

FCC PART 15.407

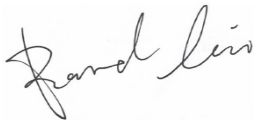
TEST REPORT

For

Feitian Technologies Co., Ltd.

Floor 17th, Tower B, Huizhi Mansion, No.9 Xueqing Road, Haidian District, Beijing, China

FCC ID: ZD3FTF360

Report Type: Original Report	Product Name: Android POS Terminal
Report Number:	RKSA240319001-00D
Report Date:	2024-11-11
Reviewed By:	Bard Liu 
Approved By:	Kyle Xu 
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Kunshan) No.248 Chenghu Road, Kunshan, Jiangsu Province, China Tel: +86-512-86175000 Fax: +86-512-88934268 www.baclcorp.com.cn

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S. Government.

TABLE OF CONTENTS

REPORT REVISION HISTORY.....	4
GENERAL INFORMATION.....	5
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	5
OBJECTIVE	6
TEST METHODOLOGY	6
MEASUREMENT UNCERTAINTY.....	6
TEST FACILITY	6
SYSTEM TEST CONFIGURATION.....	7
DESCRIPTION OF TEST CONFIGURATION	7
EUT EXERCISE SOFTWARE	9
EQUIPMENT MODIFICATIONS	20
SUPPORT EQUIPMENT LIST AND DETAILS	20
EXTERNAL I/O CABLE.....	20
BLOCK DIAGRAM OF TEST SETUP	21
TEST EQUIPMENT LIST	23
SUMMARY OF TEST RESULTS	24
FCC §15.203 – ANTENNA REQUIREMENT.....	25
APPLICABLE STANDARD	25
ANTENNA CONNECTOR CONSTRUCTION	25
FCC §15.407 (b) (9) §15.207 (a) – AC POWER LINE CONDUCTED EMISSIONS.....	26
APPLICABLE STANDARD	26
TEST SYSTEM SETUP.....	26
EMI TEST RECEIVER SETUP.....	26
TEST PROCEDURE	27
TEST RESULTS SUMMARY	27
§15.205 & §15.209 & §15.407(B) – UNDESIRABLE EMISSION & RESTRICTED BANDS	28
APPLICABLE STANDARD	28
TEST SYSTEM SETUP.....	28
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	31
TEST PROCEDURE	31
FCC §15.407(a) & §15.407(e)–EMISSION BANDWIDTH.....	32
APPLICABLE STANDARD	32
TEST PROCEDURE	32
FCC §15.407(a) – CONDUCTED TRANSMITTER OUTPUT POWER.....	33
APPLICABLE STANDARD	33
TEST PROCEDURE	33
FCC §15.407(a) - POWER SPECTRAL DENSITY	34
APPLICABLE STANDARD	34
TEST PROCEDURE	34
EUT PHOTOGRAPHS.....	35
TEST SETUP PHOTOGRAPHS	36
APPENDIX - TEST DATA.....	37
ENVIRONMENTAL CONDITIONS & TEST INFORMATION.....	37

TRANSMITTER UNWANTED EMISSIONS & RESTRICTED FREQUENCY BANDS	40
EMISSION BANDWIDTH.....	96
CONDUCTED TRANSMITTER OUTPUT POWER.....	144
POWER SPECTRAL DENSITY	146

REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RKSA240319001-00D	R1V1	2024-11-11	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Feitian Technologies Co., Ltd.			
Tested Model:	F360			
Product Name:	Android POS Terminal			
Power Supply:	DC 3.7V from battery or DC 5V charging by adapter			
Maximum Average Output Power	5G Wi-Fi B1:	5G Wi-Fi B2:	5G Wi-Fi B3:	5G Wi-Fi B4:
	802.11a: 13.71 dBm	13.53 dBm	15.81 dBm	15.71 dBm
	802.11ac20: 13.52 dBm	13.50 dBm	14.14 dBm	15.56 dBm
	802.11ac40: 13.65 dBm	13.44 dBm	15.18 dBm	15.63 dBm
	802.11ac80: 9.30 dBm	10.40 dBm	15.62 dBm	15.56 dBm
Operating Frequency	5G Wi-Fi B1: 5180-5240 MHz, B2: 5260~5320 MHz, B3: 5500~5720 MHz, B4: 5745-5825 MHz			
Channel Number	5G Wi-Fi B1: 7; B2: 7; B3: 21; B4: 8			
Channel Separation	5G Wi-Fi: a/ac20/n20: 20 MHz, ac40/n40: 40 MHz, ac80: 80 MHz			
Modulation Type	OFDM			
Antenna Type	FPC Antenna			
★Maximum Antenna Gain	Band 1: -0.51 dBi Band 2: -0.51 dBi Band 3: -2.30 dBi Band 4: -1.97 dBi			

Adapter Information:

Model: TEKA-UCA20US

Input: 100-240V, 50/60Hz, 0.35A Max

Output: 5.0V, 2.0A

Note: The maximum antenna gain was declared by the manufacturer.

All measurement and test data in this report was gathered from production sample serial number: RKSA240319001-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2024-03-19.)

Objective

This type approval report is prepared for *Feitian Technologies Co., Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions' rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Kunshan).

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19 dB
RF conducted test with spectrum		0.9dB
RF Output Power with Power meter		0.5dB
Radiated emission	9 kHz~150 kHz	3.8dB
	150 kHz~30 MHz	3.4dB
	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth		0.5kHz
Temperature		1.0°C
Humidity		6%

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu Province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN5055.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The EUT was configured for testing in an engineering mode which was provided by the manufacturer.

The system support 802.11a/n ht20/n ht40/ac vht20/ac vht40/ ac vht80, the 802.11 n ht20/n ht40 were reduced since the identical parameters with 802.11ac vht20 and vht40

For **5150~5250 MHz** band, test channel list is as below,

802.11a/ac20 mode Channel 36, 40, 48 were tested.

802.11ac40 mode Channel 38, 46 were tested.

802.11ac80 mode Channel 42 was tested.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
38	5190	46	5230
40	5200	48	5240
42	5210	/	/

For **5250~5350 MHz** band, test channel list is as below,

802.11a/ac20 mode Channel 52, 56, 64 were tested.

802.11ac40 mode Channel 54, 62 were tested.

802.11ac80 mode Channel 58 was tested.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300
54	5270	62	5310
56	5280	64	5320
58	5290	/	/

For **5470~5725 MHz** band, test channel list is as below,

802.11a/ac20 mode Channel 100, 116, 140, 144 were tested.

802.11ac40 mode Channel 102, 110, 134, 142 were tested.

802.11ac80 mode Channel 106, 122, 138 was tested.

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	116	5580	132	5660
102	5510	118	5590	134	5670
104	5520	120	5600	136	5680
106	5530	122	5610	138	5690
108	5540	124	5620	140	5700
110	5550	126	5630	142	5710
112	5560	128	5640	144	5720

For **5725~5850 MHz** band,

802.11a/ac20 mode Channel 149, 157, 165 were tested.

802.11ac40 mode Channel 151, 159 were tested.

802.11ac80 mode Channel 155 was tested.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	159	5795
151	5755	161	5805
153	5765	165	5825
155	5775	/	/
157	5785	/	/

EUT Exercise Software

No exercise software was used to test.

The worst case was performed under:

U-NII	Mode	Data rate	★Power Level		
			Low Channel	Middle Channel	High Channel
5150~5250MHz	802.11a	6Mbps	18	18	18
	802.11ac-VHT20	MCS0	18	18	18
	802.11ac-VHT40	MCS0	15	/	18
	802.11ac-VHT80	MCS0	/	13	/

U-NII	Mode	Data rate	★Power Level		
			Low Channel	Middle Channel	High Channel
5250~5350MHz	802.11a	6Mbps	18	18	18
	802.11ac-VHT20	MCS0	18	18	18
	802.11ac-VHT40	MCS0	18	/	14
	802.11ac-VHT80	MCS0	/	14	/

U-NII	Mode	Data rate	★Power Level			
			Low Channel	Middle Channel	High Channel	Cross Channel
5470~5725MHz	802.11a	6Mbps	18	14	14	14
	802.11ac-VHT20	MCS0	16	16	13	13
	802.11ac-VHT40	MCS0	14	16	14	14
	802.11ac-VHT80	MCS0	12	/	18	18

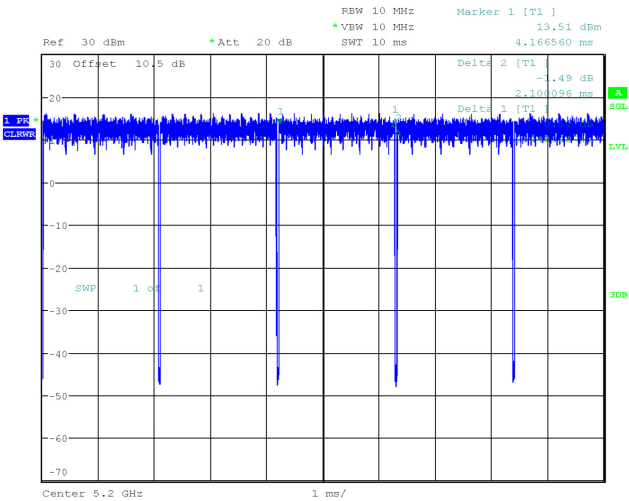
U-NII	Mode	Data rate	★Power Level		
			Low Channel	Middle Channel	High Channel
5725~5850MHz	802.11a	6Mbps	18	18	18
	802.11ac-VHT20	MCS0	18	18	18
	802.11ac-VHT40	MCS0	18	/	18
	802.11ac-VHT80	MCS0	/	17	/

Note: The power level was declared by the applicant.

Duty Cycle

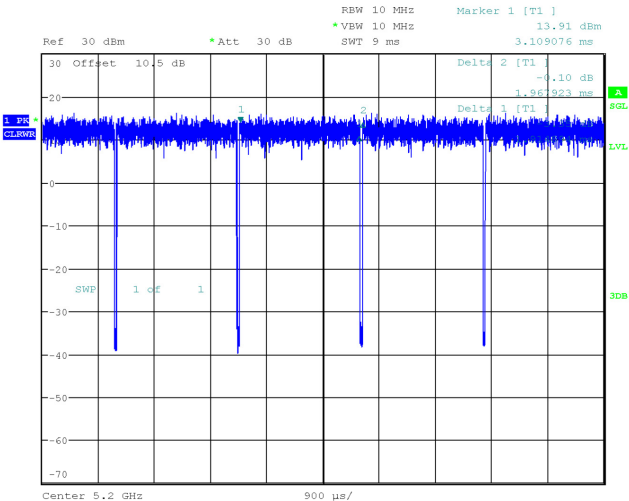
5150MHz-5250MHz Band:

802.11a mode



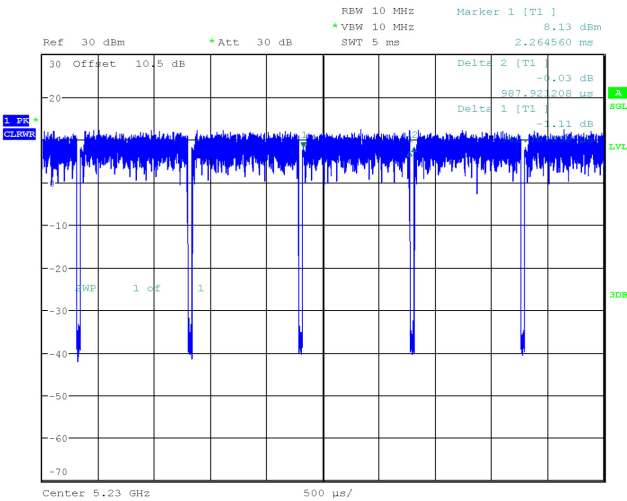
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Date: 16.MAY.2024 13:57:12

802.11ac20 mode



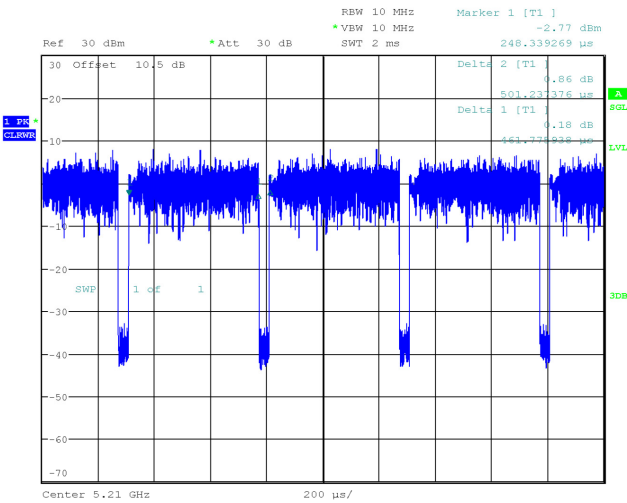
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Date: 16.MAY.2024 16:38:53

802.11ac40 mode



ProjectNo.:RKSA240319001 Tester:Loki Shi
Date: 16.MAY.2024 17:32:14

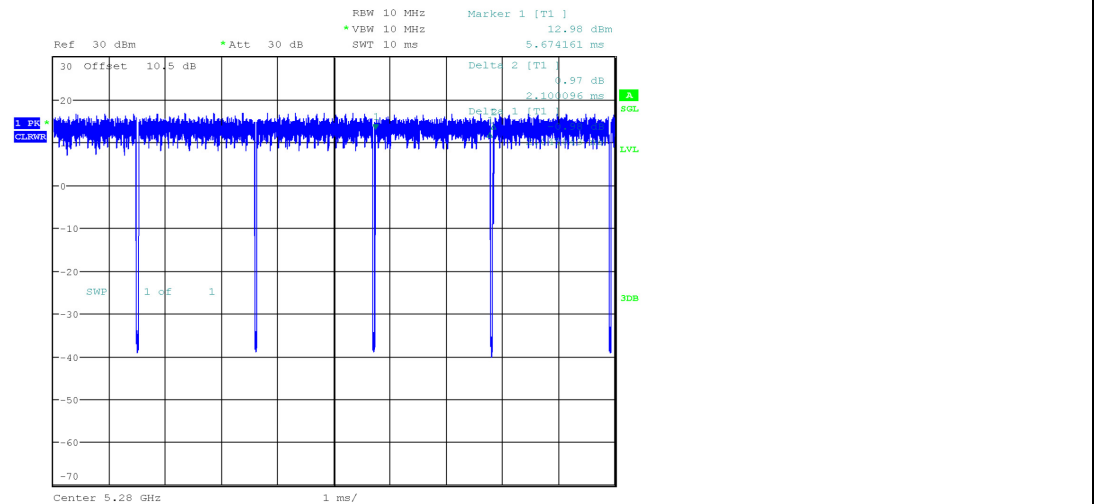
802.11ac80 mode



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Date: 16.MAY.2024 17:38:27

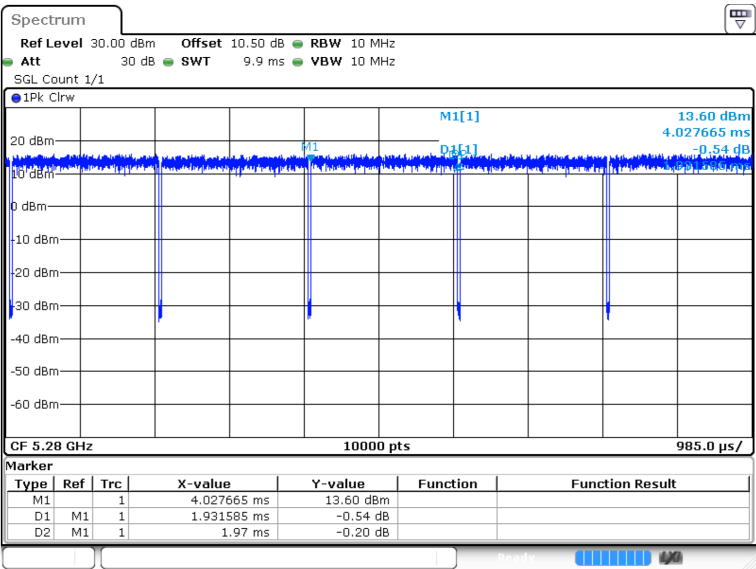
5250MHz-5350MHz Band:

802.11a mode



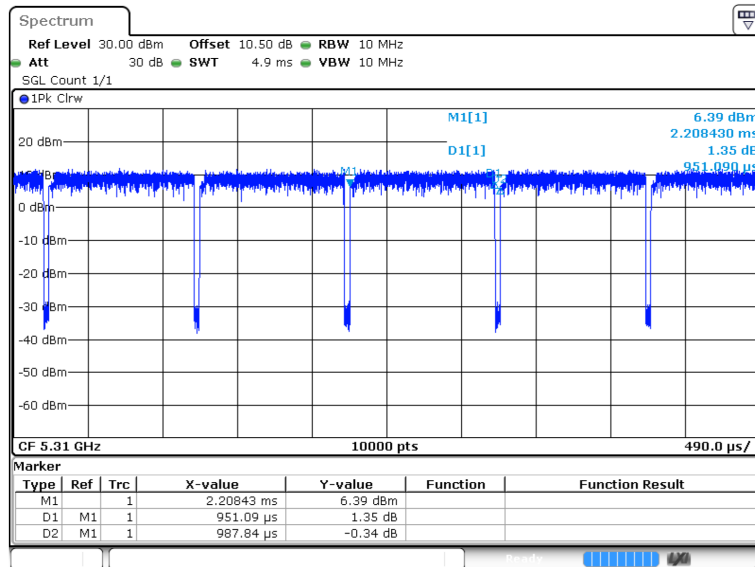
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Date: 16.MAY.2024 17:53:47

802.11ac20 mode



ProjectNo.:RKSA240319001 Tester:Loki Shi
Date: 16.MAY.2024 20:18:39

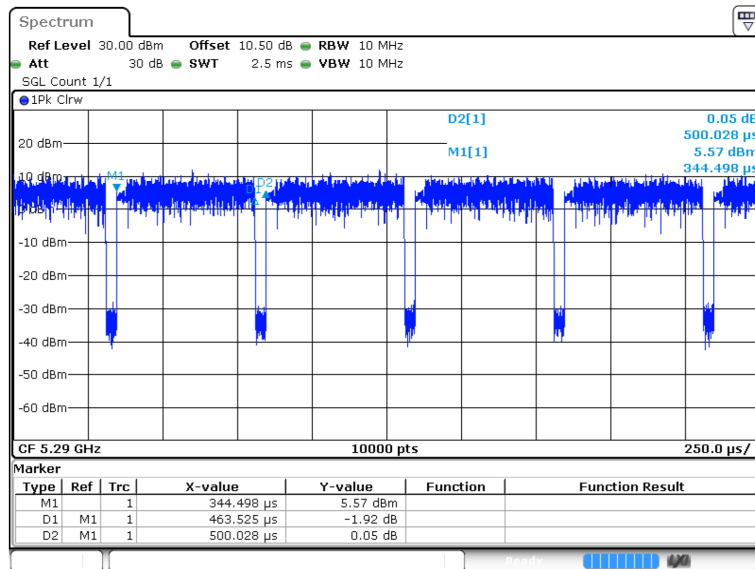
802.11ac40 mode



ProjectNo.: RKSA240319001 Tester:Loki Shi

Date: 16 MAY.2024 20:58:33

802.11ac80 mode

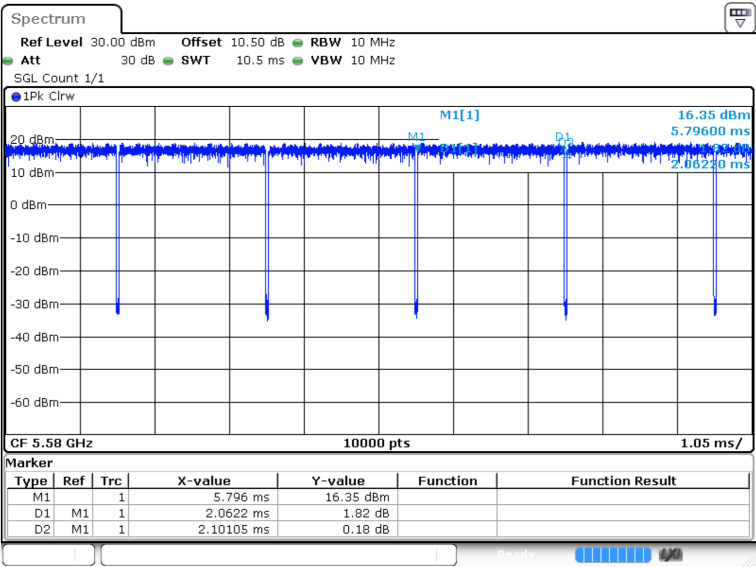


ProjectNo.: RKSA240319001 Tester:Loki Shi

Date: 16 MAY.2024 20:27:41

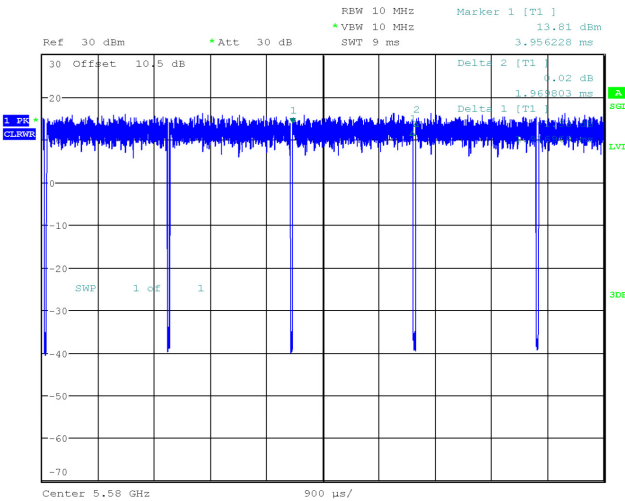
5470MHz-5725MHz Band:

802.11a mode



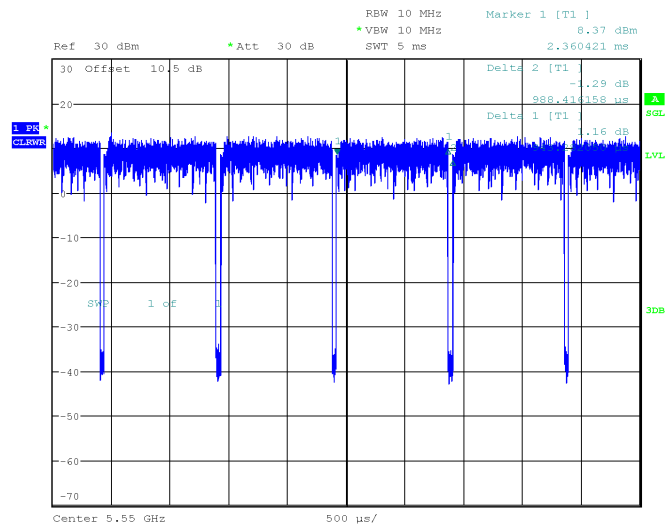
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Date: 16.MAY.2024 20:31:20

802.11ac20 mode



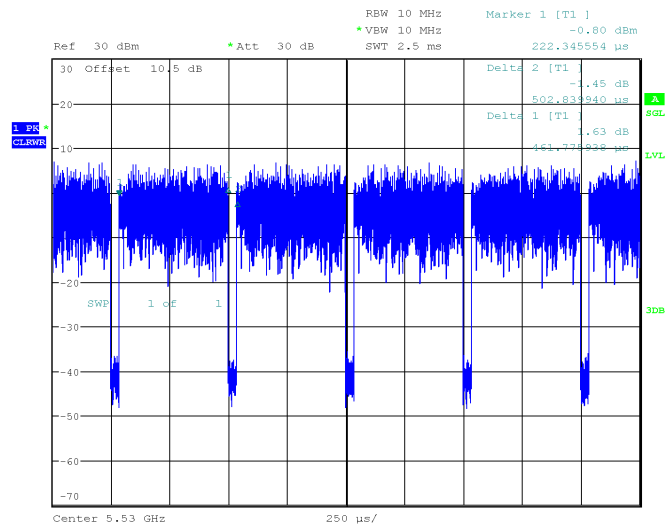
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Date: 17.MAY.2024 09:21:17

802.11ac40 mode



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 Date: 17.MAY.2024 09:33:51

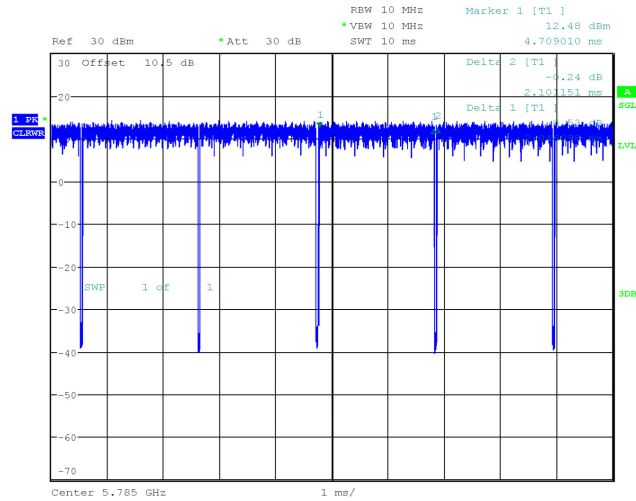
802.11ac80 mode



ProjectNo.:RKSA240319001 Tester:Loki Shi
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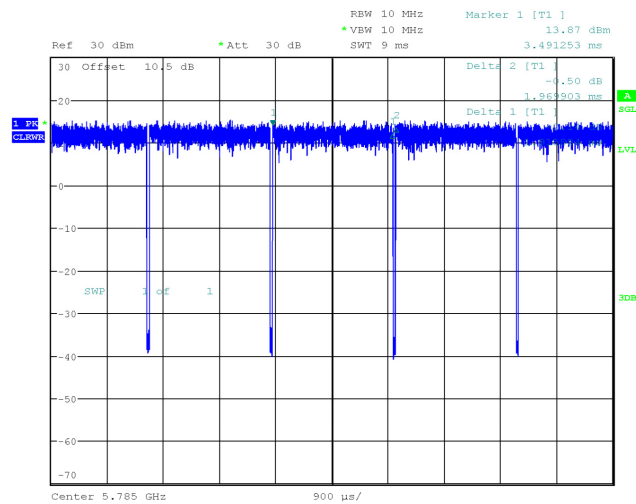
5725MHz-5850MHz Band:

802.11a mode



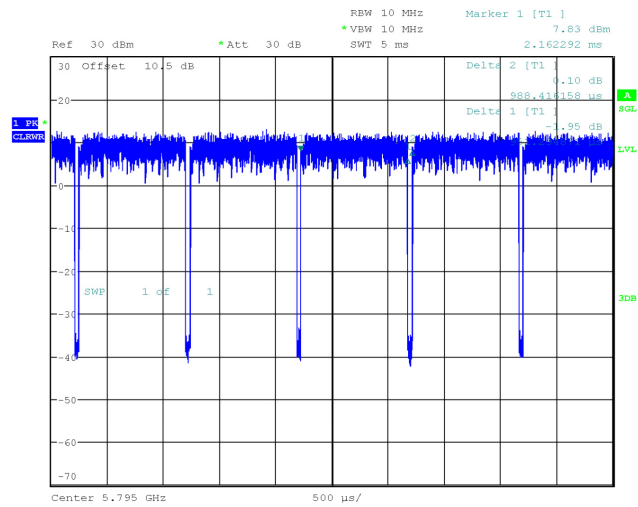
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Date: 17.MAY.2024 10:29:46

802.11ac20 mode



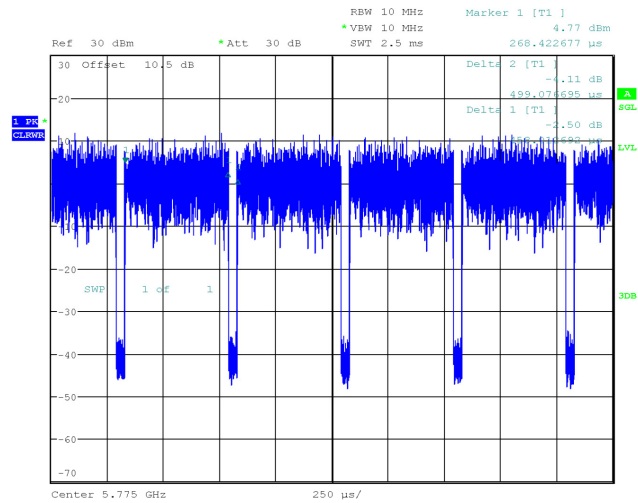
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Date: 17.MAY.2024 13:05:22

802.11ac40 mode



ProjectNo.:RKSA240319001 Tester:Loki Shi
Date: 17.MAY.2024 13:21:24

802.11ac80 mode



ProjectNo.:RKSA240319001 Tester:Loki Shi
Date: 17.MAY.2024 13:30:41

5.2G

Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/Ton (Hz)
a_5200MHz_Chain 0	2.045	2.100	97.38	0.12	489
ac20_5200MHz_Chain 0	1.915	1.968	97.31	0.12	522
ac40_5230MHz_Chain 0	0.943	0.988	95.45	0.20	1060
ac80_5290MHz_Chain 0	0.462	0.501	92.22	0.35	2165

5.3G

Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/Ton (Hz)
a_5280MHz_Chain 0	2.045	2.100	97.38	0.12	489
ac20_5280MHz_Chain 0	1.932	1.970	98.07	/	/
ac40_5310MHz_Chain 0	0.951	0.988	96.26	0.17	1052
ac80_5290MHz_Chain 0	0.464	0.500	92.80	0.32	2155

5.6G

Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/Ton (Hz)
a_5580MHz_Chain 0	2.062	2.101	98.14	/	/
ac20_5580MHz_Chain 0	1.917	1.970	97.31	0.12	522
ac40_5550MHz_Chain 0	0.943	0.988	95.45	0.20	1060
ac80_5530MHz_Chain 0	0.462	0.503	91.85	0.37	2165

5.8G

Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/Ton (Hz)
a_5785MHz_Chain 0	2.046	2.101	97.38	0.12	489
ac20_5785MHz_Chain 0	1.916	1.970	97.26	0.12	522
ac40_5795MHz_Chain 0	0.951	0.988	96.26	0.17	1052
ac80_5775MHz_Chain 0	0.458	0.499	91.78	0.37	2183

Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

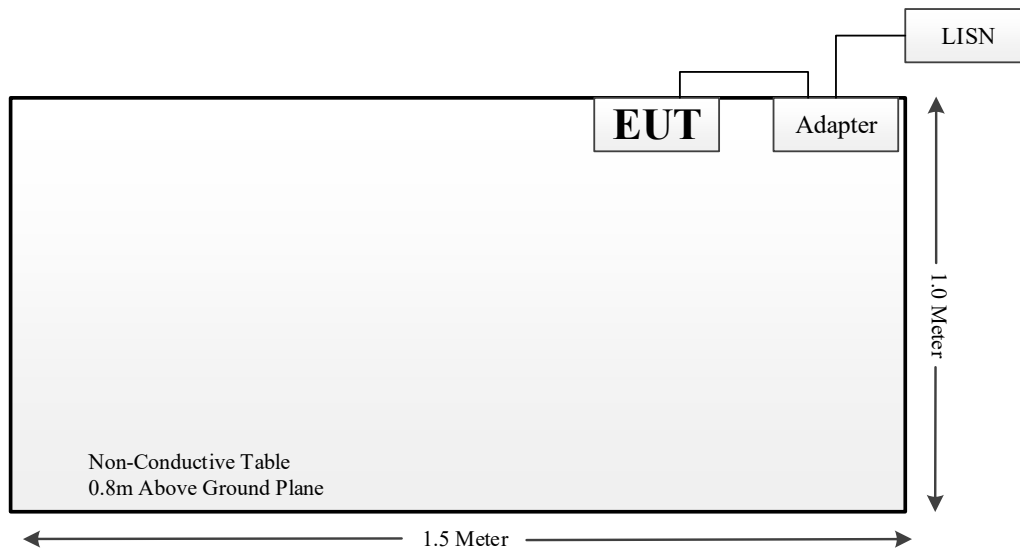
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

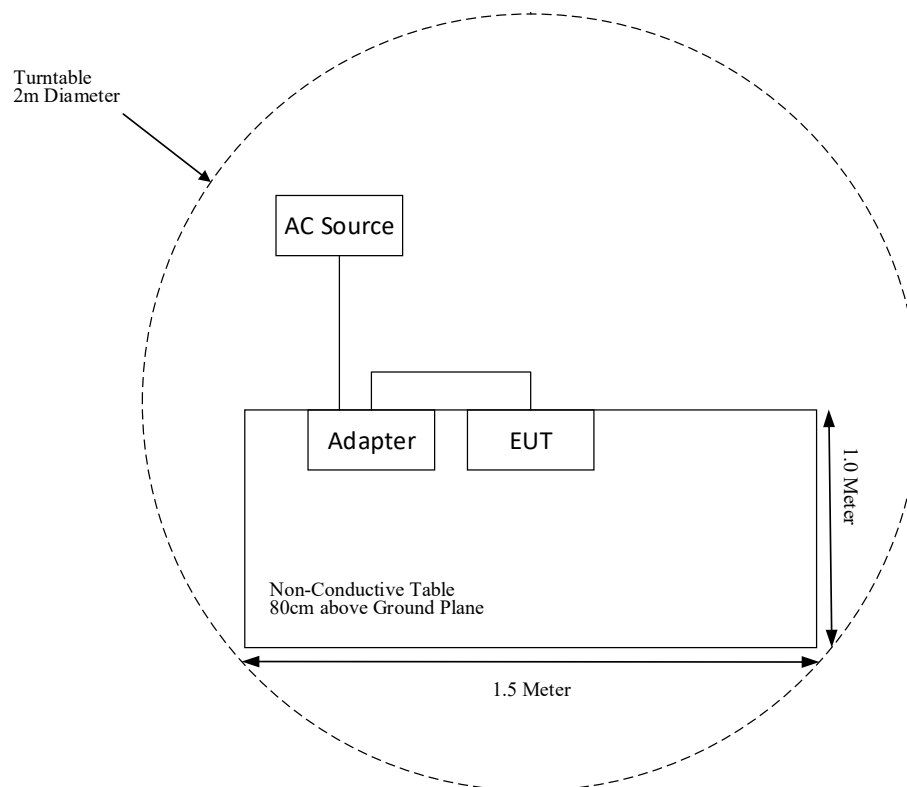
Cable Description	Length (m)	From Port	To
Power Cable	1.0	LISN	Adapter
USB Cable	1.5	Adapter	EUT

Block Diagram of Test Setup

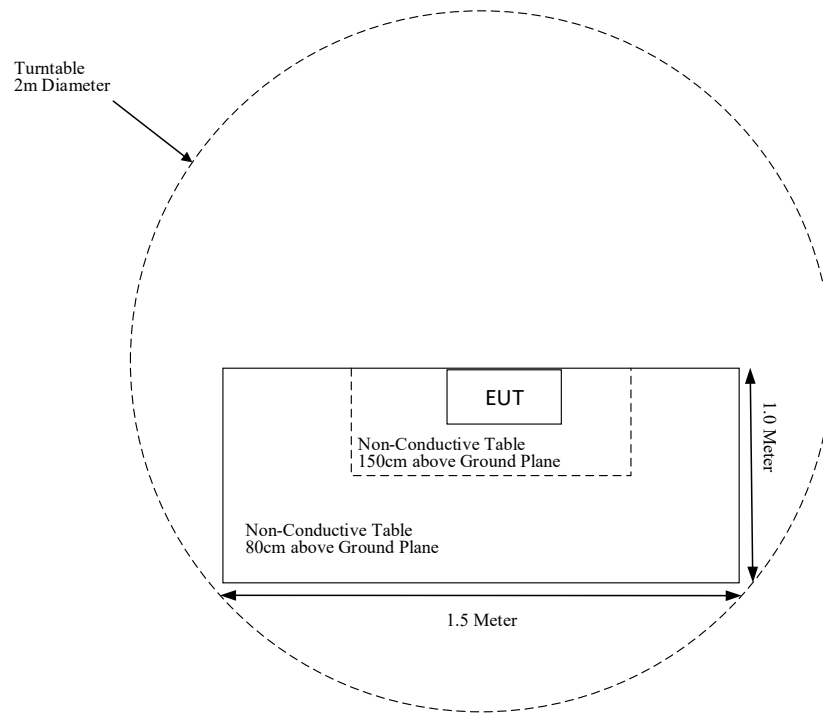
For Conducted Emissions:



For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1 GHz):



TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber #1)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2024-04-23	2025-04-22
Sunol Sciences	Hybrid Antenna	JB3	A090314-1	2023-11-11	2024-11-10
ETS-LINDGREN	Loop Antenna	6512	108100	2024-11-03	2025-11-02
Sonoma Instrument	Amplifier	310N	171205	2024-04-23	2025-04-22
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-9	009	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-10	010	2024-04-23	2025-04-22
Narda	6dB Attenuator	773-6	10690812-2-1	2023-11-11	2024-11-10
Radiated Emission Test (Chamber #2)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2024-04-25	2025-04-24
ETS-LINDGREN	Horn Antenna	3115	9311-4159	2023-12-02	2024-12-01
ETS-LINDGREN	Horn Antenna	3116	84159	2023-12-07	2024-12-06
A.H.Systems,inc	Amplifier	PAM-0118P	512	2024-04-25	2025-04-24
EM Electronics Corporation	Amplifier	EM18G40G	060726	2024-04-25	2025-04-24
MICRO-TRONICS	Band Reject Filter	BRC50703	G094	2024-05-23	2025-05-22
MICRO-TRONICS	Band Reject Filter	BRC50704	84	2024-05-23	2025-05-22
MICRO-TRONICS	Band Reject Filter	BRC50705	G085	2024-05-23	2025-05-22
Narda	Attenuator	10dB	010	2024-04-23	2025-04-22
Narda	Attenuator	6dB	006	2024-04-23	2025-04-22
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-11	011	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-12	012	2024-04-25	2025-04-24
RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2024-04-24	2025-04-23
Anritsu	Power Sensor	MA24418A	12621	2024-04-23	2025-04-22
N/A	Attenuator	10 dB	N/A	2024-04-23	2025-04-22
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A
Rohde & Schwarz	Spectrum Analyzer	FSU26	200103	2024-04-24	2025-04-23
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	101746	2024-04-23	2025-04-22
Rohde & Schwarz	LISN	ENV216	101115	2024-04-23	2025-04-22
Audix	Test Software	e3	V9	N/A	N/A
Rohde & Schwarz	Pulse Limiter	ESH3-Z2	0357.8810.54	2024-04-24	2025-04-23
MICRO-COAX	Coaxial Cable	Cable-15	015	2024-04-23	2025-04-22

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207 & §15.407(b) (9)	AC Power Line Conducted Emissions	Compliant
§ 15.205 & §15.209 & §15.407(b)	Undesirable Emission & Restricted Bands	Compliant
§§15.407(a) & §15.407(e)	Emission Bandwidth	Compliant
§15.407(a)	Conducted Transmitter Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.407, if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

Antenna permanently attached to the unit. fulfill the requirement of this section. Please refer to the EUT photos.

Antenna Type	Frequency Range	Max. Antenna Gain	Input impedance
FPC	5150~5250 MHz	-0.51 dBi	50Ω
	5250~5350 MHz	-0.51 dBi	50Ω
	5470~5725 MHz	-2.30 dBi	50Ω
	5725~5850 MHz	-1.97 dBi	50Ω

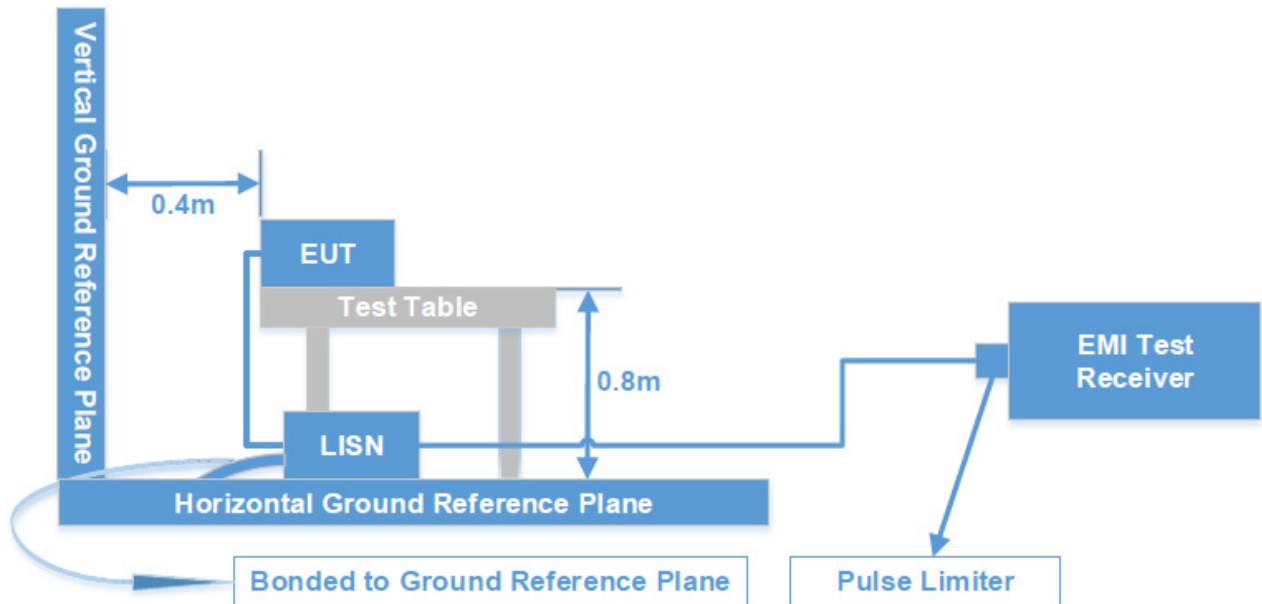
Result: Compliant.

FCC §15.407 (b) (9) §15.207 (a) – AC POWER LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a), §15.407(b) (9)

Test System Setup



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	VBW
150 kHz - 30 MHz	9 kHz	30 kHz

Test Procedure

During the conducted emission test, the EUT or adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

If the maximum peak value of the emissions is below the average limit, the QP value and average value measurement will not need to be performed and only record the maximum peak measured value to meet the requirements.

Level & Over Limit Calculation

The Level is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

Level (dBμV) = Read level (dBμV) + Factor (dB)

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit of 7 dB means the emission is 7 dB above the limit. The equation for Over Limit calculation is as follows:

Over Limit (dB) = Level (dBμV) - Limit (dBμV)

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data: See Appendix

§15.205 & §15.209 & §15.407(B) – UNDESIRABLE EMISSION & RESTRICTED BANDS

Applicable Standard

FCC §15.407 (b); §15.209; §15.205;

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

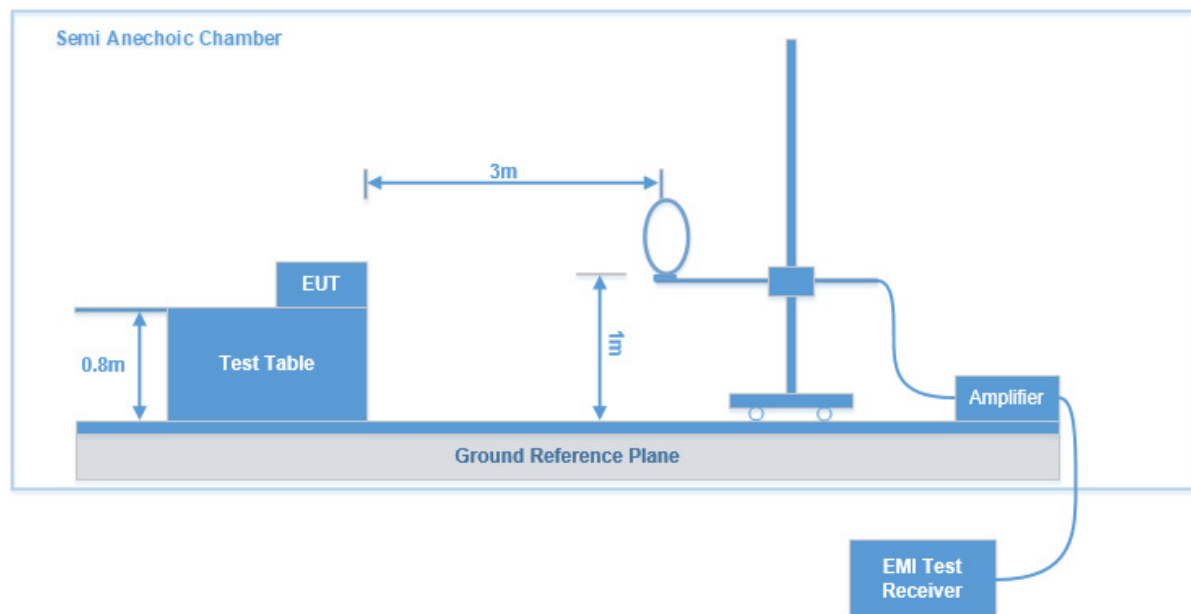
(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the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

As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000MHz shall be performed using a minimum resolution bandwidth of 1MHz.

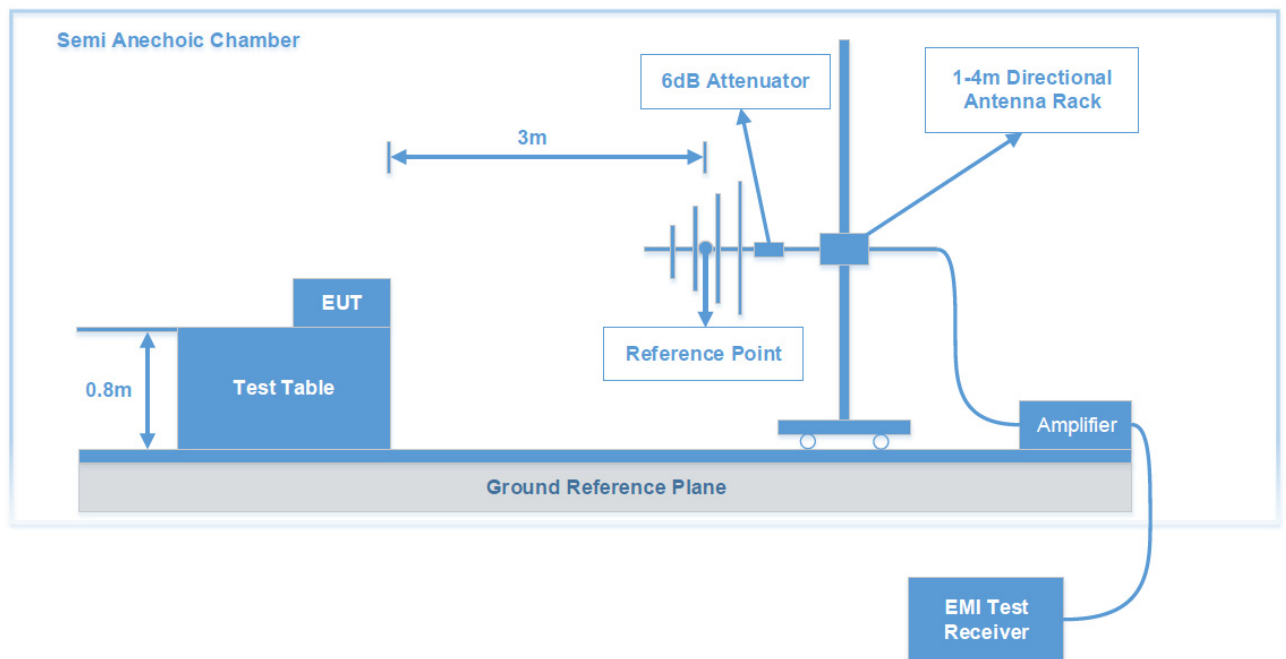
According to 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: $E [\text{dB}\mu\text{V/m}] = \text{EIRP} [\text{dBm}] + 95.2$, for $d = 3$ meters.

Test System Setup

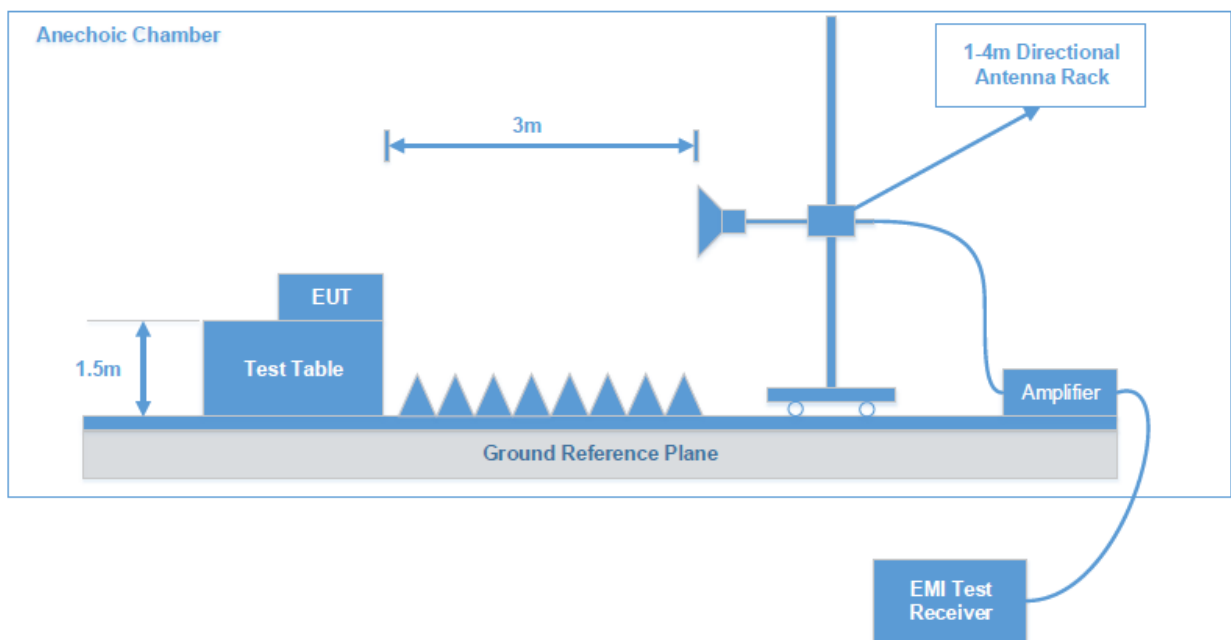
9kHz–30 MHz:



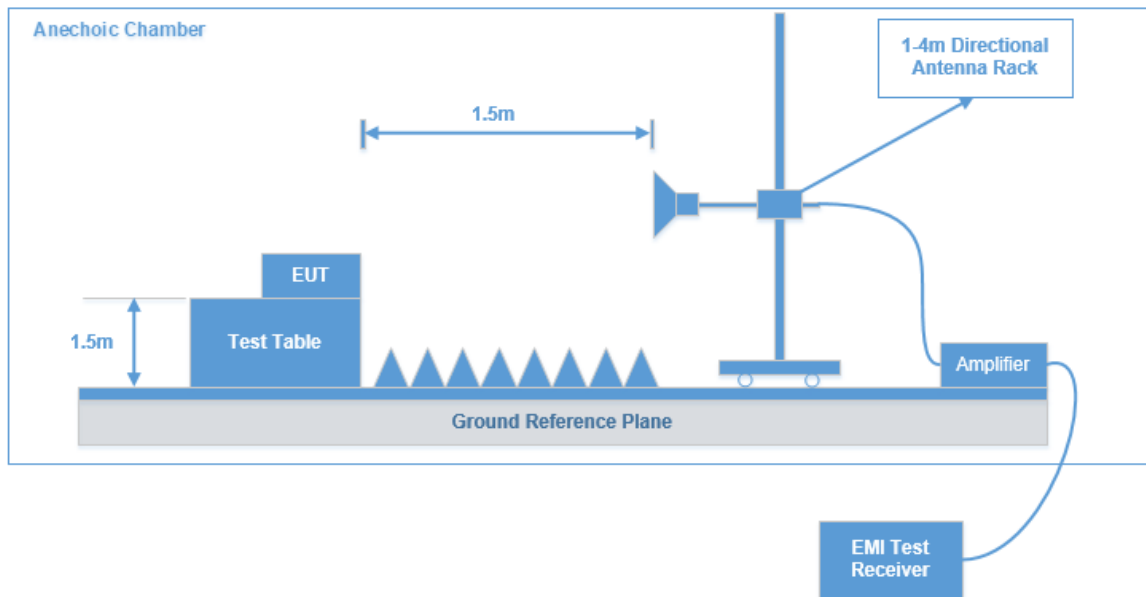
30MHz-1GHz:



1 GHz-18GHz:



18-40GHz:



The radiated emission tests were performed in the 3 meters test site for below 18GHz and 1.5m for 18-40 GHz, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.407 limits. The limit at 1.5m for 18-40 GHz is 80dB μ V/m (Peak) and 60dB μ V/m (Average)

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver Setup was set with the following configurations:

Frequency Range	RBW	VBW	IF B/W	Measurement
9 kHz - 150 kHz	200 Hz	1 kHz	200 Hz	QP/Average
150 kHz - 30 MHz	9 kHz	30 kHz	9 kHz	QP/ Average
30 MHz - 1000 MHz	100 kHz	300 kHz	/	Peak
	/	/	120 kHz	QP
Above 1GHz	1MHz	3 MHz	/	Peak
	1MHz	3 MHz	/	Average

For 9 kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

Test Procedure

During the radiated emission test, the adapter was connected to AC floor outlet. Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

If the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 6 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude (dBμV/m) = Meter Reading (dBμV) + Corrected factor (dB/m)

Corrected factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Test Data: See Appendix

FCC §15.407(a) & §15.407(e)–EMISSION BANDWIDTH

Applicable Standard

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

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

Test Procedure

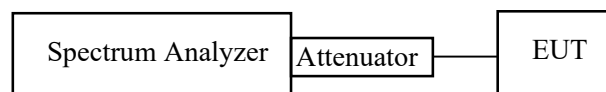
1. Emission Bandwidth (EBW)

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

2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

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



Test Data: See Appendix

FCC §15.407(a) – CONDUCTED TRANSMITTER OUTPUT POWER

Applicable Standard

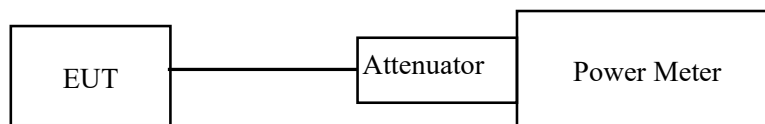
For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.



Test Data: See Appendix

FCC §15.407(a) - POWER SPECTRAL DENSITY

Applicable Standard

For 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 provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

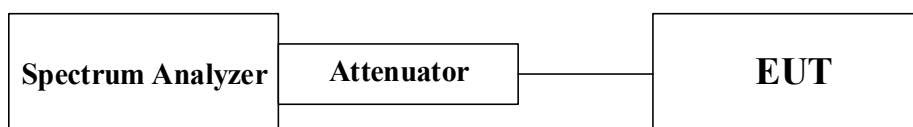
Test Procedure

The measurements are base on C63.10:2013

Duty cycle $\geq 98\%$,Method SA-1 should be applied.

Duty cycle $< 98\%$, duty cycle variations are less than $\pm 2\%$,Method SA-2 should be applied.

Duty cycle $< 98\%$, duty cycle variations exceed $\pm 2\%$,Method SA-3 should be applied.



Test Data: See Appendix

EUT PHOTOGRAPHS

Please refer to the attachment EXHIBIT A - EUT EXTERNAL PHOTOGRAPHS and EXHIBIT B - INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment EXHIBIT D - TEST SETUP PHOTOGRAPHS.

APPENDIX - TEST DATA

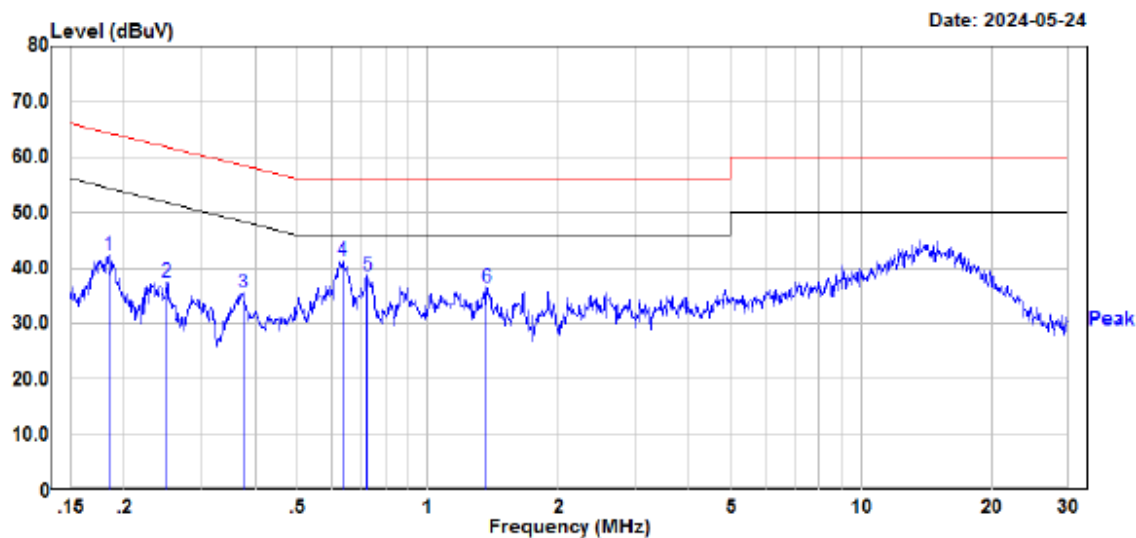
Environmental Conditions & Test Information

Test Item:	CONDUCTED EMISSIONS	UNWANTED EMISSIONS & RESTRICTED FREQUENCY BANDS				
		9 kHz-30 MHz	30 MHz-1GHz	1 GHz-18 GHz		18 GHz-40 GHz
Test Date:	2024-05-24	2024-11-09	2024-05-16	2024-04-26	2024-04-29	2024-06-03
Temperature:	24.4 °C	22.4 °C	21.3 °C	16.7 °C	20.3 °C	24.1 °C
Relative Humidity:	57 %	47 %	48 %	47 %	51 %	53 %
ATM Pressure:	101.2 kPa	102.3 kPa	101.9 kPa	100.7 kPa	102.2 kPa	100.9 kPa
Test Result:	Pass	Pass	Pass	Pass	Pass	Pass
Test Engineer:	Frank Liu	Jerry Yan	Leah Li	Peter Wang	Peter Wang	Hugh Wu

Test Item:	Emission Bandwidth	Conducted Transmitter Output Power	Power Spectral Density	Duty cycle
Test Date:	2024-05-16 to 2024-05-17	2024-05-16 to 2024-05-17	2024-05-16 to 2024-05-17	2024-05-16 to 2024-05-17
Temperature:	21.3-22.3 °C	21.3-22.3 °C	21.3-22.3 °C	21.3-22.3 °C
Relative Humidity:	41-48 %	41-48 %	41-48 %	41-48 %
ATM Pressure:	101.0-101.9kPa	101.0-101.9kPa	101.0-101.9kPa	101.0-101.9kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Loki Shi	Loki Shi	Loki Shi	Loki Shi

EUT operation mode: Transmitting in 802.11a mode 5720MHz (maximum output power)

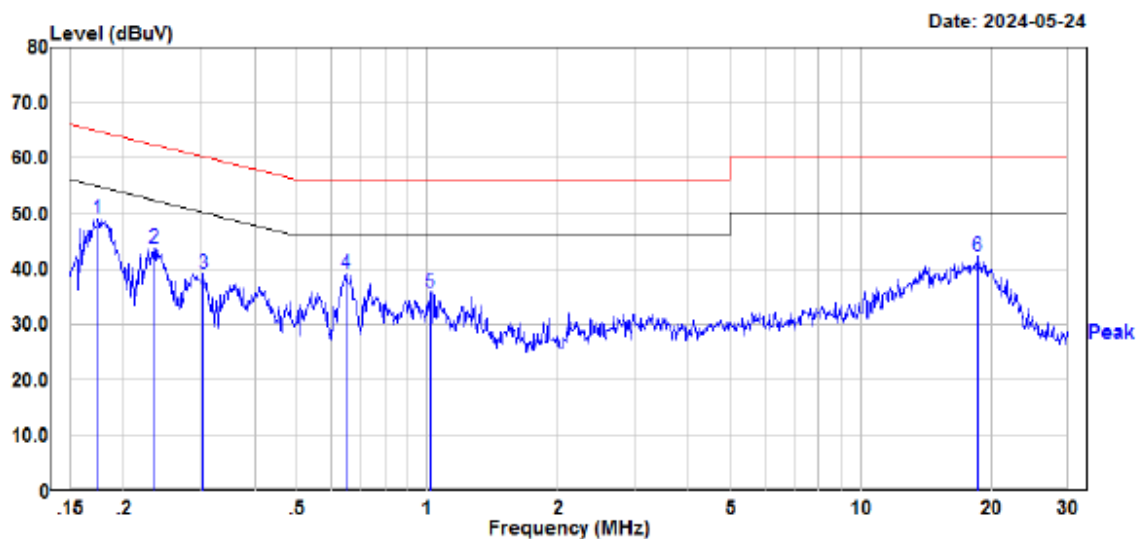
AC 120V/60 Hz, Line



Site : CE
Condition : FCC Part 15.207
: DET:Peak
Project No. : RKSA240319001
Model : F360
Phase : L
Voltage : 120V/60Hz
Mode : Transmitting in 802.11a mode
Test Equipment : ENV216,ESR
Temperature : 24.4℃
Humidity : 57%
Atmospheric pressure: 101.2kPa
Test Engineer : Frank Liu

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.184	22.31	20.11	42.42	64.30	-21.88	Peak
2	0.249	17.32	20.14	37.46	61.78	-24.32	Peak
3	0.375	15.31	20.19	35.50	58.38	-22.88	Peak
4	0.637	21.18	20.09	41.27	56.00	-14.73	Peak
5	0.725	18.73	20.04	38.77	56.00	-17.23	Peak
6	1.365	16.64	19.91	36.55	56.00	-19.45	Peak

AC 120V/60 Hz, Neutral

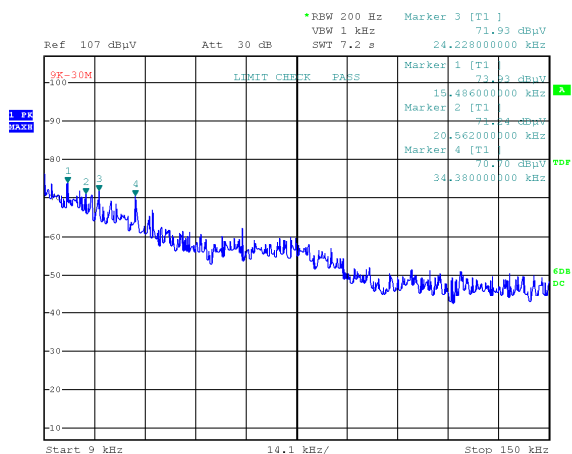
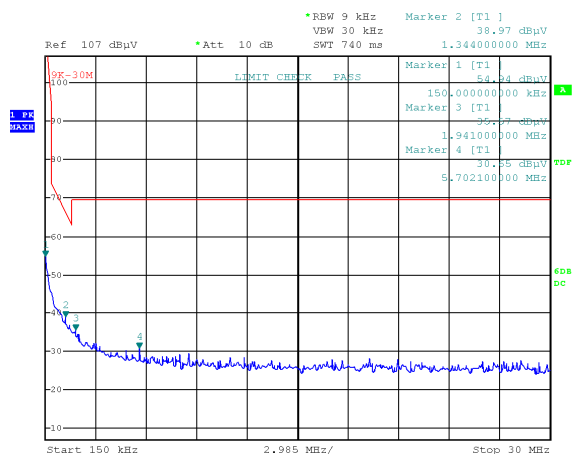


Site : CE
Condition : FCC Part 15.207
DET:Peak
Project No. : RKSA240319001
Model : F360
Phase : N
Voltage : 120V/60Hz
Mode : Transmitting in 802.11a mode
Test Equipment : ENV216,ESR
Temperature : 24.4°C
Humidity : 57%
Atmospheric pressure: 101.2kPa
Test Engineer : Frank Liu

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBUV	dB	dBUV	dBUV	dB	
1	0.173	29.06	20.11	49.17	64.80	-15.63	Peak
2	0.235	23.66	20.13	43.79	62.27	-18.48	Peak
3	0.304	19.10	20.17	39.27	60.12	-20.85	Peak
4	0.649	19.12	20.08	39.20	56.00	-16.80	Peak
5	1.017	15.98	19.73	35.71	56.00	-20.29	Peak
6	18.591	22.57	19.73	42.30	60.00	-17.70	Peak

Transmitter Unwanted Emissions & Restricted frequency bands

After pre-scan in the X, Y and Z axes of orientation, the worst case in the Y axes of orientation is below:

9 kHz-30 MHz: Transmitting in 802.11a mode 5720MHz (maximum output power)**Parallel(worst case)****9kHz-150kHz****150kHz-30MHz**

Project No.RKSA240319001
Date: 9.NOV.2024 13:28:38

Tester:Jerry Yan

Project No.RKSA240319001
Date: 9.NOV.2024 14:14:12

Tester:Jerry Yan

9kHz-150kHz

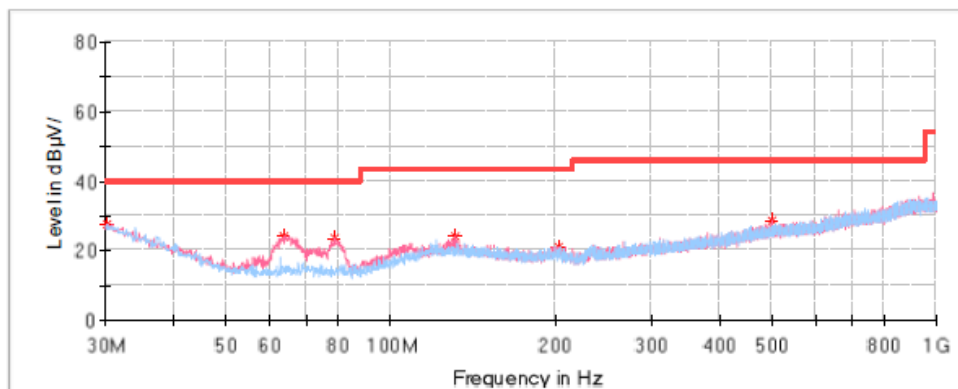
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.015486	73.93	PK	52.87	123.81	49.88
0.020562	71.24	PK	49.84	121.34	50.10
0.024228	71.93	PK	48.82	119.92	47.99
0.03438	70.7	PK	46.06	116.88	46.18

150kHz-30MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.15000	54.94	PK	50.90	104.08	49.14
1.34400	38.97	PK	5.87	65.04	26.07
1.94100	35.57	PK	13.63	69.54	33.97
5.70210	30.65	PK	7.53	69.54	38.89

30MHz-1GHz: Transmitting in 802.11a mode 5720MHz (maximum output power)**Common Information**

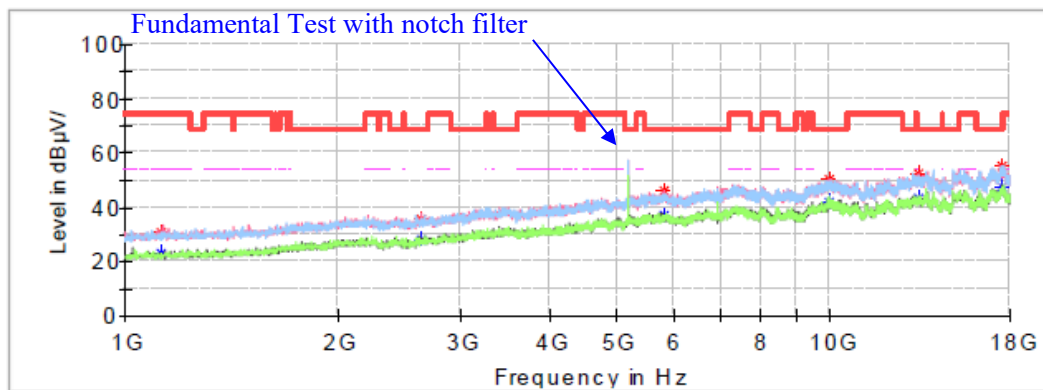
Project No: RKSA240319001
EUT Model: F360
Test Mode: Transmitting in 802.11a mode
Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Equipment: ESCI, JB3, 310N
Temperature: 21.3°C
Humidity: 48%
Barometric Pressure: 101.9kPa
Test Engineer: Leah Li
Test Date: 2024/5/16

**Critical Freqs**

Frequency (MHz)	Corrected Amplitude QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.242500	27.86	40.00	12.14	H	-4.6
63.707500	24.15	40.00	15.85	V	-17.2
78.621250	23.52	40.00	16.48	V	-17.5
131.001250	24.10	43.50	19.40	V	-11.4
202.660000	21.35	43.50	22.15	V	-12.7
497.903750	28.67	46.00	17.33	V	-5.8

1GHz-18GHz(5150-5250MHz Band):**802.11a Mode:****Low Channel: 5180MHz****Common Information**

Project No.:	RKSA240319001
Test Mode:	Transmitting in 802.11a mode low channel
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Engineer:	Peter Wang

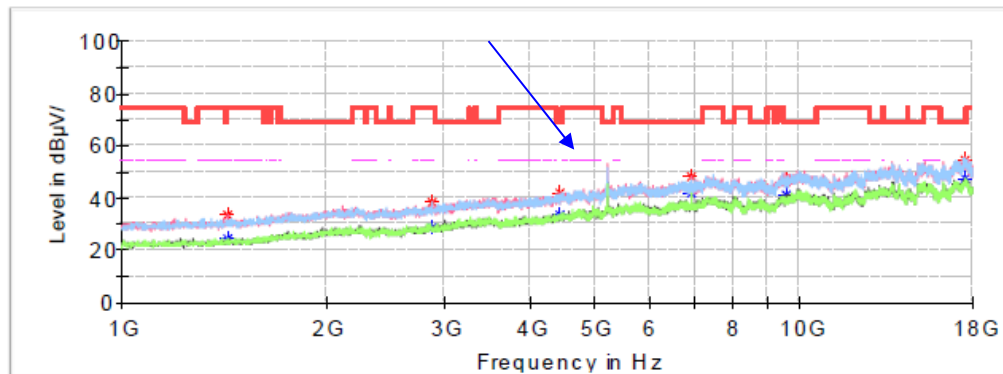
Full Spectrum**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1125.800000	---	22.92	54.00	31.08	H	-15.1
1125.800000	30.55	---	74.00	43.45	H	-15.1
2623.500000	35.94	---	68.20	32.26	H	-9.3
5804.200000	46.22	---	68.20	21.98	V	0.4
9987.900000	50.01	---	68.20	18.19	V	7.8
13370.900000	---	43.36	54.00	10.64	H	10.5
13370.900000	52.68	---	74.00	21.32	V	10.5
17547.800000	54.93	---	68.20	13.27	V	13.4

Middle Channel: 5200MHz**Common Information**

Project No.: RKSA240319001
Test Mode: Transmitting in 802.11a mode middle channel
Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Engineer: Peter Wang

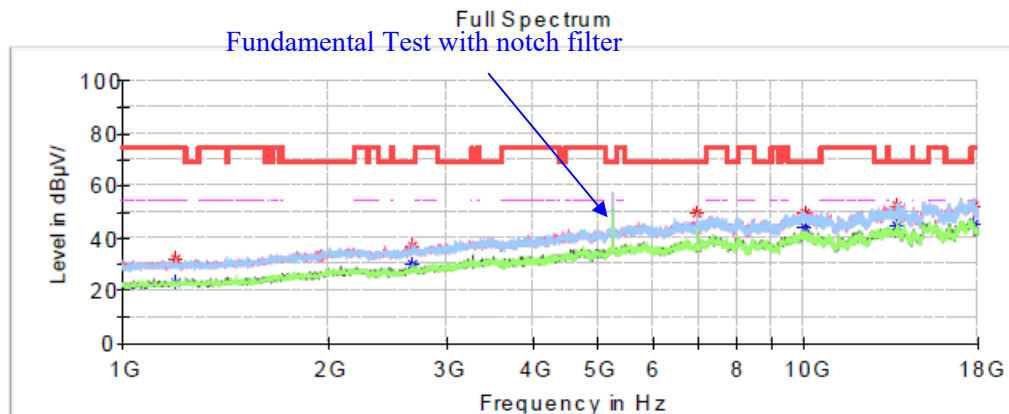
Fundamental Test with notch filter

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1433.500000	33.36	---	68.20	34.84	V	-14.1
2875.100000	---	28.69	54.00	25.31	V	-8.5
2875.100000	38.78	---	74.00	35.22	V	-8.5
4425.500000	42.23	---	68.20	25.97	H	-4.0
6933.000000	48.36	---	68.20	19.84	H	3.4
9545.900000	46.85	---	68.20	21.35	V	6.4
17542.700000	54.77	---	68.20	13.43	V	13.4

High Channel: 5240MHz**Common Information**

Project No.: RKSA240319001
Test Mode: Transmitting in 802.11a mode high channel
Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Engineer: Peter Wang

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1198.900000	---	23.28	54.00	30.72	H	-14.9
1198.900000	32.46	---	74.00	41.54	H	-14.9
2660.900000	36.76	---	68.20	31.44	H	-9.2
6985.700000	49.54	---	68.20	18.66	V	3.7
10040.600000	49.59	---	68.20	18.61	V	7.8
13741.500000	52.62	---	68.20	15.58	H	10.8
17750.100000	---	45.65	54.00	8.35	V	12.6
17750.100000	52.19	---	74.00	21.81	V	12.6

802.11ac20 Mode:

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
Low Channel: 5180MHz						
1102.000000	---	22.24	54.00	31.76	V	-15.2
1102.000000	32.52	---	74.00	41.48	V	-15.2
2349.800000	---	28.93	54.00	25.07	V	-10.0
2349.800000	34.07	---	74.00	39.93	V	-10.0
6905.800000	46.66	---	68.20	21.54	H	3.2
9996.400000	48.19	---	68.20	20.01	H	7.8
13722.800000	51.20	---	68.20	17.00	H	10.8
17648.100000	55.10	---	68.20	13.10	H	13.0
Middle Channel: 5200MHz						
1153.000000	---	24.45	54.00	29.55	V	-15.0
1153.000000	30.09	---	74.00	43.91	V	-15.0
2946.500000	36.57	---	68.20	31.63	H	-8.2
6933.000000	47.13	---	68.20	21.07	H	3.4
9981.100000	49.74	---	68.20	18.46	V	7.8
13680.300000	52.49	---	68.20	15.71	H	10.8
17541.000000	55.28	---	68.20	12.92	H	13.4
High Channel: 5240MHz						
1338.300000	---	23.78	54.00	30.22	V	-14.4
1338.300000	31.44	---	74.00	42.56	V	-14.4
3689.400000	---	33.04	54.00	20.96	V	-5.7
3689.400000	41.13	---	74.00	32.87	V	-5.7
6919.400000	49.79	---	68.20	18.41	H	3.3
10120.500000	49.91	---	68.20	18.29	H	7.7
13680.300000	52.98	---	68.20	15.22	H	10.8
17636.200000	55.19	---	68.20	13.01	H	13.1

802.11ac40 Mode:

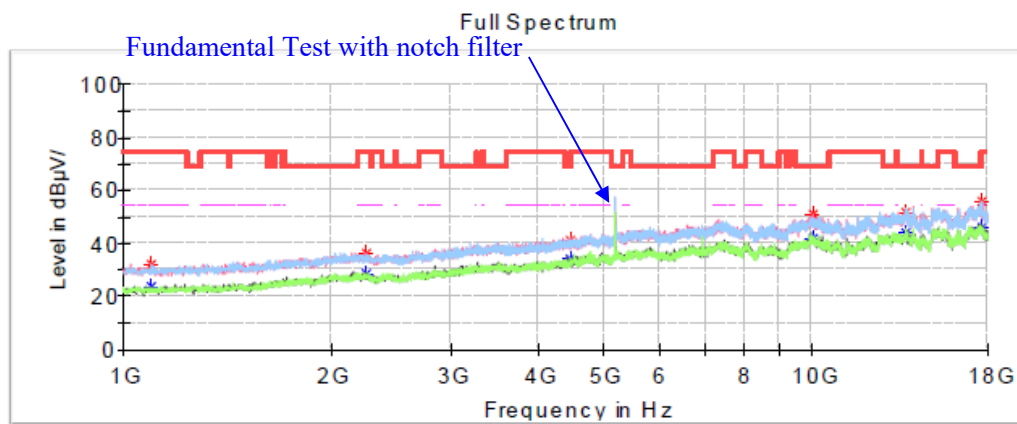
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
Low Channel: 5190MHz						
1224.400000	---	24.75	54.00	29.25	V	-14.8
1224.400000	29.16	---	74.00	44.84	V	-14.8
2822.400000	---	28.46	54.00	25.54	V	-8.6
2822.400000	38.07	---	74.00	35.93	V	-8.6
6919.400000	47.69	---	68.20	20.51	H	3.3
10193.600000	46.54	---	68.20	21.66	H	7.6
13719.400000	52.58	---	68.20	15.62	H	10.8
17505.300000	55.46	---	68.20	12.74	H	13.6
High Channel: 5230MHz						
1289.000000	32.32	---	68.20	35.88	H	-14.6
2621.800000	37.05	---	68.20	31.15	H	-9.3
4367.700000	---	32.81	54.00	21.19	V	-4.1
4367.700000	42.59	---	74.00	31.41	V	-4.1
6972.100000	48.92	---	68.20	19.28	H	3.6
13275.700000	---	42.57	54.00	11.43	V	10.1
13275.700000	51.79	---	74.00	22.21	V	10.1
17058.200000	55.14	---	68.20	13.06	H	12.5

802.11ac80 Mode:

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5210MHz						
1144.500000	---	23.04	54.00	30.96	H	-15.1
1144.500000	28.64	---	74.00	45.36	H	-15.1
2399.100000	36.80	---	68.20	31.40	H	-9.9
4780.800000	---	34.81	54.00	19.19	H	-2.3
4780.800000	43.81	---	74.00	30.19	H	-2.3
6946.600000	52.24	---	68.20	15.96	H	3.5
9923.300000	50.81	---	68.20	17.39	H	7.6
13676.900000	53.31	---	68.20	14.89	H	10.8

1GHz-18GHz(5250-5350MHz Band):**802.11a Mode:****Low Channel: 5260MHz****Common Information**

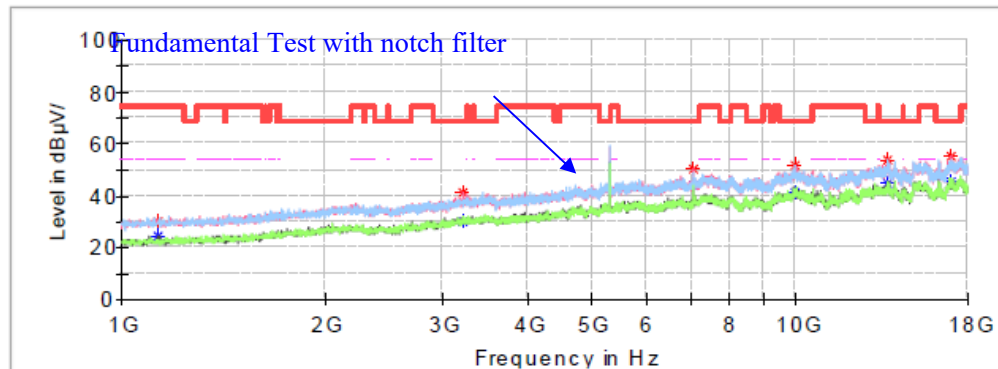
Project No.:	RKSA240319001
Test Mode:	Transmitting in 802.11a mode low channel
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Engineer:	Peter Wang

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1098.600000	---	24.12	54.00	29.88	V	-15.2
1098.600000	32.49	---	74.00	41.51	V	-15.2
2247.800000	---	28.50	54.00	25.50	V	-10.2
2247.800000	36.70	---	74.00	37.30	V	-10.2
4461.200000	41.24	---	68.20	26.96	H	-3.9
10050.800000	51.16	---	68.20	17.04	V	7.8
13704.100000	52.05	---	68.20	16.15	H	10.8
17653.200000	55.71	---	68.20	12.49	H	13.0

Middle Channel: 5280MHz**Common Information**

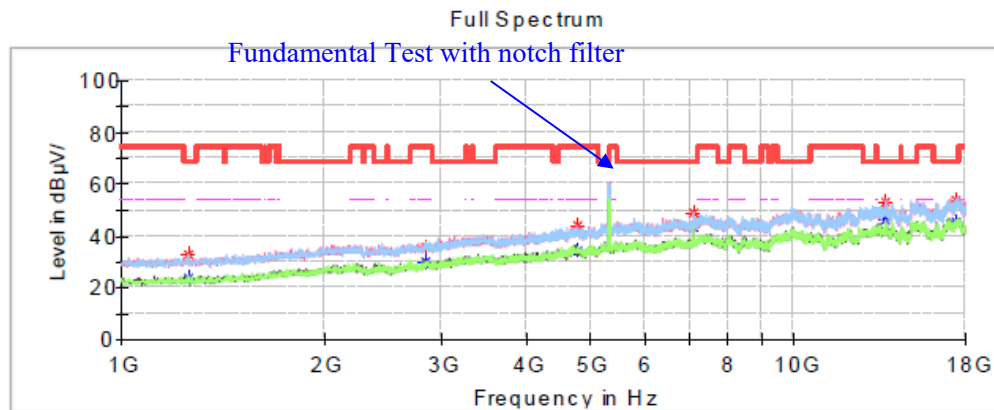
Project No.: RKSA240319001
Test Mode: Transmitting in 802.11a mode middle channel
Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Engineer: Peter Wang

Full Spectrum**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1129.200000	---	24.65	54.00	29.35	V	-15.1
1129.200000	30.21	---	74.00	43.79	V	-15.1
3215.100000	40.95	---	68.20	27.25	V	-7.2
7065.600000	50.64	---	68.20	17.56	V	3.8
9987.900000	52.01	---	68.20	16.19	H	7.8
13690.500000	53.81	---	68.20	14.39	H	10.8
17048.000000	55.14	---	68.20	13.06	H	12.5

High Channel: 5320MHz**Common Information**

Project No.: RKSA240319001
Test Mode: Transmitting in 802.11a mode high channel
Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Engineer: Peter Wang

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1255.000000	32.60	---	68.20	35.60	H	-14.7
2830.900000	---	30.10	54.00	23.90	H	-8.6
2830.900000	35.68	---	74.00	38.32	H	-8.6
4780.800000	---	34.37	54.00	19.63	V	-2.3
4780.800000	44.29	---	74.00	29.71	V	-2.3
7092.800000	48.99	---	68.20	19.21	H	3.9
13676.900000	53.01	---	68.20	15.19	H	10.8
17503.600000	53.63	---	68.20	14.57	H	13.6

802.11ac20 Mode:

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
Low Channel: 5260MHz						
1088.400000	---	22.41	54.00	31.59	V	-15.2
1088.400000	30.01	---	74.00	43.99	V	-15.2
2414.400000	35.26	---	68.20	32.94	H	-9.9
4544.500000	---	33.87	54.00	20.13	H	-3.6
4544.500000	41.01	---	74.00	32.99	H	-3.6
7012.900000	48.29	---	68.20	19.91	H	3.8
11206.800000	---	39.94	54.00	14.06	V	6.7
11206.800000	48.41	---	74.00	25.59	V	6.7
14921.300000	50.57	---	68.20	17.63	H	9.8
Middle Channel: 5280MHz						
1112.200000	---	23.27	54.00	30.73	V	-15.2
1112.200000	29.88	---	74.00	44.12	V	-15.2
2528.300000	35.55	---	68.20	32.65	H	-9.7
4653.300000	---	33.98	54.00	20.02	V	-3.0
4653.300000	42.55	---	74.00	31.45	V	-3.0
7065.600000	48.90	---	68.20	19.30	H	3.8
13736.400000	52.48	---	68.20	15.72	H	10.8
17646.400000	53.70	---	68.20	14.50	H	13.0
High Channel: 5320MHz						
1175.100000	---	23.34	54.00	30.66	V	-15.0
1175.100000	29.34	---	74.00	44.66	V	-15.0
3174.300000	37.30	---	68.20	30.90	H	-7.4
7092.800000	49.99	---	68.20	18.21	H	3.9
10314.300000	50.14	---	68.20	18.06	V	7.5
13678.600000	52.41	---	68.20	15.79	H	10.8
17051.400000	54.55	---	68.20	13.65	H	12.5

802.11ac40 Mode:

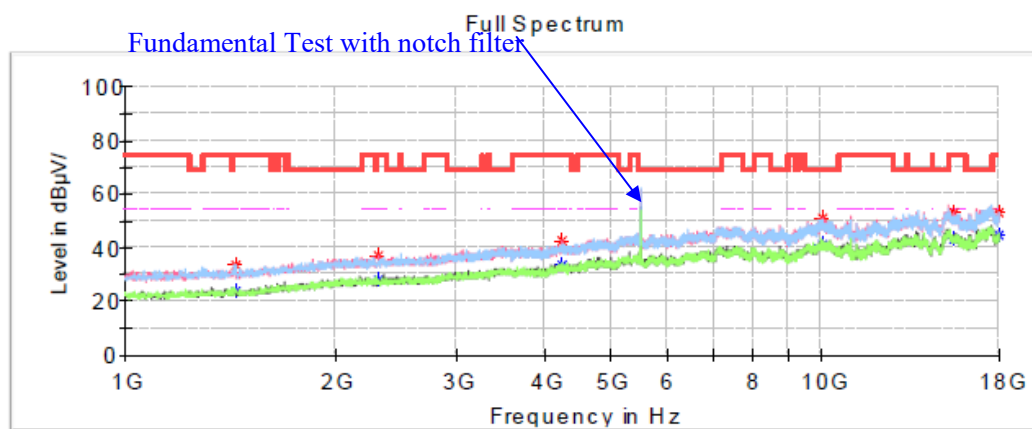
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
Low Channel: 5270MHz						
1079.900000	---	23.72	54.00	30.28	V	-15.3
1079.900000	31.23	---	74.00	42.77	V	-15.3
1834.700000	34.77	---	68.20	33.43	H	-11.7
4789.300000	---	34.11	54.00	19.89	H	-2.3
4789.300000	43.71	---	74.00	30.29	H	-2.3
7026.500000	48.79	---	68.20	19.41	H	3.8
12061.900000	---	41.43	54.00	12.57	V	7.0
12061.900000	51.34	---	74.00	22.66	V	7.0
17486.600000	54.37	---	68.20	13.83	H	13.6
High Channel: 5310MHz						
1171.700000	---	22.76	54.00	31.24	V	-15.0
1171.700000	31.08	---	74.00	42.92	V	-15.0
2312.400000	---	27.35	54.00	26.65	H	-10.1
2312.400000	36.93	---	74.00	37.07	H	-10.1
4658.400000	---	35.55	54.00	18.45	V	-3.0
4658.400000	42.13	---	74.00	31.87	V	-3.0
7079.200000	51.08	---	68.20	17.12	H	3.9
13685.400000	52.03	---	68.20	16.17	H	10.8
17029.300000	54.67	---	68.20	13.53	H	12.4

802.11ac80 Mode:

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5290MHz						
1149.600000	---	22.84	54.00	31.16	V	-15.0
1149.600000	30.66	---	74.00	43.34	V	-15.0
2655.800000	38.05	---	68.20	30.15	H	-9.2
4551.300000	---	34.65	54.00	19.35	V	-3.5
4551.300000	41.46	---	74.00	32.54	V	-3.5
7052.000000	47.59	---	68.20	20.61	H	3.8
9998.100000	51.12	---	68.20	17.08	H	7.8
13676.900000	53.50	---	68.20	14.70	H	10.8

1GHz-18GHz(5470-5725MHz Band):**802.11a Mode:****Low Channel: 5500MHz****Common Information**

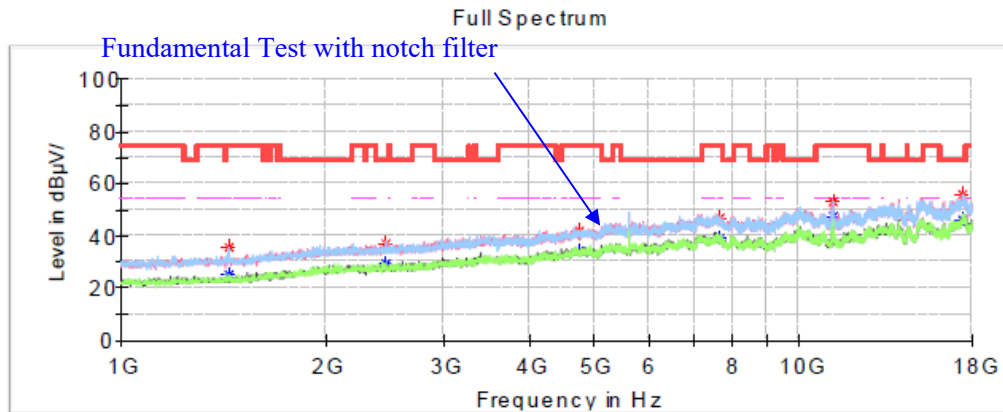
Project No.:	RKSA240319001
Test Mode:	Transmitting in 802.11a mode low channel
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Engineer:	Peter Wang

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1443.700000	33.81	---	74.00	40.19	H	-14.1
1443.700000	---	24.12	54.00	29.88	H	-14.1
2310.700000	37.12	---	74.00	36.88	V	-10.1
2310.700000	---	27.98	54.00	26.02	H	-10.1
4236.800000	42.46	---	74.00	31.54	V	-4.5
4236.800000	---	33.33	54.00	20.67	H	-4.5
10042.300000	51.29	---	68.20	16.91	V	7.8
15495.900000	---	43.53	54.00	10.47	V	11.7
15495.900000	53.22	---	74.00	20.78	V	11.7
17979.600000	---	44.41	54.00	9.59	V	11.6
17979.600000	53.34	---	74.00	20.66	H	11.6

Middle Channel: 5580MHz**Common Information**

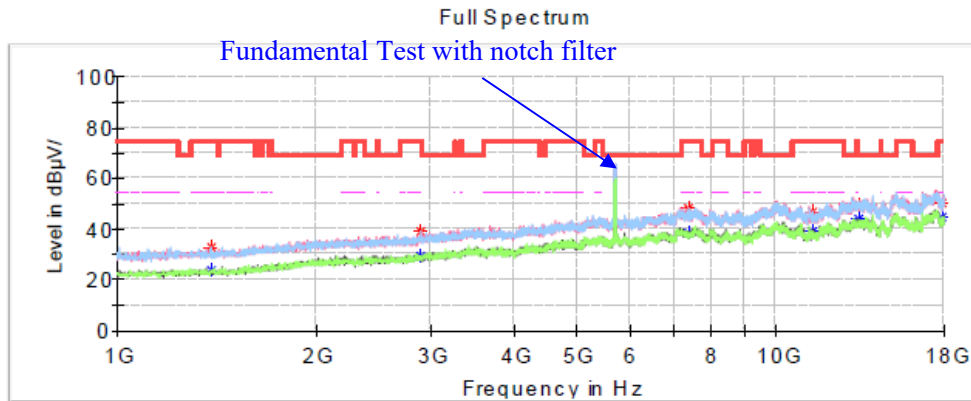
Project No.: RKSA240319001
Test Mode: Transmitting in 802.11a mode middle channel
Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Engineer: Peter Wang

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1438.600000	---	24.91	54.00	29.09	H	-14.1
1438.600000	35.47	---	74.00	38.53	H	-14.1
2463.700000	37.29	---	68.20	30.91	H	-9.8
4751.900000	---	34.26	54.00	19.74	V	-2.5
4751.900000	42.21	---	74.00	31.79	V	-2.5
7657.200000	---	39.10	54.00	14.90	V	4.1
7657.200000	46.75	---	74.00	27.25	V	4.1
11201.700000	---	47.59	54.00	6.41	V	6.7
11201.700000	53.41	---	74.00	20.59	V	6.7
17430.500000	55.78	---	68.20	12.42	H	13.4

High Channel: 5700MHz**Common Information**

Project No.: RKSA240319001
Test Mode: Transmitting in 802.11a mode high channel
Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Engineer: Peter Wang

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µV/m)	Average (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Pol	Corr. (dB/m)
1385.900000	---	23.68	54.00	30.32	H	-14.3
1385.900000	32.98	---	74.00	41.02	H	-14.3
2887.000000	---	29.60	54.00	24.40	H	-8.4
2887.000000	38.88	---	74.00	35.12	H	-8.4
7354.600000	---	38.45	54.00	15.55	V	4.1
7354.600000	48.31	---	74.00	25.69	V	4.1
11400.600000	46.60	---	74.00	27.40	H	7.1
11400.600000	---	39.07	54.00	14.93	H	7.1
13398.100000	49.35	---	74.00	24.65	V	10.6
13398.100000	---	44.05	54.00	9.95	V	10.6
17932.000000	50.38	---	74.00	23.62	V	11.8
17932.000000	---	44.62	54.00	9.38	V	11.8

802.11ac20 Mode:

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
Low Channel: 5500MHz						
1436.900000	---	24.25	54.00	29.75	V	-14.1
1436.900000	34.07	---	74.00	39.93	V	-14.1
2725.500000	---	28.39	54.00	25.61	H	-9.0
2725.500000	36.99	---	74.00	37.01	H	-9.0
4823.300000	---	36.47	54.00	17.53	H	-2.1
4823.300000	42.77	---	74.00	31.23	H	-2.1
7998.900000	45.94	---	68.20	22.26	H	3.8
13343.700000	48.05	---	74.00	25.95	H	10.4
13343.700000	---	43.33	54.00	10.67	H	10.4
17996.600000	---	45.52	54.00	8.48	V	11.5
17996.600000	53.51	---	74.00	20.49	V	11.5
Middle Channel: 5580MHz						
1435.200000	---	23.04	54.00	30.96	V	-14.1
1435.200000	32.44	---	74.00	41.56	V	-14.1
2434.800000	37.55	---	68.20	30.65	H	-9.9
4306.500000	---	32.43	54.00	21.57	H	-4.3
4306.500000	40.09	---	74.00	33.91	H	-4.3
8814.900000	45.22	---	68.20	22.98	H	3.7
11206.800000	51.44	---	74.00	22.56	V	6.7
11206.800000	---	45.29	54.00	8.71	V	6.7
17500.200000	55.70	---	68.20	12.50	H	13.6
High Channel: 5700MHz						
1423.300000	32.57	---	74.00	41.43	V	-14.2
1423.300000	---	23.19	54.00	30.81	V	-14.2
2844.500000	36.74	---	74.00	37.26	H	-8.6
2844.500000	---	29.03	54.00	24.97	H	-8.6
5180.300000	43.40	---	68.20	24.80	H	-0.5
11201.700000	47.14	---	74.00	26.86	H	6.7
11201.700000	---	40.59	54.00	13.41	H	6.7
14492.900000	49.00	---	74.00	25.00	V	8.2
14492.900000	---	42.78	54.00	11.22	V	8.2
17605.600000	54.32	---	68.20	13.88	H	13.2

802.11ac40 Mode:

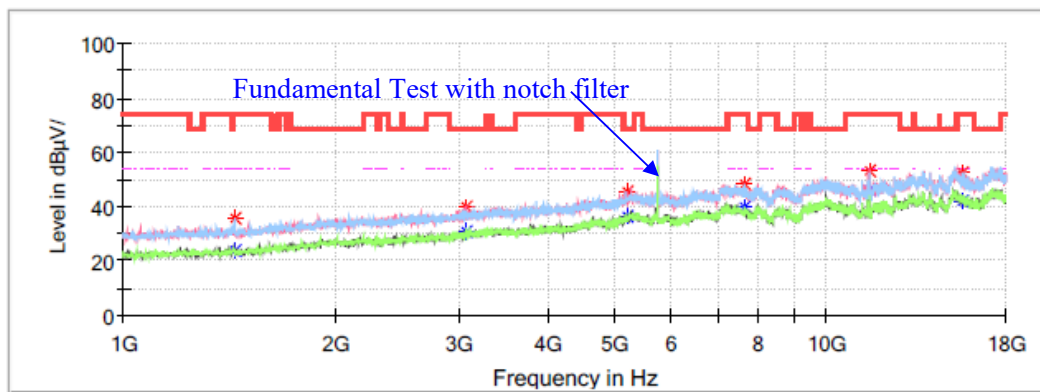
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
Low Channel: 5510MHz						
1368.900000	32.30	---	74.00	41.70	V	-14.3
1368.900000	---	23.65	54.00	30.35	V	-14.3
2932.900000	39.38	---	68.20	28.82	H	-8.3
4913.400000	---	35.16	54.00	18.84	H	-1.7
4913.400000	42.96	---	74.00	31.04	H	-1.7
7133.600000	47.68	---	68.20	20.52	H	3.9
11213.600000	47.81	---	74.00	26.19	H	6.7
11213.600000	---	38.67	54.00	15.33	H	6.7
14489.500000	49.79	---	74.00	24.21	V	8.2
14489.500000	---	43.64	54.00	10.36	V	8.2
Middle Channel: 5550MHz						
1401.200000	31.89	---	74.00	42.11	V	-14.2
1401.200000	---	23.22	54.00	30.78	V	-14.2
2152.600000	37.38	---	68.20	30.82	H	-10.3
4383.000000	41.97	---	74.00	32.03	H	-4.1
4383.000000	---	31.96	54.00	22.04	H	-4.1
7954.700000	48.24	---	68.20	19.96	H	3.9
13352.200000	---	43.22	54.00	10.78	V	10.4
13352.200000	49.19	---	74.00	24.81	V	10.4
17585.200000	53.37	---	68.20	14.83	H	13.3
High Channel: 5670MHz						
1171.700000	30.98	---	74.00	43.02	V	-15.0
1171.700000	---	22.79	54.00	31.21	V	-15.0
2599.700000	37.69	---	68.20	30.51	H	-9.4
4945.700000	42.59	---	74.00	31.41	H	-1.5
4945.700000	---	33.45	54.00	20.55	H	-1.5
10399.300000	46.94	---	68.20	21.26	H	7.4
13386.200000	49.52	---	74.00	24.48	V	10.6
13386.200000	---	43.59	54.00	10.41	V	10.6
17410.100000	54.54	---	68.20	13.66	H	13.4

802.11ac80 Mode:

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
Low Channel: 5530MHz						
1436.900000	---	25.56	54.00	28.44	V	-14.1
1436.900000	34.84	---	74.00	39.16	V	-14.1
2659.200000	37.59	---	68.20	30.61	H	-9.2
4700.900000	41.49	---	74.00	32.51	H	-2.8
4700.900000	---	36.86	54.00	17.14	H	-2.8
7716.700000	---	39.11	54.00	14.89	H	4.0
7716.700000	47.35	---	74.00	26.65	H	4.0
14489.500000	---	43.46	54.00	10.54	V	8.2
14489.500000	48.52	---	74.00	25.48	V	8.2
17415.200000	55.30	---	68.20	12.90	H	13.4
High Channel: 5610MHz						
1370.600000	31.86	---	74.00	42.14	V	-14.3
1370.600000	---	22.54	54.00	31.46	V	-14.3
2419.500000	38.65	---	68.20	29.55	H	-9.9
4925.300000	42.92	---	74.00	31.08	H	-1.6
4925.300000	---	33.95	54.00	20.05	H	-1.6
9998.100000	51.26	---	68.20	16.94	H	7.8
14487.800000	49.25	---	74.00	24.75	V	8.2
14487.800000	---	43.33	54.00	10.67	V	8.2
17486.600000	55.90	---	68.20	12.30	H	13.6
Cross Channel: 5690MHz						
1205.700000	33.73	---	74.00	40.27	V	-14.9
1205.700000	---	24.49	54.00	29.51	V	-14.9
2186.600000	35.92	---	68.20	32.28	H	-10.3
4223.200000	43.48	---	74.00	30.52	H	-4.5
4223.200000	---	32.39	54.00	21.61	H	-4.5
7966.600000	47.58	---	68.20	20.62	H	3.8
11201.700000	49.10	---	74.00	24.90	V	6.7
11201.700000	---	42.65	54.00	11.35	V	6.7
15239.200000	55.04	---	68.20	13.16	H	10.9

1GHz-18GHz(5725-5850MHz Band):**802.11a Mode:****Low Channel: 5745MHz****Common Information**

Project No.:	RKSA240319001
Test Mode:	Transmitting in 802.11a mode low channel
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Engineer:	Peter Wang

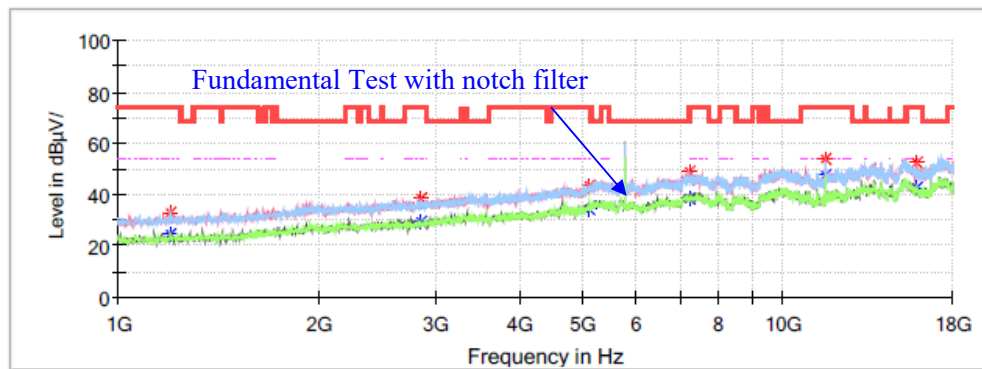
Full Spectrum**Critical Freqs**

Frequency (MHz)	MaxPeak (dBμ V/m)	Average (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1438.600000	35.70	---	74.00	38.30	H	-14.1
1438.600000	---	23.83	54.00	30.17	H	-14.1
3063.800000	39.99	---	68.20	28.21	V	-7.8
5210.900000	45.80	---	68.20	22.40	V	-0.3
7640.200000	---	40.03	54.00	13.97	H	4.1
7640.200000	48.55	---	74.00	25.45	H	4.1
11490.700000	53.20	---	74.00	20.80	V	7.3
11490.700000	---	46.24	54.00	7.76	V	7.3
15625.100000	---	41.87	54.00	12.13	H	11.0
15625.100000	52.32	---	74.00	21.68	H	11.0

Middle Channel: 5785MHz**Common Information**

Project No.: RKSA240319001
 Test Mode: Transmitting in 802.11a mode middle channel
 Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
 Test Engineer: Peter Wang

Full Spectrum

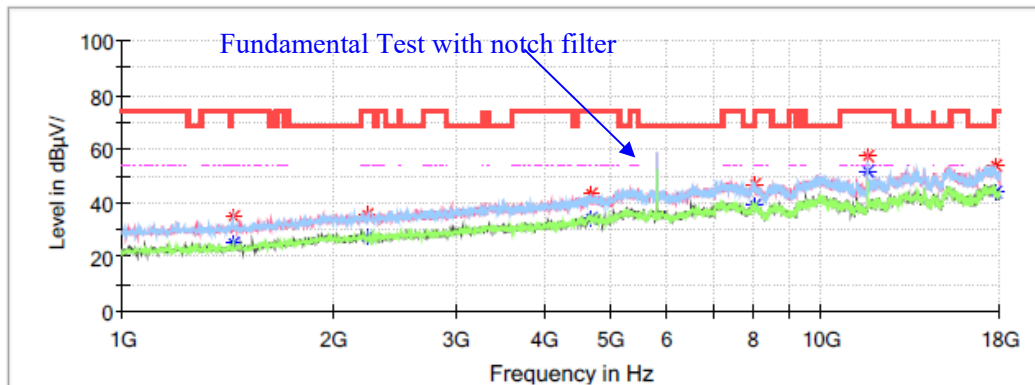
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1200.600000	32.64	---	74.00	41.36	V	-14.9
1200.600000	---	24.36	54.00	29.64	V	-14.9
2858.100000	38.49	---	74.00	35.51	V	-8.5
2858.100000	---	29.31	54.00	24.69	V	-8.5
5105.500000	43.58	---	74.00	30.42	H	-0.8
5105.500000	---	34.49	54.00	19.51	H	-0.8
7252.600000	---	38.64	54.00	15.36	V	4.0
7252.600000	49.04	---	74.00	24.96	V	4.0
11568.900000	53.94	---	74.00	20.06	H	7.2
11568.900000	---	47.81	54.00	6.19	H	7.2
15915.800000	---	42.61	54.00	11.39	V	9.3
15915.800000	52.12	---	74.00	21.88	V	9.3

High Channel: 5825MHz**Common Information**

Project No.: RKSA240319001
 Test Mode: Transmitting in 802.11a mode high channel
 Standard: FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
 Test Engineer: Peter Wang

Full Spectrum

**Critical Freqs**

Frequency (MHz)	MaxPeak (dBμ V/m)	Average (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1438.600000	34.62	---	74.00	39.38	H	-14.1
1438.600000	---	25.02	54.00	28.98	H	-14.1
2235.900000	---	27.32	54.00	26.68	V	-10.2
2235.900000	35.36	---	74.00	38.64	V	-10.2
4690.700000	43.50	---	74.00	30.50	H	-2.8
4690.700000	---	34.03	54.00	19.97	H	-2.8
8029.500000	47.16	---	74.00	26.84	V	3.8
8029.500000	---	38.85	54.00	15.15	V	3.8
11650.500000	57.66	---	74.00	16.34	V	7.2
11650.500000	---	51.59	54.00	2.41	V	7.2
17728.000000	---	44.02	54.00	9.98	H	12.7
17728.000000	53.78	---	74.00	20.22	H	12.7

802.11ac20 Mode:

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
Low Channel: 5745MHz						
1331.500000	---	24.62	54.00	29.38	H	-14.5
1331.500000	28.90	---	74.00	45.10	H	-14.5
2093.100000	37.06	---	68.20	31.14	V	-10.4
4564.900000	---	33.74	54.00	20.26	V	-3.5
4564.900000	42.23	---	74.00	31.77	V	-3.5
8593.900000	43.75	---	68.20	24.45	V	3.9
11492.400000	52.31	---	74.00	21.69	H	7.3
11492.400000	---	46.38	54.00	7.62	H	7.3
17219.700000	54.68	---	68.20	13.52	V	12.9
Middle Channel: 5785MHz						
1129.200000	33.42	---	74.00	40.58	H	-15.1
1129.200000	---	22.85	54.00	31.15	H	-15.1
2280.100000	34.34	---	74.00	39.66	V	-10.1
2280.100000	---	27.42	54.00	26.58	V	-10.1
4138.200000	40.26	---	74.00	33.74	V	-4.7
4138.200000	---	31.59	54.00	22.41	V	-4.7
7410.700000	---	38.95	54.00	15.05	V	4.1
7410.700000	47.72	---	74.00	26.28	V	4.1
11567.200000	52.23	---	74.00	21.77	H	7.3
11567.200000	---	47.11	54.00	6.89	H	7.3
16306.800000	51.73	---	68.20	16.47	V	9.7
High Channel: 5825MHz						
1241.400000	32.50	---	68.20	35.70	V	-14.8
2343.000000	36.70	---	74.00	37.30	H	-10.0
2343.000000	---	27.12	54.00	26.88	H	-10.0
4372.800000	41.67	---	74.00	32.33	V	-4.1
4372.800000	---	32.12	54.00	21.88	V	-4.1
7701.400000	---	38.25	54.00	15.75	V	4.0
7701.400000	46.85	---	74.00	27.15	V	4.0
11652.200000	59.69	---	74.00	14.31	V	7.2
11652.200000	---	50.99	54.00	3.01	V	7.2
15645.500000	---	42.83	54.00	11.17	H	10.9
15645.500000	51.41	---	74.00	22.59	H	10.9

802.11ac40 Mode:

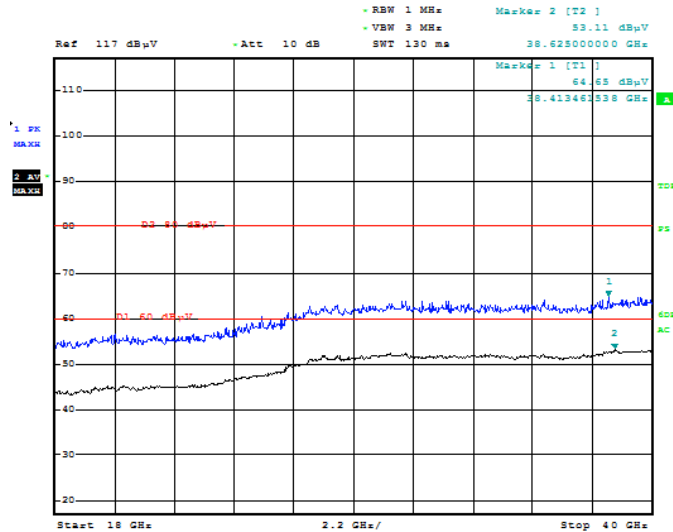
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
Low Channel: 5755MHz						
1419.900000	28.98	---	74.00	45.02	H	-14.2
1419.900000	---	23.73	54.00	30.27	H	-14.2
2802.000000	37.49	---	74.00	36.51	V	-8.7
2802.000000	---	28.41	54.00	25.59	V	-8.7
5304.400000	43.84	---	68.20	24.36	V	0.0
8004.000000	47.67	---	68.20	20.53	V	3.8
11509.400000	50.86	---	74.00	23.14	V	7.3
11509.400000	---	45.51	54.00	8.49	V	7.3
17722.900000	---	42.88	54.00	11.12	H	12.7
17722.900000	53.88	---	74.00	20.12	H	12.7
High Channel: 5795MHz						
1197.200000	32.72	---	74.00	41.28	H	-14.9
1197.200000	---	23.30	54.00	30.70	H	-14.9
2293.700000	---	26.47	54.00	27.53	V	-10.1
2293.700000	34.77	---	74.00	39.23	V	-10.1
4481.600000	41.81	---	68.20	26.39	V	-3.8
7465.100000	47.08	---	74.00	26.92	H	4.2
7465.100000	---	39.83	54.00	14.17	H	4.2
11589.300000	51.25	---	74.00	22.75	V	7.2
11589.300000	---	44.99	54.00	9.01	V	7.2
15084.500000	53.12	---	68.20	15.08	V	10.4

802.11ac80 Mode:

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
Middle Channel: 5775MHz						
1382.500000	32.65	---	74.00	41.35	H	-14.3
1382.500000	---	23.27	54.00	30.73	H	-14.3
2439.900000	36.23	---	68.20	31.97	V	-9.9
4172.200000	40.00	---	74.00	34.00	V	-4.6
4172.200000	---	31.84	54.00	22.16	V	-4.6
7856.100000	45.02	---	68.20	23.18	V	3.9
11548.500000	50.48	---	74.00	23.52	H	7.3
11548.500000	---	44.00	54.00	10.00	H	7.3
17653.200000	53.98	---	68.20	14.22	V	13.0

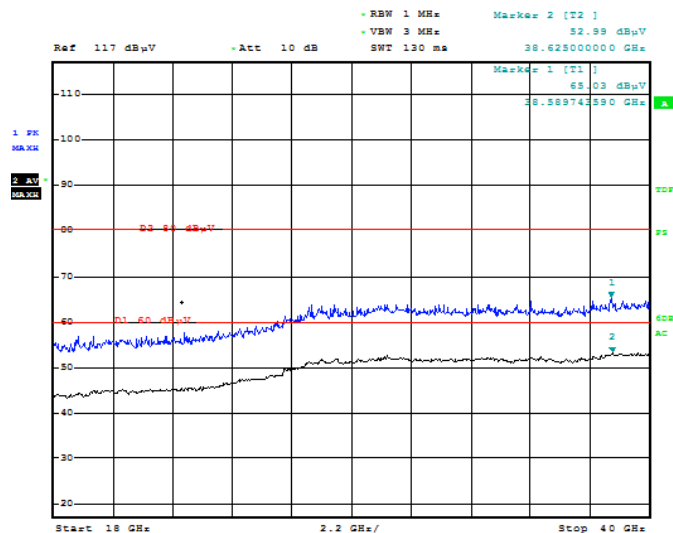
18GHz-40GHz:

Pre-scan with 802.11a, 802.11ac20, 802.11ac40, 802.11ac80 modes of operation in the X,Y and Z axes of orientation, the worst case **802.11a mode (5720MHz)** was recorded

Horizontal

Project No : RKSA240319001
Date: 3.JUN.2024 17:32:18

Tester: Hugh Wu

Vertical

Project No : RKSA240319001
Date: 3.JUN.2024 17:46:07

Tester: Hugh Wu

Note: The test distance is 1.5m. The limit is 80dBμV/m(Peak) and 60dBμV/m(Average).

Restricted Bands Emissions Test (5150-5250MHz Band):

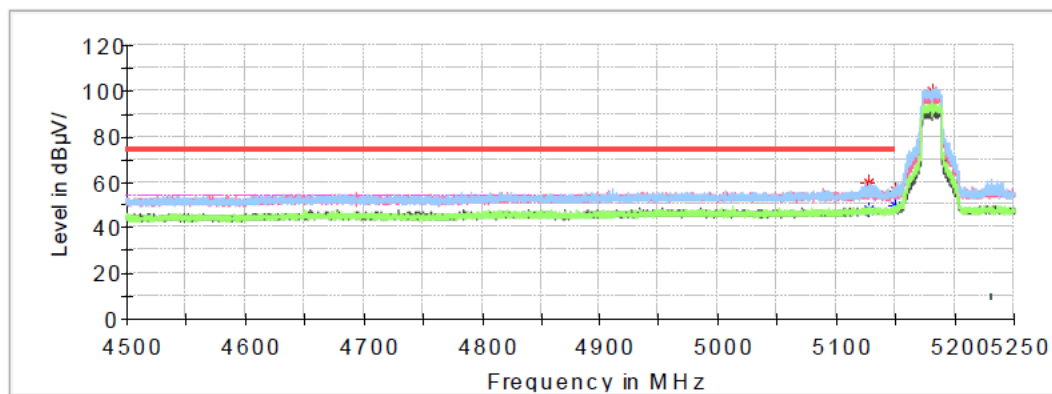
Note:

1. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
2. Corrected Amplitude = Corrected Factor + Reading
3. Margin = Limit - Corrected. Amplitude

802.11a Mode:**Common Information**

Project No.:	RKSA240319001
Test Mode:	Transmitting in 802.11a mode low channel
Standard:	FCC Part 15.407 & FCC Part 15.205 & FCC Part 15.209
Test Engineer:	Peter Wang

Full Spectrum

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5127.450000	---	48.07	54.00	5.93	H	9.3
5127.450000	59.29	---	74.00	14.71	H	9.3
5149.800000	---	49.41	54.00	4.59	H	9.4
5149.800000	56.07	---	74.00	17.93	H	9.4