



FCC PART 15C TEST REPORT No.I22Z60417-IOT04

for

Wingtech Group (Hong Kong) Limited

5G Mobile Phone

TMAF025G

With

FCC ID: 2APXW-TMAF025G

Hardware Version: V2.0

Software Version: TMAF025G_0.01.01

Issued Date: 2022-05-14

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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REPORT HISTORY

| Report Number | Revision | Description | Issue Date |
|----------------------|-----------------|--------------------|-------------------|
| I22Z60417-IOT04 | Rev.0 | 1st edition | 2022-05-14 |

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1. TEST LABORATORY

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Conducted testing Location: CTTL(Huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China100191

1.3. Testing Environment

Normal Temperature: 15-35°C

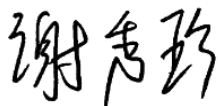
Relative Humidity: 20-75%

1.4. Project date

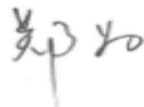
Testing Start Date: 2022-03-10

Testing End Date: 2022-05-14

1.5. Signature



Xie Xiuzhen
(Prepared this test report)



Zheng Wei
(Reviewed this test report)



Hu Xiaoyu
(Approved this test report)



2. CLIENT INFORMATION

2.1 Applicant Information

Company Name: Wingtech Group (Hong Kong) Limited
Address: Flat/RM 1802 18/F, Podium Plaza, 5 Hanoi Road, Tsim Sha Tsui, KL,
HK
City: HK
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Country: China
Telephone: +86-21-53529900
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2.2 Manufacturer Information

Company Name: Wingtech Group (Hong Kong) Limited
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HK
City: HK
Postal Code: /
Country: China
Telephone: +86-21-53529900
Fax: /

3. EQUIPMENT UNDER TEST (EUT) AND

ANCILLARY EQUIPMENT (AE)

3.1. About EUT

| | |
|---------------------|--|
| Description | 5G Mobile Phone |
| Model name | TMAF025G |
| FCC ID | 2APXW-TMAF025G |
| WLAN Frequency Band | ISM Bands: -5150MHz~5250MHz -5250MHz~5350MHz -5470MHz~5725MHz |
| Type of modulation | OFDM |
| Antenna | Integral Antenna |
| Voltage | 3.85V |

3.2. Internal Identification of EUT used during the test

| EUT ID* | SN or IMEI | HW Version | SW Version |
|---------|-----------------|------------|------------------|
| UT92a | 861690060017957 | V2.0 | TMAF025G_0.01.01 |
| UT07a | 861690060005747 | V2.0 | TMAF025G_0.01.01 |

*EUT ID: is used to identify the test sample in the lab internally.

UT07a is used for conduction test, UT92a is used for radiation test.

3.3. Internal Identification of AE used during the test

| AE ID* | Description | SN |
|-----------------|--|----|
| AE1 | Battery | / |
| AE2 | Charger | / |
| AE3 | USB Cable | / |
| AE1 | | |
| Model | RE001 | |
| Manufacturer | SUNWODA ELECTRONIC CO ., LTD | |
| Capacity | 4500mAh | |
| Nominal Voltage | | |
| AE2 | | |
| Model | BLJ-QC06HU | |
| Manufacturer | Zhongshan Baolijin Electronic Co., Ltd | |
| Length of cable | / | |
| AE3 | | |
| Model | USB AM TO TYPE-C2.0 | |
| Manufacturer | SUNTOPS ELECTRONICS CO.,LTD | |

Length of cable /

*AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

The Equipment under Test (EUT) is a model of 5G Mobile Phone with integrated antenna and inbuilt battery.

It has Bluetooth (EDR)function.

It consists of normal options: travel charger, USB cable.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.

3.5. Interpretation of the Test Environment

For the test methods, the test environment uncertainty figures correspond to an expansion factor k=2.

Measurement Uncertainty

| Parameter | Uncertainty |
|-------------|-------------|
| temperature | 0.48°C |
| humidity | 2 % |
| DC voltages | 0.003V |

4. REFERENCE DOCUMENTS

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

| | | |
|-------------------------|--|---------|
| FCC Part15 | Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices | 2018 |
| ANSI C63.10 | Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz | 2013 |
| UNII: KDB 789033 D02 | General U-NII Test Procedures New Rules v02r01 | 2017-12 |

5. LABORATORY ENVIRONMENT

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

| SUMMARY OF MEASUREMENT RESULTS | Sub-clause of Part15E | Sub-clause of IC | Verdict |
|---|-----------------------|------------------|---------|
| Maximum Output Power | 15.407 | / | P |
| Peak Power Spectral Density | 15.407 | / | P |
| Occupied 26dB Bandwidth | 15.403 | / | P |
| Band edge compliance (Radiated) | 15.209 | / | P |
| Transmitter spurious emissions (Radiated) | 15.407 | / | P |
| AC Powerline Conducted Emission (150kHz- 30MHz) | 15.407 | / | P |
| Frequency Stability | 15.407 | / | P |
| 99% Occupied bandwidth | / | / | P |
| Transmit Power Control | 15.407 | / | NA |

Please refer to **ANNEX A** for detail.

Terms used in Verdict column

| | |
|----|---|
| P | Pass, The EUT complies with the essential requirements in the standard. |
| NM | Not measured, The test was not measured by CTTL |
| NA | Not Applicable, The test was not applicable |
| F | Fail, The EUT does not comply with the essential requirements in the standard |

6.2. Statements

CTTL has evaluated the test cases requested by the client/manufacture as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.1.

This report only deals with the WLAN function among the features described in section 3.

6.3. Test Conditions

For this report, all the test cases are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

| | |
|-------------|-------|
| Temperature | 26°C |
| Voltage | 3.85V |
| Humidity | 44% |

7. TEST EQUIPMENTS UTILIZED

Conducted test system

| No. | Equipment | Model | Serial Number | Manufacturer | Calibration Period | Calibration Due date |
|-----|------------------------|--------|---------------|-----------------|--------------------|----------------------|
| 1 | Vector Signal Analyzer | FSQ40 | 200089 | Rohde & Schwarz | 1 year | 2022-05-24 |
| 2 | Test Receiver | ESCI 7 | 100344 | R&S | 1 year | 2023-03-21 |
| 3 | LISN | ENV216 | 101200 | R&S | 1 year | 2022-05-30 |
| 4 | Shielding Room | S81 | / | ETS-Lindgren | / | / |

Radiated emission test system

| No. | Equipment | Model | Serial Number | Manufacturer | Calibration Period | Calibration Due date |
|-----|---------------|-----------|---------------|--------------|--------------------|----------------------|
| 1 | Test Receiver | ESW44 | 103023 | R&S | 1 year | 2022-10-28 |
| 2 | EMI Antenna | VULB 9163 | 302 | SCHWARZBECK | 1 year | 2022-12-28 |
| 3 | EMI Antenna | 3115 | 00167250 | ETS-Lindgren | 1 year | 2022-07-01 |

※The Test Receiver with series number of 100344 is within the calibration period when used.

8. Measurement Uncertainty

8.1 Transmitter Output Power

Measurement Uncertainty: 0.387dB,k=1.96

8.2 Peak Power Spectral Density

Measurement Uncertainty: 0.705dB,k=1.96

8.3 Occupied Channel Bandwidth

Measurement Uncertainty: 60.80Hz,k=1.96

8.4 Band Edges Compliance

Measurement Uncertainty : 0.62dB,k=1.96

8.5 Spurious Emissions

Conducted (k=1.96)

| Frequency Range | Uncertainty(dB) |
|--|-----------------|
| $30\text{MHz} \leq f \leq 2\text{GHz}$ | 1.22 |
| $2\text{GHz} \leq f \leq 3.6\text{GHz}$ | 1.22 |
| $3.6\text{GHz} \leq f \leq 8\text{GHz}$ | 1.22 |
| $8\text{GHz} \leq f \leq 12.75\text{GHz}$ | 1.51 |
| $12.75\text{GHz} \leq f \leq 26\text{GHz}$ | 1.51 |
| $26\text{GHz} \leq f \leq 40\text{GHz}$ | 1.59 |

Radiated (k=2)

| Frequency Range | Uncertainty(dB) |
|---|-----------------|
| 9kHz-30MHz | / |
| $30\text{MHz} \leq f \leq 1\text{GHz}$ | 5.40 |
| $1\text{GHz} \leq f \leq 18\text{GHz}$ | 4.32 |
| $18\text{GHz} \leq f \leq 40\text{GHz}$ | 5.26 |

8.6.AC Power-line Conducted Emission

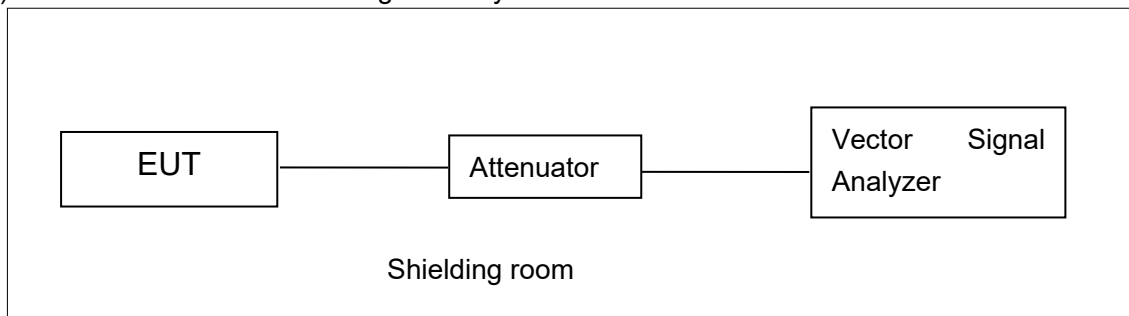
Measurement Uncertainty : 3.08,k=2

ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

A.1.1. Conducted Measurements

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode.
- 3). Set the EUT to the required channel.
- 4). Set the spectrum analyzer to start measurement.
- 5). Record the values. Vector Signal Analyzer

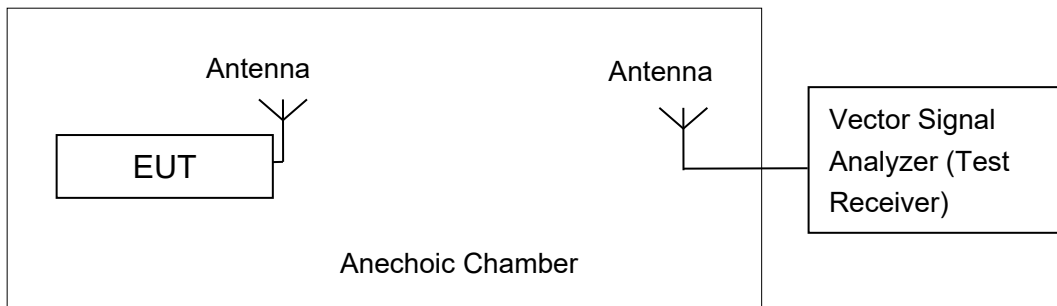


A.1.2. Radiated Emission Measurements

In the case of radiated emission, the used settings are as follows,

Sweep frequency from 30 MHz to 1GHz, RBW = 100 kHz, VBW = 300 kHz;

Sweep frequency from 1 GHz to 26GHz, RBW = 1MHz, VBW = 10Hz;



The measurement is made according to KDB 789033

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.

A.2. Maximum output Power

Measurement Limit and Method:

| Standard | Frequency (MHz) | Limit (dBm) |
|------------------------|-----------------|--------------------|
| FCC CRF Part 15.407(a) | 5150MHz~5250MHz | 24dBm |
| | 5250MHz~5350MHz | 24dBm or 11+10logB |
| | 5470MHz~5725MHz | 24dBm or 11+10logB |

Limit use the less value, and B is the 26dB bandwidth.

The measurement method SA-2 is made according to KDB 789033

Note:

For straddle channel 20MHz Bandwidth 5720MHz, Conducted Output Power Limit:

802.11a=11+10*log(B)=24.86, B=38.65/2+5=24.325MHz,

802.11n-HT20=11+10*log(B)=24.57, B=35.55/2+5=22.775MHz,

802.11ac-VHT20=11+10*log(B)=23.82, B=28.30/2+5=19.15MHz,

For straddle channel 40/80MHz Bandwidth, conducted output power limit=24 dBm

802.11n-HT40: B=45.92/2+15=37.96MHz,

802.11ac-VHT40: B=44.96/2+15=37.48MHz,

802.11ac-VHT80: B=86.40/2+15=78.20MHz

Measurement Results:

802.11a mode

| Mode | Frequency | Test Result (dBm) | | | | | | | |
|---------|-----------|-------------------|---|----|----|----|----|----|----|
| | | Data Rate (Mbps) | | | | | | | |
| | | 6 | 9 | 12 | 18 | 24 | 36 | 48 | 54 |
| 802.11a | 5180MHz | 18.24 | / | / | / | / | / | / | / |
| | 5200MHz | 18.76 | / | / | / | / | / | / | / |
| | 5240MHz | 18.52 | / | / | / | / | / | / | / |
| | 5260MHz | 18.88 | / | / | / | / | / | / | / |
| | 5280MHz | 18.39 | / | / | / | / | / | / | / |
| | 5320MHz | 18.07 | / | / | / | / | / | / | / |
| | 5500MHz | 18.11 | / | / | / | / | / | / | / |
| | 5580MHz | 19.49 | / | / | / | / | / | / | / |
| | 5700MHz | 19.85 | / | / | / | / | / | / | / |
| 5720MHz | 19.96 | / | / | / | / | / | / | / | |

The data rate 6Mbps is selected as worse condition, and the following cases are performed with this condition.

802.11n-HT20 mode

| Mode | Frequency | Test Result (dBm) | | | | | | | |
|-------------------|-----------|-------------------|------|------|------|------|------|------|------|
| | | Data Rate | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| 802.11n (HT20) | 5180MHz | 19.05 | / | / | / | / | / | / | / |
| | 5200MHz | 19.09 | / | / | / | / | / | / | / |
| | 5240MHz | 19.11 | / | / | / | / | / | / | / |
| | 5260MHz | 19.53 | / | / | / | / | / | / | / |
| | 5280MHz | 19.83 | / | / | / | / | / | / | / |
| | 5320MHz | 19.47 | / | / | / | / | / | / | / |
| | 5500MHz | 18.07 | / | / | / | / | / | / | / |
| | 5580MHz | 19.26 | / | / | / | / | / | / | / |
| | 5700MHz | 16.28 | / | / | / | / | / | / | / |
| | 5720MHz | 19.42 | / | / | / | / | / | / | / |

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

802.11ac-HT20 mode

| Mode | Frequency | Test Result (dBm) | | | | | | | | |
|--------------------|-----------|-------------------|------|------|------|------|------|------|------|------|
| | | Data Rate | | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 | MCS8 |
| 802.11ac (HT20) | 5180MHz | 17.81 | / | / | / | / | / | / | / | / |
| | 5200MHz | 17.85 | / | / | / | / | / | / | / | / |
| | 5240MHz | 17.83 | / | / | / | / | / | / | / | / |
| | 5260MHz | 18.27 | / | / | / | / | / | / | / | / |
| | 5280MHz | 18.38 | / | / | / | / | / | / | / | / |
| | 5320MHz | 18.13 | / | / | / | / | / | / | / | / |
| | 5500MHz | 17.83 | / | / | / | / | / | / | / | / |
| | 5580MHz | 17.81 | / | / | / | / | / | / | / | / |
| | 5700MHz | 17.80 | / | / | / | / | / | / | / | / |
| | 5720MHz | 18.18 | / | / | / | / | / | / | / | / |

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

802.11n-HT40 mode

| Mode | Frequency | Test Result (dBm) | | | | | | | |
|-------------------|-----------|-------------------|------|------|------|------|------|------|------|
| | | Data Rate | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| 802.11n (HT40) | 5190MHz | 15.33 | / | / | / | / | / | / | / |
| | 5230MHz | 18.07 | / | / | / | / | / | / | / |

| | | | | | | | | | | |
|--|---------|-------|---|---|---|---|---|---|---|---|
| | 5270MHz | 18.63 | / | / | / | / | / | / | / | / |
| | 5310MHz | 18.69 | / | / | / | / | / | / | / | / |
| | 5510MHz | 15.87 | / | / | / | / | / | / | / | / |
| | 5550MHz | 18.23 | / | / | / | / | / | / | / | / |
| | 5670MHz | 17.76 | / | / | / | / | / | / | / | / |
| | 5710MHz | 18.70 | / | / | / | / | / | / | / | / |

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

802.11ac-HT40 mode

| Mode | Frequency | Test Result (dBm) | | | | | | | | | |
|--------------------|-----------|-------------------|------|------|------|------|------|------|------|------|------|
| | | Data Rate | | | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 | MCS8 | MCS9 |
| 802.11ac (HT40) | 5190MHz | 16.02 | / | / | / | / | / | / | / | / | / |
| | 5230MHz | 16.76 | / | / | / | / | / | / | / | / | / |
| | 5270MHz | 17.43 | / | / | / | / | / | / | / | / | / |
| | 5310MHz | 17.36 | / | / | / | / | / | / | / | / | / |
| | 5510MHz | 17.16 | / | / | / | / | / | / | / | / | / |
| | 5550MHz | 17.18 | / | / | / | / | / | / | / | / | / |
| | 5670MHz | 16.89 | / | / | / | / | / | / | / | / | / |
| | 5710MHz | 16.90 | / | / | / | / | / | / | / | / | / |

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

802.11ac-HT80 mode

| Mode | Frequency | Test Result (dBm) | | | | | | | | | |
|--------------------|-----------|-------------------|------|------|------|------|------|------|------|------|------|
| | | Data Rate | | | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 | MCS8 | MCS9 |
| 802.11ac (HT80) | 5210MHz | 14.16 | / | / | / | / | / | / | / | / | / |
| | 5290MHz | 15.35 | / | / | / | / | / | / | / | / | / |
| | 5530MHz | 14.81 | / | / | / | / | / | / | / | / | / |
| | 5610MHz | 16.33 | / | / | / | / | / | / | / | / | / |
| | 5690MHz | 16.52 | / | / | / | / | / | / | / | / | / |

The data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

The duty cycle of all mode are 100%.

A.3. Peak Power Spectral Density (conducted)

Measurement Limit:

| Standard | Frequency (MHz) | Limit (dBm/MHz) |
|------------------------|-----------------|-----------------|
| FCC CRF Part 15.407(a) | 5150MHz~5250MHz | 11 |
| | 5250MHz~5350MHz | 11 |
| | 5470MHz~5725MHz | 11 |

The output power measurement method Section F is made according to KDB 789033

Measurement Results:

| Mode | Frequency | Power Spectral Density (dBm/MHz) | Conclusion |
|-----------------|-----------|----------------------------------|------------|
| 802.11a | 5180 MHz | 8.27 | P |
| | 5200 MHz | 8.36 | P |
| | 5240 MHz | 8.47 | P |
| | 5260 MHz | 9.10 | P |
| | 5280 MHz | 9.19 | P |
| | 5320 MHz | 8.98 | P |
| | 5500 MHz | 8.77 | P |
| | 5580 MHz | 8.81 | P |
| | 5700 MHz | 8.90 | P |
| | 5720 MHz | 9.00 | P |
| 802.11n HT20 | 5180 MHz | 8.12 | P |
| | 5200 MHz | 8.24 | P |
| | 5240 MHz | 8.28 | P |
| | 5260 MHz | 8.93 | P |
| | 5280 MHz | 9.13 | P |
| | 5320 MHz | 9.05 | P |
| | 5500 MHz | 8.63 | P |
| | 5580 MHz | 8.72 | P |
| | 5700 MHz | 8.69 | P |
| | 5720 MHz | 8.76 | P |
| 802.11n HT40 | 5190 MHz | 4.52 | P |
| | 5230 MHz | 4.49 | P |
| | 5270 MHz | 5.25 | P |
| | 5310 MHz | 4.94 | P |
| | 5510 MHz | 4.38 | P |
| | 5550 MHz | 4.28 | P |
| | 5670 MHz | 4.29 | P |
| | 5710 MHz | 4.88 | P |
| 802.11ac | 5210MHz | -0.28 | P |

| | | | |
|------|---------|-------|---|
| HT80 | 5290MHz | 0.34 | P |
| | 5530MHz | -0.37 | P |
| | 5610MHz | -0.51 | P |
| | 5690MHz | -0.21 | P |

Conclusion: PASS

A.4. Occupied 26dB Bandwidth(conducted)

Measurement Limit:

| Standard | Limit (kHz) |
|----------------------------|-------------|
| FCC 47 CFR Part 15.403 (i) | / |

The measurement is made according to KDB 789033

Measurement Uncertainty:

| | |
|-------------------------|---------|
| Measurement Uncertainty | 60.80Hz |
|-------------------------|---------|

Measurement Result:

| Mode | Frequency | Occupied 26dB Bandwidth (MHz) | | conclusion |
|-----------------|-----------|--------------------------------|-------|------------|
| | | Fig. | Value | |
| 802.11a | 5180 MHz | Fig.1 | 22.15 | P |
| | 5200 MHz | Fig.2 | 23.40 | P |
| | 5240 MHz | Fig.3 | 21.35 | P |
| | 5260 MHz | Fig.4 | 26.60 | P |
| | 5280 MHz | Fig.5 | 26.00 | P |
| | 5320 MHz | Fig.6 | 25.60 | P |
| | 5500 MHz | Fig.7 | 28.30 | P |
| | 5580 MHz | Fig.8 | 37.50 | P |
| | 5700 MHz | Fig.9 | 37.70 | P |
| | 5720 MHz | Fig.10 | 38.05 | P |
| 802.11n HT20 | 5180 MHz | Fig.11 | 24.05 | P |
| | 5200 MHz | Fig.12 | 23.20 | P |
| | 5240 MHz | Fig.13 | 22.55 | P |
| | 5260 MHz | Fig.14 | 27.50 | P |
| | 5280 MHz | Fig.15 | 26.60 | P |
| | 5320 MHz | Fig.16 | 30.40 | P |
| | 5500 MHz | Fig.17 | 30.60 | P |
| | 5580 MHz | Fig.18 | 35.30 | P |
| | 5700 MHz | Fig.19 | 32.60 | P |
| | 5720 MHz | Fig.20 | 35.55 | P |
| 802.11n HT40 | 5190 MHz | Fig.21 | 41.04 | P |
| | 5230 MHz | Fig.22 | 40.96 | P |

| | | | | |
|------------------|----------|--------|-------|---|
| | 5270 MHz | Fig.23 | 41.04 | P |
| | 5310 MHz | Fig.24 | 40.88 | P |
| | 5510 MHz | Fig.25 | 44.00 | P |
| | 5550 MHz | Fig.26 | 45.36 | P |
| | 5670 MHz | Fig.27 | 49.68 | P |
| | 5710 MHz | Fig.28 | 45.92 | P |
| 802.11ac HT80 | 5210MHz | Fig.29 | 81.44 | P |
| | 5290MHz | Fig.30 | 80.96 | P |
| | 5530MHz | Fig.31 | 82.08 | P |
| | 5610MHz | Fig.32 | 86.88 | P |
| | 5690MHz | Fig.33 | 86.40 | P |

Conclusion: PASS

Test graphs as below:

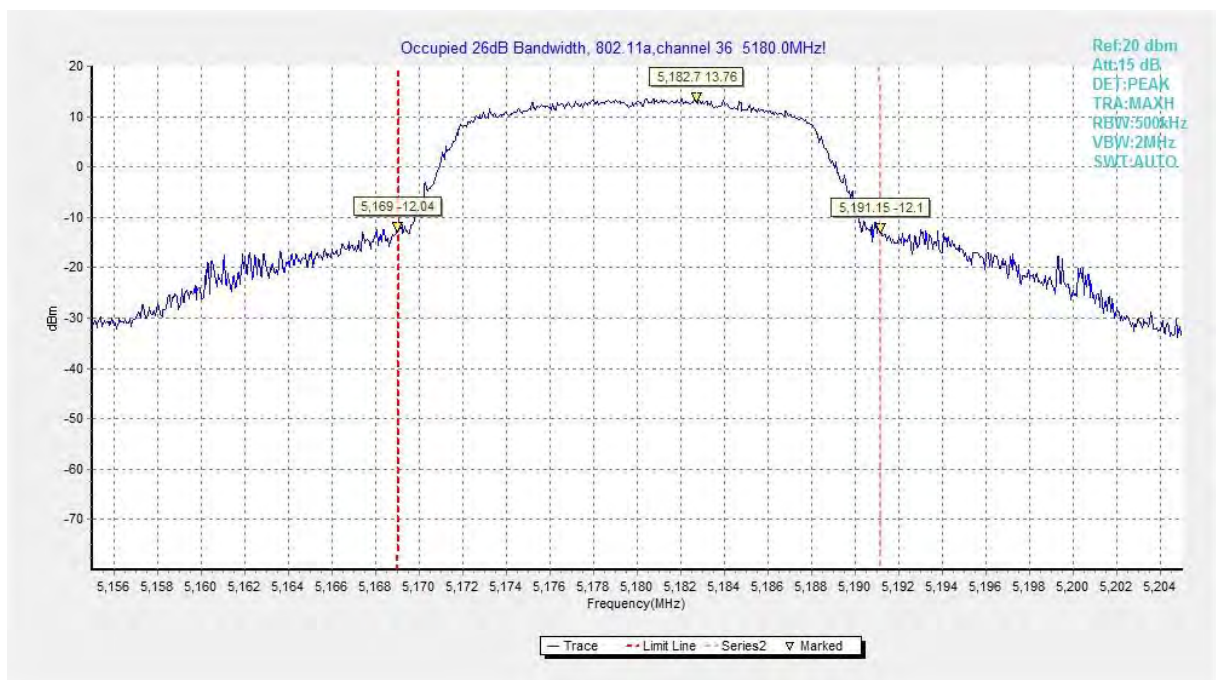


Fig.1 Occupied 26dB Bandwidth (802.11a, 5180MHz)

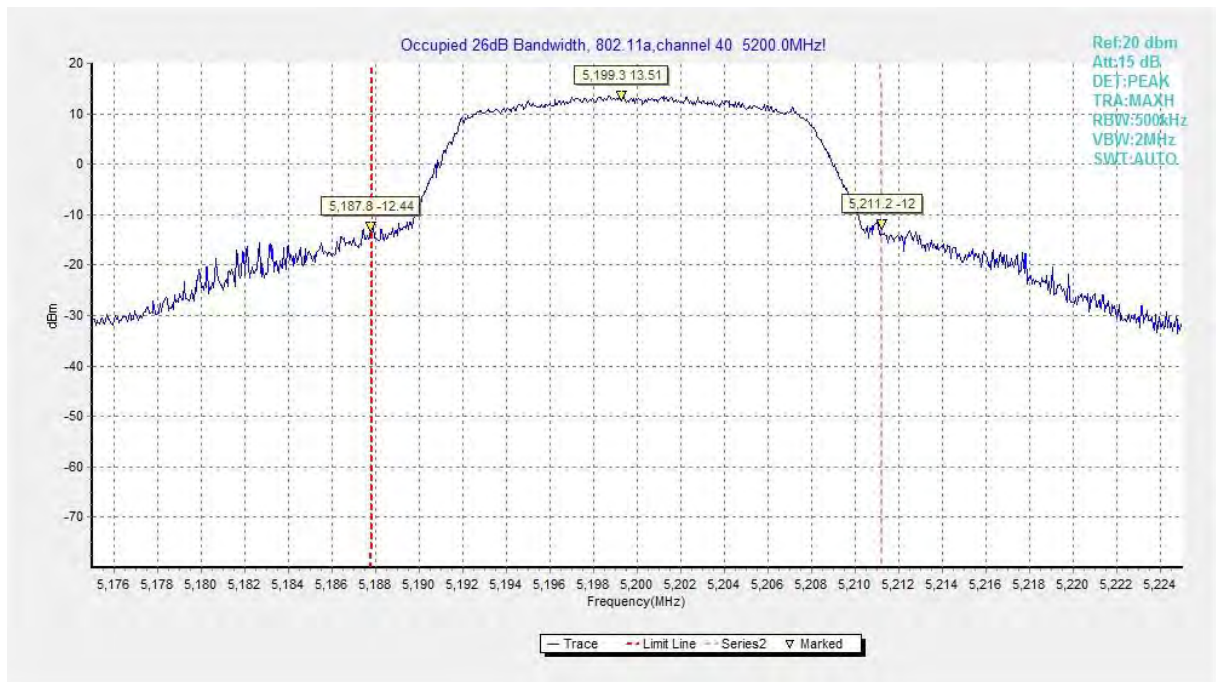


Fig.2 Occupied 26dB Bandwidth (802.11a, 5200MHz)

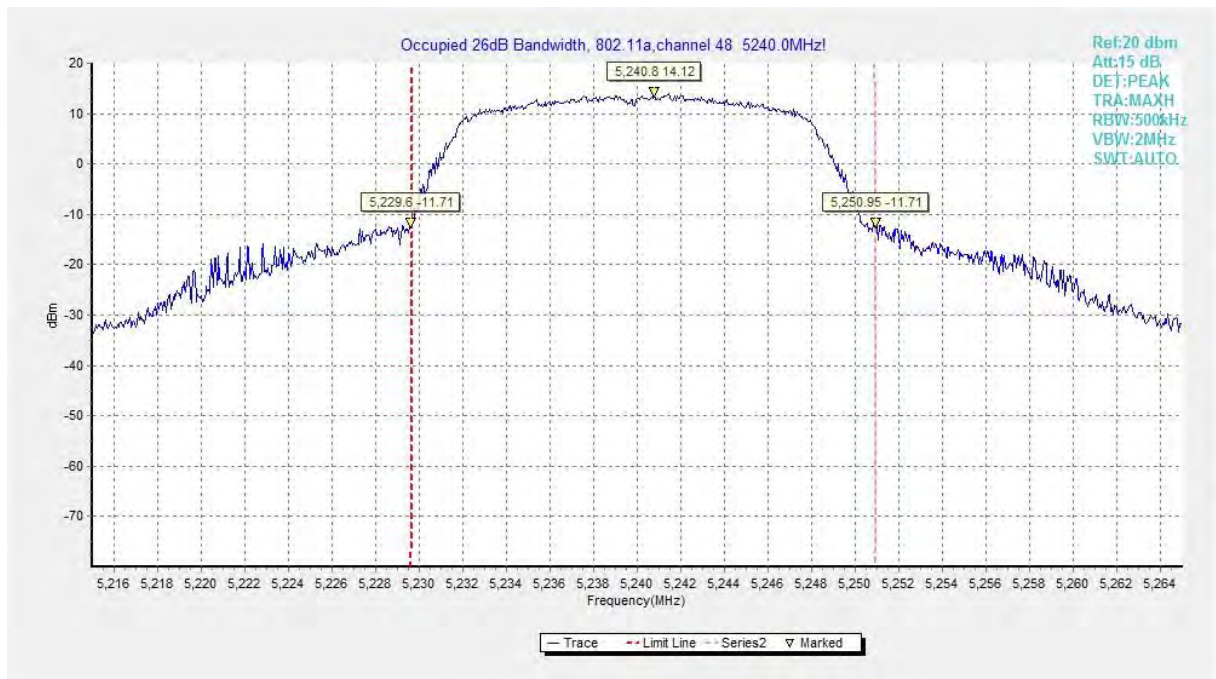


Fig.3 Occupied 26dB Bandwidth (802.11a, 5240MHz)

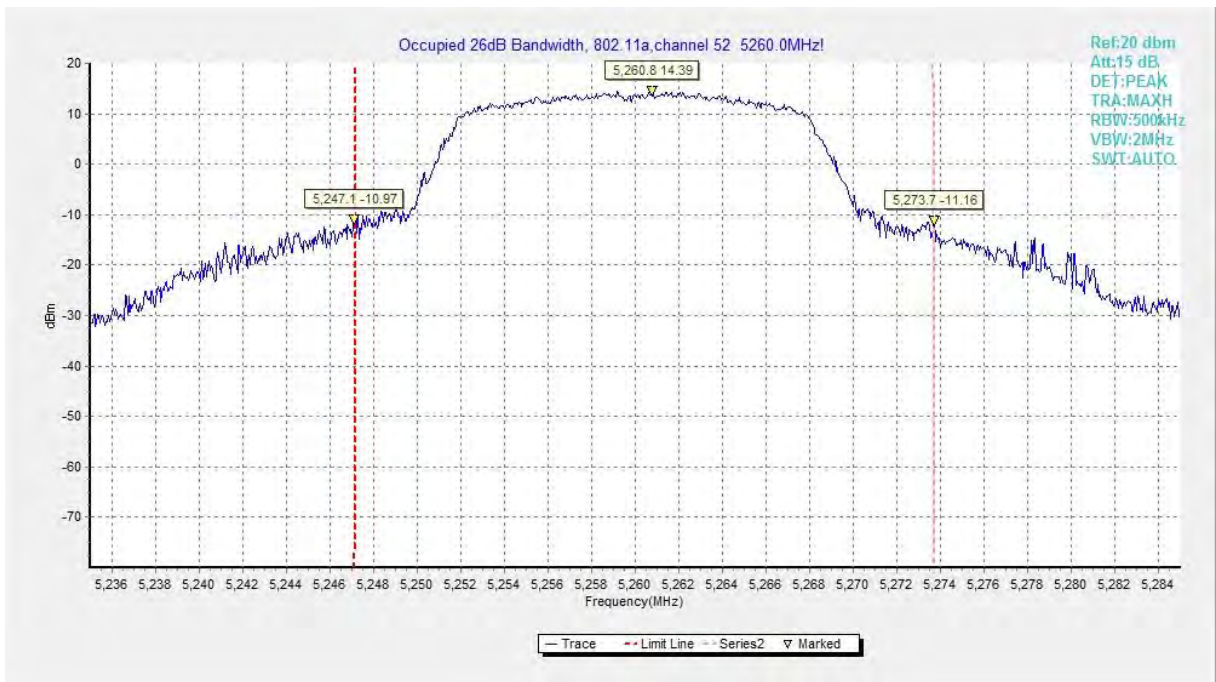


Fig.4 Occupied 26dB Bandwidth (802.11a, 5260MHz)

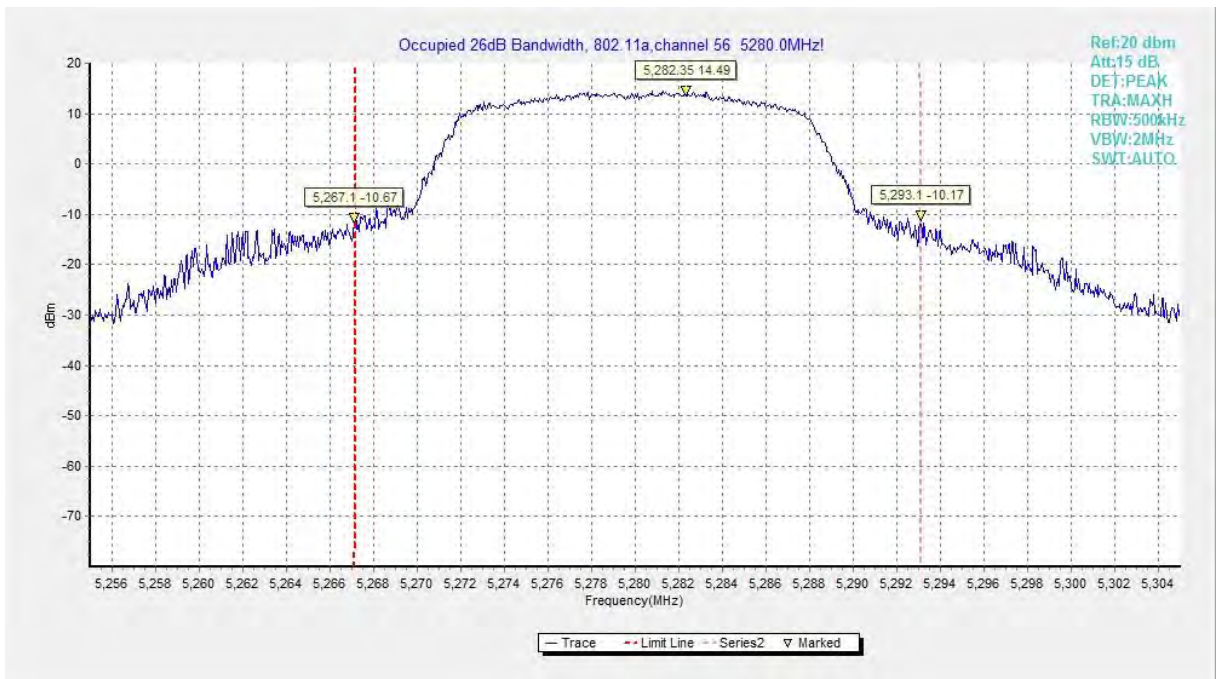


Fig.5 Occupied 26dB Bandwidth (802.11a, 5280MHz)

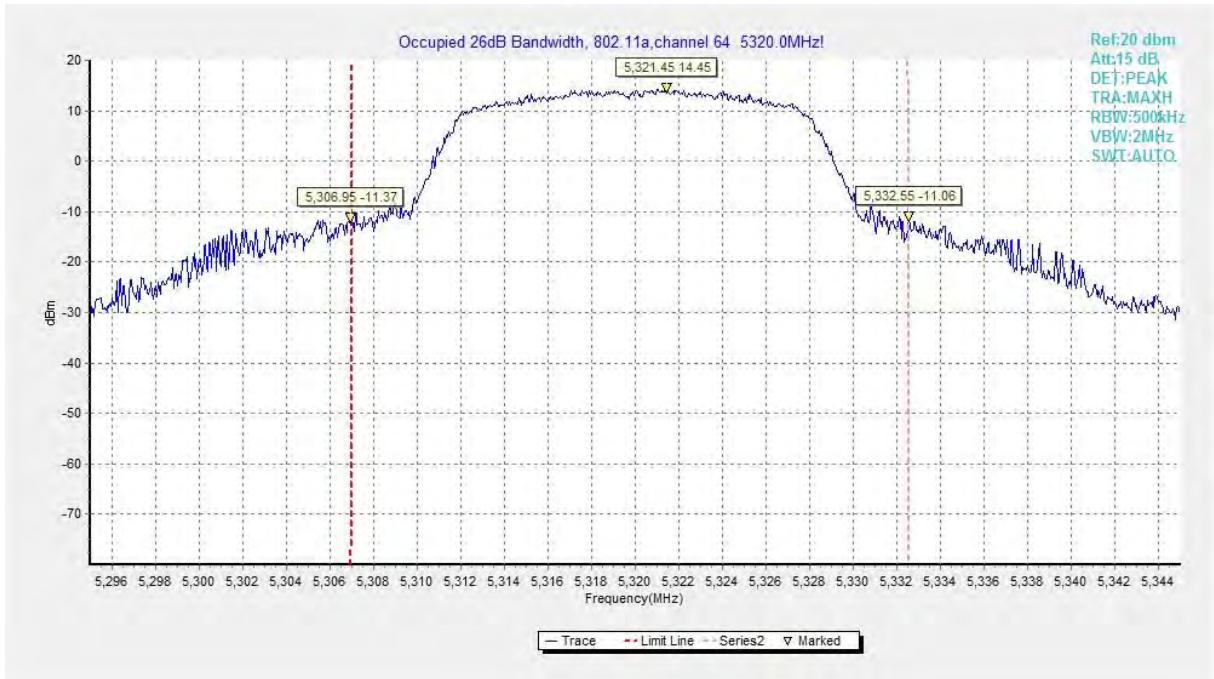


Fig.6 Occupied 26dB Bandwidth (802.11a, 5320MHz)

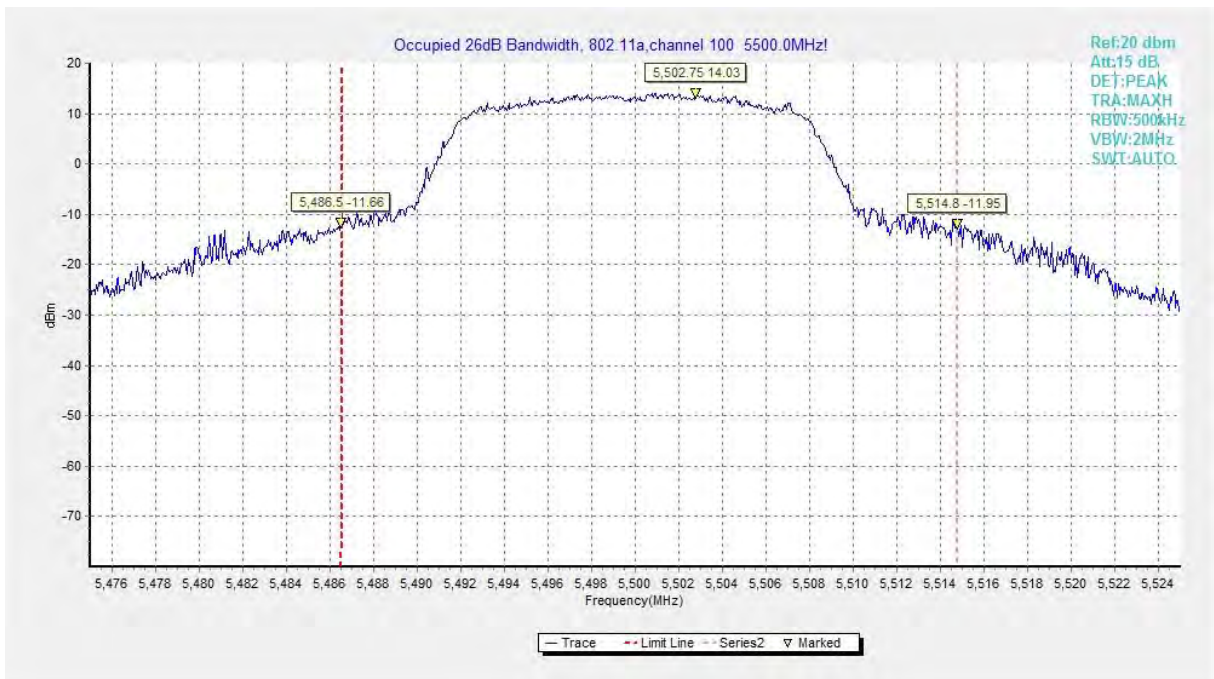


Fig.7 Occupied 26dB Bandwidth (802.11a, 5500MHz)

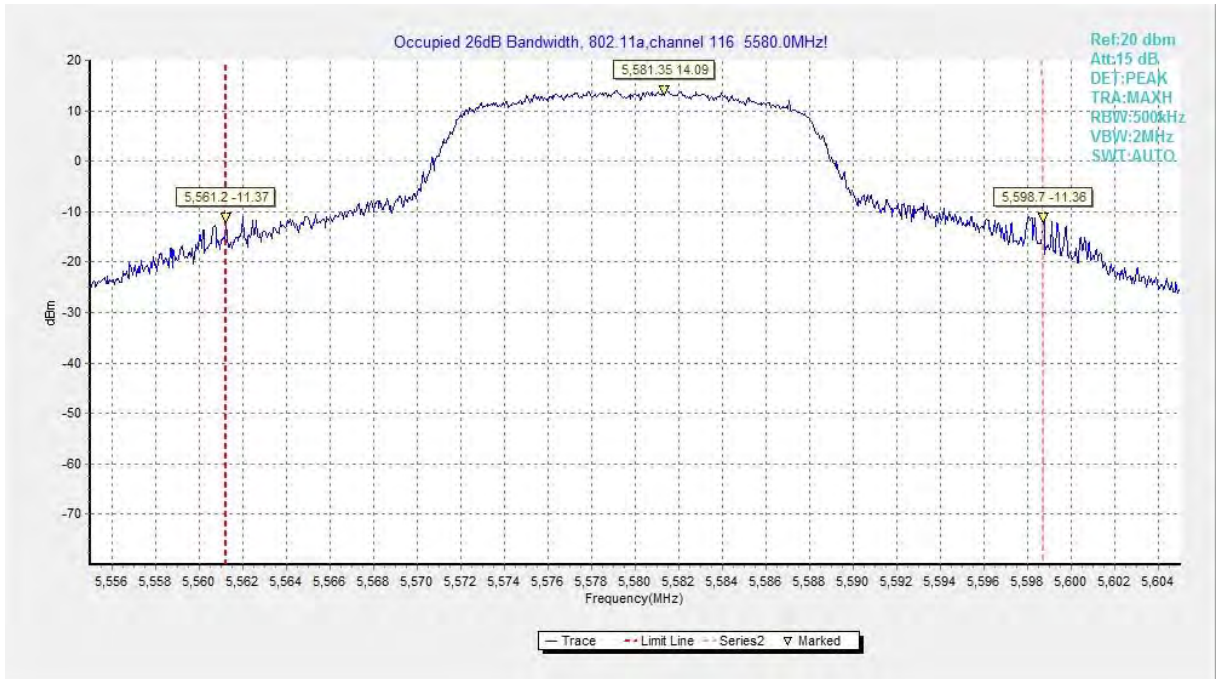


Fig.8 Occupied 26dB Bandwidth (802.11a, 5580MHz)

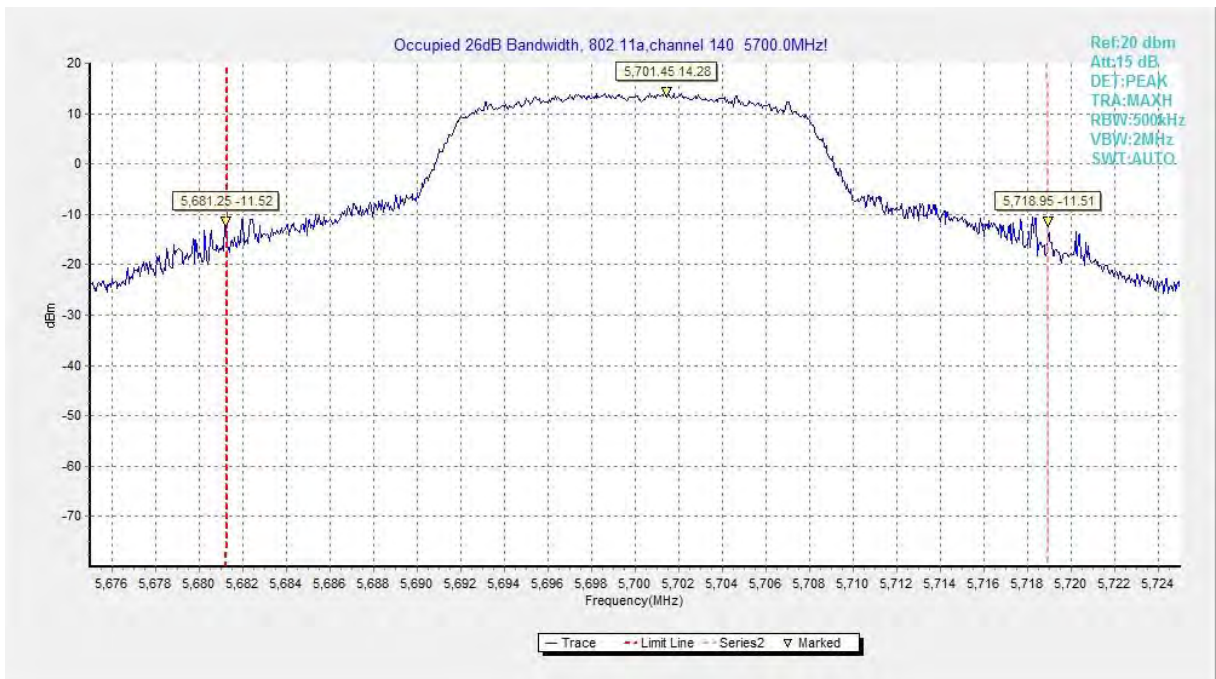


Fig.9 Occupied 26dB Bandwidth (802.11a, 5700MHz)



Fig.10 Occupied 26dB Bandwidth (802.11a, 5720MHz)

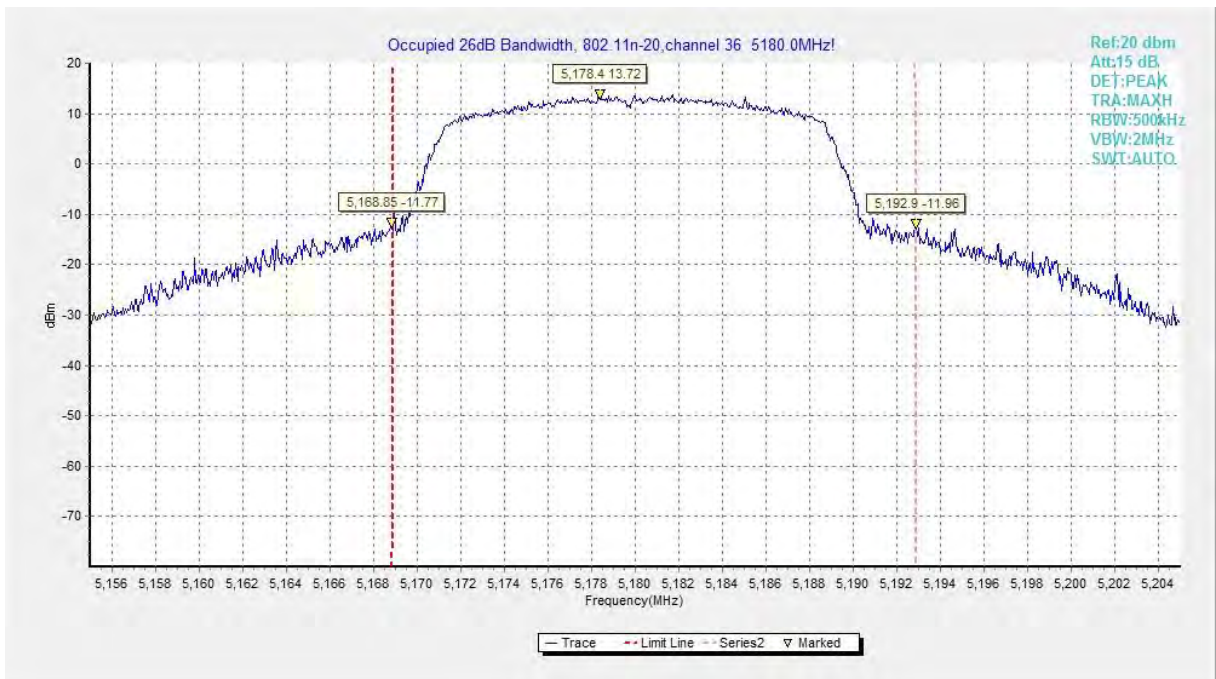


Fig.11 Occupied 26dB Bandwidth (802.11n-HT20, 5180MHz)

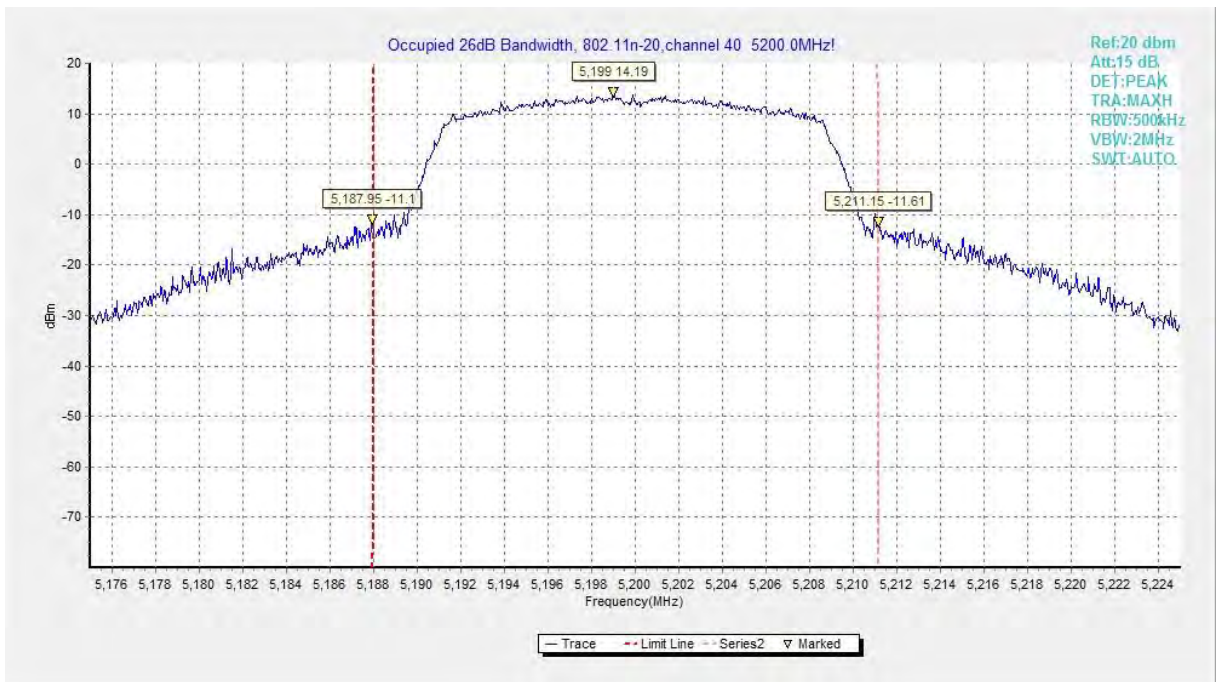


Fig.12 Occupied 26dB Bandwidth (802.11n-HT20, 5200MHz)

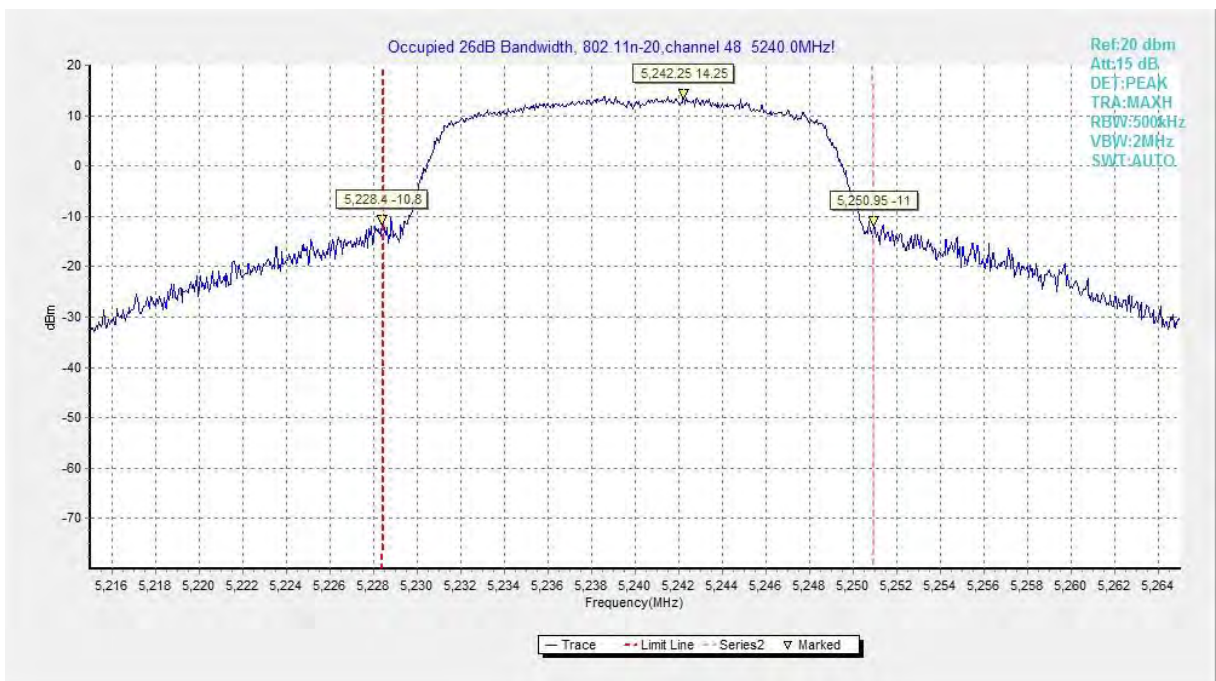


Fig.13 Occupied 26dB Bandwidth (802.11n-HT20, 5240MHz)

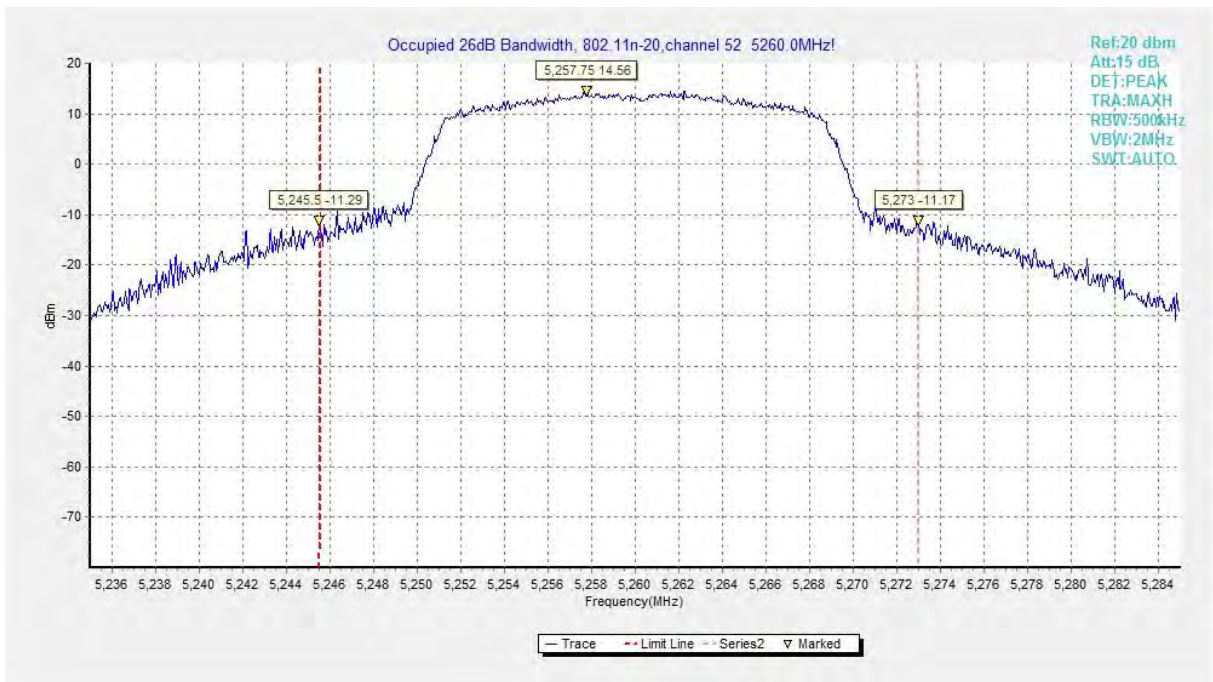


Fig.14 Occupied 26dB Bandwidth (802.11n-HT20, 5260MHz)

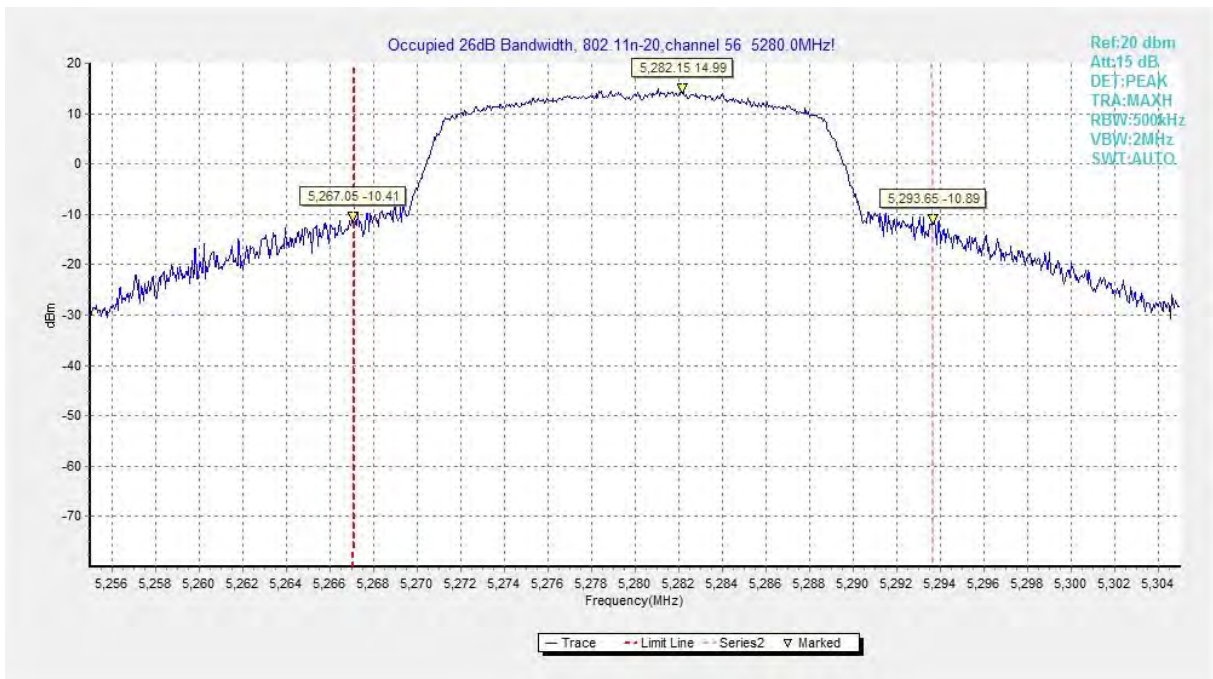


Fig.15 Occupied 26dB Bandwidth (802.11n-HT20, 5280MHz)



Fig.16 Occupied 26dB Bandwidth (802.11n-HT20, 5320MHz)

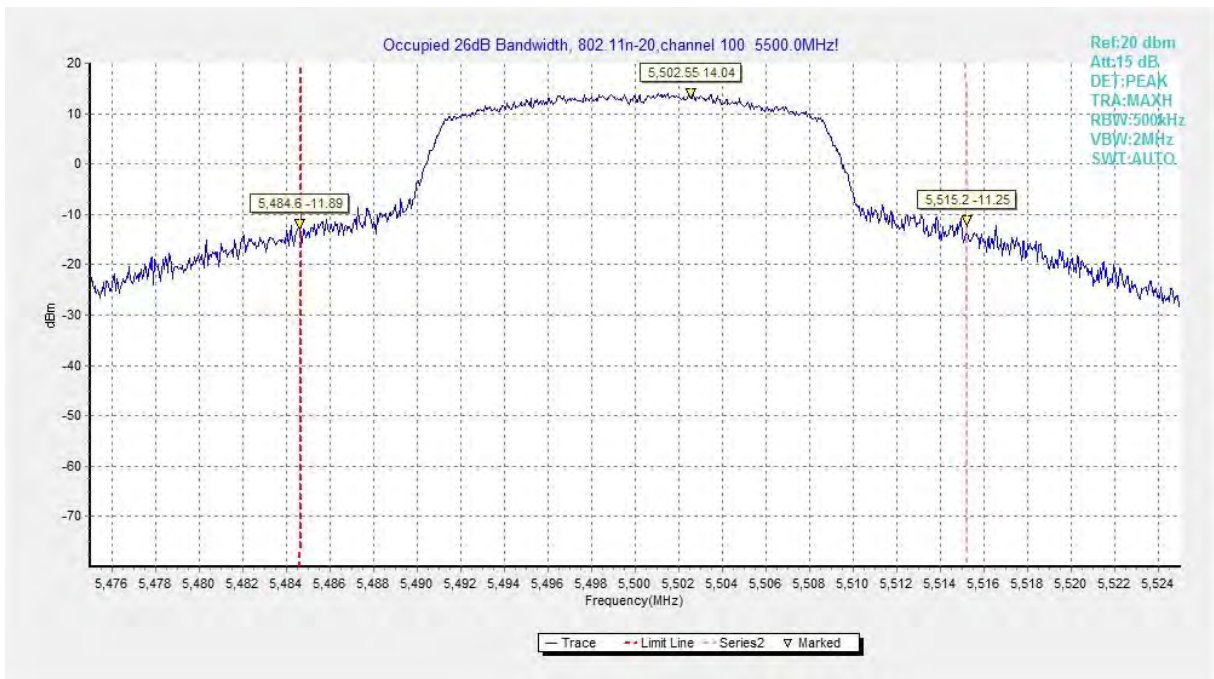


Fig.17 Occupied 26dB Bandwidth (802.11n-HT20, 5500MHz)

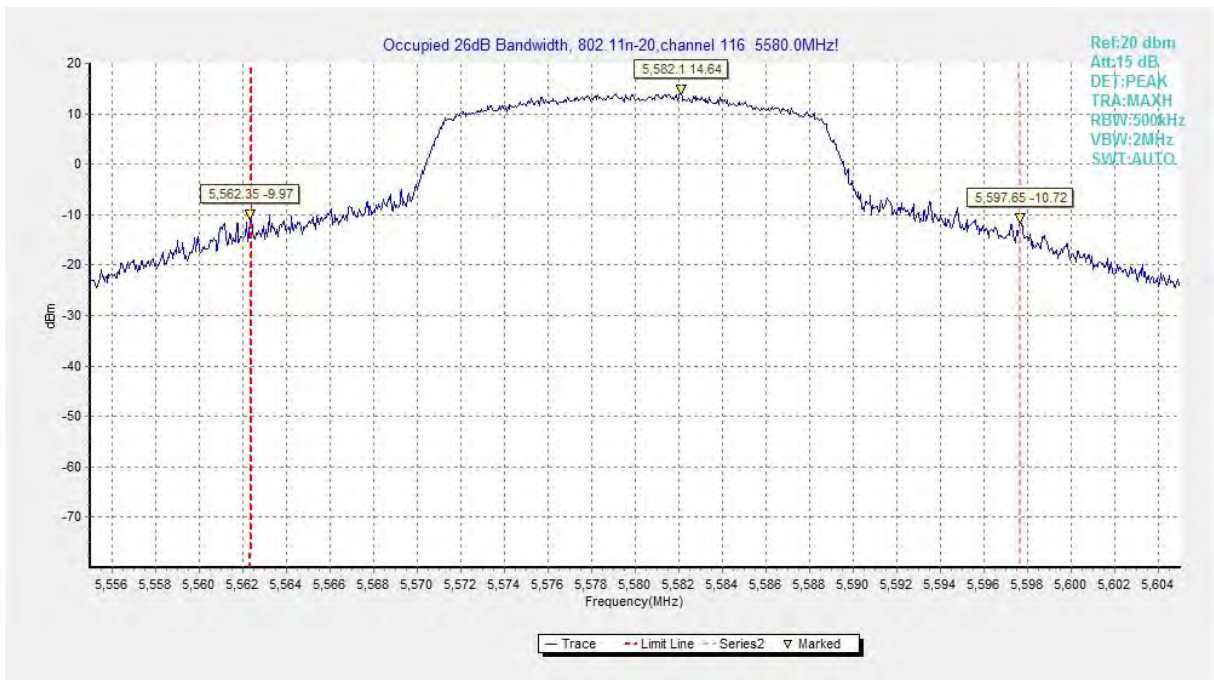


Fig.18 Occupied 26dB Bandwidth (802. 11n-HT20, 5580MHz)

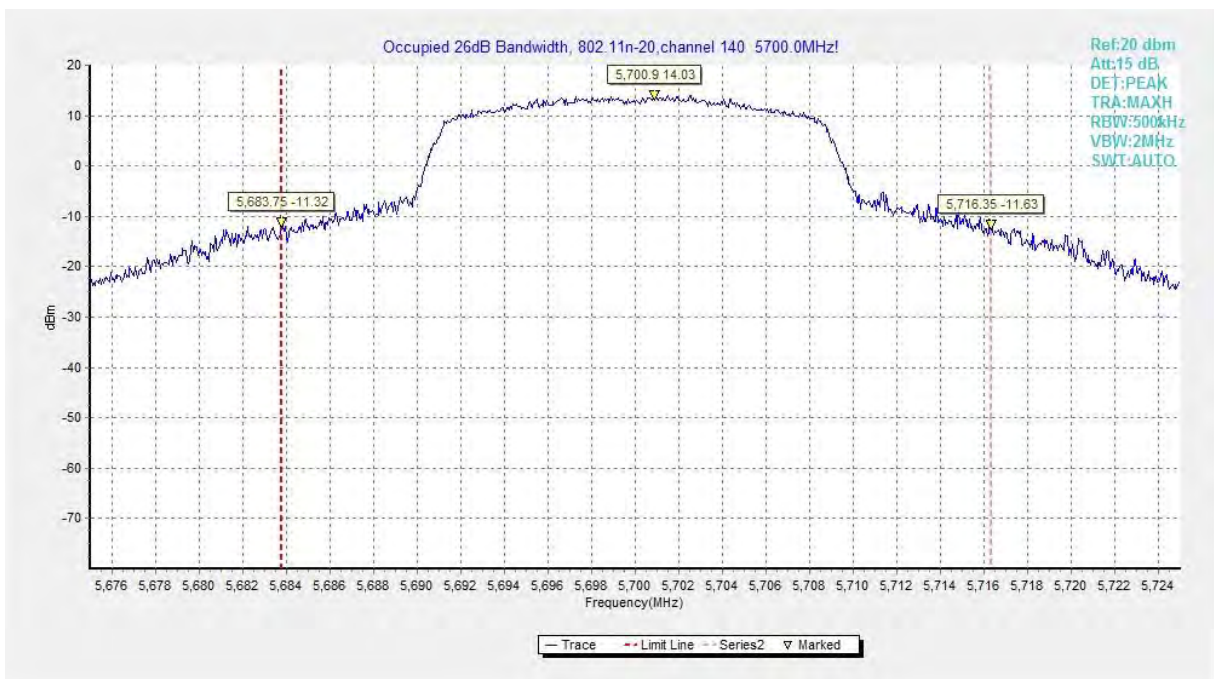


Fig.19 Occupied 26dB Bandwidth (802. 11n-HT20, 5700MHz)

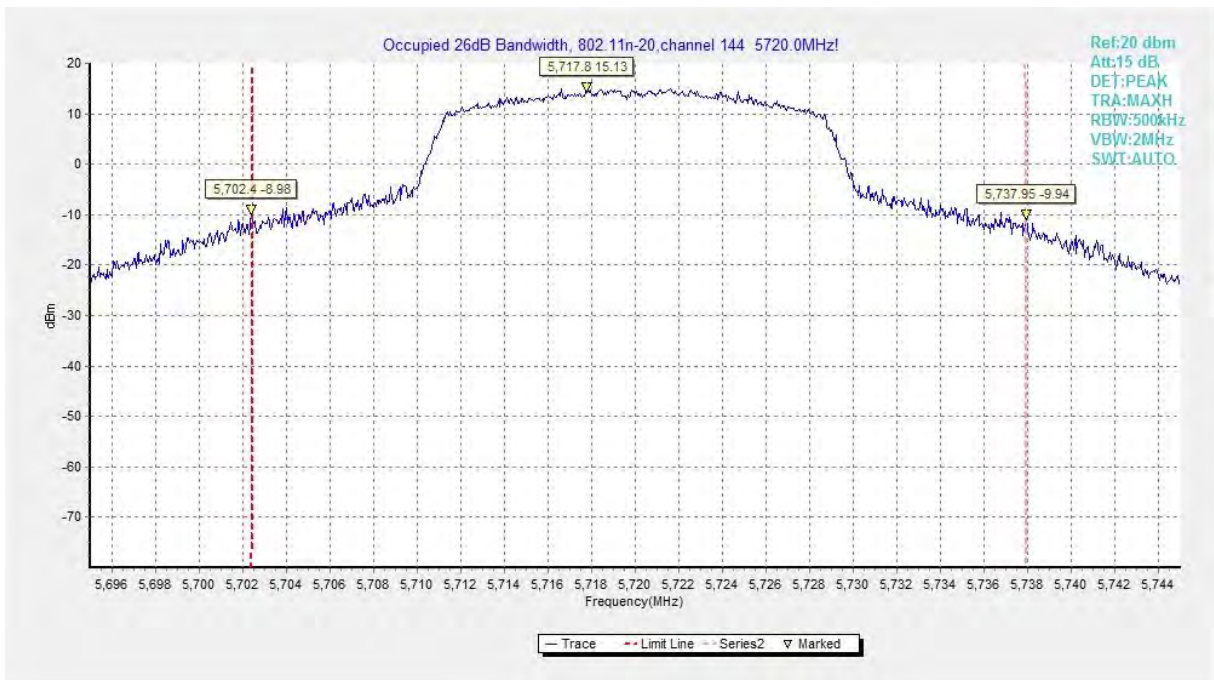


Fig.20 Occupied 26dB Bandwidth (802. 11n-HT20, 5720MHz)

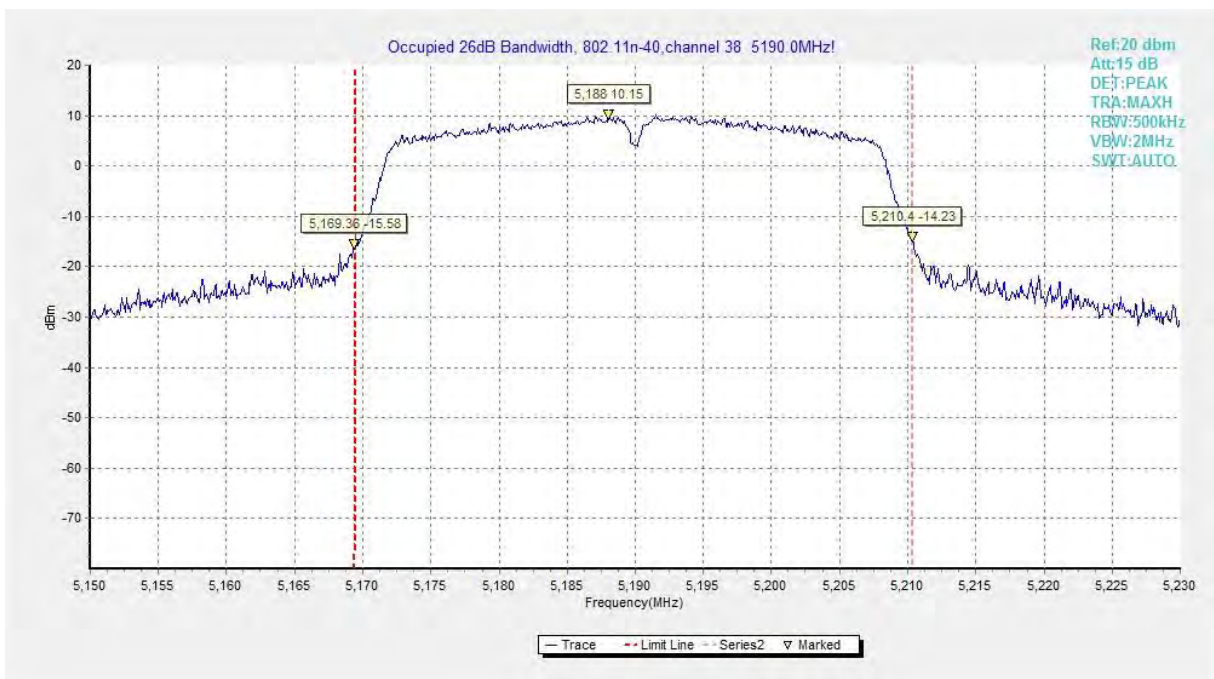


Fig.21 Occupied 26dB Bandwidth (802.11n-HT40, 5190MHz)

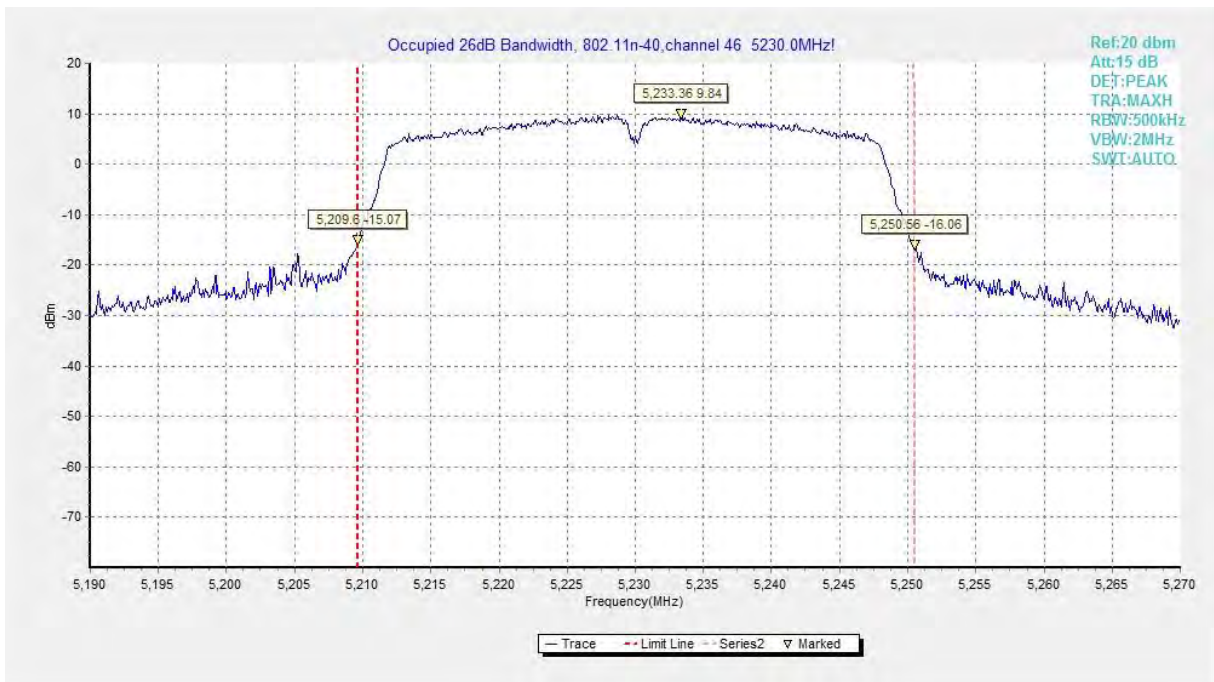


Fig.22 Occupied 26dB Bandwidth (802.11n-HT40, 5230MHz)

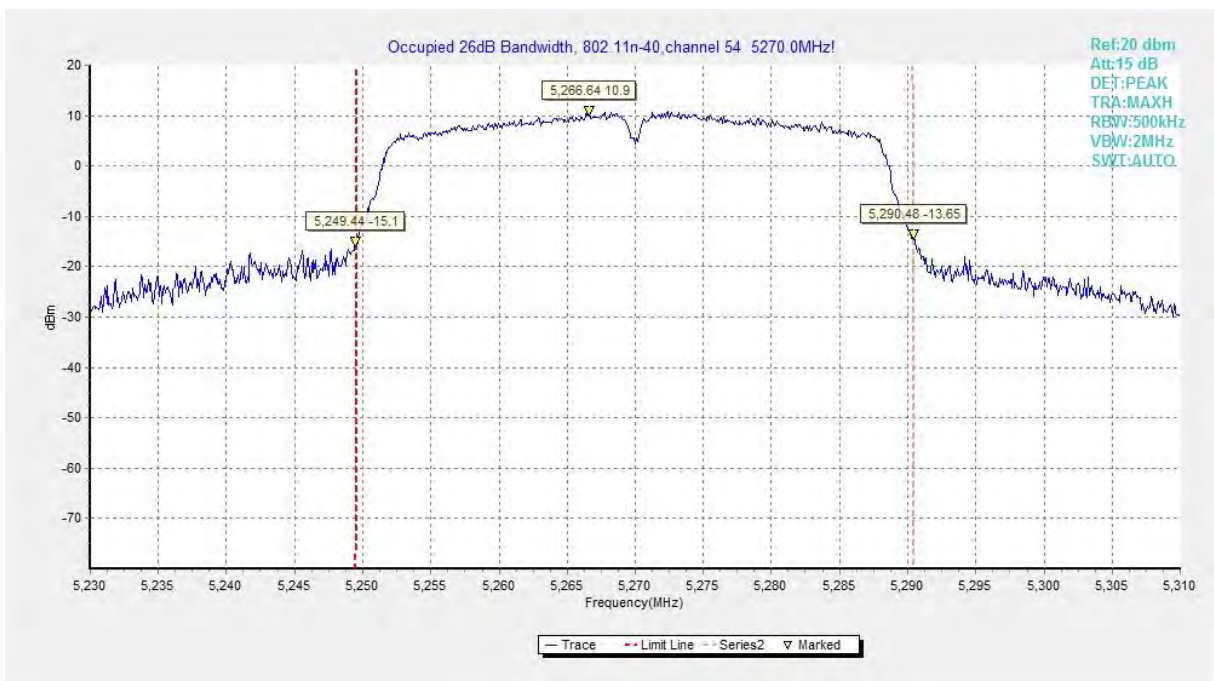


Fig.23 Occupied 26dB Bandwidth (802.11n-HT40, 5270MHz)

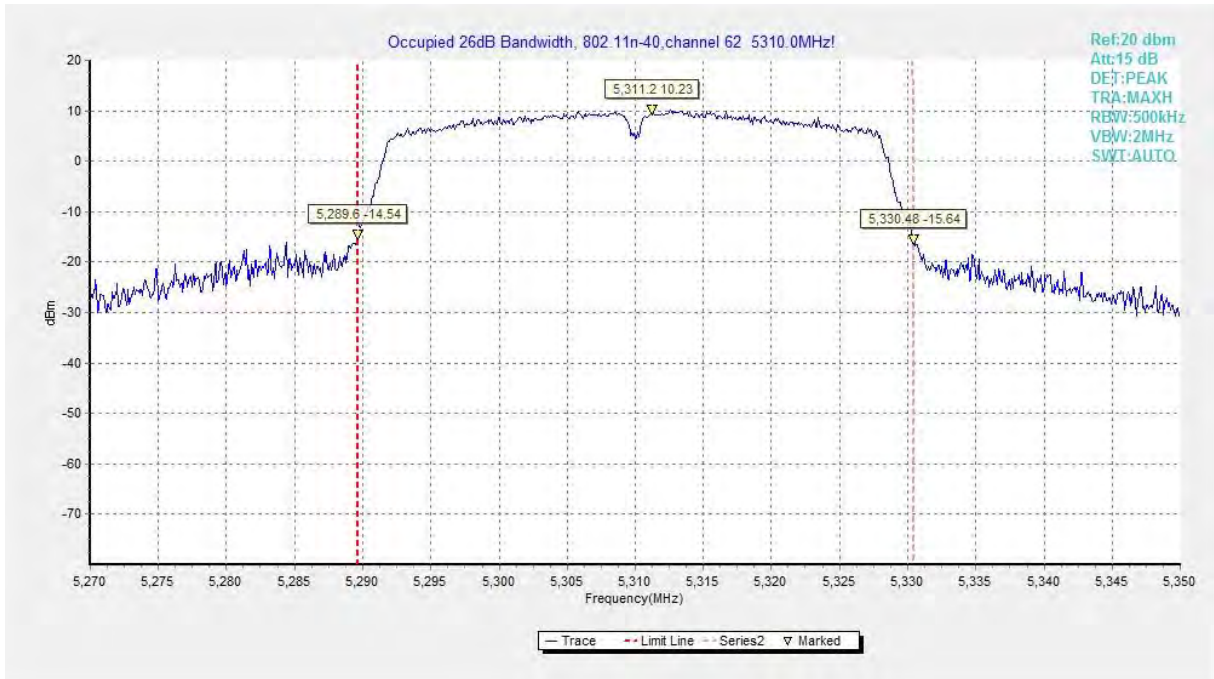


Fig.24 Occupied 26dB Bandwidth (802.11n-HT40, 5310MHz)

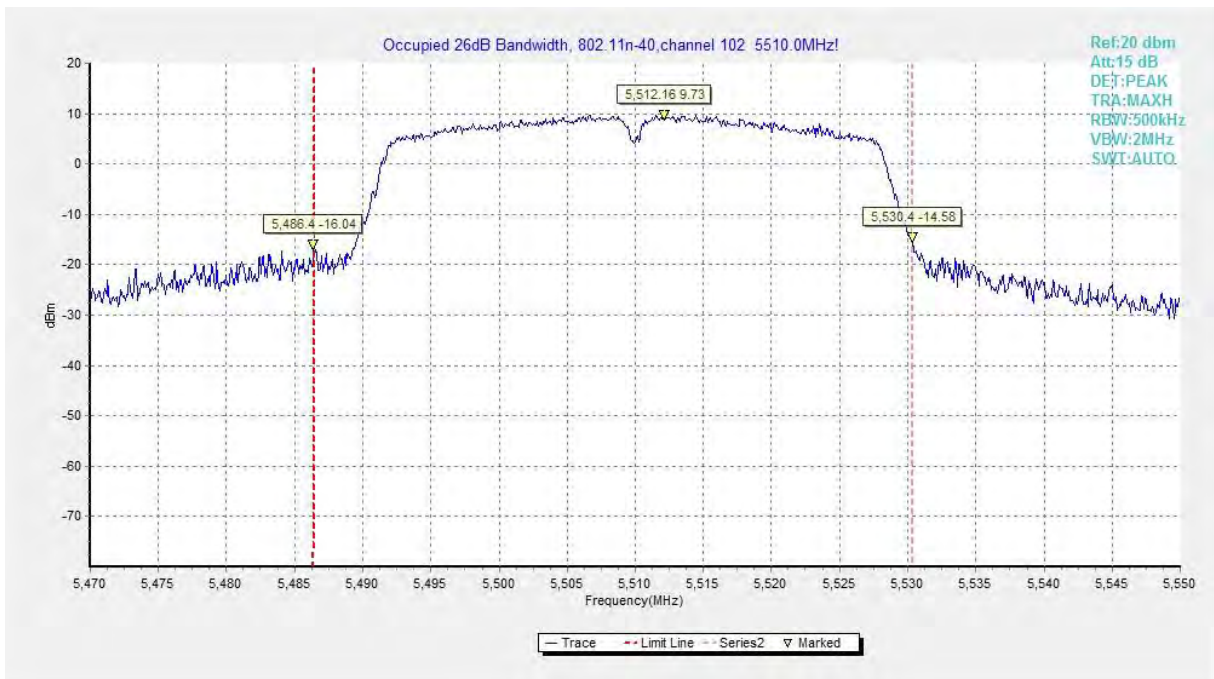


Fig.25 Occupied 26dB Bandwidth (802.11n-HT40, 5510MHz)

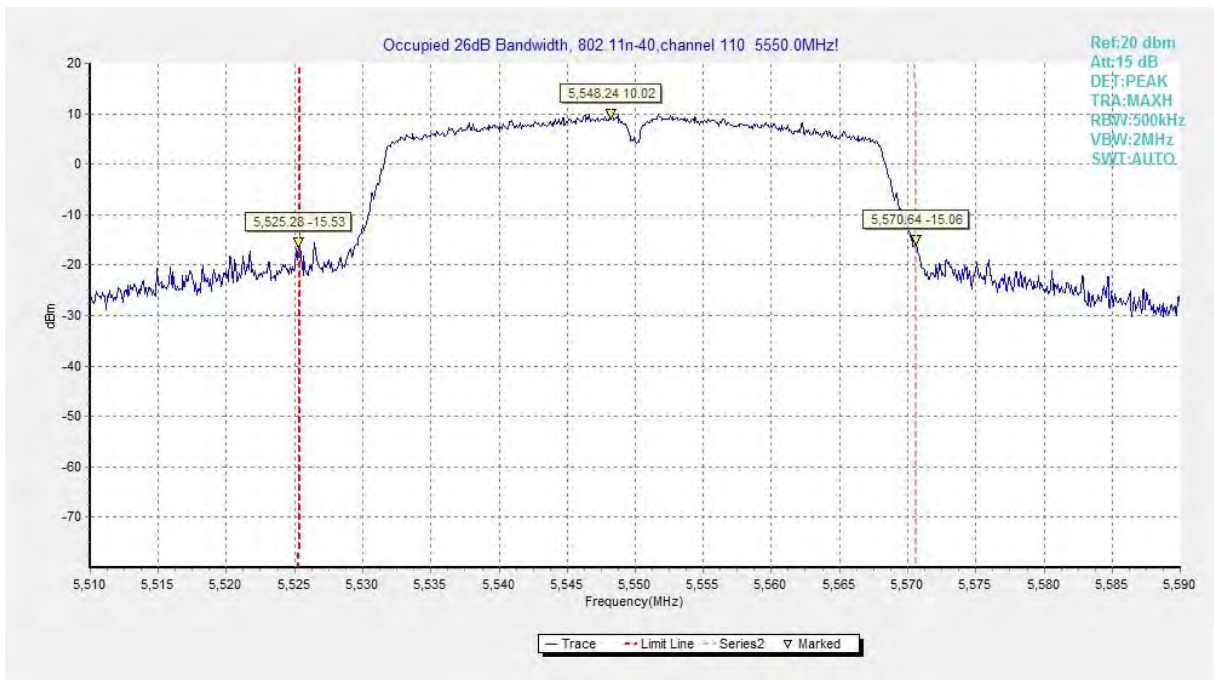


Fig.26 Occupied 26dB Bandwidth (802. 11n-HT40, 5590MHz)

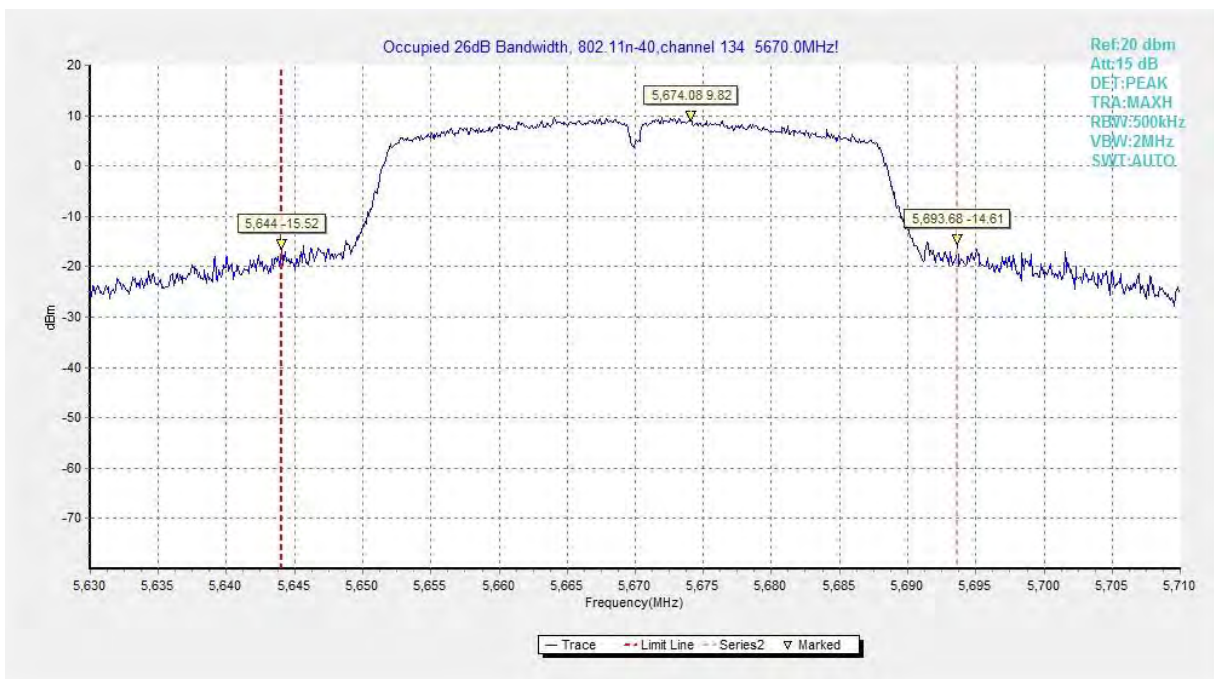


Fig.27 Occupied 26dB Bandwidth (802. 11n-HT40, 5670MHz)

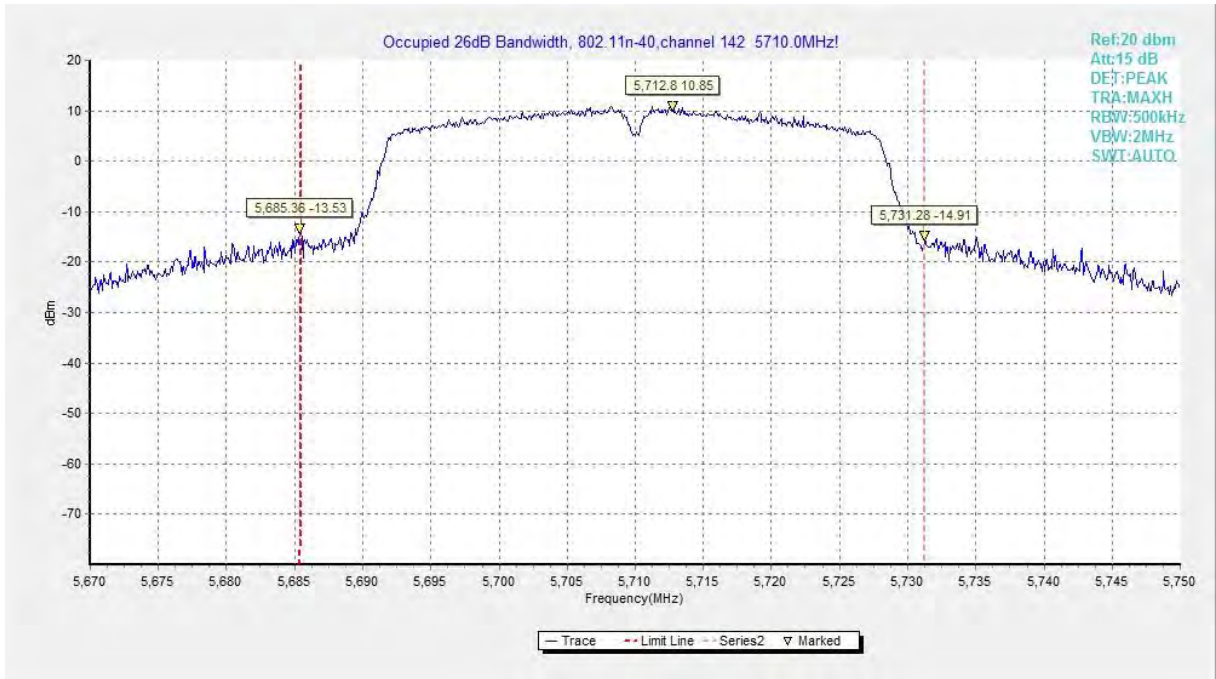


Fig.28 Occupied 26dB Bandwidth (802.11n-HT40, 5710MHz)

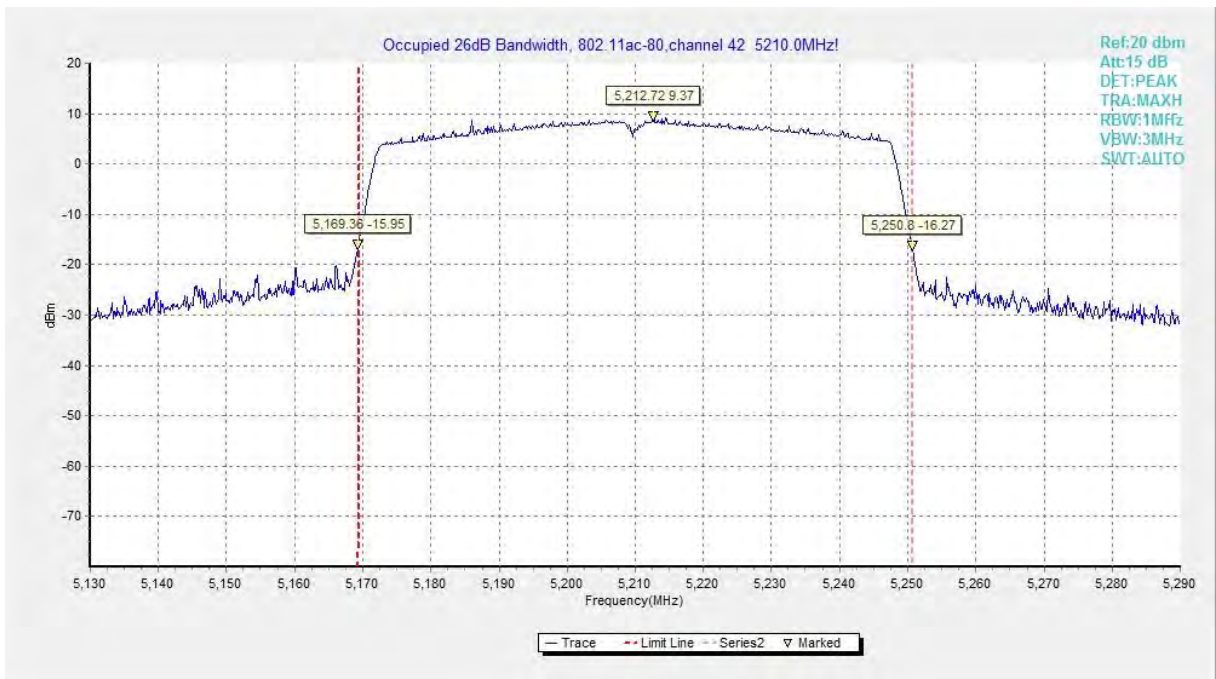


Fig.29 Occupied 26dB Bandwidth (802.11ac-HT80, 5210MHz)



Fig.30 Occupied 26dB Bandwidth (802. 11ac-HT80, 5290MHz)

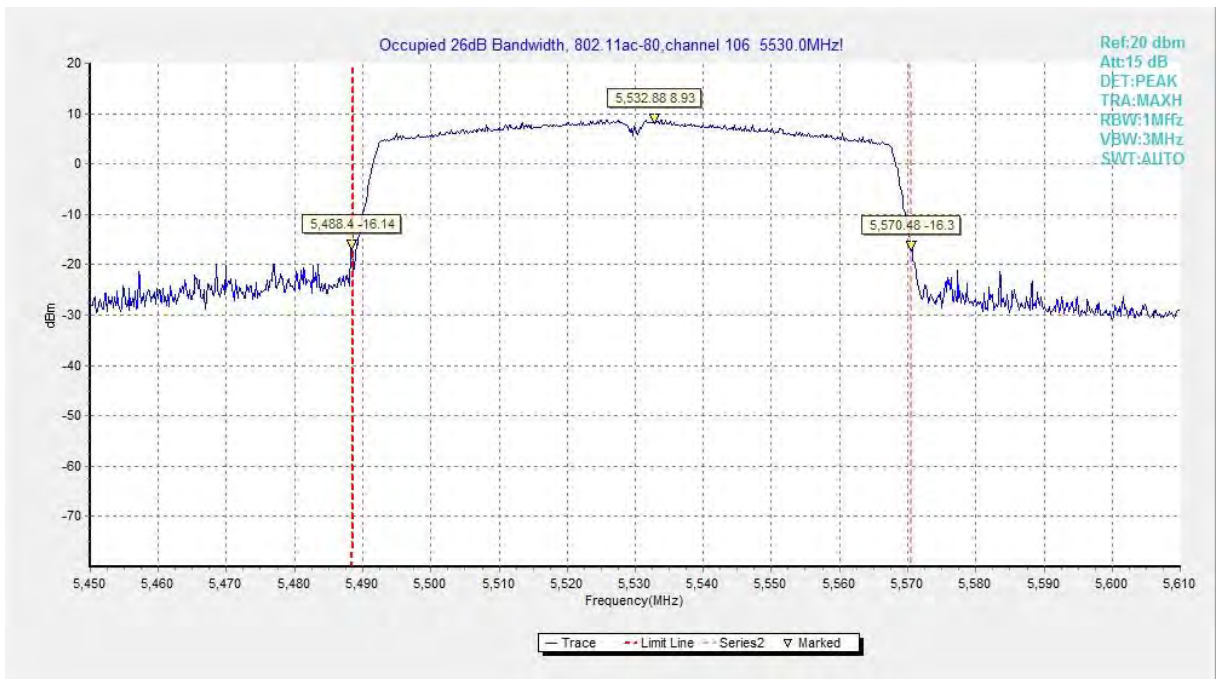


Fig.31 Occupied 26dB Bandwidth (802. 11ac-HT80, 5530MHz)

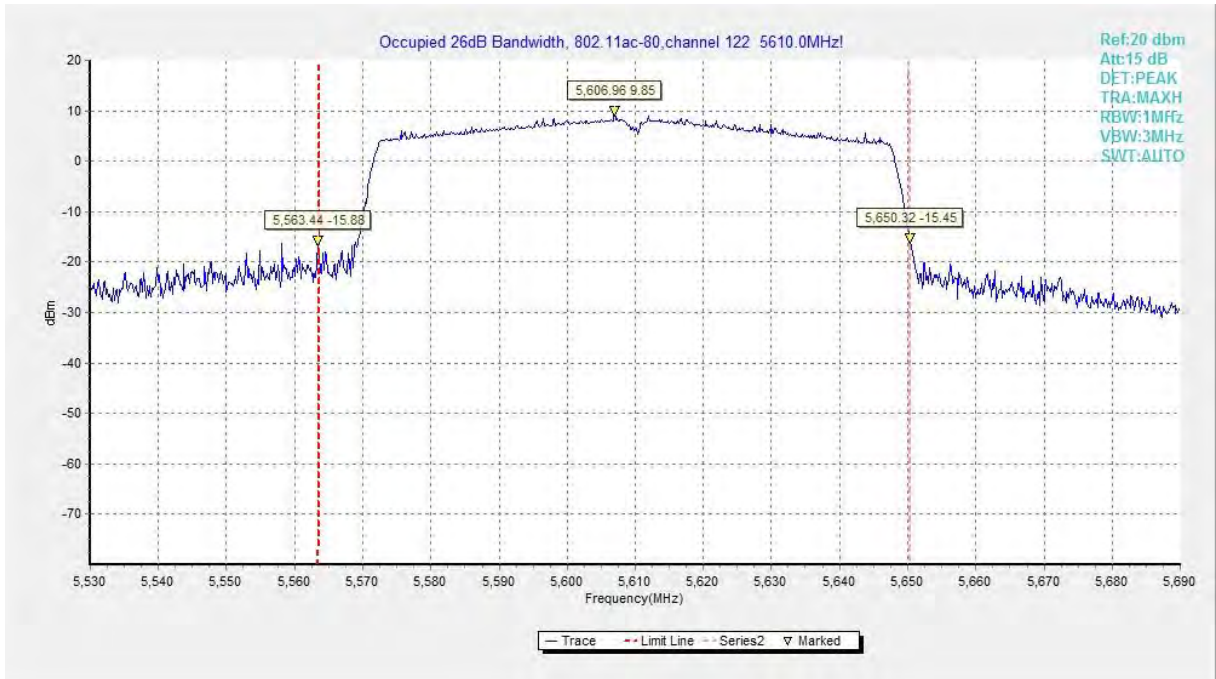


Fig.32 Occupied 26dB Bandwidth (802.11ac-HT80, 5610MHz)

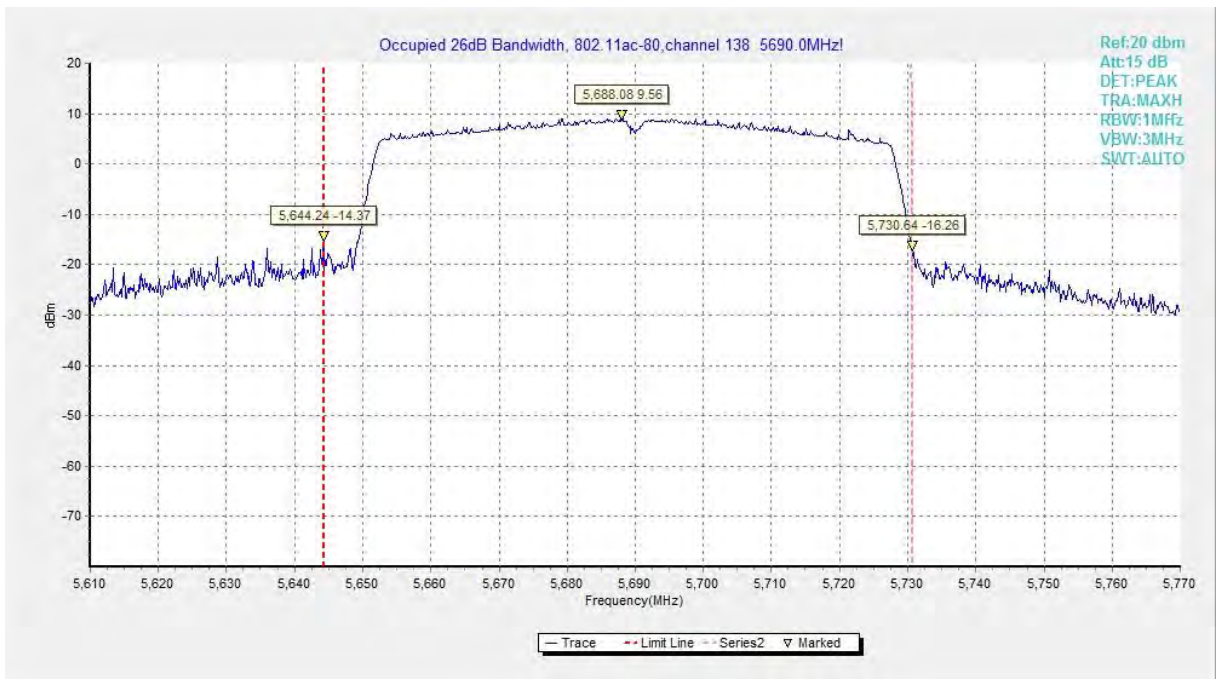


Fig.33 Occupied 26dB Bandwidth (802.11ac-HT80, 5690MHz)

A.5. Band Edges Compliance

A5.1 Band Edges - Radiated

Measurement Limit:

| Standard | Limit |
|------------------------|-------------|
| FCC 47 CFR Part 15.407 | -27 dBm/MHz |

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band:

| Frequency of emission (MHz) | Field strength(uV/m) | Field strength(dBuV/m) | Measurement distance(m) |
|-----------------------------|----------------------|------------------------|-------------------------|
| 30-88 | 100 | 40 | 3 |
| 88-216 | 150 | 43.5 | 3 |
| 216-960 | 200 | 46 | 3 |
| Above 960 | 500 | 54 | 3 |

The measurement is made according to ANSI C63.10-2013 and KDB 789033

Measurement Result:

| Mode | Channel | Test Results | Conclusion |
|------------------|----------|--------------|------------|
| 802.11a | 5180 MHz | Fig.34 | P |
| | 5320 MHz | Fig.35 | P |
| | 5500 MHz | Fig.36 | P |
| | 5700 MHz | Fig.37 | P |
| 802.11n HT20 | 5180 MHz | Fig.38 | P |
| | 5320 MHz | Fig.39 | P |
| | 5500 MHz | Fig.40 | P |
| | 5700 MHz | Fig.41 | P |
| 802.11n HT40 | 5190 MHz | Fig.42 | P |
| | 5310 MHz | Fig.43 | P |
| | 5510 MHz | Fig.44 | P |
| | 5670 MHz | Fig.45 | P |
| 802.11ac HT20 | 5180 MHz | Fig.46 | P |
| | 5320 MHz | Fig.47 | P |
| | 5500 MHz | Fig.48 | P |
| | 5700 MHz | Fig.49 | P |
| 802.11ac HT40 | 5190 MHz | Fig.50 | P |
| | 5310 MHz | Fig.51 | P |
| | 5510 MHz | Fig.52 | P |
| | 5670 MHz | Fig.53 | P |
| 802.11ac HT80 | 5210MHz | Fig.54 | P |
| | 5290MHz | Fig.55 | P |
| | 5530MHz | Fig.56 | P |

| | | | |
|--|---------|--------|---|
| | 5610MHz | Fig.57 | P |
|--|---------|--------|---|

Conclusion: PASS

Test graphs as below:

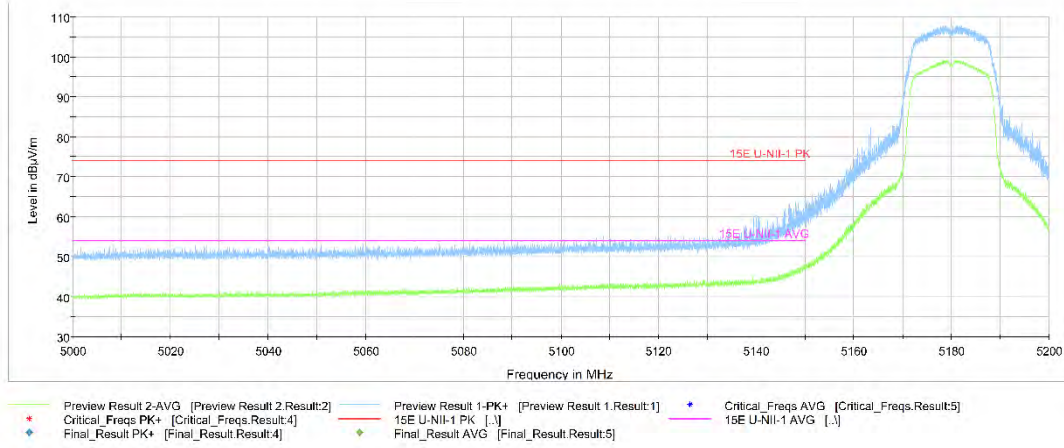


Fig.34 Band Edges (802.11a Ch36, 5180MHz)

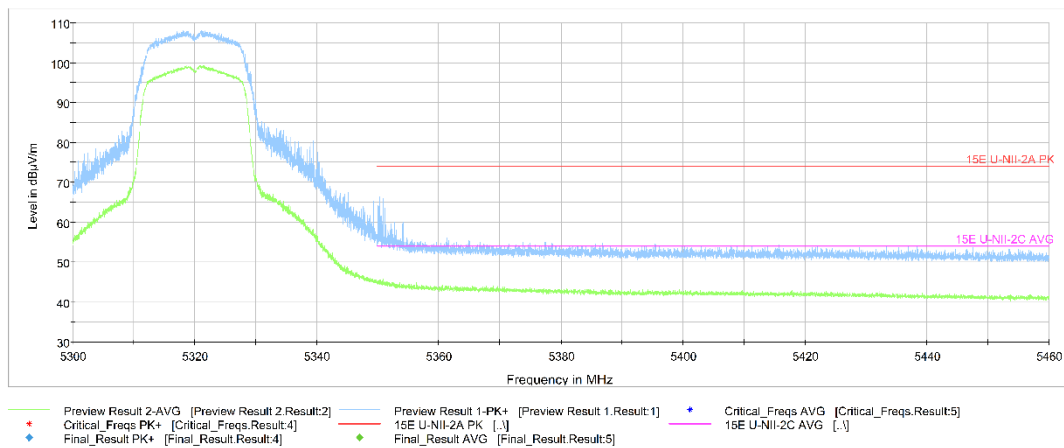


Fig.35 Band Edges (802.11a Ch64, 5320MHz)

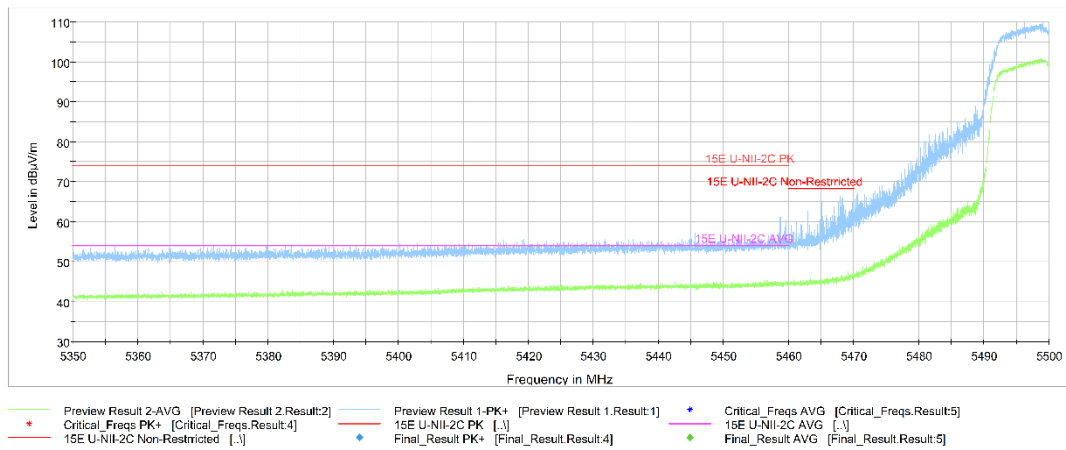


Fig.36 Band Edges (802.11a Ch100, 5500MHz)

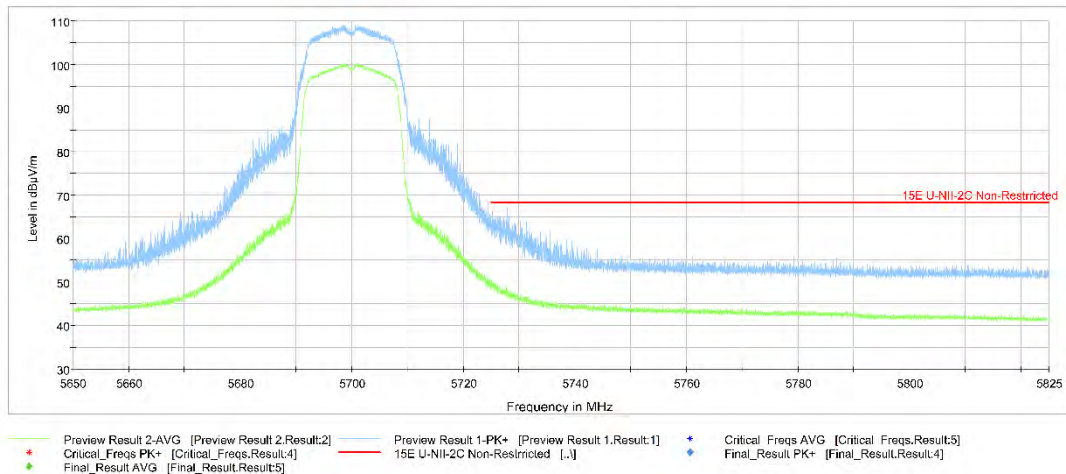


Fig.37 Band Edges (802.11a Ch140, 5700MHz)

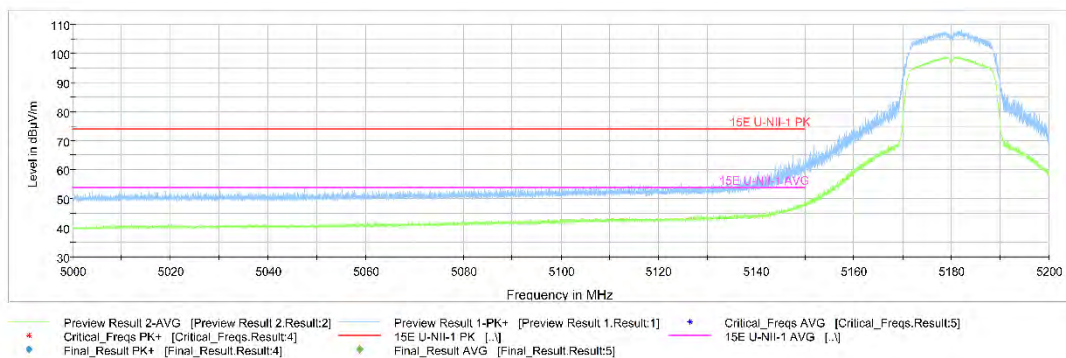


Fig.38 Band Edges (802.11n-HT20 Ch36, 5180MHz)

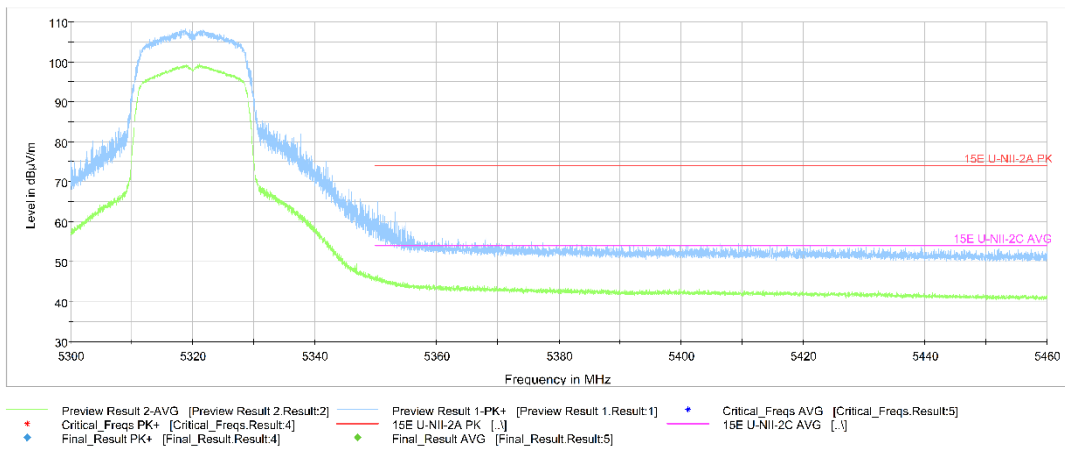


Fig.39 Band Edges (802.11n-HT20 Ch64, 5320MHz)

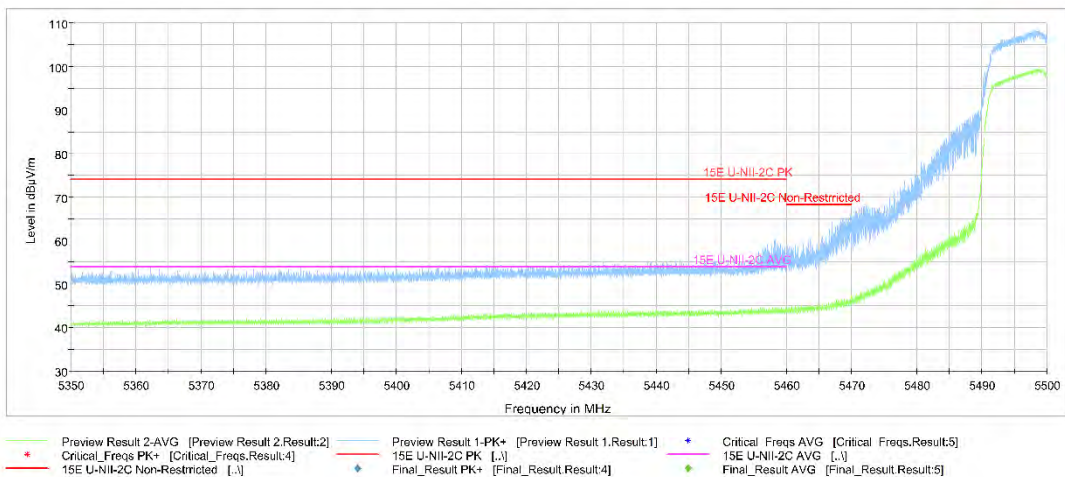


Fig.40 Band Edges (802.11n-HT20 Ch100, 5500MHz)

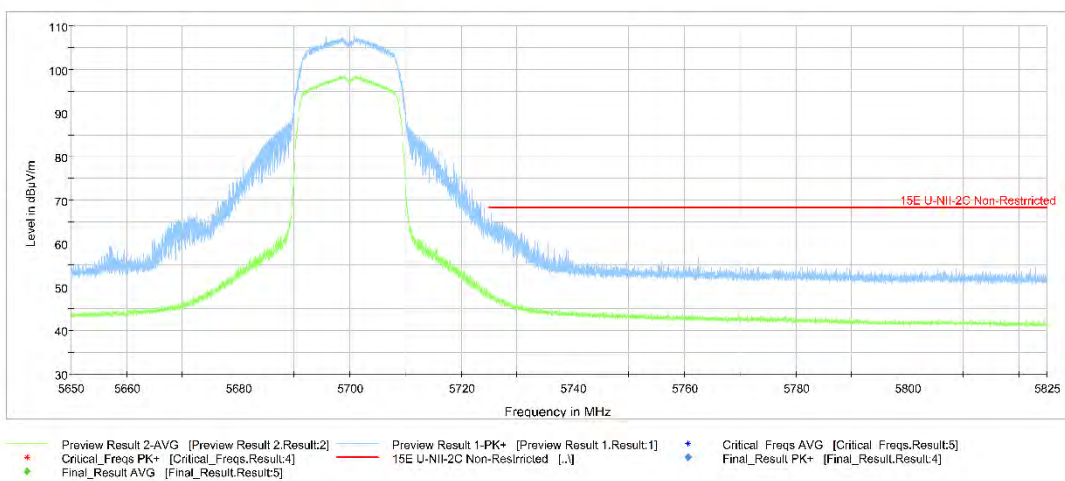


Fig.41 Band Edges (802.11n-HT20 Ch140, 5700MHz)

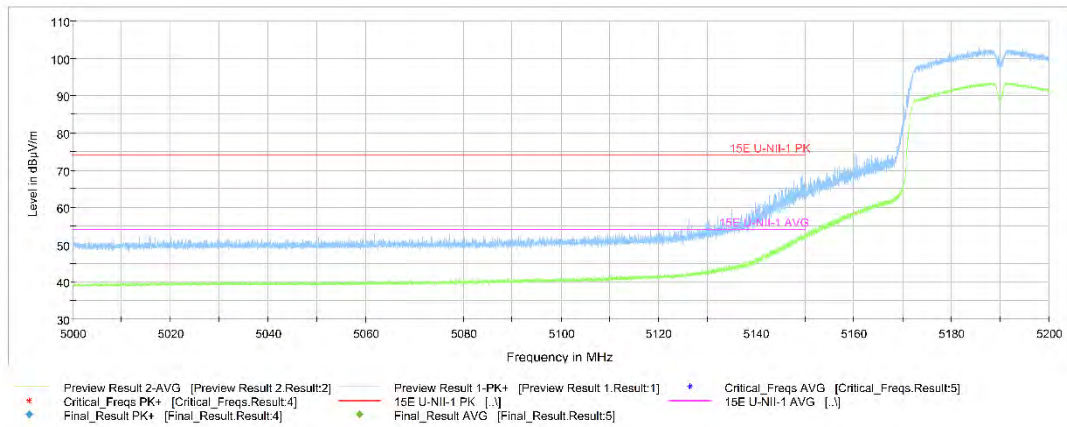


Fig.42 Band Edges (802.11n-HT40 Ch38, 5190MHz)

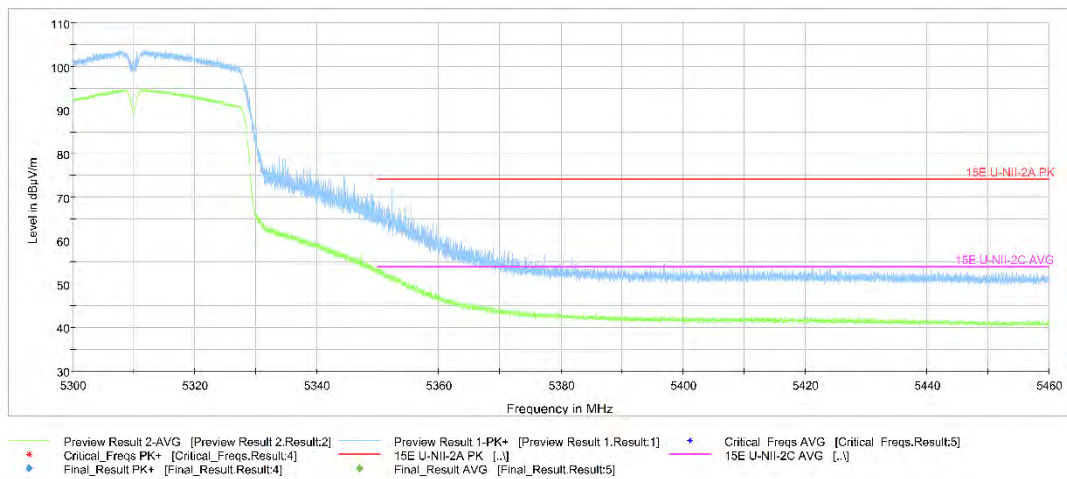


Fig.43 Band Edges (802.11n-HT40 Ch62, 5310MHz)

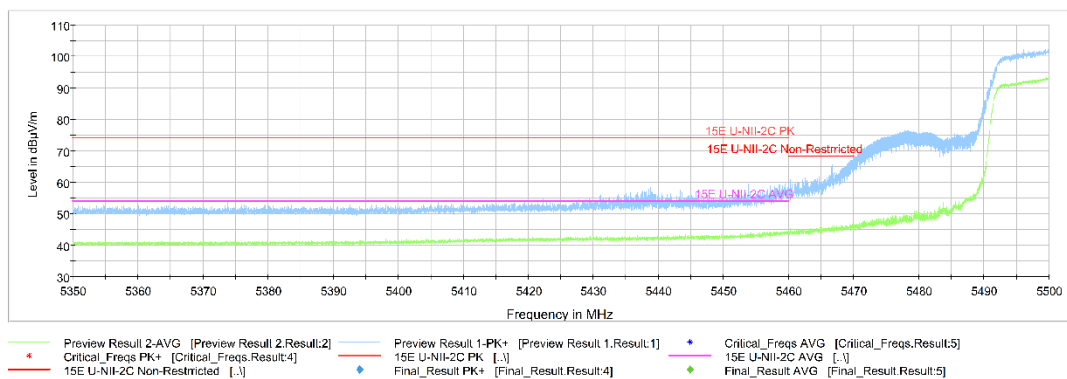


Fig.44 Band Edges (802.11n-HT40 Ch102, 5510MHz)

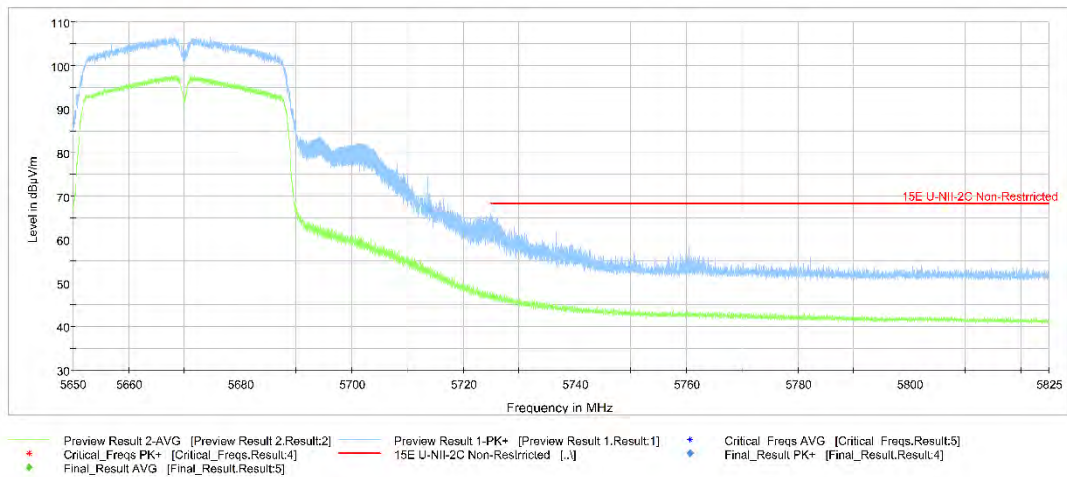


Fig.45 Band Edges (802.11n-HT40 Ch134, 5670MHz)

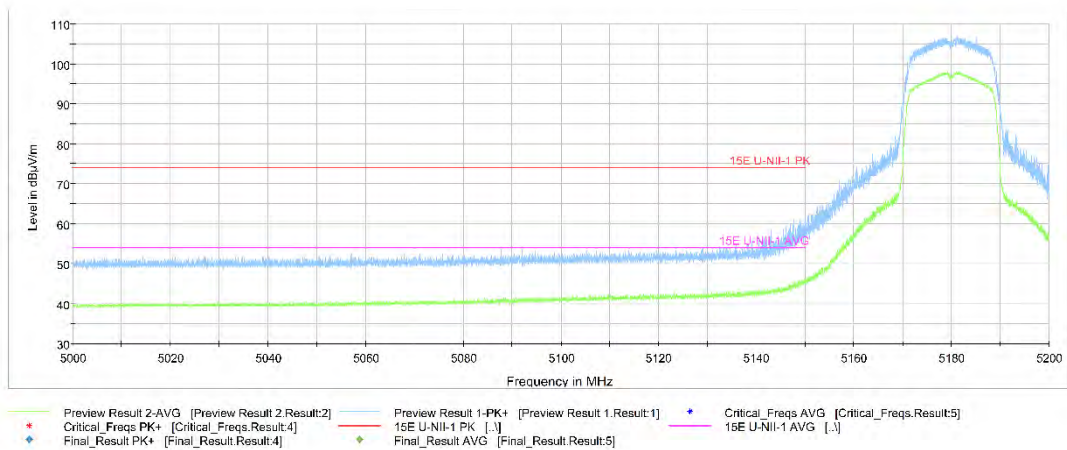


Fig.46 Band Edges (802.11ac-HT20 Ch36, 5180MHz)

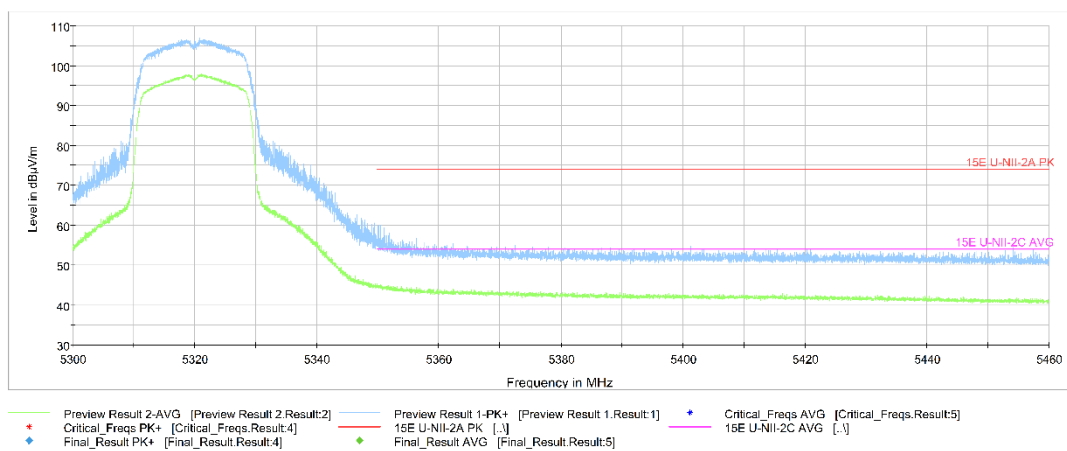


Fig.47 Band Edges (802.11ac-HT20 Ch64, 5320MHz)

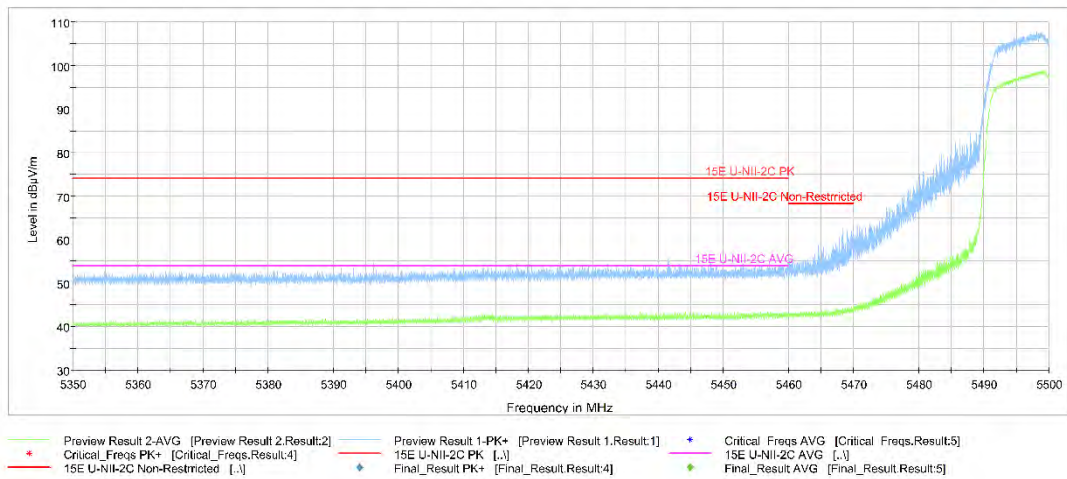


Fig.48 Band Edges (802.11ac-HT20 Ch100, 5500MHz)

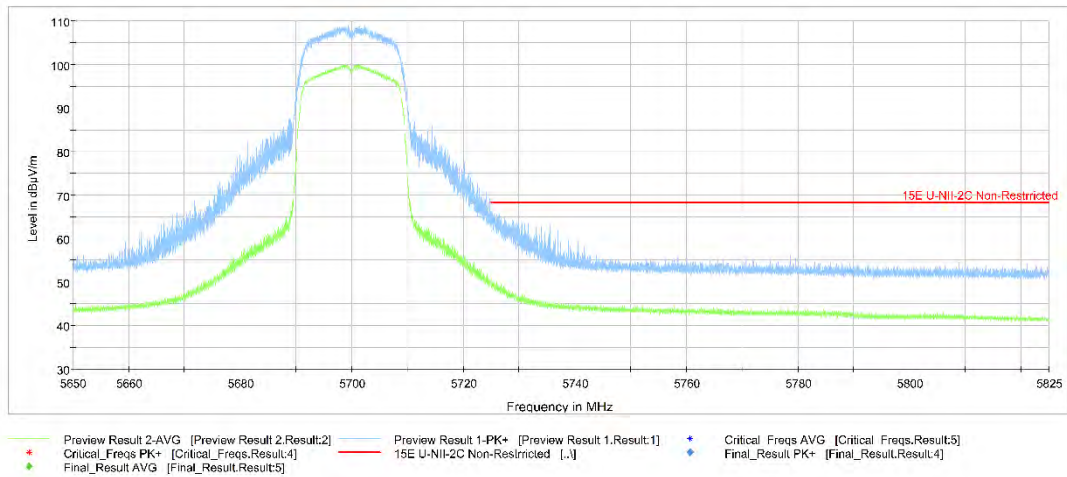


Fig.49 Band Edges (802.11ac-HT20 Ch140, 5700MHz)

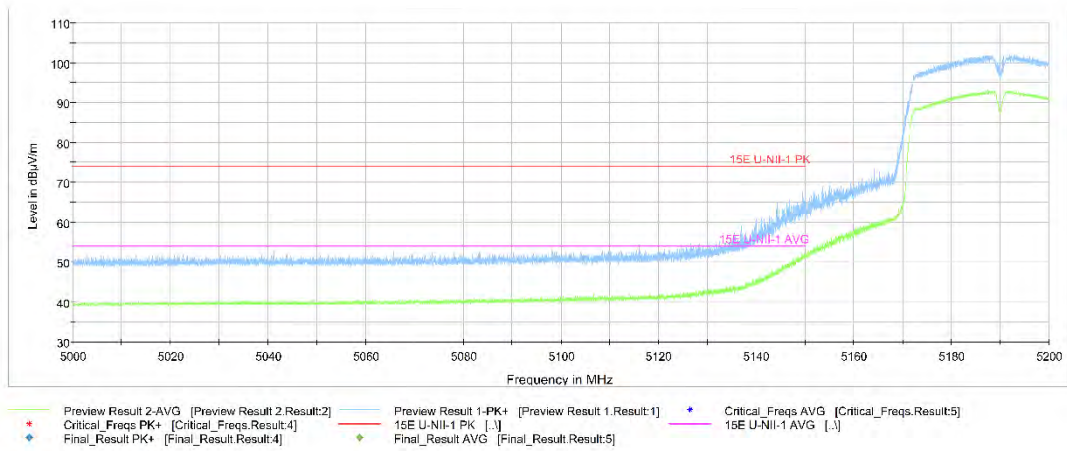


Fig.50 Band Edges (802.11ac-HT40 Ch38, 5190MHz)

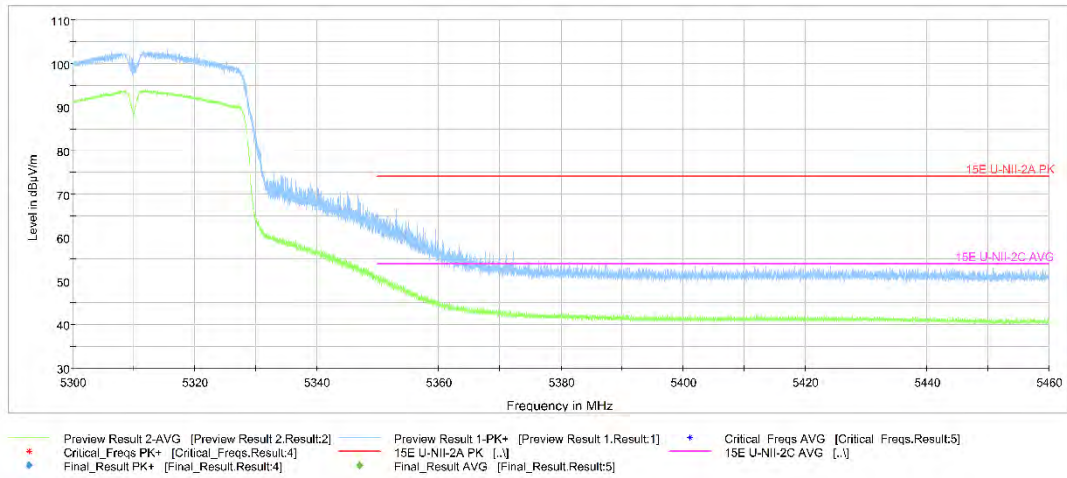


Fig.51 Band Edges (802.11ac-HT40 Ch62, 5310MHz)

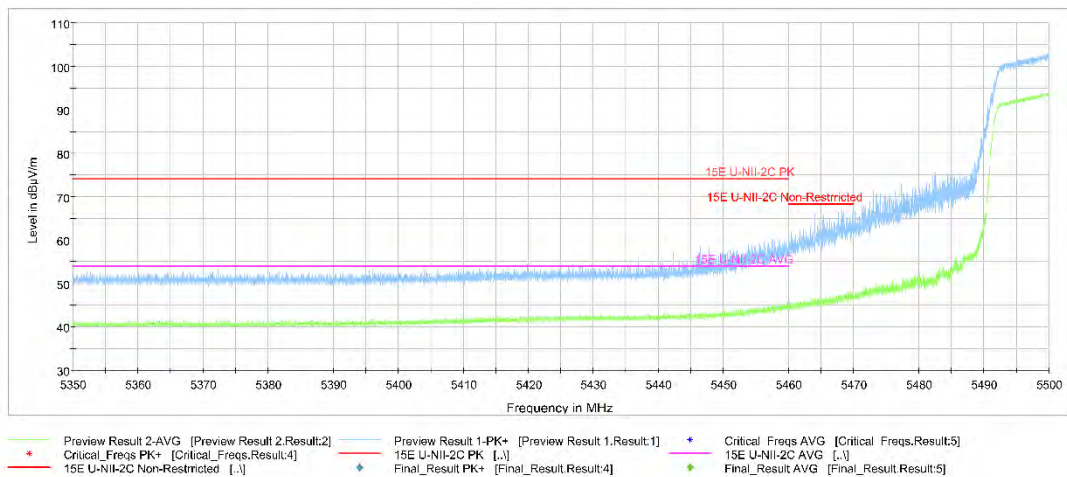


Fig.52 Band Edges (802.11ac-HT40 Ch102, 5510MHz)

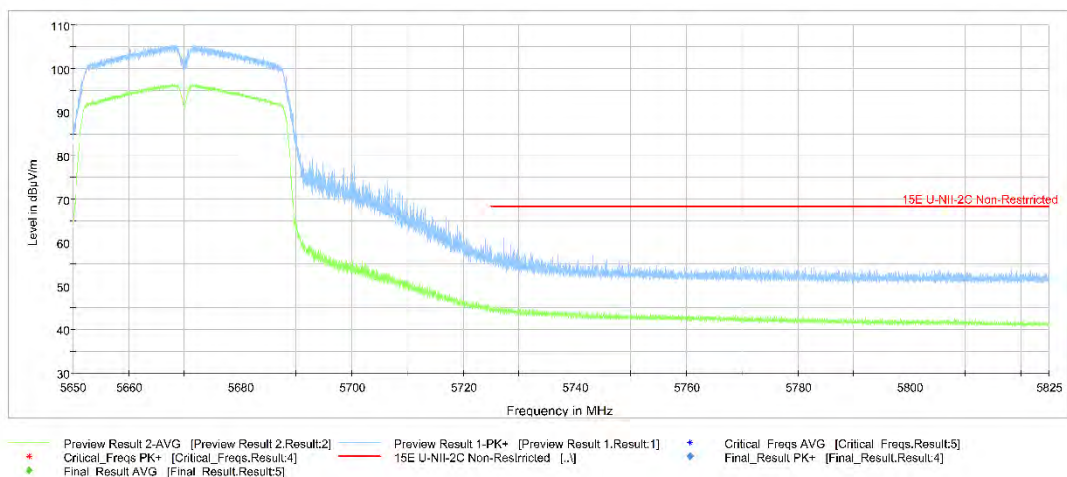


Fig.53 Band Edges (802.11ac-HT40 Ch134, 5670MHz)

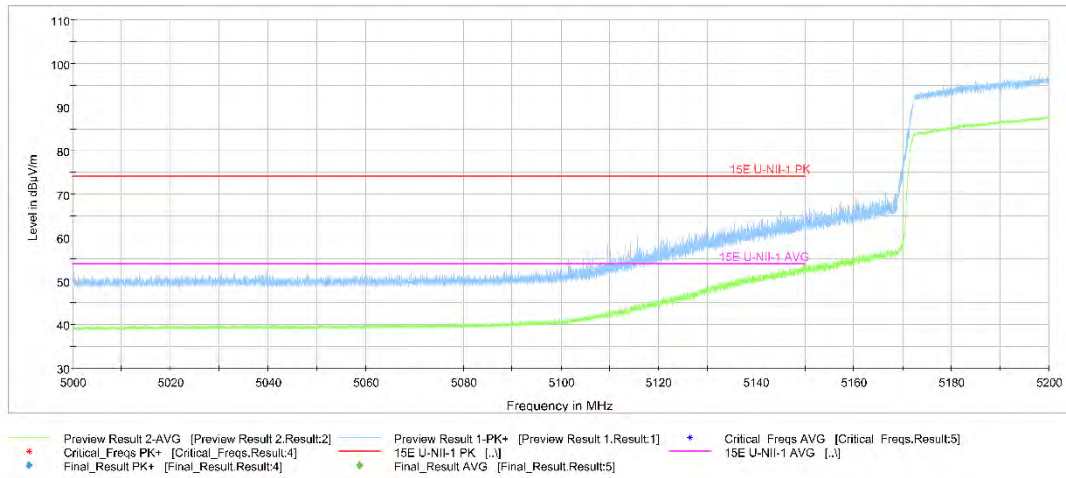


Fig.54 Band Edges (802.11ac-HT80 Ch42, 5210MHz)

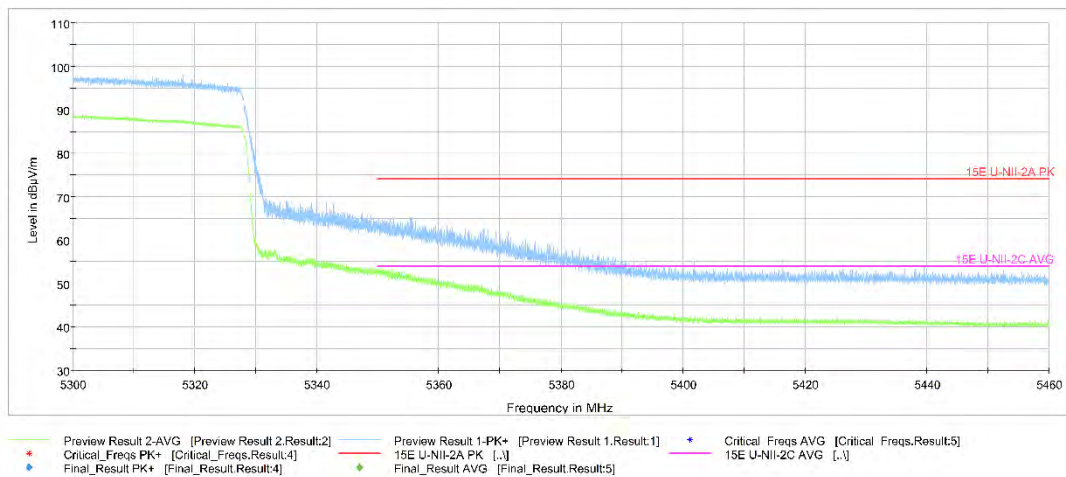


Fig.55 Band Edges (802.11ac-HT80 Ch58, 5290MHz)

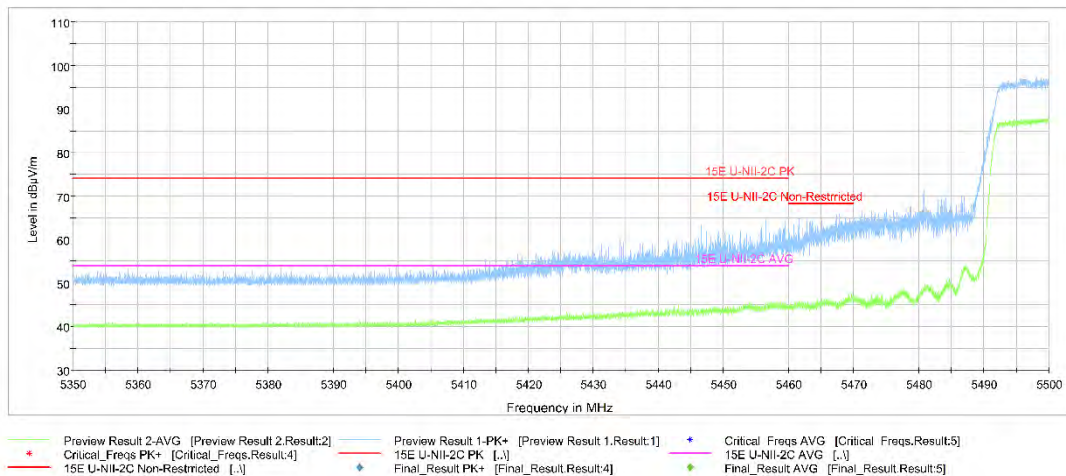


Fig.56 Band Edges (802.11ac-HT80 Ch106, 5530MHz)

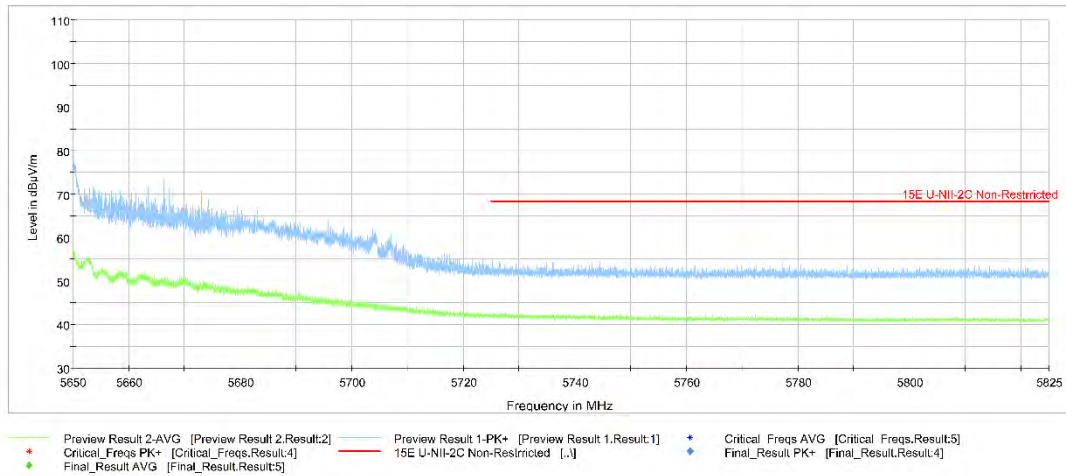


Fig.57 Band Edges (802.11ac-HT80 Ch122, 5610MHz)

A.6. Transmitter Spurious Emission

Measurement Limit:

| Standard | Limit |
|------------------------|-------------|
| FCC 47 CFR Part 15.407 | -27 dBm/MHz |

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band:

| Frequency of emission (MHz) | Field strength(uV/m) | Field strength(dBuV/m) | Measurement distance(m) |
|-----------------------------|----------------------|------------------------|-------------------------|
| 30-88 | 100 | 40 | 3 |
| 88-216 | 150 | 43.5 | 3 |
| 216-960 | 200 | 46 | 3 |
| Above 960 | 500 | 54 | 3 |

The measurement is made according to ANSI C63.10-2013 and KDB 789033

Measurement Results:

802.11a mode

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|---------|----------------|-------------------|---------------|------------|
| 802.11a | 36(5180MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | 40(5200MHz) | 30 MHz ~1 GHz | --- | P |
| | | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | | 18 GHz ~ 26.5 GHz | --- | P |
| | | 26.5 GHz ~ 40 GHz | --- | P |
| | | 48(5240MHz) | 1 GHz ~ 3 GHz | --- |
| | 3 GHz ~ 7 GHz | | --- | P |
| | 7 GHz ~ 18 GHz | | --- | P |
| | 52(5260MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | 56(5280MHz) | 30 MHz ~1 GHz | --- | P |
| | | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | | 18 GHz ~ 26.5 GHz | --- | P |
| | | 26.5 GHz ~ 40 GHz | --- | P |
| | 64(5320MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | 100(5500MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | 120(5600MHz) | 30 MHz ~1 GHz | --- | P |
| | | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | | 18 GHz ~ 26.5 GHz | --- | P |
| | | 26.5 GHz ~ 40 GHz | --- | P |
| | 140(5700MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |

802.11n-HT20 mode

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|------------------|--------------|-------------------|--------------|------------|
| 802.11n -HT20 | 36(5180MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | 40(5200MHz) | 30 MHz ~1 GHz | --- | P |
| | | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | | 18 GHz ~ 26.5 GHz | --- | P |
| | | 26.5 GHz ~ 40 GHz | --- | P |
| | | 26.5 GHz ~ 40 GHz | --- | P |
| | 48(5240MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | 52(5260MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | 56(5280MHz) | 30 MHz ~1 GHz | --- | P |
| | | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | | 18 GHz ~ 26.5 GHz | --- | P |
| | | 26.5 GHz ~ 40 GHz | --- | P |
| | 64(5320MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | 100(5500MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | 120(5600MHz) | 30 MHz ~1 GHz | --- | P |
| | | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | | 18 GHz ~ 26.5 GHz | --- | P |
| | | 26.5 GHz ~ 40 GHz | --- | P |
| | 140(5700MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| 7 GHz ~ 18 GHz | | --- | P | |

802.11n-HT40 mode

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|-----------------|-------------------|-------------------|--------------|------------|
| 802.11n HT40 | 38(5190MHz) | 30 MHz ~1 GHz | --- | P |
| | | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | | 18 GHz ~ 26.5 GHz | --- | P |
| | | 26.5 GHz ~ 40 GHz | --- | P |
| | 46(5230MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | 54(5270MHz) | 30 MHz ~1 GHz | --- | P |
| | | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | | 18 GHz ~ 26.5 GHz | --- | P |
| | | 26.5 GHz ~ 40 GHz | --- | P |
| | 62(5310MHz) | 30 MHz ~1 GHz | --- | P |
| | | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | | 18 GHz ~ 26.5 GHz | --- | P |
| | | 26.5 GHz ~ 40 GHz | --- | P |
| | 102(5510MHz) | 30 MHz ~1 GHz | --- | P |
| | | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | | 18 GHz ~ 26.5 GHz | --- | P |
| | | 26.5 GHz ~ 40 GHz | --- | P |
| | 118(5590MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| 134(5670MHz) | 30 MHz ~1 GHz | --- | P | |
| | 1 GHz ~ 3 GHz | --- | P | |
| | 3 GHz ~ 7 GHz | --- | P | |
| | 7 GHz ~ 18 GHz | --- | P | |
| | 18 GHz ~ 26.5 GHz | --- | P | |
| | 26.5 GHz ~ 40 GHz | --- | P | |

802.11ac-HT20 mode

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|-------------------|--------------|-------------------|--------------|------------|
| 802.11ac -HT20 | 36(5180MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | 40(5200MHz) | 30 MHz ~1 GHz | --- | P |
| | | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | | 18 GHz ~ 26.5 GHz | --- | P |
| | | 26.5 GHz ~ 40 GHz | --- | P |
| | | 26.5 GHz ~ 40 GHz | --- | P |
| | 48(5240MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | 52(5260MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | 56(5280MHz) | 30 MHz ~1 GHz | --- | P |
| | | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | | 18 GHz ~ 26.5 GHz | --- | P |
| | | 26.5 GHz ~ 40 GHz | --- | P |
| | 64(5320MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | 100(5500MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | 120(5600MHz) | 30 MHz ~1 GHz | --- | P |
| | | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | | 18 GHz ~ 26.5 GHz | --- | P |
| | | 26.5 GHz ~ 40 GHz | --- | P |
| | 140(5700MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| 7 GHz ~ 18 GHz | | --- | P | |

802.11ac-HT40 mode

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|------------------|-------------------|-------------------|--------------|------------|
| 802.11ac HT40 | 38(5190MHz) | 30 MHz ~1 GHz | --- | P |
| | | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | | 18 GHz ~ 26.5 GHz | --- | P |
| | | 26.5 GHz ~ 40 GHz | --- | P |
| | 46(5230MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | 54(5270MHz) | 30 MHz ~1 GHz | --- | P |
| | | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | | 18 GHz ~ 26.5 GHz | --- | P |
| | | 26.5 GHz ~ 40 GHz | --- | P |
| | 62(5310MHz) | 30 MHz ~1 GHz | --- | P |
| | | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | | 18 GHz ~ 26.5 GHz | --- | P |
| | | 26.5 GHz ~ 40 GHz | --- | P |
| | 102(5510MHz) | 30 MHz ~1 GHz | --- | P |
| | | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | | 18 GHz ~ 26.5 GHz | --- | P |
| | | 26.5 GHz ~ 40 GHz | --- | P |
| | 118(5590MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| 134(5670MHz) | 30 MHz ~1 GHz | --- | P | |
| | 1 GHz ~ 3 GHz | --- | P | |
| | 3 GHz ~ 7 GHz | --- | P | |
| | 7 GHz ~ 18 GHz | --- | P | |
| | 18 GHz ~ 26.5 GHz | --- | P | |
| | 26.5 GHz ~ 40 GHz | --- | P | |

802.11ac-HT80 mode

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|-------------------|--------------|-------------------|----------------|------------|
| 802.11ac -HT80 | 42(5210MHz) | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | 58(5290MHz) | 30 MHz ~1 GHz | --- | P |
| | | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | 7 GHz ~ 18 GHz | --- | P |
| | | 18 GHz ~ 26.5 GHz | --- | P |
| | 106(5530MHz) | 26.5 GHz ~ 40 GHz | --- | P |
| | | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | 122(5610MHz) | 7 GHz ~ 18 GHz | --- | P |
| | | 1 GHz ~ 3 GHz | --- | P |
| | | 3 GHz ~ 7 GHz | --- | P |
| | | | 7 GHz ~ 18 GHz | --- |

Conclusion: PASS

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

$$\text{Result} = P_{Mea} + A_{Rpl} = P_{Mea} + \text{Cable Loss} + \text{Antenna Factor}$$

AVERAGE Results:
802.11a

Channel 36

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17983.000 | 42.33 | -25.50 | 46.66 | 21.17 | 54.00 | 11.67 | V |
| 17995.600 | 42.33 | -25.50 | 46.66 | 21.17 | 54.00 | 11.67 | H |
| 8287.500 | 40.83 | -34.97 | 37.56 | 38.23 | 54.00 | 13.17 | V |
| 8288.100 | 39.74 | -34.97 | 37.56 | 37.14 | 54.00 | 14.26 | V |
| 5149.500 | 47.94 | -27.61 | 33.67 | 41.88 | 54.00 | 6.06 | H |
| 5149.900 | 47.87 | -27.61 | 33.67 | 41.81 | 54.00 | 6.13 | H |

Channel 40

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17998.300 | 42.91 | -25.50 | 46.66 | 21.75 | 54.00 | 11.09 | V |
| 17994.500 | 42.60 | -25.50 | 46.66 | 21.44 | 54.00 | 11.40 | H |
| 8320.000 | 41.57 | -34.97 | 37.56 | 38.97 | 54.00 | 12.43 | V |
| 8319.500 | 40.60 | -34.97 | 37.56 | 38.00 | 54.00 | 13.40 | V |
| 14499.200 | 38.78 | -28.59 | 42.46 | 24.91 | 54.00 | 15.22 | H |
| 13321.700 | 38.66 | -29.49 | 39.71 | 28.44 | 54.00 | 15.34 | H |

Channel 48

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17953.200 | 42.15 | -25.50 | 46.66 | 20.99 | 54.00 | 11.85 | V |
| 17996.200 | 42.07 | -25.50 | 46.66 | 20.91 | 54.00 | 11.93 | H |
| 8383.800 | 39.73 | -34.50 | 37.68 | 36.55 | 54.00 | 14.27 | V |
| 13327.200 | 38.19 | -29.49 | 39.71 | 27.97 | 54.00 | 15.81 | V |
| 13340.400 | 38.06 | -29.49 | 39.71 | 27.84 | 54.00 | 15.94 | V |
| 11044.100 | 36.65 | -32.49 | 38.72 | 30.41 | 54.00 | 17.35 | H |

Channel 52

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17998.900 | 42.26 | -25.50 | 46.66 | 21.10 | 54.00 | 11.74 | H |
| 17994.000 | 42.15 | -25.50 | 46.66 | 20.99 | 54.00 | 11.85 | V |
| 13350.900 | 38.47 | -29.49 | 39.71 | 28.25 | 54.00 | 15.53 | V |
| 8415.700 | 38.45 | -34.35 | 37.79 | 35.01 | 54.00 | 15.55 | V |
| 13321.700 | 38.37 | -29.49 | 39.71 | 28.15 | 54.00 | 15.63 | V |
| 8416.200 | 36.43 | -34.35 | 37.79 | 32.99 | 54.00 | 17.57 | V |

Channel 56

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17997.200 | 42.41 | -25.50 | 46.66 | 21.25 | 54.00 | 11.59 | V |
| 17972.000 | 42.11 | -25.50 | 46.66 | 20.95 | 54.00 | 11.89 | H |
| 13334.900 | 38.29 | -29.49 | 39.71 | 28.07 | 54.00 | 15.71 | V |
| 13345.400 | 38.23 | -29.49 | 39.71 | 28.01 | 54.00 | 15.77 | H |
| 11924.700 | 36.49 | -31.48 | 39.09 | 28.88 | 54.00 | 17.51 | V |
| 11923.000 | 36.33 | -31.48 | 39.09 | 28.72 | 54.00 | 17.67 | H |

Channel 64

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17988.500 | 42.25 | -25.50 | 46.66 | 21.09 | 54.00 | 11.75 | H |
| 17996.200 | 42.10 | -25.50 | 46.66 | 20.94 | 54.00 | 11.90 | H |
| 13323.400 | 38.14 | -29.49 | 39.71 | 27.92 | 54.00 | 15.86 | V |
| 14494.900 | 38.03 | -28.59 | 42.46 | 24.16 | 54.00 | 15.97 | V |
| 5350.500 | 45.65 | -27.43 | 34.01 | 39.07 | 54.00 | 8.35 | H |
| 5350.800 | 45.61 | -27.43 | 34.01 | 39.03 | 54.00 | 8.39 | H |

Channel 100

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17765.200 | 42.07 | -25.50 | 46.66 | 20.91 | 54.00 | 11.93 | H |
| 17950.000 | 41.72 | -25.50 | 46.66 | 20.56 | 54.00 | 12.28 | H |
| 14499.200 | 37.97 | -28.59 | 42.46 | 24.10 | 54.00 | 16.03 | H |
| 14488.200 | 37.84 | -28.59 | 42.46 | 23.97 | 54.00 | 16.16 | V |
| 5456.600 | 45.32 | -27.18 | 34.17 | 38.33 | 54.00 | 8.68 | H |
| 5459.500 | 45.26 | -27.18 | 34.17 | 38.27 | 54.00 | 8.74 | H |

Channel 120

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17990.100 | 42.03 | -25.50 | 46.66 | 20.87 | 54.00 | 11.97 | V |
| 17991.200 | 41.71 | -25.50 | 46.66 | 20.55 | 54.00 | 12.29 | V |
| 13353.600 | 37.88 | -29.49 | 39.71 | 27.66 | 54.00 | 16.12 | H |
| 13359.100 | 37.71 | -29.49 | 39.71 | 27.49 | 54.00 | 16.29 | V |
| 11938.500 | 36.34 | -31.48 | 39.09 | 28.73 | 54.00 | 17.66 | H |
| 11046.900 | 36.21 | -32.49 | 38.72 | 29.97 | 54.00 | 17.79 | H |

Channel 140

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17956.000 | 41.78 | -25.50 | 46.66 | 20.62 | 54.00 | 12.22 | H |
| 17931.200 | 41.70 | -25.50 | 46.66 | 20.54 | 54.00 | 12.30 | H |
| 13344.800 | 38.11 | -29.49 | 39.71 | 27.89 | 54.00 | 15.89 | V |
| 14491.000 | 38.01 | -28.59 | 42.46 | 24.14 | 54.00 | 15.99 | V |
| 11929.100 | 36.38 | -31.48 | 39.09 | 28.77 | 54.00 | 17.62 | V |
| 11922.000 | 36.30 | -31.48 | 39.09 | 28.69 | 54.00 | 17.70 | H |

802.11n-HT20

Channel 36

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17996.700 | 42.22 | -25.50 | 46.66 | 21.06 | 54.00 | 11.78 | V |
| 17983.000 | 42.05 | -25.50 | 46.66 | 20.89 | 54.00 | 11.95 | V |
| 8287.500 | 39.28 | -34.97 | 37.56 | 36.68 | 54.00 | 14.72 | V |
| 8288.100 | 38.30 | -34.97 | 37.56 | 35.70 | 54.00 | 15.70 | V |
| 5150.000 | 48.65 | -27.61 | 33.67 | 42.59 | 54.00 | 5.35 | H |
| 5149.900 | 48.59 | -27.61 | 33.67 | 42.53 | 54.00 | 5.41 | H |

Channel 40

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17986.800 | 42.07 | -25.50 | 46.66 | 20.91 | 54.00 | 11.93 | H |
| 17975.800 | 42.06 | -25.50 | 46.66 | 20.90 | 54.00 | 11.94 | H |
| 8320.000 | 39.81 | -34.97 | 37.56 | 37.21 | 54.00 | 14.19 | V |
| 8319.500 | 38.81 | -34.97 | 37.56 | 36.21 | 54.00 | 15.19 | V |
| 13333.800 | 37.87 | -29.49 | 39.71 | 27.65 | 54.00 | 16.13 | V |
| 14494.900 | 37.82 | -28.59 | 42.46 | 23.95 | 54.00 | 16.18 | V |

Channel 48

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17792.100 | 41.91 | -25.50 | 46.66 | 20.75 | 54.00 | 12.09 | H |
| 17958.800 | 41.86 | -25.50 | 46.66 | 20.70 | 54.00 | 12.14 | V |
| 8383.800 | 39.63 | -34.50 | 37.68 | 36.45 | 54.00 | 14.37 | V |
| 14480.000 | 37.94 | -28.59 | 42.46 | 24.07 | 54.00 | 16.06 | V |
| 13380.000 | 37.93 | -29.49 | 39.71 | 27.71 | 54.00 | 16.07 | V |
| 8383.200 | 36.41 | -34.50 | 37.68 | 33.23 | 54.00 | 17.59 | V |

Channel 52

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17778.300 | 42.24 | -25.50 | 46.66 | 21.08 | 54.00 | 11.76 | V |
| 17966.500 | 41.92 | -25.50 | 46.66 | 20.76 | 54.00 | 12.08 | H |
| 8415.700 | 38.66 | -34.35 | 37.79 | 35.22 | 54.00 | 15.34 | V |
| 13341.500 | 38.51 | -29.49 | 39.71 | 28.29 | 54.00 | 15.49 | V |
| 14487.700 | 38.32 | -28.59 | 42.46 | 24.45 | 54.00 | 15.68 | V |
| 11948.900 | 36.45 | -31.48 | 39.09 | 28.84 | 54.00 | 17.55 | H |

Channel 56

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17997.800 | 42.05 | -25.50 | 46.66 | 20.89 | 54.00 | 11.95 | H |
| 17992.300 | 41.98 | -25.50 | 46.66 | 20.82 | 54.00 | 12.02 | V |
| 13347.000 | 38.41 | -29.49 | 39.71 | 28.19 | 54.00 | 15.59 | V |
| 13350.900 | 38.22 | -29.49 | 39.71 | 28.00 | 54.00 | 15.78 | H |
| 8447.600 | 37.29 | -34.35 | 37.79 | 33.85 | 54.00 | 16.71 | V |
| 11857.600 | 36.44 | -31.85 | 39.05 | 29.24 | 54.00 | 17.56 | H |

Channel 64

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17981.800 | 42.16 | -25.50 | 46.66 | 21.00 | 54.00 | 11.84 | V |
| 17996.200 | 42.13 | -25.50 | 46.66 | 20.97 | 54.00 | 11.87 | H |
| 14494.300 | 38.16 | -28.59 | 42.46 | 24.29 | 54.00 | 15.84 | V |
| 13339.300 | 38.11 | -29.49 | 39.71 | 27.89 | 54.00 | 15.89 | V |
| 5350.300 | 46.53 | -27.43 | 34.01 | 39.95 | 54.00 | 7.47 | H |
| 5350.100 | 46.31 | -27.43 | 34.01 | 39.73 | 54.00 | 7.69 | H |

Channel 100

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17953.800 | 41.79 | -25.50 | 46.66 | 20.63 | 54.00 | 12.21 | H |
| 17717.800 | 41.69 | -25.74 | 45.95 | 21.48 | 54.00 | 12.31 | H |
| 14495.400 | 37.85 | -28.59 | 42.46 | 23.98 | 54.00 | 16.15 | V |
| 14498.700 | 37.73 | -28.59 | 42.46 | 23.86 | 54.00 | 16.27 | H |
| 5456.000 | 44.68 | -27.18 | 34.17 | 37.69 | 54.00 | 9.32 | H |
| 5457.300 | 44.58 | -27.18 | 34.17 | 37.59 | 54.00 | 9.42 | H |

Channel 120

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17793.200 | 42.06 | -25.50 | 46.66 | 20.90 | 54.00 | 11.94 | V |
| 17998.300 | 41.83 | -25.50 | 46.66 | 20.67 | 54.00 | 12.17 | V |
| 14479.500 | 37.92 | -28.59 | 42.46 | 24.05 | 54.00 | 16.08 | H |
| 13344.200 | 37.91 | -29.49 | 39.71 | 27.69 | 54.00 | 16.09 | V |
| 11050.800 | 36.26 | -32.49 | 38.72 | 30.02 | 54.00 | 17.74 | H |
| 11926.900 | 36.25 | -31.48 | 39.09 | 28.64 | 54.00 | 17.75 | H |

Channel 140

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17920.800 | 41.81 | -25.50 | 46.66 | 20.65 | 54.00 | 12.19 | H |
| 17744.800 | 41.78 | -25.50 | 46.66 | 20.62 | 54.00 | 12.22 | V |
| 14488.200 | 37.88 | -28.59 | 42.46 | 24.01 | 54.00 | 16.12 | H |
| 13352.500 | 37.80 | -29.49 | 39.71 | 27.58 | 54.00 | 16.20 | H |
| 11053.500 | 36.38 | -32.49 | 38.72 | 30.14 | 54.00 | 17.62 | V |
| 11043.600 | 36.32 | -32.49 | 38.72 | 30.08 | 54.00 | 17.68 | V |

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Channel 38

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17782.200 | 41.98 | -25.50 | 46.66 | 20.82 | 54.00 | 12.02 | H |
| 17997.200 | 41.86 | -25.50 | 46.66 | 20.70 | 54.00 | 12.14 | V |
| 8303.500 | 39.46 | -34.97 | 37.56 | 36.86 | 54.00 | 14.54 | V |
| 8304.000 | 38.89 | -34.97 | 37.56 | 36.29 | 54.00 | 15.11 | V |
| 5149.100 | 52.74 | -27.61 | 33.67 | 46.68 | 54.00 | 1.26 | H |
| 5149.800 | 52.65 | -27.61 | 33.67 | 46.59 | 54.00 | 1.35 | H |

Channel 46

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17995.600 | 41.89 | -25.50 | 46.66 | 20.73 | 54.00 | 12.11 | V |
| 17970.800 | 41.76 | -25.50 | 46.66 | 20.60 | 54.00 | 12.24 | H |
| 8367.900 | 39.86 | -34.50 | 37.68 | 36.68 | 54.00 | 14.14 | V |
| 14486.000 | 37.87 | -28.59 | 42.46 | 24.00 | 54.00 | 16.13 | H |
| 14499.200 | 37.83 | -28.59 | 42.46 | 23.96 | 54.00 | 16.17 | H |
| 8367.300 | 36.86 | -34.50 | 37.68 | 33.68 | 54.00 | 17.14 | V |

Channel 54

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17979.700 | 42.11 | -25.50 | 46.66 | 20.95 | 54.00 | 11.89 | H |
| 17995.000 | 42.11 | -25.50 | 46.66 | 20.95 | 54.00 | 11.89 | H |
| 14487.100 | 38.39 | -28.59 | 42.46 | 24.52 | 54.00 | 15.61 | H |
| 13347.500 | 38.22 | -29.49 | 39.71 | 28.00 | 54.00 | 15.78 | V |
| 8431.600 | 36.85 | -34.35 | 37.79 | 33.41 | 54.00 | 17.15 | V |
| 11934.000 | 36.38 | -31.48 | 39.09 | 28.77 | 54.00 | 17.62 | H |

Channel 62

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17997.800 | 42.21 | -25.50 | 46.66 | 21.05 | 54.00 | 11.79 | H |
| 17993.400 | 42.16 | -25.50 | 46.66 | 21.00 | 54.00 | 11.84 | V |
| 13339.900 | 38.60 | -29.49 | 39.71 | 28.38 | 54.00 | 15.40 | V |
| 14491.000 | 38.27 | -28.59 | 42.46 | 24.40 | 54.00 | 15.73 | H |
| 5350.600 | 53.45 | -27.43 | 34.01 | 46.87 | 54.00 | 0.55 | H |
| 5350.200 | 53.44 | -27.43 | 34.01 | 46.86 | 54.00 | 0.56 | H |

Channel 102

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17962.000 | 41.95 | -25.50 | 46.66 | 20.79 | 54.00 | 12.05 | V |
| 17943.900 | 41.89 | -25.50 | 46.66 | 20.73 | 54.00 | 12.11 | H |
| 13335.500 | 37.75 | -29.49 | 39.71 | 27.53 | 54.00 | 16.25 | H |
| 13358.000 | 37.74 | -29.49 | 39.71 | 27.52 | 54.00 | 16.26 | H |
| 5459.800 | 44.55 | -27.18 | 34.17 | 37.56 | 54.00 | 9.45 | H |
| 5459.900 | 44.54 | -27.18 | 34.17 | 37.55 | 54.00 | 9.46 | H |

Channel 118

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17966.500 | 41.96 | -25.50 | 46.66 | 20.80 | 54.00 | 12.04 | V |
| 17925.200 | 41.95 | -25.50 | 46.66 | 20.79 | 54.00 | 12.05 | V |
| 13342.000 | 38.08 | -29.49 | 39.71 | 27.86 | 54.00 | 15.92 | H |
| 14496.500 | 38.02 | -28.59 | 42.46 | 24.15 | 54.00 | 15.98 | V |
| 11944.500 | 36.33 | -31.48 | 39.09 | 28.72 | 54.00 | 17.67 | H |
| 11521.500 | 36.18 | -32.26 | 38.84 | 29.61 | 54.00 | 17.82 | V |

Channel 134

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17974.700 | 41.87 | -25.50 | 46.66 | 20.71 | 54.00 | 12.13 | V |
| 17934.500 | 41.86 | -25.50 | 46.66 | 20.70 | 54.00 | 12.14 | V |
| 14489.900 | 38.04 | -28.59 | 42.46 | 24.17 | 54.00 | 15.96 | V |
| 14492.600 | 37.99 | -28.59 | 42.46 | 24.12 | 54.00 | 16.01 | H |
| 11958.800 | 36.21 | -31.48 | 39.09 | 28.60 | 54.00 | 17.79 | H |
| 11963.200 | 36.13 | -31.48 | 39.09 | 28.52 | 54.00 | 17.87 | V |

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Channel 36

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17919.700 | 41.91 | -25.50 | 46.66 | 20.75 | 54.00 | 12.09 | V |
| 17782.800 | 41.89 | -25.50 | 46.66 | 20.73 | 54.00 | 12.11 | V |
| 8287.500 | 39.94 | -34.97 | 37.56 | 37.34 | 54.00 | 14.06 | V |
| 8288.100 | 39.00 | -34.97 | 37.56 | 36.40 | 54.00 | 15.00 | V |
| 5149.900 | 46.10 | -27.61 | 33.67 | 40.04 | 54.00 | 7.90 | H |
| 5149.900 | 45.98 | -27.61 | 33.67 | 39.92 | 54.00 | 8.02 | H |

Channel 40

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17721.700 | 42.02 | -25.74 | 45.95 | 21.81 | 54.00 | 11.98 | H |
| 17945.000 | 41.72 | -25.50 | 46.66 | 20.56 | 54.00 | 12.28 | H |
| 8320.000 | 39.94 | -34.97 | 37.56 | 37.34 | 54.00 | 14.06 | V |
| 8319.500 | 39.52 | -34.97 | 37.56 | 36.92 | 54.00 | 14.48 | V |
| 14499.200 | 37.81 | -28.59 | 42.46 | 23.94 | 54.00 | 16.19 | V |
| 14488.800 | 37.75 | -28.59 | 42.46 | 23.88 | 54.00 | 16.25 | V |

Channel 48

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17709.600 | 42.01 | -25.74 | 45.95 | 21.80 | 54.00 | 11.99 | V |
| 17997.800 | 41.91 | -25.50 | 46.66 | 20.75 | 54.00 | 12.09 | V |
| 8383.800 | 39.21 | -34.50 | 37.68 | 36.03 | 54.00 | 14.79 | V |
| 13332.100 | 38.10 | -29.49 | 39.71 | 27.88 | 54.00 | 15.90 | H |
| 14499.200 | 37.91 | -28.59 | 42.46 | 24.04 | 54.00 | 16.09 | V |
| 11534.200 | 36.38 | -32.26 | 38.84 | 29.81 | 54.00 | 17.62 | V |

Channel 52

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17996.700 | 42.62 | -25.50 | 46.66 | 21.46 | 54.00 | 11.38 | V |
| 17763.000 | 42.58 | -25.50 | 46.66 | 21.42 | 54.00 | 11.42 | V |
| 8415.700 | 39.66 | -34.35 | 37.79 | 36.22 | 54.00 | 14.34 | V |
| 13344.200 | 38.59 | -29.49 | 39.71 | 28.37 | 54.00 | 15.41 | V |
| 13333.200 | 38.58 | -29.49 | 39.71 | 28.36 | 54.00 | 15.42 | H |
| 11044.100 | 36.74 | -32.49 | 38.72 | 30.50 | 54.00 | 17.26 | V |

Channel 56

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17988.500 | 42.28 | -25.50 | 46.66 | 21.12 | 54.00 | 11.72 | H |
| 17951.000 | 42.24 | -25.50 | 46.66 | 21.08 | 54.00 | 11.76 | V |
| 13334.900 | 38.27 | -29.49 | 39.71 | 28.05 | 54.00 | 15.73 | V |
| 13342.600 | 38.19 | -29.49 | 39.71 | 27.97 | 54.00 | 15.81 | H |
| 8447.600 | 37.88 | -34.35 | 37.79 | 34.44 | 54.00 | 16.12 | V |
| 11043.000 | 36.38 | -32.49 | 38.72 | 30.14 | 54.00 | 17.62 | H |

Channel 64

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17993.400 | 42.33 | -25.50 | 46.66 | 21.17 | 54.00 | 11.67 | V |
| 17946.100 | 42.02 | -25.50 | 46.66 | 20.86 | 54.00 | 11.98 | H |
| 13369.000 | 38.19 | -29.49 | 39.71 | 27.97 | 54.00 | 15.81 | V |
| 13348.100 | 38.15 | -29.49 | 39.71 | 27.93 | 54.00 | 15.85 | H |
| 5350.500 | 45.09 | -27.43 | 34.01 | 38.51 | 54.00 | 8.91 | H |
| 5350.600 | 45.03 | -27.43 | 34.01 | 38.45 | 54.00 | 8.97 | H |

Channel 100

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17981.300 | 41.77 | -25.50 | 46.66 | 20.61 | 54.00 | 12.23 | V |
| 17767.300 | 41.75 | -25.50 | 46.66 | 20.59 | 54.00 | 12.25 | H |
| 14494.300 | 37.89 | -28.59 | 42.46 | 24.02 | 54.00 | 16.11 | V |
| 14498.100 | 37.78 | -28.59 | 42.46 | 23.91 | 54.00 | 16.22 | V |
| 5444.200 | 43.44 | -27.18 | 34.17 | 36.45 | 54.00 | 10.56 | H |
| 5457.200 | 43.39 | -27.18 | 34.17 | 36.40 | 54.00 | 10.61 | H |

Channel 120

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17758.500 | 41.85 | -25.50 | 46.66 | 20.69 | 54.00 | 12.15 | V |
| 17937.800 | 41.76 | -25.50 | 46.66 | 20.60 | 54.00 | 12.24 | H |
| 14489.900 | 37.93 | -28.59 | 42.46 | 24.06 | 54.00 | 16.07 | H |
| 13339.900 | 37.79 | -29.49 | 39.71 | 27.57 | 54.00 | 16.21 | V |
| 11467.100 | 36.24 | -32.26 | 38.84 | 29.67 | 54.00 | 17.76 | H |
| 11923.600 | 36.24 | -31.48 | 39.09 | 28.63 | 54.00 | 17.76 | H |

Channel 140

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17774.000 | 41.95 | -25.50 | 46.66 | 20.79 | 54.00 | 12.05 | H |
| 17751.400 | 41.90 | -25.50 | 46.66 | 20.74 | 54.00 | 12.10 | V |
| 13346.500 | 38.07 | -29.49 | 39.71 | 27.85 | 54.00 | 15.93 | V |
| 14478.900 | 37.95 | -28.59 | 42.46 | 24.08 | 54.00 | 16.05 | V |
| 11956.000 | 36.45 | -31.48 | 39.09 | 28.84 | 54.00 | 17.55 | H |
| 11532.500 | 36.18 | -32.26 | 38.84 | 29.61 | 54.00 | 17.82 | V |

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Channel 38

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17951.600 | 42.12 | -25.50 | 46.66 | 20.96 | 54.00 | 11.88 | H |
| 17994.000 | 42.12 | -25.50 | 46.66 | 20.96 | 54.00 | 11.88 | H |
| 8303.500 | 39.81 | -34.97 | 37.56 | 37.21 | 54.00 | 14.19 | V |
| 8304.000 | 39.35 | -34.97 | 37.56 | 36.75 | 54.00 | 14.65 | V |
| 5149.600 | 52.11 | -27.61 | 33.67 | 46.05 | 54.00 | 1.89 | H |
| 5149.400 | 52.01 | -27.61 | 33.67 | 45.95 | 54.00 | 1.99 | H |

Channel 46

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17964.800 | 41.93 | -25.50 | 46.66 | 20.77 | 54.00 | 12.07 | V |
| 17990.100 | 41.93 | -25.50 | 46.66 | 20.77 | 54.00 | 12.07 | V |
| 13356.400 | 38.33 | -29.49 | 39.71 | 28.11 | 54.00 | 15.67 | H |
| 13345.900 | 38.27 | -29.49 | 39.71 | 28.05 | 54.00 | 15.73 | H |
| 8367.900 | 37.16 | -34.50 | 37.68 | 33.98 | 54.00 | 16.84 | H |
| 8367.300 | 36.99 | -34.50 | 37.68 | 33.81 | 54.00 | 17.01 | V |

Channel 54

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17993.400 | 42.04 | -25.50 | 46.66 | 20.88 | 54.00 | 11.96 | H |
| 17994.500 | 41.94 | -25.50 | 46.66 | 20.78 | 54.00 | 12.06 | H |
| 13331.000 | 38.16 | -29.49 | 39.71 | 27.94 | 54.00 | 15.84 | H |
| 13339.300 | 38.12 | -29.49 | 39.71 | 27.90 | 54.00 | 15.88 | V |
| 8431.600 | 37.44 | -34.35 | 37.79 | 34.00 | 54.00 | 16.56 | V |
| 11940.600 | 36.70 | -31.48 | 39.09 | 29.09 | 54.00 | 17.30 | H |

Channel 62

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17994.500 | 42.11 | -25.50 | 46.66 | 20.95 | 54.00 | 11.89 | V |
| 17987.300 | 42.09 | -25.50 | 46.66 | 20.93 | 54.00 | 11.91 | V |
| 13349.200 | 38.09 | -29.49 | 39.71 | 27.87 | 54.00 | 15.91 | H |
| 13350.300 | 38.05 | -29.49 | 39.71 | 27.83 | 54.00 | 15.95 | V |
| 5350.100 | 51.29 | -27.43 | 34.01 | 44.71 | 54.00 | 2.71 | H |
| 5350.400 | 51.15 | -27.43 | 34.01 | 44.57 | 54.00 | 2.85 | H |

Channel 102

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17989.000 | 41.99 | -25.50 | 46.66 | 20.83 | 54.00 | 12.01 | V |
| 17990.700 | 41.89 | -25.50 | 46.66 | 20.73 | 54.00 | 12.11 | H |
| 14493.800 | 38.01 | -28.59 | 42.46 | 24.14 | 54.00 | 15.99 | H |
| 14483.900 | 37.98 | -28.59 | 42.46 | 24.11 | 54.00 | 16.02 | H |
| 5459.900 | 45.60 | -27.18 | 34.17 | 38.61 | 54.00 | 8.40 | H |
| 5458.400 | 45.44 | -27.18 | 34.17 | 38.45 | 54.00 | 8.56 | H |

Channel 118

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17990.100 | 41.98 | -25.50 | 46.66 | 20.82 | 54.00 | 12.02 | H |
| 17981.300 | 41.93 | -25.50 | 46.66 | 20.77 | 54.00 | 12.07 | V |
| 13347.000 | 38.03 | -29.49 | 39.71 | 27.81 | 54.00 | 15.97 | H |
| 14483.300 | 37.95 | -28.59 | 42.46 | 24.08 | 54.00 | 16.05 | V |
| 11941.800 | 36.23 | -31.48 | 39.09 | 28.62 | 54.00 | 17.77 | V |
| 10958.900 | 36.19 | -32.82 | 38.70 | 30.31 | 54.00 | 17.81 | V |

Channel 134

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17968.700 | 42.10 | -25.50 | 46.66 | 20.94 | 54.00 | 11.90 | V |
| 17936.800 | 41.88 | -25.50 | 46.66 | 20.72 | 54.00 | 12.12 | V |
| 14492.600 | 37.84 | -28.59 | 42.46 | 23.97 | 54.00 | 16.16 | H |
| 13320.600 | 37.72 | -29.49 | 39.71 | 27.50 | 54.00 | 16.28 | V |
| 11042.500 | 36.18 | -32.49 | 38.72 | 29.94 | 54.00 | 17.82 | H |
| 11908.200 | 36.17 | -31.85 | 39.05 | 28.97 | 54.00 | 17.83 | H |

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Channel 42

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17988.500 | 42.22 | -25.50 | 46.66 | 21.06 | 54.00 | 11.78 | H |
| 17996.700 | 41.95 | -25.50 | 46.66 | 20.79 | 54.00 | 12.05 | V |
| 8336.000 | 39.98 | -34.50 | 37.68 | 36.80 | 54.00 | 14.02 | V |
| 8335.400 | 38.39 | -34.50 | 37.68 | 35.21 | 54.00 | 15.61 | V |
| 5149.900 | 53.68 | -27.61 | 33.67 | 47.62 | 54.00 | 0.32 | H |
| 5149.700 | 53.63 | -27.61 | 33.67 | 47.57 | 54.00 | 0.37 | H |

Channel 58

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17995.000 | 42.75 | -25.50 | 46.66 | 21.59 | 54.00 | 11.25 | H |
| 17995.600 | 42.10 | -25.50 | 46.66 | 20.94 | 54.00 | 11.90 | V |
| 13340.400 | 38.12 | -29.49 | 39.71 | 27.90 | 54.00 | 15.88 | V |
| 13342.600 | 38.08 | -29.49 | 39.71 | 27.86 | 54.00 | 15.92 | V |
| 5352.400 | 53.43 | -27.43 | 34.01 | 46.85 | 54.00 | 0.57 | H |
| 5350.800 | 53.29 | -27.43 | 34.01 | 46.71 | 54.00 | 0.71 | H |

Channel 106

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17998.900 | 42.00 | -25.50 | 46.66 | 20.84 | 54.00 | 12.00 | V |
| 17978.500 | 41.98 | -25.50 | 46.66 | 20.82 | 54.00 | 12.02 | V |
| 13336.500 | 38.09 | -29.49 | 39.71 | 27.87 | 54.00 | 15.91 | V |
| 14486.600 | 38.06 | -28.59 | 42.46 | 24.19 | 54.00 | 15.94 | V |
| 5457.000 | 46.00 | -27.18 | 34.17 | 39.01 | 54.00 | 8.00 | H |
| 5458.800 | 45.97 | -27.18 | 34.17 | 38.98 | 54.00 | 8.03 | H |

Channel 122

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17710.200 | 41.96 | -25.74 | 45.95 | 21.75 | 54.00 | 12.04 | H |
| 17919.700 | 41.86 | -25.50 | 46.66 | 20.70 | 54.00 | 12.14 | V |
| 13344.800 | 38.31 | -29.49 | 39.71 | 28.09 | 54.00 | 15.69 | H |
| 13325.500 | 37.81 | -29.49 | 39.71 | 27.59 | 54.00 | 16.19 | V |
| 11448.400 | 36.22 | -32.26 | 38.84 | 29.65 | 54.00 | 17.78 | V |
| 11917.500 | 36.18 | -31.48 | 39.09 | 28.57 | 54.00 | 17.82 | H |

PEAK Results:
802.11a

Channel 36

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17625.500 | 53.25 | -25.74 | 45.95 | 33.04 | 68.30 | 15.05 | V |
| 17324.000 | 52.93 | -25.95 | 44.35 | 34.52 | 68.30 | 15.37 | V |
| 13721.500 | 50.19 | -29.10 | 40.86 | 38.42 | 68.30 | 18.11 | V |
| 13682.000 | 50.17 | -29.50 | 40.43 | 39.24 | 68.30 | 18.13 | H |
| 5147.500 | 63.93 | -27.61 | 33.67 | 57.87 | 74.00 | 10.07 | H |
| 5148.100 | 63.69 | -27.61 | 33.67 | 57.63 | 74.00 | 10.31 | H |

Channel 40

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17392.800 | 53.31 | -26.85 | 45.25 | 34.91 | 68.30 | 14.99 | V |
| 17611.200 | 53.12 | -25.74 | 45.95 | 32.91 | 68.30 | 15.18 | H |
| 13682.500 | 51.29 | -29.50 | 40.43 | 40.36 | 68.30 | 17.01 | V |
| 13764.500 | 50.61 | -29.10 | 40.86 | 38.84 | 68.30 | 17.69 | V |
| 11532.000 | 47.89 | -32.26 | 38.84 | 41.32 | 74.00 | 26.11 | H |
| 10891.200 | 47.37 | -32.33 | 38.59 | 41.11 | 74.00 | 26.63 | H |

Channel 48

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17437.300 | 52.98 | -26.85 | 45.25 | 34.58 | 68.30 | 15.32 | V |
| 17925.200 | 52.74 | -25.50 | 46.66 | 31.58 | 74.00 | 21.26 | H |
| 13639.600 | 50.62 | -29.50 | 40.43 | 39.69 | 68.30 | 17.68 | V |
| 13552.700 | 50.50 | -29.56 | 39.99 | 40.07 | 68.30 | 17.80 | V |
| 11625.000 | 47.89 | -32.31 | 38.91 | 41.30 | 74.00 | 26.11 | H |
| 10473.800 | 47.31 | -32.99 | 38.27 | 42.02 | 68.30 | 20.99 | V |

Channel 52

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17987.300 | 52.79 | -25.50 | 46.66 | 31.63 | 74.00 | 21.21 | V |
| 17935.100 | 52.70 | -25.50 | 46.66 | 31.54 | 74.00 | 21.30 | H |
| 13643.500 | 51.50 | -29.50 | 40.43 | 40.57 | 68.30 | 16.80 | V |
| 13774.400 | 50.29 | -29.10 | 40.86 | 38.52 | 68.30 | 18.01 | V |
| 11149.800 | 48.07 | -32.60 | 38.75 | 41.93 | 74.00 | 25.93 | H |
| 10581.600 | 47.50 | -32.76 | 38.38 | 41.88 | 68.30 | 20.80 | V |

Channel 56

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17539.700 | 53.20 | -26.85 | 45.25 | 34.80 | 68.30 | 15.10 | V |
| 17987.300 | 52.97 | -25.50 | 46.66 | 31.81 | 74.00 | 21.03 | V |
| 13684.700 | 50.78 | -29.50 | 40.43 | 39.85 | 68.30 | 17.52 | H |
| 13608.800 | 50.67 | -29.50 | 40.43 | 39.74 | 68.30 | 17.63 | H |
| 10560.700 | 46.99 | -32.99 | 38.27 | 41.70 | 68.30 | 21.31 | V |
| 11999.500 | 46.99 | -31.48 | 39.09 | 39.38 | 74.00 | 27.01 | V |

Channel 64

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17920.200 | 52.68 | -25.50 | 46.66 | 31.52 | 74.00 | 21.32 | V |
| 17995.600 | 52.67 | -25.50 | 46.66 | 31.51 | 74.00 | 21.33 | H |
| 13746.300 | 50.25 | -29.10 | 40.86 | 38.48 | 68.30 | 18.05 | V |
| 13638.000 | 50.06 | -29.50 | 40.43 | 39.13 | 68.30 | 18.24 | H |
| 5350.300 | 66.40 | -27.43 | 34.01 | 59.82 | 74.00 | 7.60 | H |
| 5350.800 | 65.83 | -27.43 | 34.01 | 59.25 | 74.00 | 8.17 | H |

Channel 100

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17409.800 | 52.60 | -26.85 | 45.25 | 34.20 | 68.30 | 15.70 | H |
| 17723.300 | 52.32 | -25.74 | 45.95 | 32.11 | 74.00 | 21.68 | V |
| 13752.900 | 50.41 | -29.10 | 40.86 | 38.64 | 68.30 | 17.89 | H |
| 13538.400 | 50.39 | -29.56 | 39.99 | 39.96 | 68.30 | 17.91 | V |
| 5458.700 | 61.07 | -27.18 | 34.17 | 54.08 | 74.00 | 12.93 | H |
| 5467.900 | 66.28 | -27.18 | 34.17 | 59.29 | 68.30 | 2.02 | H |

Channel 120

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17808.600 | 53.04 | -25.50 | 46.66 | 31.88 | 74.00 | 20.96 | V |
| 17513.800 | 52.09 | -26.85 | 45.25 | 33.69 | 68.30 | 16.21 | V |
| 13754.000 | 51.04 | -29.10 | 40.86 | 39.27 | 68.30 | 17.26 | V |
| 13590.100 | 50.50 | -29.50 | 40.43 | 39.57 | 68.30 | 17.80 | H |
| 11946.100 | 47.28 | -31.48 | 39.09 | 39.67 | 74.00 | 26.72 | V |
| 10953.400 | 46.74 | -32.82 | 38.70 | 40.86 | 74.00 | 27.26 | V |

Channel 140

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17783.800 | 52.55 | -25.50 | 46.66 | 31.39 | 74.00 | 21.45 | V |
| 17293.200 | 52.32 | -25.95 | 44.35 | 33.91 | 68.30 | 15.98 | H |
| 13645.600 | 50.23 | -29.50 | 40.43 | 39.30 | 68.30 | 18.07 | H |
| 13525.200 | 49.90 | -29.56 | 39.99 | 39.47 | 68.30 | 18.40 | H |
| 5727.800 | 67.15 | -27.07 | 34.31 | 59.91 | 68.30 | 1.15 | H |
| 5725.300 | 66.51 | -27.07 | 34.31 | 59.27 | 68.30 | 1.79 | H |

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Channel 36

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17943.900 | 52.97 | -25.50 | 46.66 | 31.81 | 74.00 | 21.03 | H |
| 17467.000 | 52.53 | -26.85 | 45.25 | 34.13 | 68.30 | 15.77 | H |
| 13534.500 | 50.07 | -29.56 | 39.99 | 39.64 | 68.30 | 18.23 | V |
| 13716.600 | 50.06 | -29.10 | 40.86 | 38.29 | 68.30 | 18.24 | V |
| 5147.600 | 64.92 | -27.61 | 33.67 | 58.86 | 74.00 | 9.08 | H |
| 5149.000 | 64.18 | -27.61 | 33.67 | 58.12 | 74.00 | 9.82 | H |

Channel 40

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17898.800 | 52.16 | -25.50 | 46.66 | 31.00 | 74.00 | 21.84 | V |
| 17886.700 | 52.07 | -25.50 | 46.66 | 30.91 | 74.00 | 21.93 | V |
| 13589.000 | 50.08 | -29.50 | 40.43 | 39.15 | 68.30 | 18.22 | V |
| 13743.000 | 50.07 | -29.10 | 40.86 | 38.30 | 68.30 | 18.23 | H |
| 10400.100 | 47.18 | -33.22 | 38.19 | 42.21 | 68.30 | 21.12 | V |
| 11869.700 | 46.85 | -31.85 | 39.05 | 39.65 | 74.00 | 27.15 | V |

Channel 48

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17521.000 | 52.13 | -26.85 | 45.25 | 33.73 | 68.30 | 16.17 | H |
| 17981.800 | 52.10 | -25.50 | 46.66 | 30.94 | 74.00 | 21.90 | V |
| 13627.000 | 49.96 | -29.50 | 40.43 | 39.03 | 68.30 | 18.34 | H |
| 13635.800 | 49.96 | -29.50 | 40.43 | 39.03 | 68.30 | 18.34 | V |
| 10898.400 | 47.01 | -32.82 | 38.70 | 41.13 | 74.00 | 26.99 | H |
| 11924.100 | 46.67 | -31.48 | 39.09 | 39.06 | 74.00 | 27.33 | V |

Channel 52

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17964.200 | 53.06 | -25.50 | 46.66 | 31.90 | 74.00 | 20.94 | H |
| 17622.200 | 52.89 | -25.74 | 45.95 | 32.68 | 68.30 | 15.41 | V |
| 13744.100 | 50.51 | -29.10 | 40.86 | 38.74 | 68.30 | 17.79 | H |
| 13547.800 | 50.44 | -29.56 | 39.99 | 40.01 | 68.30 | 17.86 | H |
| 10879.700 | 47.71 | -32.33 | 38.59 | 41.45 | 74.00 | 26.29 | H |
| 11865.300 | 47.48 | -31.85 | 39.05 | 40.28 | 74.00 | 26.52 | V |

Channel 56

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17998.300 | 53.45 | -25.50 | 46.66 | 32.29 | 74.00 | 20.55 | V |
| 17745.300 | 52.31 | -25.50 | 46.66 | 31.15 | 74.00 | 21.69 | V |
| 13738.000 | 50.92 | -29.10 | 40.86 | 39.15 | 68.30 | 17.38 | H |
| 13656.100 | 50.63 | -29.50 | 40.43 | 39.70 | 68.30 | 17.67 | H |
| 11949.500 | 47.40 | -31.48 | 39.09 | 39.79 | 74.00 | 26.60 | H |
| 11916.500 | 47.27 | -31.48 | 39.09 | 39.66 | 74.00 | 26.73 | H |

Channel 64

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17678.800 | 52.81 | -25.74 | 45.95 | 32.60 | 68.30 | 15.49 | H |
| 17983.500 | 52.43 | -25.50 | 46.66 | 31.27 | 74.00 | 21.57 | H |
| 13747.400 | 50.64 | -29.10 | 40.86 | 38.87 | 68.30 | 17.66 | H |
| 13834.300 | 50.28 | -29.51 | 41.30 | 38.49 | 68.30 | 18.02 | H |
| 5350.300 | 64.96 | -27.43 | 34.01 | 58.38 | 74.00 | 9.04 | H |
| 5353.100 | 62.58 | -27.43 | 34.01 | 56.00 | 74.00 | 11.42 | H |

Channel 100

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17773.400 | 52.70 | -25.50 | 46.66 | 31.54 | 74.00 | 21.30 | V |
| 17719.000 | 52.59 | -25.74 | 45.95 | 32.38 | 74.00 | 21.41 | V |
| 13524.600 | 50.61 | -29.56 | 39.99 | 40.18 | 68.30 | 17.69 | H |
| 13601.100 | 50.03 | -29.50 | 40.43 | 39.10 | 68.30 | 18.27 | V |
| 5458.300 | 60.16 | -27.18 | 34.17 | 53.17 | 74.00 | 13.84 | H |
| 5469.800 | 65.89 | -27.18 | 34.17 | 58.90 | 68.30 | 2.41 | H |

Channel 120

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17975.200 | 52.70 | -25.50 | 46.66 | 31.54 | 74.00 | 21.30 | V |
| 17892.200 | 52.32 | -25.50 | 46.66 | 31.16 | 74.00 | 21.68 | V |
| 13651.100 | 50.13 | -29.50 | 40.43 | 39.20 | 68.30 | 18.17 | V |
| 14093.400 | 50.10 | -29.44 | 41.66 | 37.88 | 68.30 | 18.20 | V |
| 11954.400 | 47.02 | -31.48 | 39.09 | 39.41 | 74.00 | 26.98 | V |
| 11049.600 | 46.92 | -32.49 | 38.72 | 40.68 | 74.00 | 27.08 | H |

Channel 140

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17953.800 | 52.38 | -25.50 | 46.66 | 31.22 | 74.00 | 21.62 | V |
| 17832.200 | 52.14 | -25.50 | 46.66 | 30.98 | 74.00 | 21.86 | H |
| 13565.900 | 50.04 | -29.50 | 40.43 | 39.11 | 68.30 | 18.26 | H |
| 13737.000 | 49.92 | -29.10 | 40.86 | 38.15 | 68.30 | 18.38 | H |
| 5725.300 | 67.00 | -27.07 | 34.31 | 59.76 | 68.30 | 1.30 | H |
| 5726.300 | 65.03 | -27.07 | 34.31 | 57.79 | 68.30 | 3.27 | H |

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Channel 38

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17401.000 | 52.72 | -26.85 | 45.25 | 34.32 | 68.30 | 15.58 | H |
| 17577.600 | 52.28 | -25.74 | 45.95 | 32.07 | 68.30 | 16.02 | H |
| 13633.500 | 50.71 | -29.50 | 40.43 | 39.78 | 68.30 | 17.59 | V |
| 13560.400 | 50.31 | -29.50 | 40.43 | 39.38 | 68.30 | 17.99 | V |
| 5149.600 | 69.05 | -27.61 | 33.67 | 62.99 | 74.00 | 4.95 | H |
| 5149.400 | 68.23 | -27.61 | 33.67 | 62.17 | 74.00 | 5.77 | H |

Channel 46

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17859.200 | 52.62 | -25.50 | 46.66 | 31.46 | 74.00 | 21.38 | V |
| 17296.000 | 52.38 | -25.95 | 44.35 | 33.97 | 68.30 | 15.92 | V |
| 13761.700 | 50.93 | -29.10 | 40.86 | 39.16 | 68.30 | 17.37 | H |
| 13552.100 | 50.00 | -29.56 | 39.99 | 39.57 | 68.30 | 18.30 | H |
| 11535.300 | 47.02 | -32.26 | 38.84 | 40.45 | 74.00 | 26.98 | H |
| 11522.100 | 47.00 | -32.26 | 38.84 | 40.43 | 74.00 | 27.00 | H |

Channel 54

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17945.000 | 52.79 | -25.50 | 46.66 | 31.63 | 74.00 | 21.21 | V |
| 17380.200 | 52.60 | -25.95 | 44.35 | 34.19 | 68.30 | 15.70 | H |
| 13614.900 | 51.55 | -29.50 | 40.43 | 40.62 | 68.30 | 16.75 | H |
| 13771.000 | 50.62 | -29.10 | 40.86 | 38.85 | 68.30 | 17.68 | H |
| 10534.900 | 47.35 | -32.99 | 38.27 | 42.06 | 68.30 | 20.95 | V |
| 11042.500 | 47.16 | -32.49 | 38.72 | 40.92 | 74.00 | 26.84 | H |

Channel 62

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17968.700 | 53.75 | -25.50 | 46.66 | 32.59 | 74.00 | 20.25 | V |
| 17589.200 | 52.83 | -25.74 | 45.95 | 32.62 | 68.30 | 15.47 | H |
| 13668.200 | 50.67 | -29.50 | 40.43 | 39.74 | 68.30 | 17.63 | H |
| 13717.700 | 50.31 | -29.10 | 40.86 | 38.54 | 68.30 | 17.99 | H |
| 5352.300 | 71.92 | -27.43 | 34.01 | 65.34 | 74.00 | 2.08 | H |
| 5350.200 | 69.34 | -27.43 | 34.01 | 62.76 | 74.00 | 4.66 | H |

Channel 102

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17964.200 | 53.29 | -25.50 | 46.66 | 32.13 | 74.00 | 20.71 | V |
| 17688.700 | 52.80 | -25.74 | 45.95 | 32.59 | 68.30 | 15.50 | H |
| 13637.400 | 50.02 | -29.50 | 40.43 | 39.09 | 68.30 | 18.28 | H |
| 13536.800 | 49.82 | -29.56 | 39.99 | 39.39 | 68.30 | 18.48 | H |
| 5459.500 | 60.01 | -27.18 | 34.17 | 53.02 | 74.00 | 13.99 | H |
| 5470.000 | 67.65 | -27.18 | 34.17 | 60.66 | 68.30 | 0.65 | H |

Channel 118

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17395.000 | 52.44 | -26.85 | 45.25 | 34.04 | 68.30 | 15.86 | H |
| 17934.500 | 52.41 | -25.50 | 46.66 | 31.25 | 74.00 | 21.59 | H |
| 13776.500 | 50.37 | -29.10 | 40.86 | 38.60 | 68.30 | 17.93 | H |
| 13644.000 | 50.19 | -29.50 | 40.43 | 39.26 | 68.30 | 18.11 | H |
| 11950.000 | 47.48 | -31.48 | 39.09 | 39.87 | 74.00 | 26.52 | V |
| 11521.500 | 46.59 | -32.26 | 38.84 | 40.02 | 74.00 | 27.41 | V |

Channel 134

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17698.000 | 52.66 | -25.74 | 45.95 | 32.45 | 68.30 | 15.64 | V |
| 17925.200 | 52.56 | -25.50 | 46.66 | 31.40 | 74.00 | 21.44 | H |
| 13570.900 | 50.81 | -29.50 | 40.43 | 39.88 | 68.30 | 17.49 | V |
| 13737.500 | 50.26 | -29.10 | 40.86 | 38.49 | 68.30 | 18.04 | V |
| 5725.200 | 65.50 | -27.07 | 34.31 | 58.26 | 68.30 | 2.80 | H |
| 5725.300 | 65.29 | -27.07 | 34.31 | 58.05 | 68.30 | 3.01 | H |

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Channel 36

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17946.100 | 52.22 | -25.50 | 46.66 | 31.06 | 74.00 | 21.78 | H |
| 17299.300 | 52.11 | -25.95 | 44.35 | 33.70 | 68.30 | 16.19 | V |
| 13586.800 | 50.56 | -29.50 | 40.43 | 39.63 | 68.30 | 17.74 | H |
| 13561.000 | 50.05 | -29.50 | 40.43 | 39.12 | 68.30 | 18.25 | V |
| 5147.700 | 61.06 | -27.61 | 33.67 | 55.00 | 74.00 | 12.94 | H |
| 5149.100 | 60.89 | -27.61 | 33.67 | 54.83 | 74.00 | 13.11 | H |

Channel 40

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17598.000 | 52.53 | -25.74 | 45.95 | 32.32 | 68.30 | 15.77 | H |
| 17236.000 | 52.38 | -25.95 | 44.35 | 33.97 | 68.30 | 15.92 | V |
| 13647.300 | 49.96 | -29.50 | 40.43 | 39.03 | 68.30 | 18.34 | V |
| 13628.600 | 49.94 | -29.50 | 40.43 | 39.01 | 68.30 | 18.36 | V |
| 11549.600 | 47.08 | -32.26 | 38.84 | 40.51 | 74.00 | 26.92 | V |
| 11125.500 | 46.97 | -32.60 | 38.75 | 40.83 | 74.00 | 27.03 | V |

Channel 48

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17323.000 | 53.70 | -25.95 | 44.35 | 35.29 | 68.30 | 14.60 | V |
| 17814.700 | 52.19 | -25.50 | 46.66 | 31.03 | 74.00 | 21.81 | V |
| 13595.600 | 50.36 | -29.50 | 40.43 | 39.43 | 68.30 | 17.94 | H |
| 13561.500 | 50.27 | -29.50 | 40.43 | 39.34 | 68.30 | 18.03 | H |
| 11830.100 | 47.10 | -31.85 | 39.05 | 39.90 | 74.00 | 26.90 | V |
| 9100.500 | 46.66 | -33.76 | 38.13 | 42.29 | 74.00 | 27.34 | H |

Channel 52

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17989.500 | 53.30 | -25.50 | 46.66 | 32.14 | 74.00 | 20.70 | V |
| 17925.200 | 53.04 | -25.50 | 46.66 | 31.88 | 74.00 | 20.96 | V |
| 14203.900 | 50.96 | -28.99 | 42.00 | 37.94 | 68.30 | 17.34 | V |
| 13668.200 | 50.53 | -29.50 | 40.43 | 39.60 | 68.30 | 17.77 | V |
| 10685.000 | 47.09 | -32.77 | 38.49 | 41.37 | 74.00 | 26.91 | V |
| 11616.100 | 47.06 | -32.31 | 38.91 | 40.47 | 74.00 | 26.94 | V |

Channel 56

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17838.300 | 53.30 | -25.50 | 46.66 | 32.14 | 74.00 | 20.70 | V |
| 17786.000 | 52.80 | -25.50 | 46.66 | 31.64 | 74.00 | 21.20 | V |
| 13688.500 | 50.72 | -29.50 | 40.43 | 39.79 | 68.30 | 17.58 | H |
| 13667.100 | 50.60 | -29.50 | 40.43 | 39.67 | 68.30 | 17.70 | V |
| 11788.300 | 47.40 | -31.99 | 38.98 | 40.41 | 74.00 | 26.60 | V |
| 11902.700 | 47.24 | -31.85 | 39.05 | 40.04 | 74.00 | 26.76 | H |

Channel 64

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17315.200 | 52.71 | -25.95 | 44.35 | 34.30 | 68.30 | 15.59 | V |
| 17818.500 | 52.64 | -25.50 | 46.66 | 31.48 | 74.00 | 21.36 | V |
| 13625.300 | 50.71 | -29.50 | 40.43 | 39.78 | 68.30 | 17.59 | V |
| 13585.100 | 50.54 | -29.50 | 40.43 | 39.61 | 68.30 | 17.76 | H |
| 5350.500 | 60.08 | -27.43 | 34.01 | 53.50 | 74.00 | 13.92 | H |
| 5350.200 | 59.87 | -27.43 | 34.01 | 53.29 | 74.00 | 14.13 | H |

Channel 100

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17930.700 | 52.35 | -25.50 | 46.66 | 31.19 | 74.00 | 21.65 | V |
| 17672.800 | 52.20 | -25.74 | 45.95 | 31.99 | 68.30 | 16.10 | V |
| 13565.400 | 49.86 | -29.50 | 40.43 | 38.93 | 68.30 | 18.44 | H |
| 13680.300 | 49.82 | -29.50 | 40.43 | 38.89 | 68.30 | 18.48 | H |
| 5441.400 | 55.50 | -27.18 | 34.17 | 48.51 | 74.00 | 18.50 | H |
| 5468.300 | 62.50 | -27.18 | 34.17 | 55.51 | 68.30 | 5.80 | H |

Channel 120

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17994.500 | 52.73 | -25.50 | 46.66 | 31.57 | 74.00 | 21.27 | H |
| 17627.700 | 52.25 | -25.74 | 45.95 | 32.04 | 68.30 | 16.05 | V |
| 13639.600 | 50.59 | -29.50 | 40.43 | 39.66 | 68.30 | 17.71 | V |
| 13676.500 | 50.48 | -29.50 | 40.43 | 39.55 | 68.30 | 17.82 | V |
| 11932.400 | 47.19 | -31.48 | 39.09 | 39.58 | 74.00 | 26.81 | V |
| 11890.000 | 46.72 | -31.85 | 39.05 | 39.52 | 74.00 | 27.28 | H |

Channel 140

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17768.500 | 52.48 | -25.50 | 46.66 | 31.32 | 74.00 | 21.52 | V |
| 17953.800 | 52.41 | -25.50 | 46.66 | 31.25 | 74.00 | 21.59 | V |
| 13651.100 | 49.90 | -29.50 | 40.43 | 38.97 | 68.30 | 18.40 | H |
| 13546.100 | 49.74 | -29.56 | 39.99 | 39.31 | 68.30 | 18.56 | V |
| 5725.600 | 67.39 | -27.07 | 34.31 | 60.15 | 68.30 | 0.91 | H |
| 5725.000 | 66.58 | -27.07 | 34.31 | 59.34 | 68.30 | 1.72 | H |

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Channel 38

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17860.300 | 53.09 | -25.50 | 46.66 | 31.93 | 74.00 | 20.91 | V |
| 17992.800 | 52.72 | -25.50 | 46.66 | 31.56 | 74.00 | 21.28 | V |
| 13659.400 | 50.40 | -29.50 | 40.43 | 39.47 | 68.30 | 17.90 | V |
| 13746.900 | 50.03 | -29.10 | 40.86 | 38.26 | 68.30 | 18.27 | H |
| 5149.500 | 67.75 | -27.61 | 33.67 | 61.69 | 74.00 | 6.25 | H |
| 5149.800 | 65.94 | -27.61 | 33.67 | 59.88 | 74.00 | 8.06 | H |

Channel 46

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17996.700 | 52.84 | -25.50 | 46.66 | 31.68 | 74.00 | 21.16 | H |
| 17392.800 | 52.35 | -26.85 | 45.25 | 33.95 | 68.30 | 15.95 | H |
| 13719.400 | 50.34 | -29.10 | 40.86 | 38.57 | 68.30 | 17.96 | H |
| 13557.600 | 50.13 | -29.56 | 39.99 | 39.70 | 68.30 | 18.17 | V |
| 11530.400 | 47.28 | -32.26 | 38.84 | 40.71 | 74.00 | 26.72 | V |
| 8792.500 | 47.10 | -33.90 | 38.07 | 42.93 | 68.30 | 21.20 | V |

Channel 54

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17795.400 | 52.26 | -25.50 | 46.66 | 31.10 | 74.00 | 21.74 | H |
| 17876.800 | 52.18 | -25.50 | 46.66 | 31.02 | 74.00 | 21.82 | H |
| 13624.800 | 50.31 | -29.50 | 40.43 | 39.38 | 68.30 | 17.99 | H |
| 13712.200 | 50.31 | -29.10 | 40.86 | 38.54 | 68.30 | 17.99 | V |
| 11961.500 | 47.19 | -31.48 | 39.09 | 39.58 | 74.00 | 26.81 | V |
| 11435.800 | 47.01 | -32.42 | 38.79 | 40.64 | 74.00 | 26.99 | V |

Channel 62

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17952.200 | 52.37 | -25.50 | 46.66 | 31.21 | 74.00 | 21.63 | H |
| 17997.800 | 52.00 | -25.50 | 46.66 | 30.84 | 74.00 | 22.00 | V |
| 13606.600 | 50.96 | -29.50 | 40.43 | 40.03 | 68.30 | 17.34 | V |
| 13754.500 | 50.28 | -29.10 | 40.86 | 38.51 | 68.30 | 18.02 | H |
| 5353.000 | 66.81 | -27.43 | 34.01 | 60.23 | 74.00 | 7.19 | H |
| 5350.000 | 65.19 | -27.43 | 34.01 | 58.61 | 74.00 | 8.81 | H |

Channel 102

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17236.000 | 53.20 | -25.95 | 44.35 | 34.79 | 68.30 | 15.10 | V |
| 17997.200 | 52.53 | -25.50 | 46.66 | 31.37 | 74.00 | 21.47 | H |
| 13651.100 | 50.51 | -29.50 | 40.43 | 39.58 | 68.30 | 17.79 | V |
| 13558.200 | 50.31 | -29.50 | 40.43 | 39.38 | 68.30 | 17.99 | H |
| 5458.600 | 60.37 | -27.18 | 34.17 | 53.38 | 74.00 | 13.63 | H |
| 5468.200 | 67.09 | -27.18 | 34.17 | 60.10 | 68.30 | 1.21 | H |

Channel 118

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17990.700 | 53.44 | -25.50 | 46.66 | 32.28 | 74.00 | 20.56 | H |
| 17774.000 | 52.80 | -25.50 | 46.66 | 31.64 | 74.00 | 21.20 | H |
| 13592.900 | 50.02 | -29.50 | 40.43 | 39.09 | 68.30 | 18.28 | V |
| 13561.000 | 49.95 | -29.50 | 40.43 | 39.02 | 68.30 | 18.35 | V |
| 11048.500 | 47.42 | -32.49 | 38.72 | 41.18 | 74.00 | 26.58 | H |
| 11996.200 | 47.32 | -31.48 | 39.09 | 39.71 | 74.00 | 26.68 | V |

Channel 134

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17697.500 | 52.79 | -25.74 | 45.95 | 32.58 | 68.30 | 15.51 | V |
| 17400.500 | 52.35 | -26.85 | 45.25 | 33.95 | 68.30 | 15.95 | H |
| 13543.400 | 50.68 | -29.56 | 39.99 | 40.25 | 68.30 | 17.62 | H |
| 13745.200 | 50.12 | -29.10 | 40.86 | 38.35 | 68.30 | 18.18 | V |
| 5727.200 | 61.18 | -27.07 | 34.31 | 53.94 | 68.30 | 7.12 | H |
| 5725.600 | 59.59 | -27.07 | 34.31 | 52.35 | 68.30 | 8.71 | H |

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Channel 42

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17696.400 | 52.93 | -25.74 | 45.95 | 32.72 | 68.30 | 15.37 | H |
| 17437.300 | 52.38 | -26.85 | 45.25 | 33.98 | 68.30 | 15.92 | V |
| 13716.000 | 49.88 | -29.10 | 40.86 | 38.11 | 68.30 | 18.42 | H |
| 13746.300 | 49.86 | -29.10 | 40.86 | 38.09 | 68.30 | 18.44 | V |
| 5149.600 | 66.31 | -27.61 | 33.67 | 60.25 | 74.00 | 7.69 | H |
| 5145.000 | 66.02 | -27.61 | 33.67 | 59.96 | 74.00 | 7.98 | H |

Channel 58

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17736.000 | 52.37 | -25.74 | 45.95 | 32.16 | 74.00 | 21.63 | H |
| 17961.000 | 52.18 | -25.50 | 46.66 | 31.02 | 74.00 | 21.82 | V |
| 13653.400 | 50.35 | -29.50 | 40.43 | 39.42 | 68.30 | 17.95 | V |
| 13668.800 | 50.00 | -29.50 | 40.43 | 39.07 | 68.30 | 18.30 | V |
| 5355.500 | 65.33 | -27.43 | 34.01 | 58.75 | 74.00 | 8.67 | H |
| 5355.700 | 65.31 | -27.43 | 34.01 | 58.73 | 74.00 | 8.69 | H |

Channel 106

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17404.900 | 52.55 | -26.85 | 45.25 | 34.15 | 68.30 | 15.75 | V |
| 17928.500 | 52.40 | -25.50 | 46.66 | 31.24 | 74.00 | 21.60 | H |
| 13655.000 | 50.94 | -29.50 | 40.43 | 40.01 | 68.30 | 17.36 | H |
| 13737.500 | 50.17 | -29.10 | 40.86 | 38.40 | 68.30 | 18.13 | V |
| 5459.500 | 65.81 | -27.18 | 34.17 | 58.82 | 74.00 | 8.19 | H |
| 5467.800 | 66.01 | -27.18 | 34.17 | 59.02 | 68.30 | 2.29 | H |

Channel 122

| Frequency (MHz) | Measurement Result (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBuV) | Limit (dBuV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17930.700 | 52.58 | -25.50 | 46.66 | 31.42 | 74.00 | 21.42 | H |
| 17924.700 | 52.45 | -25.50 | 46.66 | 31.29 | 74.00 | 21.55 | V |
| 13647.900 | 50.66 | -29.50 | 40.43 | 39.73 | 68.30 | 17.64 | H |
| 13525.200 | 50.18 | -29.56 | 39.99 | 39.75 | 68.30 | 18.12 | H |
| 5725.200 | 55.00 | -27.07 | 34.31 | 47.76 | 68.30 | 13.30 | H |
| 5744.500 | 54.43 | -27.07 | 34.31 | 47.19 | 68.30 | 13.87 | H |

A.7. AC Powerline Conducted Emission (150kHz- 30MHz)

Test Condition:

| Voltage (V) | Frequency (Hz) |
|-------------|----------------|
| 120 | 60 |

Measurement uncertainty:

Expanded measurement uncertainty for this test item is $U = 3.10\text{dB}$, $k=2$.

Measurement Result and limit:

WLAN (Quasi-peak Limit)

| Frequency range (MHz) | Quasi-peak Limit (dB μ V) | Result (dB μ V) | | Conclusion |
|-----------------------|-------------------------------|---------------------|--------|------------|
| | | With charger AE5 | | |
| | | 802.11a | Idle | |
| 0.15 to 0.5 | 66 to 56 | Fig.58 | Fig.59 | P |
| 0.5 to 5 | 56 | | | |
| 5 to 30 | 60 | | | |

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

| Frequency range (MHz) | Average Limit (dB μ V) | Result (dB μ V) | | Conclusion |
|-----------------------|----------------------------|---------------------|--------|------------|
| | | With charger AE5 | | |
| | | 802.11a | Idle | |
| 0.15 to 0.5 | 67 56 to 46 | Fig.58 | Fig.59 | P |
| 0.5 to 5 | 46 | | | |
| 5 to 30 | 50 | | | |

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Conclusion: PASS

Test graphs as below:

Traffic:

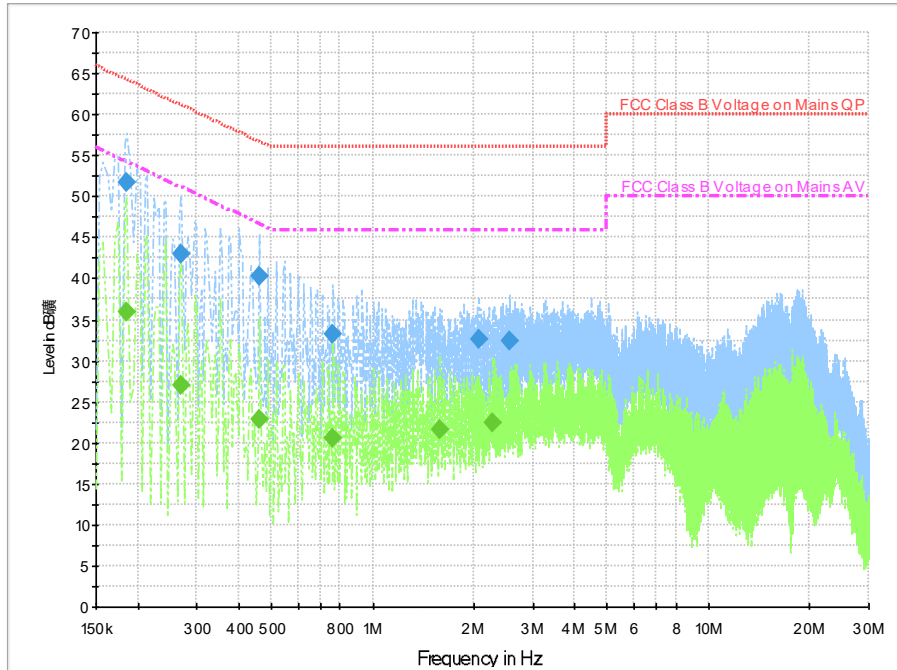


Fig.58 Conducted Emission (802.11a, Ch36, TX)

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

| Frequency (MHz) | QuasiPeak (dBμV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.186000 | 51.7 | 5000.0 | 9.000 | On | L1 | 20.0 | 12.5 | 64.2 |
| 0.270000 | 43.1 | 5000.0 | 9.000 | On | L1 | 20.0 | 18.0 | 61.1 |
| 0.458000 | 40.3 | 5000.0 | 9.000 | On | N | 20.0 | 16.4 | 56.7 |
| 0.762000 | 33.1 | 5000.0 | 9.000 | On | N | 19.8 | 22.9 | 56.0 |
| 2.070000 | 32.5 | 5000.0 | 9.000 | On | N | 19.7 | 23.5 | 56.0 |
| 2.570000 | 32.4 | 5000.0 | 9.000 | On | N | 19.7 | 23.6 | 56.0 |

Final Result 2

| Frequency (MHz) | QuasiPeak (dBμV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.186000 | 36.0 | 5000.0 | 9.000 | On | L1 | 20.0 | 18.2 | 54.2 |
| 0.270000 | 27.0 | 5000.0 | 9.000 | On | L1 | 20.0 | 24.1 | 51.1 |
| 0.462000 | 22.8 | 5000.0 | 9.000 | On | L1 | 19.9 | 23.9 | 46.7 |
| 0.762000 | 20.5 | 5000.0 | 9.000 | On | N | 19.8 | 25.5 | 46.0 |
| 1.590000 | 21.5 | 5000.0 | 9.000 | On | N | 19.8 | 24.5 | 46.0 |
| 2.278000 | 22.5 | 5000.0 | 9.000 | On | N | 19.7 | 23.5 | 46.0 |

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

Idle:

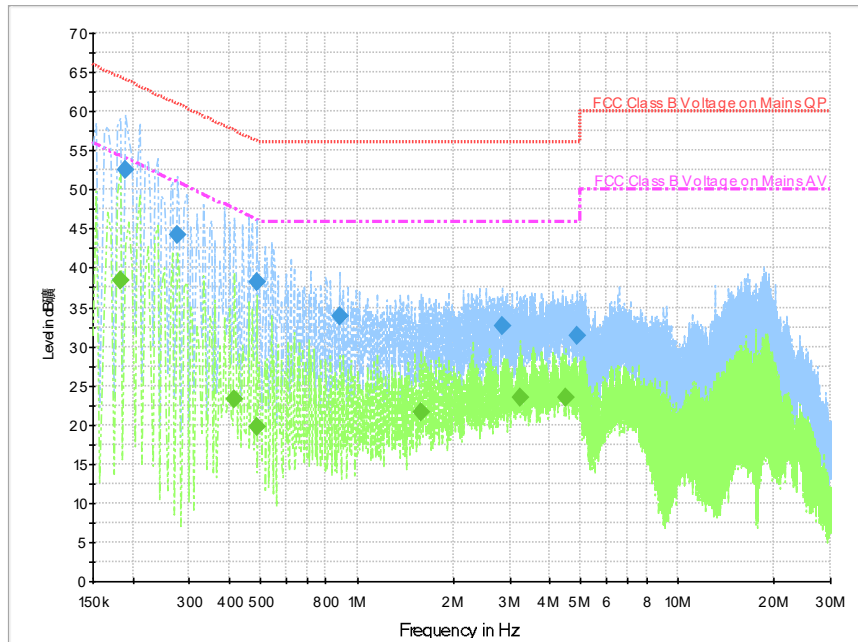


Fig.59 Conducted Emission(802.11a, IDLE)

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.190000 | 52.5 | 5000.0 | 9.000 | On | N | 19.8 | 11.6 | 64.0 |
| 0.274000 | 44.2 | 5000.0 | 9.000 | On | N | 19.8 | 16.8 | 61.0 |
| 0.486000 | 38.2 | 5000.0 | 9.000 | On | L1 | 19.9 | 18.0 | 56.2 |
| 0.882000 | 33.9 | 5000.0 | 9.000 | On | N | 19.8 | 22.1 | 56.0 |
| 2.846000 | 32.6 | 5000.0 | 9.000 | On | N | 19.7 | 23.4 | 56.0 |
| 4.846000 | 31.3 | 5000.0 | 9.000 | On | L1 | 19.6 | 24.7 | 56.0 |

Final Result 2

| Frequency (MHz) | QuasiPeak (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.190000 | 52.5 | 5000.0 | 9.000 | On | N | 19.8 | 11.6 | 64.0 |
| 0.274000 | 44.2 | 5000.0 | 9.000 | On | N | 19.8 | 16.8 | 61.0 |
| 0.486000 | 38.2 | 5000.0 | 9.000 | On | L1 | 19.9 | 18.0 | 56.2 |
| 0.882000 | 33.9 | 5000.0 | 9.000 | On | N | 19.8 | 22.1 | 56.0 |
| 2.846000 | 32.6 | 5000.0 | 9.000 | On | N | 19.7 | 23.4 | 56.0 |
| 4.846000 | 31.3 | 5000.0 | 9.000 | On | L1 | 19.6 | 24.7 | 56.0 |

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

A.8. 99% Occupied bandwidth

Method of Measurement: See ANSI C63.10-2013-clause 12.4.2.

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- 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) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. 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% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Measurement Uncertainty:

| | |
|-------------------------|---------|
| Measurement Uncertainty | 60.80Hz |
|-------------------------|---------|

Measurement Result:

| Mode | Frequency | 99% Occupied bandwidth (MHz) | | conclusion |
|------------------|-----------|-------------------------------|-------|------------|
| 802.11a | 5180 MHz | Fig.60 | 17.35 | P |
| | 5200 MHz | Fig.61 | 17.34 | P |
| | 5240 MHz | Fig.62 | 17.32 | P |
| 802.11n HT20 | 5180 MHz | Fig.63 | 18.29 | P |
| | 5200 MHz | Fig.64 | 18.15 | P |
| | 5240 MHz | Fig.65 | 18.19 | P |
| 802.11n HT40 | 5190 MHz | Fig.66 | 36.15 | P |
| | 5230 MHz | Fig.67 | 36.23 | P |
| 802.11ac HT80 | 5210 MHz | Fig.68 | 75.22 | P |

Conclusion: PASS
Test graphs as below:



Fig.60 99% Occupied bandwidth (802.11a, 5180MHz)

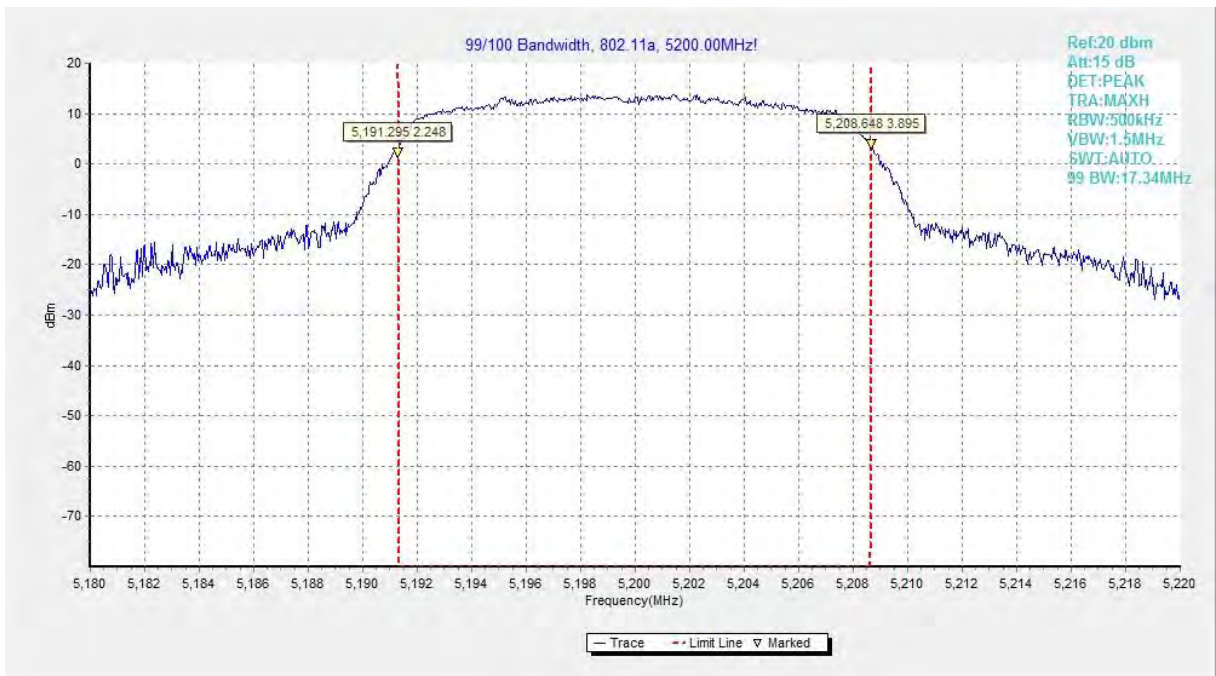


Fig.61 99% Occupied bandwidth (802.11a, 5200MHz)



Fig.62 99% Occupied bandwidth (802.11a, 5240MHz)



Fig.63 99% Occupied bandwidth (802.11n-HT20, 5180MHz)



Fig.64 99% Occupied bandwidth (802.11n-HT20, 5200MHz)

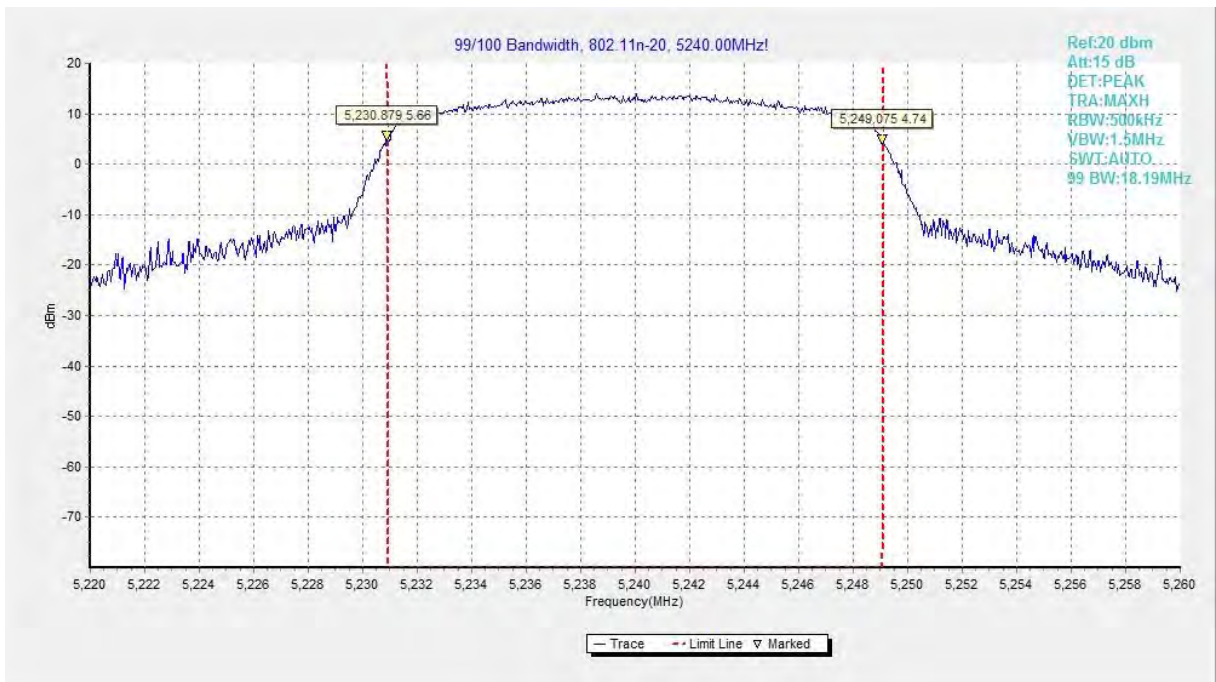


Fig.65 99% Occupied bandwidth (802.11n-HT20, 5240MHz)

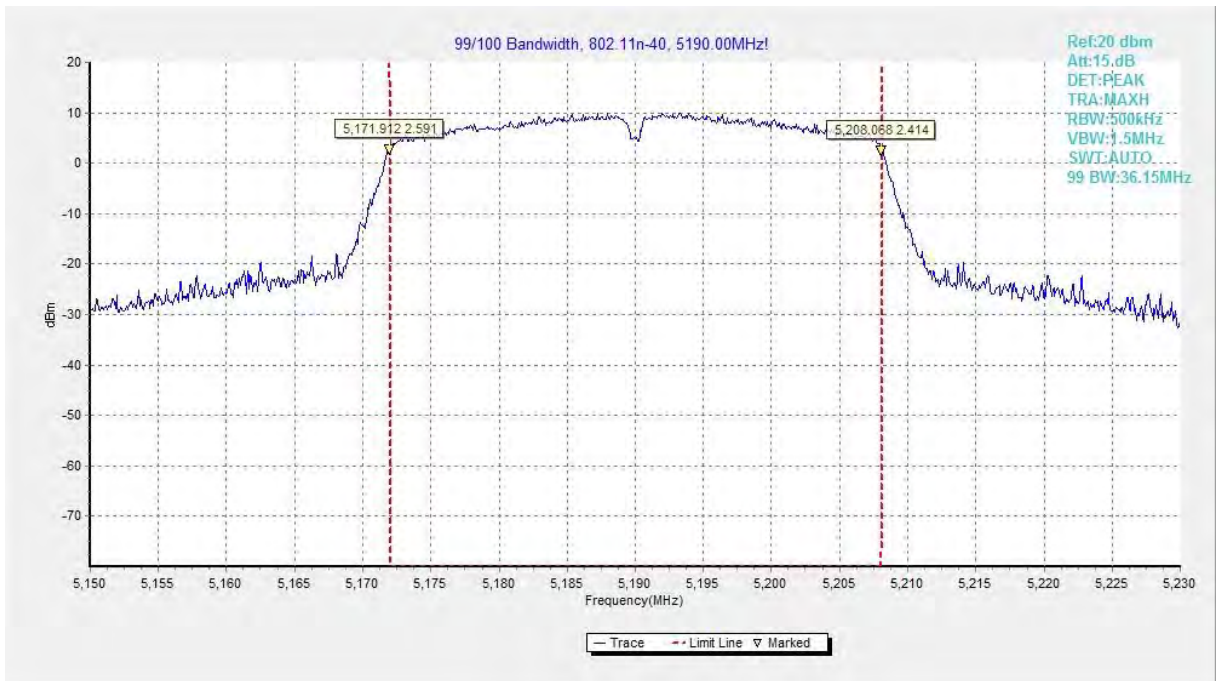


Fig.66 99% Occupied bandwidth (802.11n-HT40, 5190MHz)

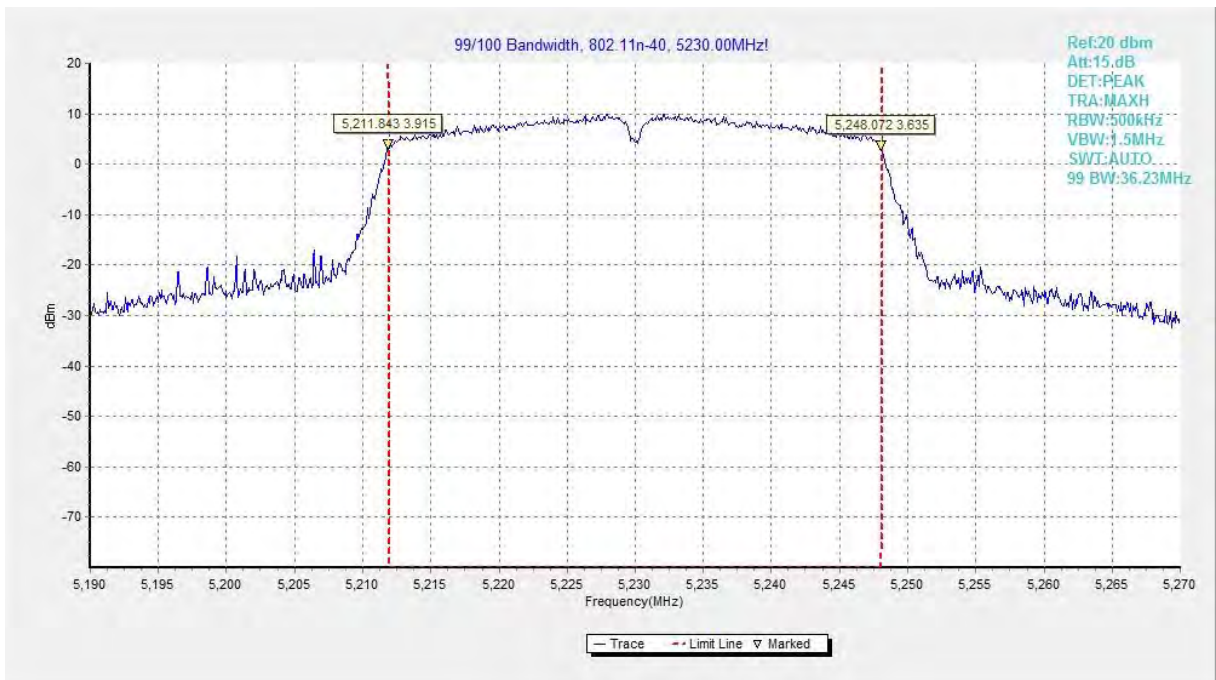


Fig.67 99% Occupied bandwidth (802.11n-HT40, 5230MHz)

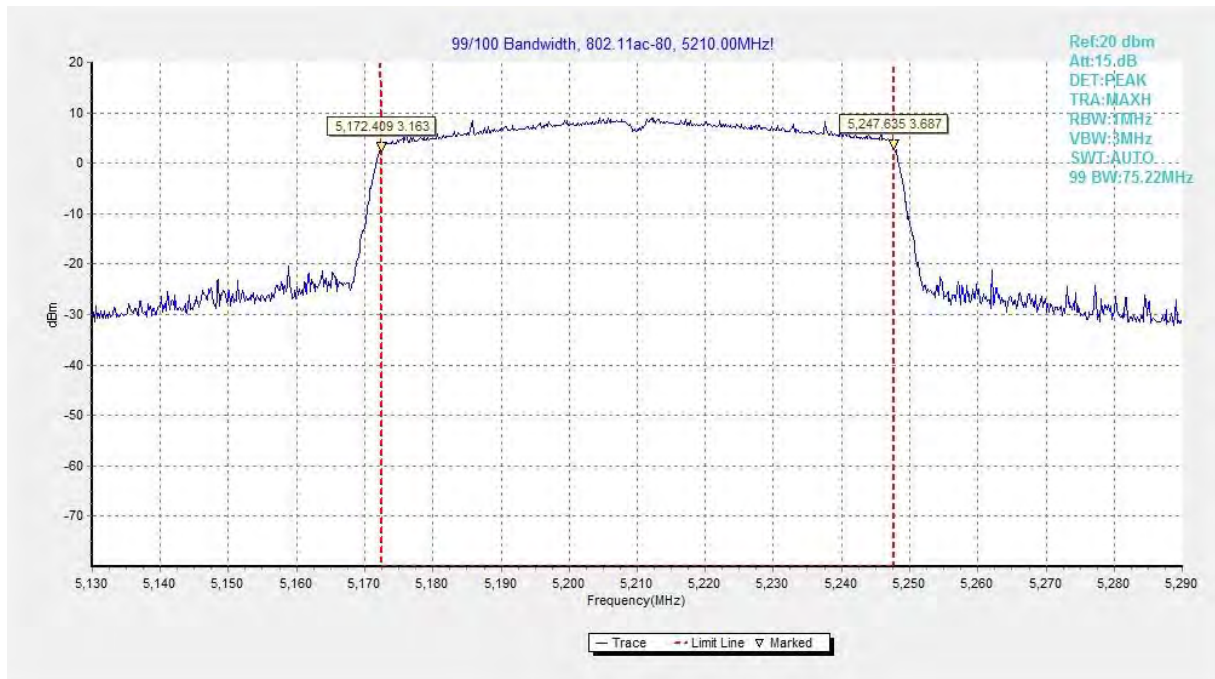


Fig.68 99% Occupied bandwidth (802.11ac-HT80, 5210MHz)

A.9. Power control

A Transmission Power Control mechanism is not required for systems with an e.i.r.p. of less than 27dBm (500 mW).

ANNEX B: EUT parameters

Disclaimer: The worse case provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

ANNEX C: Accreditation Certificate



*** END OF REPORT BODY ***