : PY7-15465A
Equipment : GSM/WCDMA/LTE Phone with BT, DTS/UNII
a/b/g/n/ac, GPS, FM Receiver and NFC
Brand Name : SONY
Applicant : Sony Corporation
1-7-1 Konan Minato-ku Tokyo, 108-0076 Japan
Manufacturer : Sony Corporation
1-7-1 Konan Minato-ku Tokyo, 108-0076 Japan
Standard : FCC Part 15 Subpart E §15.407
Test Date(s) : Oct. 18, 2021 ~ Dec. 23, 2021

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

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

Jason Jia

Reviewed by: Jason Jia / Supervisor

Alex Wang

Approved by: Alex Wang / Manager



Sporton International (Kunshan) Inc.

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



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Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 3.76 dB at 5459.60 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 7.52 dB at 0.171 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n/ac, NFC, FM Receiver and GNSS.

Product Specification subjective to this standard	
Antenna Type / Gain	<5150 MHz ~ 5250 MHz> PIFA Antenna with gain -1.40 dBi
	<5250 MHz ~ 5350 MHz> PIFA Antenna with gain -1.20 dBi
	<5470 MHz ~ 5725 MHz> PIFA Antenna with gain -1.00 dBi

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

EUT Information List			
HW Version	SW Version	S/N	Performed Test Item
A	0.48	HQ618X02D2	RF conducted measurement
	0.106	HQ61B2014B	Radiated Spurious Emission
	0.106	HQ618X0253	AC Conducted Emission

Note: For other wireless features of this EUT, test report will be issued separately.

1.2 Modification of EUT

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

1.3 Testing Location

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

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH05-KS TH01-KS	CN1257	314309



1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

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



2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find Y plane as worst plane.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42 [#]	5210		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58 [#]	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700



Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122 [#]	5610	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138 [#]	5690	144	5720
	142*	5710		

Note:

1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel in "[#]" were 802.11ac VHT80.

2.2 Test Mode

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

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

Remark: Since the verify power, the same operating range bandwidth and smaller power can be covered by the higher power.

Co-location Mode
GSM1900 Link + WLAN 5GHz Link (802.11ac VHT80 Ch.106) + BT Link (BLE 5.0 Ch.39)

Test Cases	
AC Conducted Emission	Mode 1 : GSM850 Idle + Bluetooth Idle + WLAN (5GHz) Idle + Earphone + USB Cable (Charging from AC Adapter)



Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

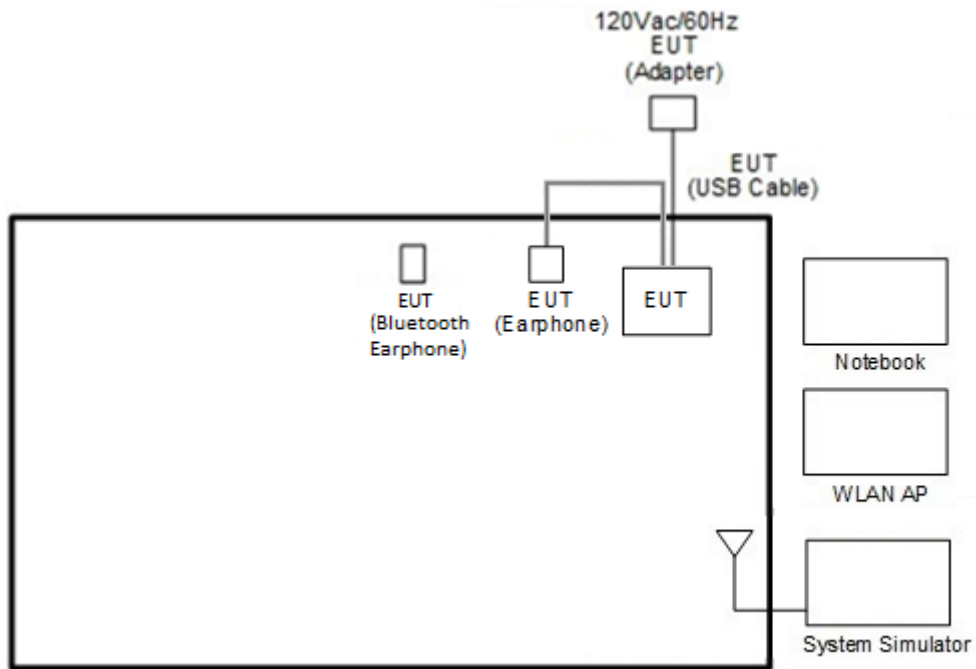
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

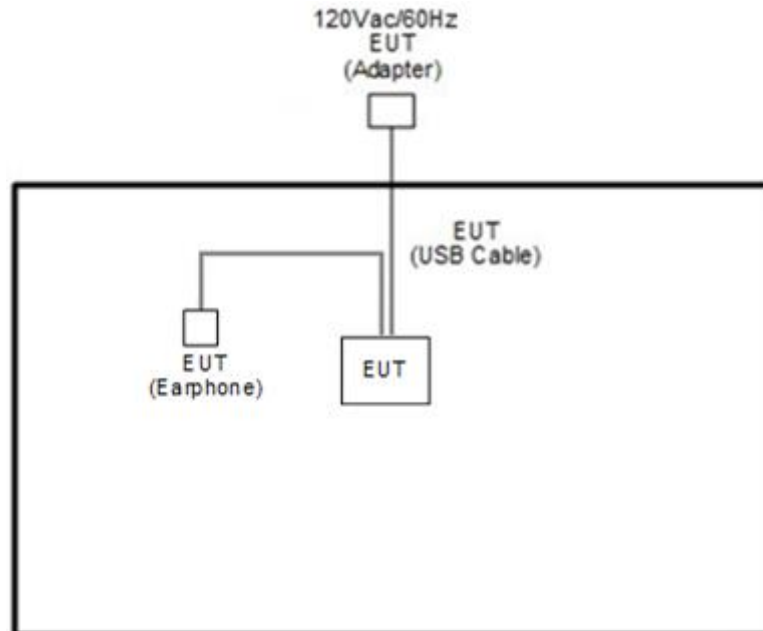
Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN TX Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded,1.8m
2.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
3.	Notebook	Dell	G480	QDS-BRCM1050I	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
4.	SD Card	Kingston	8GB	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “FTM” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 6.8 dB.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\
 &= 6.8 \text{ (dB)}
 \end{aligned}$$

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

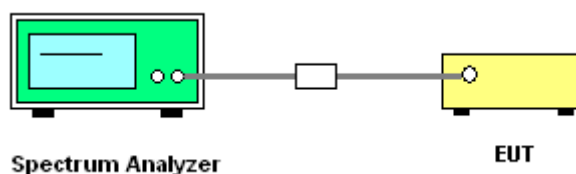
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak 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%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
8. Measure and record the results in the test report.

3.1.4 Test Setup

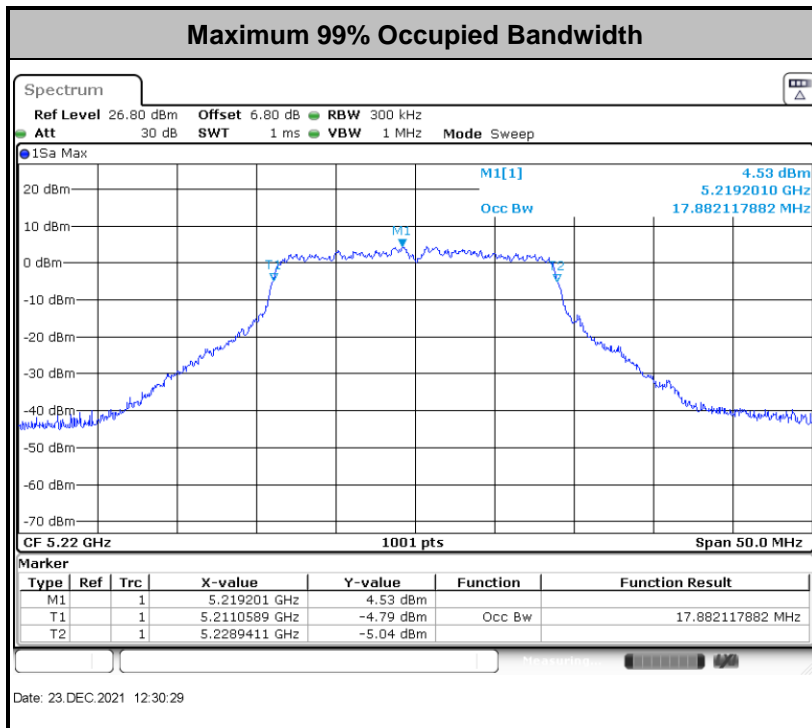
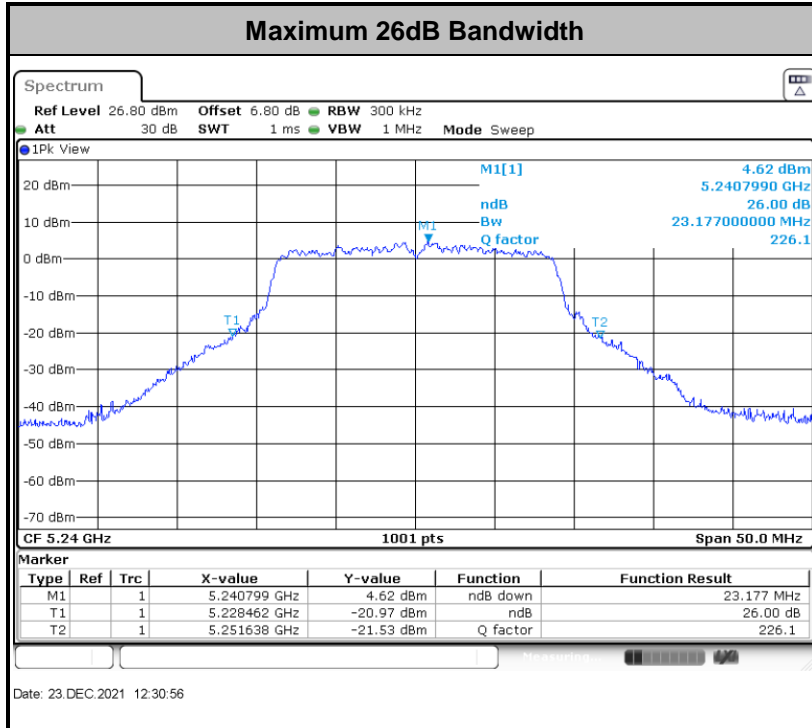




3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

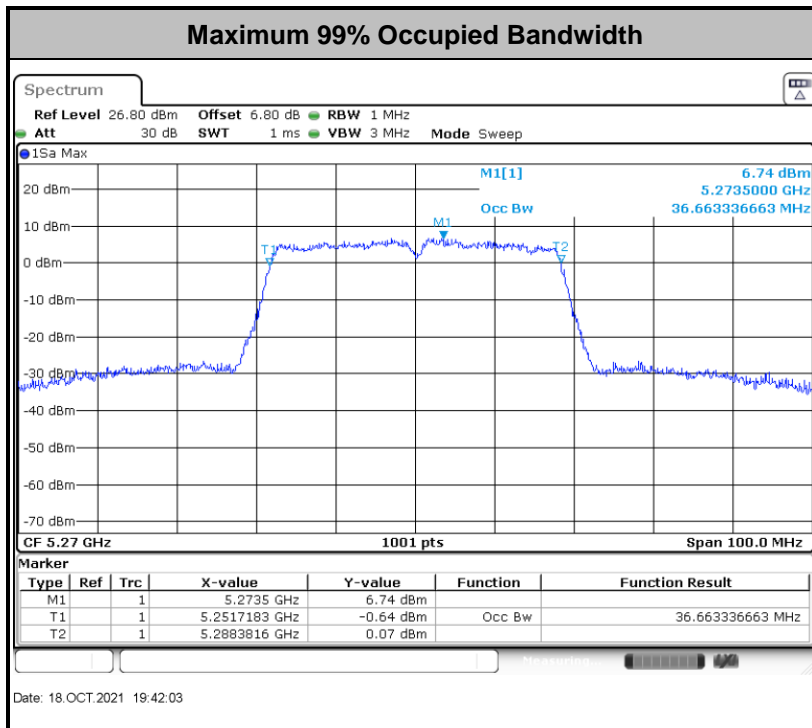
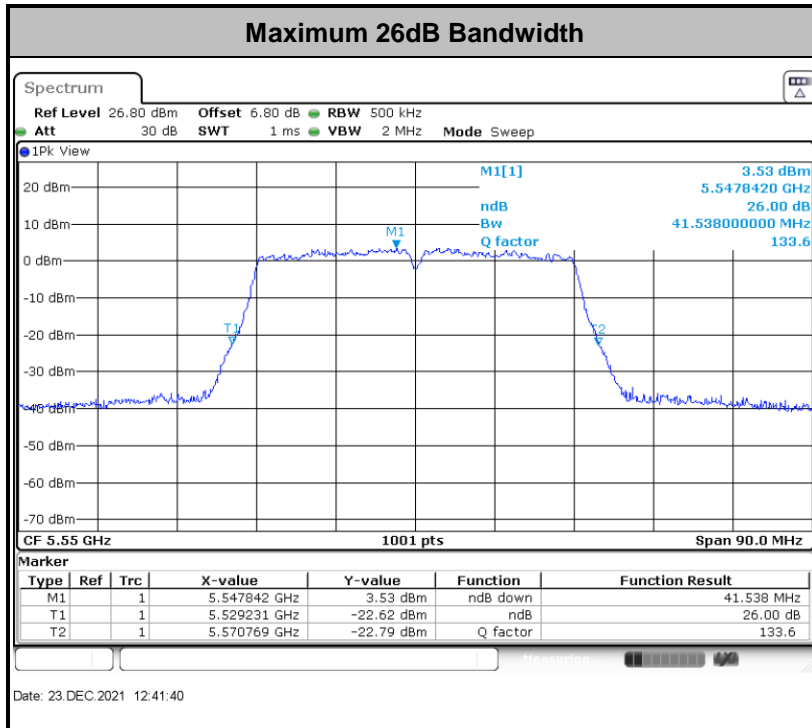
Please refer to Appendix A.

<For 20MHz>



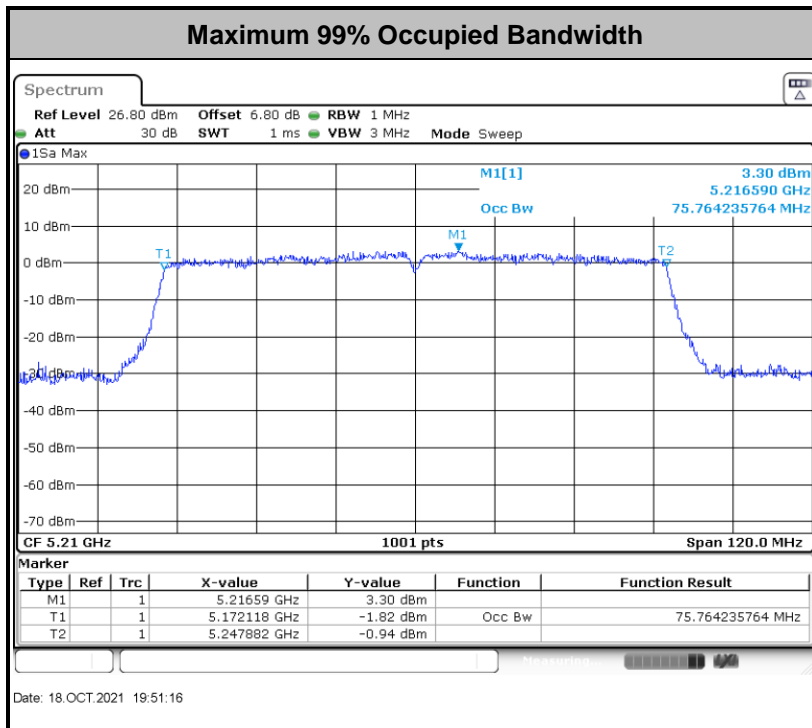
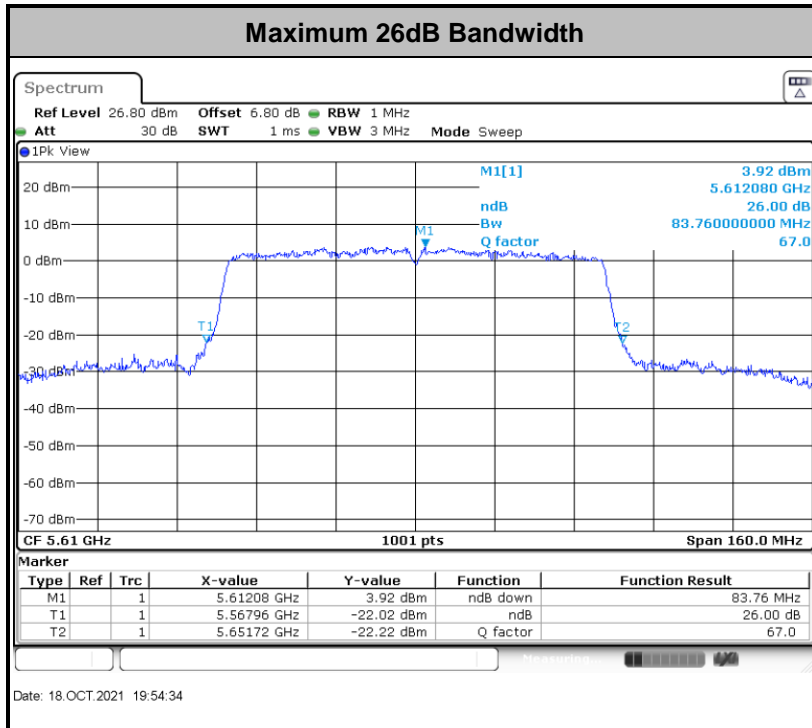


<For 40MHz>





<For 80MHz>



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



3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

■ For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

For the 5.25–5.725 GHz bands:

■ The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

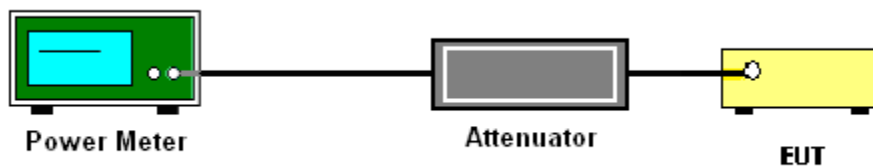
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.

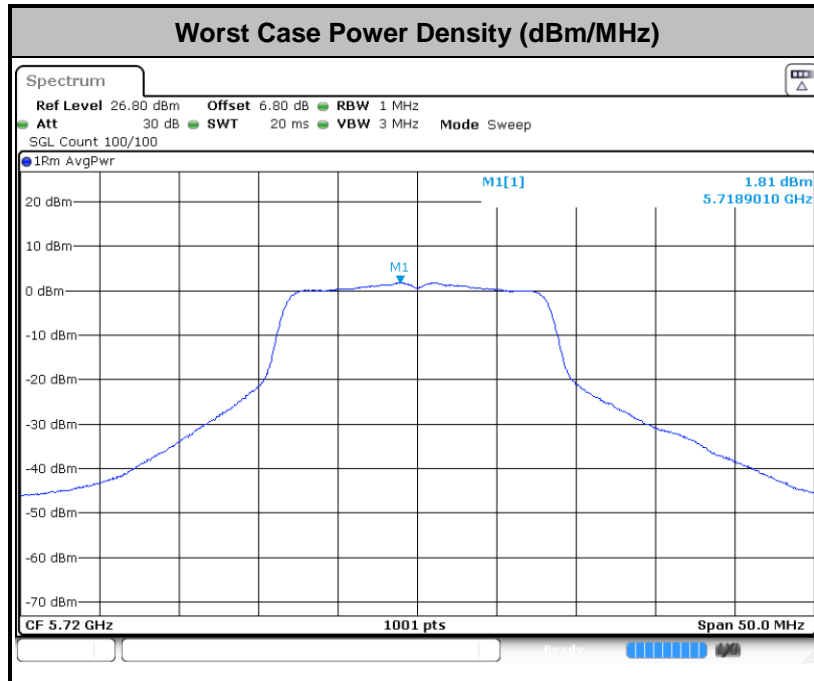
For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



Note: Average Power Density (dB) = Measured value+ Duty Factor



3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table:

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

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$



EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

(3) KDB789033 D02 v02r01 G)2)c)

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

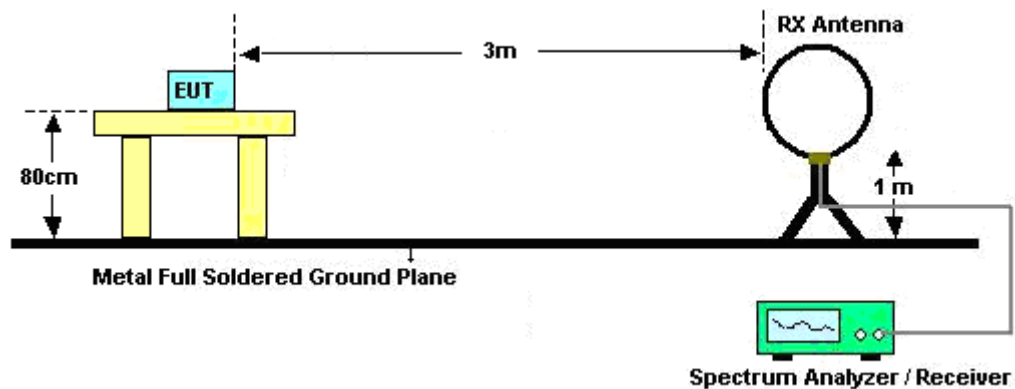
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

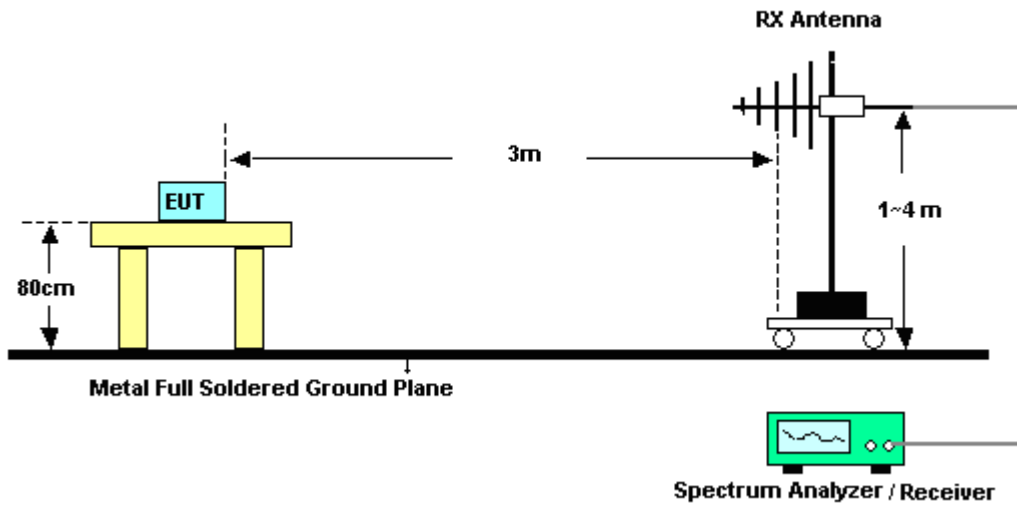
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1 GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

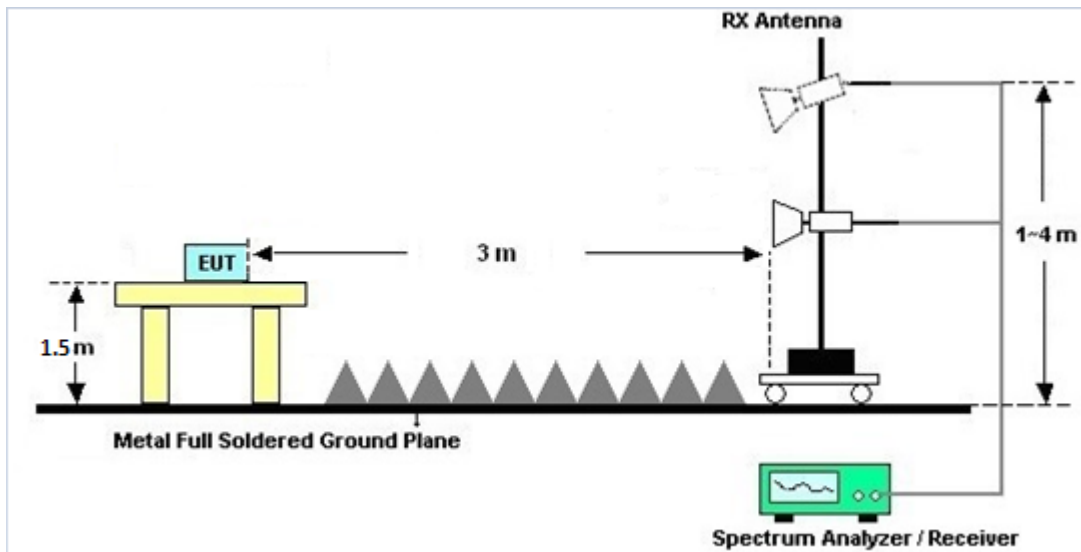
For radiated emissions below 30MHz



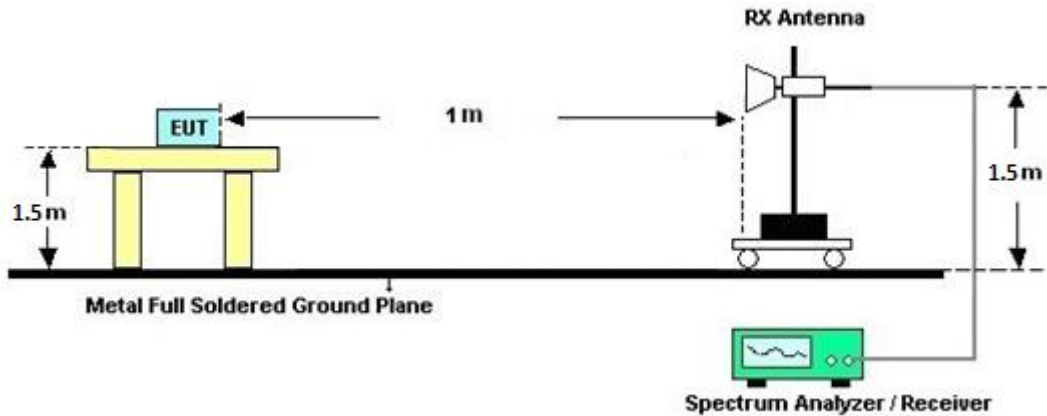
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.



3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

Frequency of emission (MHz)	Conducted limit (dBµV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

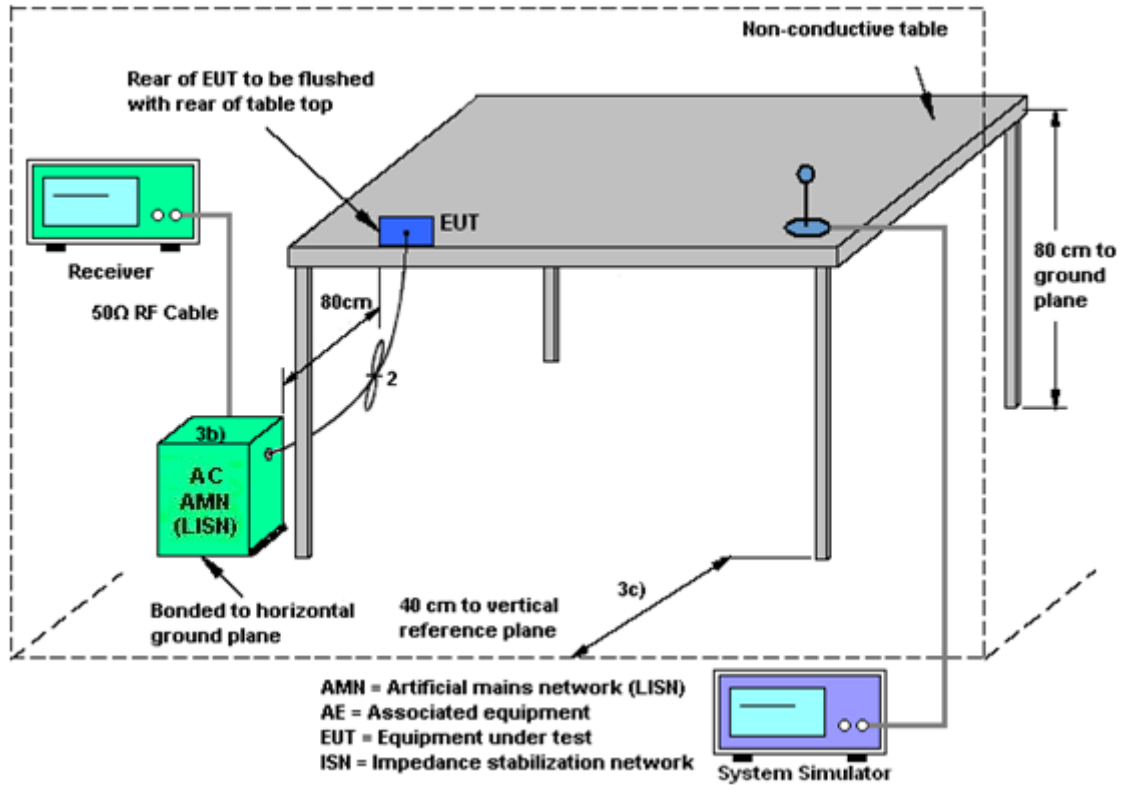
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



3.7 Antenna Requirements

3.7.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 14, 2021	Oct. 18, 2021~ Dec. 23, 2021	Oct. 13, 2022	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 07, 2021	Oct. 18, 2021~ Dec. 23, 2021	Jan. 06, 2022	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 07, 2021	Oct. 18, 2021~ Dec. 23, 2021	Jan. 06, 2022	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY564000 04	3Hz~8.5GHz;Max 30dBm	Oct. 16, 2021	Nov. 24, 2021	Oct. 15, 2022	Radiation (03CH05-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY551502 44	10Hz~44G,MAX 30dB	Apr.13, 2021	Nov. 24, 2021	Apr. 12, 2022	Radiation (03CH05-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Nov. 24, 2021	Oct. 29, 2022	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz~1GHz	Jun. 04 ,2021	Nov. 24, 2021	Jun. 03, 2022	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 24, 2021	Nov. 24, 2021	Apr. 23, 2022	Radiation (03CH05-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 06, 2021	Nov. 24, 2021	Jan. 05, 2022	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	187289	9KHz~1GHz	Apr. 12, 2021	Nov. 24, 2021	Apr. 11, 2022	Radiation (03CH05-KS)
Amplifier	MITEQ	EM18G40GG A	060728	18~40GHz	Jan. 07, 2021	Nov. 24, 2021	Jan. 06, 2022	Radiation (03CH05-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2012228	1Ghz~18Ghz	Oct. 16, 2021	Nov. 24, 2021	Oct. 15, 2022	Radiation (03CH05-KS)
Amplifier	Keysight	83017A	MY532703 16	500MHz~26.5GHz	Oct. 16, 2021	Nov. 24, 2021	Oct. 15, 2022	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	Nov. 24, 2021	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 24, 2021	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 24, 2021	NCR	Radiation (03CH05-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 21, 2021	Oct. 27, 2021	Apr. 20, 2022	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 14, 2021	Oct. 27, 2021	Oct. 13, 2022	Conduction (CO01-KS)
AC LISN	R&S	ENV216	100334	9kHz~30MHz	Oct. 14, 2021	Oct. 27, 2021	Oct. 13, 2022	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 14, 2021	Oct. 27, 2021	Oct. 13, 2022	Conduction (CO01-KS)

NCR: No Calibration Required.



5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.9dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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Appendix A. Conducted Test Results

Test Engineer:	Jack Fan	Temperature:	21~25	°C
Test Date:	2021/10/18~2021/12/23	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)		
11a	6Mbps	1	36	5180	16.68	21.68	-	22.22		
11a	6Mbps	1	44	5220	16.68	21.53	-	22.22		
11a	6Mbps	1	48	5240	16.68	21.93	-	22.22		
HT20	MCS0	1	36	5180	17.88	22.28	-	22.52		
HT20	MCS0	1	44	5220	17.88	22.98	-	22.52		
HT20	MCS0	1	48	5240	17.88	23.18	-	22.52		
HT40	MCS0	1	38	5190	36.56	41.36	-	23.01		
HT40	MCS0	1	46	5230	36.46	41.26	-	23.01		
VHT80	MCS0	1	42	5210	75.76	83.44	-	23.01		

TEST RESULTS DATA
Average Power Table

U-NII-1										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
11a	6Mbps	1	36	5180	-	12.74	24.00	-1.40		Pass
11a	6Mbps	1	44	5220	-	12.25	24.00	-1.40		Pass
11a	6Mbps	1	48	5240	-	12.18	24.00	-1.40		Pass
HT20	MCS0	1	36	5180	-	12.62	24.00	-1.40		Pass
HT20	MCS0	1	44	5220	-	12.16	24.00	-1.40		Pass
HT20	MCS0	1	48	5240	-	12.20	24.00	-1.40		Pass
HT40	MCS0	1	38	5190	0.16	13.07	24.00	-1.40		Pass
HT40	MCS0	1	46	5230	0.16	12.62	24.00	-1.40		Pass
VHT20	MCS0	1	36	5180	-	12.55	24.00	-1.40		Pass
VHT20	MCS0	1	44	5220	-	12.16	24.00	-1.40		Pass
VHT20	MCS0	1	48	5240	-	12.22	24.00	-1.40		Pass
VHT40	MCS0	1	38	5190	0.16	13.07	24.00	-1.40		Pass
VHT40	MCS0	1	46	5230	0.16	12.54	24.00	-1.40		Pass
VHT80	MCS0	1	42	5210	0.31	12.09	24.00	-1.40		Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-1										
Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	-	Pass/Fail
11a	6Mbps	1	36	5180	-	1.77	11.00	-1.40		Pass
11a	6Mbps	1	44	5220	-	1.26	11.00	-1.40		Pass
11a	6Mbps	1	48	5240	-	1.37	11.00	-1.40		Pass
HT20	MCS0	1	36	5180	-	1.40	11.00	-1.40		Pass
HT20	MCS0	1	44	5220	-	0.98	11.00	-1.40		Pass
HT20	MCS0	1	48	5240	-	0.99	11.00	-1.40		Pass
HT40	MCS0	1	38	5190	0.16	-1.07	11.00	-1.40		Pass
HT40	MCS0	1	46	5230	0.16	-1.54	11.00	-1.40		Pass
VHT80	MCS0	1	42	5210	0.31	-5.13	11.00	-1.40		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A										
Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6M bps	1	52	5260	16.68	21.58	23.22	29.22	23.98	
11a	6M bps	1	60	5300	16.68	21.68	23.22	29.22	23.98	
11a	6M bps	1	64	5320	16.68	22.38	23.22	29.22	23.98	
HT20	MCS 0	1	52	5260	17.88	22.83	23.52	29.52	23.98	
HT20	MCS 0	1	60	5300	17.88	22.83	23.52	29.52	23.98	
HT20	MCS 0	1	64	5320	17.88	22.93	23.52	29.52	23.98	
HT40	MCS 0	1	54	5270	36.66	41.36	23.98	30.00	23.98	
HT40	MCS 0	1	62	5310	36.56	41.18	23.98	30.00	23.98	
VHT80	MCS 0	1	58	5290	75.76	83.28	23.98	30.00	23.98	

TEST RESULTS DATA
Average Power Table

U-NII-2A										
Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	52	5260	-	12.26	23.98	-1.20	26.99	Pass
11a	6M bps	1	60	5300	-	12.46	23.98	-1.20	26.99	Pass
11a	6M bps	1	64	5320	-	12.28	23.98	-1.20	26.99	Pass
HT20	MCS 0	1	52	5260	-	12.27	23.98	-1.20	26.99	Pass
HT20	MCS 0	1	60	5300	-	12.22	23.98	-1.20	26.99	Pass
HT20	MCS 0	1	64	5320	-	12.11	23.98	-1.20	26.99	Pass
HT40	MCS 0	1	54	5270	0.16	12.55	23.98	-1.20	26.99	Pass
HT40	MCS 0	1	62	5310	0.16	12.64	23.98	-1.20	26.99	Pass
VHT20	MCS 0	1	52	5260	-	12.20	23.98	-1.20	26.99	Pass
VHT20	MCS 0	1	60	5300	-	12.23	23.98	-1.20	26.99	Pass
VHT20	MCS 0	1	64	5320	-	12.12	23.98	-1.20	26.99	Pass
VHT40	MCS 0	1	54	5270	0.16	12.41	23.98	-1.20	26.99	Pass
VHT40	MCS 0	1	62	5310	0.16	12.10	23.98	-1.20	26.99	Pass
VHT80	MCS 0	1	58	5290	0.31	12.04	23.98	-1.20	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
11a	6M bps	1	52	5260	-	1.15	11.00	-1.20		Pass
11a	6M bps	1	60	5300	-	1.31	11.00	-1.20		Pass
11a	6M bps	1	64	5320	-	0.82	11.00	-1.20		Pass
HT20	MCS 0	1	52	5260	-	0.77	11.00	-1.20		Pass
HT20	MCS 0	1	60	5300	-	0.72	11.00	-1.20		Pass
HT20	MCS 0	1	64	5320	-	0.36	11.00	-1.20		Pass
HT40	MCS 0	1	54	5270	0.16	-1.84	11.00	-1.20		Pass
HT40	MCS 0	1	62	5310	0.16	-1.94	11.00	-1.20		Pass
VHT80	MCS 0	1	58	5290	0.31	-4.88	11.00	-1.20		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6M bps	1	100	5500	16.73	22.33	23.24	29.24	23.98	
11a	6M bps	1	116	5580	16.73	22.13	23.24	29.24	23.98	
11a	6M bps	1	140	5700	16.68	21.53	23.22	29.22	23.98	
11a	6Mbps	1	144	5720	16.73	22.43	23.24	29.24	23.98	
HT20	MCS 0	1	100	5500	17.88	22.93	23.52	29.52	23.98	
HT20	MCS 0	1	116	5580	17.88	22.78	23.52	29.52	23.98	
HT20	MCS 0	1	140	5700	17.88	22.73	23.52	29.52	23.98	
HT20	MCS0	1	144	5720	17.88	22.93	23.52	29.52	23.98	
HT40	MCS 0	1	102	5510	36.66	41.36	23.98	30.00	23.98	
HT40	MCS 0	1	110	5550	36.56	41.54	23.98	30.00	23.98	
HT40	MCS 0	1	134	5670	36.56	41.36	23.98	30.00	23.98	
HT40	MCS0	1	142	5710	36.56	41.36	23.98	30.00	23.98	
VHT80	MCS 0	1	106	5530	75.64	83.44	23.98	30.00	23.98	
VHT80	MCS 0	1	122	5610	75.64	83.76	23.98	30.00	23.98	
VHT80	MCS0	1	138	5690	75.76	83.28	23.98	30.00	23.98	

TEST RESULTS DATA
Average Power Table

U-NII-2C										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	100	5500	-	12.40	23.98	-1.00	26.99	Pass
11a	6M bps	1	116	5580	-	12.58	23.98	-1.00	26.99	Pass
11a	6M bps	1	140	5700	-	12.71	23.98	-1.00	26.99	Pass
11a	6Mbps	1	144	5720	-	12.83	23.98	-1.00	26.99	Pass
HT20	MCS 0	1	100	5500	-	12.18	23.98	-1.00	26.99	Pass
HT20	MCS 0	1	116	5580	-	12.46	23.98	-1.00	26.99	Pass
HT20	MCS 0	1	140	5700	-	12.71	23.98	-1.00	26.99	Pass
HT20	MCS0	1	144	5720	-	12.58	23.98	-1.00	26.99	Pass
HT40	MCS 0	1	102	5510	0.16	12.41	23.98	-1.00	26.99	Pass
HT40	MCS 0	1	110	5550	0.16	12.88	23.98	-1.00	26.99	Pass
HT40	MCS 0	1	134	5670	0.16	13.18	23.98	-1.00	26.99	Pass
HT40	MCS0	1	142	5710	0.16	13.06	23.98	-1.00	26.99	Pass
VHT20	MCS 0	1	100	5500	-	12.09	23.98	-1.00	26.99	Pass
VHT20	MCS 0	1	116	5580	-	12.69	23.98	-1.00	26.99	Pass
VHT20	MCS 0	1	140	5700	-	12.68	23.98	-1.00	26.99	Pass
VHT20	MCS0	1	144	5720	-	12.63	23.98	-1.00	26.99	Pass
VHT40	MCS 0	1	102	5510	0.16	12.74	23.98	-1.00	26.99	Pass
VHT40	MCS 0	1	110	5550	0.16	12.44	23.98	-1.00	26.99	Pass
VHT40	MCS 0	1	134	5670	0.16	12.97	23.98	-1.00	26.99	Pass
VHT40	MCS0	1	142	5710	0.16	13.01	23.98	-1.00	26.99	Pass
VHT80	MCS 0	1	106	5530	0.31	12.22	23.98	-1.00	26.99	Pass
VHT80	MCS 0	1	122	5610	0.31	12.39	23.98	-1.00	26.99	Pass
VHT80	MCS0	1	138	5690	0.31	12.44	23.98	-1.00	26.99	Pass

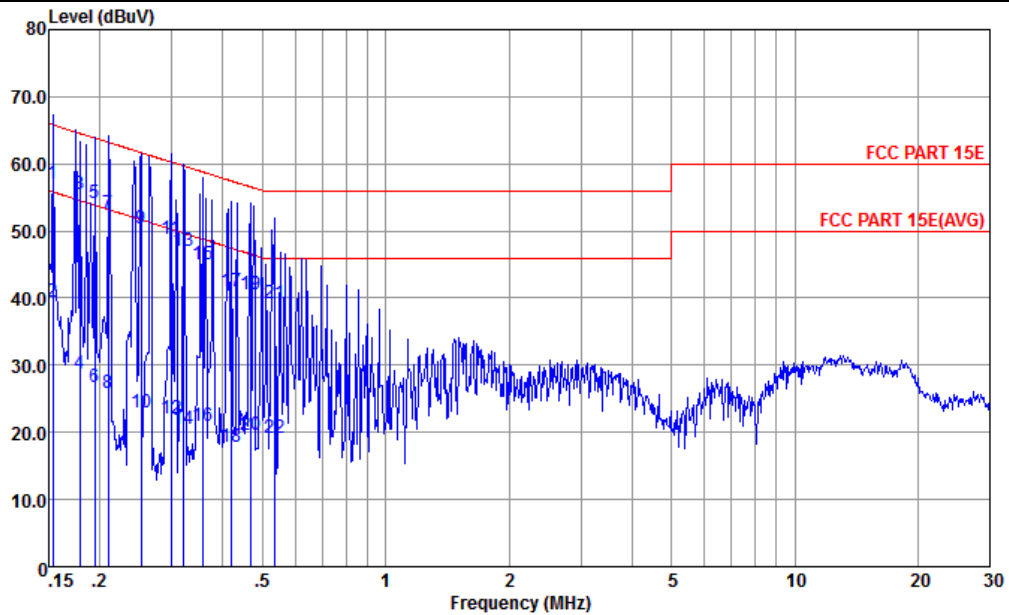
TEST RESULTS DATA
Power Spectral Density

U-NII-2C										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
11a	6M bps	1	100	5500	-	1.25	11.00	-1.00		Pass
11a	6M bps	1	116	5580	-	1.25	11.00	-1.00		Pass
11a	6M bps	1	140	5700	-	1.52	11.00	-1.00		Pass
11a	6Mbps	1	144	5720	-	1.81	11.00	-1.00		Pass
HT20	MCS 0	1	100	5500	-	0.85	11.00	-1.00		Pass
HT20	MCS 0	1	116	5580	-	0.89	11.00	-1.00		Pass
HT20	MCS 0	1	140	5700	-	1.24	11.00	-1.00		Pass
HT20	MCS0	1	144	5720	-	1.28	11.00	-1.00		Pass
HT40	MCS 0	1	102	5510	0.16	-1.70	11.00	-1.00		Pass
HT40	MCS 0	1	110	5550	0.16	-1.89	11.00	-1.00		Pass
HT40	MCS 0	1	134	5670	0.16	-1.22	11.00	-1.00		Pass
HT40	MCS0	1	142	5710	0.16	-1.20	11.00	-1.00		Pass
VHT80	MCS 0	1	106	5530	0.31	-4.70	11.00	-1.00		Pass
VHT80	MCS 0	1	122	5610	0.31	-4.86	11.00	-1.00		Pass
VHT80	MCS0	1	138	5690	0.31	-4.45	11.00	-1.00		Pass



Appendix B. AC Conducted Emission Test Results

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

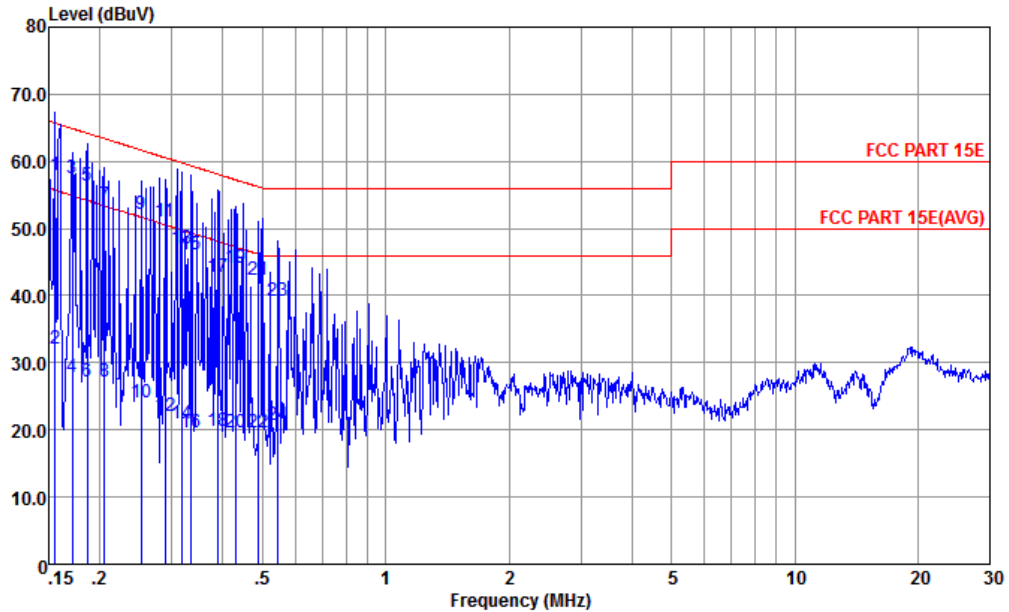


Site : CO01-KS
 Condition : FCC PART 15E LISN-L-060105-CN02 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.153	57.14	-8.68	65.82	46.60	0.07	10.47	QP
2	0.153	39.34	-16.48	55.82	28.80	0.07	10.47	Average
3	0.179	55.39	-9.16	64.55	44.90	0.08	10.41	QP
4	0.179	28.69	-25.86	54.55	18.20	0.08	10.41	Average
5	0.194	54.26	-9.58	63.84	43.80	0.09	10.37	QP
6	0.194	26.76	-27.08	53.84	16.30	0.09	10.37	Average
7	0.209	52.55	-10.68	63.23	42.10	0.09	10.36	QP
8	0.209	25.95	-27.28	53.23	15.50	0.09	10.36	Average
9	0.252	50.33	-11.36	61.69	39.90	0.10	10.33	QP
10	0.252	22.93	-28.76	51.69	12.50	0.10	10.33	Average
11	0.299	48.91	-11.37	60.28	38.49	0.11	10.31	QP
12	0.299	22.01	-28.27	50.28	11.59	0.11	10.31	Average
13	0.320	47.01	-12.70	59.71	36.60	0.11	10.30	QP
14	0.320	20.61	-29.10	49.71	10.20	0.11	10.30	Average
15	0.356	45.00	-13.83	58.83	34.61	0.11	10.28	QP
16	0.356	21.00	-27.83	48.83	10.61	0.11	10.28	Average
17	0.419	40.98	-16.48	57.46	30.60	0.12	10.26	QP
18	0.419	17.88	-29.58	47.46	7.50	0.12	10.26	Average
19	0.466	40.57	-16.01	56.58	30.20	0.13	10.24	QP
20	0.466	19.57	-27.01	46.58	9.20	0.13	10.24	Average
21	0.535	39.17	-16.83	56.00	28.79	0.14	10.24	QP
22	0.535	19.17	-26.83	46.00	8.79	0.14	10.24	Average



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



Site : CO01-KS
 Condition : FCC PART 15E LISN-N-060105-CN02 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.156	58.02	-7.67	65.69	47.40	0.15	10.47	QP
2	0.156	32.12	-23.57	55.69	21.50	0.15	10.47	Average
3 *	0.171	57.38	-7.52	64.90	46.79	0.16	10.43	QP
4	0.171	27.78	-27.12	54.90	17.19	0.16	10.43	Average
5	0.186	56.35	-7.85	64.20	45.80	0.16	10.39	QP
6	0.186	27.15	-27.05	54.20	16.60	0.16	10.39	Average
7	0.205	53.43	-9.97	63.40	42.90	0.17	10.36	QP
8	0.205	27.13	-26.27	53.40	16.60	0.17	10.36	Average
9	0.252	52.11	-9.58	61.69	41.60	0.18	10.33	QP
10	0.252	24.01	-27.68	51.69	13.50	0.18	10.33	Average
11	0.289	51.10	-9.44	60.54	40.60	0.19	10.31	QP
12	0.289	22.10	-28.44	50.54	11.60	0.19	10.31	Average
13	0.317	47.10	-12.70	59.80	36.60	0.20	10.30	QP
14	0.317	21.00	-28.80	49.80	10.50	0.20	10.30	Average
15	0.334	46.09	-13.26	59.35	35.60	0.20	10.29	QP
16	0.334	19.69	-29.66	49.35	9.20	0.20	10.29	Average
17	0.389	42.68	-15.40	58.08	32.20	0.21	10.27	QP
18	0.389	19.78	-28.30	48.08	9.30	0.21	10.27	Average
19	0.428	44.08	-13.21	57.29	33.60	0.22	10.26	QP
20	0.428	19.68	-27.61	47.29	9.20	0.22	10.26	Average
21	0.489	42.27	-13.92	56.19	31.80	0.23	10.24	QP
22	0.489	19.67	-26.52	46.19	9.20	0.23	10.24	Average
23	0.546	39.27	-16.73	56.00	28.79	0.24	10.24	QP
24	0.546	20.77	-25.23	46.00	10.29	0.24	10.24	Average

Note:

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



Appendix C. Radiated Spurious Emission

Test Engineer :	Henry Li	Temperature :	27~30°C
		Relative Humidity :	41~45%

UNII 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		5105.12	55.27	-18.73	74	43.39	34.98	11.54	34.64	112	12	P	H
		5148	44.35	-9.65	54	32.16	35.03	11.6	34.44	112	12	A	H
	*	5176	97.74	-	-	85.38	35.06	11.63	34.33	112	12	P	H
		5176	90.6	-	-	78.24	35.06	11.63	34.33	112	12	A	H
		5148.48	54.98	-19.02	74	42.79	35.03	11.6	34.44	103	67	P	V
		5111.68	44.19	-9.81	54	32.27	35	11.56	34.64	103	67	A	V
	*	5182	93.92	-	-	81.56	35.06	11.63	34.33	103	67	P	V
		5182	87.24	-	-	74.88	35.06	11.63	34.33	103	67	A	V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



UNII 1 5150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10358.36	46.62	-21.68	68.3	52.05	38.32	16.93	60.68	300	0	P	H
		10358.36	44.53	-23.77	68.3	49.96	38.32	16.93	60.68	300	0	P	V
802.11a CH 44 5220MHz		10438.44	45.13	-23.17	68.3	50.41	38.35	17.03	60.66	300	0	P	H
		10438.44	44.49	-23.81	68.3	49.77	38.35	17.03	60.66	300	0	P	V
802.11a CH 48 5240MHz		10478.47	45.85	-22.45	68.3	51.05	38.36	17.09	60.65	300	0	P	H
		10478.47	44.37	-23.93	68.3	49.57	38.36	17.09	60.65	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		5144.8	58.19	-15.81	74	46	35.03	11.6	34.44	247	12	P	H
		5149.92	44.48	-9.52	54	32.29	35.03	11.6	34.44	247	12	A	H
	*	5176	98.41	-	-	86.05	35.06	11.63	34.33	247	12	P	H
		5176	90.78	-	-	78.42	35.06	11.63	34.33	247	12	A	H
		5146.88	54.12	-19.88	74	41.93	35.03	11.6	34.44	243	267	P	V
		5103.04	44.14	-9.86	54	32.26	34.98	11.54	34.64	243	267	A	V
	*	5182	94.38	-	-	82.02	35.06	11.63	34.33	243	267	P	V
		5182	87.16	-	-	74.8	35.06	11.63	34.33	243	267	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11n HT20 channels 36, 44, and 48 at various frequencies.



**UNII 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5145.92	55.73	-18.27	74	43.54	35.03	11.6	34.44	100	61	P	H
		5149.76	46.51	-7.49	54	34.32	35.03	11.6	34.44	100	61	A	H
	*	5194	95.24	-	-	82.74	35.08	11.65	34.23	100	61	P	H
		5194	87.44	-	-	74.94	35.08	11.65	34.23	100	61	A	H
		5358.6	55.24	-18.76	74	41.85	35.22	11.8	33.63	100	61	P	H
		5397.3	45.18	-8.82	54	31.58	35.27	11.86	33.53	100	61	A	H
		5148	54.85	-19.15	74	42.66	35.03	11.6	34.44	199	63	P	V
		5145.92	45.29	-8.71	54	33.1	35.03	11.6	34.44	199	63	A	V
	*	5194	92.33	-	-	79.83	35.08	11.65	34.23	199	63	P	V
		5194	84.6	-	-	72.1	35.08	11.65	34.23	199	63	A	V
		5377.5	55.38	-18.62	74	41.81	35.26	11.84	33.53	199	63	P	V
		5385.06	45.06	-8.94	54	31.49	35.26	11.84	33.53	199	63	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 1 5150~5250MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11n HT40 CH 38 (5190MHz) and CH 46 (5230MHz), and a Remark section.



UNII 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5145.92	56.43	-17.57	74	44.24	35.03	11.6	34.44	101	65	P	H
		5149.76	47.65	-6.35	54	35.46	35.03	11.6	34.44	101	65	A	H
	*	5218	92.5	-	-	79.97	35.09	11.67	34.23	101	65	P	H
		5218	84.76	-	-	72.23	35.09	11.67	34.23	101	65	A	H
		5396.76	54.36	-19.64	74	40.76	35.27	11.86	33.53	101	65	P	H
		5391.36	45.17	-8.83	54	31.6	35.26	11.84	33.53	101	65	A	H
		5118.24	55.66	-18.34	74	43.64	35	11.56	34.54	309	281	P	V
		5148.32	46.62	-7.38	54	34.43	35.03	11.6	34.44	309	281	A	V
	*	5218	92.72	-	-	80.19	35.09	11.67	34.23	309	281	P	V
		5218	84.98	-	-	72.45	35.09	11.67	34.23	309	281	A	V
	5372.64	54.71	-19.29	74	41.28	35.24	11.82	33.63	309	281	P	V	
	5398.56	45.41	-8.59	54	31.81	35.27	11.86	33.53	309	281	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		10418.42	45.04	-23.26	68.3	50.36	38.34	17.01	60.67	300	0	P	H
		10418.42	44.7	-23.6	68.3	50.02	38.34	17.01	60.67	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2A - 5250~5350MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 64 5320MHz		5357.7	61.82	-12.18	74	48.43	35.22	11.8	33.63	169	305	P	H
		5375.1	45.55	-8.45	54	32.02	35.24	11.82	33.53	169	305	A	H
	*	5320	101.33	-	-	88.2	35.19	11.77	33.83	169	305	P	H
		5320	93.86	-	-	80.73	35.19	11.77	33.83	169	305	A	H
		5389.8	54.89	-19.11	74	41.32	35.26	11.84	33.53	100	71	P	V
		5398.8	44.55	-9.45	54	30.95	35.27	11.86	33.53	100	71	A	V
	*	5320	94.9	-	-	81.77	35.19	11.77	33.83	100	71	P	V
		5320	87.06	-	-	73.93	35.19	11.77	33.83	100	71	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII 2A 5250~5350MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10518.52	45.19	-23.11	68.3	50.35	38.37	17.12	60.65	300	0	P	H
		10518.52	45.19	-23.11	68.3	50.35	38.37	17.12	60.65	300	0	P	V
802.11a CH 60 5300MHz		10600.01	45.71	-28.29	74	50.77	38.4	17.17	60.63	300	0	P	H
		10600.01	44.36	-29.64	74	49.42	38.4	17.17	60.63	300	0	P	V
802.11a CH 64 5320MHz		10638.63	44.59	-29.41	74	49.6	38.41	17.2	60.62	300	0	P	H
		10638.63	45.49	-28.51	74	50.5	38.41	17.2	60.62	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2A 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11n HT20 CH 64 5320MHz and a Remark section.



UNII 2A 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for channels 52, 60, and 64 at various frequencies.



UNII 2A 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11n HT40 CH 62 5310MHz and a Remark section.



UNII 2A 5250~5350MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11n HT40 CH 54 at 10538.54 MHz and CH 62 at 10618.62 MHz.



UNII 2A 5250~5350MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11ac VHT80 CH 58 5290MHz and a Remark section.



UNII 2A 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80		10578.58	44.38	-23.92	68.3	49.47	38.39	17.15	60.63	300	0	P	H
CH 58 5290MHz		10578.58	44.61	-23.69	68.3	49.7	38.39	17.15	60.63	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C - 5470~5725MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		5454.64	57.32	-16.68	74	43.32	35.32	11.91	33.23	170	305	P	H
		5469.04	56.67	-11.63	68.3	42.63	35.34	11.93	33.23	170	305	P	H
		5458	46.36	-7.64	54	32.36	35.32	11.91	33.23	170	305	A	H
	*	5500	100.95	-	-	86.74	35.37	11.96	33.12	170	305	P	H
		5500	93.48	-	-	79.27	35.37	11.96	33.12	170	305	A	H
		5437.52	55.74	-18.26	74	41.87	35.31	11.89	33.33	257	286	P	V
		5460.56	56.14	-12.16	68.3	42.14	35.32	11.91	33.23	257	286	P	V
		5456.72	45.74	-8.26	54	31.74	35.32	11.91	33.23	257	286	A	V
	*	5500	98.83	-	-	84.62	35.37	11.96	33.12	257	286	P	V
		5500	91.37	-	-	77.16	35.37	11.96	33.12	257	286	A	V
802.11a CH 140 5700MHz		5725.88	63.92	-4.38	68.3	48.98	35.65	12.15	32.86	179	300	P	H
	*	5698	103.2	-	-	88.24	35.59	12.12	32.75	179	300	P	H
		5698	95.33	-	-	80.37	35.59	12.12	32.75	179	300	A	H
		5735.4	61.27	-7.03	68.3	46.29	35.68	12.16	32.86	254	280	P	V
	*	5704	100.85	-	-	85.85	35.62	12.13	32.75	254	280	P	V
	5704	93.46	-	-	78.46	35.62	12.13	32.75	254	280	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C - 5470~5725MHz
WIFI 802.11a (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include channels 100, 116, and 140 at various frequencies.

Remark
1. No other spurious found.
2. All results are PASS against Peak and Average limit line.



**UNII 2C - 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		5455.76	56.28	-17.72	74	42.28	35.32	11.91	33.23	169	305	P	H
		5465.68	57.48	-10.82	68.3	43.44	35.34	11.93	33.23	169	305	P	H
		5457.84	46.3	-7.7	54	32.3	35.32	11.91	33.23	169	305	A	H
	*	5500	101.22	-	-	87.01	35.37	11.96	33.12	169	305	P	H
		5500	92.67	-	-	78.46	35.37	11.96	33.12	169	305	A	H
		5460	55.74	-18.26	74	41.74	35.32	11.91	33.23	284	261	P	V
		5469.68	55.99	-12.31	68.3	41.95	35.34	11.93	33.23	284	261	P	V
		5457.52	45.87	-8.13	54	31.87	35.32	11.91	33.23	284	261	A	V
	*	5500	97.73	-	-	83.52	35.37	11.96	33.12	284	261	P	V
	5500	90.31	-	-	76.1	35.37	11.96	33.12	284	261	A	V	
802.11n HT20 CH 140 5700MHz		5727.8	64.24	-4.06	68.3	49.3	35.65	12.15	32.86	178	301	P	H
	*	5698	102.06	-	-	87.1	35.59	12.12	32.75	178	301	P	H
		5698	95.14	-	-	80.18	35.59	12.12	32.75	178	301	A	H
		5725.64	62.28	-6.02	68.3	47.34	35.65	12.15	32.86	277	276	P	V
	*	5698	100.56	-	-	85.6	35.59	12.12	32.75	277	276	P	V
	5698	92.5	-	-	77.54	35.59	12.12	32.75	277	276	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C - 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for channels 100, 116, and 140 at various frequencies.



UNII 2C - 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		5454.32	58.99	-15.01	74	44.99	35.32	11.91	33.23	168	309	P	H
		5468.56	57.43	-10.87	68.3	43.39	35.34	11.93	33.23	168	309	P	H
		5459.6	47.49	-6.51	54	33.49	35.32	11.91	33.23	168	309	A	H
	*	5506	98.51	-	-	84.2	35.37	11.96	33.02	168	309	P	H
		5506	90.86	-	-	76.55	35.37	11.96	33.02	168	309	A	H
		5763.72	56	-12.3	68.3	41.07	35.72	12.18	32.97	168	309	P	H
		5434.64	56.49	-17.51	74	42.62	35.31	11.89	33.33	185	249	P	V
		5469.52	57.52	-10.78	68.3	43.48	35.34	11.93	33.23	185	249	P	V
		5458	47.16	-6.84	54	33.16	35.32	11.91	33.23	185	249	A	V
	*	5512	97.92	-	-	83.61	35.37	11.96	33.02	185	249	P	V
		5512	89.53	-	-	75.22	35.37	11.96	33.02	185	249	A	V
		5754.12	56.47	-11.83	68.3	41.54	35.72	12.18	32.97	185	249	P	V
802.11n HT40 CH 134 5670MHz		5446.16	55.32	-18.68	74	41.42	35.32	11.91	33.33	246	303	P	H
		5466.16	55.28	-13.02	68.3	41.24	35.34	11.93	33.23	246	303	P	H
		5458.96	46	-8	54	32	35.32	11.91	33.23	246	303	A	H
	*	5674	100.31	-	-	85.28	35.56	12.1	32.63	246	303	P	H
		5674	91.63	-	-	76.6	35.56	12.1	32.63	246	303	A	H
		5734.92	58.69	-9.61	68.3	43.71	35.68	12.16	32.86	246	303	P	H
		5441.52	55.25	-18.75	74	41.38	35.31	11.89	33.33	278	270	P	V
		5461.36	55.24	-13.06	68.3	41.24	35.32	11.91	33.23	278	270	P	V
		5453.2	45.92	-8.08	54	31.92	35.32	11.91	33.23	278	270	A	V
	*	5674	100.54	-	-	85.51	35.56	12.1	32.63	278	270	P	V
	5674	92.28	-	-	77.25	35.56	12.1	32.63	278	270	A	V	
	5731	58.78	-9.52	68.3	43.84	35.65	12.15	32.86	278	270	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C - 5470~5725MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for channels 102, 110, and 134.



UNII 2C - 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		5456.72	60.77	-13.23	74	46.77	35.32	11.91	33.23	160	306	P	H
		5463.44	61.08	-7.22	68.3	47.04	35.34	11.93	33.23	160	306	P	H
		5458.64	50.22	-3.78	54	36.22	35.32	11.91	33.23	160	306	A	H
	*	5536	95.96	-	-	81.49	35.4	11.99	32.92	160	306	P	H
		5536	88.49	-	-	74.02	35.4	11.99	32.92	160	306	A	H
		5726.44	56.14	-12.16	68.3	41.2	35.65	12.15	32.86	160	306	P	H
		5458.8	58.48	-15.52	74	44.48	35.32	11.91	33.23	306	284	P	V
		5468.72	60.1	-8.2	68.3	46.06	35.34	11.93	33.23	306	284	P	V
		5459.44	48.49	-5.51	54	34.49	35.32	11.91	33.23	306	284	A	V
	*	5524	94.18	-	-	79.84	35.39	11.97	33.02	306	284	P	V
		5524	86.3	-	-	71.96	35.39	11.97	33.02	306	284	A	V
		5750.68	56.22	-12.08	68.3	41.35	35.68	12.16	32.97	306	284	P	V
802.11ac VHT80 CH 122 5610MHz		5444.72	56.68	-17.32	74	42.81	35.31	11.89	33.33	166	310	P	H
		5469.68	54.46	-13.84	68.3	40.42	35.34	11.93	33.23	166	310	P	H
		5439.28	46.42	-7.58	54	32.55	35.31	11.89	33.33	166	310	A	H
	*	5590	94.83	-	-	80.07	35.45	12.03	32.72	166	310	P	H
		5590	87.39	-	-	72.63	35.45	12.03	32.72	166	310	A	H
		5729.24	56.27	-12.03	68.3	41.33	35.65	12.15	32.86	166	310	P	H
		5388.56	54.86	-19.14	74	41.29	35.26	11.84	33.53	317	266	P	V
		5460.72	55.05	-13.25	68.3	41.05	35.32	11.91	33.23	317	266	P	V
		5455.12	46.38	-7.62	54	32.38	35.32	11.91	33.23	317	266	A	V
	*	5614	93.35	-	-	78.45	35.47	12.05	32.62	317	266	P	V
	5614	85.41	-	-	70.51	35.47	12.05	32.62	317	266	A	V	
	5735.08	56.5	-11.8	68.3	41.52	35.68	12.16	32.86	317	266	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C 5470~5725MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		11059.05	45.09	-28.91	74	49.62	38.55	17.45	60.53	300	0	P	H
		11059.05	44.73	-29.27	74	49.26	38.55	17.45	60.53	300	0	P	V
802.11ac VHT80 CH 122 5610MHz		11219.21	45.24	-28.76	74	49.62	38.6	17.51	60.49	300	0	P	H
		11219.21	45.12	-28.88	74	49.5	38.6	17.51	60.49	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII 2C - Straddle Channel
WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz	*	5722	103.54	-	-	88.6	35.65	12.15	32.86	400	0	P	H
		5722	96.24	-	-	81.3	35.65	12.15	32.86	400	0	A	H
	*	5722	102.76	-	-	87.82	35.65	12.15	32.86	100	0	P	V
		5722	95.14	-	-	80.2	35.65	12.15	32.86	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 2C - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		11439.44	46.01	-27.99	74	50.17	38.68	17.6	60.44	300	0	P	H
		11439.44	45.71	-28.29	74	49.87	38.68	17.6	60.44	300	0	P	V
Remark 1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													

UNII 2C - Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz	*	5722	102.87	-	-	87.93	35.65	12.15	32.86	400	0	P	H
		5722	95.82	-	-	80.88	35.65	12.15	32.86	400	0	A	H
	*	5722	101.81	-	-	86.87	35.65	12.15	32.86	100	0	P	V
		5722	94.49	-	-	79.55	35.65	12.15	32.86	100	0	A	V
Remark 1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



UNII 2C - Straddle Channel
WIFI 802.11n HT20 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include 802.11n HT20 CH 144 5720MHz and a Remark section.

UNII 2C - Straddle Channel
WIFI 802.11n HT40 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include 802.11n HT40 CH 142 5710MHz and a Remark section.



UNII 2C - Straddle Channel
WIFI 802.11ac VHT80 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include 802.11 VHT80 and CH 138 5690MHz.

UNII 2C - Straddle Channel
WIFI 802.11ac VHT80 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include 802.11 VHT80 and CH 138 5690MHz.



Emission below 1GHz
5GHz WIFI 802.11ac80 (LF)

Table with 14 columns: WIFI, Note, Frequency, Level, Over, Limit, Read, Antenna, Path, Preamp, Ant, Table, Peak, Pol. It contains 11 rows of test data for 5GHz WIFI 802.11ac VHT80 LF and a Remark section at the bottom.



Co-location mode:

GSM1900 Link + WLAN 5GHz Link (802.11a ac VHT80 Ch.106) + BT Link (BLE 5.0 Ch.39)
(Band Edge @ 3m)

Table with 14 columns: BLE, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for BLE CH 39 2480MHz.

Remark
1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

GSM1900 Link + WLAN 5GHz Link (802.11a ac VHT80 Ch.106) + BT Link (BLE 5.0 Ch.39)
(Harmonic @ 3m)

Table with 14 columns: BLE, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for BLE CH 39 2480MHz.

Remark
1. No other spurious found.
2. All results are PASS against Peak and Average limit line.



**GSM1900 Link + WLAN 5GHz Link (802.11a ac VHT80 Ch.106) + BT Link (BLE 5.0 Ch.39)
(Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		5459.92	58.88	-15.12	74	44.88	35.32	11.91	33.23	100	294	P	H
		5464.08	60.35	-7.95	68.3	46.31	35.34	11.93	33.23	100	294	P	H
		5459.6	50.24	-3.76	54	36.24	35.32	11.91	33.23	100	294	A	H
	*	5524	91.32	-	-	76.98	35.39	11.97	33.02	100	294	P	H
		5524	82.8	-	-	68.46	35.39	11.97	33.02	100	294	A	H
		5759.32	56.84	-11.46	68.3	41.91	35.72	12.18	32.97	100	294	P	H
		5457.04	58.45	-15.55	74	44.45	35.32	11.91	33.23	295	262	P	V
		5465.84	58.93	-9.37	68.3	44.89	35.34	11.93	33.23	295	262	P	V
		5460	49.82	-4.18	54	35.82	35.32	11.91	33.23	295	262	A	V
	*	5518	90.79	-	-	76.45	35.39	11.97	33.02	295	262	P	V
		5518	82.44	-	-	68.1	35.39	11.97	33.02	295	262	A	V
	5744.36	56.88	-11.42	68.3	42.01	35.68	12.16	32.97	295	262	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**GSM1900 Link + WLAN 5GHz Link (802.11a ac VHT80 Ch.106) + BT Link (BLE 5.0 Ch.39)
(Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		11059.05	45.94	-28.06	74	50.47	38.55	17.45	60.53	300	0	P	H
		11059.05	44.4	-29.6	74	48.93	38.55	17.45	60.53	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



GSM1900 Link + WLAN 5GHz Link (802.11a ac VHT80 Ch.106) + BT Link (BLE 5.0 Ch.39)

Emission below 1GHz

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
LF		44.55	26.28	-13.72	40	40.37	16.77	0.8	31.66	-	-	P	H
		92.08	21.66	-21.84	43.5	36.19	15.86	1.51	31.9	-	-	P	H
		169.68	27.61	-15.89	43.5	40.69	16.15	2.1	31.33	-	-	P	H
		219.15	22.94	-23.06	46	35.25	16.65	2.39	31.35	-	-	P	H
		262.8	24.33	-21.67	46	34.4	18.74	2.62	31.43	-	-	P	H
		617.82	26.24	-19.76	46	28.3	25.17	4.05	31.28	-	-	P	H
		44.55	28.95	-11.05	40	42.51	17.3	0.8	31.66	-	-	P	V
		91.11	22.44	-21.06	43.5	36.62	16.21	1.5	31.89	-	-	P	V
		120.21	18.71	-24.79	43.5	30.71	17.86	1.78	31.64	-	-	P	V
		168.71	23.66	-19.84	43.5	35.85	17.05	2.09	31.33	-	-	P	V
		456.8	26.02	-19.98	46	30.1	23.72	3.47	31.27	-	-	P	V
	648.86	26.95	-19.05	46	28.23	25.89	4.15	31.32	-	-	P	V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
	Test result is over limit line.
P/A	P eak or A verage
H/V	H orizontal or V ertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix D. Radiated Spurious Emission

Test Engineer :	Henry Li	Temperature :	27~30°C
		Relative Humidity :	41~45%

Note symbol

-L	Low channel location
-R	High channel location



UNII 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	UNII 1 5150~5250MHz Band Edge @ 3m																																																																																														
ANT	802.11a CH36 5180MHz																																																																																														
1	Horizontal	Fundamental																																																																																													
Peak	<p>Site Condition : 03C805-R5 : 5G BAND 1-----3 3m 3117 00218652 HORIZONTAL : REF: 1000.000MHz FEM 3000.000dB SWT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>cm</th> <th>deg</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5189.12</td> <td>55.27</td> <td>-18.73</td> <td>74.00</td> <td>43.39</td> <td>34.90</td> <td>11.54</td> <td>34.64</td> <td>112</td> <td>12</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Line	Level	Factor	Loss	Factor	cm	deg	MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	cm	deg	1	5189.12	55.27	-18.73	74.00	43.39	34.90	11.54	34.64	112	12	Peak	HORIZONTAL	<p>Site Condition : 03C805-R5 : 5G BAND 1-----3 3m 3117 00218652 HORIZONTAL : REF: 1000.000MHz FEM 3000.000dB SWT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>cm</th> <th>deg</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5176.00</td> <td>97.74</td> <td>29.44</td> <td>68.30</td> <td>85.38</td> <td>35.86</td> <td>11.63</td> <td>34.33</td> <td>112</td> <td>12</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>2</td> <td>5176.00</td> <td>98.68</td> <td>-----</td> <td>-----</td> <td>78.24</td> <td>35.88</td> <td>11.65</td> <td>34.33</td> <td>112</td> <td>12</td> <td>Average</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Line	Level	Factor	Loss	Factor	cm	deg	MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	cm	deg	1	5176.00	97.74	29.44	68.30	85.38	35.86	11.63	34.33	112	12	Peak	HORIZONTAL	2	5176.00	98.68	-----	-----	78.24	35.88	11.65	34.33	112	12	Average	HORIZONTAL
Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																																							
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UNII 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

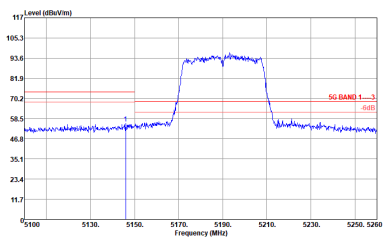
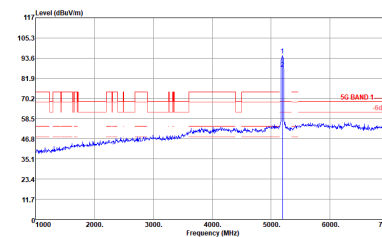
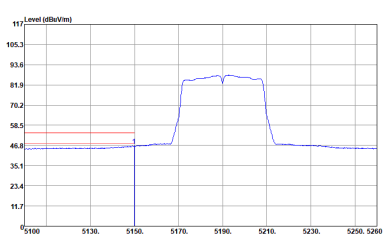
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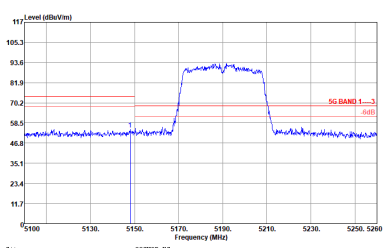
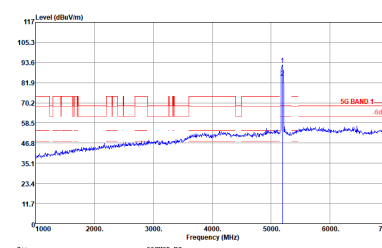
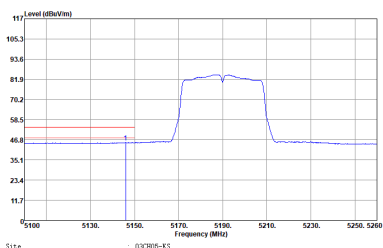
UNII 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

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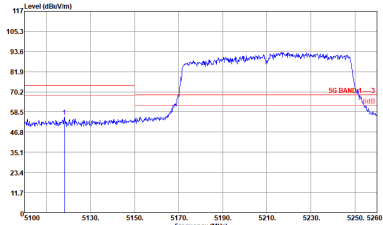
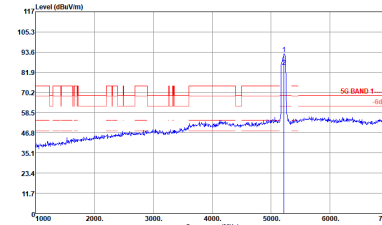
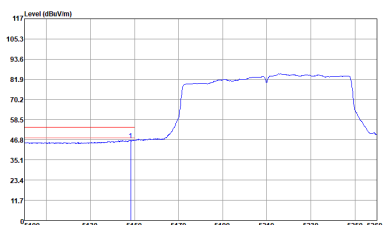
UNII 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

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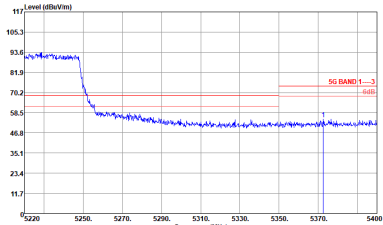
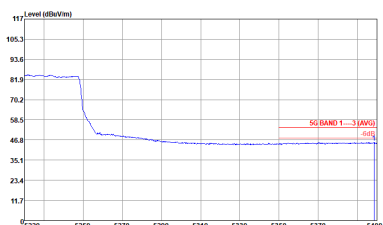


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WIFI	UNII 1 5150~5250MHz Band Edge @ 3m																																		
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<p>Peak</p>	 <p>Site Condition : 032805-85 : SG BAND 1 ---3 3m 3117 00218692 VERTICAL : BW 100k, 000kHZ, YEM 300k, 000kHZ, SWT Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1 5372.64</td> <td>54.71</td> <td>-19.29</td> <td>74.00</td> <td>41.28</td> <td>35.24</td> <td>11.82</td> <td>33.63</td> <td>389</td> <td>261 Peak</td> <td>VERTICAL</td> </tr> </tbody> </table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1 5372.64	54.71	-19.29	74.00	41.28	35.24	11.82	33.63	389	261 Peak	VERTICAL	<p>Left blank</p>
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UNII 1 - 5150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

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UNII 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

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UNII 1 5150~5250MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

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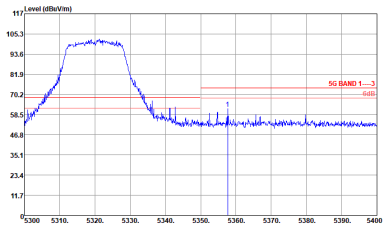
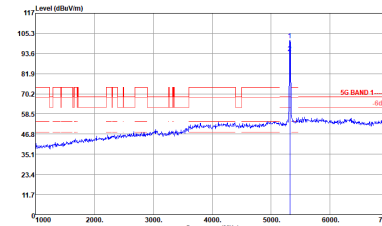
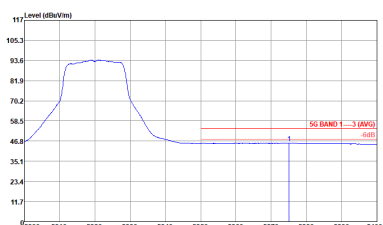


UNII 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

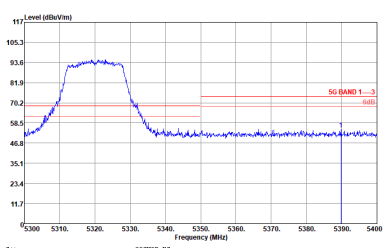
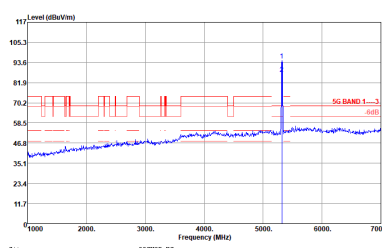
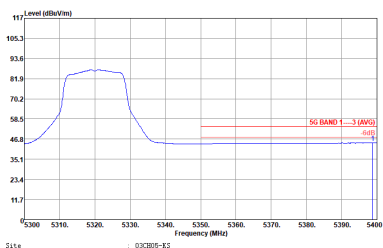
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UNII 2A - 5250~5350MHz
WIFI 802.11a (Band Edge @ 3m)

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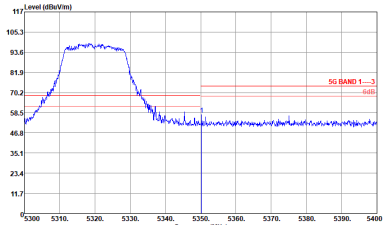
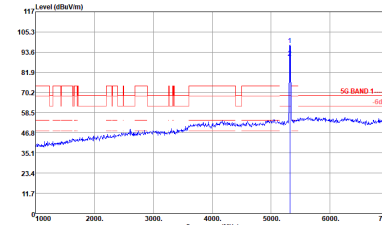
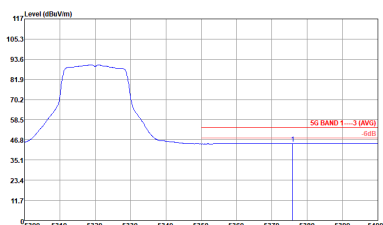
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UNII 2A 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

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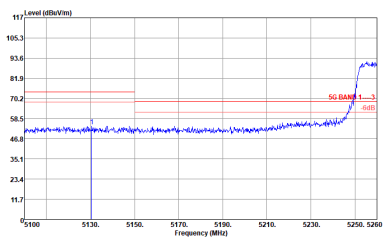
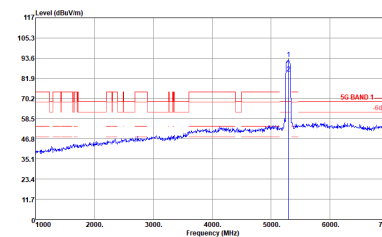
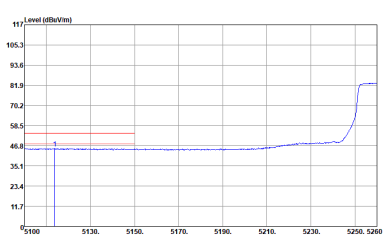
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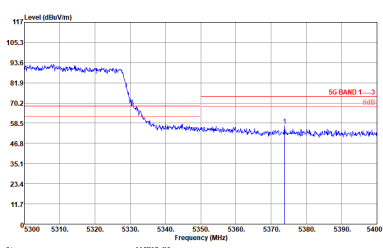
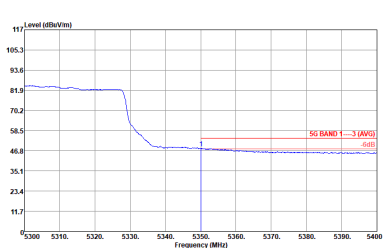
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WIFI 802.11ac VHT80 (Band Edge @ 3m)**

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<p>Peak</p>	<p>Site Condition : 032805-85 : 05 5280 1---3 3m 0117 00218692 VERTICAL : RSW 1000, 0000Hz VIEW 3000, 0000Hz SWT Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5361.00</td> <td>57.10</td> <td>-16.90</td> <td>74.00</td> <td>43.67</td> <td>35.24</td> <td>11.82</td> <td>33.63</td> <td>317</td> <td>273 Peak</td> <td>VERTICAL</td> </tr> </tbody> </table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	5361.00	57.10	-16.90	74.00	43.67	35.24	11.82	33.63	317	273 Peak	VERTICAL	<p>Left blank</p>
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UNII 2A - 5250~5350MHz
WIFI 802.11a (Harmonic @ 3m)

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UNII 2A 5250~5350MHz
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UNII 2A 5250~5350MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

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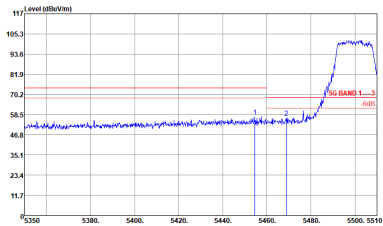
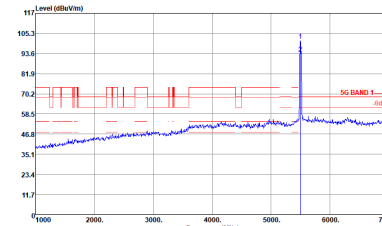
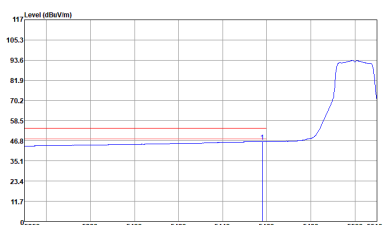


UNII 2A 5250~5350MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

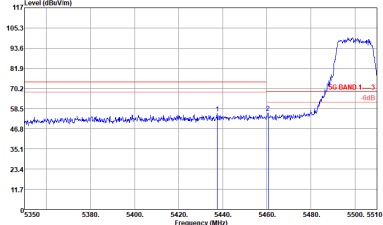
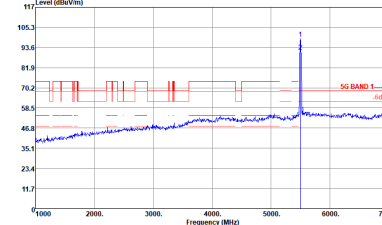
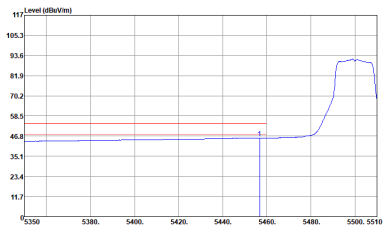
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UNII 2C - 5470~5725MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	UNII 2C 5470~5725MHz Band Edge @ 3m																																																																																																											
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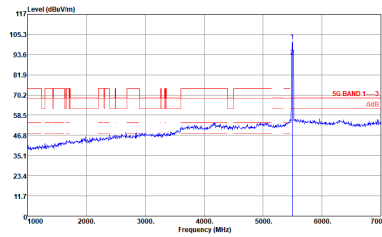
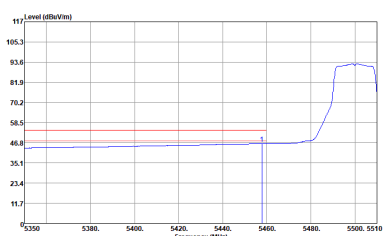
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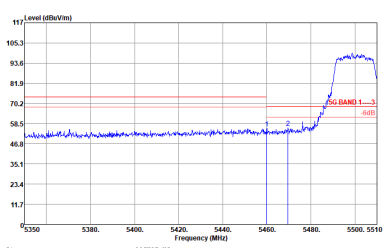
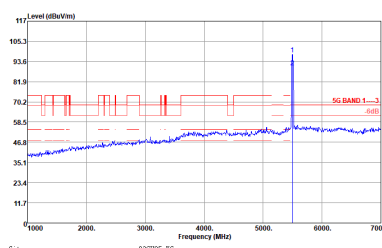
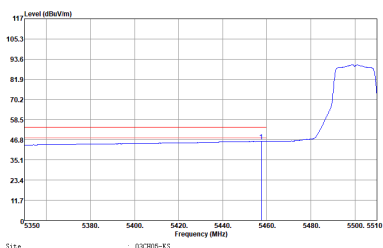
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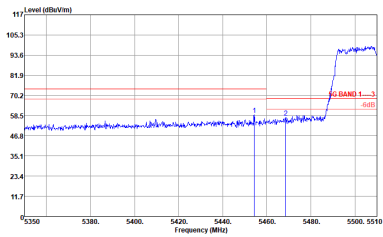
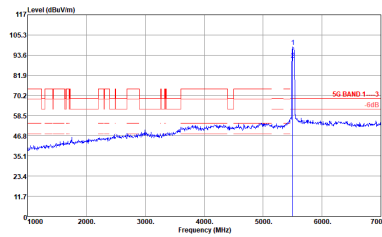
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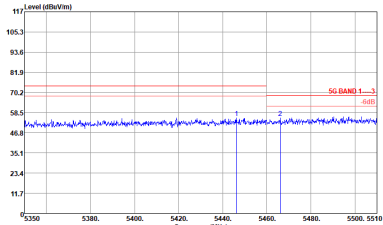
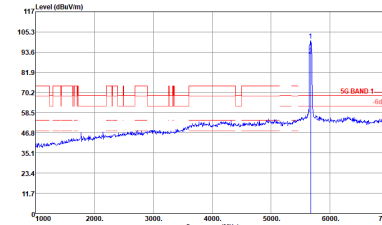
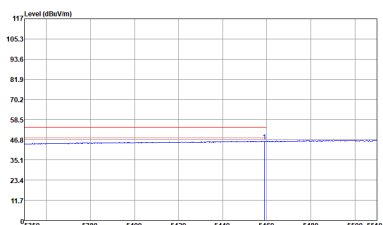


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Peak	<div data-bbox="432 495 810 719"> </div> <div data-bbox="432 725 730 757"> <p>Site Condition : 030805-ES : 56.5dBm ---3 dB 5117 00218852 80211NHTAL : BW 100K, 500KHz YEN 300L, 000KHz SKY Auto</p> </div> <div data-bbox="432 801 817 855"> <table border="1"> <thead> <tr> <th>Peak</th> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAttenu</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>CM</th> <th>dB</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5734.92</td> <td>58.69</td> <td>-9.61</td> <td>68.30</td> <td>43.71</td> <td>15.68</td> <td>12.16</td> <td>32.86</td> <td>246</td> <td>303 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table> </div>		Peak	Freq	Level	Over	Limit	ReadAttenu	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	CM	dB			1	5734.92	58.69	-9.61	68.30	43.71	15.68	12.16	32.86	246	303 Peak	HORIZONTAL
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UNII 2C 5470~5725MHz
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Avg.	<p>Site Condition : 032805-R3 : 5G BAND 1---3 (XP) In 3117 00218652 VERTICAL : REF: 1000.0000Hz VHF 2.200000Hz SPT: Auto</p> <table border="1"> <thead> <tr> <th>Peak</th> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5455.12</td> <td>46.38</td> <td>-7.62</td> <td>54.00</td> <td>32.38</td> <td>35.32</td> <td>11.93</td> <td>33.23</td> <td>317</td> <td>266 Average</td> <td>VERTICAL</td> </tr> </tbody> </table>	Peak	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg			1	5455.12	46.38	-7.62	54.00	32.38	35.32	11.93	33.23	317	266 Average	VERTICAL	Left blank																																																												
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WIFI	UNII 2C 5470~5725MHz Band Edge @ 3m																																			
ANT	802.11ac VHT80 CH122 5610MHz - R																																			
1	Vertical	Fundamental																																		
Peak	<p>Site Condition : 032805-83 : 06.50MHz ----3 2m 0117 00120802 TEST10AL : 80W 100A, 0000Ets YES 300L, 0000Ets SKT Auto</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAttenua</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>CM</th> <th>dB</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5735.00</td> <td>56.50</td> <td>-11.88</td> <td>66.50</td> <td>41.52</td> <td>35.68</td> <td>12.16</td> <td>32.86</td> <td>317</td> <td>266 Peak</td> <td>VERTICAL</td> </tr> </tbody> </table>	Freq	Level	Over	Limit	ReadAttenua	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	CM	dB			1	5735.00	56.50	-11.88	66.50	41.52	35.68	12.16	32.86	317	266 Peak	VERTICAL	Left blank
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UNII 2C - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	UNII 2C 5470~5725MHz Harmonic @ 3m																																																																									
ANT	802.11a CH100 5500MHz																																																																									
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UNII 2C 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

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UNII 2C 5470~5725MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

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UNII 2C 5470~5725MHz
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UNII 2C - 5470~5725MHz

UNII 2C - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI	UNII 2C Straddle Channel Band Edge @ 3m																																																																																	
ANT	802.11a CH144 5720MHz - L																																																																																	
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UNII 2C – Straddle Channel
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	UNII 2C Straddle Channel Band Edge @ 3m																																																																																	
ANT	802.11n CH144 5720MHz - L																																																																																	
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UNII 2C – Straddle Channel
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	UNII 2C Straddle Channel Band Edge @ 3m																																																																															
ANT	802.11n CH142 5710MHz - L																																																																															
1	Horizontal	Vertical																																																																														
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UNII 2C – Straddle Channel
WIFI 802.11VHT80 (Band Edge @ 3m)

WIFI	UNII 2C Straddle Channel Band Edge @ 3m																																																																					
ANT	802.11ac CH138 5690MHz - L																																																																					
1	Horizontal	Vertical																																																																				
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UNII 2C - Straddle Channel
WIFI 802.11a (Harmonic @ 3m)

WIFI	UNII 2C Straddle Channel Harmonic @ 3m																																																																			
ANT	802.11a CH144 5720MHz																																																																			
1	Horizontal	Vertical																																																																		
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WIFI 802.11n20 (Harmonic @ 3m)

WIFI	UNII 2C Straddle Channel Harmonic @ 3m																																																																							
ANT	802.11n CH144 5720MHz																																																																							
1	Horizontal	Vertical																																																																						
Peak Avg.	<p>Site : 0A2305-83 Condition : SG BAND 1---3 3m 3117 00218652 HORIZONTAL RFW 1000.000MHz TRF 3000.000MHz SWT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB/m</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 11439.44</td> <td>46.19</td> <td>-27.81</td> <td>74.00</td> <td>59.35</td> <td>38.68</td> <td>17.68</td> <td>68.44</td> <td>300</td> <td>0 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Line	Level Factor	Loss Factor				MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg	1 11439.44	46.19	-27.81	74.00	59.35	38.68	17.68	68.44	300	0 Peak	HORIZONTAL	<p>Site : 0A2305-83 Condition : SG BAND 1---3 3m 3117 00218652 VERTICAL RFW 1000.000MHz TRF 3000.000MHz SWT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB/m</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 11439.44</td> <td>45.35</td> <td>-28.65</td> <td>74.00</td> <td>49.31</td> <td>38.68</td> <td>17.68</td> <td>68.44</td> <td>300</td> <td>0 Peak</td> <td>VERTICAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Line	Level Factor	Loss Factor				MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg	1 11439.44	45.35	-28.65	74.00	49.31	38.68	17.68	68.44	300	0 Peak	VERTICAL
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WIFI 802.11n40 (Harmonic @ 3m)

WIFI	UNII 2C Straddle Channel Harmonic @ 3m																																																																									
ANT	802.11n CH142 5710MHz																																																																									
1	Horizontal	Vertical																																																																								
Peak Avg.	<p>Site : 002005-05 Condition : SG BAND 1-----3 3m 3117 00218652 HORIZONTAL RFW 1000.000MHz TRW 3000.000MHz SWT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> </tr> </thead> <tbody> <tr> <td>1 11419.42</td> <td>45.58</td> <td>-28.42</td> <td>74.00</td> <td>55.00</td> <td>38.67</td> <td>17.59</td> <td>66.48</td> <td>300 0 Peak HORIZONTAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Line	Level	Factor	Loss	Factor			MHz	dBuV/m	dB	dBuV/m	dB	dB	cm	deg		1 11419.42	45.58	-28.42	74.00	55.00	38.67	17.59	66.48	300 0 Peak HORIZONTAL	<p>Site : 002005-05 Condition : SG BAND 1-----3 3m 3117 00218652 VERTICAL RFW 1000.000MHz TRW 3000.000MHz SWT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> </tr> </thead> <tbody> <tr> <td>1 11419.42</td> <td>44.21</td> <td>-29.79</td> <td>74.00</td> <td>54.43</td> <td>38.67</td> <td>17.59</td> <td>66.48</td> <td>300 0 Peak VERTICAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Line	Level	Factor	Loss	Factor			MHz	dBuV/m	dB	dBuV/m	dB	dB	cm	deg		1 11419.42	44.21	-29.79	74.00	54.43	38.67	17.59	66.48	300 0 Peak VERTICAL
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WIFI 802.11VHT80 (Harmonic @ 3m)

WIFI	UNII 2C Straddle Channel Harmonic @ 3m																																																													
ANT	802.11ac80 CH138 5690MHz																																																													
1	Horizontal	Vertical																																																												
Peak Avg.	<p>Site : 03200-05 Condition : 02 BAND 1-----3 3m 3117 00218652 HORIZONTAL RFW 1000.000MHz TWP 3000.000MHz SWT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>11179.35</td> <td>44.37</td> <td>-29.63</td> <td>74.00</td> <td>54.61</td> <td>38.66</td> <td>17.58</td> <td>66.48</td> <td>300</td> <td>0 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Line	Level	Factor	cm	deg			1	11179.35	44.37	-29.63	74.00	54.61	38.66	17.58	66.48	300	0 Peak	HORIZONTAL	<p>Site : 03200-05 Condition : 02 BAND 1-----3 3m 3117 00218652 VERTICAL RFW 1000.000MHz TWP 3000.000MHz SWT Auto</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>11179.35</td> <td>45.88</td> <td>-28.92</td> <td>74.00</td> <td>55.12</td> <td>38.66</td> <td>17.58</td> <td>66.48</td> <td>300</td> <td>0 Peak</td> <td>VERTICAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Line	Level	Factor	cm	deg			1	11179.35	45.88	-28.92	74.00	55.12	38.66	17.58	66.48	300	0 Peak	VERTICAL
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UNII 2C – Straddle Channel

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

WIFI	5GHz WIFI																																																																																																																																																																																													
ANT	802.11ac VHT80 LF																																																																																																																																																																																													
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QP / Peak	<p>Site Condition : 03C305-K3 : 5G BAND 1-3 In CH61110 0823188 HORIZONTAL : 50W 100.000000Hz VHF 300.000000Hz SWI 2000</p> <table border="1"> <thead> <tr> <th>Over</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Level</th> <th>Level</th> <th>Loss</th> <th>Loss</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>39.70</td> <td>24.15</td> <td>-15.65</td> <td>48.00</td> <td>36.11</td> <td>19.90</td> <td>0.94</td> <td>32.80</td> <td>---</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>2</td> <td>189.54</td> <td>28.37</td> <td>-15.13</td> <td>43.50</td> <td>41.69</td> <td>17.90</td> <td>1.58</td> <td>32.88</td> <td>---</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>3</td> <td>155.19</td> <td>24.41</td> <td>-15.09</td> <td>43.50</td> <td>37.99</td> <td>17.43</td> <td>1.67</td> <td>32.82</td> <td>---</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>4</td> <td>176.47</td> <td>27.87</td> <td>-15.63</td> <td>43.50</td> <td>41.95</td> <td>16.86</td> <td>2.82</td> <td>32.96</td> <td>---</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>5</td> <td>228.82</td> <td>26.63</td> <td>-15.39</td> <td>46.00</td> <td>39.27</td> <td>18.15</td> <td>2.33</td> <td>33.18</td> <td>---</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>6</td> <td>532.46</td> <td>26.91</td> <td>-15.89</td> <td>46.00</td> <td>38.65</td> <td>25.41</td> <td>3.52</td> <td>32.67</td> <td>---</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Over	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Level	Level	Loss	Loss	dB	dB	dB	deg	1	39.70	24.15	-15.65	48.00	36.11	19.90	0.94	32.80	---	---	Peak	HORIZONTAL	2	189.54	28.37	-15.13	43.50	41.69	17.90	1.58	32.88	---	---	Peak	HORIZONTAL	3	155.19	24.41	-15.09	43.50	37.99	17.43	1.67	32.82	---	---	Peak	HORIZONTAL	4	176.47	27.87	-15.63	43.50	41.95	16.86	2.82	32.96	---	---	Peak	HORIZONTAL	5	228.82	26.63	-15.39	46.00	39.27	18.15	2.33	33.18	---	---	Peak	HORIZONTAL	6	532.46	26.91	-15.89	46.00	38.65	25.41	3.52	32.67	---	---	Peak	HORIZONTAL	<p>Site Condition : 03C305-K3 : 5G BAND 1-3 In CH61110 0823188 VERTICAL : 50W 100.000000Hz VHF 300.000000Hz SWI 2000</p> <table border="1"> <thead> <tr> <th>Over</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Level</th> <th>Level</th> <th>Loss</th> <th>Loss</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>40.67</td> <td>32.95</td> <td>-7.85</td> <td>48.00</td> <td>45.43</td> <td>19.38</td> <td>0.96</td> <td>32.82</td> <td>---</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>2</td> <td>83.35</td> <td>24.23</td> <td>-15.77</td> <td>48.00</td> <td>41.89</td> <td>14.68</td> <td>1.38</td> <td>32.84</td> <td>---</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>3</td> <td>187.68</td> <td>27.28</td> <td>-15.38</td> <td>43.50</td> <td>40.58</td> <td>18.03</td> <td>2.57</td> <td>32.88</td> <td>---</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>4</td> <td>179.38</td> <td>26.85</td> <td>-17.45</td> <td>43.50</td> <td>40.21</td> <td>16.79</td> <td>2.83</td> <td>32.98</td> <td>---</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>5</td> <td>236.79</td> <td>21.98</td> <td>-24.82</td> <td>46.00</td> <td>34.59</td> <td>18.23</td> <td>2.32</td> <td>33.18</td> <td>---</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>6</td> <td>582.90</td> <td>28.78</td> <td>-17.38</td> <td>46.00</td> <td>31.91</td> <td>25.64</td> <td>3.68</td> <td>32.53</td> <td>---</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> </tbody> </table>	Over	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Level	Level	Loss	Loss	dB	dB	dB	deg	1	40.67	32.95	-7.85	48.00	45.43	19.38	0.96	32.82	---	---	Peak	VERTICAL	2	83.35	24.23	-15.77	48.00	41.89	14.68	1.38	32.84	---	---	Peak	VERTICAL	3	187.68	27.28	-15.38	43.50	40.58	18.03	2.57	32.88	---	---	Peak	VERTICAL	4	179.38	26.85	-17.45	43.50	40.21	16.79	2.83	32.98	---	---	Peak	VERTICAL	5	236.79	21.98	-24.82	46.00	34.59	18.23	2.32	33.18	---	---	Peak	VERTICAL	6	582.90	28.78	-17.38	46.00	31.91	25.64	3.68	32.53	---	---	Peak	VERTICAL
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Co-location mode:

2.4GHz 2400~2483.5MHz
BLE (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																											
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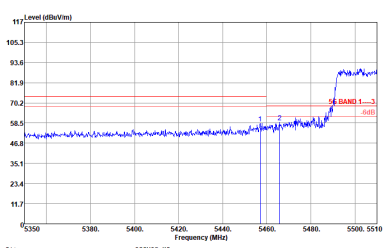
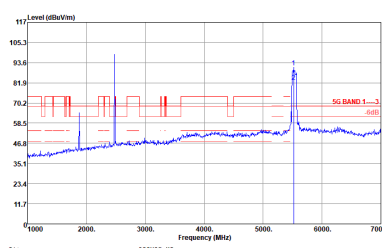
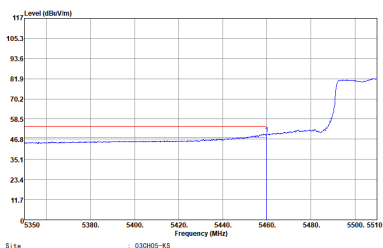
UNII 2C - 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

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**UNII 2C - 5470~5725MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)**

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Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																										
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1 11059.05	44.40	-29.60	74.00	48.93	38.55	17.45	60.53	300	0 Peak	VERTICAL																																																										



Emission below 1GHz
5GHz WIFI 802.11ac VHT80&BLE&GSM1900 (LF)

WIFI	5GHz WIFI																																																																																																																																																																																																	
ANT	LF																																																																																																																																																																																																	
1	Horizontal	Vertical																																																																																																																																																																																																
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