FCC - TEST REPORT

Report Number	:	709502402457-00A	Date of Issue:	July 1, 2024

Model	:	Refer to page 4
Product Type	:	Acoustic Thermal Imager
Applicant	:	FOTRIC INC.
Address	:	No. 14, Lane 2500, Xiupu Road, Pudong, 201201 Shanghai, PEOPLE'S REPUBLIC OF CHINA
Manufacturer	:	FOTRIC INC.
Address	:	No. 14, Lane 2500, Xiupu Road, Pudong, 201201 Shanghai, PEOPLE'S REPUBLIC OF CHINA

Test Result	:	■ Positive ☐ Negative
Total pages including Appendices	:	56

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1 Table of Contents

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2 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
709502402457-00A	First Issue	07/01/2024

3 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
No.16 Lane, 1951 Du Hui Road,
Shanghai 201108,
P.R. China

Test Firm FCC Registration Number: 820234

Designation number: CN1183

IC Company Number: 25988

CAB identifier: CN0101

Telephone: +86 21 6141 0123
Fax: +86 21 6140 8600

4 Description of the Equipment under Test

Product: Acoustic Thermal Imager

Model no.:

Fotric P0MiX	Fotric 360MiX	Fotric 350MiX	Fotric 860MiX
Fotric P1MiX	Fotric 361MiX	Fotric 351MiX	Fotric 861MiX
Fotric P2MiX	Fotric 362MiX	Fotric 352MiX	Fotric 862MiX
Fotric P3MiX	Fotric 363MiX	Fotric 353MiX	Fotric 863MiX
Fotric P4MiX	Fotric 364MiX	Fotric 354MiX	Fotric 864MiX
Fotric P5MiX	Fotric 365MiX	Fotric 355MiX	Fotric 865MiX
Fotric P6MiX	Fotric 366MiX	Fotric 356MiX	Fotric 866MiX
Fotric P7MiX	Fotric 367MiX	Fotric 357MiX	Fotric 867MiX
Fotric P8MiX	Fotric 368MiX	Fotric 358MiX	Fotric 868MiX
Fotric P9MiX	Fotric 369MiX	Fotric 359MiX	Fotric 869MiX
Fotric P10MiX	Fotric 3610MiX	Fotric 3510MiX	Fotric 8610MiX

FCC ID: 2AZTCJGACF

Options and accessories: NA

Rating: DC 3.6V for Acoustic Thermal Imager
AC 100-240V, 50/60Hz for adapter

RF Transmission Frequency: For Bluetooth:2402~2480MHz
For 2.4G Wi-Fi:802.11b/g/n-HT20: 2412~2462 MHz
802.11n-HT40: 2422~2452 MHz
For 5G Wi-Fi:5180~5240 MHz (U-NII-1)
5260~5320 MHz (U-NII-2A)
5500~5720 MHz (U-NII-2C)
5745~5825 MHz (U-NII-3)

No. of Operated Channel: 79 channels for Bluetooth EDR

Ch	Fre (MH)	Ch	Fre (MH)	Ch	Fre (MH)	Ch	Fre (MH)	Ch	Fre (MHz)
1	2402	17	2418	33	2434	49	2450	65	2466
2	2403	18	2419	34	2435	50	2451	66	2467
3	2404	19	2420	35	2436	51	2452	67	2468
4	2405	20	2421	36	2437	52	2453	68	2469
5	2406	21	2422	37	2438	53	2454	69	2470
6	2407	22	2423	38	2439	54	2455	70	2471
7	2408	23	2424	39	2440	55	2456	71	2472
8	2409	24	2425	40	2441	56	2457	72	2473
9	2410	25	2426	41	2442	57	2458	73	2474
10	2411	26	2427	42	2443	58	2459	74	2475
11	2412	27	2428	43	2444	59	2460	75	2476
12	2413	28	2429	44	2445	60	2461	76	2477
13	2414	29	2430	45	2446	61	2462	77	2478
14	2415	30	2431	46	2447	62	2463	78	2479
15	2416	31	2432	47	2448	63	2464	79	2480
16	2417	32	2433	48	2449	64	2465		

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40 channels for Bluetooth 4.2 BLE

Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

2.4GHz WIFI: 11 for 802.11b/802.11g/802.11(H20);
7 for 802.11n(HT40)

802.11b/g/n(HT20)					802.11n(HT40)		
Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)
1	2412	7	2442	3	2422	8	2447MHz
2	2417	8	2447	4	2427	9	2452MHz
3	2422	9	2452	5	2432		
4	2427	10	2457	6	2437		
5	2432	11	2462	7	2442		
6	2437						

5180~5240 MHz (U-NII-1):

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
40	5200	48	5240

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency (MHz)
42	5210

5260~5320 MHz (U-NII-2A)

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency （MHz）	Channel	Frequency （MHz）
52	5260	60	5300
56	5280	64	5320

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency （MHz）	Channel	Frequency （MHz）
54	5270	62	5310

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency （MHz）	Channel	Frequency （MHz）
58	5290		

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5500~5720 MHz (U-NII-2C)

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency (MHz)	Channel	Frequency(MHz)
100	5500	124	5620
104	5520	128	5640
108	5540	132	5660
112	5560	136	5680
116	5580	140	5700
120	5600	144	5720

6 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency (MHz)	Channel	Frequency(MHz)
102	5510	126	5630
110	5550	134	5670
118	5590	142	5710

3 channels are provided for 802.11ac (VHT80):

Channel	Frequency (MHz)	Channel	Frequency(MHz)
106	5530	138	5690
122	5610		

5745~5825 MHz (U-NII-3): Channel 149 – 165

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	161	5805
153	5765	165	5825
157	5785		

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency (MHz)
155	5755

Modulation: Bluetooth EDR FHSS: GFSK, π/4 DQPSK, 8DPSK
Bluetooth 4.2+BLE DHSS: GFSK
For Wi-Fi: Direct Sequence Spread Spectrum (DSSS) for 802.11b
Orthogonal Frequency Division Multiplexing (OFDM) for 802.11a/b/g/n/ac

Hardware Version: V6.0.0

Software Version: V6.0.1

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Data speed:	1. Bluetooth EDR FHSS: 1Mbps, 2Mbps, 3Mbps 2. Bluetooth 4.2+BLE DHSS: 1Mbps 3. Wi-Fi: 11b 1 ~ 11Mbps, 11g/a 6 ~ 54Mbps, 11n HT20 6.5 ~ 72.2Mbps, 11n HT 40 13.5 ~ 150Mbps, 11ac VHT40 13.5 ~ 200Mbps, 11ac VHT80 29.3 ~ 433.3Mbps
Antenna Type:	PCB Antenna
Antenna Gain:	1.79dBi for 2.4GHz; 7.19dBi for 5GHz
Description of the EUT:	The Equipment Under Test (EUT) is an Acoustic Thermal Imager with Bluetooth and Wi-Fi Module. The EUT support Bluetooth EDR, BLE function, Wi-Fi 2.4GHz and Wi-Fi 5GHz. According to the client's declaration, all the models have the same schematic and hardware circuit, except pixel, lens size differences. Detail model list refer to page 4 and Fotric 860MiX is chosen to perform all the tests and listed the worst data in this report. Only 5GHz Wi-Fi RF testing results were included in this report.
Test sample no.:	SHA-801877-1 (RF Conducted); SHA-801877-2 (RF Radiated)

The sample's mentioned in this report is/are submitted/ supplied/ manufactured by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.

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5 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart E, 2023 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart E - Unlicensed National Information Infrastructure Devices

Test Method:
FCC KDB 558074 D01 15.247 Meas Guidance v05r02
KDB 789033 D02 General UNII Test Procedures New Rules v02r01
ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices

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6 Summary of Test Results

Technical Requirements						
FCC Part 15 Subpart C						
Test Condition		Pages	Test Site	Test Result		
				Pass	Fail	N/A
§15.207	Conducted emission AC power port	14-18	Site 1	☒	☐	☐
§15.407(e)	Emission bandwidth	19-20	Site 1	☒	☐	☐
15.407(a)(i)	Maximum Conducted Output Power	21-22	Site 1	☒	☐	☐
15.407(a)(i)	Maximum Power Spectral Density	23-24	Site 1	☒	☐	☐
§15.407(g)	Frequencies Stability	25-34	Site 1	☒	☐	☐
§15.407(b)(1), 15.407(b)(2), 15.407(b)(3), 15.407(b)(4), 15.407(b)(5), 15.407(b)(6), 15.407(b)(7), 15.209	Unwanted Emissions	35-43	Site 1	☒	☐	☐
§15.203	Antenna requirement	See note 1		☒	☐	☐

Remark 1: The EUT only operation at 5G Wi-Fi UNII Band (5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5720MHz, 5745MHz-5825MHz). The EUT operate as Clients Device without Radar Detection.

Note 1: The EUT uses a PIFA antenna, which gain is 7.19dBi for 5GHz. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.

15.203 requirement: 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

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7 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2AZTCJGACF complies with Section 15.205, 15.207, 15.209, 15.407 of the FCC Part 15, Subpart E Rules.

This report in only for 5GHz Wi-Fi. The TX and RX range is 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5720MHz, 5745MHz-5825MHz.

This report in only for 5.0GHz Wi-Fi.

SUMMARY:

All tests according to the regulations cited on page 6 were

■ - Performed

☐ - **Not** Performed

The Equipment under Test

■ - **Fulfills** the general approval requirements.

☐ - **Does not** fulfill the general approval requirements.

Sample Received Date:	April 1, 2024
Testing Start Date:	April 16, 2024
Testing End Date:	June 28, 2024

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

Reviewed by:	Prepared by:	Tested by:
Hui TONG	Jiaxi XU	Cheng Huali
Review Engineer	Project Engineer	Test Engineer

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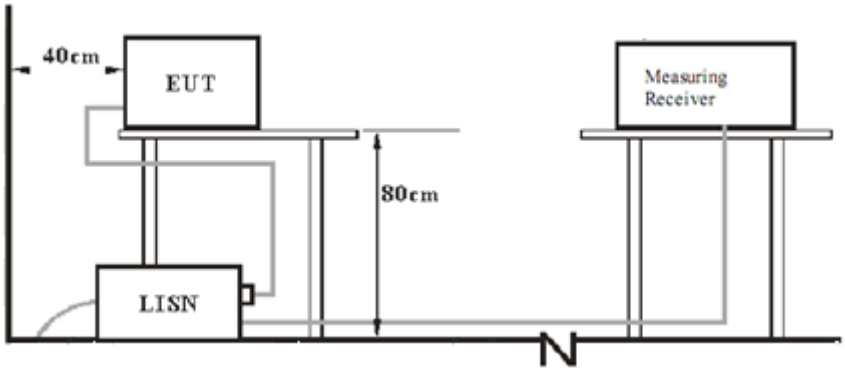
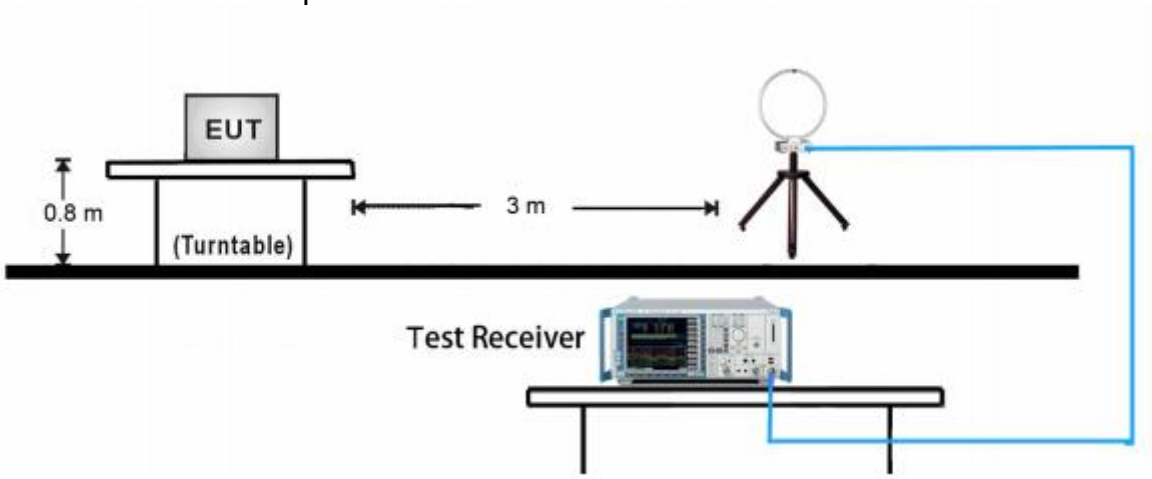
8 Test Setups

7.1 AC Power Line Conducted Emission test setups



7.2 Radiated test setups

9kHz ~ 30MHz Test Setup:



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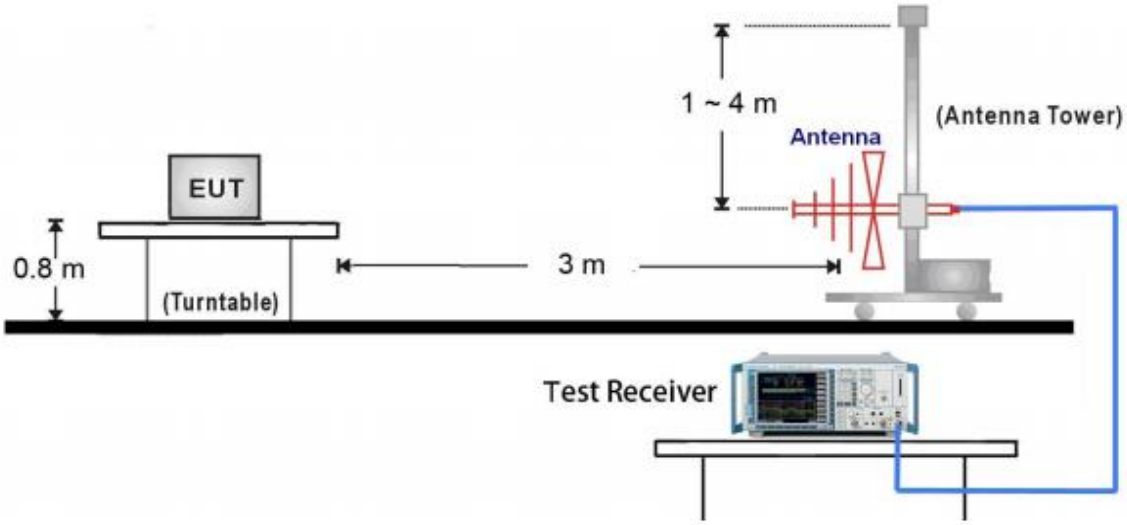
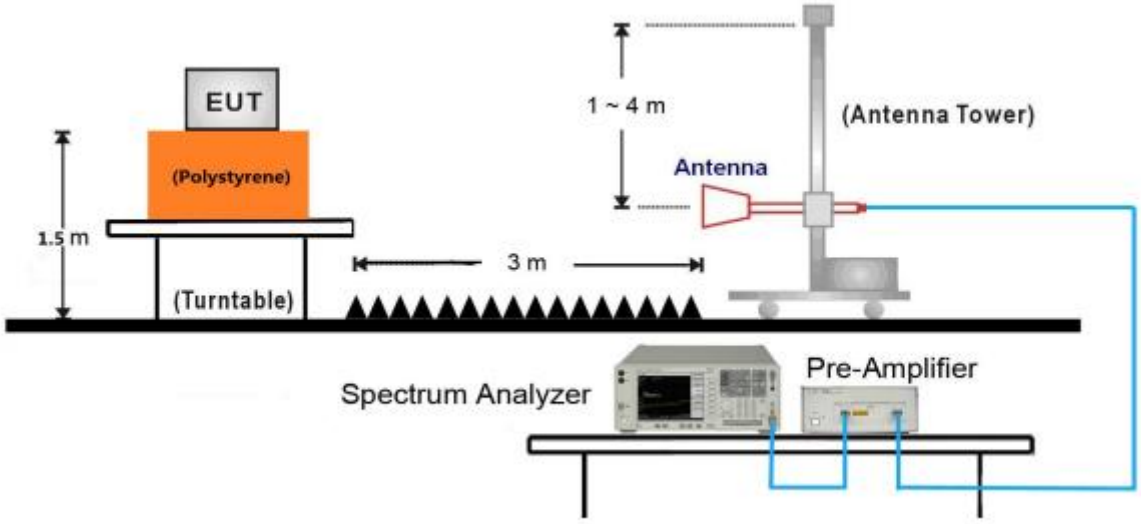
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



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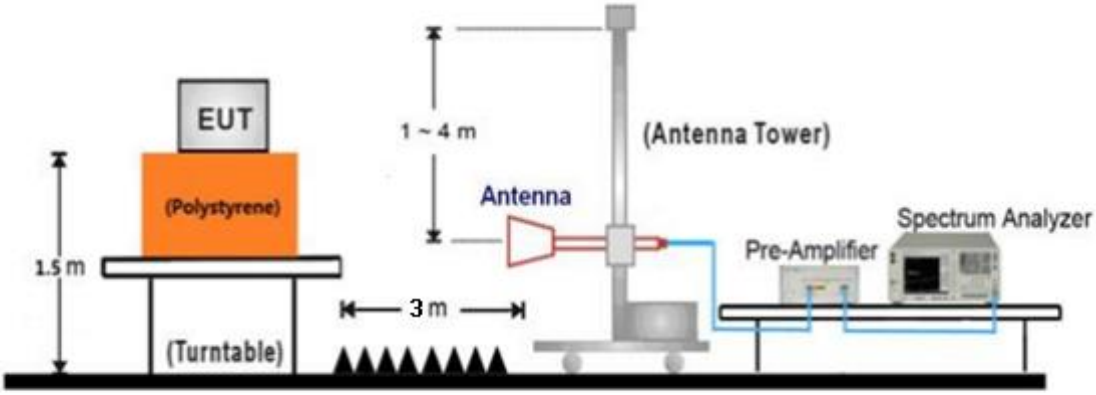
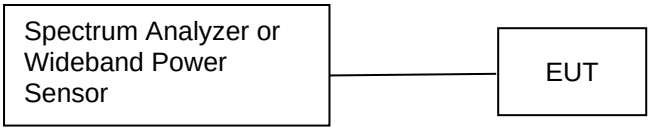
18GHz ~ 40GHz Test Setup:



7.3 Conducted RF test setups



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9 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	Lenove	E470	PF-OU5TS7 17/09

Test software: QRCT.exe, which used to control the EUT in continues transmitting mode.

The system was configured to channel:

Test Mode	Channel	Index Value (Power level setting)	Frequency (MHz)
802.11a, 802.11n HT20 802.11ac20	36	14	5180
	44	14	5200
	48	14	5240
	52	14	5260
	56	14	5280
	64	14	5320
	100	14	5500
	120	14	5600
	140	14	5700
	144	14	5720
	149	14	5745
	157	14	5785
	165	14	5825
802.11n HT40 802.11ac40	38	14	5190
	46	14	5230
	54	14	5270
	62	14	5310
	102	14	5510
	118	14	5590
	134	14	5670
	142	14	5710
	151	14	5755
	159	14	5795
802.11ac80	42	14	5210
	58	14	5290
	106	14	5530
	122	14	5610
	138	14	5690
	155	14	5775

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The pre-test has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.

Modulation Type	Data Rate
802.11a OFDM	6Mbps
802.11n (HT20): OFDM	MCS0 (6.5Mbps)
802.11n (HT40): OFDM	MCS0 (13.5Mbps)
802.11ac (VHT20): OFDM	11ac 6.5Mbps (20MHz)
802.11ac (VHT40): OFDM	11ac 13.5Mbps (40MHz)
802.11ac (VHT80): OFDM	11ac 29.3Mbps (80MHz)

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10 Technical Requirement

10.1 Conducted Emission

Test Method

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

Frequency MHz	QP Limit dBµV	AV Limit dBµV
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Decreasing linearly with logarithm of the frequency

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Conducted Emission

150k-30MHz Conducted Emission Test

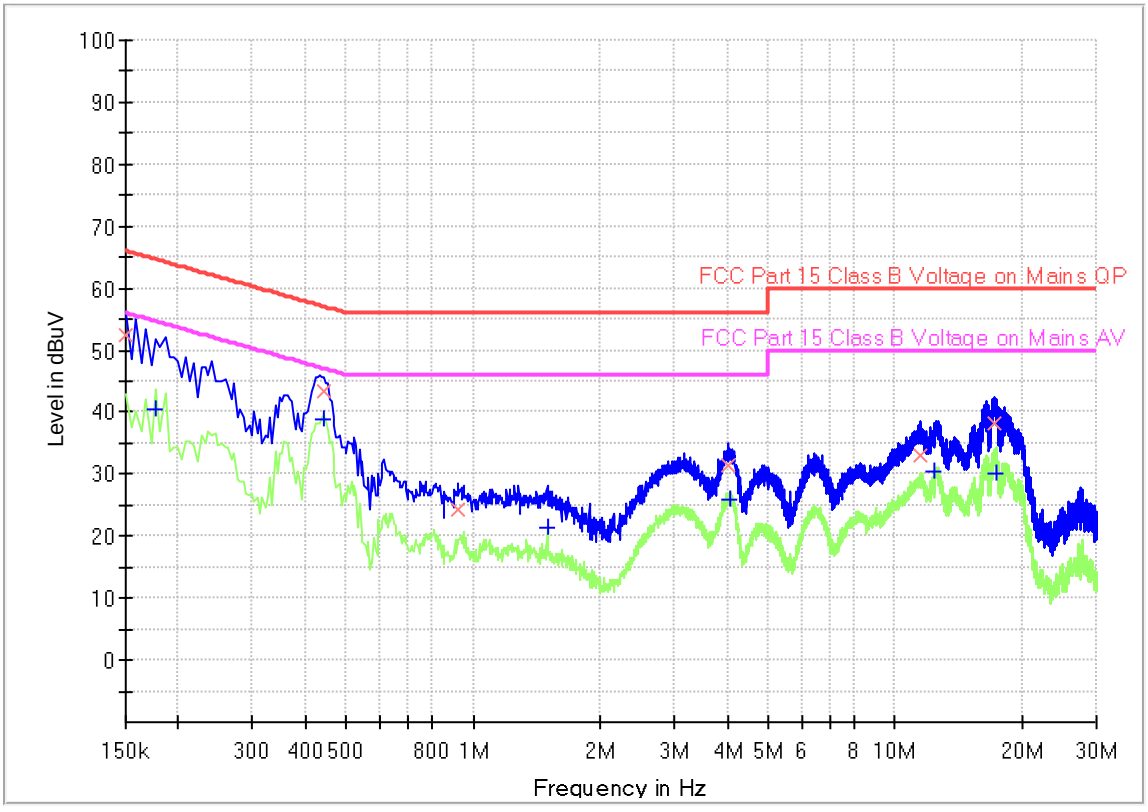
EUT Information

EUT Name:	Acoustic Thermal Imager
Model	Fotric 860MiX
Client:	FOTRIC INC
Op Cond	Power on, TX_5610MHz at 802.11AC80, AC 120V/60Hz
Operator:	Huali CHENG
Standard	FCC Part 15.207(a)
Comment:	Phase L
Sample No.:	SHA-801877-2

Scan Setup: Voltage with 2-Line-LISN pre [EMI conducted]

Hardware Setup:	Voltage with 2-Line-LISN
Receiver:	[ESR 3]
Level Unit:	dBuV

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0.02 s	0 dB
150 kHz - 30 MHz	4.5 kHz	PK+; AVG	9 kHz	0.01 s	0 dB



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Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	52.60	---	66.00	13.40	1000.0	9.000	L1	19.4
0.177000	---	40.49	54.63	14.14	1000.0	9.000	L1	19.4
0.442500	---	38.89	47.01	8.12	1000.0	9.000	L1	19.5
0.442500	43.46	---	57.01	13.55	1000.0	9.000	L1	19.5
0.919500	24.33	---	56.00	31.67	1000.0	9.000	L1	19.5
1.495500	---	21.26	46.00	24.74	1000.0	9.000	L1	19.5
4.024500	31.27	---	56.00	24.73	1000.0	9.000	L1	19.6
4.056000	---	25.96	46.00	20.04	1000.0	9.000	L1	19.6
11.503500	33.05	---	60.00	26.95	1000.0	9.000	L1	19.9
12.399000	---	30.40	50.00	19.60	1000.0	9.000	L1	19.9
17.164500	38.10	---	60.00	21.90	1000.0	9.000	L1	20.2
17.362500	---	30.23	50.00	19.77	1000.0	9.000	L1	20.2

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)
Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator

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150k-30MHz Conducted Emission Test

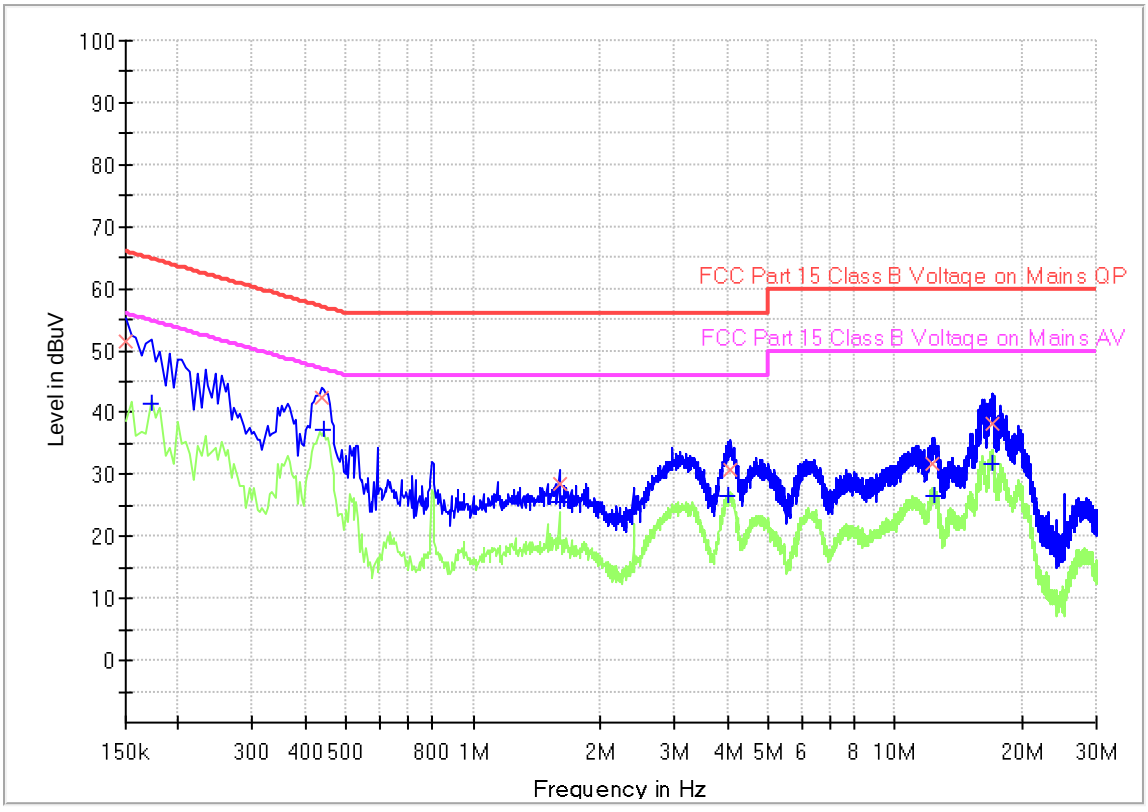
EUT Information

EUT Name:	Acoustic Thermal Imager
Model	Fotric 860MiX
Client:	FOTRIC INC
Op Cond	Power on, TX_5610MHz at 802.11AC80, AC 120V/60Hz
Operator:	Huali CHENG
Standard	FCC Part 15.207(a)
Comment:	Phase N
Sample No.:	SHA-801877-2

Scan Setup: Voltage with 2-Line-LISN pre [EMI conducted]

Hardware Setup:	Voltage with 2-Line-LISN
Receiver:	[ESR 3]
Level Unit:	dBuV

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0.02 s	0 dB
150 kHz - 30 MHz	4.5 kHz	PK+; AVG	9 kHz	0.01 s	0 dB



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Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	51.44	---	66.00	14.56	1000.0	9.000	N	19.4
0.172500	---	41.38	54.84	13.46	1000.0	9.000	N	19.4
0.438000	42.33	---	57.10	14.77	1000.0	9.000	N	19.5
0.442500	---	37.11	47.01	9.90	1000.0	9.000	N	19.5
1.599000	28.47	---	56.00	27.53	1000.0	9.000	N	19.5
1.599000	---	25.44	46.00	20.56	1000.0	9.000	N	19.5
4.006500	---	26.43	46.00	19.57	1000.0	9.000	N	19.6
4.083000	30.80	---	56.00	25.20	1000.0	9.000	N	19.6
12.313500	31.58	---	60.00	28.42	1000.0	9.000	N	19.8
12.336000	---	26.54	50.00	23.46	1000.0	9.000	N	19.8
16.948500	38.15	---	60.00	21.85	1000.0	9.000	N	20.0
16.975500	---	31.89	50.00	18.11	1000.0	9.000	N	20.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)
Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator

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10.2 Emission bandwidth

1、Test Method of 26dB Bandwidth

According to KDB789033 D02
a) Set RBW = approximately 1% of the emission bandwidth.
b) Set the VBW > RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) 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%.

Limit: No limit

2、Test Method of 6dB Bandwidth

According to KDB789033 D02
a) Set RBW = 100KHz
b) Set the video bandwidth (VBW) ≥ 3 × RBW
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) 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.

Limit: ≥500KHz

3、Test Method of 99% Bandwidth

According to KDB789033 D02
a) Set center frequency to the nominal EUT channel center frequency
b) Set span = 1.5 times to 5.0 times the OBW.
c) Set RBW = 1 % to 5 % of the OBW
d) Set VBW ≥ 3 · RBW
e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
f) Use the 99 % power bandwidth function of the instrument (if available).
g) If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

Limit: No limit

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Test result as below table:

26dB Bandwidth Test Result:

Test data should be referred to Appendix A for 709502402457-00A.

99% Bandwidth Test Result

Test data should be referred to Appendix A for 709502402457-00A.

6dB Bandwidth Test Result

Test data should be referred to Appendix A for 709502402457-00A.

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10.3 Maximum conducted output power

Test Method
According to C63.10, the EUT was places on 0.8m height table, the RF output of EUT was connected to the test power meter by RF cable. The path loss was compensated to the results for each measurement.

(1) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
(2) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in II.B.
(3) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
(4) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle (e.g., 10 log (1/0.25) if the duty cycle is 25%).

Limits:

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.

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 dBm + 10 log B, where B is the 26dB emission bandwidth in megahertz.
For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

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 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.

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Test result as below table

Test Mode	Channel	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit[dBm]	Verdict
11A	5180	11.45	0.58	12.03	<=23.98-1.19=22.79	PASS
	5200	11.48	0.59	12.07	<=23.98-1.19=22.79	PASS
	5240	11.97	0.58	12.55	<=23.98-1.19=22.79	PASS
	5260	12.02	0.58	12.6	<=23.98-1.19=22.79	PASS
	5280	12.04	0.59	12.63	<=23.98-1.19=22.79	PASS
	5320	11.94	0.59	12.53	<=23.98-1.19=22.79	PASS
	5500	13.66	0.59	14.25	<=23.98-1.19=22.79	PASS
	5600	13.14	0.58	13.72	<=23.98-1.19=22.79	PASS
	5700	12.77	0.58	13.35	<=23.98-1.19=22.79	PASS
	5720	12.52	0.59	13.11	<=23.98-1.19=22.79	PASS
	5745	12.04	0.59	12.63	<=30-1.19=28.81	PASS
	5785	11.67	0.59	12.26	<=30-1.19=28.81	PASS
	5825	11.91	0.59	12.5	<=30-1.19=28.81	PASS
11N20SISO	5180	11.5	0.62	12.12	<=23.98-1.19=22.79	PASS
	5200	11.35	0.62	11.97	<=23.98-1.19=22.79	PASS
	5240	12.02	0.62	12.64	<=23.98-1.19=22.79	PASS
	5260	12.21	0.62	12.83	<=23.98-1.19=22.79	PASS
	5280	12.13	0.62	12.75	<=23.98-1.19=22.79	PASS
	5320	12.1	0.62	12.72	<=23.98-1.19=22.79	PASS
	5500	13.72	0.62	14.34	<=23.98-1.19=22.79	PASS
	5600	13.41	0.62	14.03	<=23.98-1.19=22.79	PASS
	5700	12.65	0.62	13.27	<=23.98-1.19=22.79	PASS
	5720	12.48	0.62	13.1	<=23.98-1.19=22.79	PASS
	5745	12.2	0.62	12.82	<=30-1.19=28.81	PASS
	5785	11.68	0.63	12.31	<=30-1.19=28.81	PASS
	5825	11.85	0.63	12.48	<=30-1.19=28.81	PASS
11N40SISO	5190	11.68	1.47	13.15	<=23.98-1.19=22.79	PASS
	5230	12.08	1.46	13.54	<=23.98-1.19=22.79	PASS
	5270	12.73	1.17	13.9	<=23.98-1.19=22.79	PASS
	5310	12.28	1.17	13.45	<=23.98-1.19=22.79	PASS
	5510	14.17	1.17	15.34	<=23.98-1.19=22.79	PASS
	5590	14.3	1.16	15.46	<=23.98-1.19=22.79	PASS
	5670	13.1	1.17	14.27	<=23.98-1.19=22.79	PASS
	5710	13.22	1.17	14.39	<=23.98-1.19=22.79	PASS
	5755	12.52	1.18	13.7	<=30-1.19=28.81	PASS
	5795	12.47	1.18	13.65	<=30-1.19=28.81	PASS
11AC20SISO	5180	11.3	0.79	12.09	<=23.98-1.19=22.79	PASS
	5200	11.11	0.8	11.91	<=23.98-1.19=22.79	PASS
	5240	11.78	0.79	12.57	<=23.98-1.19=22.79	PASS
	5260	12.08	0.79	12.87	<=23.98-1.19=22.79	PASS
	5280	11.8	0.79	12.59	<=23.98-1.19=22.79	PASS
	5320	11.75	0.8	12.55	<=23.98-1.19=22.79	PASS
	5500	13.69	0.8	14.49	<=23.98-1.19=22.79	PASS
	5600	13.29	0.79	14.08	<=23.98-1.19=22.79	PASS
	5700	12.9	0.79	13.69	<=23.98-1.19=22.79	PASS
	5720	12.23	0.79	13.02	<=23.98-1.19=22.79	PASS
	5745	11.71	0.8	12.51	<=30-1.19=28.81	PASS
	5785	11.54	0.8	12.34	<=30-1.19=28.81	PASS
	5825	11.72	0.8	12.52	<=30-1.19=28.81	PASS
11AC40SISO	5190	11.49	1.45	12.94	<=23.98-1.19=22.79	PASS
	5230	12.36	1.46	13.82	<=23.98-1.19=22.79	PASS
	5270	12.23	1.46	13.69	<=23.98-1.19=22.79	PASS
	5310	11.99	1.46	13.45	<=23.98-1.19=22.79	PASS
	5510	14.01	1.46	15.47	<=23.98-1.19=22.79	PASS
	5590	14.09	1.46	15.55	<=23.98-1.19=22.79	PASS
	5670	12.84	1.45	14.29	<=23.98-1.19=22.79	PASS
	5710	12.99	1.45	14.44	<=23.98-1.19=22.79	PASS
	5755	12.07	1.46	13.53	<=30-1.19=28.81	PASS

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	5795	11.74	1.47	13.21	<=30-1.19=28.81	PASS
11AC80SISO	5210	11.37	2.53	13.9	<=23.98-1.19=22.79	PASS
	5290	11.37	2.53	13.9	<=23.98-1.19=22.79	PASS
	5530	13.1	2.52	15.62	<=23.98-1.19=22.79	PASS
	5610	12.48	2.53	15.01	<=23.98-1.19=22.79	PASS
	5690	11.85	2.52	14.37	<=23.98-1.19=22.79	PASS
	5775	11.07	2.55	13.62	<=30-1.19=28.81	PASS

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10.4 Maximum power spectral density

Test Method

According to C63.10, the EUT was places on 0.8m height table, the RF output of EUT was connected to the test power meter by RF cable. The path loss was compensated to the results for each measurement.

1. Create an average power spectrum for the EUT operating mode being tested by following the instructions in II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, “Compute power….” (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
2. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
3. Make the following adjustments to the peak value of the spectrum, if applicable:
a) If Method SA-2 or SA-2 Alternative was used, add 10 log (1/x), where x is the duty cycle, to the peak of the spectrum.
b) If Method SA-3 Alternative was used and the linear mode was used in II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
4. The result is the Maximum PSD over 1 MHz reference bandwidth.
5. For devices operating in the bands 5.15−5.25 GHz, 5.25−5.35 GHz, and 5.47−5.725 GHz, the preceding procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in Section 15.407(a)(5). For devices operating in the band 5.725−5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:
a) Set RBW ≥ 1/T, where T is defined in II.B.l.a).
b) Set VBW ≥ 3 RBW.
c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result, whereas RBW (<500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10 log (1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.
Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the II.F.5.c) and II.F.5.d), since RBW=100 kHz is available on nearly all spectrum analyzers.

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Limit: The maximum power spectral density shall not exceed 11dBm for the 5.15-5.25GHz, 5.25-5.35GHz, 5.47-5.725 GHz Band in any 1 megahertz band.
For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30dBm in any 1 500kHz band.

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 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.

Test Result:

Test data should be referred to Appendix A for 709502402457-00A.

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10.5 Frequencies Stability

Test Method

1. Connect the UUT to the spectrum analyzer
2. Set Centre Frequency of the channel under test.
3. Set Detector PEAK
4. Set RBW: 10KHz, VBW: 3RBW
5. Set Span: Encompass the entire emissions bandwidth (EBW) of the signal.
6. Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
User manual temperature is -20 to 50 °C.

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

Limit: 20ppm

Test Results (All conditions and all modes were performed, only list Worst-Case in the report)
Remark: NV is normal Voltage: 120V~, HV is High Voltage: 138V~, LV is Low Voltage: 102V~, NT is normal Temperature: +20 °C.

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Condition	Mode	Time (mins)	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
-20C 120V	a	0	5180	Ant1	5179.92	-80000	-15.44	20	Pass
-10C 120V	a	0	5180	Ant1	5179.94	-60000	-11.58	20	Pass
0C 120V	a	0	5180	Ant1	5179.94	-60000	-11.58	20	Pass
10C 120V	a	0	5180	Ant1	5179.94	-60000	-11.58	20	Pass
20C 120V	a	0	5180	Ant1	5179.94	-60000	-11.58	20	Pass
30C 120V	a	0	5180	Ant1	5179.92	-80000	-15.44	20	Pass
40C 120V	a	0	5180	Ant1	5179.94	-60000	-11.58	20	Pass
50C 120V	a	0	5180	Ant1	5179.94	-60000	-11.58	20	Pass
-20C 120V	a	0	5200	Ant1	5199.92	-80000	-15.38	20	Pass
-10C 120V	a	0	5200	Ant1	5199.96	-40000	-7.69	20	Pass
0C 120V	a	0	5200	Ant1	5199.96	-40000	-7.69	20	Pass
10C 120V	a	0	5200	Ant1	5199.94	-60000	-11.54	20	Pass
20C 120V	a	0	5200	Ant1	5199.94	-60000	-11.54	20	Pass
30C 120V	a	0	5200	Ant1	5199.94	-60000	-11.54	20	Pass
40C 120V	a	0	5200	Ant1	5199.92	-80000	-15.38	20	Pass
50C 120V	a	0	5200	Ant1	5199.94	-60000	-11.54	20	Pass
-20C 120V	a	0	5240	Ant1	5239.96	-40000	-7.63	20	Pass
-10C 120V	a	0	5240	Ant1	5239.96	-40000	-7.63	20	Pass
0C 120V	a	0	5240	Ant1	5239.94	-60000	-11.45	20	Pass
10C 120V	a	0	5240	Ant1	5239.96	-40000	-7.63	20	Pass
20C 120V	a	0	5240	Ant1	5239.94	-60000	-11.45	20	Pass
30C 120V	a	0	5240	Ant1	5239.92	-80000	-15.27	20	Pass
40C 120V	a	0	5240	Ant1	5239.94	-60000	-11.45	20	Pass
50C 120V	a	0	5240	Ant1	5239.94	-60000	-11.45	20	Pass
-20C 120V	a	0	5260	Ant1	5259.92	-80000	-15.21	20	Pass
-10C 120V	a	0	5260	Ant1	5259.94	-60000	-11.41	20	Pass
0C 120V	a	0	5260	Ant1	5259.94	-60000	-11.41	20	Pass
10C 120V	a	0	5260	Ant1	5259.94	-60000	-11.41	20	Pass
20C 120V	a	0	5260	Ant1	5259.96	-40000	-7.6	20	Pass
30C 120V	a	0	5260	Ant1	5259.94	-60000	-11.41	20	Pass
40C 120V	a	0	5260	Ant1	5259.94	-60000	-11.41	20	Pass
50C 120V	a	0	5260	Ant1	5259.96	-40000	-7.6	20	Pass
-20C 120V	a	0	5280	Ant1	5279.92	-80000	-15.15	20	Pass
-10C 120V	a	0	5280	Ant1	5279.94	-60000	-11.36	20	Pass
0C 120V	a	0	5280	Ant1	5279.92	-80000	-15.15	20	Pass
10C 120V	a	0	5280	Ant1	5279.94	-60000	-11.36	20	Pass
20C 120V	a	0	5280	Ant1	5279.94	-60000	-11.36	20	Pass
30C 120V	a	0	5280	Ant1	5279.94	-60000	-11.36	20	Pass
40C 120V	a	0	5280	Ant1	5279.94	-60000	-11.36	20	Pass
50C 120V	a	0	5280	Ant1	5279.92	-80000	-15.15	20	Pass
-20C 120V	a	0	5320	Ant1	5319.94	-60000	-11.28	20	Pass
-10C 120V	a	0	5320	Ant1	5319.94	-60000	-11.28	20	Pass
0C 120V	a	0	5320	Ant1	5319.92	-80000	-15.04	20	Pass
10C 120V	a	0	5320	Ant1	5319.92	-80000	-15.04	20	Pass
20C 120V	a	0	5320	Ant1	5319.94	-60000	-11.28	20	Pass
30C 120V	a	0	5320	Ant1	5319.94	-60000	-11.28	20	Pass
40C 120V	a	0	5320	Ant1	5319.92	-80000	-15.04	20	Pass
50C 120V	a	0	5320	Ant1	5319.94	-60000	-11.28	20	Pass
-20C 120V	a	0	5500	Ant1	5499.92	-80000	-14.55	20	Pass
-10C 120V	a	0	5500	Ant1	5499.94	-60000	-10.91	20	Pass
0C 120V	a	0	5500	Ant1	5499.94	-60000	-10.91	20	Pass
10C 120V	a	0	5500	Ant1	5499.94	-60000	-10.91	20	Pass
20C 120V	a	0	5500	Ant1	5499.94	-60000	-10.91	20	Pass
30C 120V	a	0	5500	Ant1	5499.94	-60000	-10.91	20	Pass
40C 120V	a	0	5500	Ant1	5499.94	-60000	-10.91	20	Pass
50C 120V	a	0	5500	Ant1	5499.94	-60000	-10.91	20	Pass
-20C 120V	a	0	5600	Ant1	5599.94	-60000	-10.71	20	Pass
-10C 120V	a	0	5600	Ant1	5599.94	-60000	-10.71	20	Pass
0C 120V	a	0	5600	Ant1	5599.92	-80000	-14.29	20	Pass
10C 120V	a	0	5600	Ant1	5599.94	-60000	-10.71	20	Pass
20C 120V	a	0	5600	Ant1	5599.94	-60000	-10.71	20	Pass
30C 120V	a	0	5600	Ant1	5599.94	-60000	-10.71	20	Pass
40C 120V	a	0	5600	Ant1	5599.94	-60000	-10.71	20	Pass
50C 120V	a	0	5600	Ant1	5599.92	-80000	-14.29	20	Pass
-20C 120V	a	0	5700	Ant1	5699.92	-80000	-14.04	20	Pass
-10C 120V	a	0	5700	Ant1	5699.94	-60000	-10.53	20	Pass
0C 120V	a	0	5700	Ant1	5699.94	-60000	-10.53	20	Pass
10C 120V	a	0	5700	Ant1	5699.94	-60000	-10.53	20	Pass

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20C 120V	a	0	5700	Ant1	5699.94	-60000	-10.53	20	Pass
30C 120V	a	0	5700	Ant1	5699.94	-60000	-10.53	20	Pass
40C 120V	a	0	5700	Ant1	5699.94	-60000	-10.53	20	Pass
50C 120V	a	0	5700	Ant1	5699.94	-60000	-10.53	20	Pass
-20C 120V	a	0	5720	Ant1	5719.94	-60000	-10.49	20	Pass
-10C 120V	a	0	5720	Ant1	5719.94	-60000	-10.49	20	Pass
0C 120V	a	0	5720	Ant1	5719.96	-40000	-6.99	20	Pass
10C 120V	a	0	5720	Ant1	5719.92	-80000	-13.99	20	Pass
20C 120V	a	0	5720	Ant1	5719.92	-80000	-13.99	20	Pass
30C 120V	a	0	5720	Ant1	5719.94	-60000	-10.49	20	Pass
40C 120V	a	0	5720	Ant1	5719.92	-80000	-13.99	20	Pass
50C 120V	a	0	5720	Ant1	5719.94	-60000	-10.49	20	Pass
-20C 120V	a	0	5745	Ant1	5744.94	-60000	-10.44	20	Pass
-10C 120V	a	0	5745	Ant1	5744.92	-80000	-13.93	20	Pass
0C 120V	a	0	5745	Ant1	5744.92	-80000	-13.93	20	Pass
10C 120V	a	0	5745	Ant1	5744.94	-60000	-10.44	20	Pass
20C 120V	a	0	5745	Ant1	5744.94	-60000	-10.44	20	Pass
30C 120V	a	0	5745	Ant1	5744.92	-80000	-13.93	20	Pass
40C 120V	a	0	5745	Ant1	5744.94	-60000	-10.44	20	Pass
50C 120V	a	0	5745	Ant1	5744.92	-80000	-13.93	20	Pass
-20C 120V	a	0	5785	Ant1	5784.92	-80000	-13.83	20	Pass
-10C 120V	a	0	5785	Ant1	5784.94	-60000	-10.37	20	Pass
0C 120V	a	0	5785	Ant1	5784.92	-80000	-13.83	20	Pass
10C 120V	a	0	5785	Ant1	5784.92	-80000	-13.83	20	Pass
20C 120V	a	0	5785	Ant1	5784.94	-60000	-10.37	20	Pass
30C 120V	a	0	5785	Ant1	5784.94	-60000	-10.37	20	Pass
40C 120V	a	0	5785	Ant1	5784.94	-60000	-10.37	20	Pass
50C 120V	a	0	5785	Ant1	5784.92	-80000	-13.83	20	Pass
-20C 120V	a	0	5825	Ant1	5824.94	-60000	-10.3	20	Pass
-10C 120V	a	0	5825	Ant1	5824.92	-80000	-13.73	20	Pass
0C 120V	a	0	5825	Ant1	5824.92	-80000	-13.73	20	Pass
10C 120V	a	0	5825	Ant1	5824.92	-80000	-13.73	20	Pass
20C 120V	a	0	5825	Ant1	5824.94	-60000	-10.3	20	Pass
30C 120V	a	0	5825	Ant1	5824.94	-60000	-10.3	20	Pass
40C 120V	a	0	5825	Ant1	5824.92	-80000	-13.73	20	Pass
50C 120V	a	0	5825	Ant1	5824.92	-80000	-13.73	20	Pass
-20C 120V	n20	0	5180	Ant1	5179.94	-60000	-11.58	20	Pass
-10C 120V	n20	0	5180	Ant1	5179.96	-40000	-7.72	20	Pass
0C 120V	n20	0	5180	Ant1	5179.96	-40000	-7.72	20	Pass
10C 120V	n20	0	5180	Ant1	5179.94	-60000	-11.58	20	Pass
20C 120V	n20	0	5180	Ant1	5179.94	-60000	-11.58	20	Pass
30C 120V	n20	0	5180	Ant1	5179.94	-60000	-11.58	20	Pass
40C 120V	n20	0	5180	Ant1	5179.94	-60000	-11.58	20	Pass
50C 120V	n20	0	5180	Ant1	5179.94	-60000	-11.58	20	Pass
-20C 120V	n20	0	5200	Ant1	5199.92	-80000	-15.38	20	Pass
-10C 120V	n20	0	5200	Ant1	5199.94	-60000	-11.54	20	Pass
0C 120V	n20	0	5200	Ant1	5199.94	-60000	-11.54	20	Pass
10C 120V	n20	0	5200	Ant1	5199.94	-60000	-11.54	20	Pass
20C 120V	n20	0	5200	Ant1	5199.94	-60000	-11.54	20	Pass
30C 120V	n20	0	5200	Ant1	5199.94	-60000	-11.54	20	Pass
40C 120V	n20	0	5200	Ant1	5199.94	-60000	-11.54	20	Pass
50C 120V	n20	0	5200	Ant1	5199.94	-60000	-11.54	20	Pass
-20C 120V	n20	0	5240	Ant1	5239.96	-40000	-7.63	20	Pass
-10C 120V	n20	0	5240	Ant1	5239.94	-60000	-11.45	20	Pass
0C 120V	n20	0	5240	Ant1	5239.94	-60000	-11.45	20	Pass
10C 120V	n20	0	5240	Ant1	5239.92	-80000	-15.27	20	Pass
20C 120V	n20	0	5240	Ant1	5239.96	-40000	-7.63	20	Pass
30C 120V	n20	0	5240	Ant1	5239.96	-40000	-7.63	20	Pass
40C 120V	n20	0	5240	Ant1	5239.94	-60000	-11.45	20	Pass
50C 120V	n20	0	5240	Ant1	5239.94	-60000	-11.45	20	Pass
-20C 120V	n20	0	5260	Ant1	5259.94	-60000	-11.41	20	Pass
-10C 120V	n20	0	5260	Ant1	5259.94	-60000	-11.41	20	Pass
0C 120V	n20	0	5260	Ant1	5259.94	-60000	-11.41	20	Pass
10C 120V	n20	0	5260	Ant1	5259.94	-60000	-11.41	20	Pass
20C 120V	n20	0	5260	Ant1	5259.96	-40000	-7.6	20	Pass
30C 120V	n20	0	5260	Ant1	5259.94	-60000	-11.41	20	Pass
40C 120V	n20	0	5260	Ant1	5259.94	-60000	-11.41	20	Pass
50C 120V	n20	0	5260	Ant1	5259.92	-80000	-15.21	20	Pass
-20C 120V	n20	0	5280	Ant1	5279.92	-80000	-15.15	20	Pass
-10C 120V	n20	0	5280	Ant1	5279.94	-60000	-11.36	20	Pass
0C 120V	n20	0	5280	Ant1	5279.94	-60000	-11.36	20	Pass

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10C 120V	n20	0	5280	Ant1	5279.94	-60000	-11.36	20	Pass
20C 120V	n20	0	5280	Ant1	5279.94	-60000	-11.36	20	Pass
30C 120V	n20	0	5280	Ant1	5279.94	-60000	-11.36	20	Pass
40C 120V	n20	0	5280	Ant1	5279.96	-40000	-7.58	20	Pass
50C 120V	n20	0	5280	Ant1	5279.96	-40000	-7.58	20	Pass
-20C 120V	n20	0	5320	Ant1	5319.94	-60000	-11.28	20	Pass
-10C 120V	n20	0	5320	Ant1	5319.94	-60000	-11.28	20	Pass
0C 120V	n20	0	5320	Ant1	5319.92	-80000	-15.04	20	Pass
10C 120V	n20	0	5320	Ant1	5319.96	-40000	-7.52	20	Pass
20C 120V	n20	0	5320	Ant1	5319.94	-60000	-11.28	20	Pass
30C 120V	n20	0	5320	Ant1	5319.92	-80000	-15.04	20	Pass
40C 120V	n20	0	5320	Ant1	5319.96	-40000	-7.52	20	Pass
50C 120V	n20	0	5320	Ant1	5319.92	-80000	-15.04	20	Pass
-20C 120V	n20	0	5500	Ant1	5499.94	-60000	-10.91	20	Pass
-10C 120V	n20	0	5500	Ant1	5499.92	-80000	-14.55	20	Pass
0C 120V	n20	0	5500	Ant1	5499.92	-80000	-14.55	20	Pass
10C 120V	n20	0	5500	Ant1	5499.92	-80000	-14.55	20	Pass
20C 120V	n20	0	5500	Ant1	5499.94	-60000	-10.91	20	Pass
30C 120V	n20	0	5500	Ant1	5499.94	-60000	-10.91	20	Pass
40C 120V	n20	0	5500	Ant1	5499.96	-40000	-7.27	20	Pass
50C 120V	n20	0	5500	Ant1	5499.94	-60000	-10.91	20	Pass
-20C 120V	n20	0	5600	Ant1	5599.96	-40000	-7.14	20	Pass
-10C 120V	n20	0	5600	Ant1	5599.94	-60000	-10.71	20	Pass
0C 120V	n20	0	5600	Ant1	5599.94	-60000	-10.71	20	Pass
10C 120V	n20	0	5600	Ant1	5599.92	-80000	-14.29	20	Pass
20C 120V	n20	0	5600	Ant1	5599.94	-60000	-10.71	20	Pass
30C 120V	n20	0	5600	Ant1	5599.94	-60000	-10.71	20	Pass
40C 120V	n20	0	5600	Ant1	5599.94	-60000	-10.71	20	Pass
50C 120V	n20	0	5600	Ant1	5599.96	-40000	-7.14	20	Pass
-20C 120V	n20	0	5700	Ant1	5699.94	-60000	-10.53	20	Pass
-10C 120V	n20	0	5700	Ant1	5699.92	-80000	-14.04	20	Pass
0C 120V	n20	0	5700	Ant1	5699.92	-80000	-14.04	20	Pass
10C 120V	n20	0	5700	Ant1	5699.94	-60000	-10.53	20	Pass
20C 120V	n20	0	5700	Ant1	5699.92	-80000	-14.04	20	Pass
30C 120V	n20	0	5700	Ant1	5699.94	-60000	-10.53	20	Pass
40C 120V	n20	0	5700	Ant1	5699.94	-60000	-10.53	20	Pass
50C 120V	n20	0	5700	Ant1	5699.92	-80000	-14.04	20	Pass
-20C 120V	n20	0	5720	Ant1	5719.94	-60000	-10.49	20	Pass
-10C 120V	n20	0	5720	Ant1	5719.94	-60000	-10.49	20	Pass
0C 120V	n20	0	5720	Ant1	5719.94	-60000	-10.49	20	Pass
10C 120V	n20	0	5720	Ant1	5719.92	-80000	-13.99	20	Pass
20C 120V	n20	0	5720	Ant1	5719.92	-80000	-13.99	20	Pass
30C 120V	n20	0	5720	Ant1	5719.94	-60000	-10.49	20	Pass
40C 120V	n20	0	5720	Ant1	5719.94	-60000	-10.49	20	Pass
50C 120V	n20	0	5720	Ant1	5719.94	-60000	-10.49	20	Pass
-20C 120V	n20	0	5745	Ant1	5744.94	-60000	-10.44	20	Pass
-10C 120V	n20	0	5745	Ant1	5744.92	-80000	-13.93	20	Pass
0C 120V	n20	0	5745	Ant1	5744.9	-100000	-17.41	20	Pass
10C 120V	n20	0	5745	Ant1	5744.92	-80000	-13.93	20	Pass
20C 120V	n20	0	5745	Ant1	5744.92	-80000	-13.93	20	Pass
30C 120V	n20	0	5745	Ant1	5744.92	-80000	-13.93	20	Pass
40C 120V	n20	0	5745	Ant1	5744.92	-80000	-13.93	20	Pass
50C 120V	n20	0	5745	Ant1	5744.94	-60000	-10.44	20	Pass
-20C 120V	n20	0	5785	Ant1	5784.92	-80000	-13.83	20	Pass
-10C 120V	n20	0	5785	Ant1	5784.94	-60000	-10.37	20	Pass
0C 120V	n20	0	5785	Ant1	5784.94	-60000	-10.37	20	Pass
10C 120V	n20	0	5785	Ant1	5784.94	-60000	-10.37	20	Pass
20C 120V	n20	0	5785	Ant1	5784.94	-60000	-10.37	20	Pass
30C 120V	n20	0	5785	Ant1	5784.92	-80000	-13.83	20	Pass
40C 120V	n20	0	5785	Ant1	5784.92	-80000	-13.83	20	Pass
50C 120V	n20	0	5785	Ant1	5784.92	-80000	-13.83	20	Pass
-20C 120V	n20	0	5825	Ant1	5824.94	-60000	-10.3	20	Pass
-10C 120V	n20	0	5825	Ant1	5824.92	-80000	-13.73	20	Pass
0C 120V	n20	0	5825	Ant1	5824.92	-80000	-13.73	20	Pass
10C 120V	n20	0	5825	Ant1	5824.94	-60000	-10.3	20	Pass
20C 120V	n20	0	5825	Ant1	5824.92	-80000	-13.73	20	Pass
30C 120V	n20	0	5825	Ant1	5824.94	-60000	-10.3	20	Pass
40C 120V	n20	0	5825	Ant1	5824.92	-80000	-13.73	20	Pass
50C 120V	n20	0	5825	Ant1	5824.94	-60000	-10.3	20	Pass
-20C 120V	n40	0	5190	Ant1	5189.92	-80000	-15.41	20	Pass
-10C 120V	n40	0	5190	Ant1	5189.92	-80000	-15.41	20	Pass

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0C 120V	n40	0	5190	Ant1	5189.92	-80000	-15.41	20	Pass
10C 120V	n40	0	5190	Ant1	5189.92	-80000	-15.41	20	Pass
20C 120V	n40	0	5190	Ant1	5189.92	-80000	-15.41	20	Pass
30C 120V	n40	0	5190	Ant1	5189.96	-40000	-7.71	20	Pass
40C 120V	n40	0	5190	Ant1	5189.96	-40000	-7.71	20	Pass
50C 120V	n40	0	5190	Ant1	5189.92	-80000	-15.41	20	Pass
-20C 120V	n40	0	5230	Ant1	5229.92	-80000	-15.3	20	Pass
-10C 120V	n40	0	5230	Ant1	5229.92	-80000	-15.3	20	Pass
0C 120V	n40	0	5230	Ant1	5229.96	-40000	-7.65	20	Pass
10C 120V	n40	0	5230	Ant1	5229.92	-80000	-15.3	20	Pass
20C 120V	n40	0	5230	Ant1	5229.92	-80000	-15.3	20	Pass
30C 120V	n40	0	5230	Ant1	5229.92	-80000	-15.3	20	Pass
40C 120V	n40	0	5230	Ant1	5229.92	-80000	-15.3	20	Pass
50C 120V	n40	0	5230	Ant1	5229.92	-80000	-15.3	20	Pass
-20C 120V	n40	0	5270	Ant1	5269.92	-80000	-15.18	20	Pass
-10C 120V	n40	0	5270	Ant1	5269.96	-40000	-7.59	20	Pass
0C 120V	n40	0	5270	Ant1	5269.96	-40000	-7.59	20	Pass
10C 120V	n40	0	5270	Ant1	5270	0	0	20	Pass
20C 120V	n40	0	5270	Ant1	5269.92	-80000	-15.18	20	Pass
30C 120V	n40	0	5270	Ant1	5269.96	-40000	-7.59	20	Pass
40C 120V	n40	0	5270	Ant1	5269.96	-40000	-7.59	20	Pass
50C 120V	n40	0	5270	Ant1	5269.96	-40000	-7.59	20	Pass
-20C 120V	n40	0	5310	Ant1	5309.96	-40000	-7.53	20	Pass
-10C 120V	n40	0	5310	Ant1	5309.92	-80000	-15.07	20	Pass
0C 120V	n40	0	5310	Ant1	5309.96	-40000	-7.53	20	Pass
10C 120V	n40	0	5310	Ant1	5310	0	0	20	Pass
20C 120V	n40	0	5310	Ant1	5309.92	-80000	-15.07	20	Pass
30C 120V	n40	0	5310	Ant1	5309.92	-80000	-15.07	20	Pass
40C 120V	n40	0	5310	Ant1	5309.92	-80000	-15.07	20	Pass
50C 120V	n40	0	5310	Ant1	5309.92	-80000	-15.07	20	Pass
-20C 120V	n40	0	5510	Ant1	5509.96	-40000	-7.26	20	Pass
-10C 120V	n40	0	5510	Ant1	5509.92	-80000	-14.52	20	Pass
0C 120V	n40	0	5510	Ant1	5509.96	-40000	-7.26	20	Pass
10C 120V	n40	0	5510	Ant1	5509.92	-80000	-14.52	20	Pass
20C 120V	n40	0	5510	Ant1	5509.92	-80000	-14.52	20	Pass
30C 120V	n40	0	5510	Ant1	5509.92	-80000	-14.52	20	Pass
40C 120V	n40	0	5510	Ant1	5509.92	-80000	-14.52	20	Pass
50C 120V	n40	0	5510	Ant1	5509.92	-80000	-14.52	20	Pass
-20C 120V	n40	0	5590	Ant1	5589.96	-40000	-7.16	20	Pass
-10C 120V	n40	0	5590	Ant1	5589.92	-80000	-14.31	20	Pass
0C 120V	n40	0	5590	Ant1	5589.92	-80000	-14.31	20	Pass
10C 120V	n40	0	5590	Ant1	5589.92	-80000	-14.31	20	Pass
20C 120V	n40	0	5590	Ant1	5589.92	-80000	-14.31	20	Pass
30C 120V	n40	0	5590	Ant1	5589.96	-40000	-7.16	20	Pass
40C 120V	n40	0	5590	Ant1	5589.92	-80000	-14.31	20	Pass
50C 120V	n40	0	5590	Ant1	5589.92	-80000	-14.31	20	Pass
-20C 120V	n40	0	5670	Ant1	5669.92	-80000	-14.11	20	Pass
-10C 120V	n40	0	5670	Ant1	5669.96	-40000	-7.05	20	Pass
0C 120V	n40	0	5670	Ant1	5669.96	-40000	-7.05	20	Pass
10C 120V	n40	0	5670	Ant1	5669.92	-80000	-14.11	20	Pass
20C 120V	n40	0	5670	Ant1	5669.92	-80000	-14.11	20	Pass
30C 120V	n40	0	5670	Ant1	5669.96	-40000	-7.05	20	Pass
40C 120V	n40	0	5670	Ant1	5669.92	-80000	-14.11	20	Pass
50C 120V	n40	0	5670	Ant1	5669.92	-80000	-14.11	20	Pass
-20C 120V	n40	0	5710	Ant1	5709.96	-40000	-7.01	20	Pass
-10C 120V	n40	0	5710	Ant1	5709.96	-40000	-7.01	20	Pass
0C 120V	n40	0	5710	Ant1	5709.92	-80000	-14.01	20	Pass
10C 120V	n40	0	5710	Ant1	5709.92	-80000	-14.01	20	Pass
20C 120V	n40	0	5710	Ant1	5709.92	-80000	-14.01	20	Pass
30C 120V	n40	0	5710	Ant1	5709.92	-80000	-14.01	20	Pass
40C 120V	n40	0	5710	Ant1	5709.92	-80000	-14.01	20	Pass
50C 120V	n40	0	5710	Ant1	5709.92	-80000	-14.01	20	Pass
-20C 120V	n40	0	5755	Ant1	5754.92	-80000	-13.9	20	Pass
-10C 120V	n40	0	5755	Ant1	5754.92	-80000	-13.9	20	Pass
0C 120V	n40	0	5755	Ant1	5754.96	-40000	-6.95	20	Pass
10C 120V	n40	0	5755	Ant1	5754.96	-40000	-6.95	20	Pass
20C 120V	n40	0	5755	Ant1	5754.96	-40000	-6.95	20	Pass
30C 120V	n40	0	5755	Ant1	5754.92	-80000	-13.9	20	Pass
40C 120V	n40	0	5755	Ant1	5754.92	-80000	-13.9	20	Pass
50C 120V	n40	0	5755	Ant1	5754.92	-80000	-13.9	20	Pass
-20C 120V	n40	0	5795	Ant1	5794.96	-40000	-6.9	20	Pass

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-10C 120V	n40	0	5795	Ant1	5794.92	-80000	-13.81	20	Pass
0C 120V	n40	0	5795	Ant1	5794.92	-80000	-13.81	20	Pass
10C 120V	n40	0	5795	Ant1	5794.92	-80000	-13.81	20	Pass
20C 120V	n40	0	5795	Ant1	5794.92	-80000	-13.81	20	Pass
30C 120V	n40	0	5795	Ant1	5794.92	-80000	-13.81	20	Pass
40C 120V	n40	0	5795	Ant1	5794.96	-40000	-6.9	20	Pass
50C 120V	n40	0	5795	Ant1	5794.92	-80000	-13.81	20	Pass
-20C 120V	ac20	0	5180	Ant1	5179.94	-60000	-11.58	20	Pass
-10C 120V	ac20	0	5180	Ant1	5179.94	-60000	-11.58	20	Pass
0C 120V	ac20	0	5180	Ant1	5179.94	-60000	-11.58	20	Pass
10C 120V	ac20	0	5180	Ant1	5179.94	-60000	-11.58	20	Pass
20C 120V	ac20	0	5180	Ant1	5179.94	-60000	-11.58	20	Pass
30C 120V	ac20	0	5180	Ant1	5179.94	-60000	-11.58	20	Pass
40C 120V	ac20	0	5180	Ant1	5179.94	-60000	-11.58	20	Pass
50C 120V	ac20	0	5180	Ant1	5179.94	-60000	-11.58	20	Pass
-20C 120V	ac20	0	5200	Ant1	5199.94	-60000	-11.54	20	Pass
-10C 120V	ac20	0	5200	Ant1	5199.94	-60000	-11.54	20	Pass
0C 120V	ac20	0	5200	Ant1	5199.94	-60000	-11.54	20	Pass
10C 120V	ac20	0	5200	Ant1	5199.92	-80000	-15.38	20	Pass
20C 120V	ac20	0	5200	Ant1	5199.94	-60000	-11.54	20	Pass
30C 120V	ac20	0	5200	Ant1	5199.94	-60000	-11.54	20	Pass
40C 120V	ac20	0	5200	Ant1	5199.94	-60000	-11.54	20	Pass
50C 120V	ac20	0	5200	Ant1	5199.94	-60000	-11.54	20	Pass
-20C 120V	ac20	0	5240	Ant1	5239.94	-60000	-11.45	20	Pass
-10C 120V	ac20	0	5240	Ant1	5239.96	-40000	-7.63	20	Pass
0C 120V	ac20	0	5240	Ant1	5239.94	-60000	-11.45	20	Pass
10C 120V	ac20	0	5240	Ant1	5239.94	-60000	-11.45	20	Pass
20C 120V	ac20	0	5240	Ant1	5239.94	-60000	-11.45	20	Pass
30C 120V	ac20	0	5240	Ant1	5239.94	-60000	-11.45	20	Pass
40C 120V	ac20	0	5240	Ant1	5239.96	-40000	-7.63	20	Pass
50C 120V	ac20	0	5240	Ant1	5239.94	-60000	-11.45	20	Pass
-20C 120V	ac20	0	5260	Ant1	5259.94	-60000	-11.41	20	Pass
-10C 120V	ac20	0	5260	Ant1	5259.94	-60000	-11.41	20	Pass
0C 120V	ac20	0	5260	Ant1	5259.94	-60000	-11.41	20	Pass
10C 120V	ac20	0	5260	Ant1	5259.94	-60000	-11.41	20	Pass
20C 120V	ac20	0	5260	Ant1	5259.94	-60000	-11.41	20	Pass
30C 120V	ac20	0	5260	Ant1	5259.94	-60000	-11.41	20	Pass
40C 120V	ac20	0	5260	Ant1	5259.96	-40000	-7.6	20	Pass
50C 120V	ac20	0	5260	Ant1	5259.96	-40000	-7.6	20	Pass
-20C 120V	ac20	0	5280	Ant1	5279.94	-60000	-11.36	20	Pass
-10C 120V	ac20	0	5280	Ant1	5279.94	-60000	-11.36	20	Pass
0C 120V	ac20	0	5280	Ant1	5279.94	-60000	-11.36	20	Pass
10C 120V	ac20	0	5280	Ant1	5279.94	-60000	-11.36	20	Pass
20C 120V	ac20	0	5280	Ant1	5279.94	-60000	-11.36	20	Pass
30C 120V	ac20	0	5280	Ant1	5279.94	-60000	-11.36	20	Pass
40C 120V	ac20	0	5280	Ant1	5279.94	-60000	-11.36	20	Pass
50C 120V	ac20	0	5280	Ant1	5279.94	-60000	-11.36	20	Pass
-20C 120V	ac20	0	5320	Ant1	5319.94	-60000	-11.28	20	Pass
-10C 120V	ac20	0	5320	Ant1	5319.94	-60000	-11.28	20	Pass
0C 120V	ac20	0	5320	Ant1	5319.94	-60000	-11.28	20	Pass
10C 120V	ac20	0	5320	Ant1	5319.94	-60000	-11.28	20	Pass
20C 120V	ac20	0	5320	Ant1	5319.94	-60000	-11.28	20	Pass
30C 120V	ac20	0	5320	Ant1	5319.92	-80000	-15.04	20	Pass
40C 120V	ac20	0	5320	Ant1	5319.94	-60000	-11.28	20	Pass
50C 120V	ac20	0	5320	Ant1	5319.94	-60000	-11.28	20	Pass
-20C 120V	ac20	0	5500	Ant1	5499.94	-60000	-10.91	20	Pass
-10C 120V	ac20	0	5500	Ant1	5499.94	-60000	-10.91	20	Pass
0C 120V	ac20	0	5500	Ant1	5499.94	-60000	-10.91	20	Pass
10C 120V	ac20	0	5500	Ant1	5499.94	-60000	-10.91	20	Pass
20C 120V	ac20	0	5500	Ant1	5499.94	-60000	-10.91	20	Pass
30C 120V	ac20	0	5500	Ant1	5499.94	-60000	-10.91	20	Pass
40C 120V	ac20	0	5500	Ant1	5499.94	-60000	-10.91	20	Pass
50C 120V	ac20	0	5500	Ant1	5499.94	-60000	-10.91	20	Pass
-20C 120V	ac20	0	5600	Ant1	5599.94	-60000	-10.71	20	Pass
-10C 120V	ac20	0	5600	Ant1	5599.94	-60000	-10.71	20	Pass
0C 120V	ac20	0	5600	Ant1	5599.94	-60000	-10.71	20	Pass
10C 120V	ac20	0	5600	Ant1	5599.92	-80000	-14.29	20	Pass
20C 120V	ac20	0	5600	Ant1	5599.94	-60000	-10.71	20	Pass
30C 120V	ac20	0	5600	Ant1	5599.94	-60000	-10.71	20	Pass
40C 120V	ac20	0	5600	Ant1	5599.94	-60000	-10.71	20	Pass
50C 120V	ac20	0	5600	Ant1	5599.94	-60000	-10.71	20	Pass

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-20C 120V	ac20	0	5700	Ant1	5699.76	-240000	-42.11	20	Pass
-10C 120V	ac20	0	5700	Ant1	5699.96	-40000	-7.02	20	Pass
0C 120V	ac20	0	5700	Ant1	5700.08	80000	14.04	20	Pass
10C 120V	ac20	0	5700	Ant1	5700.06	60000	10.53	20	Pass
20C 120V	ac20	0	5700	Ant1	5699.76	-240000	-42.11	20	Pass
30C 120V	ac20	0	5700	Ant1	5699.9	-100000	-17.54	20	Pass
40C 120V	ac20	0	5700	Ant1	5699.9	-100000	-17.54	20	Pass
50C 120V	ac20	0	5700	Ant1	5699.9	-100000	-17.54	20	Pass
-20C 120V	ac20	0	5720	Ant1	5719.94	-60000	-10.49	20	Pass
-10C 120V	ac20	0	5720	Ant1	5719.94	-60000	-10.49	20	Pass
0C 120V	ac20	0	5720	Ant1	5719.94	-60000	-10.49	20	Pass
10C 120V	ac20	0	5720	Ant1	5719.94	-60000	-10.49	20	Pass
20C 120V	ac20	0	5720	Ant1	5719.94	-60000	-10.49	20	Pass
30C 120V	ac20	0	5720	Ant1	5719.94	-60000	-10.49	20	Pass
40C 120V	ac20	0	5720	Ant1	5719.94	-60000	-10.49	20	Pass
50C 120V	ac20	0	5720	Ant1	5719.94	-60000	-10.49	20	Pass
-20C 120V	ac20	0	5745	Ant1	5744.94	-60000	-10.44	20	Pass
-10C 120V	ac20	0	5745	Ant1	5744.94	-60000	-10.44	20	Pass
0C 120V	ac20	0	5745	Ant1	5744.94	-60000	-10.44	20	Pass
10C 120V	ac20	0	5745	Ant1	5744.94	-60000	-10.44	20	Pass
20C 120V	ac20	0	5745	Ant1	5744.94	-60000	-10.44	20	Pass
30C 120V	ac20	0	5745	Ant1	5744.94	-60000	-10.44	20	Pass
40C 120V	ac20	0	5745	Ant1	5744.94	-60000	-10.44	20	Pass
50C 120V	ac20	0	5745	Ant1	5744.92	-80000	-13.93	20	Pass
-20C 120V	ac20	0	5785	Ant1	5784.94	-60000	-10.37	20	Pass
-10C 120V	ac20	0	5785	Ant1	5784.94	-60000	-10.37	20	Pass
0C 120V	ac20	0	5785	Ant1	5784.92	-80000	-13.83	20	Pass
10C 120V	ac20	0	5785	Ant1	5784.94	-60000	-10.37	20	Pass
20C 120V	ac20	0	5785	Ant1	5784.94	-60000	-10.37	20	Pass
30C 120V	ac20	0	5785	Ant1	5784.94	-60000	-10.37	20	Pass
40C 120V	ac20	0	5785	Ant1	5784.94	-60000	-10.37	20	Pass
50C 120V	ac20	0	5785	Ant1	5784.94	-60000	-10.37	20	Pass
-20C 120V	ac20	0	5825	Ant1	5824.92	-80000	-13.73	20	Pass
-10C 120V	ac20	0	5825	Ant1	5824.94	-60000	-10.3	20	Pass
0C 120V	ac20	0	5825	Ant1	5824.94	-60000	-10.3	20	Pass
10C 120V	ac20	0	5825	Ant1	5824.94	-60000	-10.3	20	Pass
20C 120V	ac20	0	5825	Ant1	5824.94	-60000	-10.3	20	Pass
30C 120V	ac20	0	5825	Ant1	5824.94	-60000	-10.3	20	Pass
40C 120V	ac20	0	5825	Ant1	5824.94	-60000	-10.3	20	Pass
50C 120V	ac20	0	5825	Ant1	5824.94	-60000	-10.3	20	Pass
-20C 120V	ac40	0	5190	Ant1	5189.92	-80000	-15.41	20	Pass
-10C 120V	ac40	0	5190	Ant1	5189.92	-80000	-15.41	20	Pass
0C 120V	ac40	0	5190	Ant1	5189.92	-80000	-15.41	20	Pass
10C 120V	ac40	0	5190	Ant1	5189.92	-80000	-15.41	20	Pass
20C 120V	ac40	0	5190	Ant1	5189.92	-80000	-15.41	20	Pass
30C 120V	ac40	0	5190	Ant1	5189.92	-80000	-15.41	20	Pass
40C 120V	ac40	0	5190	Ant1	5189.92	-80000	-15.41	20	Pass
50C 120V	ac40	0	5190	Ant1	5189.92	-80000	-15.41	20	Pass
-20C 120V	ac40	0	5230	Ant1	5229.92	-80000	-15.3	20	Pass
-10C 120V	ac40	0	5230	Ant1	5229.92	-80000	-15.3	20	Pass
0C 120V	ac40	0	5230	Ant1	5229.92	-80000	-15.3	20	Pass
10C 120V	ac40	0	5230	Ant1	5229.92	-80000	-15.3	20	Pass
20C 120V	ac40	0	5230	Ant1	5229.92	-80000	-15.3	20	Pass
30C 120V	ac40	0	5230	Ant1	5229.92	-80000	-15.3	20	Pass
40C 120V	ac40	0	5230	Ant1	5229.92	-80000	-15.3	20	Pass
50C 120V	ac40	0	5230	Ant1	5229.92	-80000	-15.3	20	Pass
-20C 120V	ac40	0	5270	Ant1	5269.92	-80000	-15.18	20	Pass
-10C 120V	ac40	0	5270	Ant1	5269.92	-80000	-15.18	20	Pass
0C 120V	ac40	0	5270	Ant1	5269.92	-80000	-15.18	20	Pass
10C 120V	ac40	0	5270	Ant1	5269.92	-80000	-15.18	20	Pass
20C 120V	ac40	0	5270	Ant1	5269.92	-80000	-15.18	20	Pass
30C 120V	ac40	0	5270	Ant1	5269.92	-80000	-15.18	20	Pass
40C 120V	ac40	0	5270	Ant1	5269.92	-80000	-15.18	20	Pass
50C 120V	ac40	0	5270	Ant1	5269.92	-80000	-15.18	20	Pass
-20C 120V	ac40	0	5310	Ant1	5309.92	-80000	-15.07	20	Pass
-10C 120V	ac40	0	5310	Ant1	5309.92	-80000	-15.07	20	Pass
0C 120V	ac40	0	5310	Ant1	5309.92	-80000	-15.07	20	Pass
10C 120V	ac40	0	5310	Ant1	5309.92	-80000	-15.07	20	Pass
20C 120V	ac40	0	5310	Ant1	5309.88	-120000	-22.6	20	Pass
30C 120V	ac40	0	5310	Ant1	5309.92	-80000	-15.07	20	Pass
40C 120V	ac40	0	5310	Ant1	5309.92	-80000	-15.07	20	Pass

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50C 120V	ac40	0	5310	Ant1	5309.92	-80000	-15.07	20	Pass
-20C 120V	ac40	0	5510	Ant1	5509.88	-120000	-21.78	20	Pass
-10C 120V	ac40	0	5510	Ant1	5509.92	-80000	-14.52	20	Pass
0C 120V	ac40	0	5510	Ant1	5509.92	-80000	-14.52	20	Pass
10C 120V	ac40	0	5510	Ant1	5509.92	-80000	-14.52	20	Pass
20C 120V	ac40	0	5510	Ant1	5509.92	-80000	-14.52	20	Pass
30C 120V	ac40	0	5510	Ant1	5509.92	-80000	-14.52	20	Pass
40C 120V	ac40	0	5510	Ant1	5509.92	-80000	-14.52	20	Pass
50C 120V	ac40	0	5510	Ant1	5509.92	-80000	-14.52	20	Pass
-20C 120V	ac40	0	5590	Ant1	5589.92	-80000	-14.31	20	Pass
-10C 120V	ac40	0	5590	Ant1	5589.92	-80000	-14.31	20	Pass
0C 120V	ac40	0	5590	Ant1	5589.92	-80000	-14.31	20	Pass
10C 120V	ac40	0	5590	Ant1	5589.92	-80000	-14.31	20	Pass
20C 120V	ac40	0	5590	Ant1	5589.92	-80000	-14.31	20	Pass
30C 120V	ac40	0	5590	Ant1	5589.92	-80000	-14.31	20	Pass
40C 120V	ac40	0	5590	Ant1	5589.92	-80000	-14.31	20	Pass
50C 120V	ac40	0	5590	Ant1	5589.88	-120000	-21.47	20	Pass
-20C 120V	ac40	0	5670	Ant1	5669.92	-80000	-14.11	20	Pass
-10C 120V	ac40	0	5670	Ant1	5669.92	-80000	-14.11	20	Pass
0C 120V	ac40	0	5670	Ant1	5669.88	-120000	-21.16	20	Pass
10C 120V	ac40	0	5670	Ant1	5669.92	-80000	-14.11	20	Pass
20C 120V	ac40	0	5670	Ant1	5669.92	-80000	-14.11	20	Pass
30C 120V	ac40	0	5670	Ant1	5669.88	-120000	-21.16	20	Pass
40C 120V	ac40	0	5670	Ant1	5669.92	-80000	-14.11	20	Pass
50C 120V	ac40	0	5670	Ant1	5669.92	-80000	-14.11	20	Pass
-20C 120V	ac40	0	5710	Ant1	5709.92	-80000	-14.01	20	Pass
-10C 120V	ac40	0	5710	Ant1	5709.92	-80000	-14.01	20	Pass
0C 120V	ac40	0	5710	Ant1	5709.92	-80000	-14.01	20	Pass
10C 120V	ac40	0	5710	Ant1	5709.92	-80000	-14.01	20	Pass
20C 120V	ac40	0	5710	Ant1	5709.88	-120000	-21.02	20	Pass
30C 120V	ac40	0	5710	Ant1	5709.92	-80000	-14.01	20	Pass
40C 120V	ac40	0	5710	Ant1	5709.92	-80000	-14.01	20	Pass
50C 120V	ac40	0	5710	Ant1	5709.92	-80000	-14.01	20	Pass
-20C 120V	ac40	0	5755	Ant1	5754.92	-80000	-13.9	20	Pass
-10C 120V	ac40	0	5755	Ant1	5754.88	-120000	-20.85	20	Pass
0C 120V	ac40	0	5755	Ant1	5754.92	-80000	-13.9	20	Pass
10C 120V	ac40	0	5755	Ant1	5754.92	-80000	-13.9	20	Pass
20C 120V	ac40	0	5755	Ant1	5754.92	-80000	-13.9	20	Pass
30C 120V	ac40	0	5755	Ant1	5754.92	-80000	-13.9	20	Pass
40C 120V	ac40	0	5755	Ant1	5754.92	-80000	-13.9	20	Pass
50C 120V	ac40	0	5755	Ant1	5754.92	-80000	-13.9	20	Pass
-20C 120V	ac40	0	5795	Ant1	5794.92	-80000	-13.81	20	Pass
-10C 120V	ac40	0	5795	Ant1	5794.88	-120000	-20.71	20	Pass
0C 120V	ac40	0	5795	Ant1	5794.92	-80000	-13.81	20	Pass
10C 120V	ac40	0	5795	Ant1	5794.92	-80000	-13.81	20	Pass
20C 120V	ac40	0	5795	Ant1	5794.92	-80000	-13.81	20	Pass
30C 120V	ac40	0	5795	Ant1	5794.88	-120000	-20.71	20	Pass
40C 120V	ac40	0	5795	Ant1	5794.92	-80000	-13.81	20	Pass
50C 120V	ac40	0	5795	Ant1	5794.88	-120000	-20.71	20	Pass
-20C 120V	ac80	0	5210	Ant1	5210	0	0	20	Pass
-10C 120V	ac80	0	5210	Ant1	5209.92	-80000	-15.36	20	Pass
0C 120V	ac80	0	5210	Ant1	5209.92	-80000	-15.36	20	Pass
10C 120V	ac80	0	5210	Ant1	5210.08	80000	15.36	20	Pass
20C 120V	ac80	0	5210	Ant1	5209.92	-80000	-15.36	20	Pass
30C 120V	ac80	0	5210	Ant1	5209.92	-80000	-15.36	20	Pass
40C 120V	ac80	0	5210	Ant1	5209.92	-80000	-15.36	20	Pass
50C 120V	ac80	0	5210	Ant1	5209.92	-80000	-15.36	20	Pass
-20C 120V	ac80	0	5290	Ant1	5289.92	-80000	-15.12	20	Pass
-10C 120V	ac80	0	5290	Ant1	5289.92	-80000	-15.12	20	Pass
0C 120V	ac80	0	5290	Ant1	5289.92	-80000	-15.12	20	Pass
10C 120V	ac80	0	5290	Ant1	5289.92	-80000	-15.12	20	Pass
20C 120V	ac80	0	5290	Ant1	5289.92	-80000	-15.12	20	Pass
30C 120V	ac80	0	5290	Ant1	5289.92	-80000	-15.12	20	Pass
40C 120V	ac80	0	5290	Ant1	5289.92	-80000	-15.12	20	Pass
50C 120V	ac80	0	5290	Ant1	5290	0	0	20	Pass
-20C 120V	ac80	0	5530	Ant1	5529.92	-80000	-14.47	20	Pass
-10C 120V	ac80	0	5530	Ant1	5529.76	-240000	-43.4	20	Pass
0C 120V	ac80	0	5530	Ant1	5529.92	-80000	-14.47	20	Pass
10C 120V	ac80	0	5530	Ant1	5529.92	-80000	-14.47	20	Pass
20C 120V	ac80	0	5530	Ant1	5530	0	0	20	Pass
30C 120V	ac80	0	5530	Ant1	5530	0	0	20	Pass

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40C 120V	ac80	0	5530	Ant1	5530	0	0	20	Pass
50C 120V	ac80	0	5530	Ant1	5529.92	-80000	-14.47	20	Pass
-20C 120V	ac80	0	5610	Ant1	5609.92	-80000	-14.26	20	Pass
-10C 120V	ac80	0	5610	Ant1	5609.92	-80000	-14.26	20	Pass
0C 120V	ac80	0	5610	Ant1	5609.92	-80000	-14.26	20	Pass
10C 120V	ac80	0	5610	Ant1	5609.92	-80000	-14.26	20	Pass
20C 120V	ac80	0	5610	Ant1	5609.92	-80000	-14.26	20	Pass
30C 120V	ac80	0	5610	Ant1	5609.92	-80000	-14.26	20	Pass
40C 120V	ac80	0	5610	Ant1	5609.92	-80000	-14.26	20	Pass
50C 120V	ac80	0	5610	Ant1	5609.92	-80000	-14.26	20	Pass
-20C 120V	ac80	0	5690	Ant1	5689.92	-80000	-14.06	20	Pass
-10C 120V	ac80	0	5690	Ant1	5690	0	0	20	Pass
0C 120V	ac80	0	5690	Ant1	5689.92	-80000	-14.06	20	Pass
10C 120V	ac80	0	5690	Ant1	5689.92	-80000	-14.06	20	Pass
20C 120V	ac80	0	5690	Ant1	5689.92	-80000	-14.06	20	Pass
30C 120V	ac80	0	5690	Ant1	5689.92	-80000	-14.06	20	Pass
40C 120V	ac80	0	5690	Ant1	5689.92	-80000	-14.06	20	Pass
50C 120V	ac80	0	5690	Ant1	5689.92	-80000	-14.06	20	Pass
-20C 120V	ac80	0	5775	Ant1	5774.92	-80000	-13.85	20	Pass
-10C 120V	ac80	0	5775	Ant1	5774.76	-240000	-41.56	20	Pass
0C 120V	ac80	0	5775	Ant1	5774.92	-80000	-13.85	20	Pass
10C 120V	ac80	0	5775	Ant1	5774.92	-80000	-13.85	20	Pass
20C 120V	ac80	0	5775	Ant1	5774.92	-80000	-13.85	20	Pass
30C 120V	ac80	0	5775	Ant1	5774.92	-80000	-13.85	20	Pass
40C 120V	ac80	0	5775	Ant1	5774.92	-80000	-13.85	20	Pass
50C 120V	ac80	0	5775	Ant1	5774.92	-80000	-13.85	20	Pass

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10.6 Unwanted emissions

Transmitting spurious emission test result as below:

Test Method

Radiated Mode:

1. The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned
5. Use the following spectrum analyzer settings According to C63.10:
   For Above 1GHz
   Span = wide enough to capture the peak level of the in-band emission and all spurious
   RBW = 1MHz, VBW≥RBW for peak measurement and VBW = 10Hz for average measurement, Sweep = auto, Detector function = peak, Trace = max hold.
   For Below 1GHz
   Use the following spectrum analyzer settings:
   Span = wide enough to capture the peak level of the in-band emission and all spurious
   RBW = 100 KHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average ((duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor (20log(1/duty cycle)).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.

Limit

(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.

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(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.

According to part 15.407(b), the radio emission outside the operating frequency band shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Radiated emissions which fall in the restricted bands, as defined in section15.205, must comply with the radiated emission limits specified in section 15.209.

Frequency MHz	Field Strength uV/m	Field Strength dBμV/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Transmitting spurious emission worse case test result as below:

Transmitting spurious emission test result as below:

11a 20 Modulation 5180MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBμV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10360*	52.65	Horizontal	68.20	15.55	PK	Pass
7000-40000	10360*	47.79	Vertical	68.20	20.41	PK	Pass

11a 20 Modulation 5200MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBμV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10400*	51.10	Horizontal	68.20	17.1	PK	Pass
7000-40000	10400*	47.40	Vertical	68.20	20.8	PK	Pass

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11a 20 Modulation 5240MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10480*	52.98	Horizontal	68.20	15.22	PK	Pass
7000-40000	10480*	47.91	Vertical	68.20	20.29	PK	Pass

11a 20 Modulation 5260MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10520*	54.97	Horizontal	68.20	13.23	PK	Pass
7000-40000	10520*	49.24	Vertical	68.20	18.96	PK	Pass

11a 20 Modulation 5280MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10560*	54.08	Horizontal	68.20	14.12	PK	Pass
7000-40000	10560*	48.32	Vertical	68.20	19.88	PK	Pass

11a 20 Modulation 5320MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10640	55.25	Horizontal	74.00	18.75	PK	Pass
7000-40000	10640	49.90	Horizontal	54.00	4.10	AV	Pass
7000-40000	10640	49.58	Vertical	74.00	24.42	PK	Pass

11a 20 Modulation 5500MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11000	56.89	Horizontal	74.00	17.11	PK	Pass
7000-40000	11000	51.50	Horizontal	54.00	2.50	AV	Pass
7000-40000	11000	48.04	Vertical	74.00	25.96	PK	Pass

11a 20 Modulation 5600MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11200	53.34	Horizontal	74.00	20.66	PK	Pass
7000-40000	11200	48.60	Horizontal	54.00	5.40	AV	Pass
7000-40000	11200	48.00	Vertical	74.00	26.00	PK	Pass

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11a 20 Modulation 5700MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11400	55.25	Horizontal	74.00	18.75	PK	Pass
7000-40000	11400	50.30	Horizontal	54.00	3.70	AV	Pass
7000-40000	11400	49.00	Vertical	74.00	25.00	PK	Pass

11a 20 Modulation 5720MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11440	54.26	Horizontal	74.00	19.74	PK	Pass
7000-40000	11440	49.80	Horizontal	54.00	4.20	AV	Pass
7000-40000	11440	48.47	Vertical	74.00	25.53	PK	Pass

11n HT20 Modulation 5180MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10360*	51.36	Horizontal	68.20	16.84	PK	Pass
7000-40000	10360*	47.90	Vertical	68.20	20.3	PK	Pass

11n HT20 Modulation 5200MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10400*	51.56	Horizontal	68.20	16.64	PK	Pass
7000-40000	10400*	47.59	Vertical	68.20	20.61	PK	Pass

11n HT20 Modulation 5240MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10480*	54.57	Horizontal	68.20	13.63	PK	Pass
7000-40000	10480*	48.05	Vertical	68.20	20.15	PK	Pass

11n HT20 Modulation 5260MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10520*	53.30	Horizontal	68.20	14.90	PK	Pass
7000-40000	10520*	48.11	Vertical	68.20	20.09	PK	Pass

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11n HT20 Modulation 5280MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10560*	54.03	Horizontal	68.20	14.17	PK	Pass
7000-40000	10560*	47.79	Vertical	68.20	20.41	PK	Pass

11n HT20 Modulation 5320MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10640	56.31	Horizontal	74.00	17.69	PK	Pass
7000-40000	10640	50.20	Horizontal	54.00	3.80	AV	Pass
7000-40000	10640	47.26	Vertical	74.00	26.74	PK	Pass

11n HT20 Modulation 5500MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11000	56.30	Horizontal	74.00	17.7	PK	Pass
7000-40000	11000	51.30	Horizontal	54.00	2.70	AV	Pass
7000-40000	11000	47.81	Vertical	74.00	26.19	PK	Pass

11n HT20 Modulation 5600MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11200	54.76	Horizontal	74.00	19.24	PK	Pass
7000-40000	11200	49.60	Horizontal	54.00	4.40	AV	Pass
7000-40000	11200	48.89	Vertical	74.00	25.11	PK	Pass

11n HT20 Modulation 5700MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11400	53.62	Horizontal	74.00	20.38	PK	Pass
7000-40000	11400	48.80	Horizontal	54.00	5.20	AV	Pass
7000-40000	11400	49.00	Vertical	74.00	25.00	PK	Pass

11n HT20 Modulation 5720MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11440	53.20	Horizontal	74.00	20.8	PK	Pass
7000-40000	11440	48.60	Horizontal	54.00	5.40	AV	Pass
7000-40000	11440	48.05	Vertical	74.00	25.95	PK	Pass

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11n HT40 Modulation 5190MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10380*	49.74	Horizontal	68.20	18.46	PK	Pass
7000-40000	10380*	47.53	Vertical	68.20	20.67	PK	Pass

11n HT40 Modulation 5230MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10460*	52.64	Horizontal	68.20	15.56	PK	Pass
7000-40000	10460*	47.40	Vertical	68.20	20.80	PK	Pass

11n HT40 Modulation 5270MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10540*	52.64	Horizontal	68.20	15.56	PK	Pass
7000-40000	10540*	47.55	Vertical	68.20	20.65	PK	Pass

11n HT40 Modulation 5310MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10620	54.35	Horizontal	74.00	19.65	PK	Pass
7000-40000	10620	49.60	Horizontal	74.00	4.40	AV	Pass
7000-40000	10620	51.90	Vertical	74.00	22.10	PK	Pass

11n HT40 Modulation 5510MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11020	56.11	Horizontal	74.00	17.89	PK	Pass
7000-40000	11020	51.40	Horizontal	54.00	2.60	AV	Pass
7000-40000	11020	50.69	Vertical	74.00	23.31	PK	Pass

11n HT40 Modulation 5590MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11180	54.33	Horizontal	74.00	19.67	PK	Pass
7000-40000	11180	49.60	Horizontal	54.00	4.40	AV	Pass
7000-40000	11180	50.17	Vertical	74.00	23.83	PK	Pass

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11n HT40 Modulation 5670MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11340	51.78	Horizontal	74.00	22.22	PK	Pass
7000-40000	11340	47.58	Vertical	74.00	26.42	PK	Pass

11n HT40 Modulation 5710MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11420	53.32	Horizontal	74.00	20.68	PK	Pass
7000-40000	11420	49.00	Horizontal	54.00	5.00	AV	Pass
7000-40000	11420	48.42	Vertical	74.00	25.58	PK	Pass

11ac 20 Modulation 5180MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10360*	51.40	Horizontal	68.20	16.80	PK	Pass
7000-40000	10360*	47.84	Vertical	68.20	20.36	PK	Pass

11ac 20 Modulation 5200MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10400*	51.45	Horizontal	68.20	16.75	PK	Pass
7000-40000	10400*	47.39	Vertical	68.20	20.81	PK	Pass

11ac 20 Modulation 5240MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10480*	52.45	Horizontal	68.20	15.75	PK	Pass
7000-40000	10480*	47.60	Vertical	68.20	20.60	PK	Pass

11ac 20 Modulation 5260MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10520*	53.42	Horizontal	68.20	14.78	PK	Pass
7000-40000	10520*	47.19	Vertical	68.20	21.01	PK	Pass

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11ac VHT20 Modulation 5280MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10560*	55.29	Horizontal	68.20	12.91	PK	Pass
7000-40000	10560*	48.11	Vertical	68.20	20.09	PK	Pass

11ac VHT20 Modulation 5320MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10640	54.74	Horizontal	74.00	19.26	PK	Pass
7000-40000	10640	49.60	Horizontal	54.00	4.40	AV	Pass
7000-40000	10640	47.02	Vertical	74.00	26.98	PK	Pass

11a VHT20 Modulation 5500MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11000	56.67	Horizontal	74.00	17.33	PK	Pass
7000-40000	11000	51.50	Horizontal	54.00	2.50	AV	Pass
7000-40000	11000	48.33	Vertical	74.00	25.67	PK	Pass

11ac VHT20 Modulation 5600MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11200	54.47	Horizontal	74.00	19.53	PK	Pass
7000-40000	11200	49.60	Horizontal	54.00	4.40	AV	Pass
7000-40000	11200	48.75	Vertical	74.00	25.25	PK	Pass

11ac VHT20 Modulation 5700MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11400	57.01	Horizontal	74.00	16.99	PK	Pass
7000-40000	11400	51.70	Horizontal	54.00	2.30	AV	Pass
7000-40000	11400	47.86	Vertical	74.00	26.14	PK	Pass

11ac VHT20 Modulation 5720MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11440	54.83	Horizontal	74.00	19.17	PK	Pass
7000-40000	11440	49.50	Horizontal	54.00	4.50	AV	Pass
7000-40000	11440	49.54	Vertical	74.00	24.46	PK	Pass

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11ac VHT40 Modulation 5190MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10380*	50.64	Horizontal	68.20	17.56	PK	Pass
7000-40000	10380*	47.17	Vertical	68.20	21.03	PK	Pass

11ac VHT40 Modulation 5230MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10460*	52.16	Horizontal	68.20	16.04	PK	Pass
7000-40000	10460*	49.02	Vertical	68.20	19.18	PK	Pass

11ac VHT40 Modulation 5270MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10540*	52.08	Horizontal	68.20	16.12	PK	Pass
7000-40000	10540*	47.71	Vertical	68.20	20.49	PK	Pass

11ac VHT40 Modulation 5310MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10620	54.19	Horizontal	74.00	19.81	PK	Pass
7000-40000	10620	49.60	Horizontal	54.00	4.40	AV	Pass
7000-40000	10620	47.44	Vertical	74.00	26.56	PK	Pass

11ac VHT40 Modulation 5510MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11020	57.12	Horizontal	74.00	16.88	PK	Pass
7000-40000	11020	51.90	Horizontal	54.00	2.10	AV	Pass
7000-40000	11020	47.54	Vertical	74.00	26.46	PK	Pass

11ac VHT40 Modulation 5590MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11180	54.61	Horizontal	74.00	19.39	PK	Pass
7000-40000	11180	50.30	Horizontal	54.00	3.70	AV	Pass
7000-40000	11180	48.13	Vertical	74.00	25.87	PK	Pass

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11ac VHT40 Modulation 5670MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11340	53.23	Horizontal	74.00	20.77	PK	Pass
7000-40000	11340	49.00	Horizontal	54.00	5.00	AV	Pass
7000-40000	11340	48.07	Vertical	74.00	25.93	PK	Pass

11ac VHT40 Modulation 5710MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11420	54.44	Horizontal	74.00	19.56	PK	Pass
7000-40000	11420	49.60	Horizontal	54.00	4.40	AV	Pass
7000-40000	11060	48.72	Vertical	74.00	25.28	PK	Pass

11ac VHT80 Modulation 5210MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10420*	50.22	Horizontal	68.20	17.98	PK	Pass
7000-40000	10420*	47.46	Vertical	68.20	20.74	PK	Pass

11ac VHT80 Modulation 5290MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	10580*	51.82	Horizontal	68.20	16.38	PK	Pass
7000-40000	10580*	48.75	Vertical	68.20	19.45	PK	Pass

11ac VHT80 Modulation 5530MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11060	54.05	Horizontal	74.00	19.95	PK	Pass
7000-40000	11060	49.20	Horizontal	54.00	4.80	AV	Pass
7000-40000	11060	47.79	Vertical	74.00	26.21	PK	Pass

11ac VHT80 Modulation 5610MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11220	52.01	Horizontal	74.00	21.99	PK	Pass
7000-40000	11220	47.60	Horizontal	54.00	6.40	AV	Pass
7000-40000	11220	47.94	Vertical	74.00	26.06	PK	Pass

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11ac VHT80 Modulation 5690MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	MHz	dBuV/m		dBµV/m	dB		
1000-7000	--	--	Horizontal	74.00	--	PK	Pass
1000-7000	--	--	Vertical	74.00	--	PK	Pass
7000-40000	11380	50.74	Horizontal	74.00	23.26	PK	Pass
7000-40000	11380	47.85	Vertical	74.00	26.15	PK	Pass

(1) Above 1GHz Corrector factor= Antenna Factor +Cable Loss - Amp. Factor.
(2) Below 1GHz Corrector factor= Antenna Factor +Cable Loss.
(3) "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.
(4) All the test result for unwanted emissions and band edge (included the restricted bands) are shown from page 38 to 47. Straddle channels 138(5690MHz), 142(5710MHz) and 144 (5720MHz) were tested separately."
(5) We test all modes and only the worst case for each bandwidth recorded in the report.
(6) Testing is carried out with frequency rang 30MHz to 40GHz, which data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
(7) The Low frequency, which start from 9KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

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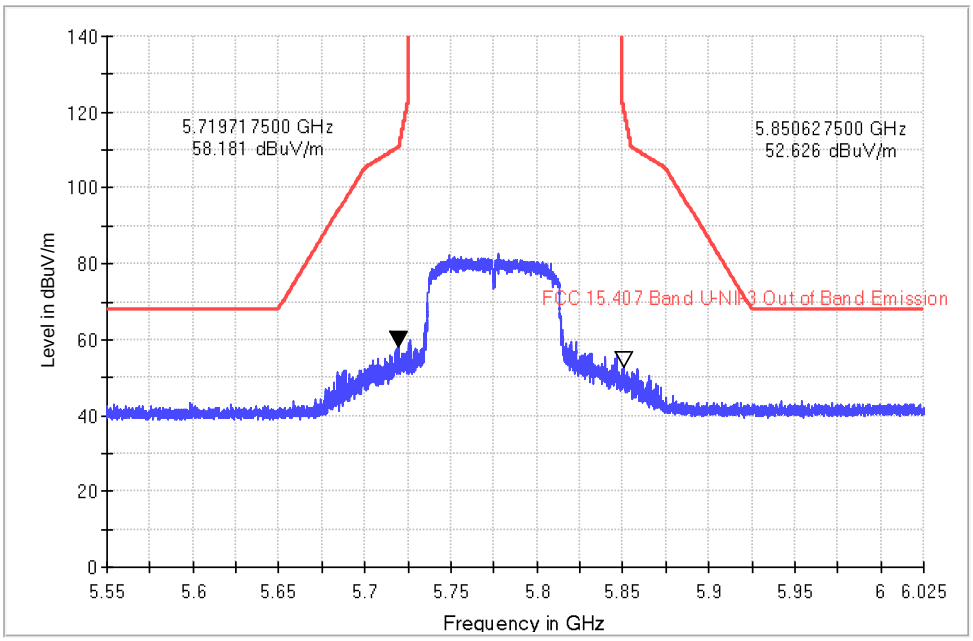
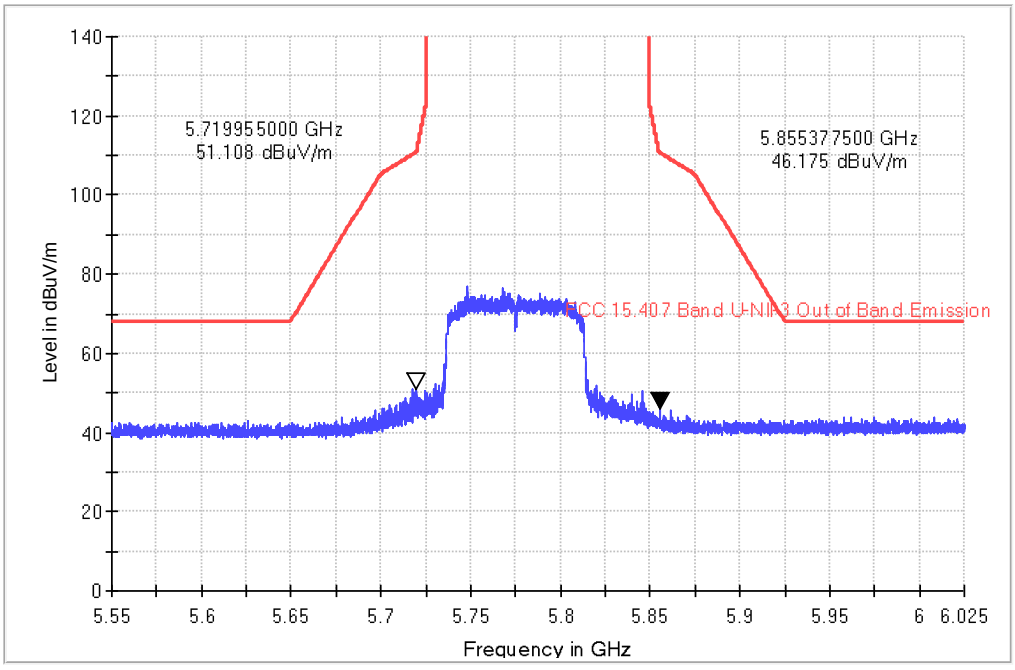
The worst case (which is subject to the maximum EIRP) of Radiated Emission for 5745-5725MHz

Out of Band Emission
802.11a: CH 5745MHz
Horizontal



Vertical



The worst case of Radiated Emission below 1GHz:

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30-1000MHz Radiated Emission

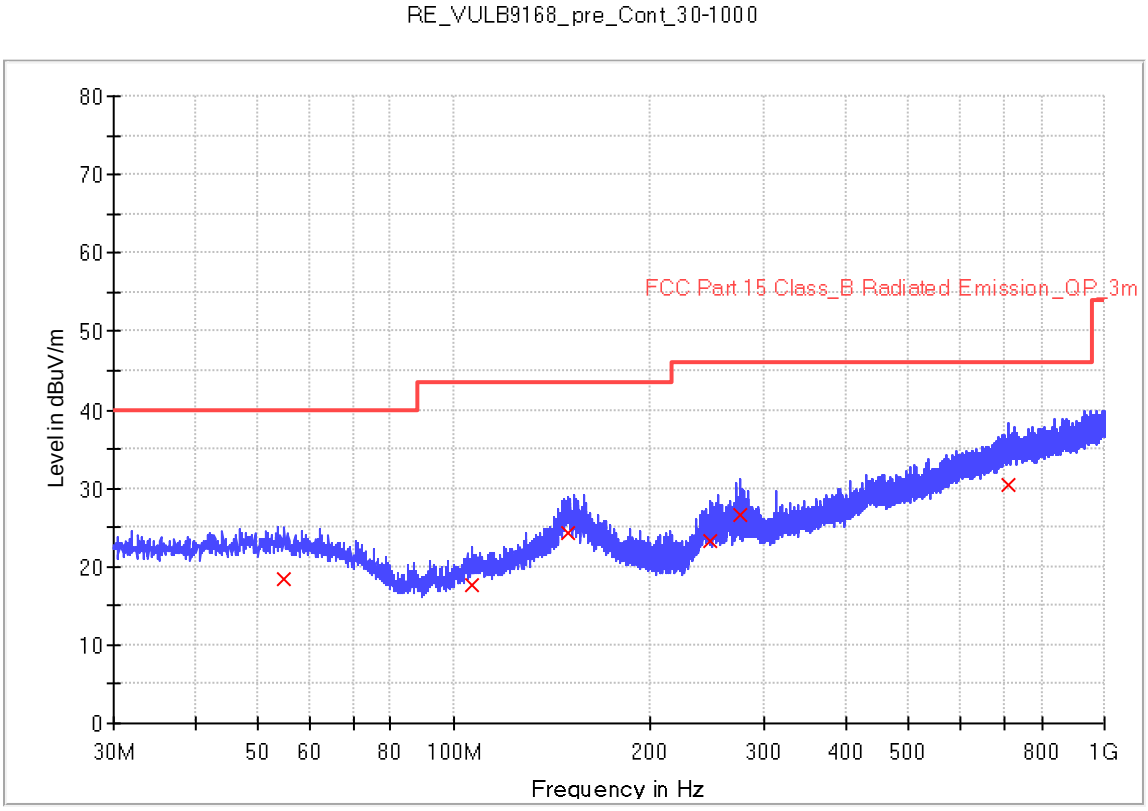
EUT Information

EUT Name:	Acoustic Thermal Imager
Model:	Fotric 860MiX
Client:	FOTRIC INC
Op Cond:	Power on, TX_5610MHz at 802.11AC80, AC 120V/60Hz
Operator:	Huali CHENG
Test Spec:	FCC Part 15.209(a)
Comment:	Horizontal
Sample No:	SHA-801877-2

Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

Hardware Setup:	RE_VULB9168
Receiver:	[ESR 3]
Level Unit:	dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
30 MHz - 1 GHz	48.5 kHz	PK+	120 kHz	0.2 s	20 dB



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Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)
54.920000	18.3	1000.0	120.000	115.0	H	108.0	20.4	21.7
106.280000	17.6	1000.0	120.000	203.0	H	87.0	16.8	25.9
150.080000	24.3	1000.0	120.000	198.0	H	69.0	20.9	19.2
248.400000	23.3	1000.0	120.000	200.0	H	32.0	19.9	22.7
275.320000	26.6	1000.0	120.000	185.0	H	125.0	20.7	19.4
712.920000	30.3	1000.0	120.000	126.0	H	318.0	30.7	15.7

(continuation of the "Limit and Margin" table from column 16 ...)

Frequency (MHz)	Limit - QPK (dBuV/m)	Comment
54.920000	40.0	
106.280000	43.5	
150.080000	43.5	
248.400000	46.0	
275.320000	46.0	
712.920000	46.0	

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)
Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

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30-1000MHz Radiated Emission

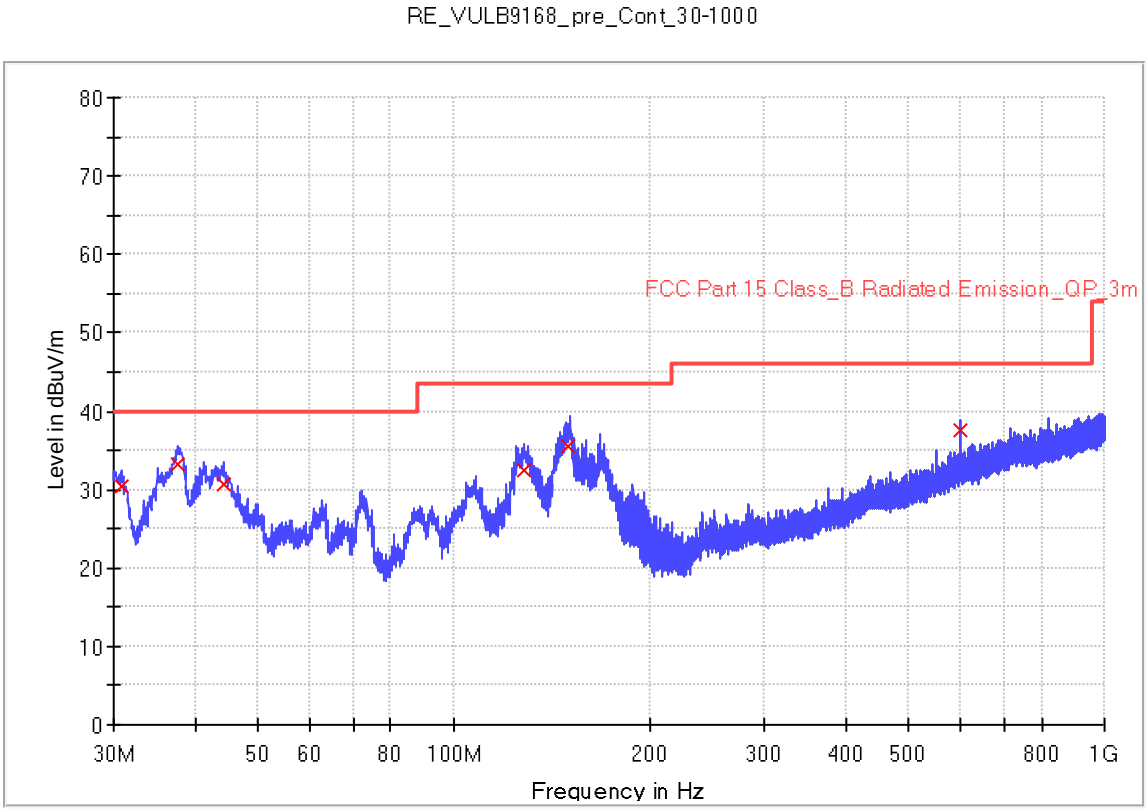
EUT Information

EUT Name:	Acoustic Thermal Imager
Model:	Fotric 860MiX
Client:	FOTRIC INC
Op Cond:	Power on, TX_5610MHz at 802.11AC80, AC 120V/60Hz
Operator:	Huali CHENG
Test Spec:	FCC Part 15.209(a)
Comment:	Vertical
Sample No:	SHA-801877-2

Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

Hardware Setup:	RE_VULB9168
Receiver:	[ESR 3]
Level Unit:	dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
30 MHz - 1 GHz	48.5 kHz	PK+	120 kHz	0.2 s	20 dB



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Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)
30.880000	30.3	1000.0	120.000	100.0	V	325.0	19.3	9.7
37.760000	33.3	1000.0	120.000	112.0	V	95.0	19.7	6.7
44.200000	30.6	1000.0	120.000	106.0	V	126.0	20.3	9.4
127.840000	32.5	1000.0	120.000	125.0	V	109.0	19.0	11.0
149.680000	35.6	1000.0	120.000	132.0	V	32.0	20.9	7.9
600.000000	37.6	1000.0	120.000	109.0	V	69.0	29.1	8.4

(continuation of the "Limit and Margin" table from column 16 ...)

Frequency (MHz)	Limit - QPK (dBuV/m)	Comment
30.880000	40.0	
37.760000	40.0	
44.200000	40.0	
127.840000	43.5	
149.680000	43.5	
600.000000	46.0	

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)
Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

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11 Test Equipment List

List of Test Instruments
Test Site1

	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE DATE
C	Signal spectrum analyzer	Agilent	N9020B	MY59050168	2024-2-19	2025-2-18
RE	EMI Test Receiver	Rohde & Schwarz	ESR3	101906	2023-8-1	2024-7-31
	Signal Analyzer	Rohde & Schwarz	FSV40	101091	2023-8-1	2024-7-31
	Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	961	2021-9-23	2024-9-22
	Horn Antenna	Rohde & Schwarz	HF907	102393	2021-4-14	2024-4-13
	Horn Antenna	Rohde & Schwarz	HF907	102393	2024-4-14	2027-4-13
	Pre-amplifier	Shenzhen HzEMC	HPA-081843	HYPA23026	2024-4-16	2025-4-15
	Loop antenna	Rohde & Schwarz	HFH2-Z2	100443	2023-6-26	2024-6-25
	Loop antenna	Rohde & Schwarz	HFH2-Z2	100443	2024-6-26	2025-6-25
	DOUBLE-RIDGED WAVEGUIDE HORN WITH PRE-AMPLIFIER (18 GHZ - 40 GHZ)	ETS-Lindgren	3116C	00246076	2023-7-7	2026-7-6
	3m Semi-anechoic chamber	TDK	9X6X6	----	2021-5-8	2024-5-7
	3m Semi-anechoic chamber	TDK	9X6X6	----	2024-5-8	2027-5-7
CE	EMI Test Receiver	Rohde & Schwarz	ESR3	101907	2023-8-1	2024-7-31
	LISN	Rohde & Schwarz	ENV216	101924	2023-8-1	2024-7-31

Measurement Software Information			
Test Item	Software	Manufacturer	Version
C	MTS 8310	MWRFtest	3.0.0.0
	Power Viewer	Rohde & Schwarz	V 11.0
RE	EMC 32	Rohde & Schwarz	V10.50.40
CE	EMC 32	Rohde & Schwarz	V9.15.03

C - Conducted RF tests

- Conducted peak output power
- 6dB Occupied Bandwidth
- Power spectral density*
- Conducted Band Edge and Out-of-Band Emissions

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12 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Items	Extended Uncertainty
Conducted Disturbance at Mains Terminals	150kHz to 30MHz, LISN, 3.16dB
Radiated Disturbance	9kHz to 30MHz, 3.52dB 30MHz to 1GHz, 5.03dB (Horizontal) 5.12dB (Vertical) 1GHz to 18GHz, 5.49dB 18GHz to 40GHz, 5.63dB
RF Conducted Measurement	Power related： 1.16dB Frequency related： 6.00×10^{-8}

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2021, clause 4.4.3 and 4.5.1.

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13 Photographs of Test Set-ups

Refer to the < Test Setup photos >.

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14 Photographs of EUT

Refer to the < External Photos > & < Internal Photos >.

----------End of Test Report----------

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