



## TEST REPORT

**Application No.:** GZCR2108020806AT  
**Applicant:** DT Research, Inc.  
**Address of Applicant:** 3RD FL NO 36 WUQUAN 7TH RD WUGU DISTRICT, NEW TAIPEI, Taiwan  
**Manufacturer:** DT Research, Inc.  
**Address of Manufacturer:** 2000 Concourse Drive, San Jose, CA 95131, USA  
**Factory:** DT Research, Inc. Taiwan Branch  
**Address of Factory:** 6F., No.36 Wuquan 7 th Rd., Wugu Dist. New Taipei City 248 Taiwan  
**Equipment Under Test (EUT):**  
**EUT Name:** Rugged Tablet  
**Model No.:** DT382GL, DT382xxxx(x= 0-9, A-Z, - or null)   
Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

**Trade Mark:**



**Standard(s) :** 47 CFR Part 15, Subpart E 15.407  
**Date of Receipt:** 2021-08-05  
**Date of Test:** 2021-08-05 to 2021-08-23  
**Date of Issue:** 2021-08-27

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

\* In the configuration tested, the EUT complied with the standards specified above.

*Kobe Jian*

Kobe Jian  
EMC Laboratory Manager



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)  
SGS-CSTC Standards Technical Services Co., Ltd. (No. 198 Kechu Road, Soletch Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075068 www.ssgsgroup.com.cn  
Guangzhou Branch (EMC Laboratory) 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075068 sgs.china@sgs.com

| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2021-08-27 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                         |  |                                                                                     |  |  |
|-------------------------|--|-------------------------------------------------------------------------------------|--|--|
| Authorized for issue by |  |                                                                                     |  |  |
|                         |  |  |  |  |
|                         |  | Lily Kuang/Project Engineer                                                         |  |  |
|                         |  |  |  |  |
|                         |  | Ricky Liu/Reviewer                                                                  |  |  |

## 2 Test Summary

| Radio Spectrum Technical Requirement |                                  |        |                                      |        |
|--------------------------------------|----------------------------------|--------|--------------------------------------|--------|
| Item                                 | Standard                         | Method | Requirement                          | Result |
| Antenna Requirement                  | 47 CFR Part 15, Subpart E 15.407 | N/A    | 47 CFR Part 15, Subpart C 15.203     | Pass   |
| Transmission in the Absence of Data  |                                  | N/A    | 47 CFR Part 15, Subpart C 15.407 (c) | Pass   |

| Radio Spectrum Matter Part                            |                                  |                                |                                                |        |
|-------------------------------------------------------|----------------------------------|--------------------------------|------------------------------------------------|--------|
| Item                                                  | Standard                         | Method                         | Requirement                                    | Result |
| Conducted Emissions at AC Power Line (150kHz-30MHz)   | 47 CFR Part 15, Subpart E 15.407 | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207 & 15.407 b(6) | Pass   |
| Radiated Emissions (below 1GHz)                       |                                  | KDB 789033 D02 II G            | 47 CFR Part 15, Subpart C 15.209 & 15.407(b)   | Pass   |
| Radiated Emissions (above 1GHz)                       |                                  | KDB 789033 D02 II G            | 47 CFR Part 15, Subpart C 15.209 & 15.407(b)   | Pass   |
| Radiated Emissions which fall in the restricted bands |                                  | KDB 789033 D02 II G            | 47 CFR Part 15, Subpart C 15.209 & 15.407(b)   | Pass   |
| Non-occupancy period                                  |                                  | KDB 905462 D02 Section 7.8.3   | KDB 905462 D02 Section 5.1                     | Pass   |
| Channel Move Time                                     |                                  | KDB 905462 D02 Section 7.8.3   | KDB 905462 D02 Section 5.1                     | Pass   |
| Channel Closing Transmission Time                     |                                  | KDB 905462 D02 Section 7.8.3   | KDB 905462 D02 Section 5.1                     | Pass   |

**Note:**

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

**Remark:**

Model No.: DT382GL, DT382xxxx(x= 0-9, A-Z, - or null)

Only the model DT382GL was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on model no.

This report is prepared for FCC class II permissive change.

The modular approval by TCB, FCC ID:YE3600D, Granted on 08/04/2017.

The module installed into host platform mentioned above is electronically and mechanically identical to the original certified module. The Original FCC testing on module under FCC ID:YE3600D was performed with an antenna of higher gain, and the antenna was connected to the module in an open environment. The current host platform under application uses a new antenna of the different type, Lower gain and is installed inside the host platform enclosure.

Therefore in this report Conducted Emissions at AC Power Line (150kHz-30MHz), Radiated Emissions which fall in the restricted bands and Radiated Spurious Emissions were fully retested on model DT382GL and shown the data in this report.

### 3 Contents

|                                                                 | Page      |
|-----------------------------------------------------------------|-----------|
| <b>1 Cover Page .....</b>                                       | <b>1</b>  |
| <b>2 Test Summary.....</b>                                      | <b>3</b>  |
| <b>3 Contents .....</b>                                         | <b>5</b>  |
| <b>4 General Information.....</b>                               | <b>7</b>  |
| 4.1 Details of E.U.T. ....                                      | 7         |
| 4.2 Description of Support Units.....                           | 10        |
| 4.3 Measurement Uncertainty .....                               | 10        |
| 4.4 Test Location .....                                         | 10        |
| 4.5 Test Facility.....                                          | 11        |
| 4.6 Deviation from Standards.....                               | 11        |
| 4.7 Abnormalities from Standard Conditions.....                 | 11        |
| <b>5 Equipment List .....</b>                                   | <b>12</b> |
| <b>6 Radio Spectrum Technical Requirement.....</b>              | <b>15</b> |
| 6.1 Antenna Requirement .....                                   | 15        |
| 6.1.1 Test Requirement: .....                                   | 15        |
| 6.1.2 Conclusion .....                                          | 15        |
| 6.2 Transmission in the Absence of Data .....                   | 16        |
| 6.2.1 Test Requirement: .....                                   | 16        |
| 6.2.2 Conclusion .....                                          | 16        |
| <b>7 Radio Spectrum Matter Test Results .....</b>               | <b>17</b> |
| 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz) .....   | 17        |
| 7.1.1 E.U.T. Operation .....                                    | 17        |
| 7.1.2 Test Mode Description .....                               | 17        |
| 7.1.3 Test Setup Diagram .....                                  | 18        |
| 7.1.4 Measurement Procedure and Data.....                       | 18        |
| 7.2 Radiated Emissions (below 1GHz) .....                       | 21        |
| 7.2.1 E.U.T. Operation.....                                     | 21        |
| 7.2.2 Test Mode Description .....                               | 22        |
| 7.2.3 Test Setup Diagram .....                                  | 23        |
| 7.2.4 Measurement Procedure and Data.....                       | 24        |
| 7.3 Radiated Emissions (above 1GHz).....                        | 27        |
| 7.3.1 E.U.T. Operation.....                                     | 27        |
| 7.3.2 Test Mode Description .....                               | 28        |
| 7.3.3 Test Setup Diagram .....                                  | 29        |
| 7.3.4 Measurement Procedure and Data.....                       | 30        |
| 7.4 Radiated Emissions which fall in the restricted bands ..... | 149       |
| 7.4.1 E.U.T. Operation.....                                     | 149       |
| 7.4.2 Test Mode Description .....                               | 150       |
| 7.4.3 Test Setup Diagram .....                                  | 151       |
| 7.4.4 Measurement Procedure and Data.....                       | 152       |
| 7.5 Non-occupancy period .....                                  | 243       |
| 7.5.1 E.U.T. Operation.....                                     | 243       |



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Qoscheck@sgs.com](mailto:CN.Qoscheck@sgs.com)  
No. 198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075068 [www.sgs.com.cn](http://www.sgs.com.cn)  
Guangzhou Branch of SGS-CSTC Standards Technical Services Co., Ltd. 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075068 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

|       |                                              |     |
|-------|----------------------------------------------|-----|
| 7.5.2 | Test Mode Description .....                  | 243 |
| 7.5.3 | Test Setup Diagram .....                     | 244 |
| 7.5.4 | Measurement Procedure and Data.....          | 245 |
| 7.6   | Channel Move Time .....                      | 246 |
| 7.6.1 | E.U.T. Operation .....                       | 246 |
| 7.6.2 | Test Mode Description .....                  | 246 |
| 7.6.3 | Test Setup Diagram .....                     | 247 |
| 7.6.4 | Measurement Procedure and Data.....          | 248 |
| 7.7   | Channel Closing Transmission Time .....      | 249 |
| 7.7.1 | E.U.T. Operation .....                       | 249 |
| 7.7.2 | Test Mode Description .....                  | 249 |
| 7.7.3 | Test Setup Diagram .....                     | 250 |
| 7.7.4 | Measurement Procedure and Data.....          | 251 |
| 8     | Test Setup Photo .....                       | 252 |
| 9     | EUT Constructional Details (EUT Photos)..... | 255 |
| 10    | Appendix.....                                | 256 |



## 4 General Information

### 4.1 Details of E.U.T.

Power supply: AC Adapter  
Model: A17-065N1A  
Input: AC 100-240V, 50/60Hz, 1.8A  
Output: DC 20V, 3.25A/DC15V, 3A/DC9V, 2A/DC5V, 2A  
Rechargeable lithium-Ion Polymer Battery  
Model: ACC-006-60K(3ICP9/36/115)  
Rated Capacity:5400mAh  
Voltage: 11.4VDC  
Watt-Hour: 61.56Wh  
Max Charge Voltage:13.05V

Test voltage: AC 120V, 60Hz or AC 230V, 50Hz  
Note: Both nominal AC 120V, 60Hz and AC 240 V, 50Hz are required for testing in accordance with FCC KDB174176, this report only shows the results of the worst test result(AC 120V, 60Hz);

Cable(s): AC cable:172cm unshielded  
DC cable:175cm unshielded

Internal Source: More than 108MHz

Operation  
Frequency:

| Band           | Mode                  | Frequency Range(MHz) | Number of channels |
|----------------|-----------------------|----------------------|--------------------|
| UNII Band I    | IEEE 802.11a/n (HT20) | 5180-5240            | 4                  |
|                | IEEE 802.11n (HT40)   | 5190-5230            | 2                  |
|                | IEEE 802.11ac (HT80)  | 5210                 | 1                  |
| UNII Band II-A | IEEE 802.11a/n (HT20) | 5260-5320            | 4                  |
|                | IEEE 802.11n (HT40)   | 5270-5310            | 2                  |
|                | IEEE 802.11ac (HT80)  | 5290                 | 1                  |
| UNII Band II-C | IEEE 802.11a/n (HT20) | 5500-5720            | 12                 |
|                | IEEE 802.11n (HT40)   | 5510-5710            | 6                  |
|                | IEEE 802.11ac (HT80)  | 5530-5690            | 3                  |
| UNII Band III  | IEEE 802.11a/n (HT20) | 5745-5825            | 5                  |
|                | IEEE 802.11n (HT40)   | 5755-5795            | 2                  |
|                | IEEE 802.11ac (HT80)  | 5775                 | 1                  |

Modulation Type: IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM)  
IEEE 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)  
IEEE 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)

DFS Function: Slave without radar detection

TPC Function: Not support

Antenna Type: PIFA Antenna

Antenna Gain: Antenna1: 1.4dBi, Antenna2: 2.4dBi

Note: MIMO for 802.11n/ac.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Qcccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch - EMC Laboratory

No. 198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075068 www.sgs.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075068 sgs.china@sgs.com

**Channel list for 802.11a/n(HT20)/ac(HT20)**

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 36      | 5180MHz   | 60      | 5300MHz   | 116     | 5580MHz   | 140     | 5700MHz   |
| 40      | 5200MHz   | 64      | 5320MHz   | 120     | 5600MHz   | 149     | 5745MHz   |
| 44      | 5220MHz   | 100     | 5500MHz   | 124     | 5620MHz   | 153     | 5765MHz   |
| 48      | 5240MHz   | 104     | 5520MHz   | 128     | 5640MHz   | 157     | 5785MHz   |
| 52      | 5260MHz   | 108     | 5540MHz   | 132     | 5660MHz   | 161     | 5805MHz   |
| 56      | 5280MHz   | 112     | 5560MHz   | 136     | 5680MHz   | 165     | 5825MHz   |

**Channel list for 802.11n(HT40)/ac(HT40)**

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 38      | 5190MHz   | 62      | 5310MHz   | 118     | 5590MHz   | 151     | 5755MHz   |
| 46      | 5230MHz   | 102     | 5510MHz   | 126     | 5630MHz   | 159     | 5795MHz   |
| 54      | 5270MHz   | 110     | 5550MHz   | 134     | 5670MHz   |         |           |

**Channel list for 802.11ac(HT80)**

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 42      | 5210MHz   | 106     | 5530MHz   | 122     | 5610MHz   | 155     | 5775MHz   |
| 58      | 5290MHz   |         |           |         |           |         |           |

**Selected Test Channel for 802.11a/n(HT20)/ac(HT20)**

| Band            | Channel                     | Frequency |
|-----------------|-----------------------------|-----------|
| U-NII Band I    | The lowest channel (CH36)   | 5180MHz   |
|                 | The middle channel (CH40)   | 5200MHz   |
|                 | The highest channel (CH48)  | 5240MHz   |
| U-NII Band II-A | The lowest channel (CH52)   | 5260MHz   |
|                 | The middle channel (CH60)   | 5300MHz   |
|                 | The highest channel (CH64)  | 5320MHz   |
| U-NII Band II-C | The lowest channel (CH100)  | 5500MHz   |
|                 | The highest channel (CH140) | 5700MHz   |
| U-NII Band III  | The lowest channel (CH149)  | 5745MHz   |
|                 | The middle channel (CH157)  | 5785MHz   |
|                 | The highest channel (CH165) | 5825MHz   |



| Selected Test Channel for 802.11n(HT40)/ac(HT40) |                             |           |
|--------------------------------------------------|-----------------------------|-----------|
| Band                                             | Channel                     | Frequency |
| U-NII Band I                                     | The lowest channel (CH38)   | 5190MHz   |
|                                                  | The highest channel (CH46)  | 5230MHz   |
| U-NII Band II-A                                  | The lowest channel (CH54)   | 5270MHz   |
|                                                  | The highest channel (CH62)  | 5310MHz   |
| U-NII Band II-C                                  | The lowest channel (CH102)  | 5510MHz   |
|                                                  | The middle channel (CH118)  | 5590MHz   |
|                                                  | The highest channel (CH134) | 5670MHz   |
| U-NII Band III                                   | The lowest channel (CH151)  | 5755MHz   |
|                                                  | The highest channel (CH159) | 5795MHz   |

| Selected Test Channel for 802.11ac(HT80) |                            |           |
|------------------------------------------|----------------------------|-----------|
| Band                                     | Channel                    | Frequency |
| U-NII Band I                             | One channel (CH42)         | 5210MHz   |
| U-NII Band II-A                          | One channel (CH58)         | 5290MHz   |
| U-NII Band II-C                          | The lowest channel (CH106) | 5530MHz   |
| U-NII Band III                           | One channel (CH155)        | 5775MHz   |

## 4.2 Description of Support Units

| Description     | Manufacturer | Model No.               | Serial No.       |
|-----------------|--------------|-------------------------|------------------|
| Mobile Phone    | SAMSUNG      | SM-G9810                | RFCN309Q9QF      |
| Note Book PC    | LENOVO       | Lenovo Xiaoxinchao 5000 | PF0TLJX7         |
| Wireless Router | Honor        | HiRouter-CD30           | AWTEQ20C04001295 |

## 4.3 Measurement Uncertainty

| Test Item                                                                                                                                                                                                                                                                                                                             | Measurement Uncertainty                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Conducted Emissions at AC Power Line (150kHz-30MHz)                                                                                                                                                                                                                                                                                   | 3.12dB                                                |
| Radiated Emissions (below 1GHz)                                                                                                                                                                                                                                                                                                       | 5.06dB (30MHz-1GHz ; 3m)<br>4.46dB (30MHz-1GHz ; 10m) |
| Radiated Emissions (above 1GHz)                                                                                                                                                                                                                                                                                                       | 5.08 dB (1-6GHz); 5.14 (above 6 GHz)                  |
| Radiated Emissions which fall in the restricted bands                                                                                                                                                                                                                                                                                 | ± 4.5dB (below 1GHz); ± 4.8dB (above 1GHz);           |
| Remark:<br>The U <sub>lab</sub> (lab Uncertainty) is less than U <sub>CISPR</sub> (CISPR Uncertainty), so the test results<br>– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;<br>– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. |                                                       |

## 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,  
Guangzhou, China 510663

Tel: +86 20 82155555

Fax: +86 20 82075059

No tests were sub-contracted.

## 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

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

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

## 4.6 Deviation from Standards

None

## 4.7 Abnormalities from Standard Conditions

None



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Qcccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch EMC Laboratory

No. 198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075068 www.sgs.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075068 sgs.china@sgs.com

## 5 Equipment List

| Conducted Emissions at AC Power Line (150kHz-30MHz) |                   |                |              |            |              |
|-----------------------------------------------------|-------------------|----------------|--------------|------------|--------------|
| Equipment                                           | Manufacturer      | Model No       | Inventory No | Cal Date   | Cal Due Date |
| Shielding Room                                      | ChangZhou ZhongYu | 8m x 3m x 3.8m | EMC0306      | N/A        | N/A          |
| Two-Line V-Network-GZ                               | Rohde & Schwarz   | ENV216         | EMC2135      | 2020-09-25 | 2021-09-24   |
| Coaxial Cable                                       | HangTianXing      | 2m             | EMC0107      | 2020-09-09 | 2022-09-08   |
| Test Software E3c                                   | Audix             | Ver. 5.4.1221b | GZE100-62    | N/A        | N/A          |
| EMI Test Receiver(9kHz-3.6GHz)                      | Rohde & Schwarz   | ESR4           | EMC2221      | 2021-06-01 | 2022-05-31   |

| Radiated Emissions which fall in the restricted bands |                                |               |              |            |              |
|-------------------------------------------------------|--------------------------------|---------------|--------------|------------|--------------|
| Equipment                                             | Manufacturer                   | Model No      | Inventory No | Cal Date   | Cal Due Date |
| EMI Test Receiver(20Hz-26.5GHz)                       | Rohde & Schwarz                | ESIB26        | EMC0522      | 2021-01-08 | 2022-01-07   |
| Chamber cable(Above 1GHz)                             | Scoflex                        | KMKM-8.0m     | EMC0545      | 2020-09-09 | 2022-09-08   |
| Horn Antenna(1GHz-18GHz)                              | SCHWARZBECK<br>MESS-ELEKTRONIK | BBHA 9120D    | EMC2026      | 2019-09-25 | 2022-09-24   |
| 1GHz-26.5 GHz Pre-Amplifier                           | Agilent                        | 8449B         | EMC0521      | 2021-01-08 | 2022-01-07   |
| 2.4GHz Filter                                         | Micro-Tronics                  | BRM 50702     | EMC2069      | 2021-01-08 | 2022-01-07   |
| 966 Anechoic Chamber                                  | C.R.T                          | 9m x 6m x 6m  | EMC2142      | 2020-12-20 | 2023-12-19   |
| MXE EMI Receiver(10Hz-8.4GHz)                         | Keysight                       | N9038A        | EMC2139      | 2020-11-13 | 2021-11-12   |
| EXA Signal Analyzer(10Hz-44GHz)                       | Keysight                       | N9010A        | EMC2138      | 2020-09-17 | 2021-09-16   |
| Test Software E3                                      | Audix                          | Ver.6.120110a | GZE100-61    | N/A        | N/A          |
| Notch Filter (5150-5880)                              | Mico-Tronics                   | BRM50716      | EMC2168      | 2021-07-29 | 2022-07-28   |
| Horn Antenna(14-40GHz)                                | SCHWARZBECK                    | BBHA 9170     | EMC2041      | 2020-06-28 | 2023-06-27   |
| Microwave Broadband Preamplifier (18-40GHz)           | SCHWARZBECK                    | BBV 9721      | EMC2172      | 2020-09-09 | 2021-09-08   |

| Radiated Spurious Emissions (Below 1GHz) |                                |               |              |            |              |
|------------------------------------------|--------------------------------|---------------|--------------|------------|--------------|
| Equipment                                | Manufacturer                   | Model No      | Inventory No | Cal Date   | Cal Due Date |
| Chamber cable                            | HangTianXing                   | N/A           | EMC0542      | 2020-09-09 | 2022-09-08   |
| Trilog Broadband Antenna(25MHz-1GHz)-Lab | SCHWARZBECK<br>MESS-ELEKTRONIK | VULB 9168     | SEM003-18    | 2019-02-22 | 2022-02-22   |
| Amplifier(9kHz-1.3GHz)                   | HP                             | 8447F         | EMC2065      | 2021-05-19 | 2022-05-18   |
| Active Loop Antenna-RED                  | ETS-Lindgren                   | 6502          | EMC2190      | 2019-12-27 | 2021-12-26   |
| 10m Semi-Anechoic Chamber                | ETS                            | N/A           | EMC0530      | 2019-10-20 | 2022-10-19   |
| Test Software E3                         | Audix                          | Ver.6.120110a | GZE100-61    | N/A        | N/A          |
| EMI Test Receiver(1Hz-8GHz)              | Rohde & Schwarz                | ESW8          | EMC2220      | 2021-05-26 | 2022-05-25   |

| Radiated Spurious Emissions (Above 1GHz) |                                |               |              |            |              |
|------------------------------------------|--------------------------------|---------------|--------------|------------|--------------|
| Equipment                                | Manufacturer                   | Model No      | Inventory No | Cal Date   | Cal Due Date |
| Chamber cable(Above 1GHz)                | Scoflex                        | KMKM-8.0m     | EMC0545      | 2020-9-9   | 2022-9-8     |
| Horn Antenna(1GHz-18GHz)                 | SCHWARZBECK<br>MESS-ELEKTRONIK | BBHA 9120D    | EMC2026      | 2019-09-25 | 2022-09-24   |
| 1GHz-26.5 GHz Pre-Amplifier              | Agilent                        | 8449B         | EMC0521      | 2021-01-08 | 2022-01-07   |
| High Pass Filter (915MHz)                | FSY MICROWAVE                  | HM1465-9SS    | EMC2079      | 2021-01-08 | 2022-01-07   |
| 2.4GHz Filter                            | Micro-Tronics                  | BRM 50702     | EMC2069      | 2021-01-08 | 2022-01-07   |
| 966 Anechoic Chamber                     | C.R.T                          | 9m x 6m x 6m  | EMC2142      | 2020-12-20 | 2023-12-19   |
| MXE EMI Receiver(10Hz-8.4GHz)            | Keysight                       | N9038A        | EMC2139      | 2020-11-13 | 2021-11-12   |
| EXA Signal Analyzer(10Hz-44GHz)          | Keysight                       | N9010A        | EMC2138      | 2020-09-17 | 2021-09-16   |
| Test Software E3                         | Audix                          | Ver.6.120110a | GZE100-61    | N/A        | N/A          |
| Notch Filter (5150-5880)                 | Mico-Tronics                   | BRM50716      | EMC2168      | 2021-07-29 | 2022-07-28   |
| Horn Antenna(14-40GHz)                   | SCHWARZBECK                    | BBHA 9170     | EMC2041      | 2020-06-28 | 2023-06-27   |



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

| DFS                                      |                             |              |              |            |              |
|------------------------------------------|-----------------------------|--------------|--------------|------------|--------------|
| Equipment                                | Manufacturer                | Model No     | Inventory No | Cal Date   | Cal Due Date |
| MXA Signal Analyzer(10Hz-8.4GHz)         | Agilent Technologies        | N9020A       | SEM004-10    | 2021-03-02 | 2022-03-01   |
| ESG Vector Signal Generator(250kHz-6GHz) | Keysight                    | E4438C       | SEM006-03    | 2021-03-12 | 2022-03-11   |
| EXG Analog Signal Generator(9kHz-3GHz)   | Agilent Technologies        | N5171B       | SEM006-04    | 2021-07-15 | 2022-07-14   |
| Power Meter (U2021XA_Ch2)                | Agilent Technologies        | U2021XA_Ch2  | SEM009-02    | 2021-05-19 | 2022-05-18   |
| Power Meter (U2021XA_Ch3)                | Agilent Technologies        | U2021XA_Ch3  | SEM009-03    | 2021-05-19 | 2022-05-18   |
| EXA Signal Analyzer(10Hz-44GHz)          | Agilent Technologies        | N9010A       | EMC2138      | 2020-09-17 | 2021-09-16   |
| 6dB Attenuator                           | HP                          | 8491A        | EMC2062      | 2020-04-15 | 2022-04-14   |
| Test Software JS1120-3                   | HangTianXing                | V2.6         | GZE100-69    | N/A        | N/A          |
| MI CABLE                                 | SGS-EMC                     | 0.8M         | EMC2136      | 2019-11-02 | 2021-11-01   |
| MI CABLE                                 | SGS-EMC                     | 0.8M         | EMC2137      | 2019-11-02 | 2021-11-01   |
| VARIABLE ATTENUATOR                      | TAMAGAWA ELECTRONICS CO.LTD | TRA-801      | EMC02077     | /          | /            |
| BENCHTOP ATTENUATOR                      | JFW INDUSTRIES INC.         | 50BR-068 SMA | EMC02076     | /          | /            |

| General used equipment |              |          |              |            |              |
|------------------------|--------------|----------|--------------|------------|--------------|
| Equipment              | Manufacturer | Model No | Inventory No | Cal Date   | Cal Due Date |
| DMM                    | Fluke        | 73       | EMC0006      | 2021-07-05 | 2022-07-05   |
| DMM                    | Fluke        | 73       | EMC0007      | 2021-07-05 | 2022-07-05   |

## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### 6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the Antenna1 is 1.4dBi, Antenna2 is 2.4dBi.

Antenna location: Refer to internal photo.

EUT support 2x2 MIMO for 802.11n, any transmit signals are correlated with each other, as unequal antenna gains for antenna 1 and antenna 2 but with equal transmit power, therefore,

$$\text{Directional gain} = G_{\text{ANT}} + 10 \log (N_{\text{ANT}}) \text{ dBi}$$

$$\text{Directional gain} = 2.4 + 10 \log (2) \text{ dBi} = 5.41 \text{ dBi}$$

## 6.2 Transmission in the Absence of Data

### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

### 6.2.2 Conclusion

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip (8265NGW) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.

## 7 Radio Spectrum Matter Test Results

### 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

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

\*Decreases with the logarithm of the frequency.

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C Humidity: 48.7 % RH Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test               | 13           | Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. |
| Pre-scan                 | 15           | Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. |
| Pre-scan                 | 17           | Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. |



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

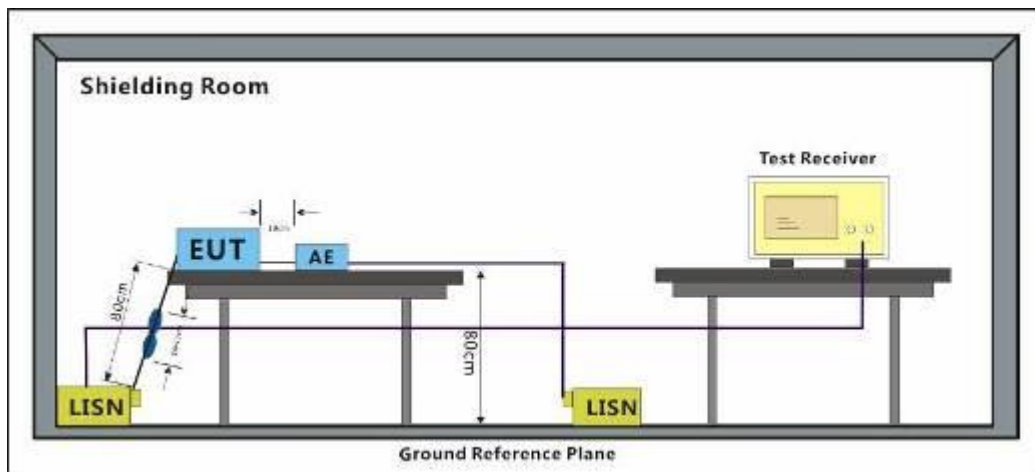
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Qcscheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd. No. 198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgs.com.cn  
Guangzhou Branch: 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Pre-scan 19

Charge + TX mode (U-NII-3)\_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

### 7.1.3 Test Setup Diagram

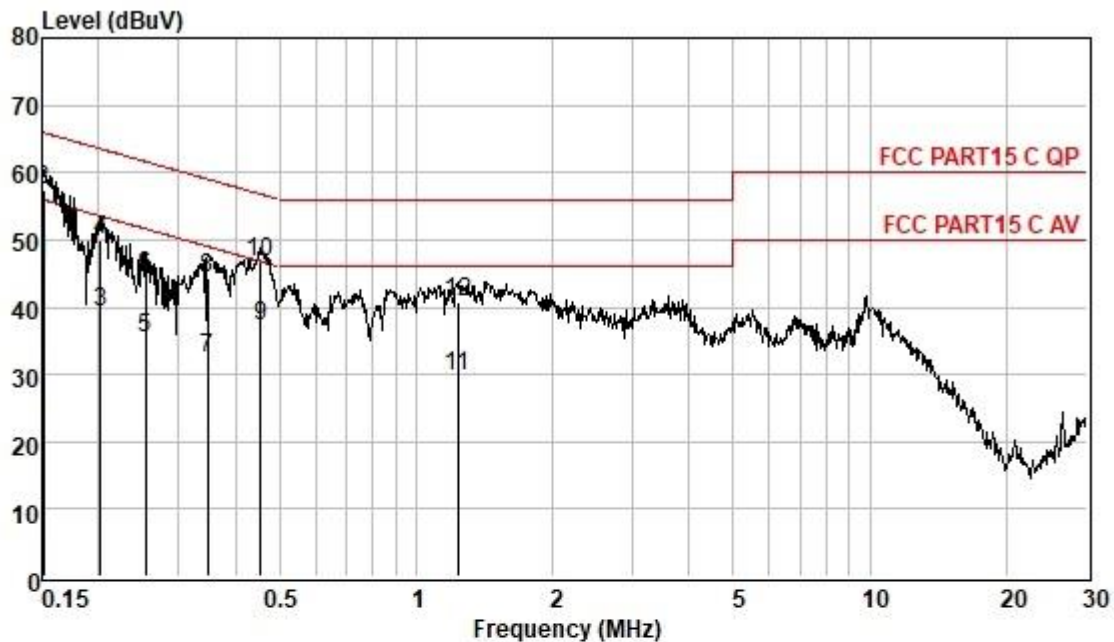


### 7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor

Test Mode: 13; Line: Live line



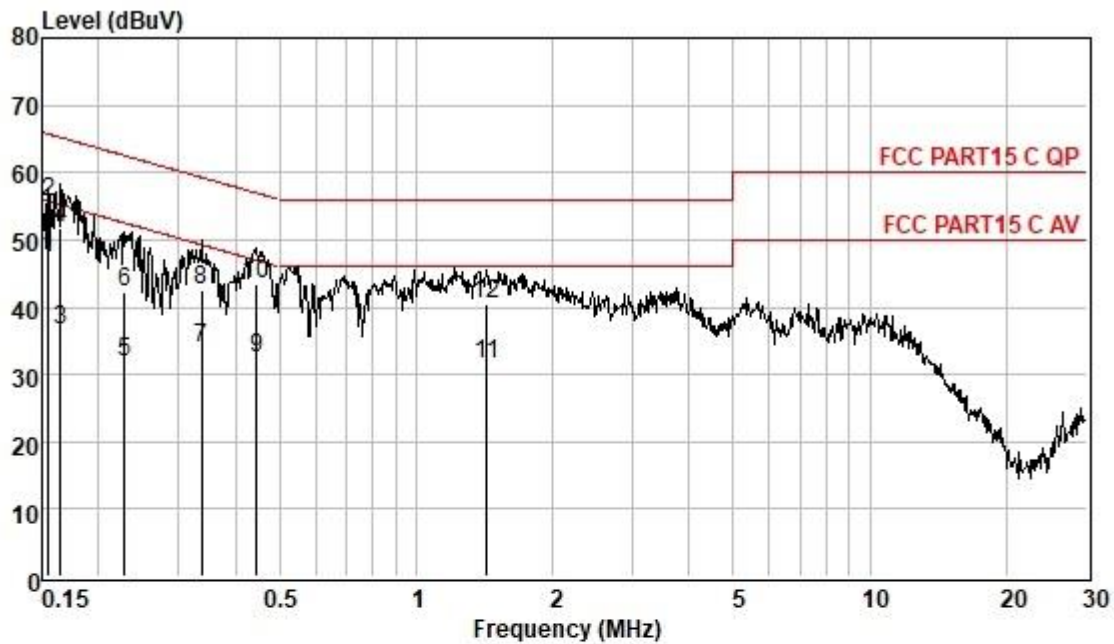
Pol : LINE

Mode :

Model :

| Frequency<br>MHz | Read<br>Level<br>dBuV | Cable<br>Loss<br>dB | LISN<br>Factor<br>dB | Measured<br>Level<br>dBuV | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Remark  |
|------------------|-----------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|---------|
| 0.15             | 36.71                 | 0.06                | 9.62                 | 46.39                     | 55.96                 | -9.57               | Average |
| 0.15             | 47.59                 | 0.06                | 9.62                 | 57.27                     | 65.96                 | -8.69               | QP      |
| 0.20             | 29.58                 | 0.06                | 9.63                 | 39.27                     | 53.54                 | -14.27              | Average |
| 0.20             | 40.33                 | 0.06                | 9.63                 | 50.02                     | 63.54                 | -13.52              | QP      |
| 0.25             | 25.84                 | 0.06                | 9.62                 | 35.52                     | 51.64                 | -16.12              | Average |
| 0.25             | 34.93                 | 0.06                | 9.62                 | 44.61                     | 61.64                 | -17.03              | QP      |
| 0.35             | 22.82                 | 0.06                | 9.63                 | 32.51                     | 49.00                 | -16.49              | Average |
| 0.35             | 34.76                 | 0.06                | 9.63                 | 44.45                     | 59.00                 | -14.55              | QP      |
| 0.45             | 27.63                 | 0.06                | 9.63                 | 37.32                     | 46.80                 | -9.48               | Average |
| 0.45             | 36.89                 | 0.06                | 9.63                 | 46.58                     | 56.80                 | -10.22              | QP      |
| 1.24             | 19.99                 | 0.09                | 9.61                 | 29.69                     | 46.00                 | -16.31              | Average |
| 1.24             | 30.90                 | 0.09                | 9.61                 | 40.60                     | 56.00                 | -15.40              | QP      |

Test Mode: 13; Line: Neutral Line



Pol : NEUTRAL

Mode :

Model :

| Frequency<br>MHz | Read<br>Level<br>dBuV | Cable<br>Loss<br>dB | LISN<br>Factor<br>dB | Measured<br>Level<br>dBuV | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Remark  |
|------------------|-----------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|---------|
| 0.15             | 37.54                 | 0.06                | 9.55                 | 47.15                     | 55.74                 | -8.59               | Average |
| 0.15             | 46.01                 | 0.06                | 9.55                 | 55.62                     | 65.74                 | -10.12              | QP      |
| 0.17             | 27.10                 | 0.06                | 9.55                 | 36.71                     | 55.21                 | -18.50              | Average |
| 0.17             | 42.16                 | 0.06                | 9.55                 | 51.77                     | 65.21                 | -13.44              | QP      |
| 0.23             | 22.18                 | 0.06                | 9.55                 | 31.79                     | 52.52                 | -20.73              | Average |
| 0.23             | 32.53                 | 0.06                | 9.55                 | 42.14                     | 62.52                 | -20.38              | QP      |
| 0.34             | 24.41                 | 0.06                | 9.54                 | 34.01                     | 49.27                 | -15.26              | Average |
| 0.34             | 33.01                 | 0.06                | 9.54                 | 42.61                     | 59.27                 | -16.66              | QP      |
| 0.44             | 22.79                 | 0.06                | 9.56                 | 32.41                     | 46.98                 | -14.57              | Average |
| 0.44             | 33.80                 | 0.06                | 9.56                 | 43.42                     | 56.98                 | -13.56              | QP      |
| 1.43             | 21.76                 | 0.10                | 9.55                 | 31.41                     | 46.00                 | -14.59              | Average |
| 1.43             | 30.83                 | 0.10                | 9.55                 | 40.48                     | 56.00                 | -15.52              | QP      |

**7.2 Radiated Emissions (below 1GHz)**

Test Requirement 47 CFR Part 15, Subpart C 15.209 &amp; 15.407(b)

Test Method: KDB 789033 D02 II G

Limit:

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

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

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

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

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

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

**7.2.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.8 °C Humidity: 54.6 % RH Atmospheric Pressure: 1010 mbar



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

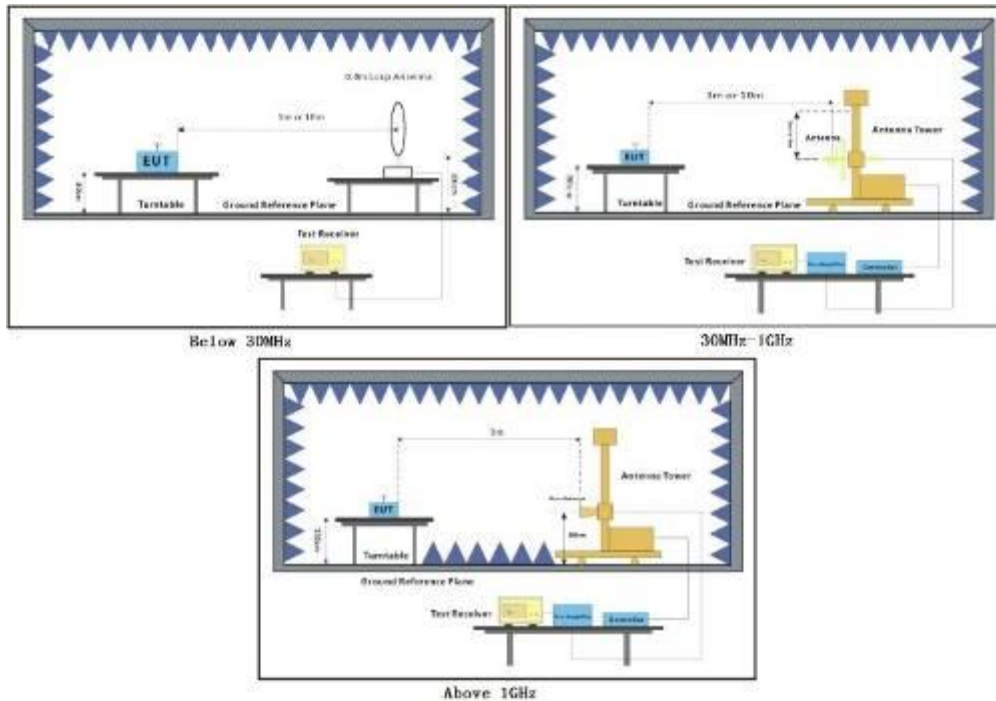
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com  
 No. 198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075068 www.sgs.com.cn  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075068 sgs.china@sgs.com

## 7.2.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-scan                 | 12           | <p>TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.</p>                        |
| Final test               | 13           | <p>Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.</p>  |
| Pre-scan                 | 14           | <p>TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.</p>                       |
| Pre-scan                 | 15           | <p>Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.</p> |
| Pre-scan                 | 16           | <p>TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.</p>                       |
| Pre-scan                 | 17           | <p>Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.</p> |

- 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
- TX mode (U-NII-3)\_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
- Charge + TX mode (U-NII-3)\_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

### 7.2.3 Test Setup Diagram



#### 7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

##### Remark1:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11ac. Only the worst case is recorded in the report.
3. Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

##### Remark2:

1. The disturbance below 30MHz and above 18GHz was very low, and the below harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
2. Pretest the EUT at antenna 1 and antenna 2 and MIMO mode find the worst case is MIMO mode.
3. Pretest the EUT in 802.11a/ n(20)/ n(40)/ ac (20)/ ac (40)/ ac(80) find the worst case are 802.11a /n(40)/ ac(80), only record the worst case test data 802.11a in this report.
4. For the emission 30MHz to 1Ghz, lowest, middle, highest channel test performed at band U-NII-1, U-NII-2A, U-NII-2C, U-NII-3, find the worst case is band U-NII-1 802.11a mode lowest channel, only record the worst case.



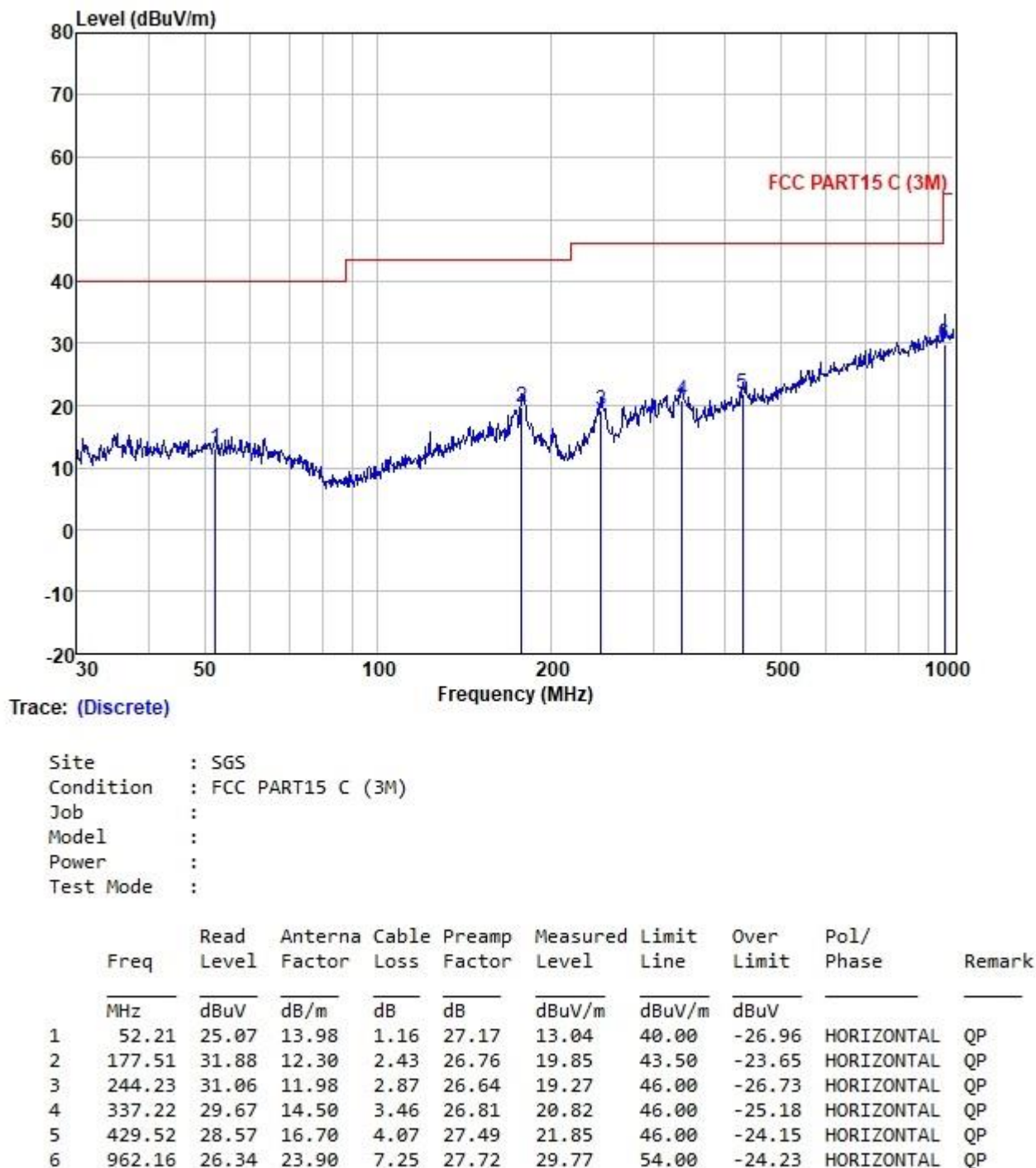
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Qcccheck@sgs.com](mailto:CN.Qcccheck@sgs.com)

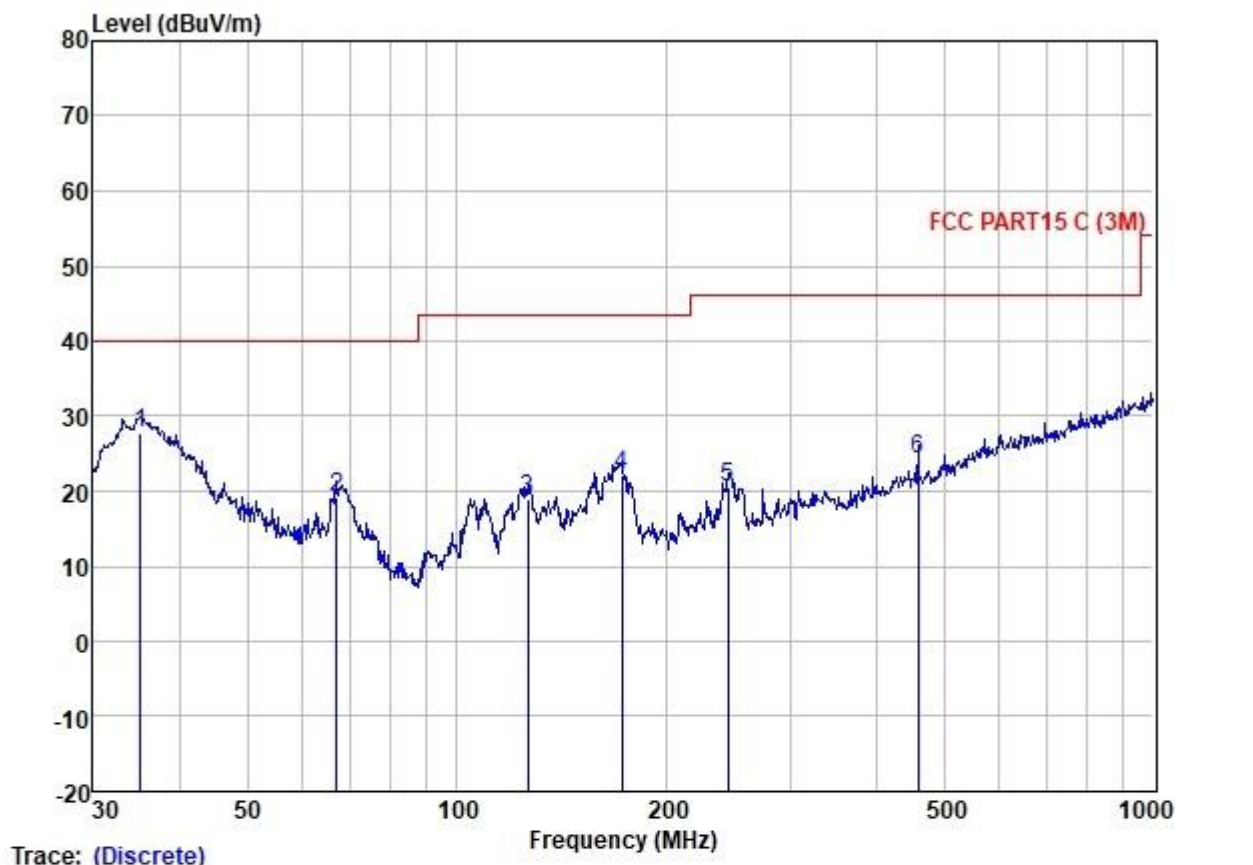
SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch

No. 198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Test Mode: 13; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Test Mode: 13; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : SGS  
Condition : FCC PART15 C (3M)  
Job :  
Model :  
Power :  
Test Mode :

|   | Freq   | Read Level | Antenna Factor | Cable Loss | Preamplifier Factor | Measured Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|--------|------------|----------------|------------|---------------------|----------------|------------|------------|-----------|--------|
|   | MHz    | dBuV       | dB/m           | dB         | dB                  | dBuV/m         | dBuV/m     | dBuV       |           |        |
| 1 | 35.13  | 40.96      | 12.92          | 1.07       | 27.18               | 27.77          | 40.00      | -12.23     | VERTICAL  | QP     |
| 2 | 67.20  | 32.67      | 12.34          | 1.38       | 27.14               | 19.25          | 40.00      | -20.75     | VERTICAL  | QP     |
| 3 | 126.33 | 32.45      | 11.63          | 1.93       | 27.01               | 19.00          | 43.50      | -24.50     | VERTICAL  | QP     |
| 4 | 172.60 | 33.49      | 12.90          | 2.41       | 26.77               | 22.03          | 43.50      | -21.47     | VERTICAL  | QP     |
| 5 | 245.09 | 32.24      | 12.00          | 2.87       | 26.64               | 20.47          | 46.00      | -25.53     | VERTICAL  | QP     |
| 6 | 459.11 | 30.28      | 17.48          | 4.25       | 27.78               | 24.23          | 46.00      | -21.77     | VERTICAL  | QP     |



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch

No. 198 Kechu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663  
中国·广州·经济技术开发区科学城科珠路198号

**7.3 Radiated Emissions (above 1GHz)**

Test Requirement 47 CFR Part 15, Subpart C 15.209 &amp; 15.407(b)

Test Method: KDB 789033 D02 II G

Limit:

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

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

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

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

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

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

**7.3.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1010 mbar



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch

No. 198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075068 www.sgs.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075068 sgs.china@sgs.com

## 7.3.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-scan                 | 12           | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.                        |
| Final test               | 13           | Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.  |
| Pre-scan                 | 14           | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.                       |
| Final test               | 15           | Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. |
| Pre-scan                 | 16           | TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.                       |
| Final test               | 17           | Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. |

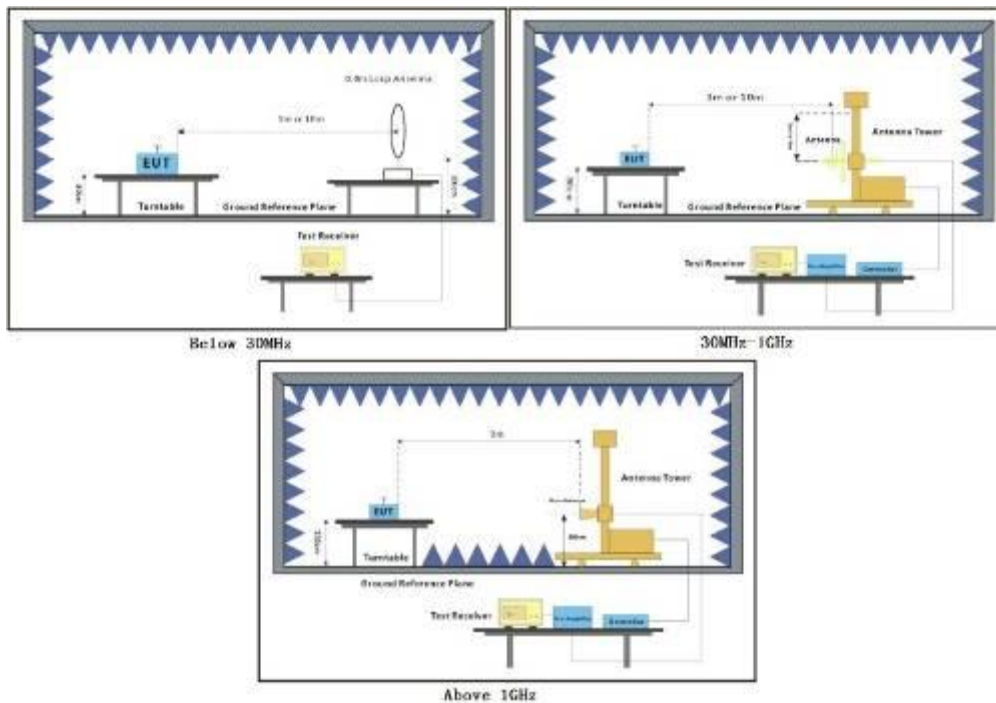


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions-for-Electronic-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Qcscheck@sgs.com](mailto:CN.Qcscheck@sgs.com)

|            |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |    | 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Pre-scan   | 18 | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.                       |
| Final test | 19 | Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types.All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. |

### 7.3.3 Test Setup Diagram



### 7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

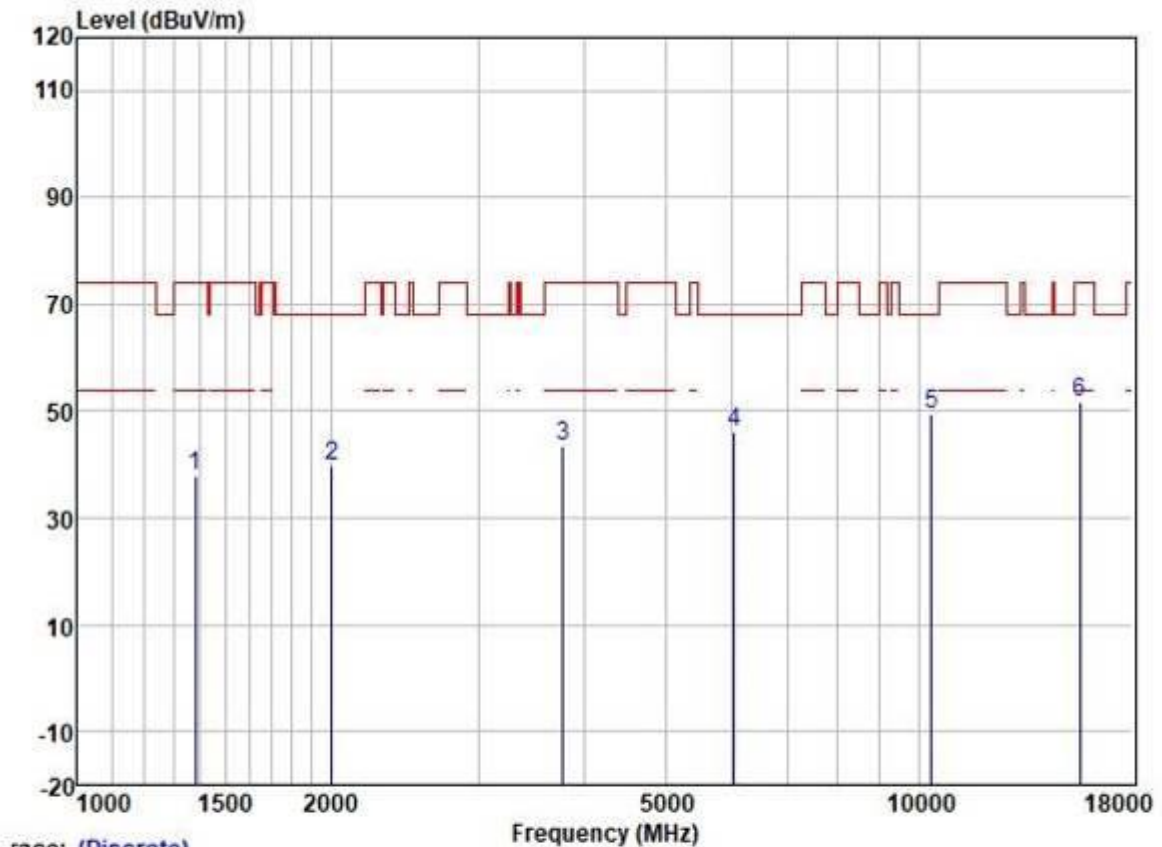
#### Remark1:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11ac. Only the worst case is recorded in the report.
3. Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

#### Remark2:

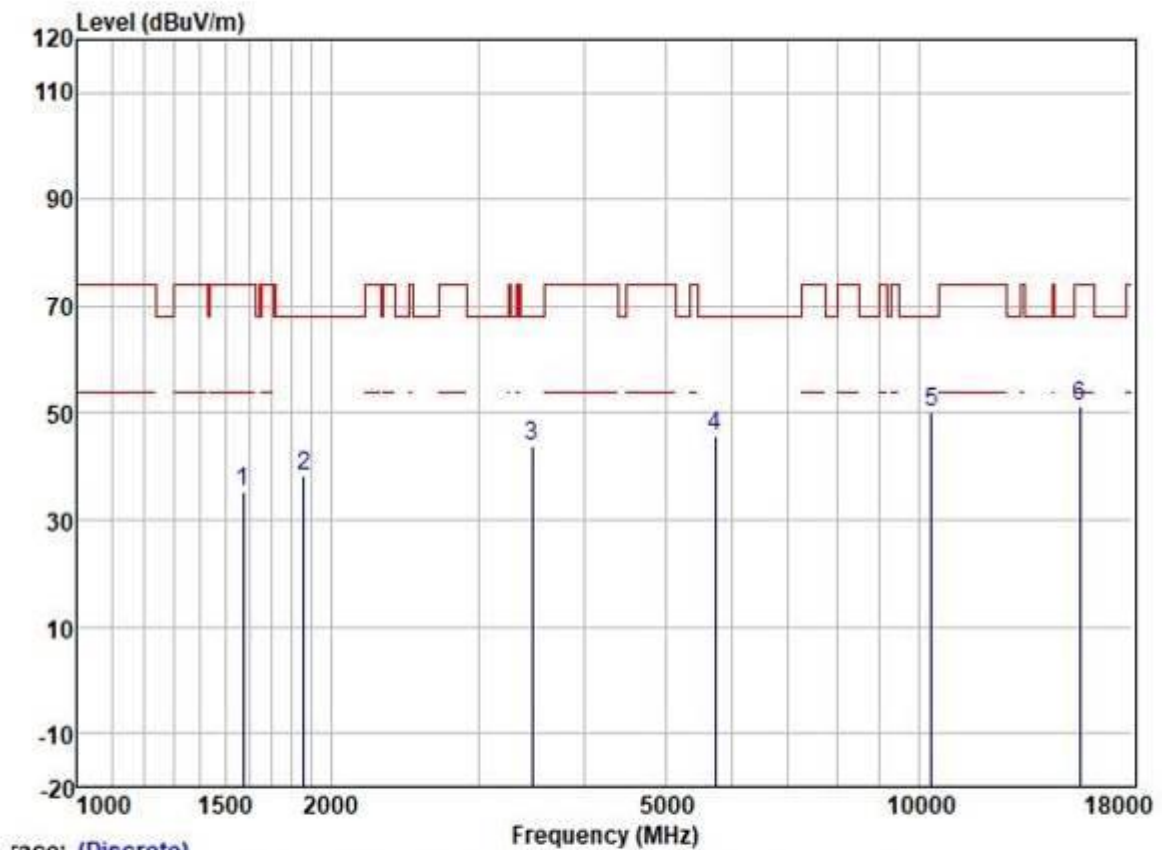
1. The disturbance below 30MHz and above 18GHz was very low, and the below harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
2. Pretest the EUT at antenna 1 and antenna 2 and MIMO mode find the worst case is MIMO mode.
3. Pretest the EUT in 802.11a/ n(20)/ n(40)/ ac (20)/ ac (40)/ ac(80) find the worst case are 802.11a /n(40)/ ac(80), only record the worst case test data 802.11a in this report.
4. For the emission 30MHz to 1Ghz, lowest, middle, highest channel test performed at band U-NII-1, U-NII-2A, U-NII-2C, U-NII-3, find the worst case is band U-NII-1 802.11a mode lowest channel, only record the worst case.

Test Mode: 13; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



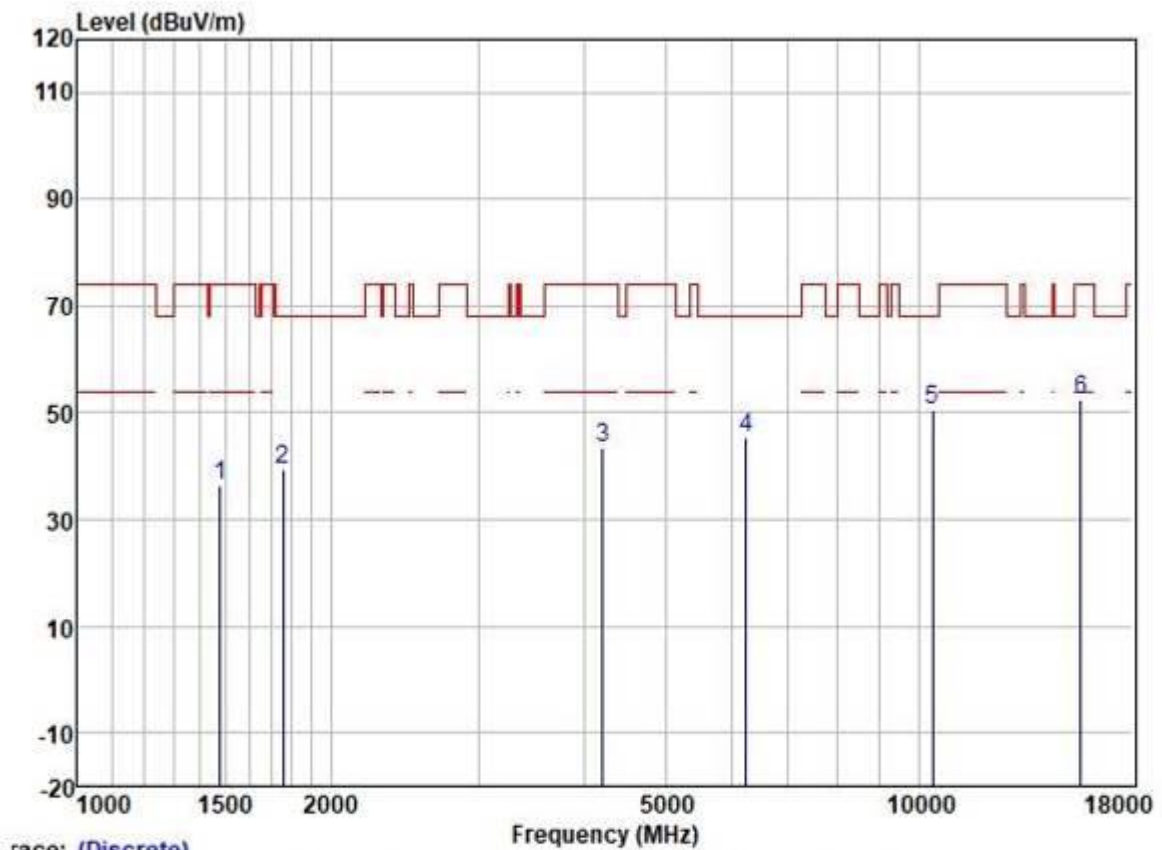
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1382.441  | 48.21       | 25.37  | 2.60  | 38.25  | 37.93  | 74.00  | -36.07 | HORIZONTAL | Peak   |
| 2 | 2008.708  | 48.22       | 26.11  | 3.10  | 37.70  | 39.73  | 68.20  | -28.47 | HORIZONTAL | Peak   |
| 3 | 3775.044  | 46.44       | 29.47  | 4.59  | 36.86  | 43.64  | 74.00  | -30.36 | HORIZONTAL | Peak   |
| 4 | 6033.198  | 44.26       | 32.48  | 6.18  | 36.90  | 46.02  | 68.20  | -22.18 | HORIZONTAL | Peak   |
| 5 | 10360.000 | 40.26       | 39.28  | 7.29  | 37.37  | 49.46  | 68.20  | -18.74 | HORIZONTAL | Peak   |
| 6 | 15540.000 | 38.13       | 39.05  | 9.88  | 35.39  | 51.67  | 74.00  | -22.33 | HORIZONTAL | Peak   |

Test Mode: 13; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



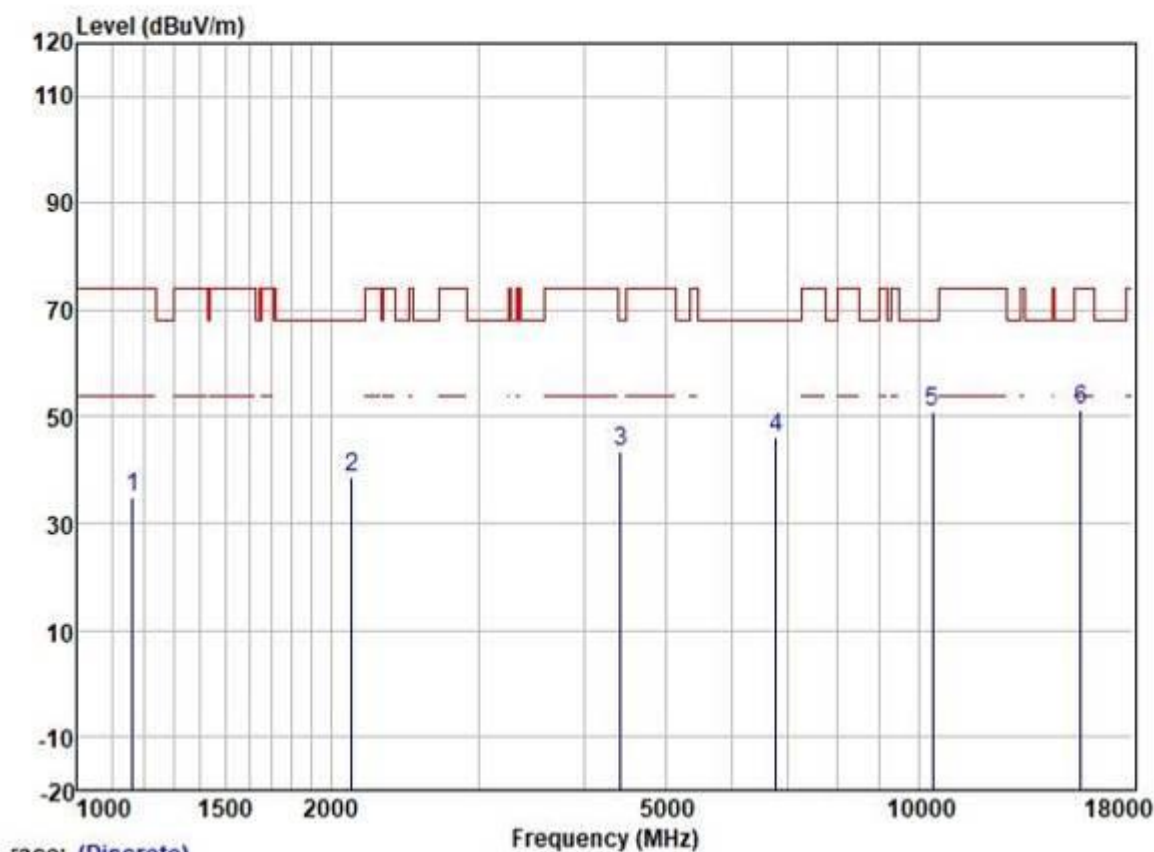
|   | Freq      | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |           |        |
|---|-----------|-------------|--------|--------|--------|--------|--------|--------|-----------|--------|
|   | MHz       | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1573.995  | 44.95       | 25.56  | 2.80   | 38.00  | 35.31  | 74.00  | -38.69 | VERTICAL  | Peak   |
| 2 | 1858.596  | 47.01       | 26.00  | 2.94   | 37.78  | 38.17  | 68.20  | -30.03 | VERTICAL  | Peak   |
| 3 | 3472.780  | 47.53       | 28.89  | 4.25   | 36.95  | 43.72  | 68.20  | -24.48 | VERTICAL  | Peak   |
| 4 | 5727.553  | 44.22       | 32.07  | 6.25   | 36.89  | 45.65  | 68.20  | -22.55 | VERTICAL  | Peak   |
| 5 | 10360.000 | 40.93       | 39.28  | 7.29   | 37.37  | 50.13  | 68.20  | -18.07 | VERTICAL  | Peak   |
| 6 | 15540.000 | 37.60       | 39.05  | 9.88   | 35.39  | 51.14  | 74.00  | -22.86 | VERTICAL  | Peak   |

Test Mode: 13; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |                 |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|-----------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark          |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |                 |
| 1 | 1480.503  | 46.43 | 25.48   | 2.77  | 38.13  | 36.55  | 74.00  | -37.45    | HORIZONTAL Peak |
| 2 | 1754.693  | 48.42 | 25.87   | 2.91  | 37.85  | 39.35  | 68.20  | -28.85    | HORIZONTAL Peak |
| 3 | 4214.788  | 45.43 | 30.22   | 4.60  | 36.81  | 43.44  | 74.00  | -30.56    | HORIZONTAL Peak |
| 4 | 6232.494  | 43.27 | 33.11   | 6.04  | 36.94  | 45.48  | 68.20  | -22.72    | HORIZONTAL Peak |
| 5 | 10400.000 | 41.30 | 39.33   | 7.32  | 37.36  | 50.59  | 68.20  | -17.61    | HORIZONTAL Peak |
| 6 | 15600.000 | 38.94 | 38.99   | 9.88  | 35.39  | 52.42  | 74.00  | -21.58    | HORIZONTAL Peak |

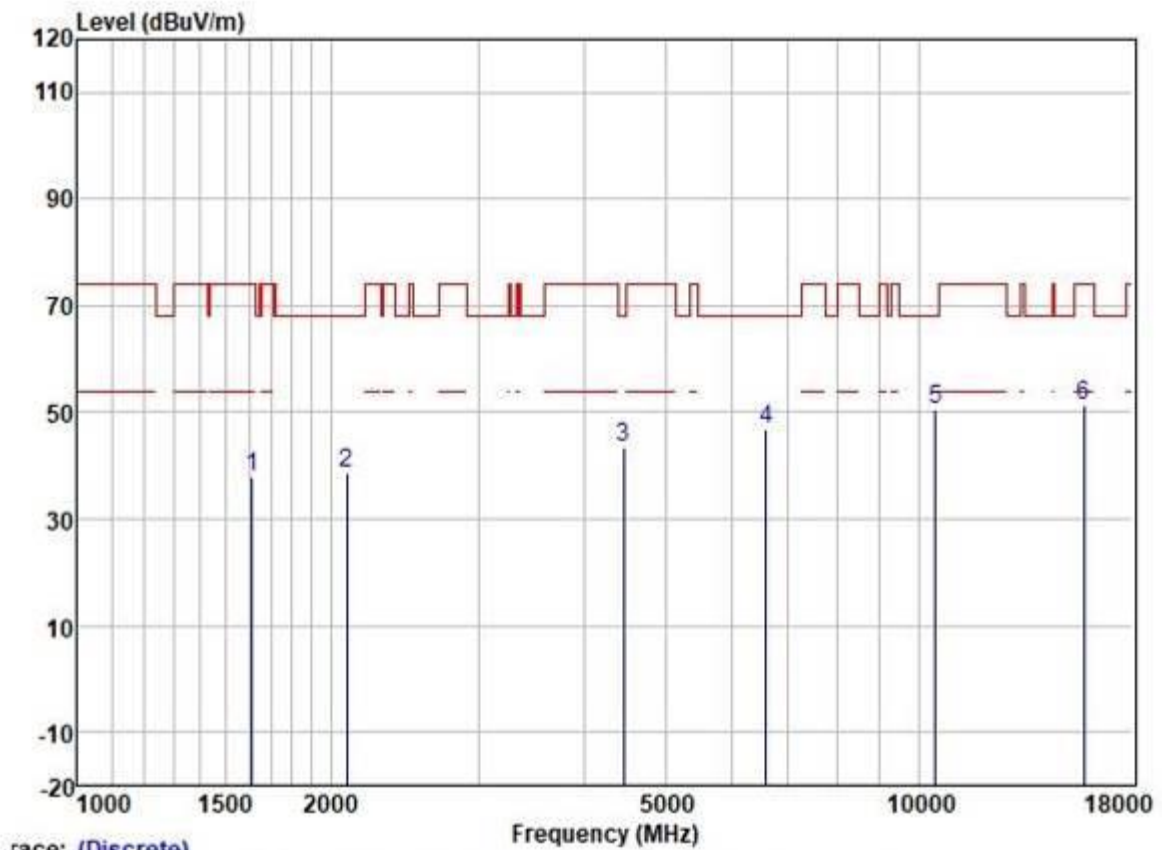
Test Mode: 13; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



race: (Discrete)

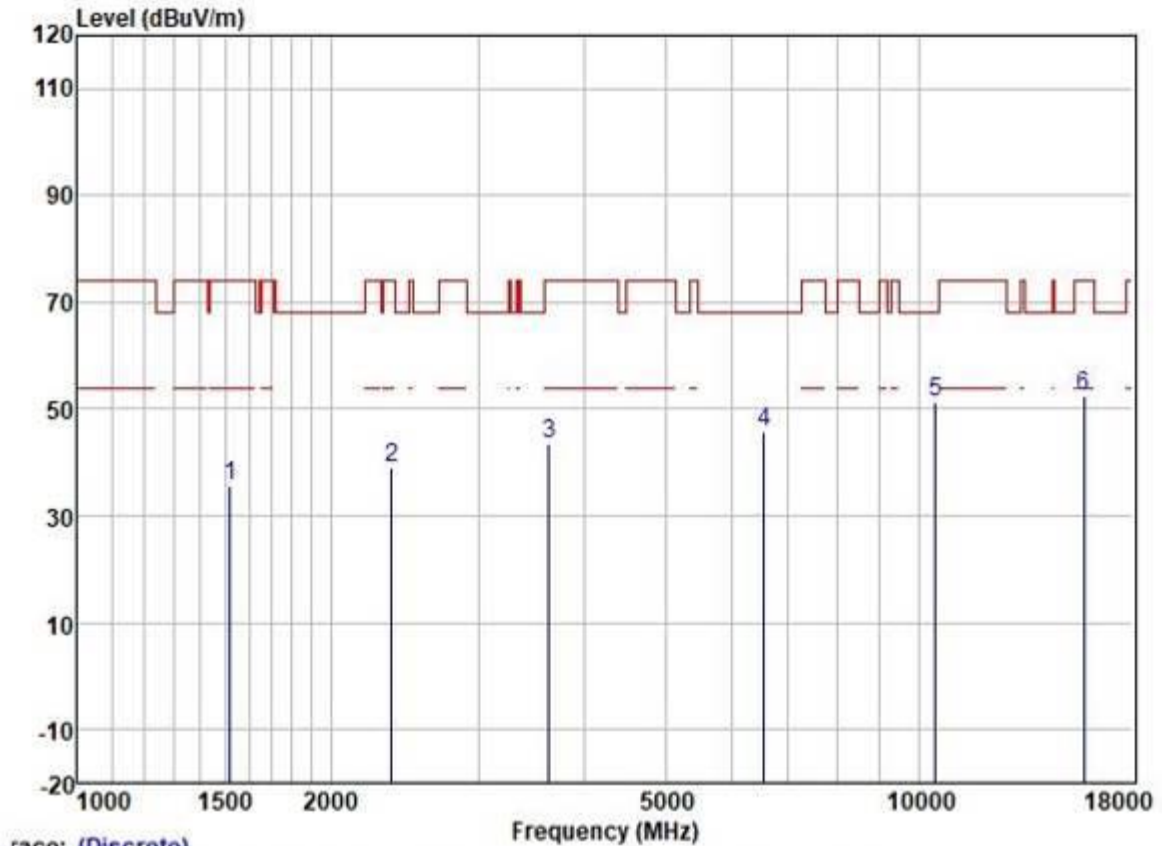
|   | Freq      | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |           |        |
|---|-----------|-------------|--------|--------|--------|--------|--------|--------|-----------|--------|
|   |           | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1162.933  | 46.28       | 24.53  | 2.40   | 38.40  | 34.81  | 74.00  | -39.19 | VERTICAL  | Peak   |
| 2 | 2121.955  | 46.89       | 26.34  | 3.17   | 37.67  | 38.73  | 68.20  | -29.47 | VERTICAL  | Peak   |
| 3 | 4431.312  | 44.60       | 30.72  | 4.78   | 36.81  | 43.29  | 68.20  | -24.91 | VERTICAL  | Peak   |
| 4 | 6763.780  | 42.88       | 34.56  | 5.82   | 37.11  | 46.15  | 68.20  | -22.05 | VERTICAL  | Peak   |
| 5 | 10400.000 | 41.70       | 39.33  | 7.32   | 37.36  | 50.99  | 68.20  | -17.21 | VERTICAL  | Peak   |
| 6 | 15600.000 | 37.89       | 38.99  | 9.88   | 35.39  | 51.37  | 74.00  | -22.63 | VERTICAL  | Peak   |

Test Mode: 13; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



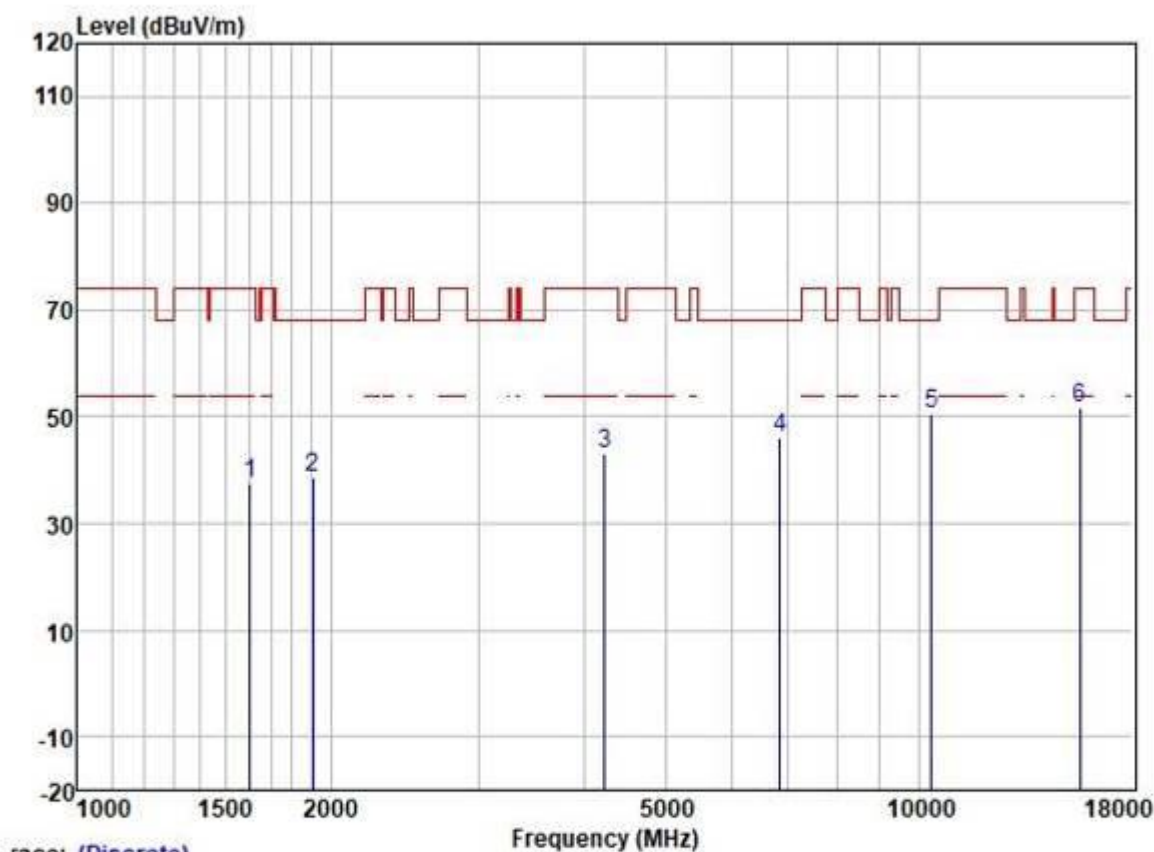
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |                 |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|-----------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark          |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |                 |
| 1 | 1613.532  | 47.60 | 25.60   | 2.80  | 37.95  | 38.05  | 74.00  | -35.95    | HORIZONTAL Peak |
| 2 | 2092.642  | 46.79 | 26.27   | 3.15  | 37.68  | 38.53  | 68.20  | -29.67    | HORIZONTAL Peak |
| 3 | 4467.823  | 44.66 | 30.77   | 4.93  | 36.81  | 43.55  | 68.20  | -24.65    | HORIZONTAL Peak |
| 4 | 6582.034  | 43.99 | 34.13   | 5.84  | 37.03  | 46.93  | 68.20  | -21.27    | HORIZONTAL Peak |
| 5 | 10480.000 | 40.98 | 39.46   | 7.40  | 37.36  | 50.48  | 68.20  | -17.72    | HORIZONTAL Peak |
| 6 | 15720.000 | 38.08 | 38.78   | 9.87  | 35.39  | 51.34  | 74.00  | -22.66    | HORIZONTAL Peak |

Test Mode: 13; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1521.047  | 45.43       | 25.51  | 2.80  | 38.07  | 35.67  | 74.00  | -38.33 | VERTICAL  | Peak   |
| 2 | 2363.967  | 45.89       | 27.28  | 3.43  | 37.60  | 39.00  | 74.00  | -35.00 | VERTICAL  | Peak   |
| 3 | 3632.244  | 46.93       | 29.09  | 4.51  | 36.90  | 43.63  | 74.00  | -30.37 | VERTICAL  | Peak   |
| 4 | 6552.665  | 42.84       | 34.06  | 5.84  | 37.03  | 45.71  | 68.20  | -22.49 | VERTICAL  | Peak   |
| 5 | 10480.000 | 41.74       | 39.46  | 7.40  | 37.36  | 51.24  | 68.20  | -16.96 | VERTICAL  | Peak   |
| 6 | 15720.000 | 39.13       | 38.78  | 9.87  | 35.39  | 52.39  | 74.00  | -21.61 | VERTICAL  | Peak   |

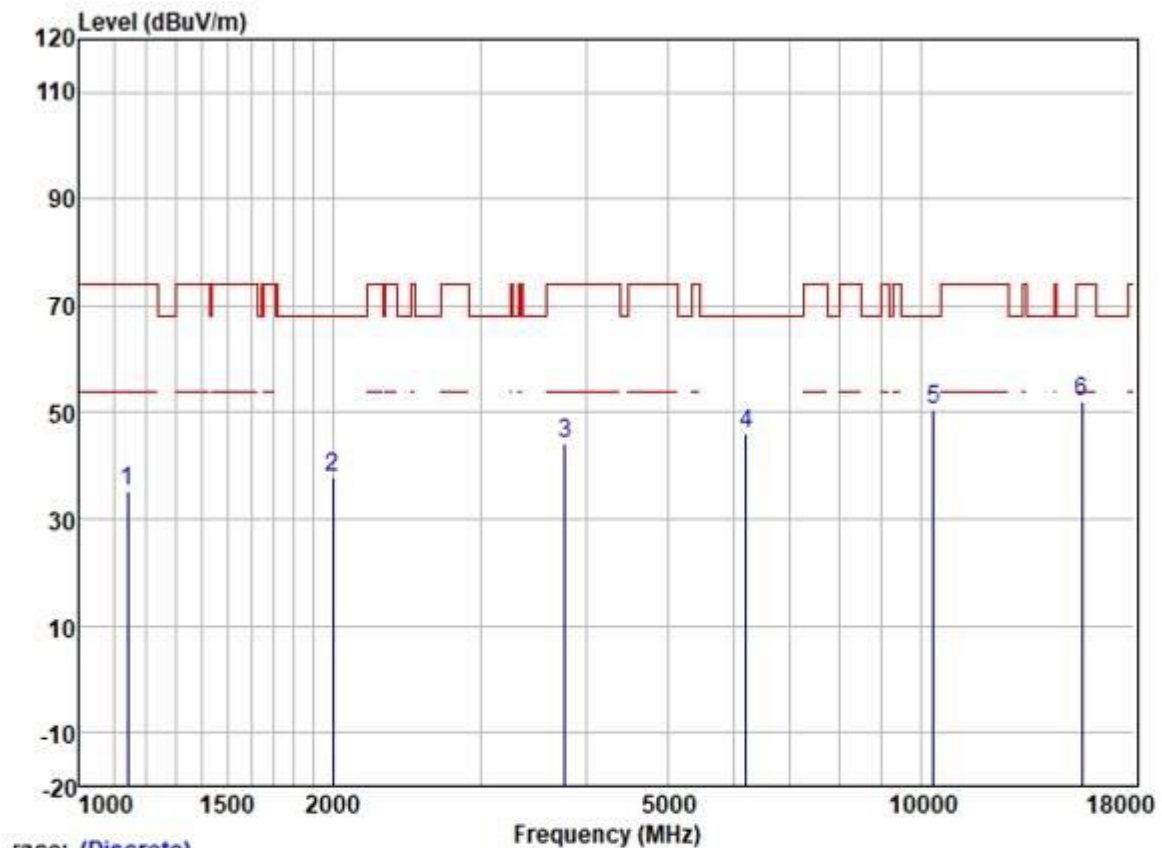
Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



race: (Discrete)

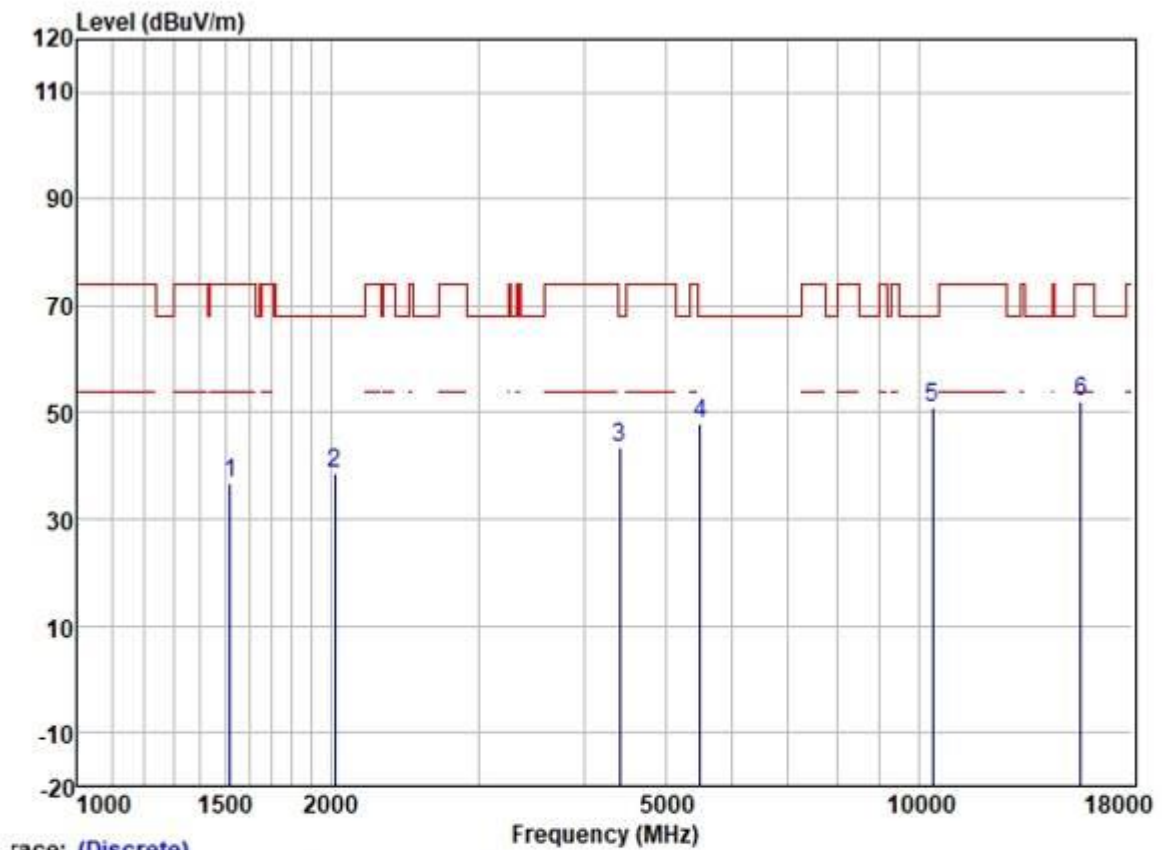
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |                 |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|-----------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark          |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |                 |
| 1 | 1605.450  | 46.91 | 25.59   | 2.80  | 37.98  | 37.32  | 74.00  | -36.68    | HORIZONTAL Peak |
| 2 | 1905.076  | 47.52 | 26.04   | 2.91  | 37.75  | 38.72  | 68.20  | -29.48    | HORIZONTAL Peak |
| 3 | 4238.429  | 44.97 | 30.30   | 4.62  | 36.81  | 43.08  | 74.00  | -30.92    | HORIZONTAL Peak |
| 4 | 6841.339  | 42.61 | 34.74   | 5.82  | 37.15  | 46.02  | 68.20  | -22.18    | HORIZONTAL Peak |
| 5 | 10360.000 | 41.34 | 39.28   | 7.29  | 37.37  | 50.54  | 68.20  | -17.66    | HORIZONTAL Peak |
| 6 | 15540.000 | 38.11 | 39.05   | 9.88  | 35.39  | 51.65  | 74.00  | -22.35    | HORIZONTAL Peak |

Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



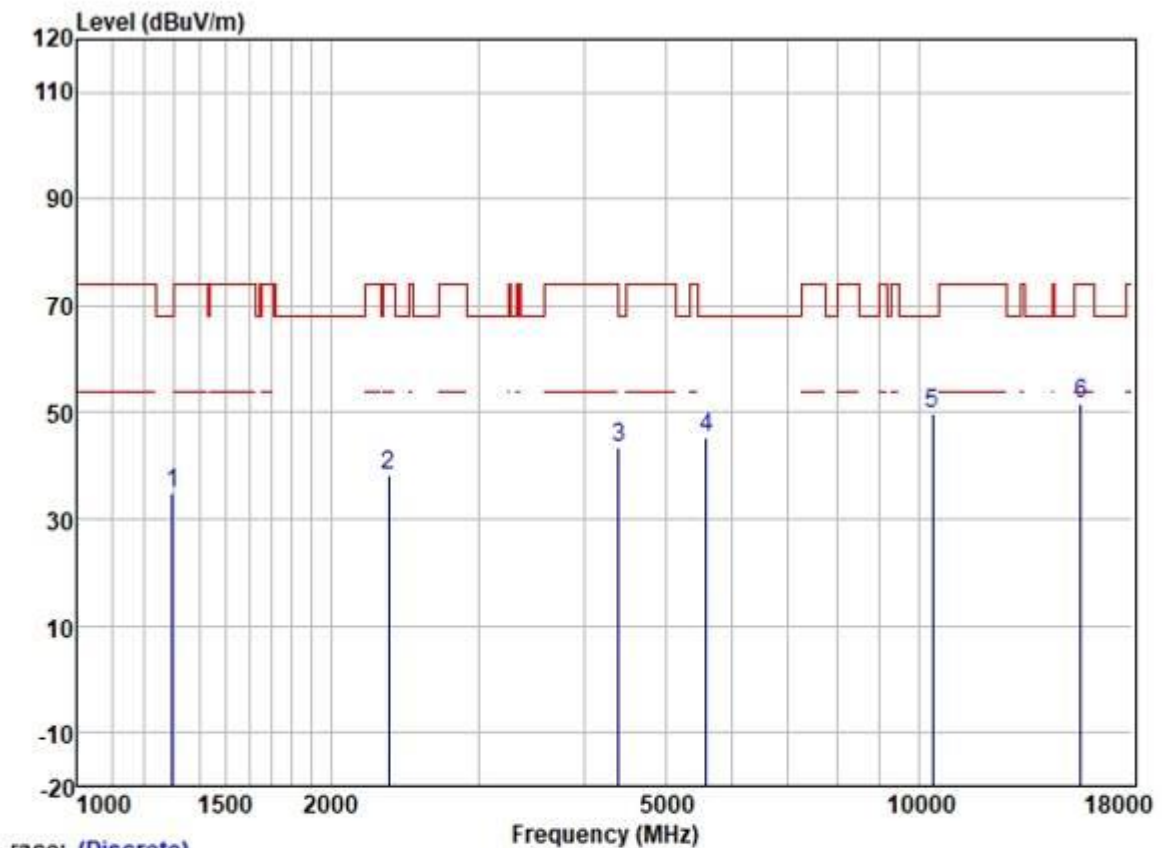
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1141.941  | 46.85       | 24.47  | 2.30  | 38.42  | 35.20  | 74.00  | -38.80 | VERTICAL  | Peak   |
| 2 | 2003.954  | 46.45       | 26.10  | 3.10  | 37.70  | 37.95  | 68.20  | -30.25 | VERTICAL  | Peak   |
| 3 | 3773.882  | 46.89       | 29.45  | 4.59  | 36.86  | 44.07  | 74.00  | -29.93 | VERTICAL  | Peak   |
| 4 | 6199.057  | 43.96       | 32.96  | 6.07  | 36.94  | 46.05  | 68.20  | -22.15 | VERTICAL  | Peak   |
| 5 | 10360.000 | 41.50       | 39.28  | 7.29  | 37.37  | 50.70  | 68.20  | -17.50 | VERTICAL  | Peak   |
| 6 | 15540.000 | 38.45       | 39.05  | 9.88  | 35.39  | 51.99  | 74.00  | -22.01 | VERTICAL  | Peak   |

Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



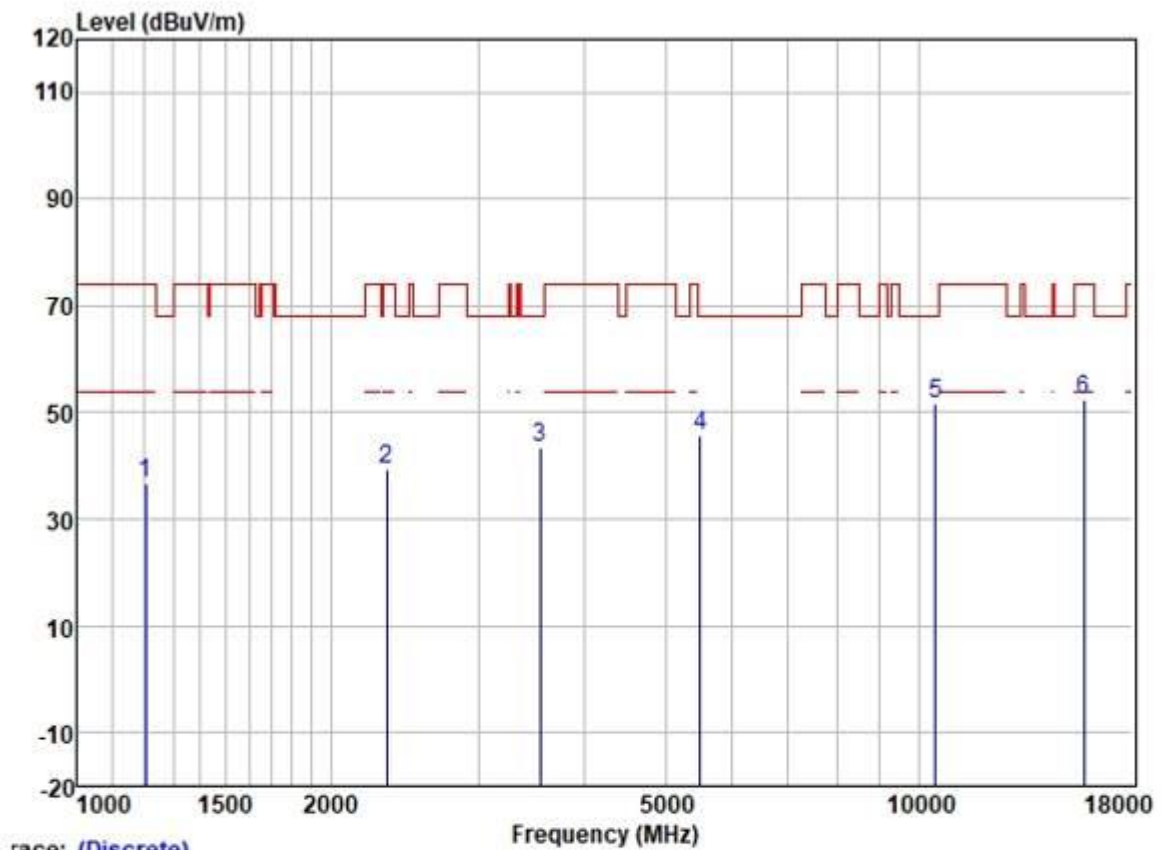
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1520.135  | 46.41       | 25.51  | 2.80  | 38.07  | 36.65  | 74.00  | -37.35 | HORIZONTAL | Peak   |
| 2 | 2025.137  | 47.12       | 26.14  | 3.11  | 37.69  | 38.68  | 68.20  | -29.52 | HORIZONTAL | Peak   |
| 3 | 4416.646  | 44.68       | 30.70  | 4.74  | 36.81  | 43.31  | 68.20  | -24.89 | HORIZONTAL | Peak   |
| 4 | 5505.786  | 46.52       | 31.80  | 6.40  | 36.88  | 47.84  | 68.20  | -20.36 | HORIZONTAL | Peak   |
| 5 | 10400.000 | 41.59       | 39.33  | 7.32  | 37.36  | 50.88  | 68.20  | -17.32 | HORIZONTAL | Peak   |
| 6 | 15600.000 | 38.53       | 38.99  | 9.88  | 35.39  | 52.01  | 74.00  | -21.99 | HORIZONTAL | Peak   |

Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1296.113  | 45.36 | 25.19   | 2.58  | 38.31  | 34.82  | 68.20  | -33.38    | VERTICAL Peak |
| 2 | 2342.498  | 45.21 | 27.24   | 3.38  | 37.61  | 38.22  | 74.00  | -35.78    | VERTICAL Peak |
| 3 | 4395.902  | 44.95 | 30.66   | 4.70  | 36.81  | 43.50  | 74.00  | -30.50    | VERTICAL Peak |
| 4 | 5595.726  | 44.07 | 31.89   | 6.30  | 36.89  | 45.37  | 68.20  | -22.83    | VERTICAL Peak |
| 5 | 10400.000 | 40.70 | 39.33   | 7.32  | 37.36  | 49.99  | 68.20  | -18.21    | VERTICAL Peak |
| 6 | 15600.000 | 38.27 | 38.99   | 9.88  | 35.39  | 51.75  | 74.00  | -22.25    | VERTICAL Peak |

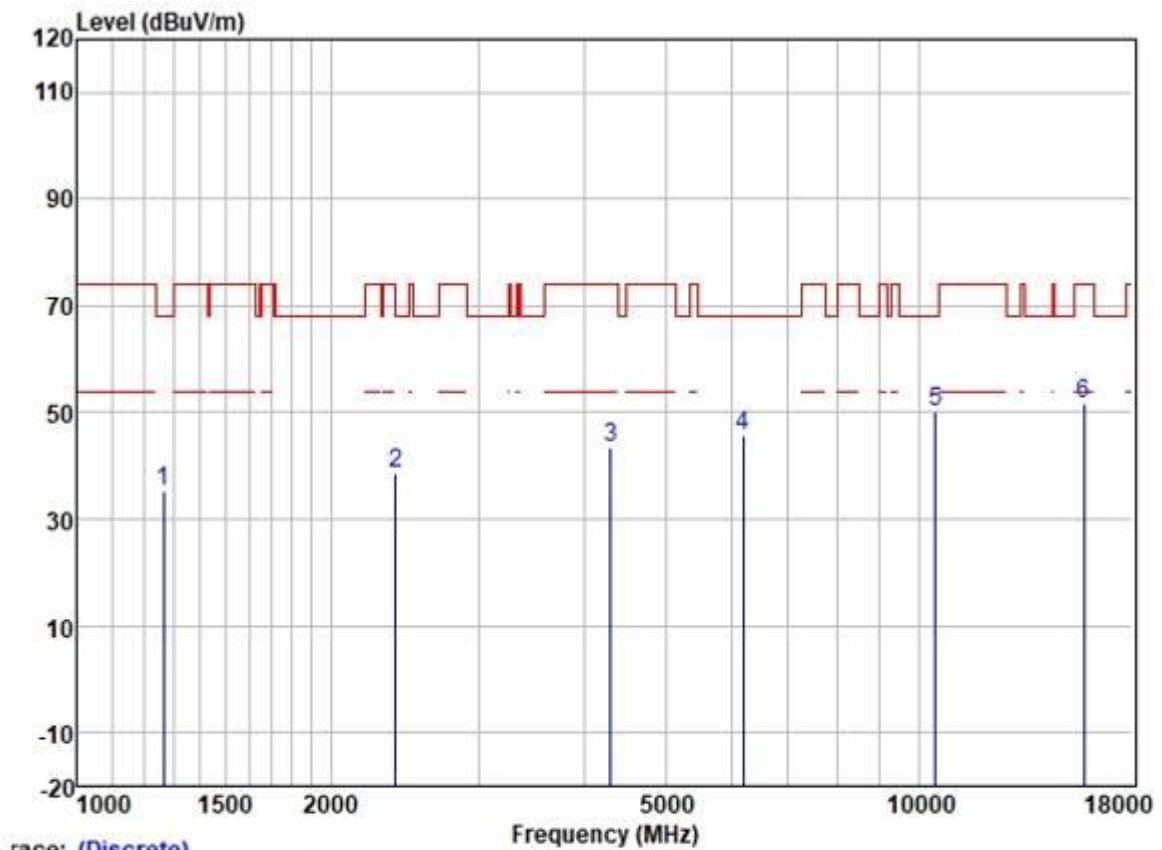
Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



race: (Discrete)

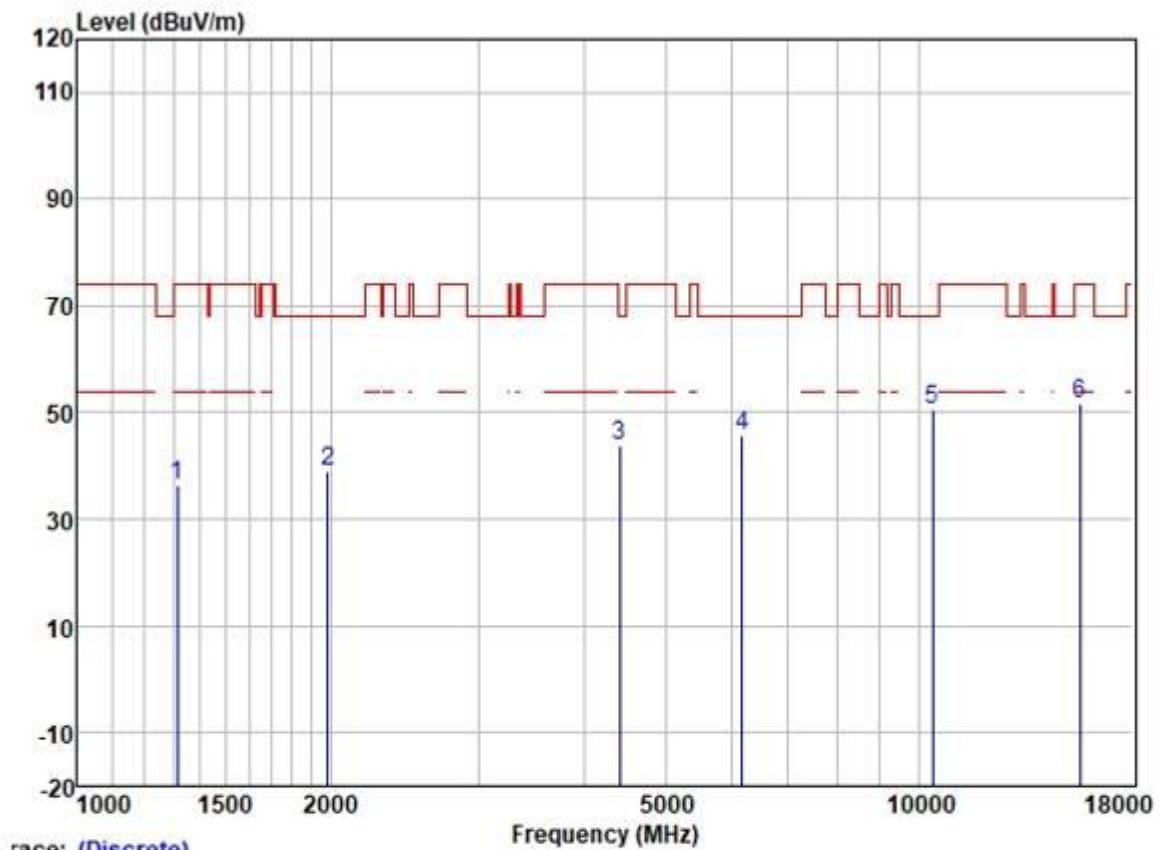
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |                 |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|-----------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark          |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |                 |
| 1 | 1205.432  | 48.07 | 24.72   | 2.33  | 38.39  | 36.73  | 74.00  | -37.27    | HORIZONTAL Peak |
| 2 | 2329.370  | 46.44 | 27.20   | 3.36  | 37.62  | 39.38  | 74.00  | -34.62    | HORIZONTAL Peak |
| 3 | 3548.466  | 46.93 | 28.96   | 4.42  | 36.92  | 43.39  | 68.20  | -24.81    | HORIZONTAL Peak |
| 4 | 5502.812  | 44.42 | 31.80   | 6.40  | 36.88  | 45.74  | 68.20  | -22.46    | HORIZONTAL Peak |
| 5 | 10480.000 | 42.12 | 39.46   | 7.40  | 37.36  | 51.62  | 68.20  | -16.58    | HORIZONTAL Peak |
| 6 | 15720.000 | 39.29 | 38.78   | 9.87  | 35.39  | 52.55  | 74.00  | -21.45    | HORIZONTAL Peak |

Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



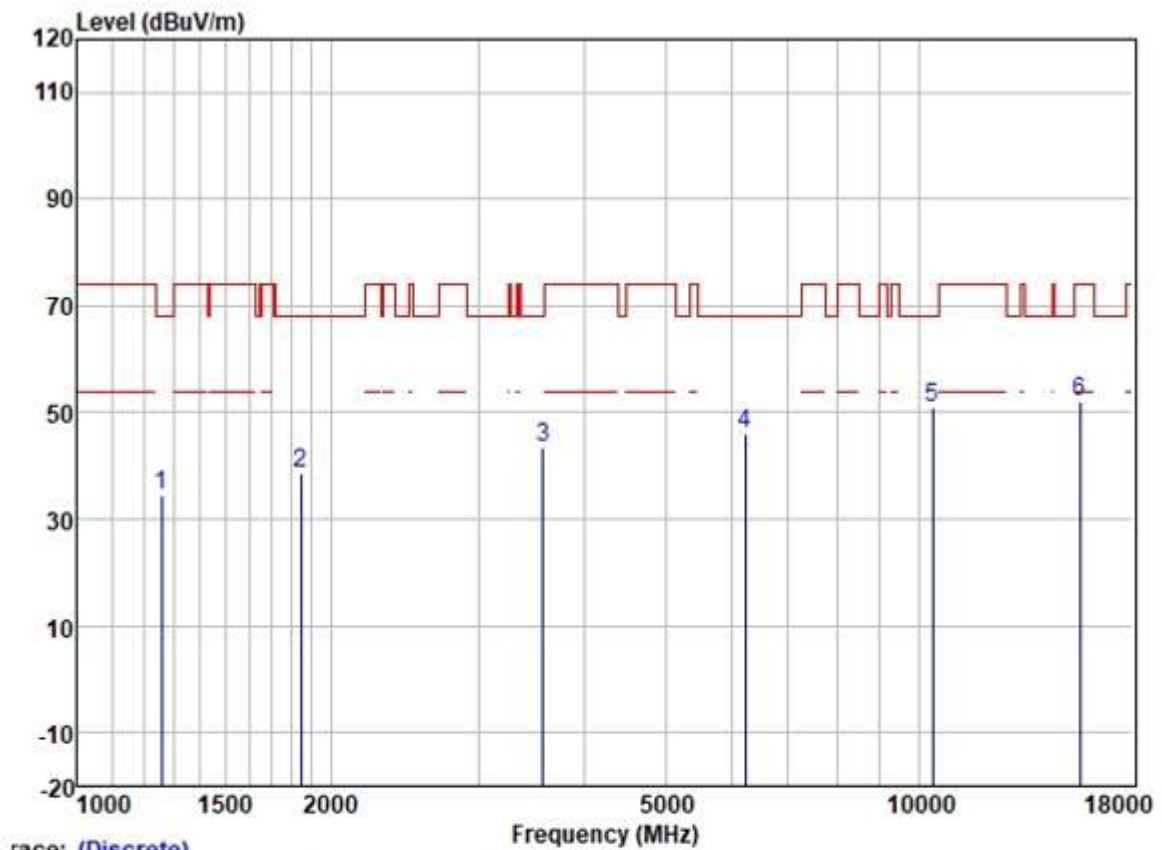
|   |           | Read  | Antenna | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------|---------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level | Factor  | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1267.479  | 46.02 | 25.10   | 2.44  | 38.33  | 35.23  | 68.20  | -32.97 | VERTICAL  | Peak   |
| 2 | 2387.084  | 45.41 | 27.33   | 3.48  | 37.60  | 38.62  | 74.00  | -35.38 | VERTICAL  | Peak   |
| 3 | 4302.817  | 45.09 | 30.48   | 4.65  | 36.81  | 43.41  | 74.00  | -30.59 | VERTICAL  | Peak   |
| 4 | 6194.762  | 43.70 | 32.96   | 6.07  | 36.94  | 45.79  | 68.20  | -22.41 | VERTICAL  | Peak   |
| 5 | 10480.000 | 40.69 | 39.46   | 7.40  | 37.36  | 50.19  | 68.20  | -18.01 | VERTICAL  | Peak   |
| 6 | 15720.000 | 38.56 | 38.78   | 9.87  | 35.39  | 51.82  | 74.00  | -22.18 | VERTICAL  | Peak   |

Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



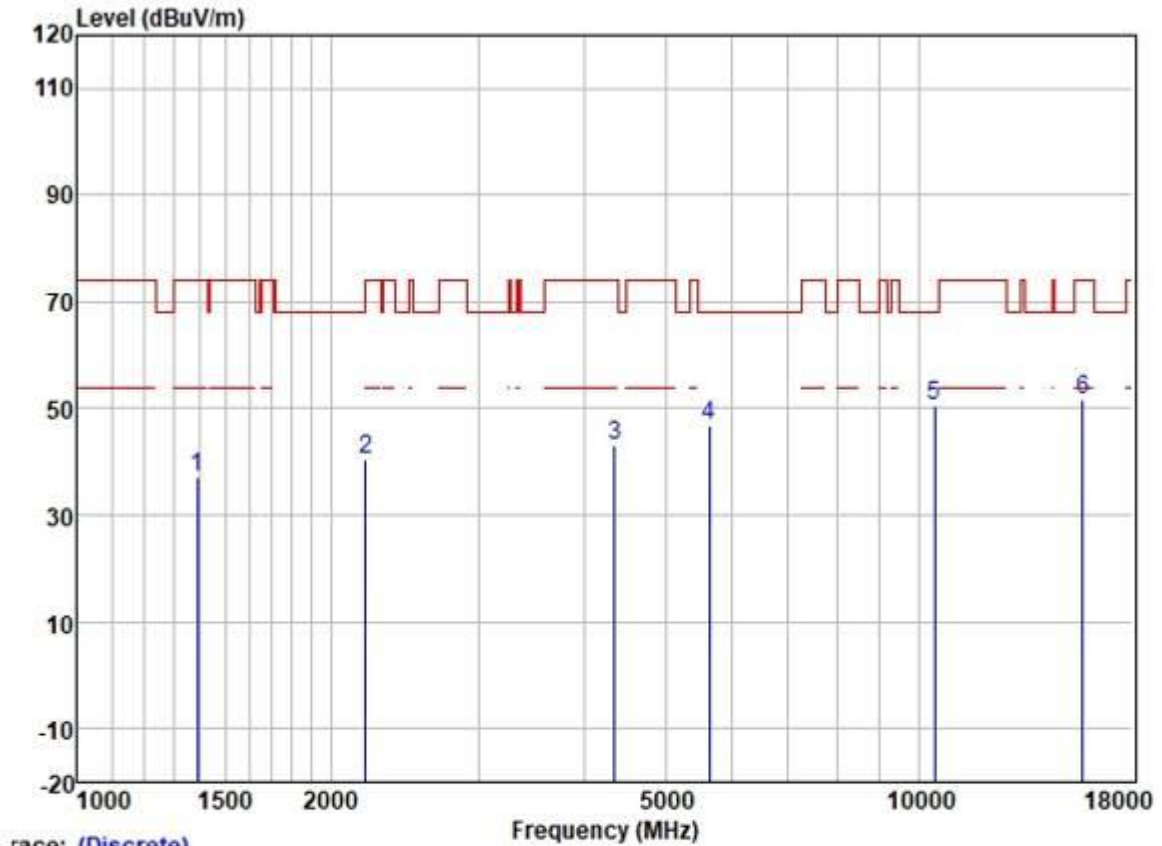
|   |           | Read  | Antenna | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------|---------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level | Factor  | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1315.267  | 46.75 | 25.24   | 2.60  | 38.29  | 36.30  | 74.00  | -37.70 | HORIZONTAL | Peak   |
| 2 | 1984.113  | 47.48 | 26.09   | 3.07  | 37.71  | 38.93  | 68.20  | -29.27 | HORIZONTAL | Peak   |
| 3 | 4412.299  | 45.22 | 30.70   | 4.74  | 36.81  | 43.85  | 68.20  | -24.35 | HORIZONTAL | Peak   |
| 4 | 6170.528  | 43.77 | 32.89   | 6.09  | 36.93  | 45.82  | 68.20  | -22.38 | HORIZONTAL | Peak   |
| 5 | 10380.000 | 41.17 | 39.33   | 7.32  | 37.37  | 50.45  | 68.20  | -17.75 | HORIZONTAL | Peak   |
| 6 | 15570.000 | 38.30 | 38.99   | 9.88  | 35.39  | 51.78  | 74.00  | -22.22 | HORIZONTAL | Peak   |

Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



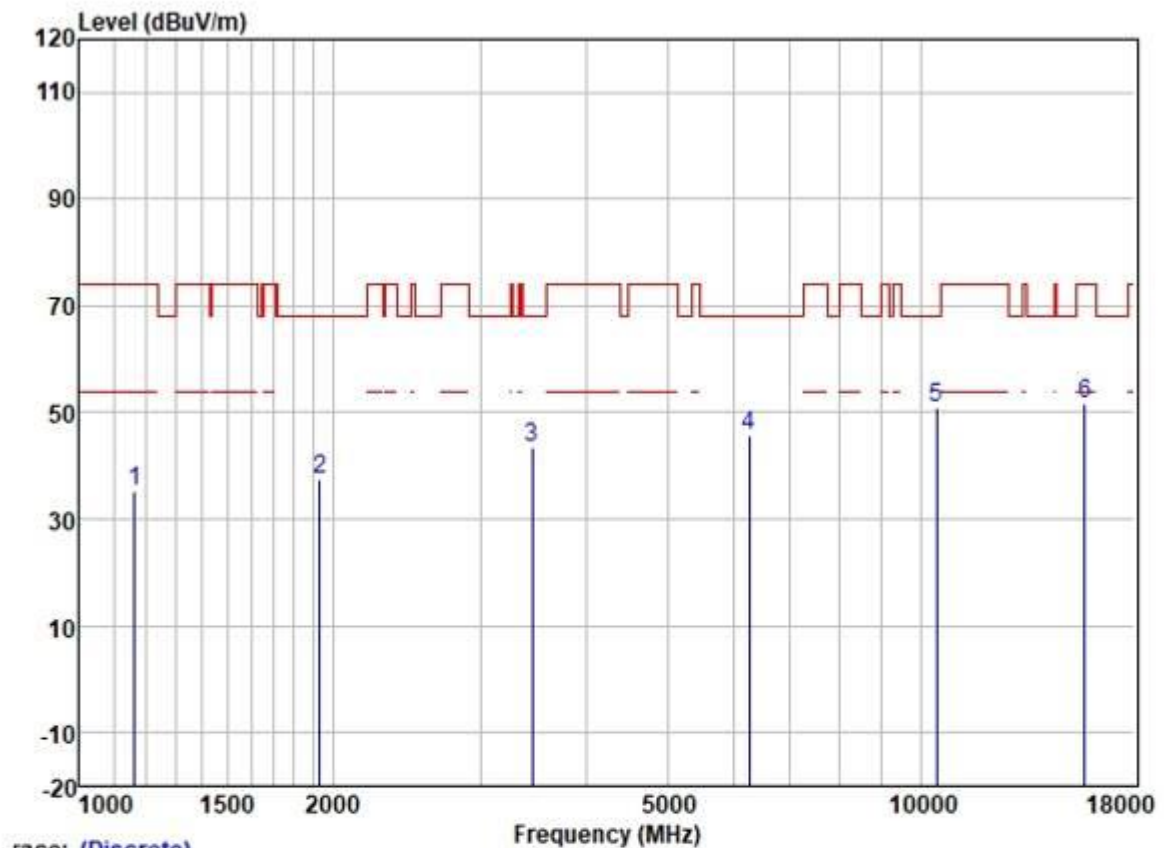
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1258.705  | 45.50       | 25.07  | 2.40  | 38.35  | 34.62  | 68.20  | -33.58 | VERTICAL  | Peak   |
| 2 | 1845.704  | 47.59       | 25.99  | 2.95  | 37.78  | 38.75  | 68.20  | -29.45 | VERTICAL  | Peak   |
| 3 | 3580.735  | 46.74       | 29.00  | 4.47  | 36.92  | 43.29  | 68.20  | -24.91 | VERTICAL  | Peak   |
| 4 | 6216.284  | 43.91       | 33.03  | 6.06  | 36.94  | 46.06  | 68.20  | -22.14 | VERTICAL  | Peak   |
| 5 | 10380.000 | 41.61       | 39.33  | 7.32  | 37.37  | 50.89  | 68.20  | -17.31 | VERTICAL  | Peak   |
| 6 | 15570.000 | 38.64       | 38.99  | 9.88  | 35.39  | 52.12  | 74.00  | -21.88 | VERTICAL  | Peak   |

Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



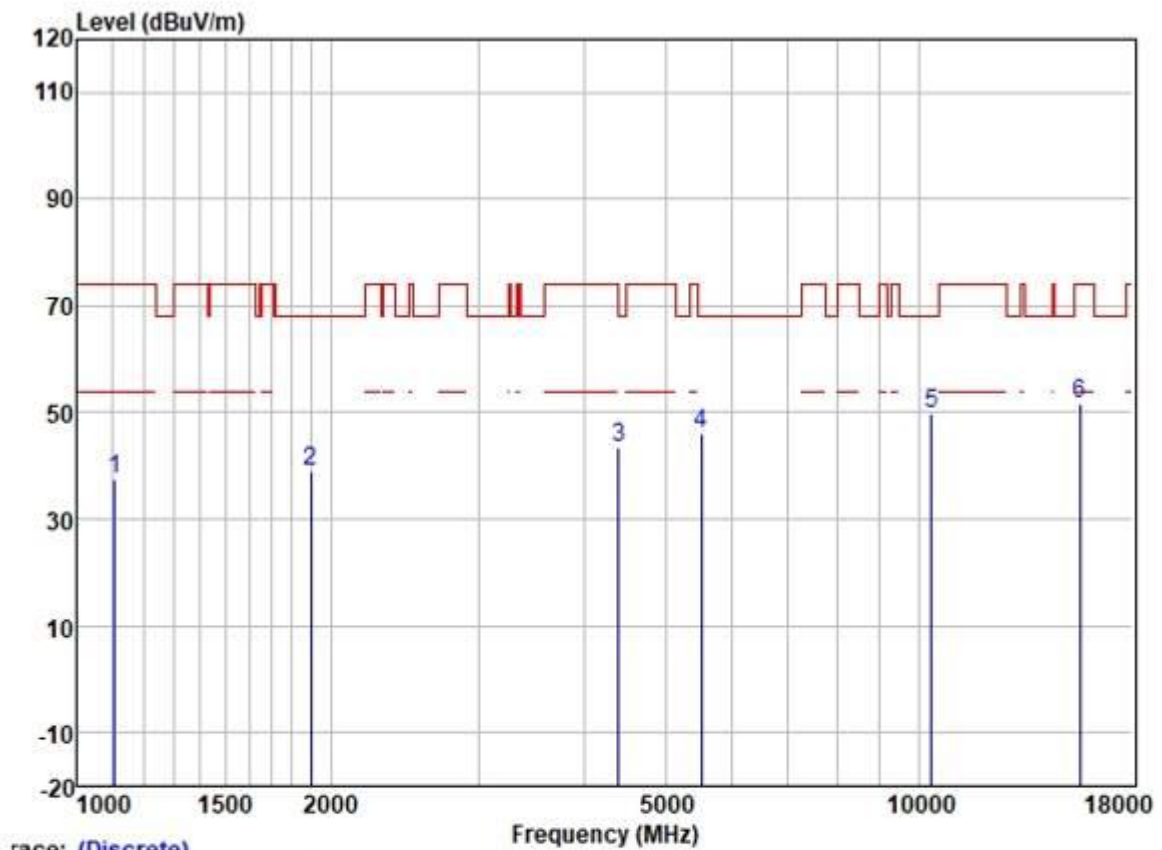
|   | Freq      | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |            |        |
|---|-----------|-------------|--------|--------|--------|--------|--------|--------|------------|--------|
|   | MHz       | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1387.852  | 47.51       | 25.37  | 2.60   | 38.22  | 37.26  | 74.00  | -36.74 | HORIZONTAL | Peak   |
| 2 | 2203.010  | 48.20       | 26.62  | 3.20   | 37.65  | 40.37  | 74.00  | -33.63 | HORIZONTAL | Peak   |
| 3 | 4349.439  | 44.64       | 30.59  | 4.68   | 36.81  | 43.10  | 74.00  | -30.90 | HORIZONTAL | Peak   |
| 4 | 5648.283  | 45.26       | 31.95  | 6.35   | 36.89  | 46.67  | 68.20  | -21.53 | HORIZONTAL | Peak   |
| 5 | 10460.000 | 41.00       | 39.42  | 7.37   | 37.36  | 50.43  | 68.20  | -17.77 | HORIZONTAL | Peak   |
| 6 | 15690.000 | 38.33       | 38.86  | 9.87   | 35.39  | 51.67  | 74.00  | -22.33 | HORIZONTAL | Peak   |

Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



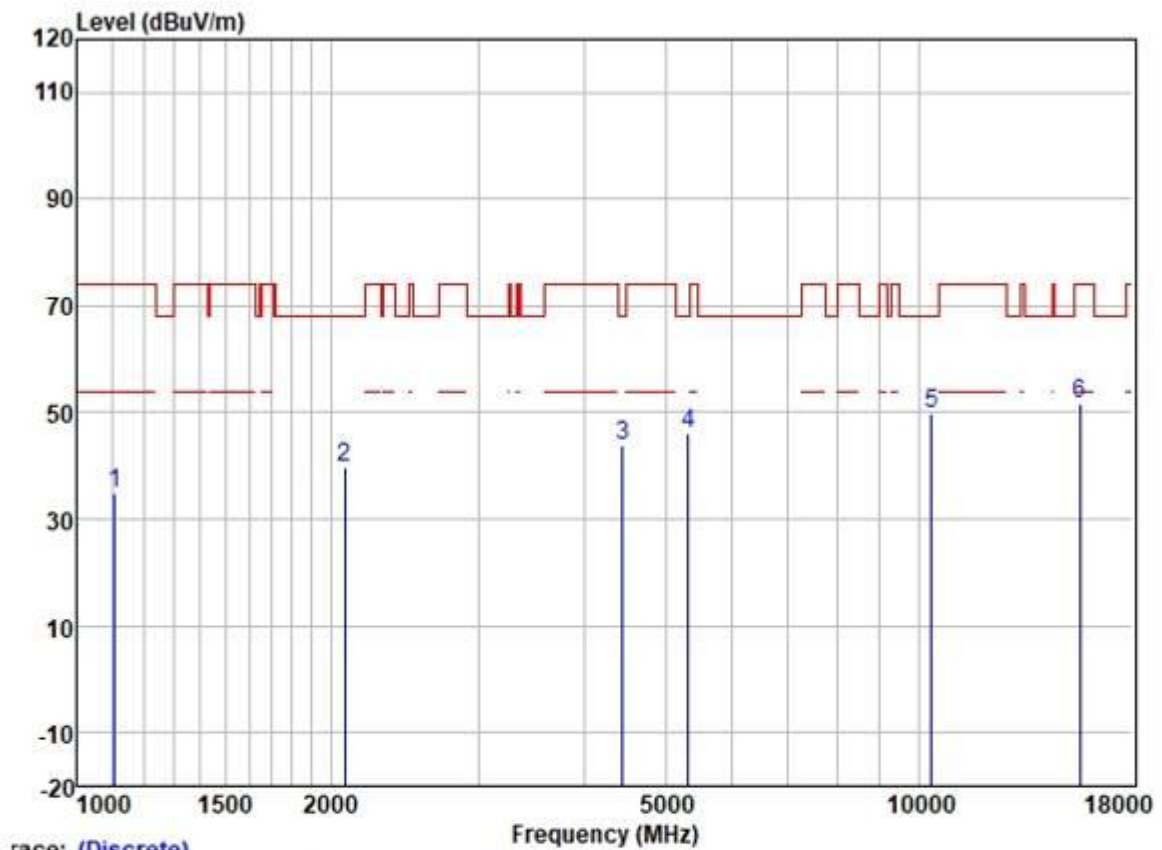
|   |           | Read  | Antenna | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------|---------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level | Factor  | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1162.016  | 46.71 | 24.53   | 2.40  | 38.42  | 35.22  | 74.00  | -38.78 | VERTICAL  | Peak   |
| 2 | 1930.498  | 46.26 | 26.06   | 2.96  | 37.74  | 37.54  | 68.20  | -30.66 | VERTICAL  | Peak   |
| 3 | 3451.983  | 47.28 | 28.88   | 4.20  | 36.96  | 43.40  | 68.20  | -24.80 | VERTICAL  | Peak   |
| 4 | 6260.499  | 43.37 | 33.29   | 6.00  | 36.95  | 45.71  | 68.20  | -22.49 | VERTICAL  | Peak   |
| 5 | 10460.000 | 41.33 | 39.42   | 7.37  | 37.36  | 50.76  | 68.20  | -17.44 | VERTICAL  | Peak   |
| 6 | 15690.000 | 38.52 | 38.86   | 9.87  | 35.39  | 51.86  | 74.00  | -22.14 | VERTICAL  | Peak   |

Test Mode: 13; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



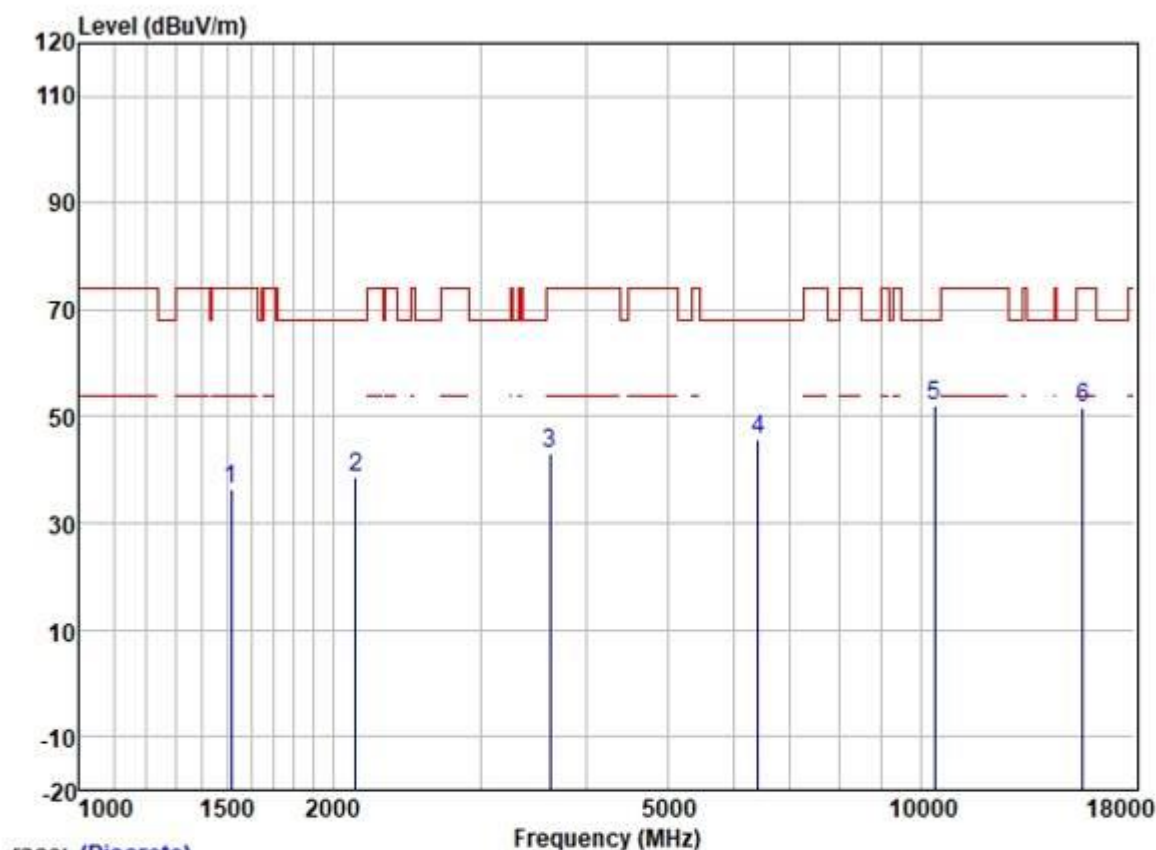
|   |           | ReadAntenna | Cable Preamp |      | Limit  | Over   |        |        |            |        |
|---|-----------|-------------|--------------|------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor       | Loss | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m         | dB   | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1106.113  | 49.36       | 24.38        | 2.28 | 38.45  | 37.57  | 74.00  | -36.43 | HORIZONTAL | Peak   |
| 2 | 1892.804  | 47.93       | 26.04        | 2.90 | 37.75  | 39.12  | 68.20  | -29.08 | HORIZONTAL | Peak   |
| 3 | 4405.881  | 44.81       | 30.68        | 4.70 | 36.81  | 43.38  | 68.20  | -24.82 | HORIZONTAL | Peak   |
| 4 | 5525.421  | 44.86       | 31.81        | 6.38 | 36.89  | 46.16  | 68.20  | -22.04 | HORIZONTAL | Peak   |
| 5 | 10360.000 | 40.47       | 39.28        | 7.29 | 37.37  | 49.67  | 68.20  | -18.53 | HORIZONTAL | Peak   |
| 6 | 15540.000 | 38.22       | 39.05        | 9.88 | 35.39  | 51.76  | 74.00  | -22.24 | HORIZONTAL | Peak   |

Test Mode: 13; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



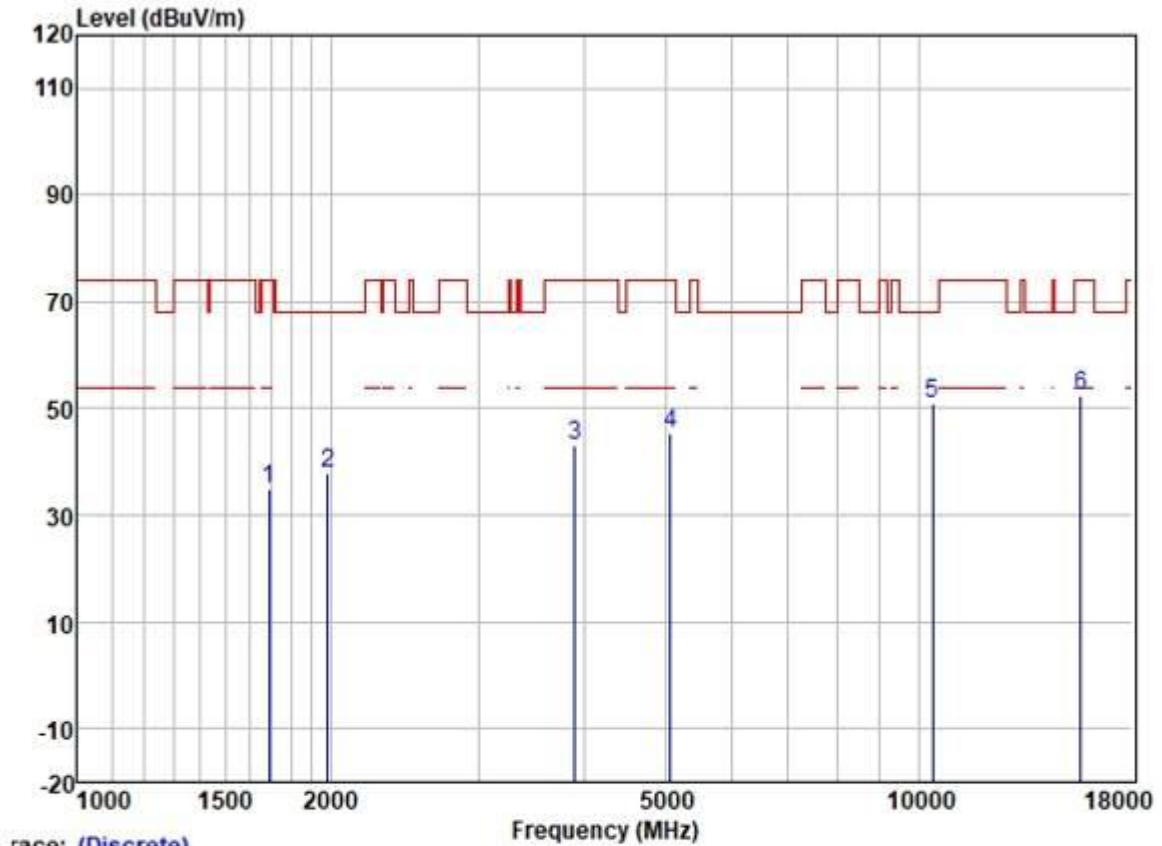
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1107.975  | 46.71 | 24.38   | 2.28  | 38.45  | 34.92  | 74.00  | -39.08    | VERTICAL Peak |
| 2 | 2078.848  | 48.00 | 26.24   | 3.14  | 37.68  | 39.70  | 68.20  | -28.50    | VERTICAL Peak |
| 3 | 4450.137  | 44.91 | 30.75   | 4.88  | 36.81  | 43.73  | 68.20  | -24.47    | VERTICAL Peak |
| 4 | 5321.667  | 45.18 | 31.77   | 6.08  | 36.88  | 46.15  | 68.20  | -22.05    | VERTICAL Peak |
| 5 | 10360.000 | 40.47 | 39.28   | 7.29  | 37.37  | 49.67  | 68.20  | -18.53    | VERTICAL Peak |
| 6 | 15540.000 | 38.21 | 39.05   | 9.88  | 35.39  | 51.75  | 74.00  | -22.25    | VERTICAL Peak |

Test Mode: 13; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



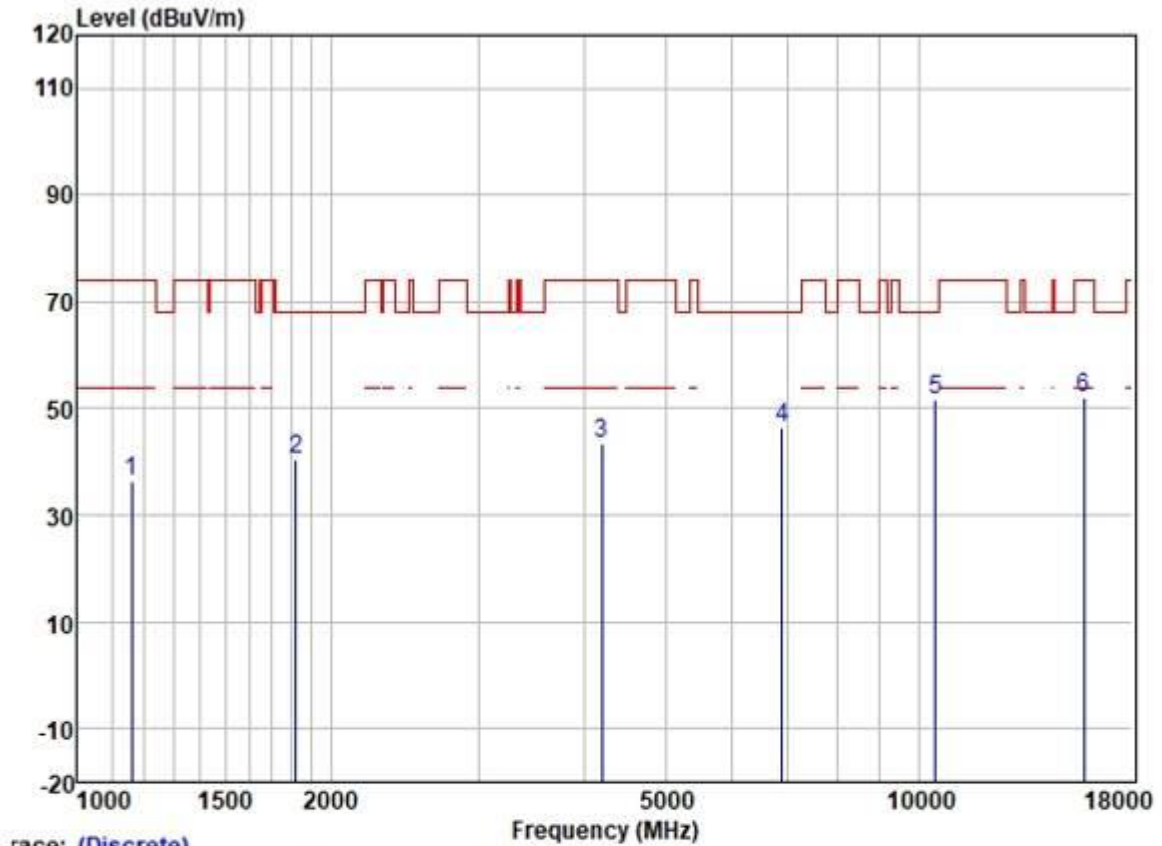
|   |           | Read  | Antenna | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------|---------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level | Factor  | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1514.288  | 46.01 | 25.51   | 2.80  | 38.07  | 36.25  | 74.00  | -37.75 | HORIZONTAL | Peak   |
| 2 | 2129.134  | 46.91 | 26.36   | 3.17  | 37.67  | 38.77  | 68.20  | -29.43 | HORIZONTAL | Peak   |
| 3 | 3625.369  | 46.38 | 29.09   | 4.51  | 36.90  | 43.08  | 74.00  | -30.92 | HORIZONTAL | Peak   |
| 4 | 6421.571  | 42.88 | 33.79   | 5.89  | 36.99  | 45.57  | 68.20  | -22.63 | HORIZONTAL | Peak   |
| 5 | 10400.000 | 42.72 | 39.33   | 7.32  | 37.36  | 52.01  | 68.20  | -16.19 | HORIZONTAL | Peak   |
| 6 | 15600.000 | 38.13 | 38.99   | 9.88  | 35.39  | 51.61  | 74.00  | -22.39 | HORIZONTAL | Peak   |

Test Mode: 13; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



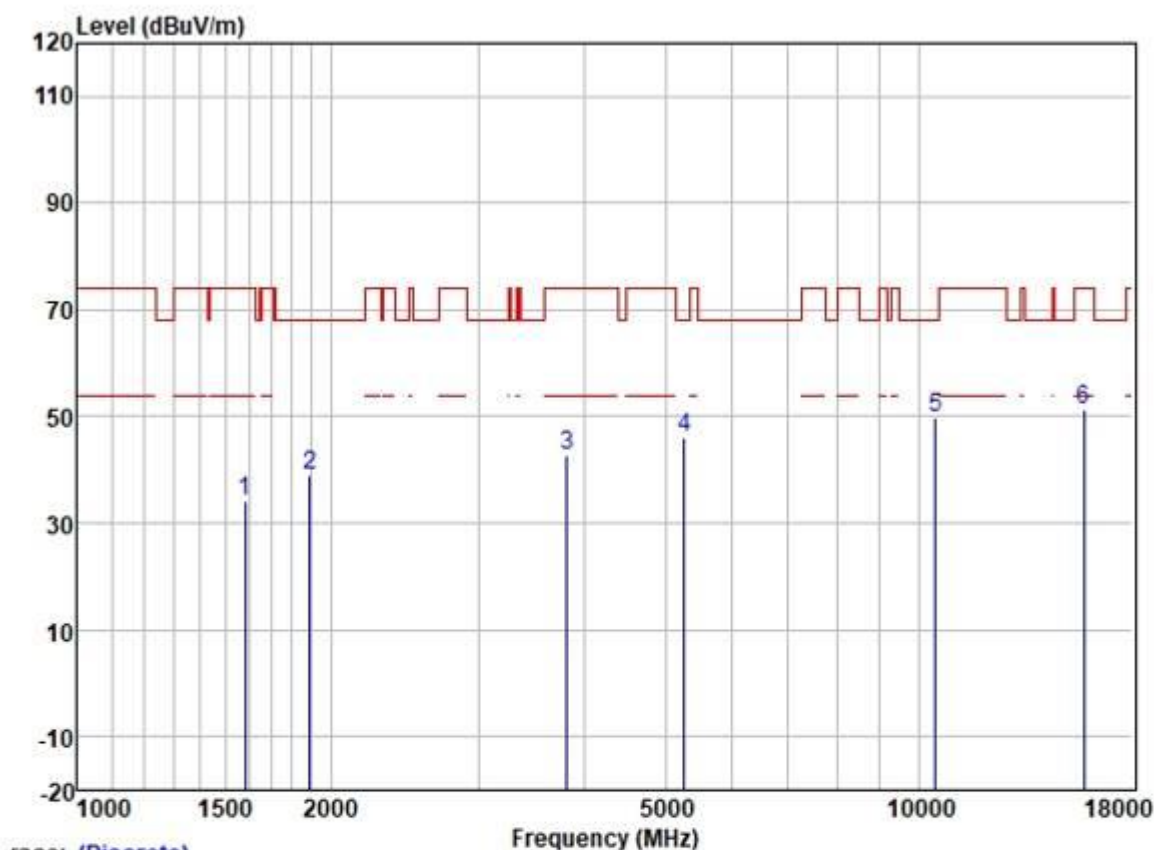
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1688.772  | 44.24 | 25.69   | 2.80  | 37.89  | 34.84  | 74.00  | -39.16    | VERTICAL Peak |
| 2 | 1983.378  | 46.48 | 26.09   | 3.07  | 37.71  | 37.93  | 68.20  | -30.27    | VERTICAL Peak |
| 3 | 3899.645  | 45.61 | 29.69   | 4.60  | 36.82  | 43.08  | 74.00  | -30.92    | VERTICAL Peak |
| 4 | 5071.140  | 44.82 | 31.71   | 5.67  | 36.86  | 45.34  | 74.00  | -28.66    | VERTICAL Peak |
| 5 | 10400.000 | 41.74 | 39.33   | 7.32  | 37.36  | 51.03  | 68.20  | -17.17    | VERTICAL Peak |
| 6 | 15600.000 | 38.91 | 38.99   | 9.88  | 35.39  | 52.39  | 74.00  | -21.61    | VERTICAL Peak |

Test Mode: 13; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



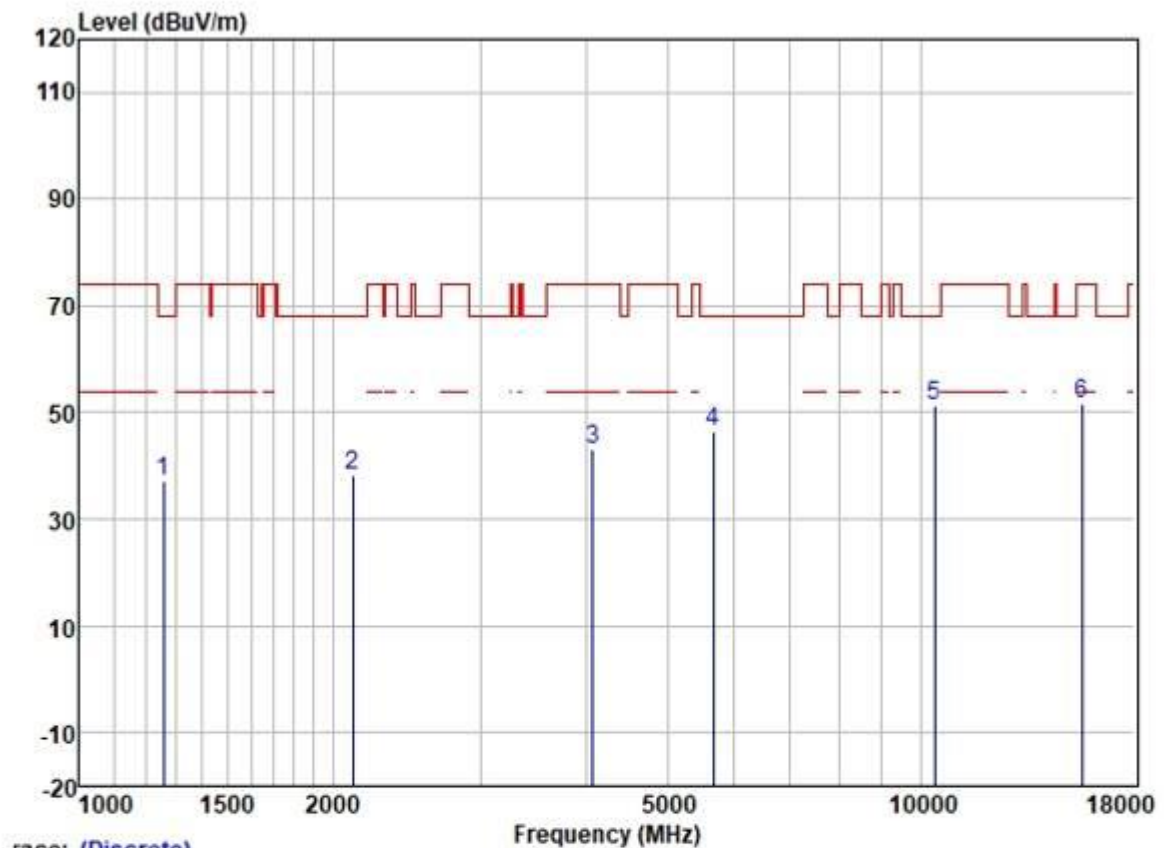
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |                 |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|-----------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark          |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |                 |
| 1 | 1160.467  | 47.92 | 24.52   | 2.40  | 38.42  | 36.42  | 74.00  | -37.58    | HORIZONTAL Peak |
| 2 | 1821.707  | 49.19 | 25.97   | 2.98  | 37.80  | 40.34  | 68.20  | -27.86    | HORIZONTAL Peak |
| 3 | 4205.572  | 45.59 | 30.18   | 4.60  | 36.81  | 43.56  | 74.00  | -30.44    | HORIZONTAL Peak |
| 4 | 6892.567  | 42.93 | 34.85   | 5.81  | 37.18  | 46.41  | 68.20  | -21.79    | HORIZONTAL Peak |
| 5 | 10480.000 | 42.06 | 39.46   | 7.40  | 37.36  | 51.56  | 68.20  | -16.64    | HORIZONTAL Peak |
| 6 | 15720.000 | 38.90 | 38.78   | 9.87  | 35.39  | 52.16  | 74.00  | -21.84    | HORIZONTAL Peak |

Test Mode: 13; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



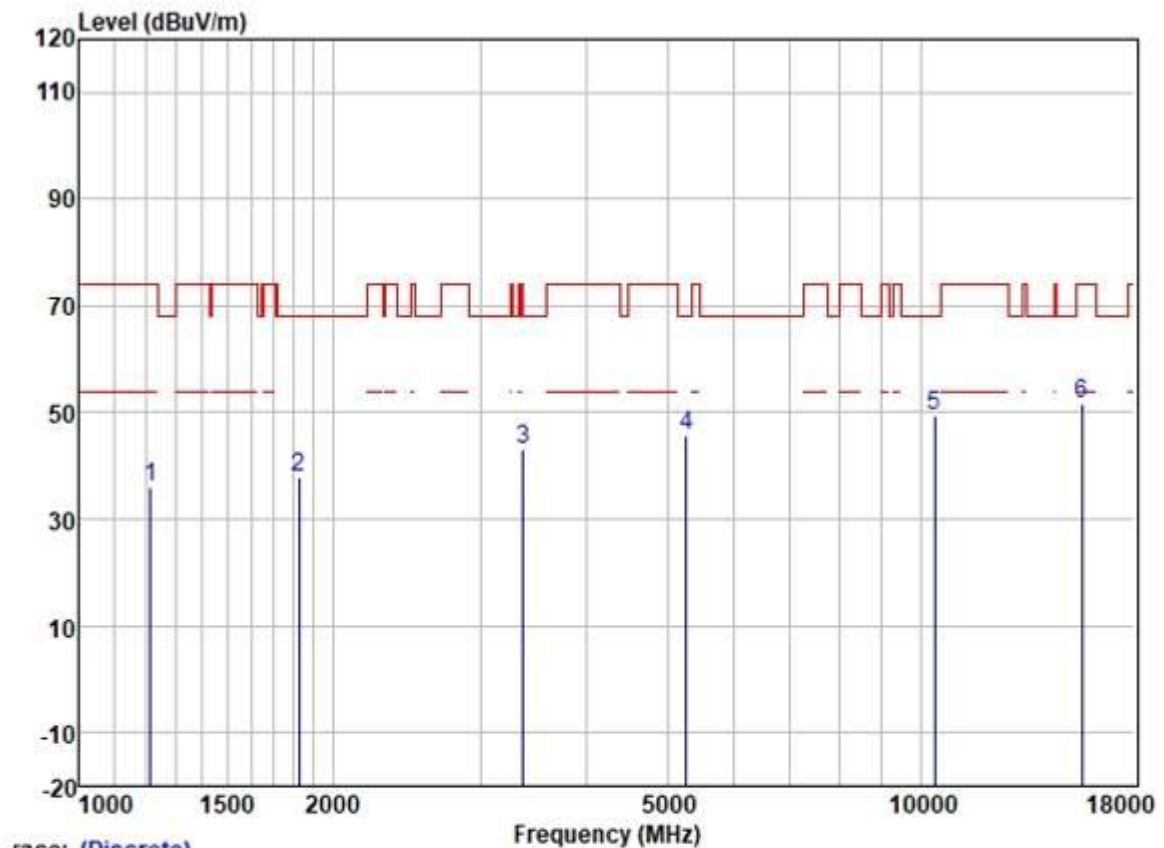
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1581.322  | 43.94 | 25.56   | 2.80  | 38.00  | 34.30  | 74.00  | -39.70    | VERTICAL Peak |
| 2 | 1889.317  | 47.64 | 26.03   | 2.91  | 37.75  | 38.83  | 68.20  | -29.37    | VERTICAL Peak |
| 3 | 3818.501  | 45.39 | 29.57   | 4.60  | 36.84  | 42.72  | 74.00  | -31.28    | VERTICAL Peak |
| 4 | 5273.233  | 45.41 | 31.75   | 5.80  | 36.87  | 46.09  | 68.20  | -22.11    | VERTICAL Peak |
| 5 | 10480.000 | 40.27 | 39.46   | 7.40  | 37.36  | 49.77  | 68.20  | -18.43    | VERTICAL Peak |
| 6 | 15720.000 | 38.18 | 38.78   | 9.87  | 35.39  | 51.44  | 74.00  | -22.56    | VERTICAL Peak |

Test Mode: 13; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



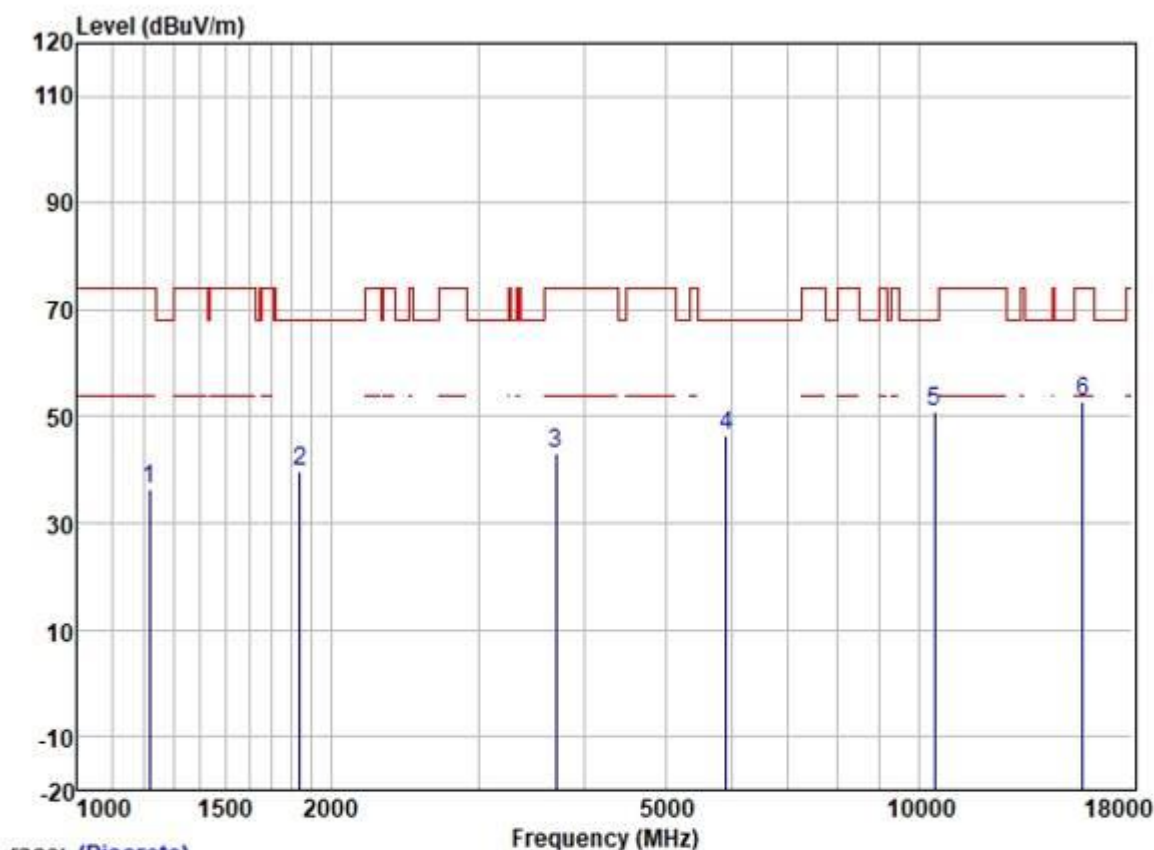
|   | Freq      | ReadAntenna<br>Level Factor | Cable Preamp<br>Loss Factor | Level | Limit<br>Line | Over<br>Limit | Pol/Phase | Remark |                 |
|---|-----------|-----------------------------|-----------------------------|-------|---------------|---------------|-----------|--------|-----------------|
|   | MHz       | dBuV                        | dB/m                        | dB    | dB            | dBuV/m        | dBuV/m    | dB     |                 |
| 1 | 1260.098  | 47.96                       | 25.07                       | 2.40  | 38.35         | 37.08         | 68.20     | -31.12 | HORIZONTAL Peak |
| 2 | 2116.000  | 46.33                       | 26.32                       | 3.16  | 37.67         | 38.14         | 68.20     | -30.06 | HORIZONTAL Peak |
| 3 | 4073.173  | 45.52                       | 29.90                       | 4.60  | 36.80         | 43.22         | 74.00     | -30.78 | HORIZONTAL Peak |
| 4 | 5669.129  | 44.83                       | 31.97                       | 6.37  | 36.89         | 46.28         | 68.20     | -21.92 | HORIZONTAL Peak |
| 5 | 10380.000 | 42.11                       | 39.33                       | 7.32  | 37.37         | 51.39         | 68.20     | -16.81 | HORIZONTAL Peak |
| 6 | 15570.000 | 38.36                       | 38.99                       | 9.88  | 35.39         | 51.84         | 74.00     | -22.16 | HORIZONTAL Peak |

Test Mode: 13; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



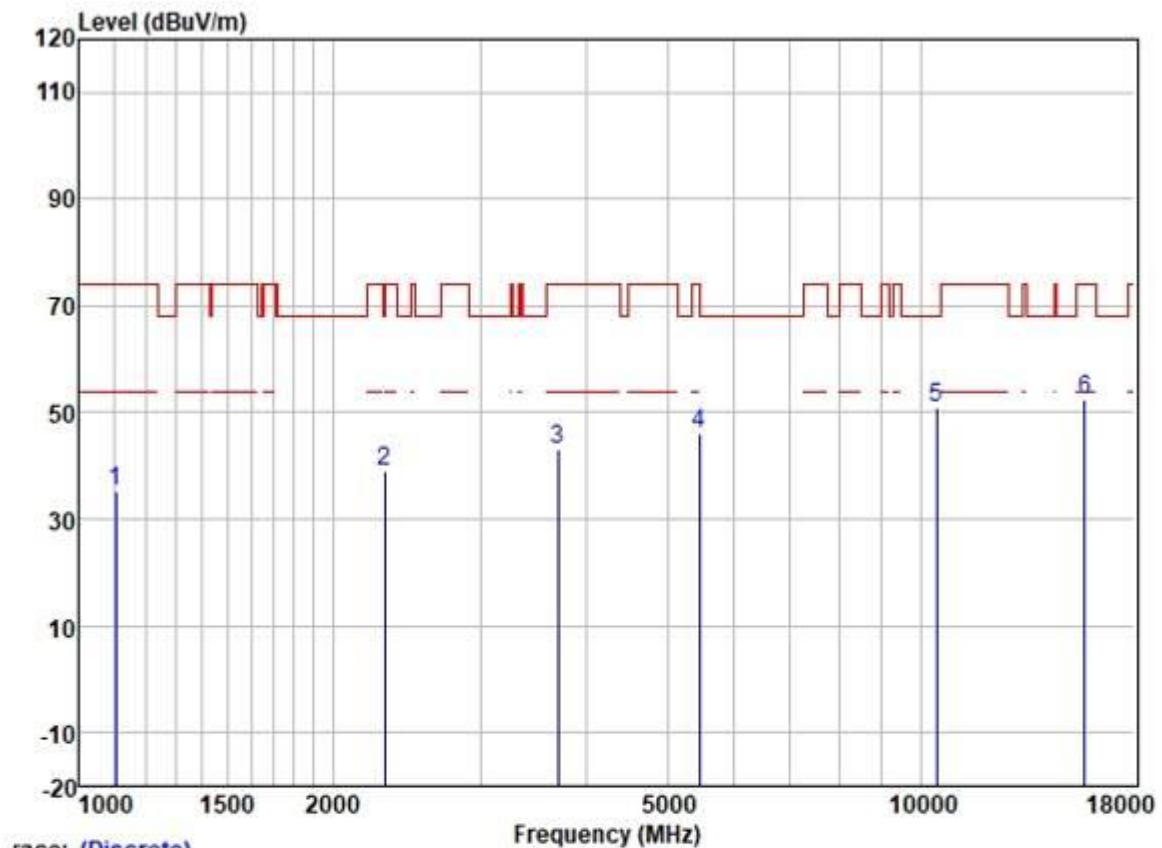
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1216.052  | 47.31       | 24.79  | 2.32  | 38.37  | 36.05  | 74.00  | -37.95 | VERTICAL  | Peak   |
| 2 | 1823.473  | 46.73       | 25.97  | 2.98  | 37.80  | 37.88  | 68.20  | -30.32 | VERTICAL  | Peak   |
| 3 | 3366.449  | 47.15       | 28.82  | 4.09  | 36.99  | 43.07  | 68.20  | -25.13 | VERTICAL  | Peak   |
| 4 | 5269.698  | 45.16       | 31.75  | 5.80  | 36.87  | 45.84  | 68.20  | -22.36 | VERTICAL  | Peak   |
| 5 | 10380.000 | 40.15       | 39.33  | 7.32  | 37.37  | 49.43  | 68.20  | -18.77 | VERTICAL  | Peak   |
| 6 | 15570.000 | 38.31       | 38.99  | 9.88  | 35.39  | 51.79  | 74.00  | -22.21 | VERTICAL  | Peak   |

Test Mode: 13; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



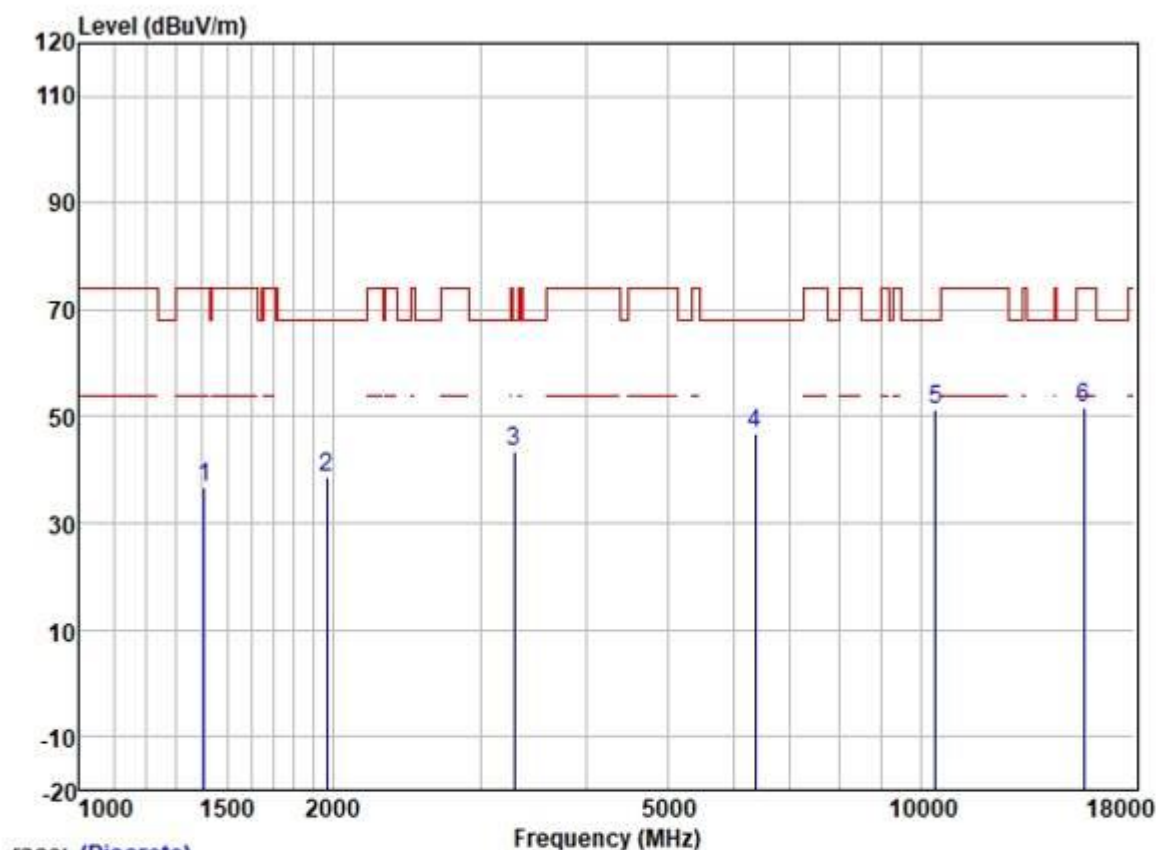
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1217.593  | 47.78       | 24.79  | 2.32  | 38.37  | 36.52  | 74.00  | -37.48 | HORIZONTAL | Peak   |
| 2 | 1836.757  | 48.45       | 25.98  | 2.96  | 37.80  | 39.59  | 68.20  | -28.61 | HORIZONTAL | Peak   |
| 3 | 3705.066  | 46.14       | 29.25  | 4.56  | 36.88  | 43.07  | 74.00  | -30.93 | HORIZONTAL | Peak   |
| 4 | 5909.412  | 45.08       | 32.33  | 5.95  | 36.90  | 46.46  | 68.20  | -21.74 | HORIZONTAL | Peak   |
| 5 | 10460.000 | 41.34       | 39.42  | 7.37  | 37.36  | 50.77  | 68.20  | -17.43 | HORIZONTAL | Peak   |
| 6 | 15690.000 | 39.36       | 38.86  | 9.87  | 35.39  | 52.70  | 74.00  | -21.30 | HORIZONTAL | Peak   |

Test Mode: 13; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



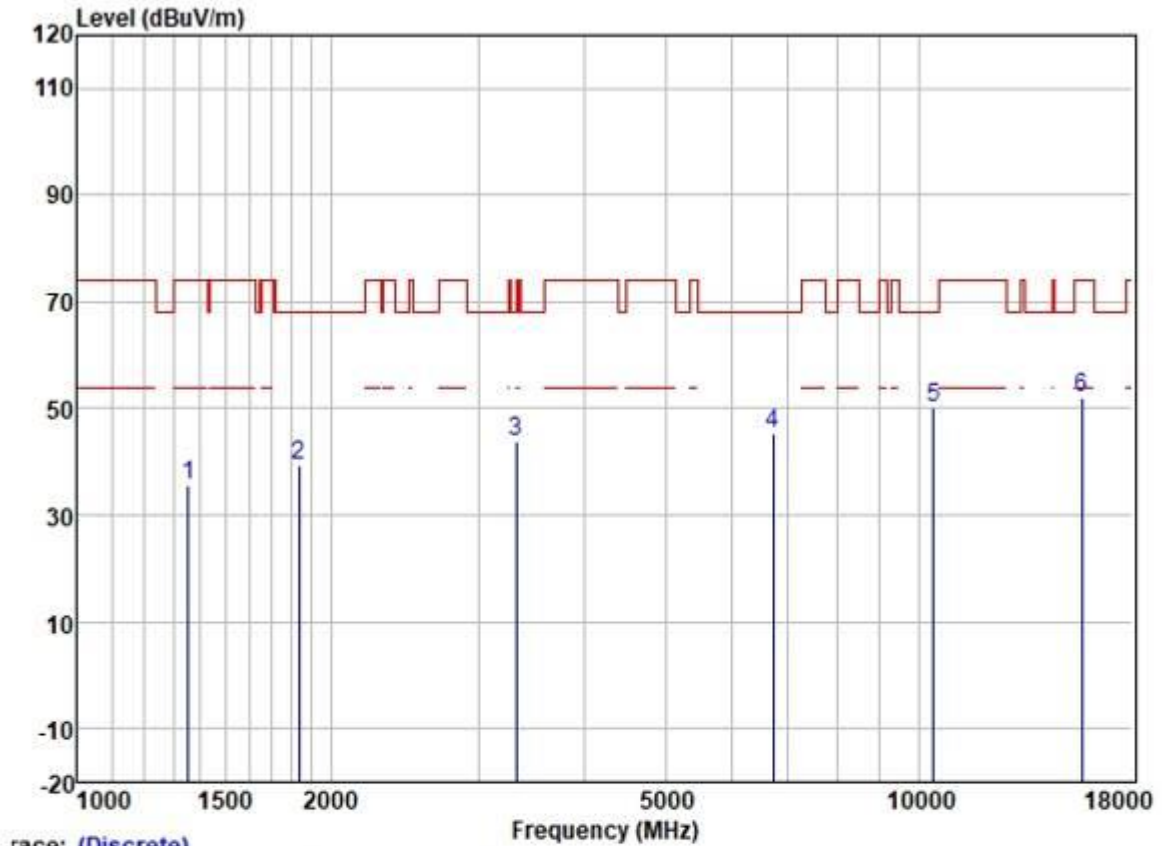
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1105.953  | 47.22 | 24.38   | 2.28  | 38.45  | 35.43  | 74.00  | -38.57    | VERTICAL Peak |
| 2 | 2304.189  | 46.16 | 27.13   | 3.31  | 37.62  | 38.98  | 68.20  | -29.22    | VERTICAL Peak |
| 3 | 3709.439  | 46.02 | 29.28   | 4.56  | 36.88  | 42.98  | 74.00  | -31.02    | VERTICAL Peak |
| 4 | 5465.002  | 44.93 | 31.80   | 6.31  | 36.88  | 46.16  | 68.20  | -22.04    | VERTICAL Peak |
| 5 | 10460.000 | 41.68 | 39.42   | 7.37  | 37.36  | 51.11  | 68.20  | -17.09    | VERTICAL Peak |
| 6 | 15690.000 | 39.11 | 38.86   | 9.87  | 35.39  | 52.45  | 74.00  | -21.55    | VERTICAL Peak |

Test Mode: 13; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



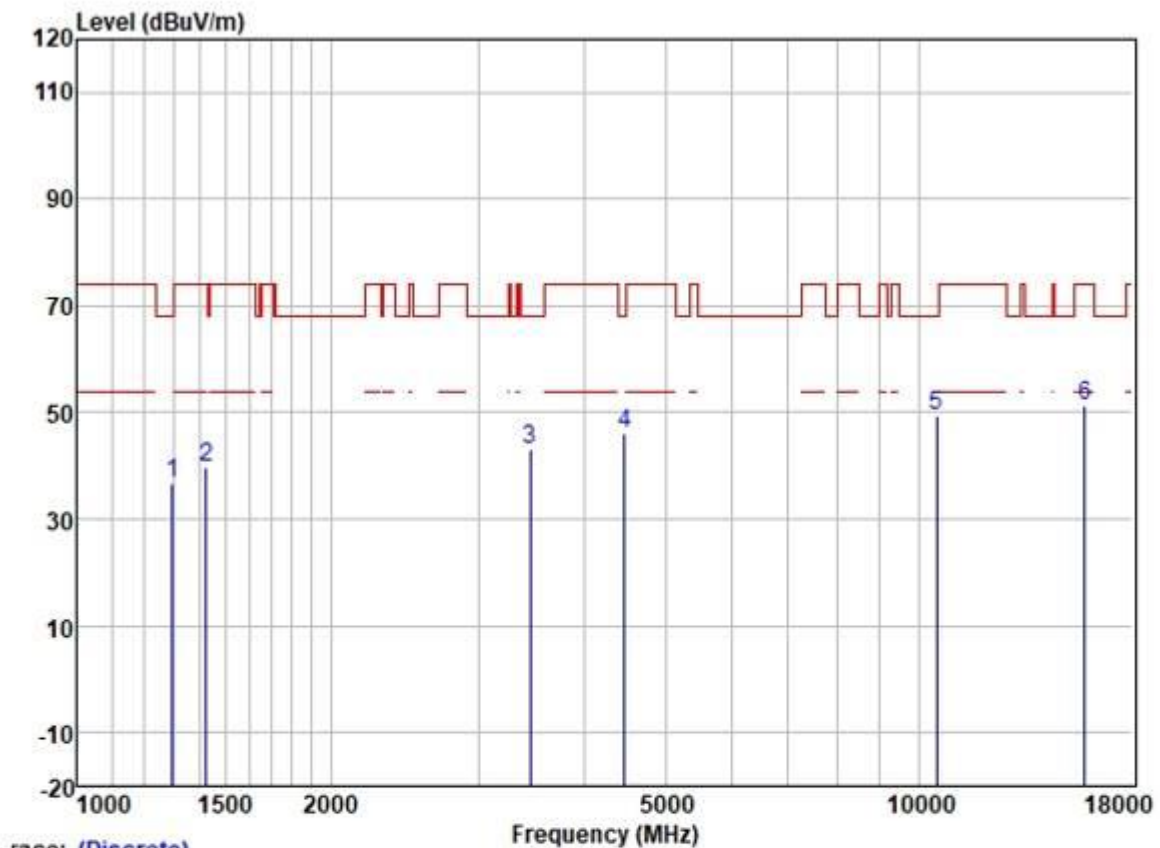
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |                 |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|-----------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark          |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |                 |
| 1 | 1407.578  | 46.81 | 25.40   | 2.61  | 38.22  | 36.60  | 74.00  | -37.40    | HORIZONTAL Peak |
| 2 | 1971.030  | 47.02 | 26.09   | 3.05  | 37.71  | 38.45  | 68.20  | -29.75    | HORIZONTAL Peak |
| 3 | 3289.276  | 47.82 | 28.74   | 4.05  | 37.03  | 43.58  | 68.20  | -24.62    | HORIZONTAL Peak |
| 4 | 6360.186  | 44.15 | 33.63   | 5.92  | 36.97  | 46.73  | 68.20  | -21.47    | HORIZONTAL Peak |
| 5 | 10420.000 | 41.76 | 39.38   | 7.35  | 37.36  | 51.13  | 68.20  | -17.07    | HORIZONTAL Peak |
| 6 | 15630.000 | 38.11 | 38.92   | 9.87  | 35.39  | 51.51  | 74.00  | -22.49    | HORIZONTAL Peak |

Test Mode: 13; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



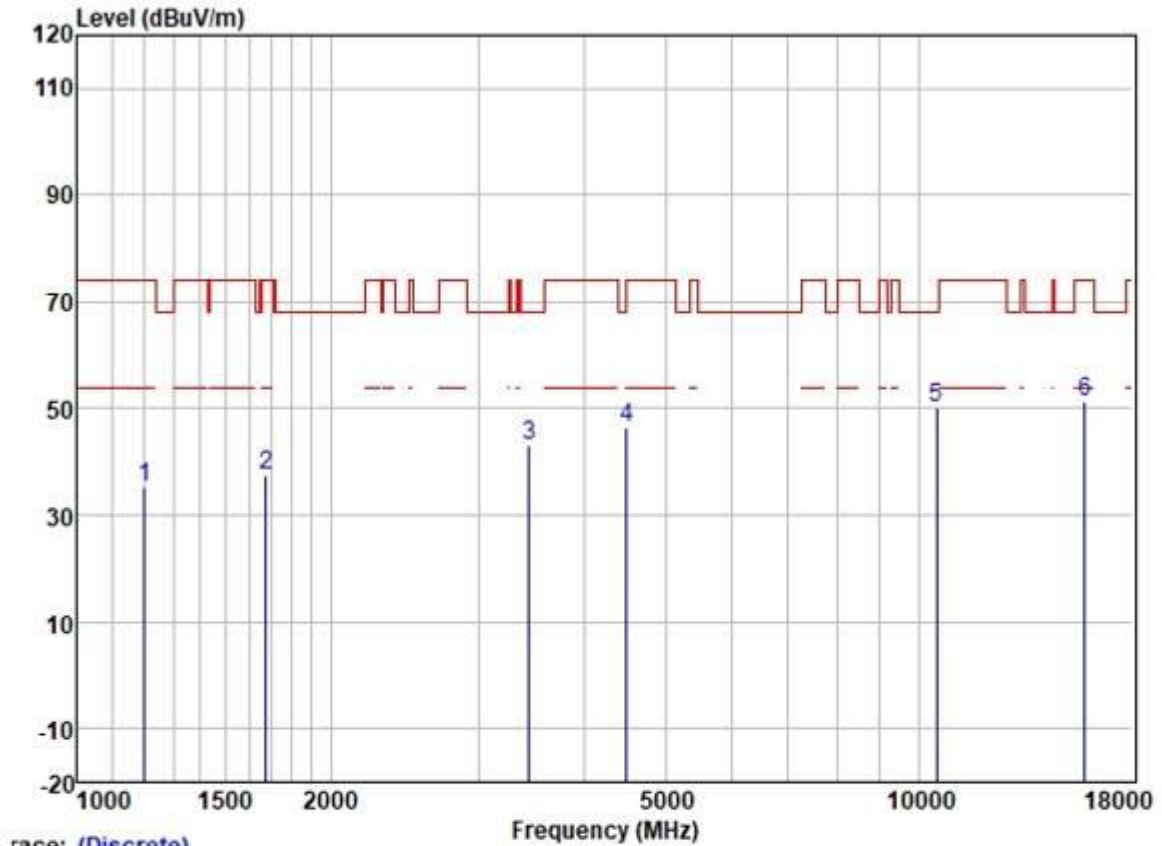
|   |           | Read  | Antenna | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------|---------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level | Factor  | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1354.962  | 46.09 | 25.32   | 2.60  | 38.27  | 35.74  | 74.00  | -38.26 | VERTICAL  | Peak   |
| 2 | 1833.226  | 48.07 | 25.98   | 2.96  | 37.80  | 39.21  | 68.20  | -28.99 | VERTICAL  | Peak   |
| 3 | 3324.260  | 48.11 | 28.78   | 4.07  | 37.02  | 43.94  | 68.20  | -24.26 | VERTICAL  | Peak   |
| 4 | 6725.087  | 42.20 | 34.44   | 5.83  | 37.09  | 45.38  | 68.20  | -22.82 | VERTICAL  | Peak   |
| 5 | 10420.000 | 40.74 | 39.38   | 7.35  | 37.36  | 50.11  | 68.20  | -18.09 | VERTICAL  | Peak   |
| 6 | 15630.000 | 38.58 | 38.92   | 9.87  | 35.39  | 51.98  | 74.00  | -22.02 | VERTICAL  | Peak   |

Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



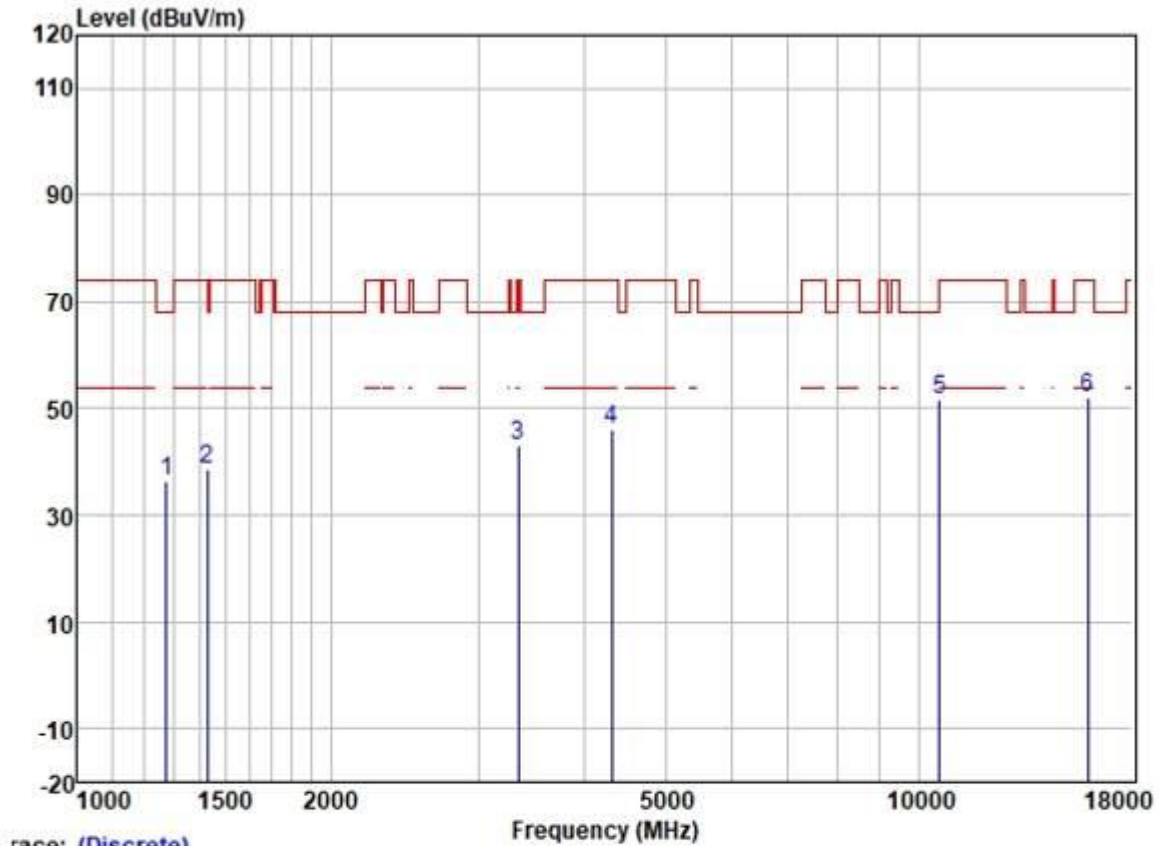
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |                 |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|-----------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark          |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |                 |
| 1 | 1297.103  | 47.19 | 25.19   | 2.58  | 38.31  | 36.65  | 68.20  | -31.55    | HORIZONTAL Peak |
| 2 | 1422.798  | 49.70 | 25.42   | 2.64  | 38.20  | 39.56  | 74.00  | -34.44    | HORIZONTAL Peak |
| 3 | 3455.508  | 47.15 | 28.88   | 4.20  | 36.96  | 43.27  | 68.20  | -24.93    | HORIZONTAL Peak |
| 4 | 4469.214  | 47.18 | 30.77   | 4.93  | 36.81  | 46.07  | 68.20  | -22.13    | HORIZONTAL Peak |
| 5 | 10520.000 | 40.00 | 39.50   | 7.42  | 37.35  | 49.57  | 68.20  | -18.63    | HORIZONTAL Peak |
| 6 | 15780.000 | 38.26 | 38.70   | 9.86  | 35.39  | 51.43  | 74.00  | -22.57    | HORIZONTAL Peak |

Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



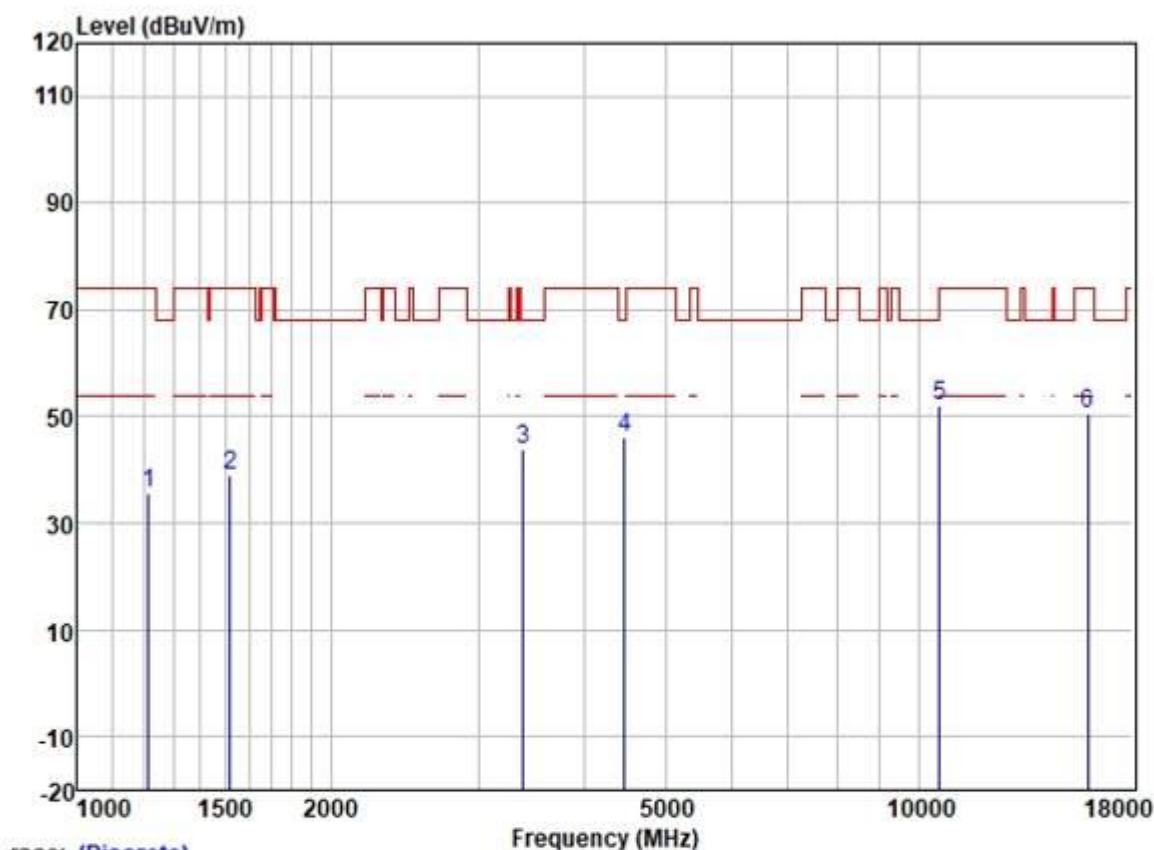
|   | Freq      | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |           |        |
|---|-----------|-------------|--------|--------|--------|--------|--------|--------|-----------|--------|
|   |           | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1203.199  | 46.66       | 24.70  | 2.34   | 38.39  | 35.31  | 74.00  | -38.69 | VERTICAL  | Peak   |
| 2 | 1677.621  | 47.02       | 25.68  | 2.80   | 37.91  | 37.59  | 74.00  | -36.41 | VERTICAL  | Peak   |
| 3 | 3445.535  | 47.06       | 28.87  | 4.18   | 36.96  | 43.15  | 68.20  | -25.05 | VERTICAL  | Peak   |
| 4 | 4495.125  | 47.45       | 30.80  | 5.05   | 36.82  | 46.48  | 68.20  | -21.72 | VERTICAL  | Peak   |
| 5 | 10520.000 | 40.64       | 39.50  | 7.42   | 37.35  | 50.21  | 68.20  | -17.99 | VERTICAL  | Peak   |
| 6 | 15780.000 | 37.98       | 38.70  | 9.86   | 35.39  | 51.15  | 74.00  | -22.85 | VERTICAL  | Peak   |

Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



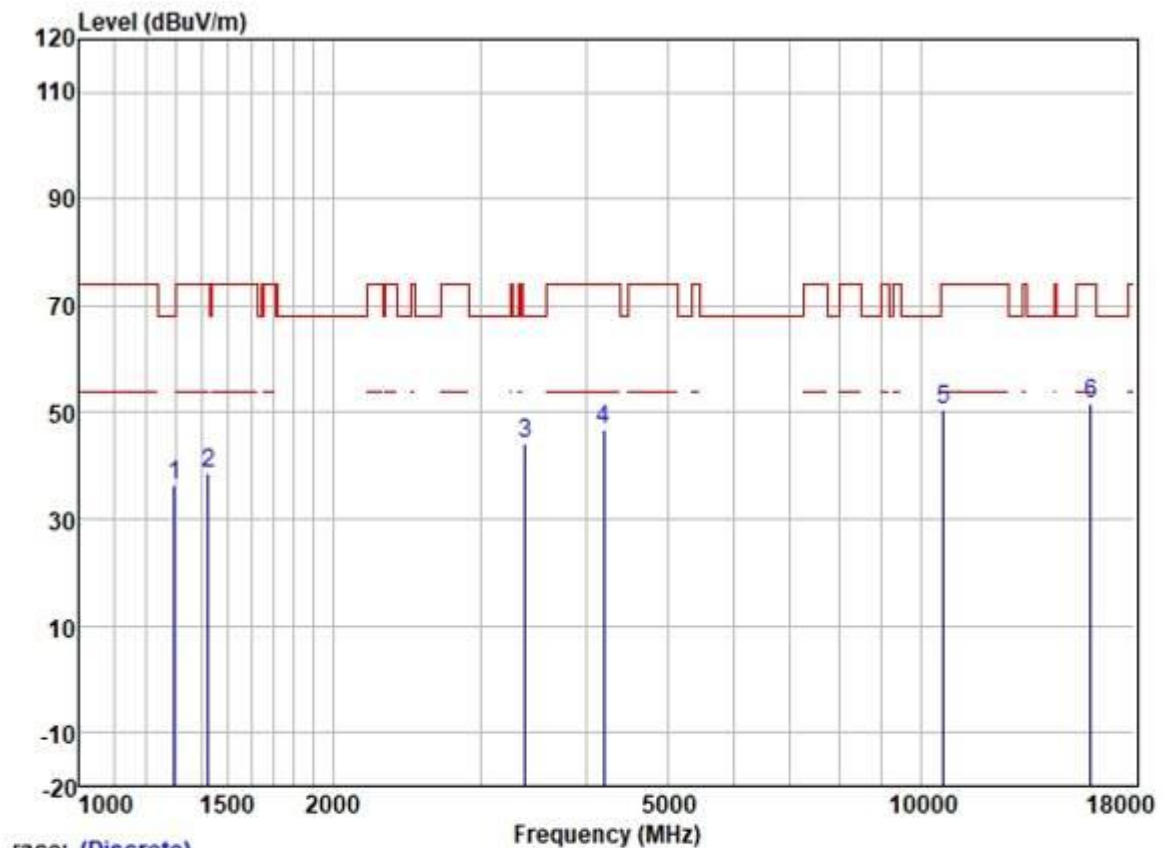
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |                 |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|-----------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark          |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |                 |
| 1 | 1274.802  | 47.26 | 25.12   | 2.48  | 38.33  | 36.53  | 68.20  | -31.67    | HORIZONTAL Peak |
| 2 | 1426.916  | 48.63 | 25.43   | 2.65  | 38.20  | 38.51  | 74.00  | -35.49    | HORIZONTAL Peak |
| 3 | 3337.710  | 47.22 | 28.79   | 4.08  | 37.01  | 43.08  | 74.00  | -30.92    | HORIZONTAL Peak |
| 4 | 4316.859  | 47.61 | 30.51   | 4.66  | 36.81  | 45.97  | 74.00  | -28.03    | HORIZONTAL Peak |
| 5 | 10600.000 | 42.00 | 39.59   | 7.46  | 37.34  | 51.71  | 68.20  | -16.49    | HORIZONTAL Peak |
| 6 | 15900.000 | 39.14 | 38.44   | 9.86  | 35.40  | 52.04  | 74.00  | -21.96    | HORIZONTAL Peak |

Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



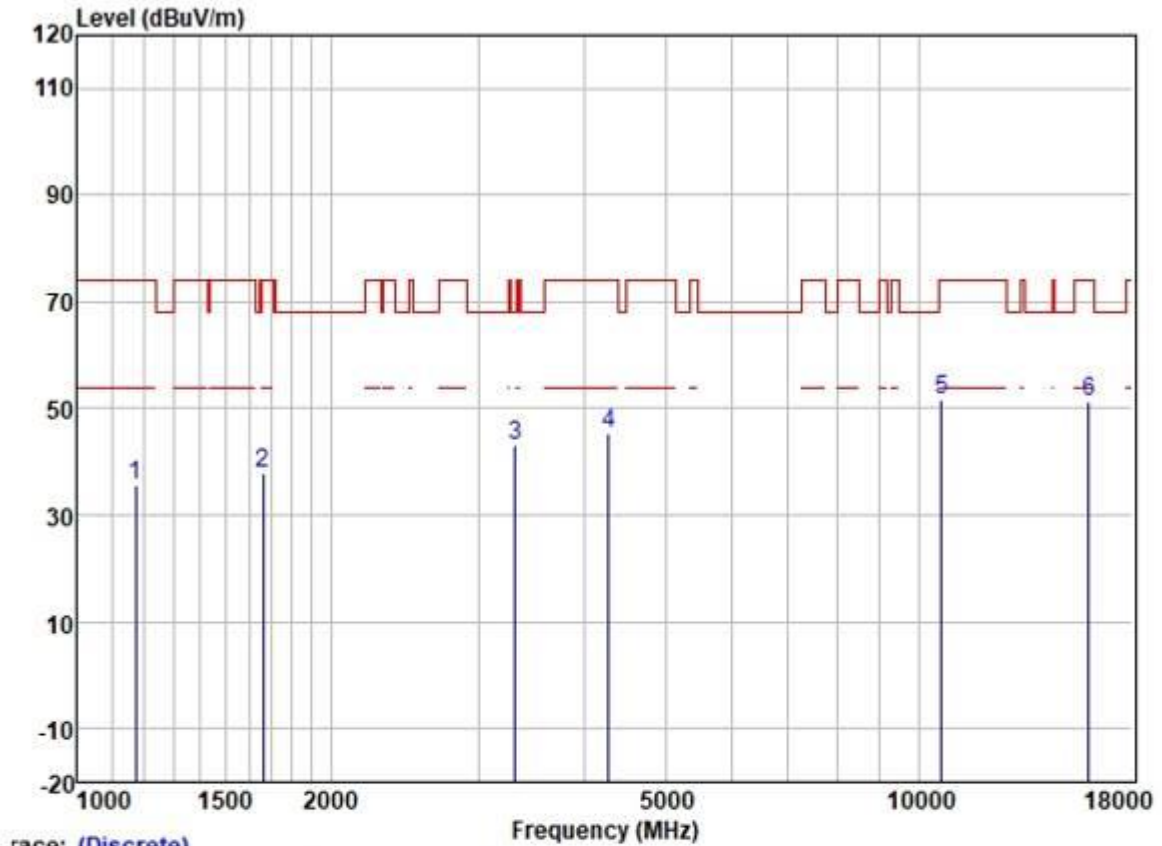
|   |           | Read  | Antenna | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------|---------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level | Factor  | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1213.677  | 46.83 | 24.77   | 2.32  | 38.37  | 35.55  | 74.00  | -38.45 | VERTICAL  | Peak   |
| 2 | 1520.598  | 48.63 | 25.51   | 2.80  | 38.07  | 38.87  | 74.00  | -35.13 | VERTICAL  | Peak   |
| 3 | 3386.297  | 47.77 | 28.83   | 4.10  | 36.99  | 43.71  | 68.20  | -24.49 | VERTICAL  | Peak   |
| 4 | 4469.214  | 47.28 | 30.77   | 4.93  | 36.81  | 46.17  | 68.20  | -22.03 | VERTICAL  | Peak   |
| 5 | 10600.000 | 42.40 | 39.59   | 7.46  | 37.34  | 52.11  | 68.20  | -16.09 | VERTICAL  | Peak   |
| 6 | 15900.000 | 37.64 | 38.44   | 9.86  | 35.40  | 50.54  | 74.00  | -23.46 | VERTICAL  | Peak   |

Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |                 |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|-----------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark          |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |                 |
| 1 | 1297.103  | 46.84 | 25.19   | 2.58  | 38.31  | 36.30  | 68.20  | -31.90    | HORIZONTAL Peak |
| 2 | 1422.798  | 48.65 | 25.42   | 2.64  | 38.20  | 38.51  | 74.00  | -35.49    | HORIZONTAL Peak |
| 3 | 3386.297  | 48.16 | 28.83   | 4.10  | 36.99  | 44.10  | 68.20  | -24.10    | HORIZONTAL Peak |
| 4 | 4206.011  | 48.91 | 30.18   | 4.60  | 36.81  | 46.88  | 74.00  | -27.12    | HORIZONTAL Peak |
| 5 | 10640.000 | 40.87 | 39.63   | 7.48  | 37.33  | 50.65  | 74.00  | -23.35    | HORIZONTAL Peak |
| 6 | 15960.000 | 38.69 | 38.37   | 9.85  | 35.40  | 51.51  | 74.00  | -22.49    | HORIZONTAL Peak |

Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



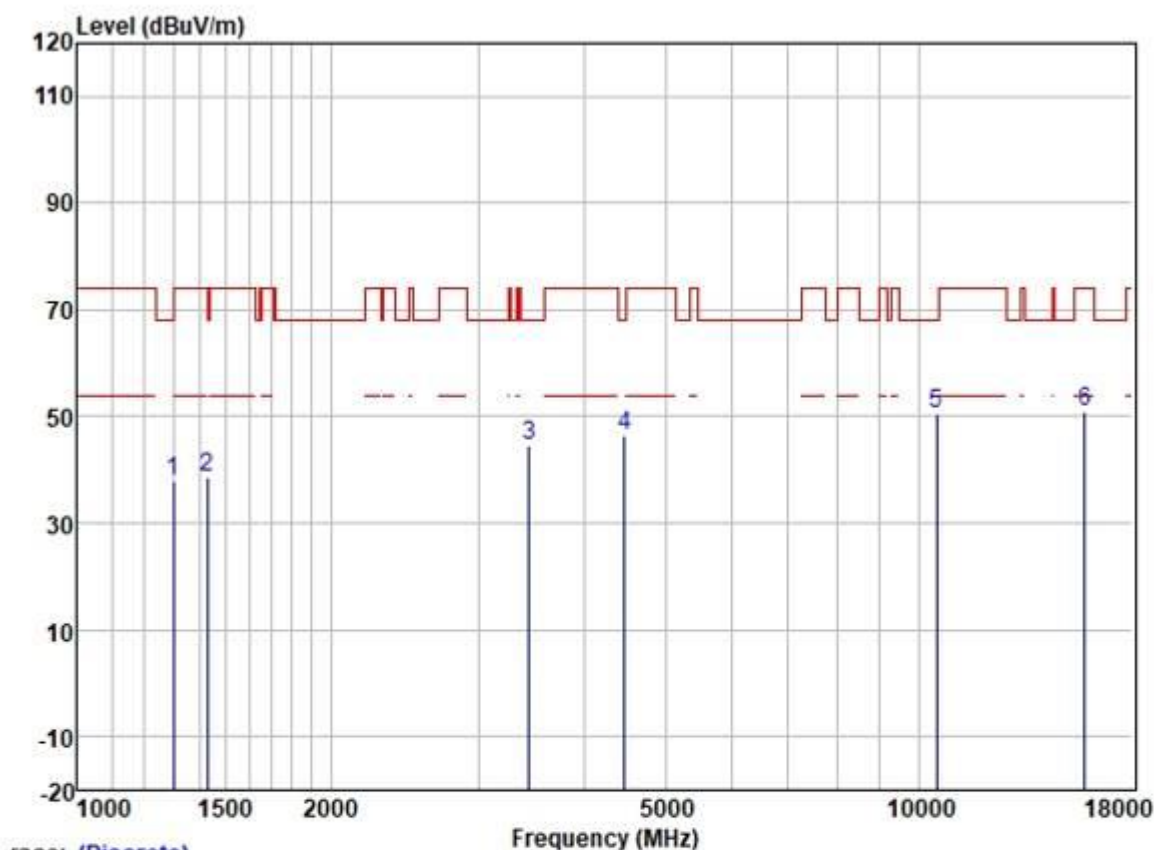
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1172.303  | 47.19 | 24.56   | 2.39  | 38.40  | 35.74  | 74.00  | -38.26    | VERTICAL Peak |
| 2 | 1663.137  | 47.41 | 25.65   | 2.80  | 37.91  | 37.95  | 74.00  | -36.05    | VERTICAL Peak |
| 3 | 3318.471  | 47.41 | 28.77   | 4.07  | 37.02  | 43.23  | 68.20  | -24.97    | VERTICAL Peak |
| 4 | 4279.589  | 47.19 | 30.42   | 4.63  | 36.81  | 45.43  | 74.00  | -28.57    | VERTICAL Peak |
| 5 | 10640.000 | 41.78 | 39.63   | 7.48  | 37.33  | 51.56  | 74.00  | -22.44    | VERTICAL Peak |
| 6 | 15960.000 | 38.32 | 38.37   | 9.85  | 35.40  | 51.14  | 74.00  | -22.86    | VERTICAL Peak |



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.QQCcheck@sgs.com

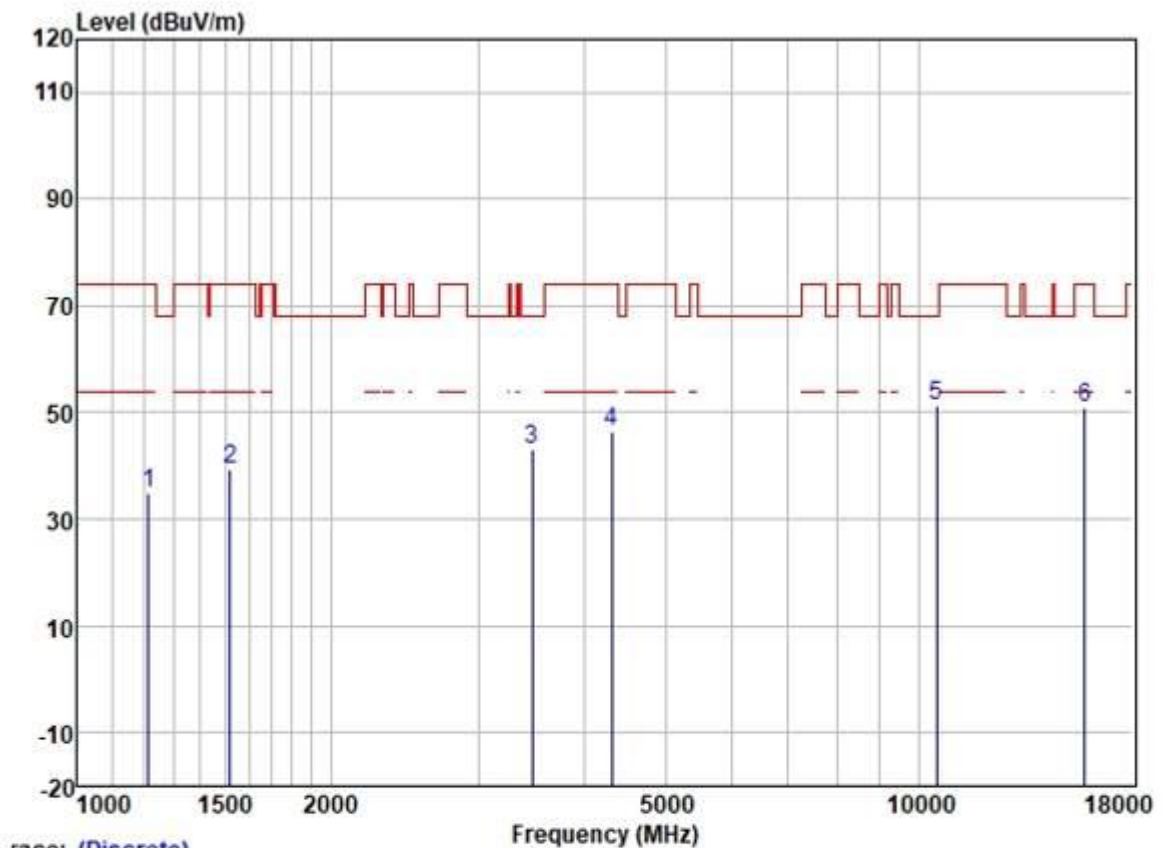
Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



race: (Discrete)

|   | Freq      | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |            |        |
|---|-----------|-------------|--------|--------|--------|--------|--------|--------|------------|--------|
|   |           | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1300.858  | 48.23       | 25.20  | 2.60   | 38.31  | 37.72  | 74.00  | -36.28 | HORIZONTAL | Peak   |
| 2 | 1426.916  | 48.65       | 25.43  | 2.65   | 38.20  | 38.53  | 74.00  | -35.47 | HORIZONTAL | Peak   |
| 3 | 3445.535  | 48.46       | 28.87  | 4.18   | 36.96  | 44.55  | 68.20  | -23.65 | HORIZONTAL | Peak   |
| 4 | 4469.214  | 47.67       | 30.77  | 4.93   | 36.81  | 46.56  | 68.20  | -21.64 | HORIZONTAL | Peak   |
| 5 | 10520.000 | 41.00       | 39.50  | 7.42   | 37.35  | 50.57  | 68.20  | -17.63 | HORIZONTAL | Peak   |
| 6 | 15780.000 | 37.79       | 38.70  | 9.86   | 35.39  | 50.96  | 74.00  | -23.04 | HORIZONTAL | Peak   |

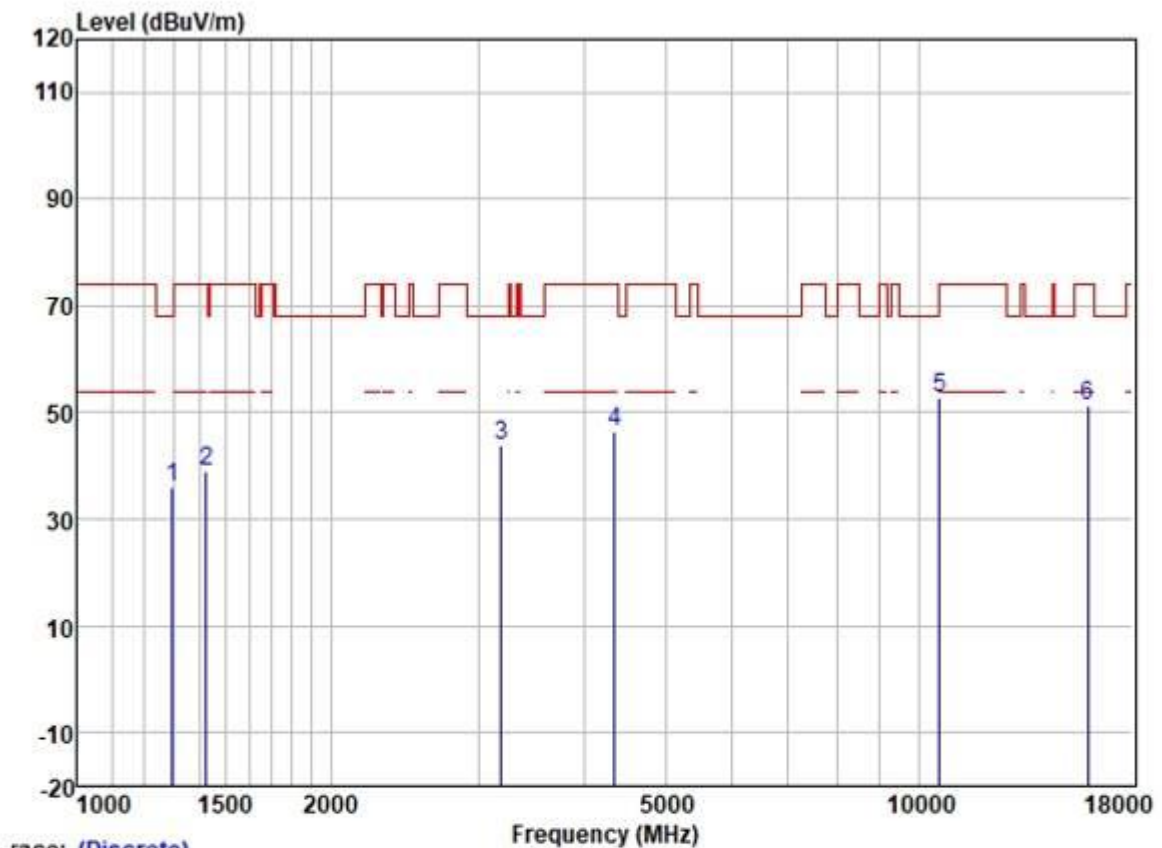
Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

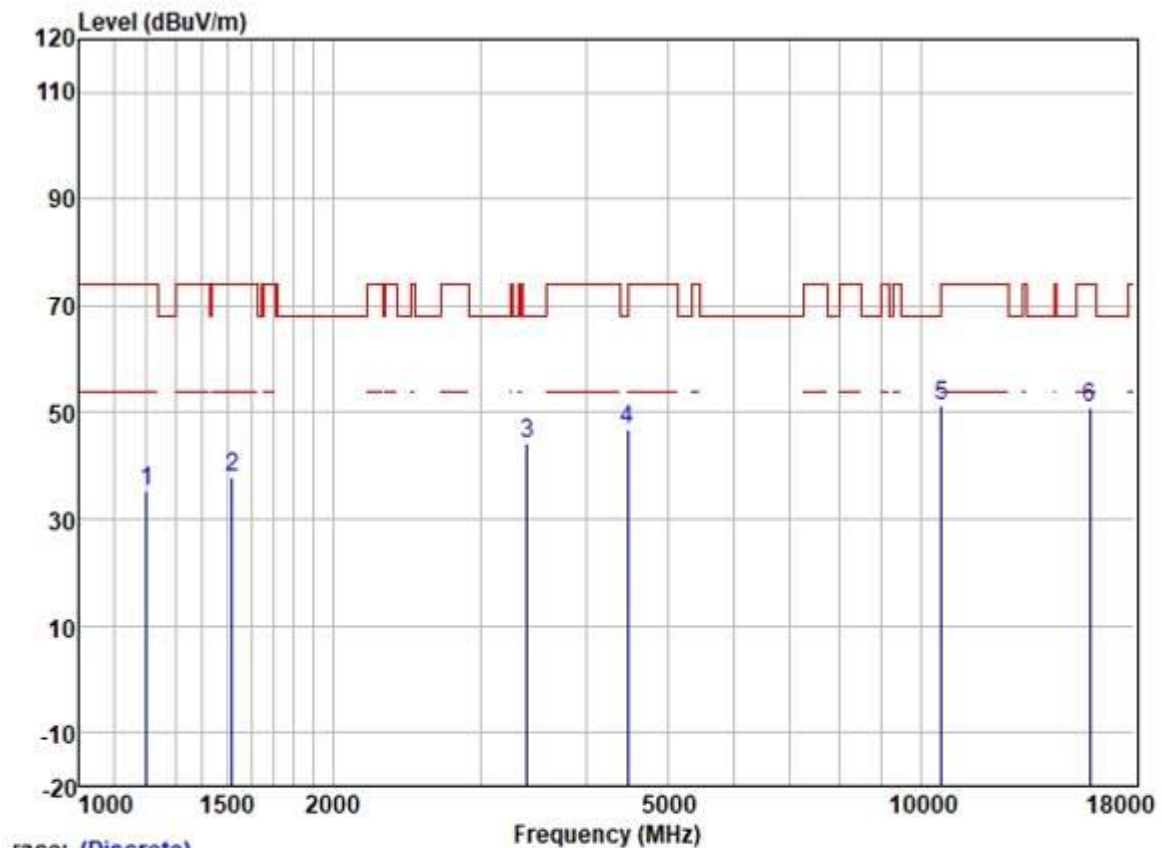
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1213.677  | 46.30 | 24.77   | 2.32  | 38.37  | 35.02  | 74.00  | -38.98    | VERTICAL Peak |
| 2 | 1520.598  | 49.25 | 25.51   | 2.80  | 38.07  | 39.49  | 74.00  | -34.51    | VERTICAL Peak |
| 3 | 3475.541  | 46.81 | 28.89   | 4.25  | 36.95  | 43.00  | 68.20  | -25.20    | VERTICAL Peak |
| 4 | 4316.859  | 48.20 | 30.51   | 4.66  | 36.81  | 46.56  | 74.00  | -27.44    | VERTICAL Peak |
| 5 | 10520.000 | 41.91 | 39.50   | 7.42  | 37.35  | 51.48  | 68.20  | -16.72    | VERTICAL Peak |
| 6 | 15780.000 | 37.82 | 38.70   | 9.86  | 35.39  | 50.99  | 74.00  | -23.01    | VERTICAL Peak |

Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



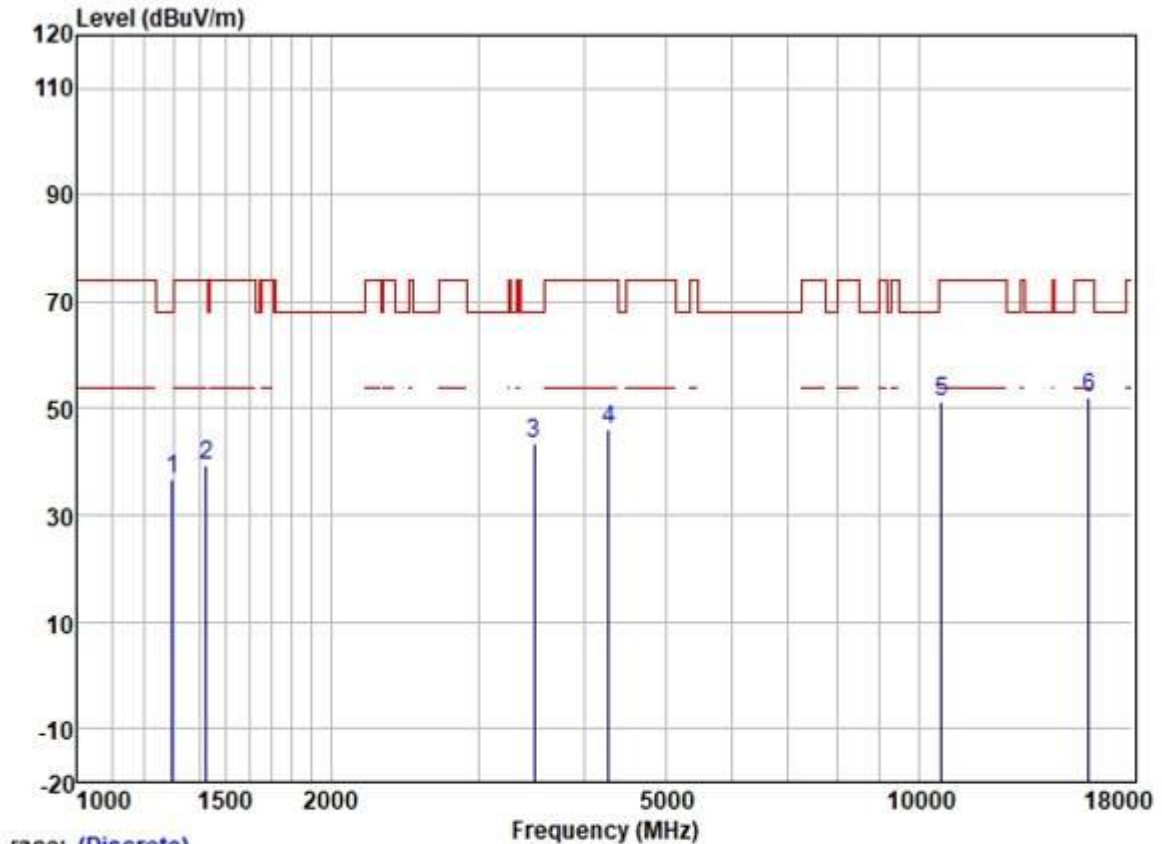
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1297.103  | 46.52       | 25.19  | 2.58  | 38.31  | 35.98  | 68.20  | -32.22 | HORIZONTAL | Peak   |
| 2 | 1422.798  | 49.23       | 25.42  | 2.64  | 38.20  | 39.09  | 74.00  | -34.91 | HORIZONTAL | Peak   |
| 3 | 3186.869  | 48.49       | 28.57  | 3.99  | 37.10  | 43.95  | 68.20  | -24.25 | HORIZONTAL | Peak   |
| 4 | 4354.454  | 47.99       | 30.59  | 4.68  | 36.81  | 46.45  | 74.00  | -27.55 | HORIZONTAL | Peak   |
| 5 | 10600.000 | 43.19       | 39.59  | 7.46  | 37.34  | 52.90  | 68.20  | -15.30 | HORIZONTAL | Peak   |
| 6 | 15900.000 | 38.52       | 38.44  | 9.86  | 35.40  | 51.42  | 74.00  | -22.58 | HORIZONTAL | Peak   |

Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



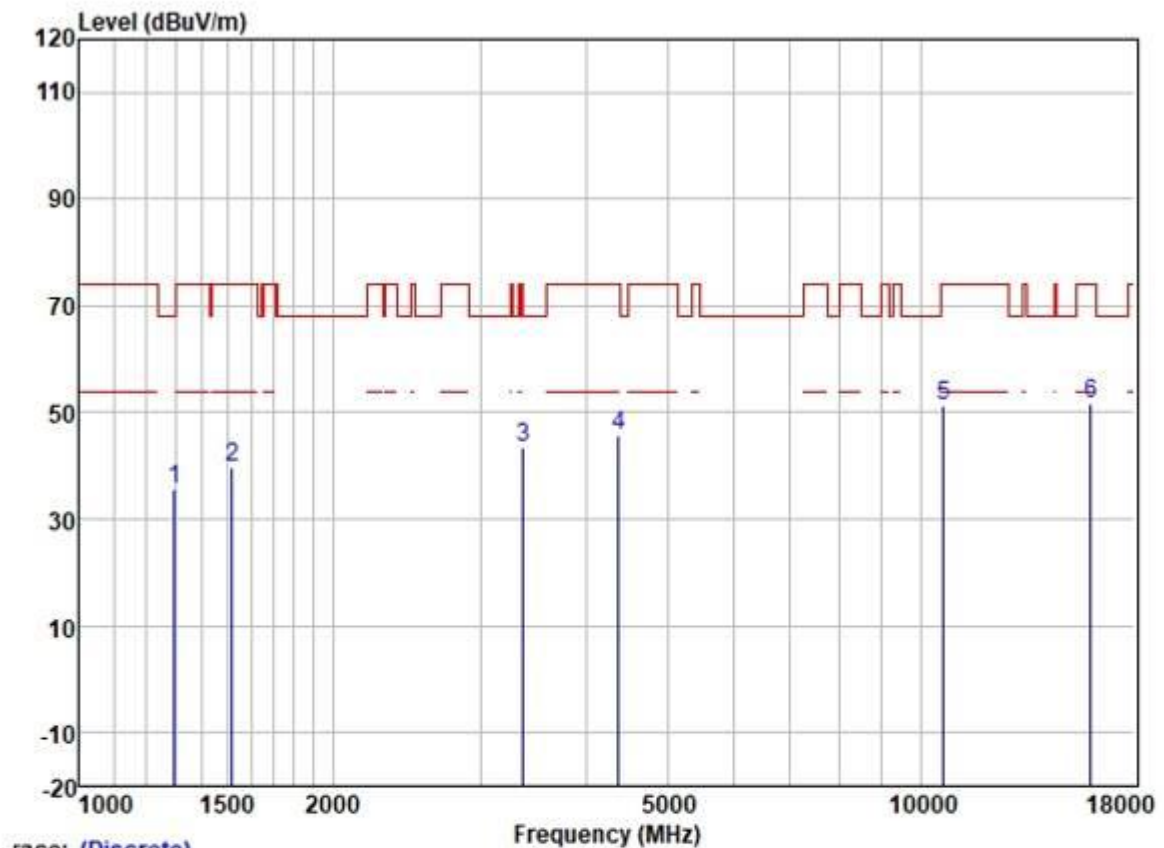
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1203.199  | 46.75 | 24.70   | 2.34  | 38.39  | 35.40  | 74.00  | -38.60    | VERTICAL Peak |
| 2 | 1520.598  | 47.68 | 25.51   | 2.80  | 38.07  | 37.92  | 74.00  | -36.08    | VERTICAL Peak |
| 3 | 3405.929  | 48.18 | 28.85   | 4.11  | 36.98  | 44.16  | 68.20  | -24.04    | VERTICAL Peak |
| 4 | 4482.150  | 47.82 | 30.78   | 4.99  | 36.81  | 46.78  | 68.20  | -21.42    | VERTICAL Peak |
| 5 | 10600.000 | 41.58 | 39.59   | 7.46  | 37.34  | 51.29  | 68.20  | -16.91    | VERTICAL Peak |
| 6 | 15900.000 | 38.13 | 38.44   | 9.86  | 35.40  | 51.03  | 74.00  | -22.97    | VERTICAL Peak |

Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



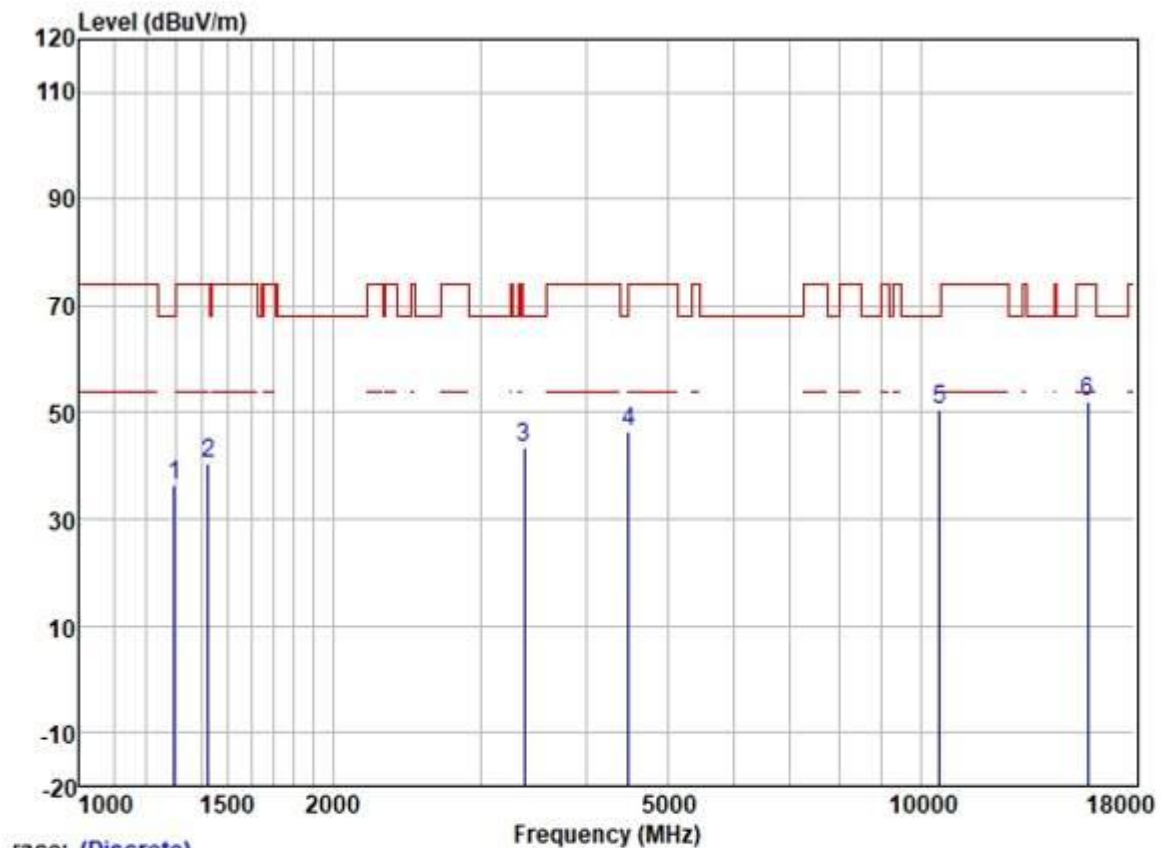
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |                 |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|-----------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark          |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |                 |
| 1 | 1297.103  | 47.29 | 25.19   | 2.58  | 38.31  | 36.75  | 68.20  | -31.45    | HORIZONTAL Peak |
| 2 | 1422.798  | 49.38 | 25.42   | 2.64  | 38.20  | 39.24  | 74.00  | -34.76    | HORIZONTAL Peak |
| 3 | 3495.691  | 47.14 | 28.90   | 4.30  | 36.94  | 43.40  | 68.20  | -24.80    | HORIZONTAL Peak |
| 4 | 4279.589  | 47.70 | 30.42   | 4.63  | 36.81  | 45.94  | 74.00  | -28.06    | HORIZONTAL Peak |
| 5 | 10640.000 | 41.42 | 39.63   | 7.48  | 37.33  | 51.20  | 74.00  | -22.80    | HORIZONTAL Peak |
| 6 | 15960.000 | 39.27 | 38.37   | 9.85  | 35.40  | 52.09  | 74.00  | -21.91    | HORIZONTAL Peak |

Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



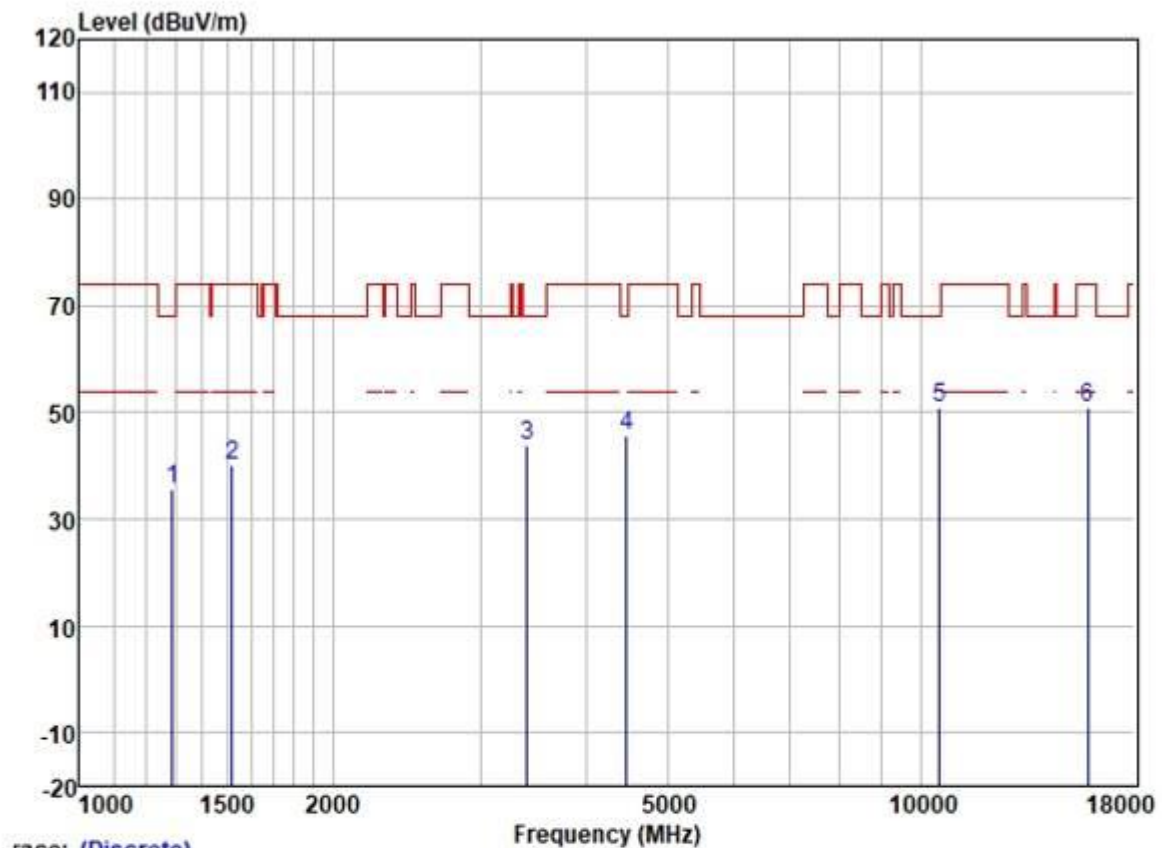
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1297.103  | 46.03       | 25.19  | 2.58  | 38.31  | 35.49  | 68.20  | -32.71 | VERTICAL  | Peak   |
| 2 | 1520.598  | 49.58       | 25.51  | 2.80  | 38.07  | 39.82  | 74.00  | -34.18 | VERTICAL  | Peak   |
| 3 | 3366.778  | 47.53       | 28.82  | 4.09  | 36.99  | 43.45  | 68.20  | -24.75 | VERTICAL  | Peak   |
| 4 | 4379.699  | 47.19       | 30.64  | 4.69  | 36.81  | 45.71  | 74.00  | -28.29 | VERTICAL  | Peak   |
| 5 | 10640.000 | 41.48       | 39.63  | 7.48  | 37.33  | 51.26  | 74.00  | -22.74 | VERTICAL  | Peak   |
| 6 | 15960.000 | 38.82       | 38.37  | 9.85  | 35.40  | 51.64  | 74.00  | -22.36 | VERTICAL  | Peak   |

Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



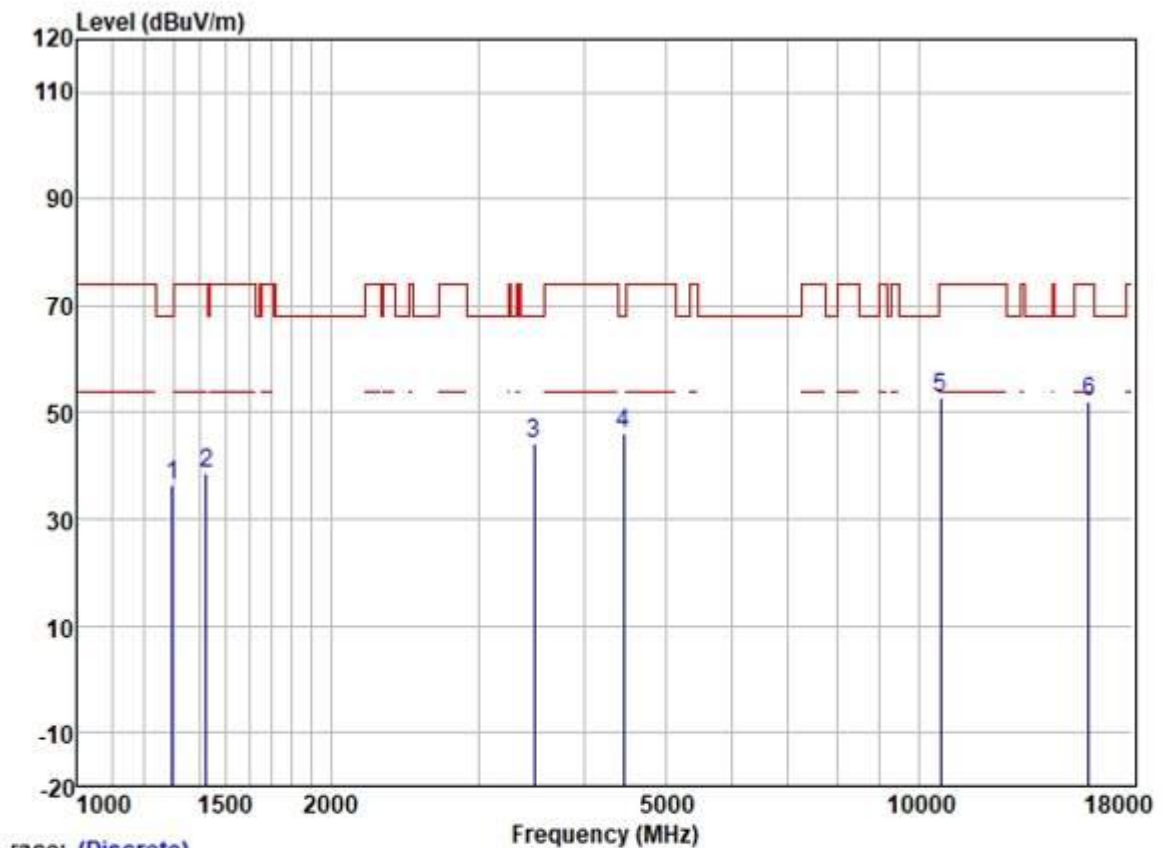
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |                 |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|-----------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark          |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |                 |
| 1 | 1297.103  | 46.82 | 25.19   | 2.58  | 38.31  | 36.28  | 68.20  | -31.92    | HORIZONTAL Peak |
| 2 | 1422.798  | 50.68 | 25.42   | 2.64  | 38.20  | 40.54  | 74.00  | -33.46    | HORIZONTAL Peak |
| 3 | 3376.523  | 47.55 | 28.83   | 4.09  | 36.99  | 43.48  | 68.20  | -24.72    | HORIZONTAL Peak |
| 4 | 4495.125  | 47.40 | 30.80   | 5.05  | 36.82  | 46.43  | 68.20  | -21.77    | HORIZONTAL Peak |
| 5 | 10540.000 | 41.11 | 39.53   | 7.43  | 37.35  | 50.72  | 68.20  | -17.48    | HORIZONTAL Peak |
| 6 | 15810.000 | 38.80 | 38.61   | 9.86  | 35.39  | 51.88  | 74.00  | -22.12    | HORIZONTAL Peak |

Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



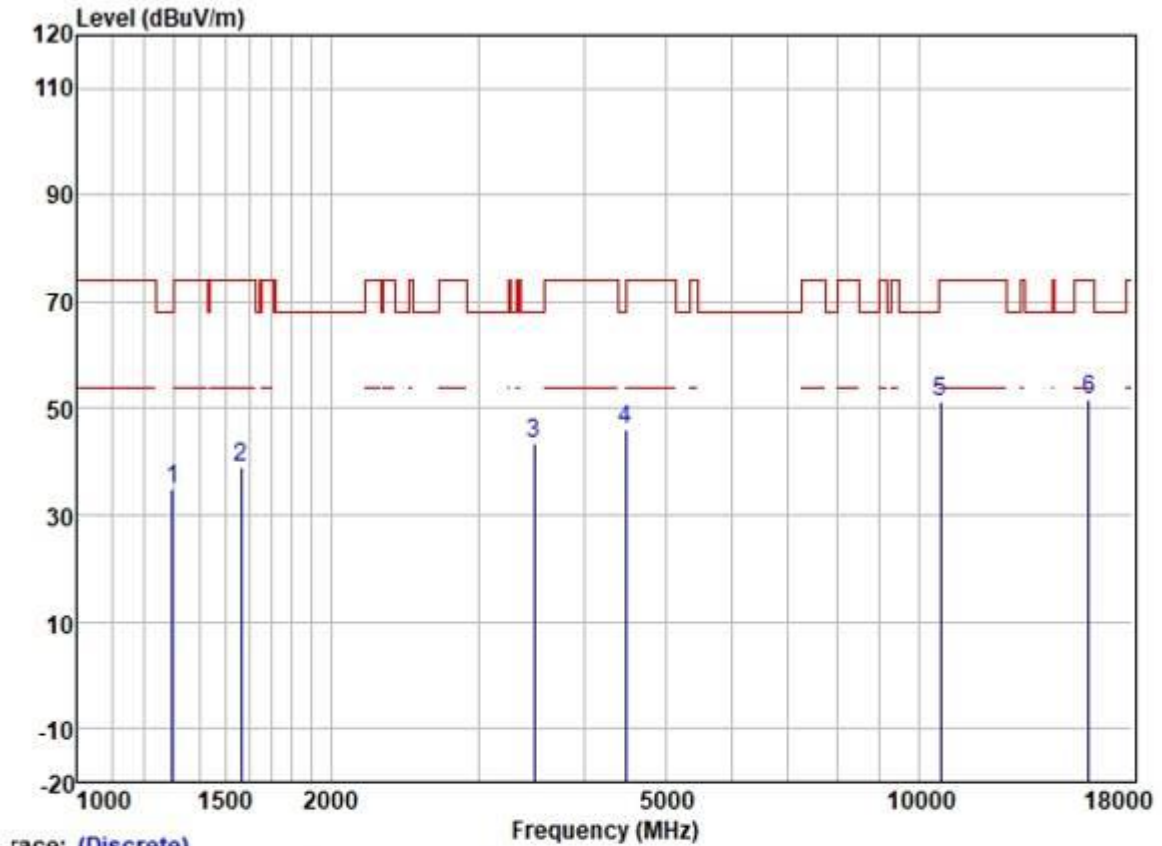
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1289.627  | 46.29 | 25.17   | 2.55  | 38.31  | 35.70  | 68.20  | -32.50    | VERTICAL Peak |
| 2 | 1520.598  | 49.76 | 25.51   | 2.80  | 38.07  | 40.00  | 74.00  | -34.00    | VERTICAL Peak |
| 3 | 3405.929  | 47.91 | 28.85   | 4.11  | 36.98  | 43.89  | 68.20  | -24.31    | VERTICAL Peak |
| 4 | 4469.214  | 46.86 | 30.77   | 4.93  | 36.81  | 45.75  | 68.20  | -22.45    | VERTICAL Peak |
| 5 | 10540.000 | 41.39 | 39.53   | 7.43  | 37.35  | 51.00  | 68.20  | -17.20    | VERTICAL Peak |
| 6 | 15810.000 | 37.94 | 38.61   | 9.86  | 35.39  | 51.02  | 74.00  | -22.98    | VERTICAL Peak |

Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



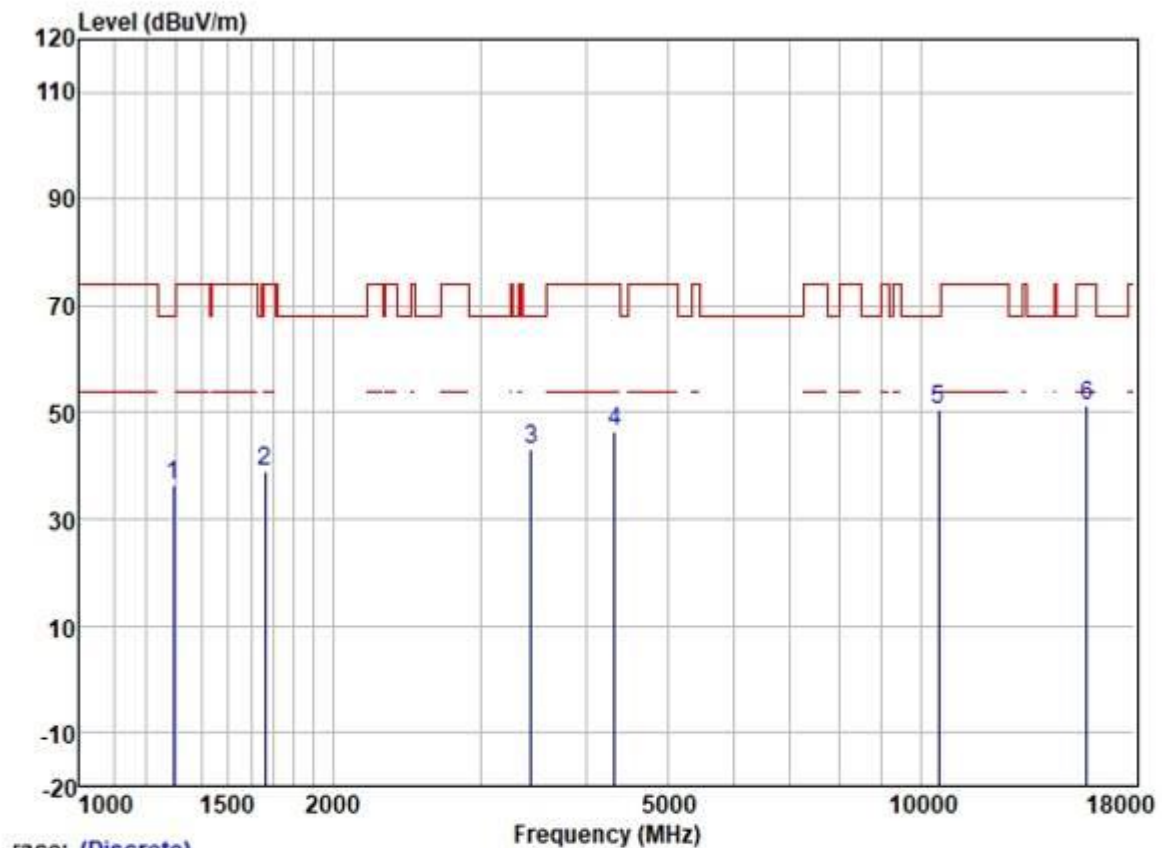
|   | Freq      | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Level  | Limit<br>Line | Over<br>Limit | Pol/Phase  | Remark |
|---|-----------|---------------|-------------------|---------------|------------------|--------|---------------|---------------|------------|--------|
|   | MHz       | dBuV          | dB/m              | dB            | dB               | dBuV/m | dBuV/m        | dB            |            |        |
| 1 | 1297.103  | 47.09         | 25.19             | 2.58          | 38.31            | 36.55  | 68.20         | -31.65        | HORIZONTAL | Peak   |
| 2 | 1422.798  | 48.92         | 25.42             | 2.64          | 38.20            | 38.78  | 74.00         | -35.22        | HORIZONTAL | Peak   |
| 3 | 3495.691  | 47.81         | 28.90             | 4.30          | 36.94            | 44.07  | 68.20         | -24.13        | HORIZONTAL | Peak   |
| 4 | 4456.315  | 47.36         | 30.75             | 4.88          | 36.81            | 46.18  | 68.20         | -22.02        | HORIZONTAL | Peak   |
| 5 | 10620.000 | 42.93         | 39.59             | 7.46          | 37.34            | 52.64  | 74.00         | -21.36        | HORIZONTAL | Peak   |
| 6 | 15930.000 | 39.31         | 38.37             | 9.85          | 35.40            | 52.13  | 74.00         | -21.87        | HORIZONTAL | Peak   |

Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



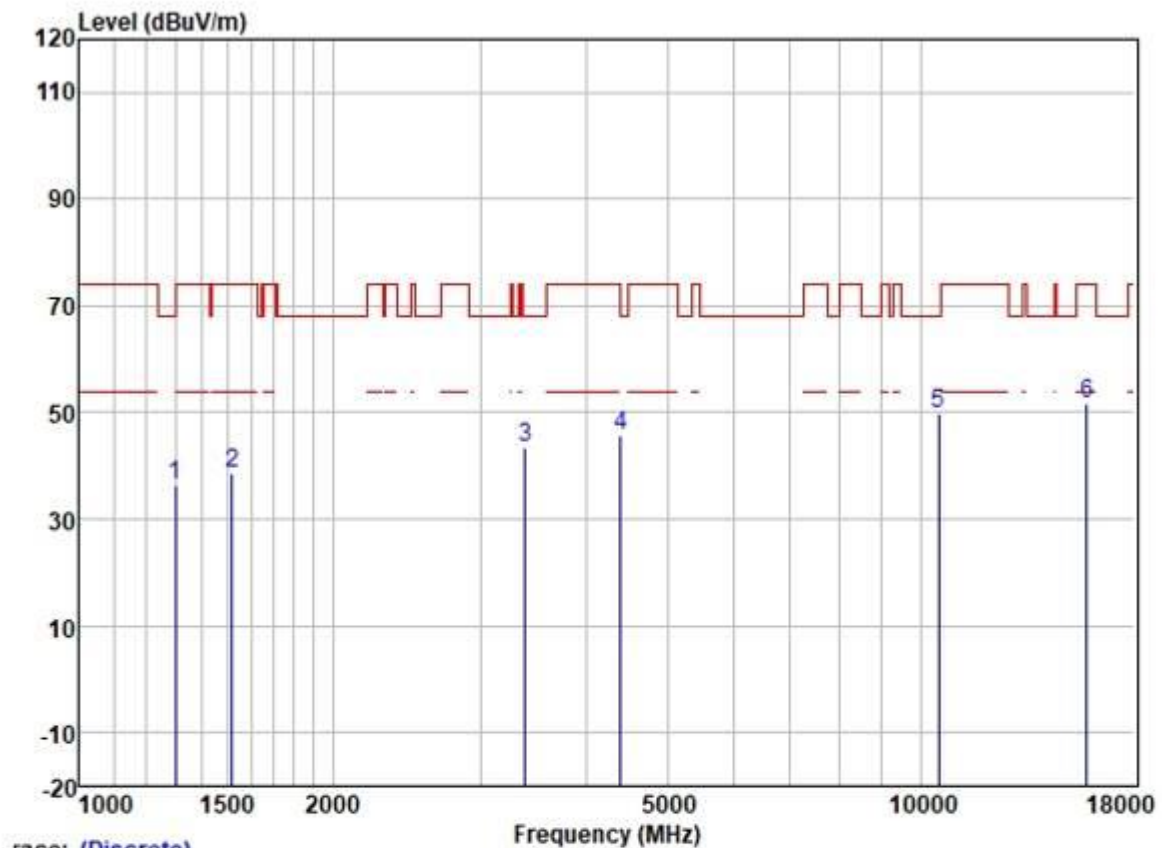
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1297.103  | 45.26 | 25.19   | 2.58  | 38.31  | 34.72  | 68.20  | -33.48    | VERTICAL Peak |
| 2 | 1565.191  | 48.68 | 25.55   | 2.80  | 38.00  | 39.03  | 74.00  | -34.97    | VERTICAL Peak |
| 3 | 3495.691  | 47.36 | 28.90   | 4.30  | 36.94  | 43.62  | 68.20  | -24.58    | VERTICAL Peak |
| 4 | 4482.150  | 47.01 | 30.78   | 4.99  | 36.81  | 45.97  | 68.20  | -22.23    | VERTICAL Peak |
| 5 | 10620.000 | 41.56 | 39.59   | 7.46  | 37.34  | 51.27  | 74.00  | -22.73    | VERTICAL Peak |
| 6 | 15930.000 | 38.75 | 38.37   | 9.85  | 35.40  | 51.57  | 74.00  | -22.43    | VERTICAL Peak |

Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



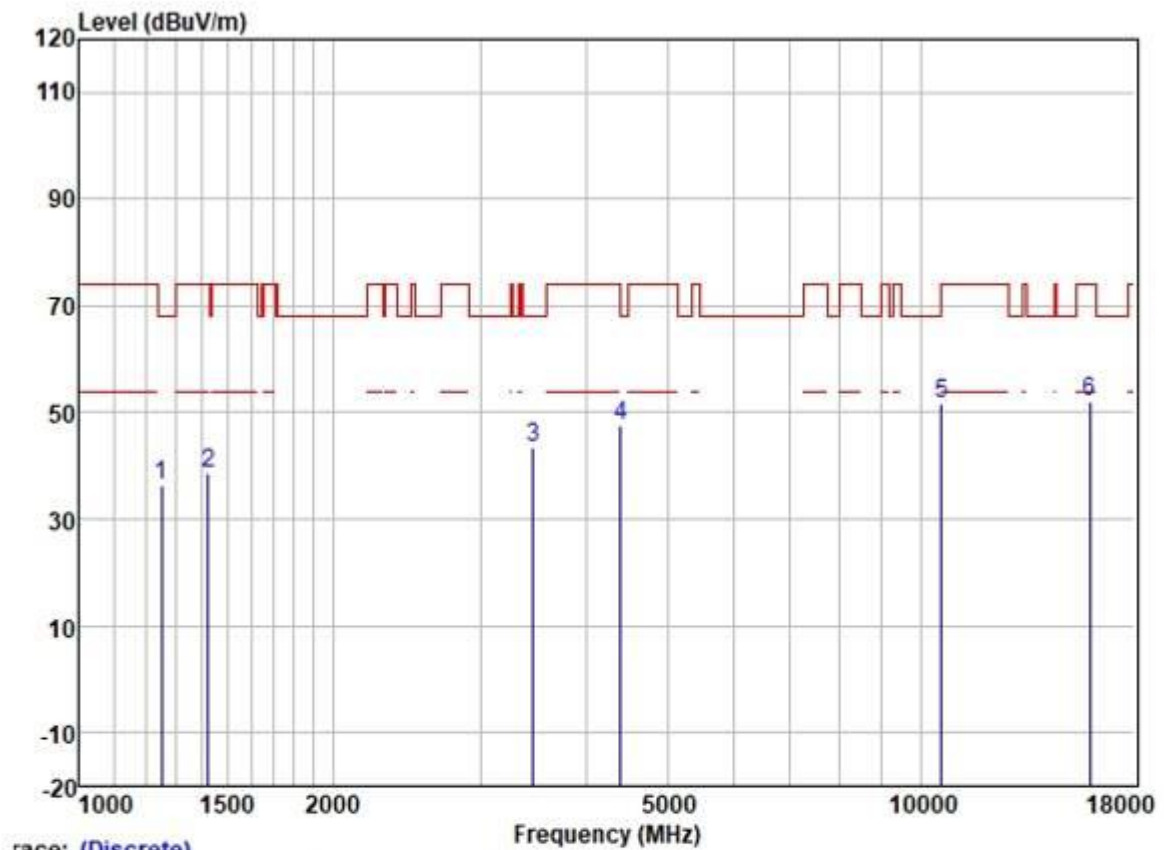
|   | Freq      | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |            |        |
|---|-----------|-------------|--------|--------|--------|--------|--------|--------|------------|--------|
|   | MHz       | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1293.359  | 46.99       | 25.18  | 2.57   | 38.31  | 36.43  | 68.20  | -31.77 | HORIZONTAL | Peak   |
| 2 | 1663.137  | 48.53       | 25.65  | 2.80   | 37.91  | 39.07  | 74.00  | -34.93 | HORIZONTAL | Peak   |
| 3 | 3445.535  | 47.13       | 28.87  | 4.18   | 36.96  | 43.22  | 68.20  | -24.98 | HORIZONTAL | Peak   |
| 4 | 4329.354  | 47.96       | 30.54  | 4.67   | 36.81  | 46.36  | 74.00  | -27.64 | HORIZONTAL | Peak   |
| 5 | 10520.000 | 40.99       | 39.50  | 7.42   | 37.35  | 50.56  | 68.20  | -17.64 | HORIZONTAL | Peak   |
| 6 | 15780.000 | 38.32       | 38.70  | 9.86   | 35.39  | 51.49  | 74.00  | -22.51 | HORIZONTAL | Peak   |

Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



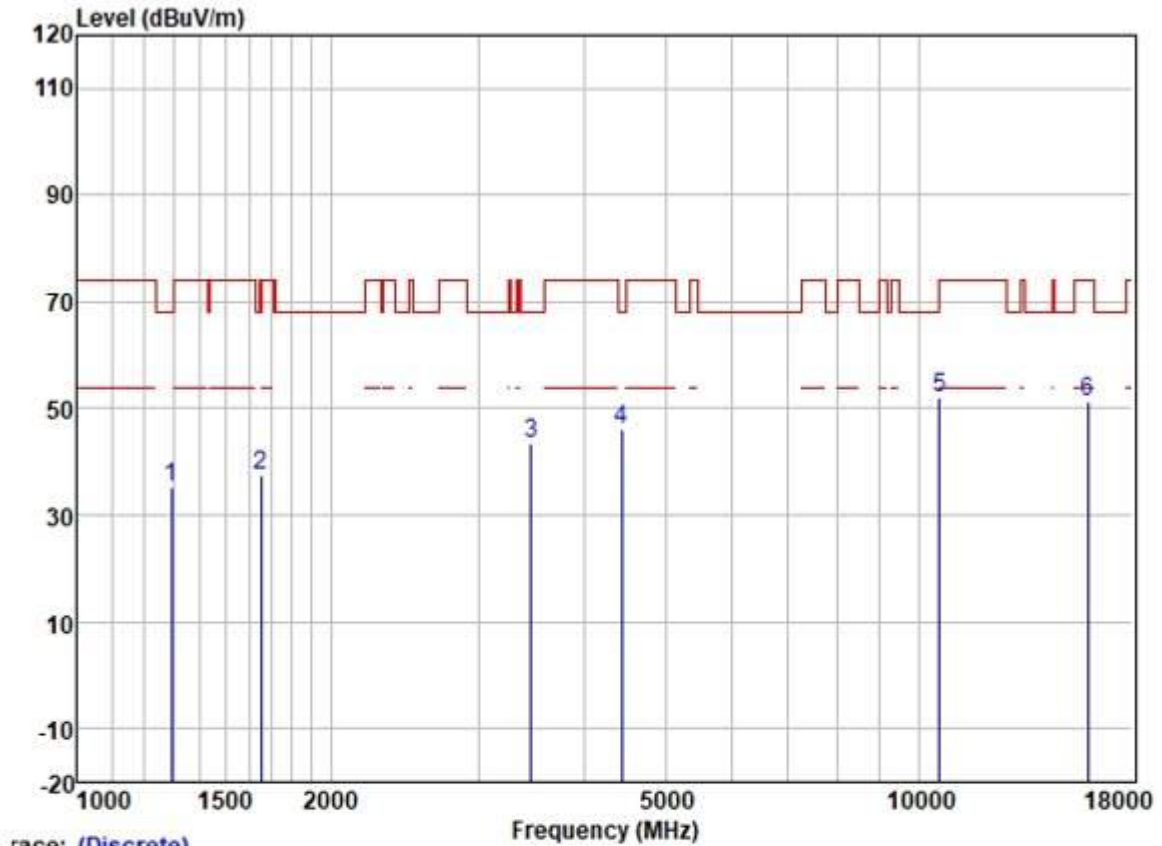
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1300.858  | 46.94 | 25.20   | 2.60  | 38.31  | 36.43  | 74.00  | -37.57    | VERTICAL Peak |
| 2 | 1520.598  | 48.40 | 25.51   | 2.80  | 38.07  | 38.64  | 74.00  | -35.36    | VERTICAL Peak |
| 3 | 3386.297  | 47.65 | 28.83   | 4.10  | 36.99  | 43.59  | 68.20  | -24.61    | VERTICAL Peak |
| 4 | 4405.090  | 47.03 | 30.68   | 4.70  | 36.81  | 45.60  | 68.20  | -22.60    | VERTICAL Peak |
| 5 | 10520.000 | 40.36 | 39.50   | 7.42  | 37.35  | 49.93  | 68.20  | -18.27    | VERTICAL Peak |
| 6 | 15780.000 | 38.39 | 38.70   | 9.86  | 35.39  | 51.56  | 74.00  | -22.44    | VERTICAL Peak |

Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



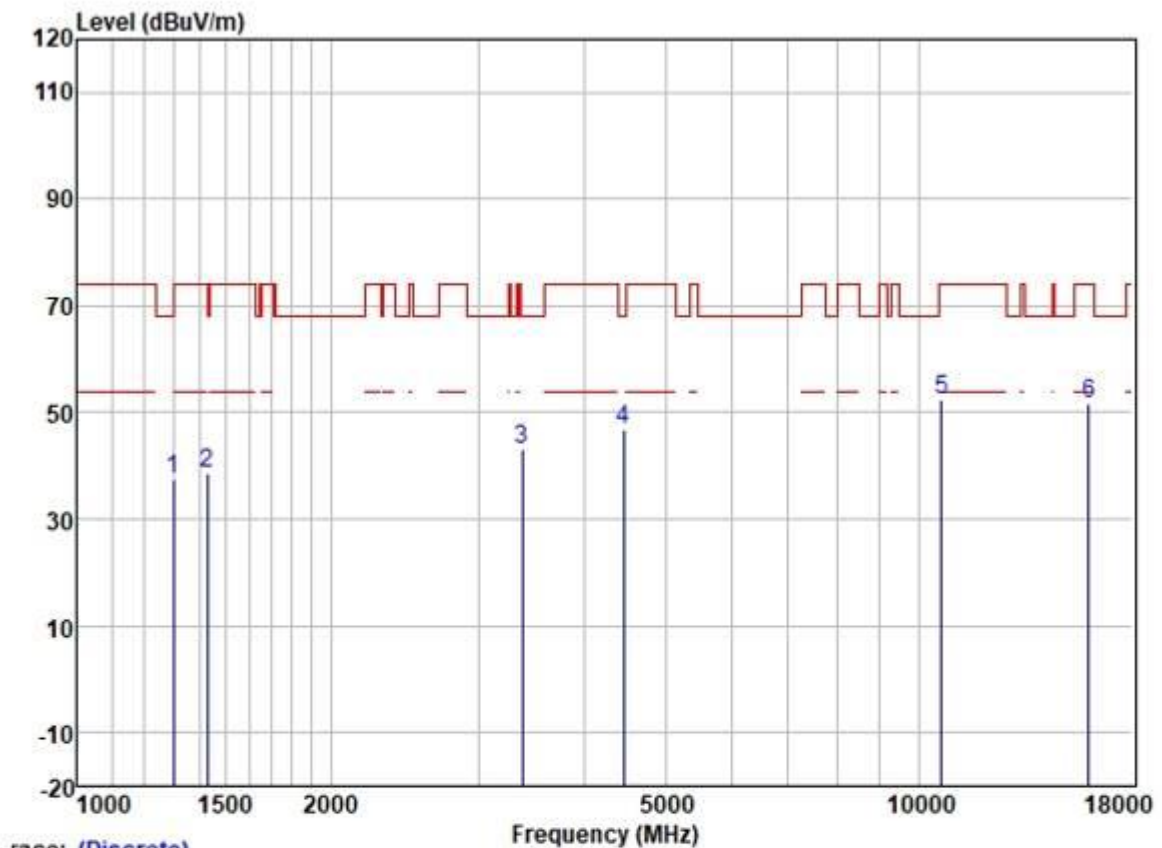
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1252.885  | 47.24       | 25.03  | 2.36  | 38.35  | 36.28  | 68.20  | -31.92 | HORIZONTAL | Peak   |
| 2 | 1422.798  | 48.77       | 25.42  | 2.64  | 38.20  | 38.63  | 74.00  | -35.37 | HORIZONTAL | Peak   |
| 3 | 3465.510  | 47.27       | 28.88  | 4.22  | 36.95  | 43.42  | 68.20  | -24.78 | HORIZONTAL | Peak   |
| 4 | 4405.090  | 48.95       | 30.68  | 4.70  | 36.81  | 47.52  | 68.20  | -20.68 | HORIZONTAL | Peak   |
| 5 | 10600.000 | 41.99       | 39.59  | 7.46  | 37.34  | 51.70  | 68.20  | -16.50 | HORIZONTAL | Peak   |
| 6 | 15900.000 | 38.97       | 38.44  | 9.86  | 35.40  | 51.87  | 74.00  | -22.13 | HORIZONTAL | Peak   |

Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



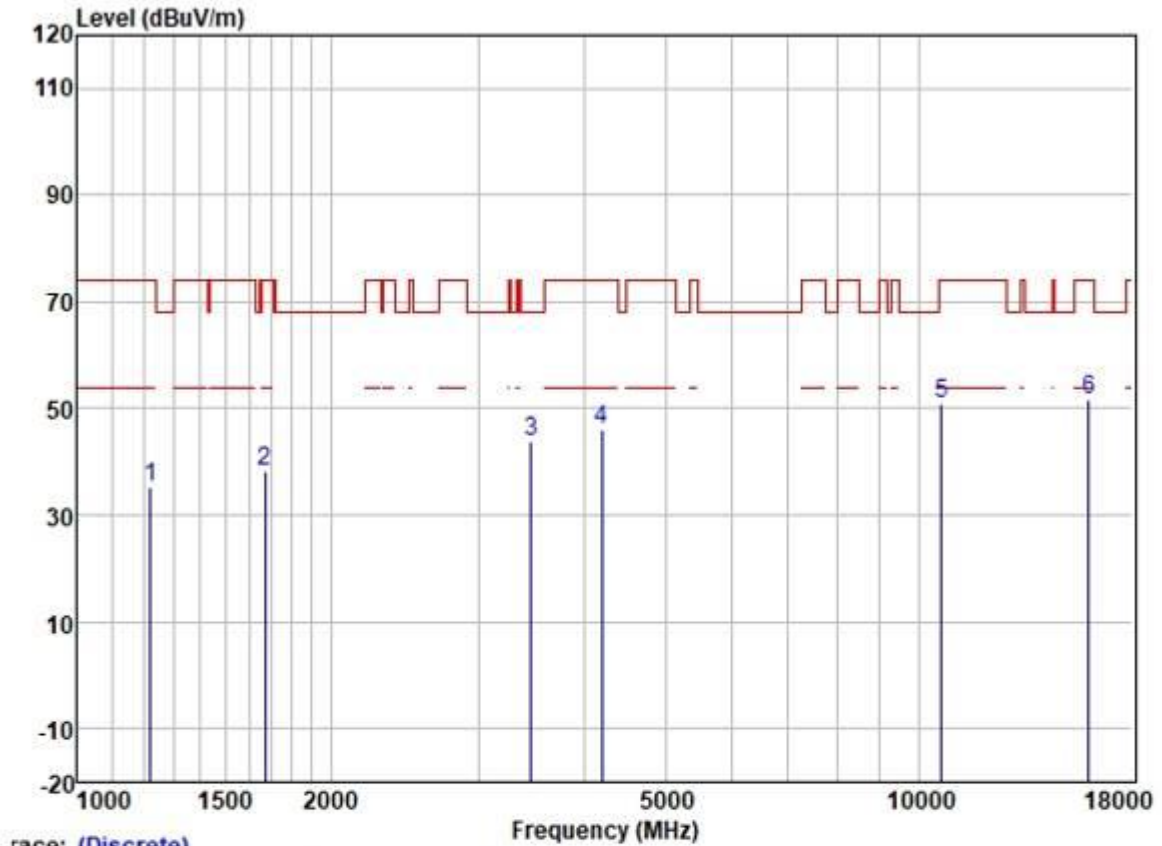
|   |           | Read  | Antenna | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------|---------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level | Factor  | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1293.359  | 45.83 | 25.18   | 2.57  | 38.31  | 35.27  | 68.20  | -32.93 | VERTICAL  | Peak   |
| 2 | 1653.550  | 47.16 | 25.64   | 2.80  | 37.93  | 37.67  | 68.20  | -30.53 | VERTICAL  | Peak   |
| 3 | 3465.510  | 47.47 | 28.88   | 4.22  | 36.95  | 43.62  | 68.20  | -24.58 | VERTICAL  | Peak   |
| 4 | 4443.453  | 47.35 | 30.73   | 4.83  | 36.81  | 46.10  | 68.20  | -22.10 | VERTICAL  | Peak   |
| 5 | 10600.000 | 42.35 | 39.59   | 7.46  | 37.34  | 52.06  | 68.20  | -16.14 | VERTICAL  | Peak   |
| 6 | 15900.000 | 38.33 | 38.44   | 9.86  | 35.40  | 51.23  | 74.00  | -22.77 | VERTICAL  | Peak   |

Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



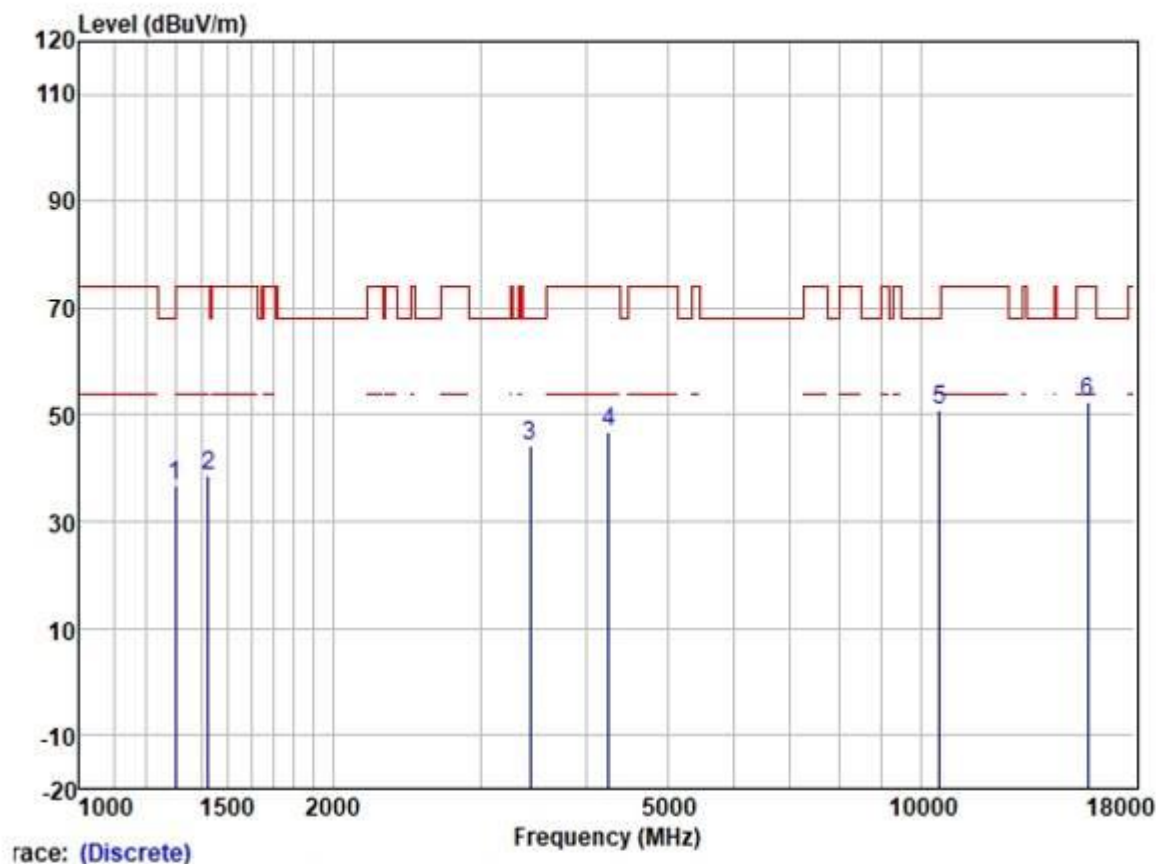
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1300.858  | 48.15       | 25.20  | 2.60  | 38.31  | 37.64  | 74.00  | -36.36 | HORIZONTAL | Peak   |
| 2 | 1426.916  | 48.91       | 25.43  | 2.65  | 38.20  | 38.79  | 74.00  | -35.21 | HORIZONTAL | Peak   |
| 3 | 3376.523  | 47.30       | 28.83  | 4.09  | 36.99  | 43.23  | 68.20  | -24.97 | HORIZONTAL | Peak   |
| 4 | 4456.315  | 48.03       | 30.75  | 4.88  | 36.81  | 46.85  | 68.20  | -21.35 | HORIZONTAL | Peak   |
| 5 | 10640.000 | 42.55       | 39.63  | 7.48  | 37.33  | 52.33  | 74.00  | -21.67 | HORIZONTAL | Peak   |
| 6 | 15960.000 | 38.70       | 38.37  | 9.85  | 35.40  | 51.52  | 74.00  | -22.48 | HORIZONTAL | Peak   |

Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



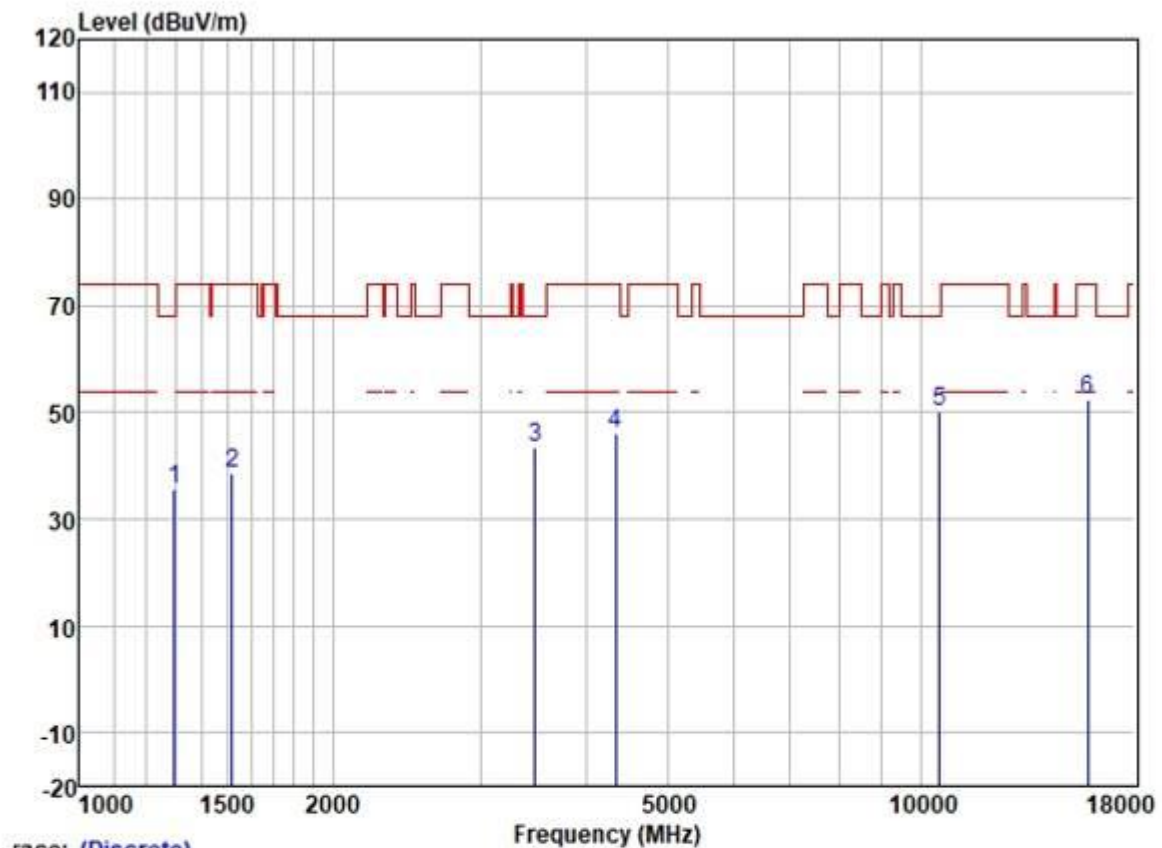
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1220.714  | 46.31       | 24.82  | 2.32  | 38.37  | 35.08  | 74.00  | -38.92 | VERTICAL  | Peak   |
| 2 | 1672.779  | 47.77       | 25.67  | 2.80  | 37.91  | 38.33  | 74.00  | -35.67 | VERTICAL  | Peak   |
| 3 | 3465.510  | 47.62       | 28.88  | 4.22  | 36.95  | 43.77  | 68.20  | -24.43 | VERTICAL  | Peak   |
| 4 | 4206.011  | 47.96       | 30.18  | 4.60  | 36.81  | 45.93  | 74.00  | -28.07 | VERTICAL  | Peak   |
| 5 | 10640.000 | 41.24       | 39.63  | 7.48  | 37.33  | 51.02  | 74.00  | -22.98 | VERTICAL  | Peak   |
| 6 | 15960.000 | 38.73       | 38.37  | 9.85  | 35.40  | 51.55  | 74.00  | -22.45 | VERTICAL  | Peak   |

Test Mode: 15; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



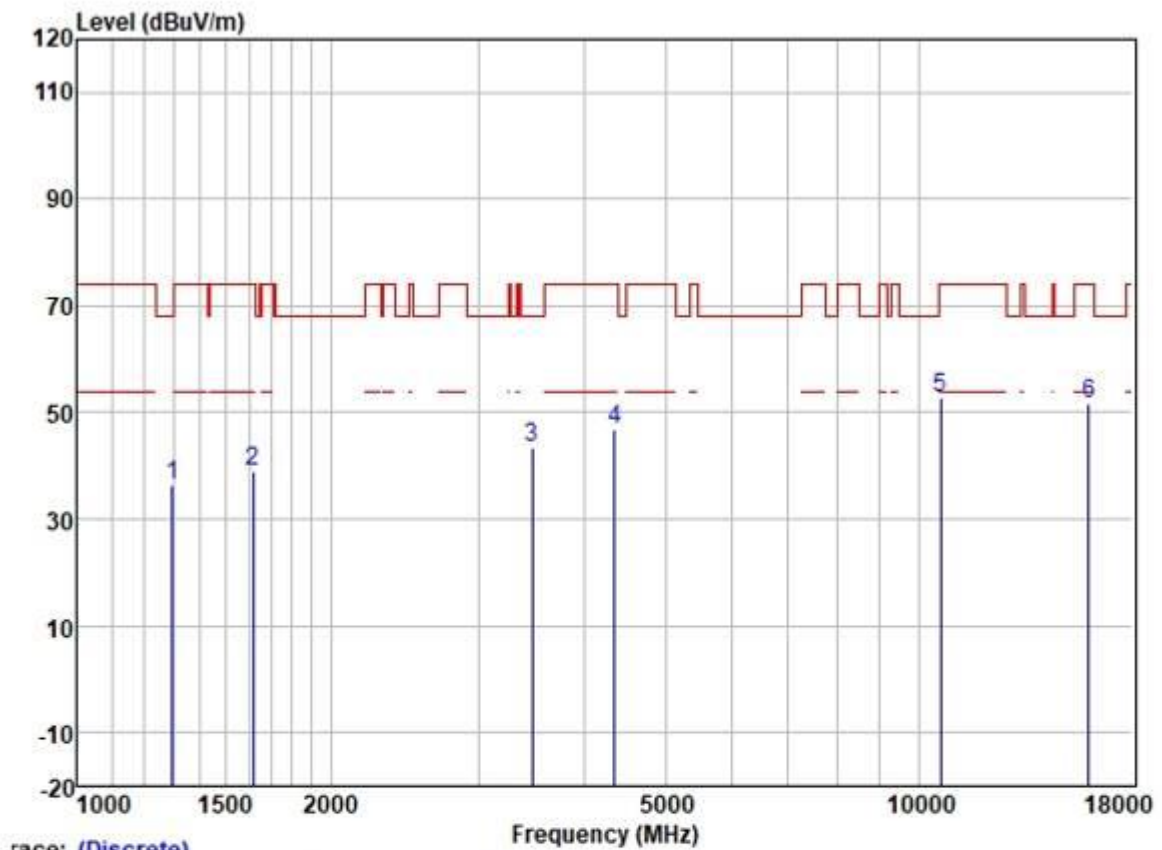
|   | Freq      | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |            |        |
|---|-----------|-------------|--------|--------|--------|--------|--------|--------|------------|--------|
|   | MHz       | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1300.858  | 47.13       | 25.20  | 2.60   | 38.31  | 36.62  | 74.00  | -37.38 | HORIZONTAL | Peak   |
| 2 | 1422.798  | 48.92       | 25.42  | 2.64   | 38.20  | 38.78  | 74.00  | -35.22 | HORIZONTAL | Peak   |
| 3 | 3435.590  | 48.06       | 28.87  | 4.16   | 36.97  | 44.12  | 68.20  | -24.08 | HORIZONTAL | Peak   |
| 4 | 4254.921  | 48.85       | 30.34  | 4.62   | 36.81  | 47.00  | 74.00  | -27.00 | HORIZONTAL | Peak   |
| 5 | 10540.000 | 41.43       | 39.53  | 7.43   | 37.35  | 51.04  | 68.20  | -17.16 | HORIZONTAL | Peak   |
| 6 | 15810.000 | 39.26       | 38.61  | 9.86   | 35.39  | 52.34  | 74.00  | -21.66 | HORIZONTAL | Peak   |

Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



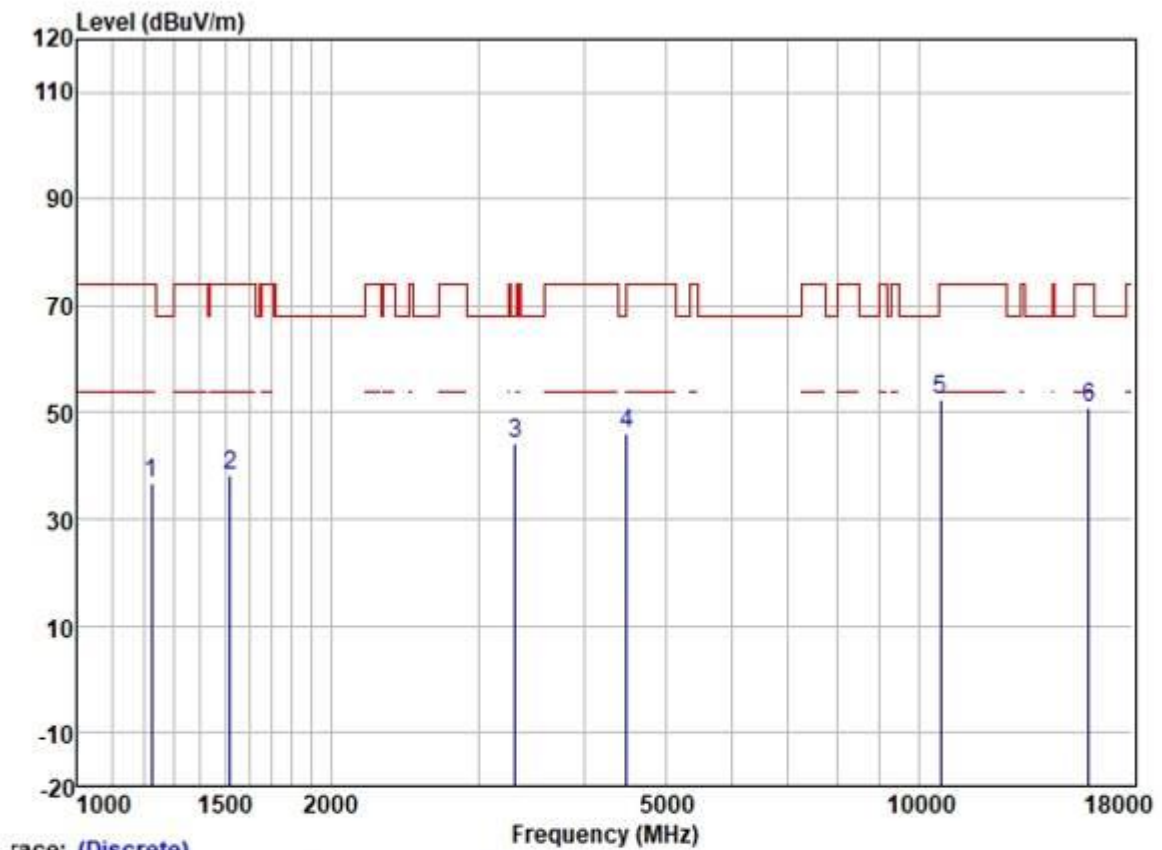
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1297.103  | 46.06 | 25.19   | 2.58  | 38.31  | 35.52  | 68.20  | -32.68    | VERTICAL Peak |
| 2 | 1520.598  | 48.31 | 25.51   | 2.80  | 38.07  | 38.55  | 74.00  | -35.45    | VERTICAL Peak |
| 3 | 3485.601  | 47.14 | 28.89   | 4.27  | 36.95  | 43.35  | 68.20  | -24.85    | VERTICAL Peak |
| 4 | 4341.886  | 47.61 | 30.57   | 4.67  | 36.81  | 46.04  | 74.00  | -27.96    | VERTICAL Peak |
| 5 | 10540.000 | 40.47 | 39.53   | 7.43  | 37.35  | 50.08  | 68.20  | -18.12    | VERTICAL Peak |
| 6 | 15810.000 | 39.39 | 38.61   | 9.86  | 35.39  | 52.47  | 74.00  | -21.53    | VERTICAL Peak |

Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



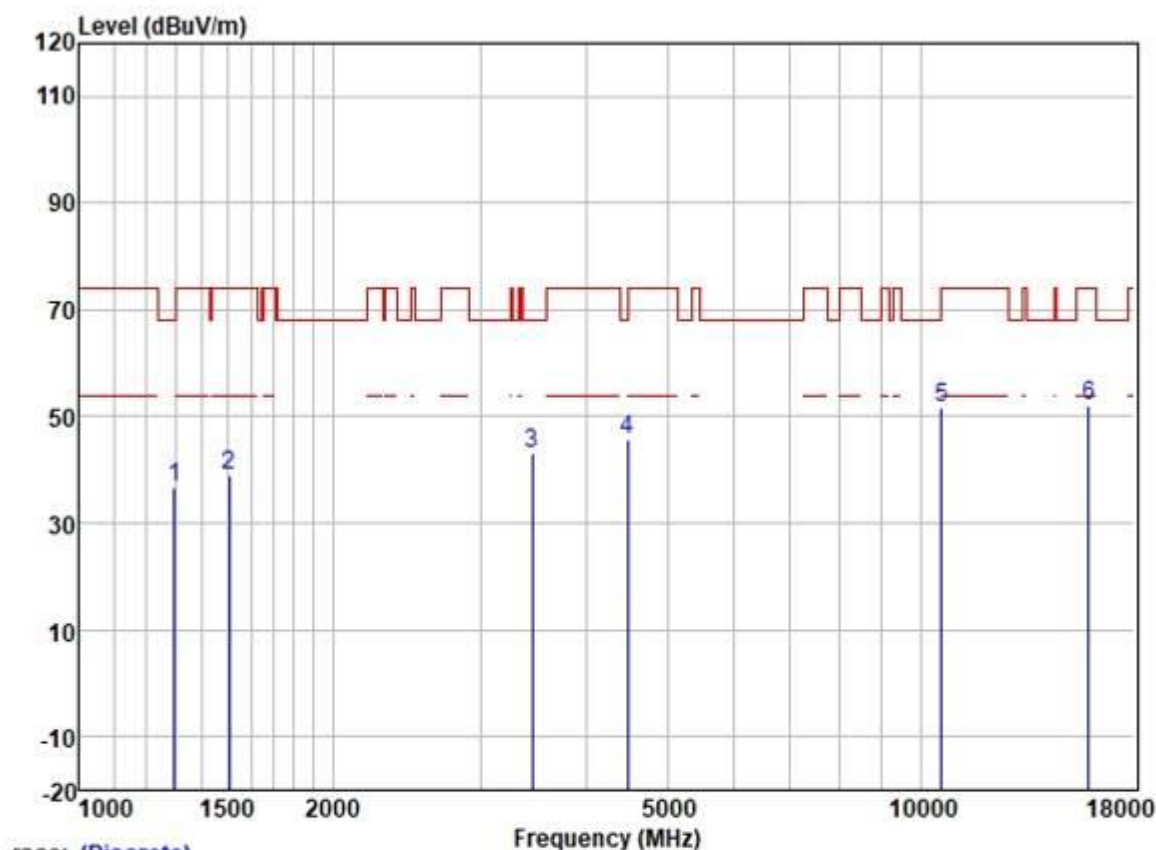
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |                 |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|-----------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark          |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |                 |
| 1 | 1297.103  | 46.84 | 25.19   | 2.58  | 38.31  | 36.30  | 68.20  | -31.90    | HORIZONTAL Peak |
| 2 | 1615.754  | 48.38 | 25.60   | 2.80  | 37.95  | 38.83  | 74.00  | -35.17    | HORIZONTAL Peak |
| 3 | 3475.541  | 47.46 | 28.89   | 4.25  | 36.95  | 43.65  | 68.20  | -24.55    | HORIZONTAL Peak |
| 4 | 4354.454  | 48.33 | 30.59   | 4.68  | 36.81  | 46.79  | 74.00  | -27.21    | HORIZONTAL Peak |
| 5 | 10620.000 | 43.03 | 39.59   | 7.46  | 37.34  | 52.74  | 74.00  | -21.26    | HORIZONTAL Peak |
| 6 | 15930.000 | 38.93 | 38.37   | 9.85  | 35.40  | 51.75  | 74.00  | -22.25    | HORIZONTAL Peak |

Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1224.247  | 48.05 | 24.85   | 2.31  | 38.37  | 36.84  | 74.00  | -37.16    | VERTICAL Peak |
| 2 | 1520.598  | 48.05 | 25.51   | 2.80  | 38.07  | 38.29  | 74.00  | -35.71    | VERTICAL Peak |
| 3 | 3318.471  | 48.38 | 28.77   | 4.07  | 37.02  | 44.20  | 68.20  | -24.00    | VERTICAL Peak |
| 4 | 4495.125  | 47.09 | 30.80   | 5.05  | 36.82  | 46.12  | 68.20  | -22.08    | VERTICAL Peak |
| 5 | 10620.000 | 42.66 | 39.59   | 7.46  | 37.34  | 52.37  | 74.00  | -21.63    | VERTICAL Peak |
| 6 | 15930.000 | 37.94 | 38.37   | 9.85  | 35.40  | 50.76  | 74.00  | -23.24    | VERTICAL Peak |

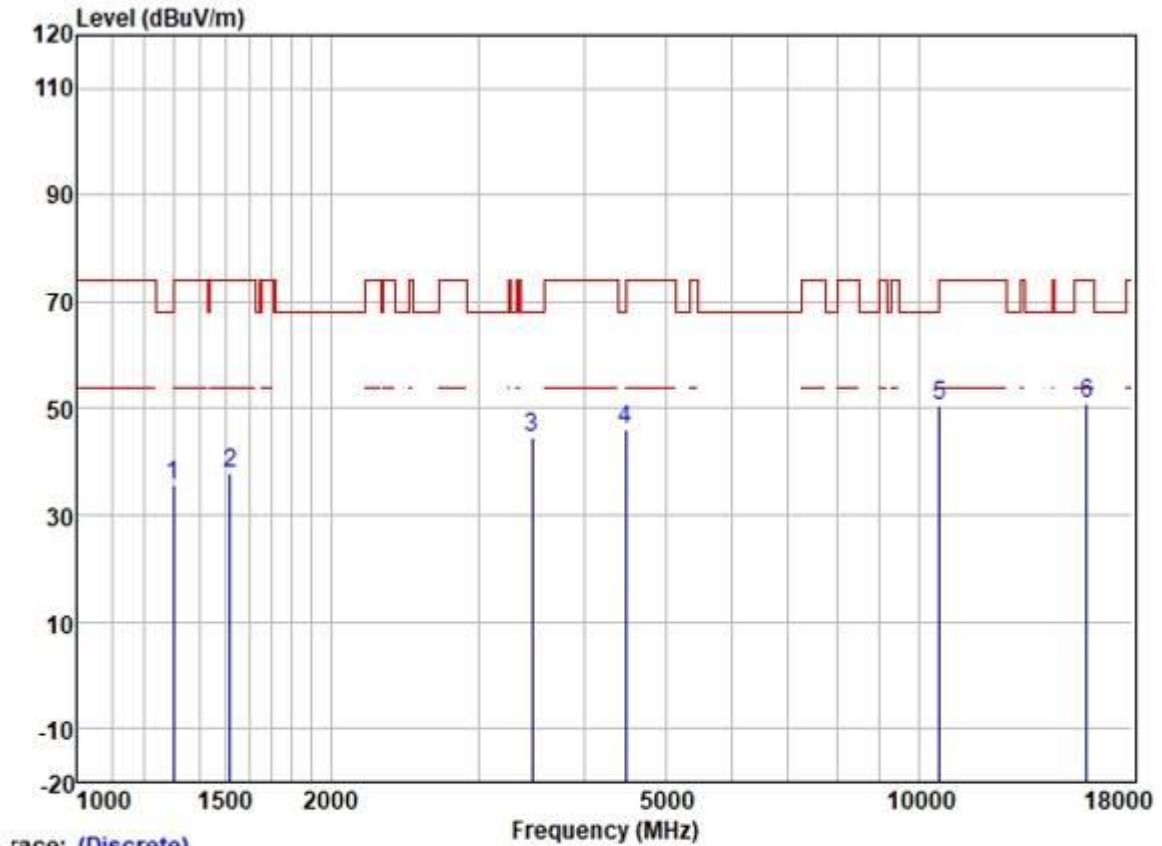
Test Mode: 15; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



race: (Discrete)

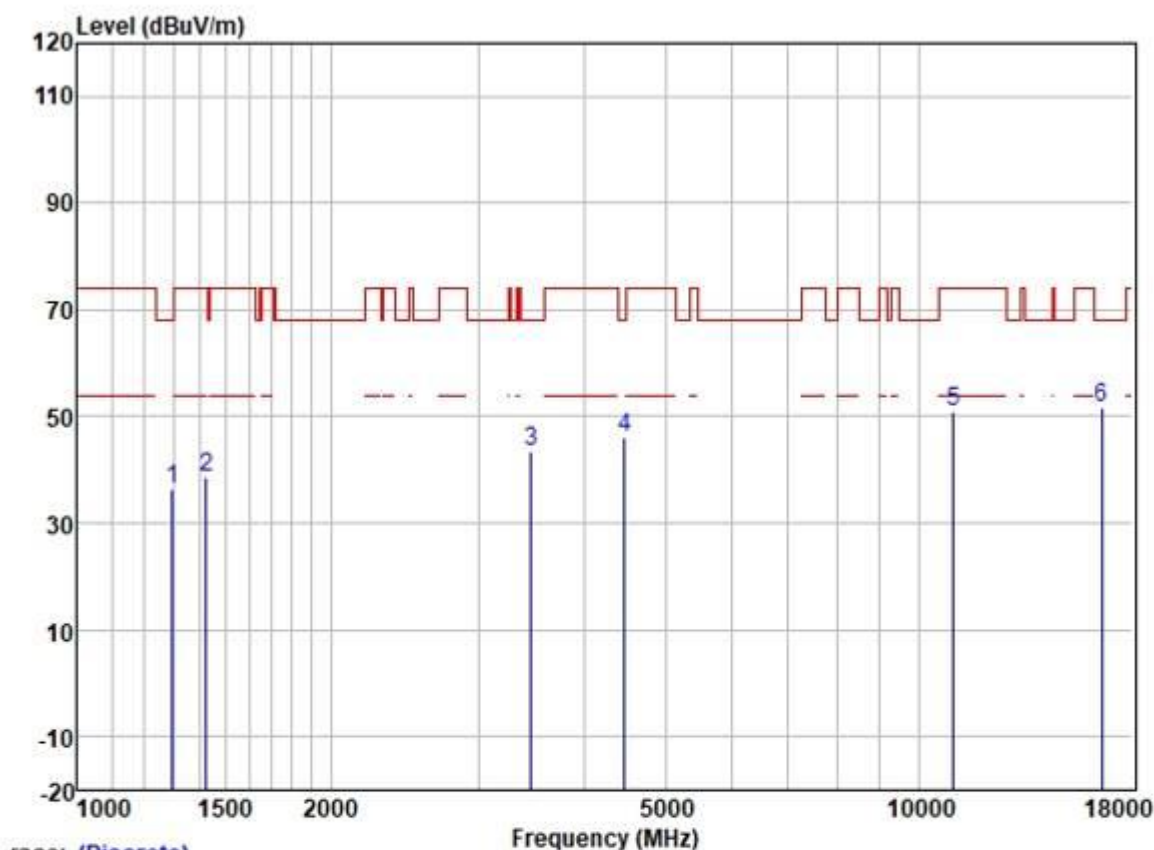
|   |           | Read  | Antenna | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------|---------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level | Factor  | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1297.103  | 47.47 | 25.19   | 2.58  | 38.31  | 36.93  | 68.20  | -31.27 | HORIZONTAL | Peak   |
| 2 | 1507.470  | 48.66 | 25.51   | 2.80  | 38.10  | 38.87  | 74.00  | -35.13 | HORIZONTAL | Peak   |
| 3 | 3455.508  | 47.07 | 28.88   | 4.20  | 36.96  | 43.19  | 68.20  | -25.01 | HORIZONTAL | Peak   |
| 4 | 4482.150  | 46.86 | 30.78   | 4.99  | 36.81  | 45.82  | 68.20  | -22.38 | HORIZONTAL | Peak   |
| 5 | 10580.000 | 41.94 | 39.56   | 7.45  | 37.34  | 51.61  | 68.20  | -16.59 | HORIZONTAL | Peak   |
| 6 | 15870.000 | 39.24 | 38.52   | 9.86  | 35.40  | 52.22  | 74.00  | -21.78 | HORIZONTAL | Peak   |

Test Mode: 15; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



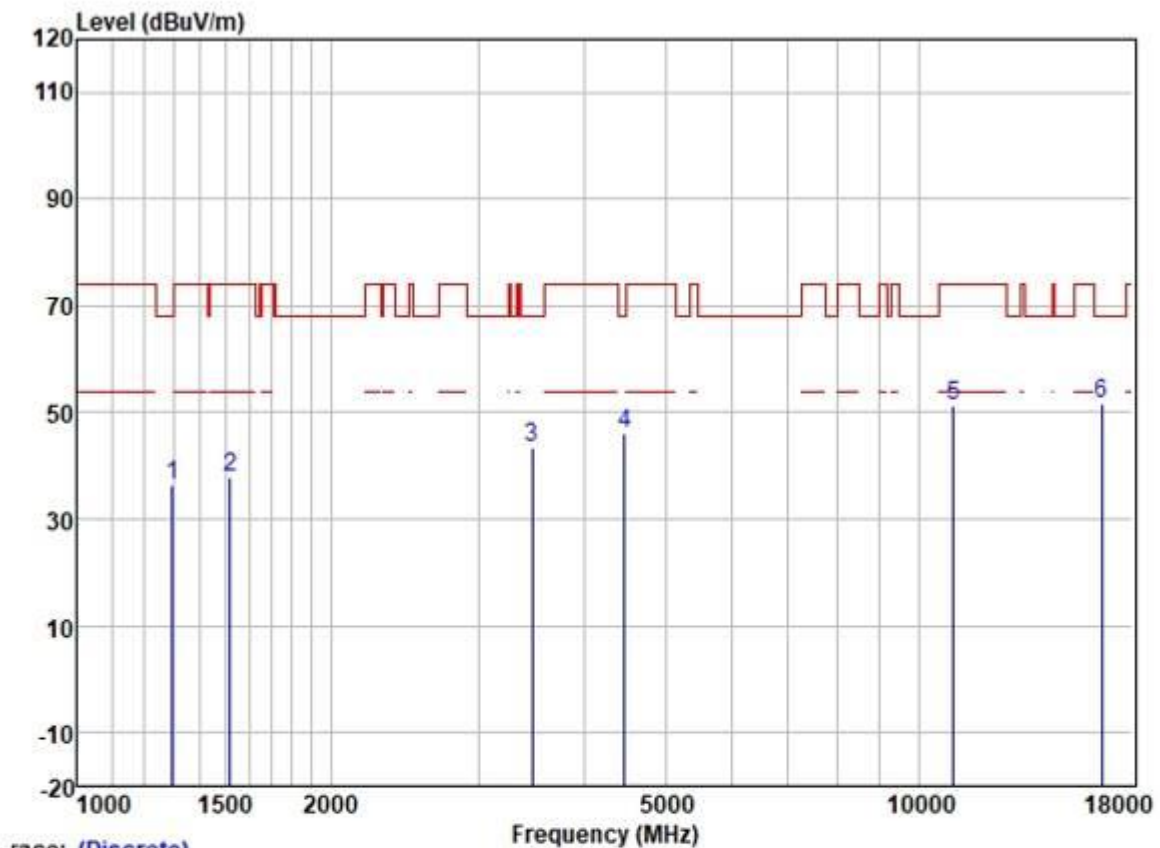
|   |           | ReadAntenna | Cable Preamp |      | Limit  | Over   |        |        |           |        |
|---|-----------|-------------|--------------|------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level       | Factor       | Loss | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m         | dB   | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1300.858  | 46.32       | 25.20        | 2.60 | 38.31  | 35.81  | 74.00  | -38.19 | VERTICAL  | Peak   |
| 2 | 1520.598  | 47.65       | 25.51        | 2.80 | 38.07  | 37.89  | 74.00  | -36.11 | VERTICAL  | Peak   |
| 3 | 3475.541  | 48.25       | 28.89        | 4.25 | 36.95  | 44.44  | 68.20  | -23.76 | VERTICAL  | Peak   |
| 4 | 4482.150  | 47.22       | 30.78        | 4.99 | 36.81  | 46.18  | 68.20  | -22.02 | VERTICAL  | Peak   |
| 5 | 10580.000 | 40.84       | 39.56        | 7.45 | 37.34  | 50.51  | 68.20  | -17.69 | VERTICAL  | Peak   |
| 6 | 15870.000 | 37.91       | 38.52        | 9.86 | 35.40  | 50.89  | 74.00  | -23.11 | VERTICAL  | Peak   |

Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



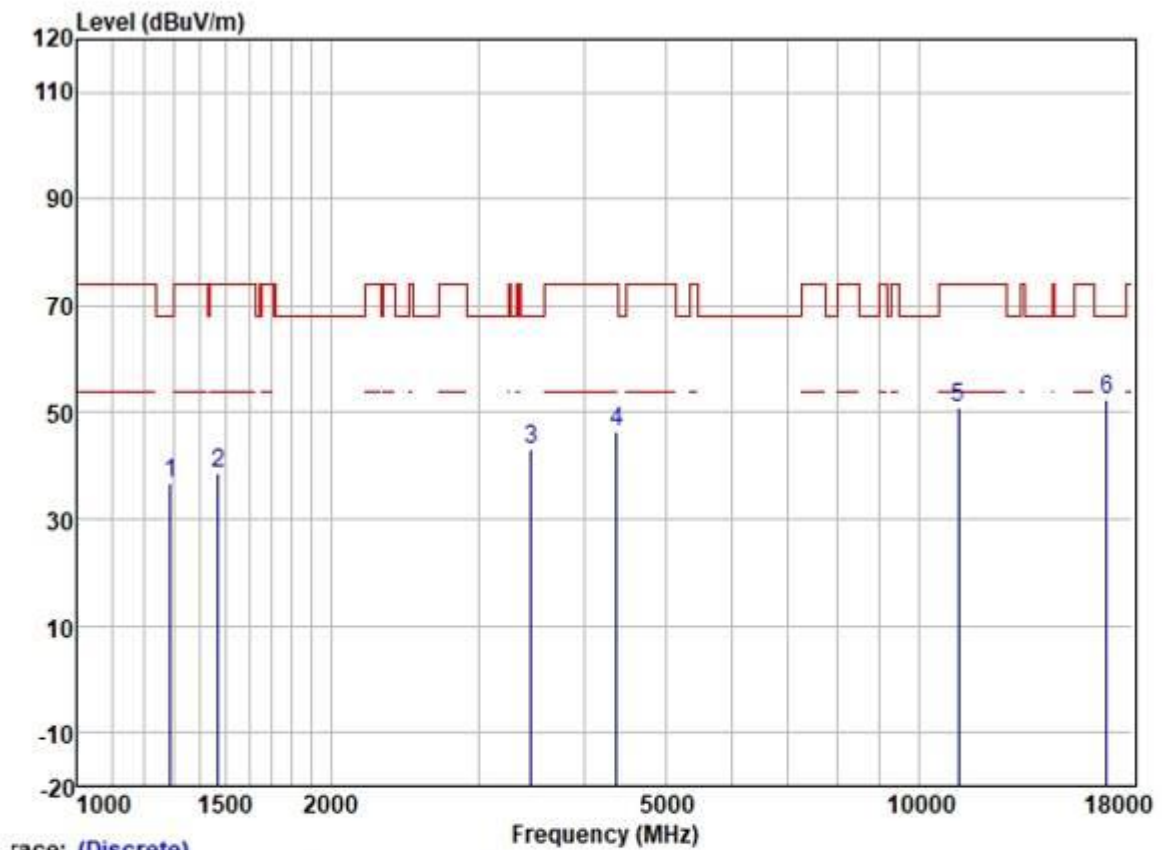
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |                 |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|-----------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark          |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |                 |
| 1 | 1297.103  | 47.09 | 25.19   | 2.58  | 38.31  | 36.55  | 68.20  | -31.65    | HORIZONTAL Peak |
| 2 | 1422.798  | 48.72 | 25.42   | 2.64  | 38.20  | 38.58  | 74.00  | -35.42    | HORIZONTAL Peak |
| 3 | 3465.510  | 47.14 | 28.88   | 4.22  | 36.95  | 43.29  | 68.20  | -24.91    | HORIZONTAL Peak |
| 4 | 4469.214  | 47.05 | 30.77   | 4.93  | 36.81  | 45.94  | 68.20  | -22.26    | HORIZONTAL Peak |
| 5 | 11000.000 | 40.22 | 40.10   | 7.71  | 37.25  | 50.78  | 74.00  | -23.22    | HORIZONTAL Peak |
| 6 | 16500.000 | 37.96 | 39.60   | 9.44  | 35.38  | 51.62  | 68.20  | -16.58    | HORIZONTAL Peak |

Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



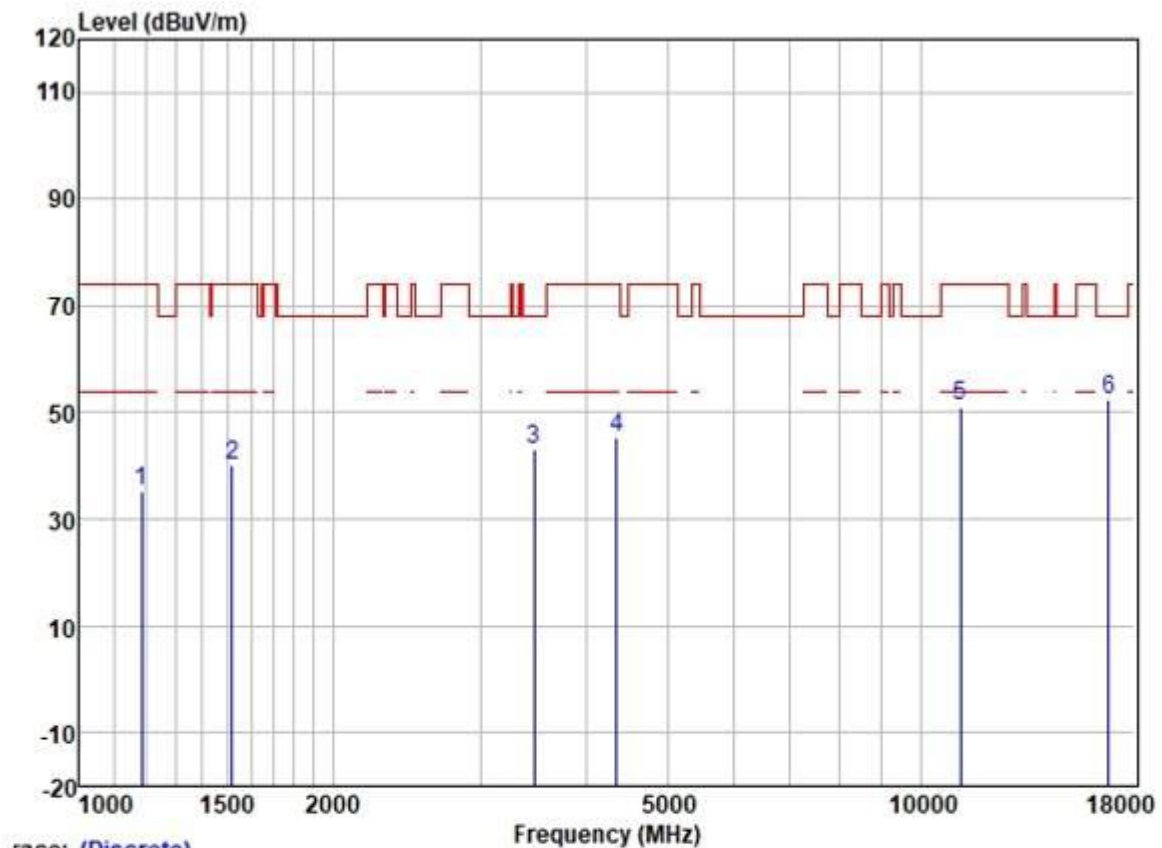
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1297.103  | 46.77 | 25.19   | 2.58  | 38.31  | 36.23  | 68.20  | -31.97    | VERTICAL Peak |
| 2 | 1520.598  | 47.66 | 25.51   | 2.80  | 38.07  | 37.90  | 74.00  | -36.10    | VERTICAL Peak |
| 3 | 3475.541  | 47.19 | 28.89   | 4.25  | 36.95  | 43.38  | 68.20  | -24.82    | VERTICAL Peak |
| 4 | 4469.214  | 47.28 | 30.77   | 4.93  | 36.81  | 46.17  | 68.20  | -22.03    | VERTICAL Peak |
| 5 | 11000.000 | 40.84 | 40.10   | 7.71  | 37.25  | 51.40  | 74.00  | -22.60    | VERTICAL Peak |
| 6 | 16500.000 | 38.09 | 39.60   | 9.44  | 35.38  | 51.75  | 68.20  | -16.45    | VERTICAL Peak |

Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



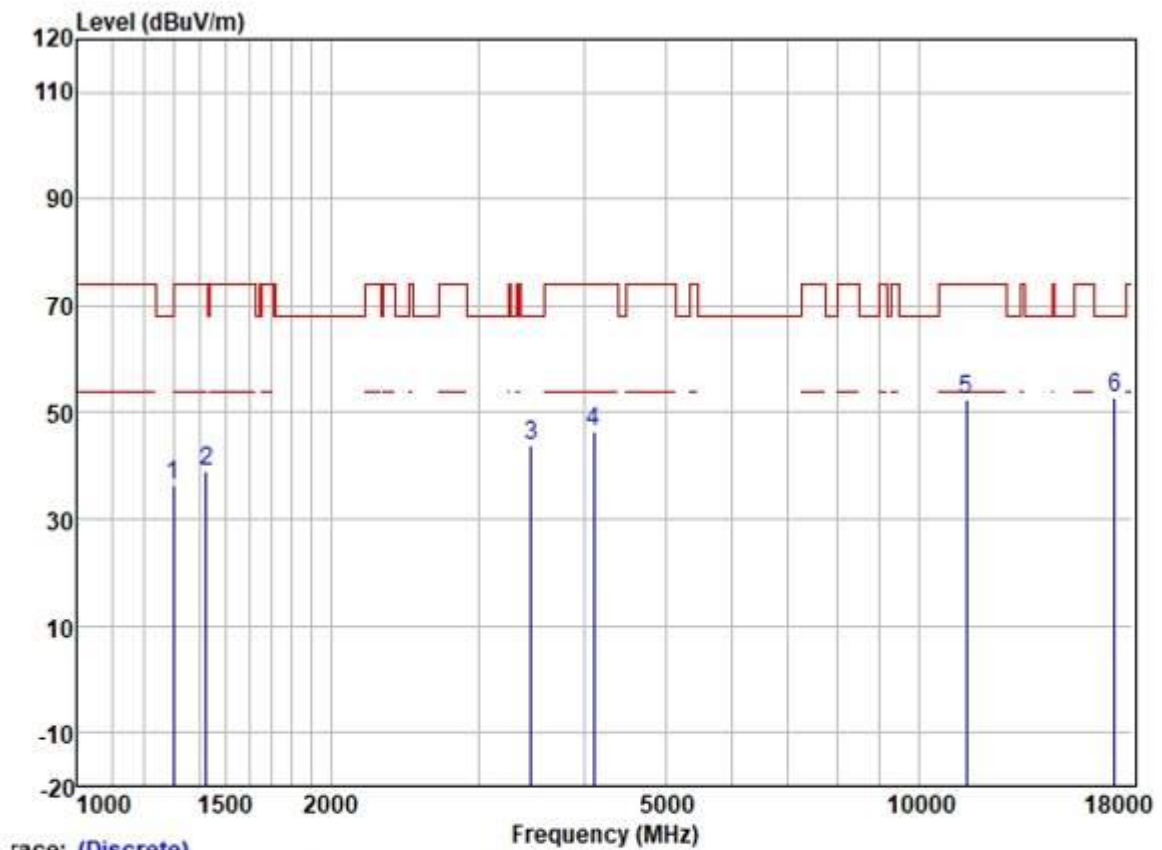
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1289.627  | 47.48       | 25.17  | 2.55  | 38.31  | 36.89  | 68.20  | -31.31 | HORIZONTAL | Peak   |
| 2 | 1468.761  | 48.59       | 25.47  | 2.75  | 38.13  | 38.68  | 74.00  | -35.32 | HORIZONTAL | Peak   |
| 3 | 3465.510  | 47.00       | 28.88  | 4.22  | 36.95  | 43.15  | 68.20  | -25.05 | HORIZONTAL | Peak   |
| 4 | 4379.699  | 47.82       | 30.64  | 4.69  | 36.81  | 46.34  | 74.00  | -27.66 | HORIZONTAL | Peak   |
| 5 | 11160.000 | 40.04       | 40.04  | 7.90  | 37.21  | 50.77  | 74.00  | -23.23 | HORIZONTAL | Peak   |
| 6 | 16740.000 | 38.01       | 40.49  | 9.41  | 35.37  | 52.54  | 68.20  | -15.66 | HORIZONTAL | Peak   |

Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



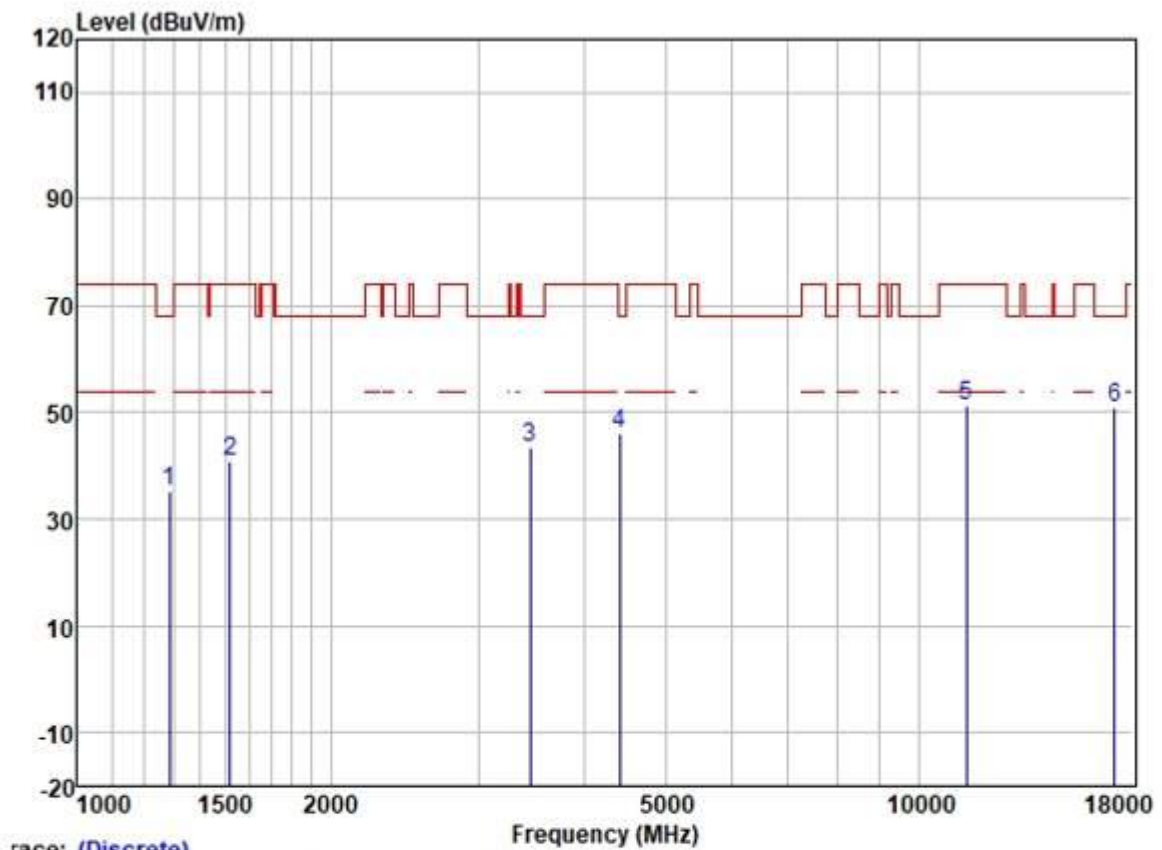
|   | Freq      | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |           |        |
|---|-----------|-------------|--------|--------|--------|--------|--------|--------|-----------|--------|
|   | MHz       | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1185.936  | 46.62       | 24.62  | 2.37   | 38.40  | 35.21  | 74.00  | -38.79 | VERTICAL  | Peak   |
| 2 | 1520.598  | 49.71       | 25.51  | 2.80   | 38.07  | 39.95  | 74.00  | -34.05 | VERTICAL  | Peak   |
| 3 | 3475.541  | 46.79       | 28.89  | 4.25   | 36.95  | 42.98  | 68.20  | -25.22 | VERTICAL  | Peak   |
| 4 | 4354.454  | 47.05       | 30.59  | 4.68   | 36.81  | 45.51  | 74.00  | -28.49 | VERTICAL  | Peak   |
| 5 | 11160.000 | 40.39       | 40.04  | 7.90   | 37.21  | 51.12  | 74.00  | -22.88 | VERTICAL  | Peak   |
| 6 | 16740.000 | 37.72       | 40.49  | 9.41   | 35.37  | 52.25  | 68.20  | -15.95 | VERTICAL  | Peak   |

Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



|   | Freq      | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |            |        |
|---|-----------|-------------|--------|--------|--------|--------|--------|--------|------------|--------|
|   | MHz       | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1300.858  | 46.91       | 25.20  | 2.60   | 38.31  | 36.40  | 74.00  | -37.60 | HORIZONTAL | Peak   |
| 2 | 1422.798  | 49.18       | 25.42  | 2.64   | 38.20  | 39.04  | 74.00  | -34.96 | HORIZONTAL | Peak   |
| 3 | 3465.510  | 47.59       | 28.88  | 4.22   | 36.95  | 43.74  | 68.20  | -24.46 | HORIZONTAL | Peak   |
| 4 | 4109.872  | 48.81       | 29.96  | 4.60   | 36.80  | 46.57  | 74.00  | -27.43 | HORIZONTAL | Peak   |
| 5 | 11400.000 | 41.53       | 39.94  | 8.28   | 37.16  | 52.59  | 74.00  | -21.41 | HORIZONTAL | Peak   |
| 6 | 17100.000 | 36.08       | 42.32  | 9.63   | 35.34  | 52.69  | 68.20  | -15.51 | HORIZONTAL | Peak   |

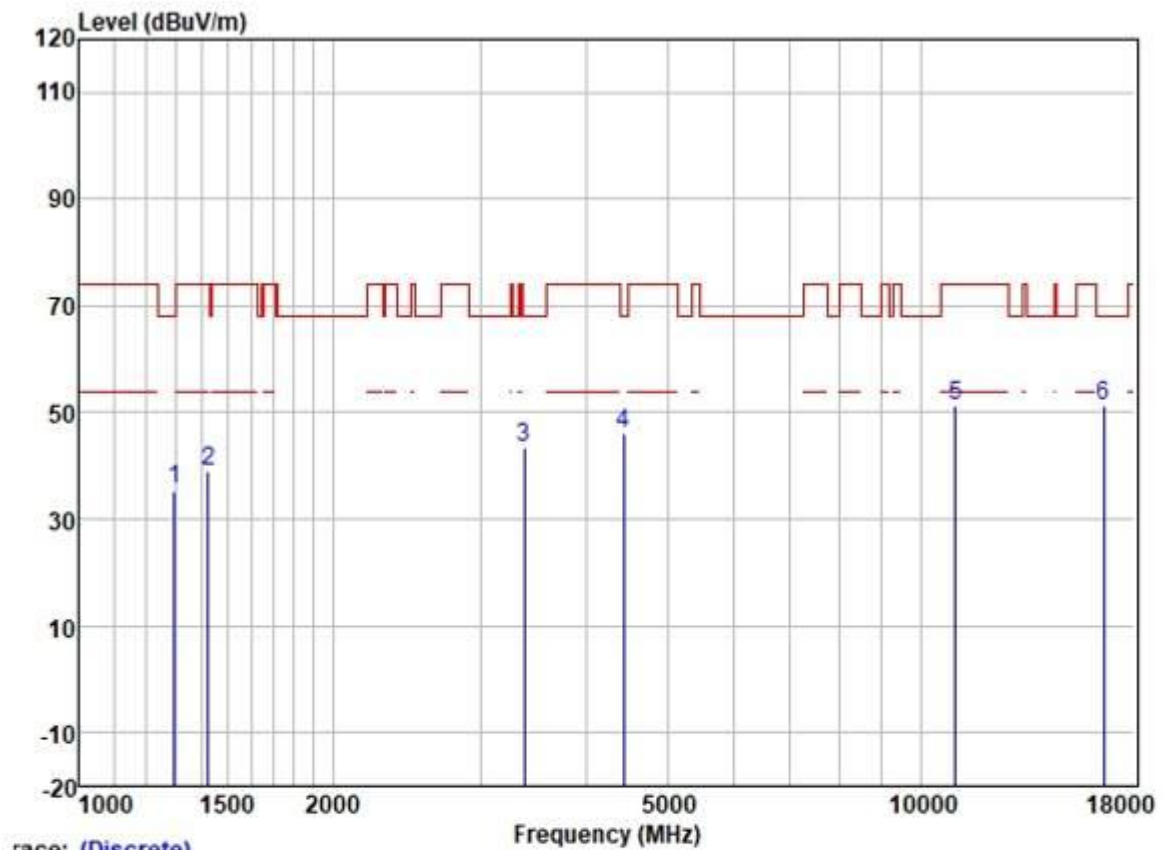
Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



race: (Discrete)

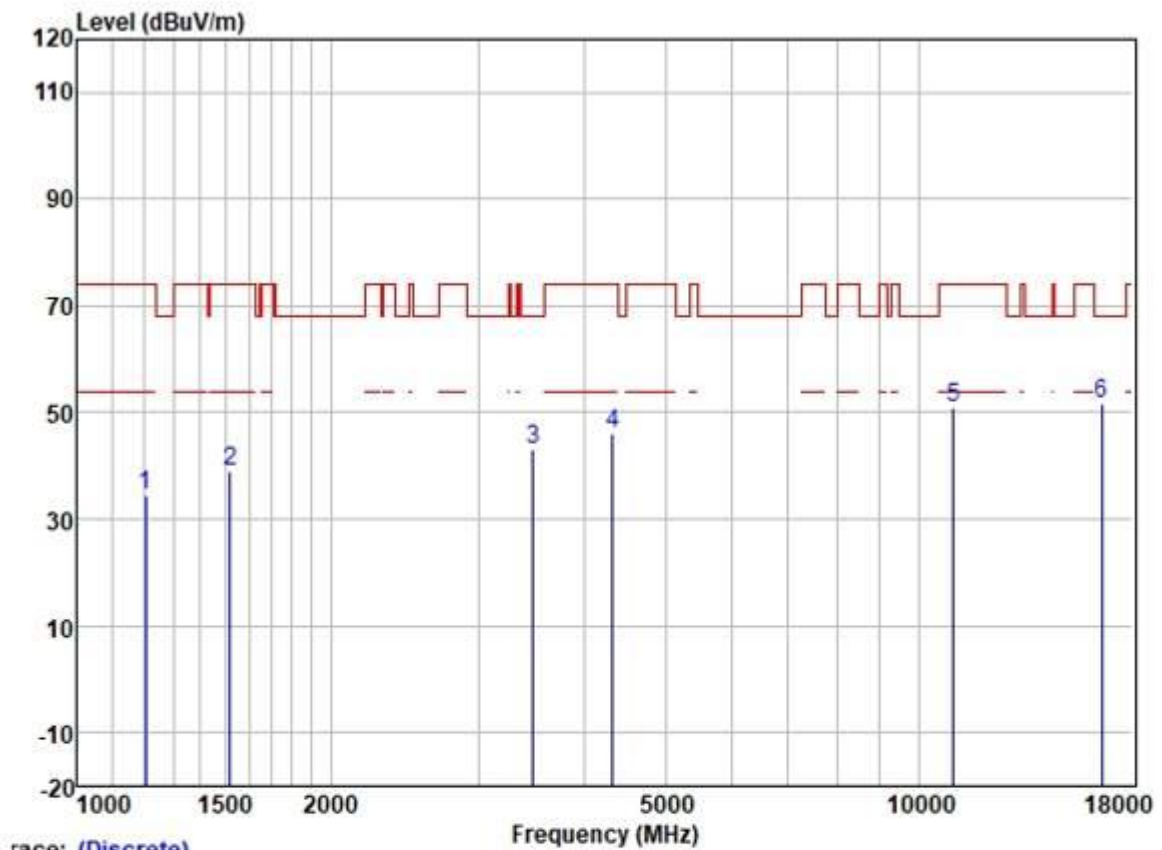
|   | Freq      | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |           |        |
|---|-----------|-------------|--------|--------|--------|--------|--------|--------|-----------|--------|
|   | MHz       | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1285.904  | 45.97       | 25.16  | 2.53   | 38.33  | 35.33  | 68.20  | -32.87 | VERTICAL  | Peak   |
| 2 | 1520.598  | 50.63       | 25.51  | 2.80   | 38.07  | 40.87  | 74.00  | -33.13 | VERTICAL  | Peak   |
| 3 | 3455.508  | 47.24       | 28.88  | 4.20   | 36.96  | 43.36  | 68.20  | -24.84 | VERTICAL  | Peak   |
| 4 | 4417.841  | 47.34       | 30.70  | 4.74   | 36.81  | 45.97  | 68.20  | -22.23 | VERTICAL  | Peak   |
| 5 | 11400.000 | 40.40       | 39.94  | 8.28   | 37.16  | 51.46  | 74.00  | -22.54 | VERTICAL  | Peak   |
| 6 | 17100.000 | 34.38       | 42.32  | 9.63   | 35.34  | 50.99  | 68.20  | -17.21 | VERTICAL  | Peak   |

Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



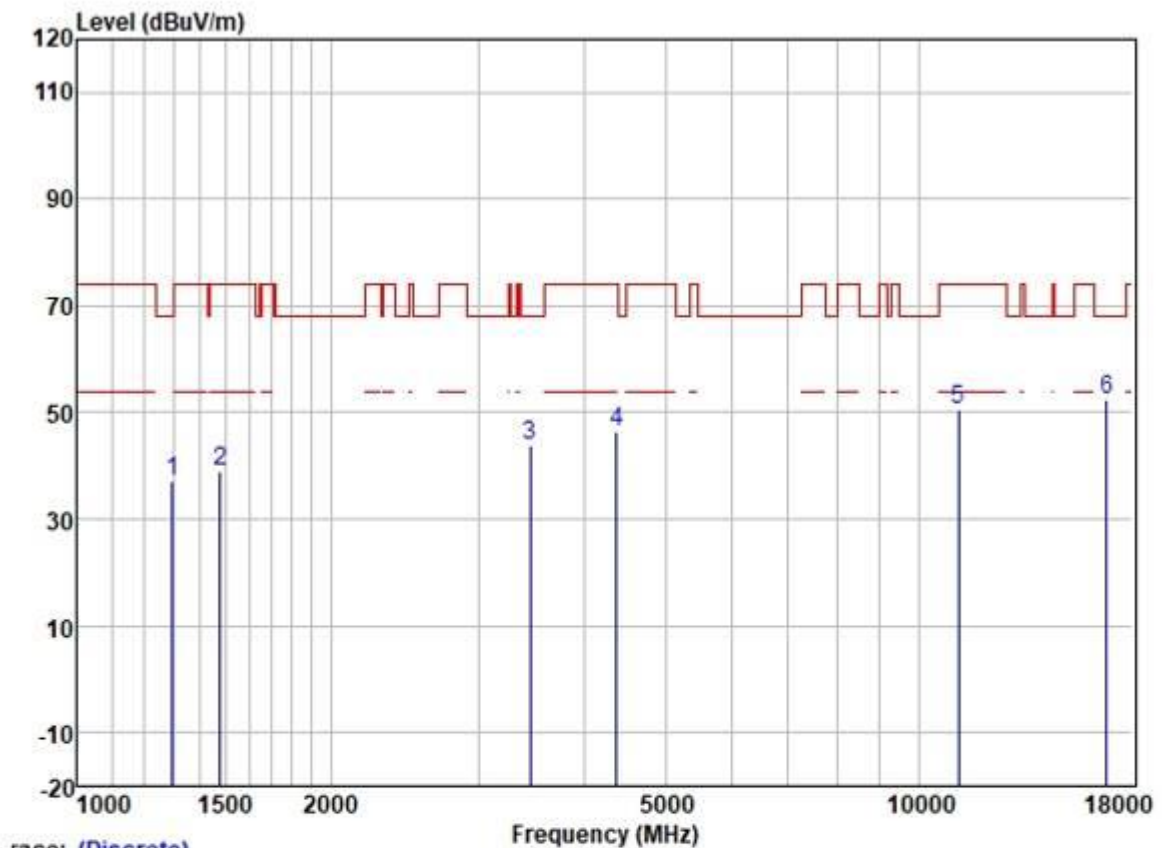
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |                 |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|-----------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark          |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |                 |
| 1 | 1297.103  | 45.98 | 25.19   | 2.58  | 38.31  | 35.44  | 68.20  | -32.76    | HORIZONTAL Peak |
| 2 | 1422.798  | 49.08 | 25.42   | 2.64  | 38.20  | 38.94  | 74.00  | -35.06    | HORIZONTAL Peak |
| 3 | 3376.523  | 47.65 | 28.83   | 4.09  | 36.99  | 43.58  | 68.20  | -24.62    | HORIZONTAL Peak |
| 4 | 4443.453  | 47.17 | 30.73   | 4.83  | 36.81  | 45.92  | 68.20  | -22.28    | HORIZONTAL Peak |
| 5 | 11000.000 | 40.74 | 40.10   | 7.71  | 37.25  | 51.30  | 74.00  | -22.70    | HORIZONTAL Peak |
| 6 | 16500.000 | 37.80 | 39.60   | 9.44  | 35.38  | 51.46  | 68.20  | -16.74    | HORIZONTAL Peak |

Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



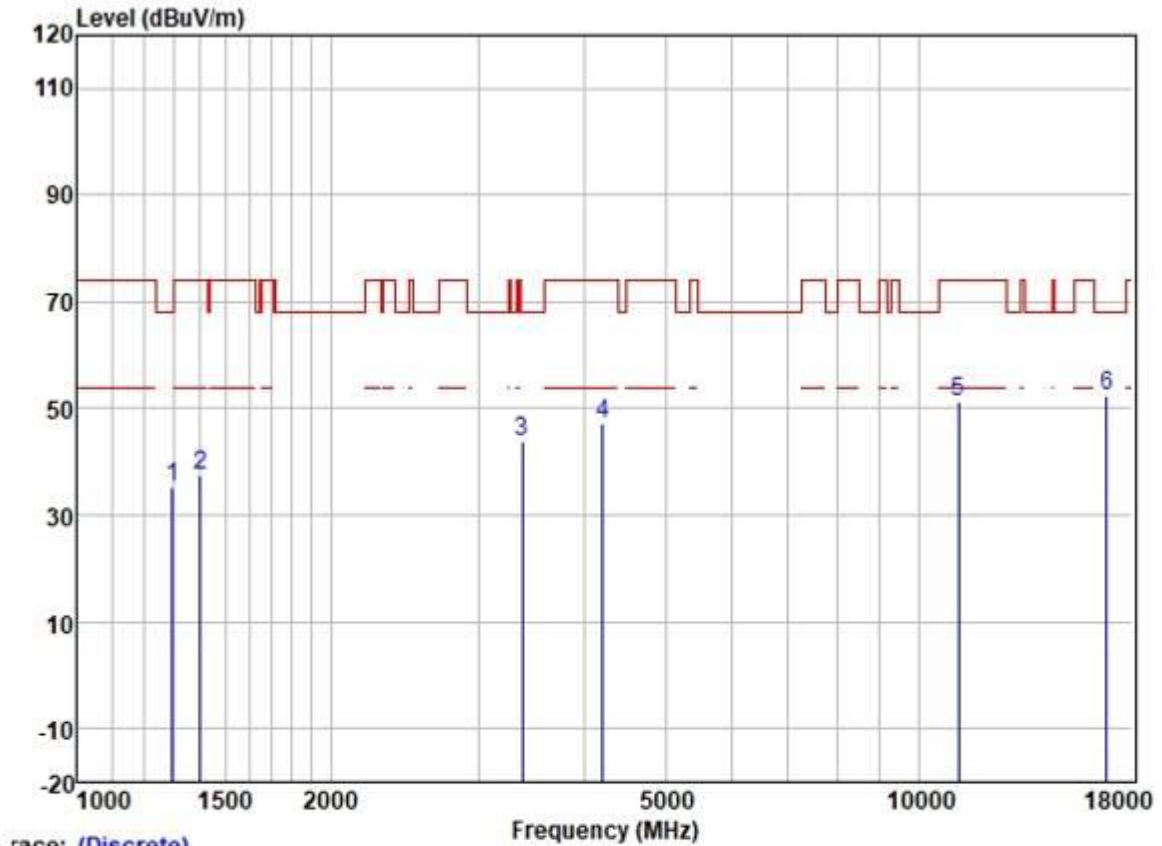
|   | Freq      | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |           |        |
|---|-----------|-------------|--------|--------|--------|--------|--------|--------|-----------|--------|
|   | MHz       | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1206.682  | 45.96       | 24.72  | 2.33   | 38.39  | 34.62  | 74.00  | -39.38 | VERTICAL  | Peak   |
| 2 | 1520.598  | 48.80       | 25.51  | 2.80   | 38.07  | 39.04  | 74.00  | -34.96 | VERTICAL  | Peak   |
| 3 | 3485.601  | 47.04       | 28.89  | 4.27   | 36.95  | 43.25  | 68.20  | -24.95 | VERTICAL  | Peak   |
| 4 | 4329.354  | 47.69       | 30.54  | 4.67   | 36.81  | 46.09  | 74.00  | -27.91 | VERTICAL  | Peak   |
| 5 | 11000.000 | 40.41       | 40.10  | 7.71   | 37.25  | 50.97  | 74.00  | -23.03 | VERTICAL  | Peak   |
| 6 | 16500.000 | 37.87       | 39.60  | 9.44   | 35.38  | 51.53  | 68.20  | -16.67 | VERTICAL  | Peak   |

Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



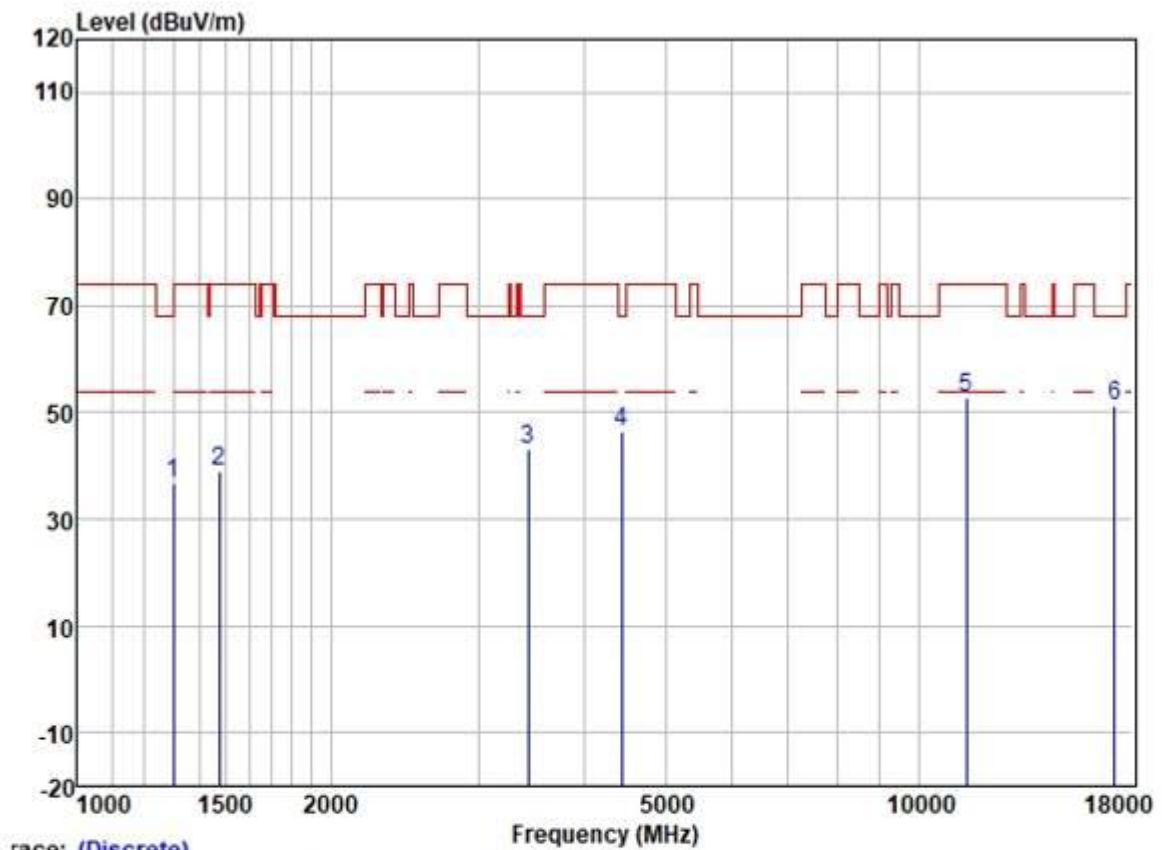
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |                 |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|-----------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark          |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |                 |
| 1 | 1297.103  | 47.82 | 25.19   | 2.58  | 38.31  | 37.28  | 68.20  | -30.92    | HORIZONTAL Peak |
| 2 | 1477.276  | 48.87 | 25.48   | 2.77  | 38.13  | 38.99  | 74.00  | -35.01    | HORIZONTAL Peak |
| 3 | 3455.508  | 47.66 | 28.88   | 4.20  | 36.96  | 43.78  | 68.20  | -24.42    | HORIZONTAL Peak |
| 4 | 4379.699  | 48.00 | 30.64   | 4.69  | 36.81  | 46.52  | 74.00  | -27.48    | HORIZONTAL Peak |
| 5 | 11160.000 | 39.75 | 40.04   | 7.90  | 37.21  | 50.48  | 74.00  | -23.52    | HORIZONTAL Peak |
| 6 | 16740.000 | 37.90 | 40.49   | 9.41  | 35.37  | 52.43  | 68.20  | -15.77    | HORIZONTAL Peak |

Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



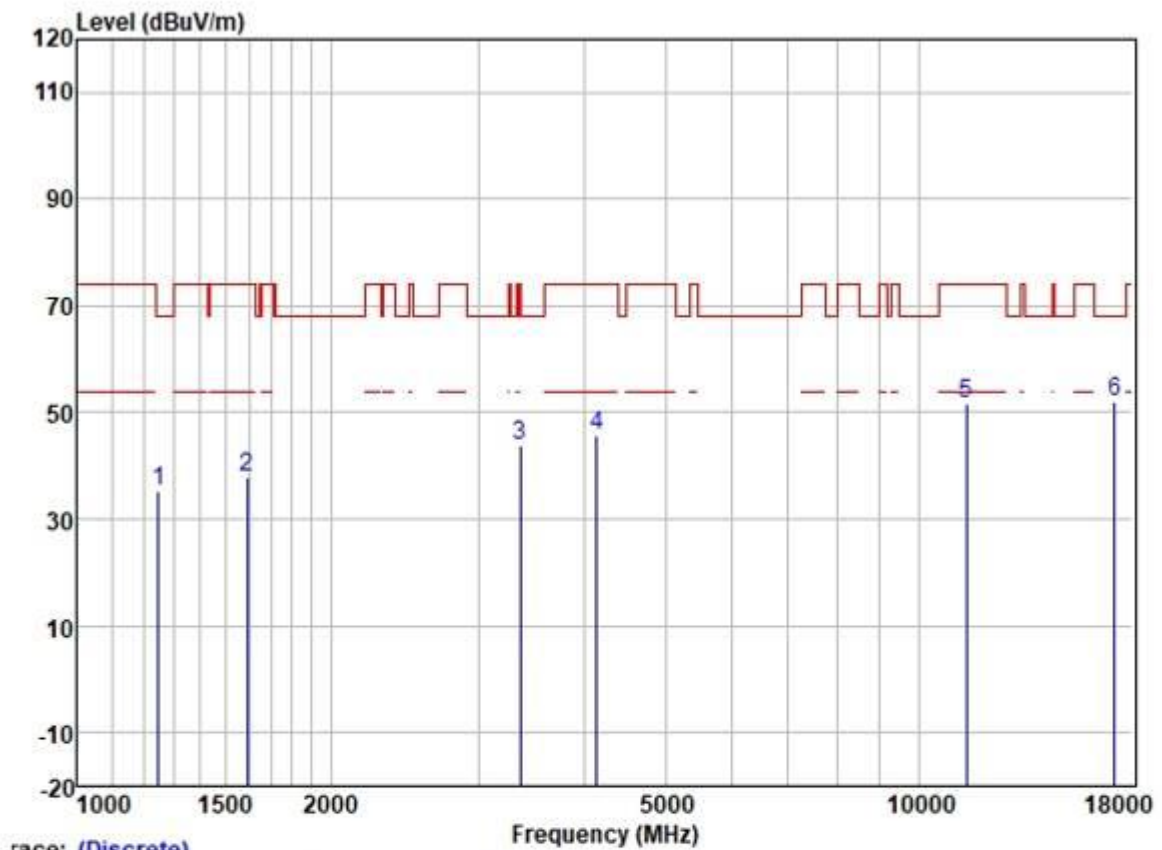
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1297.103  | 45.63 | 25.19   | 2.58  | 38.31  | 35.09  | 68.20  | -33.11    | VERTICAL Peak |
| 2 | 1398.336  | 47.88 | 25.39   | 2.60  | 38.22  | 37.65  | 74.00  | -36.35    | VERTICAL Peak |
| 3 | 3376.523  | 47.90 | 28.83   | 4.09  | 36.99  | 43.83  | 68.20  | -24.37    | VERTICAL Peak |
| 4 | 4218.186  | 49.02 | 30.22   | 4.60  | 36.81  | 47.03  | 74.00  | -26.97    | VERTICAL Peak |
| 5 | 11160.000 | 40.57 | 40.04   | 7.90  | 37.21  | 51.30  | 74.00  | -22.70    | VERTICAL Peak |
| 6 | 16740.000 | 38.02 | 40.49   | 9.41  | 35.37  | 52.55  | 68.20  | -15.65    | VERTICAL Peak |

Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



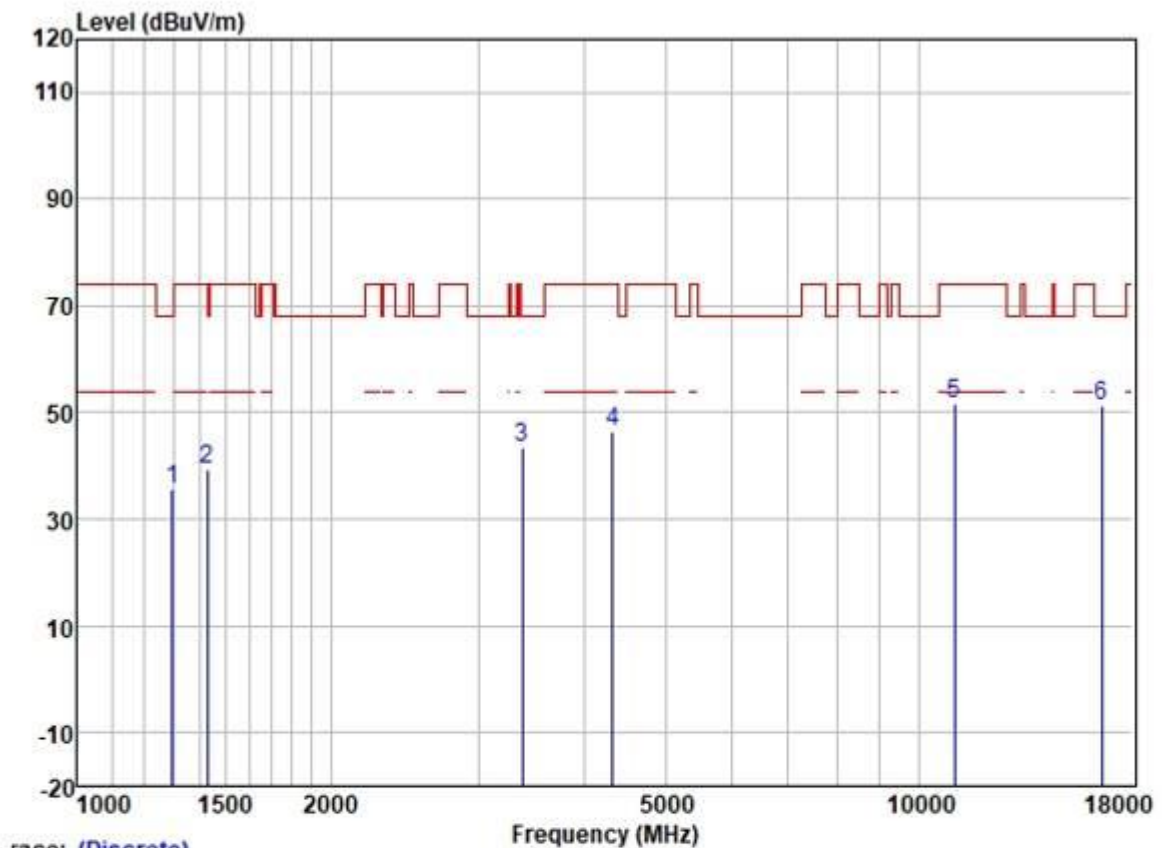
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |                 |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|-----------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark          |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |                 |
| 1 | 1300.858  | 47.39 | 25.20   | 2.60  | 38.31  | 36.88  | 74.00  | -37.12    | HORIZONTAL Peak |
| 2 | 1473.013  | 48.75 | 25.48   | 2.76  | 38.13  | 38.86  | 74.00  | -35.14    | HORIZONTAL Peak |
| 3 | 3435.590  | 47.15 | 28.87   | 4.16  | 36.97  | 43.21  | 68.20  | -24.99    | HORIZONTAL Peak |
| 4 | 4443.453  | 47.74 | 30.73   | 4.83  | 36.81  | 46.49  | 68.20  | -21.71    | HORIZONTAL Peak |
| 5 | 11400.000 | 41.78 | 39.94   | 8.28  | 37.16  | 52.84  | 74.00  | -21.16    | HORIZONTAL Peak |
| 6 | 17100.000 | 34.53 | 42.32   | 9.63  | 35.34  | 51.14  | 68.20  | -17.06    | HORIZONTAL Peak |

Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



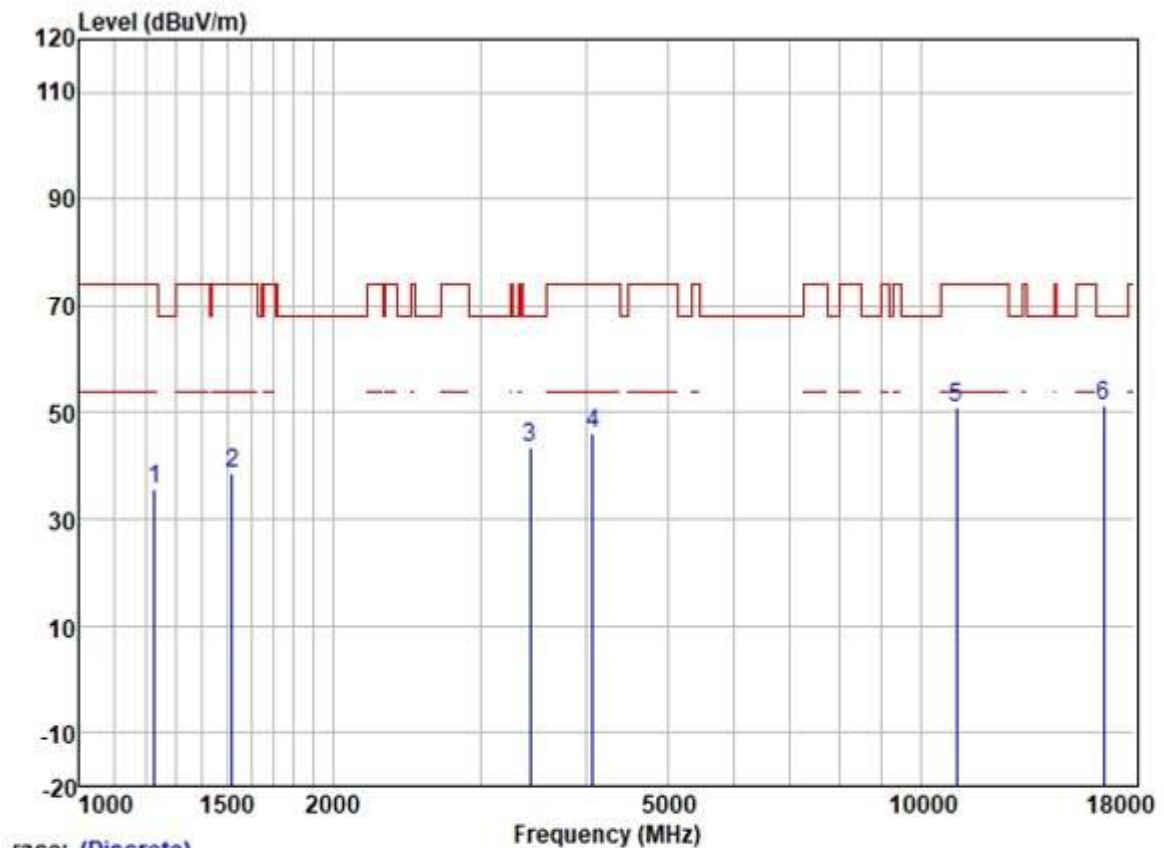
|   | Freq      | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |           |        |
|---|-----------|-------------|--------|--------|--------|--------|--------|--------|-----------|--------|
|   | MHz       | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1249.269  | 46.22       | 25.02  | 2.34   | 38.35  | 35.23  | 68.20  | -32.97 | VERTICAL  | Peak   |
| 2 | 1592.571  | 47.35       | 25.57  | 2.80   | 37.98  | 37.74  | 74.00  | -36.26 | VERTICAL  | Peak   |
| 3 | 3357.061  | 47.91       | 28.81  | 4.09   | 37.01  | 43.80  | 74.00  | -30.20 | VERTICAL  | Peak   |
| 4 | 4145.664  | 47.78       | 30.03  | 4.60   | 36.80  | 45.61  | 74.00  | -28.39 | VERTICAL  | Peak   |
| 5 | 11400.000 | 40.46       | 39.94  | 8.28   | 37.16  | 51.52  | 74.00  | -22.48 | VERTICAL  | Peak   |
| 6 | 17100.000 | 35.39       | 42.32  | 9.63   | 35.34  | 52.00  | 68.20  | -16.20 | VERTICAL  | Peak   |

Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



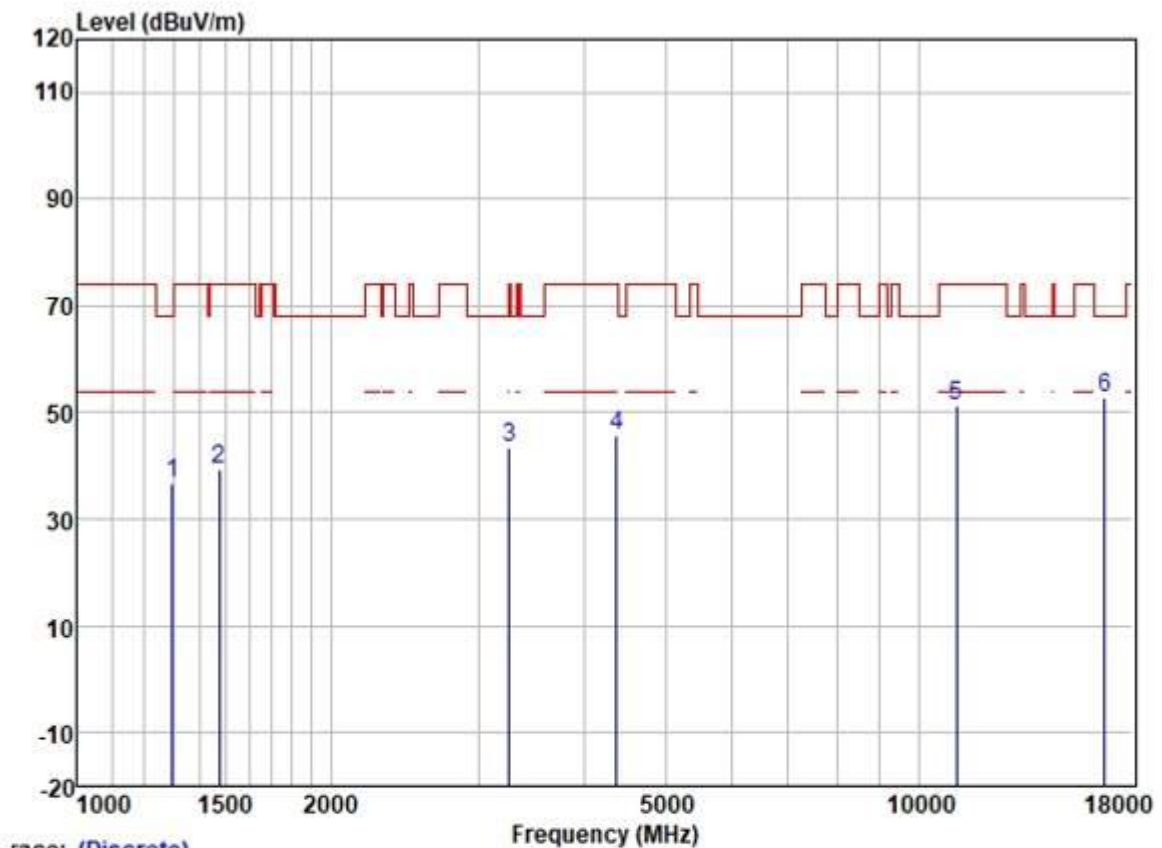
|   | Freq      | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Level  | Limit<br>Line | Over<br>Limit | Pol/Phase  | Remark |
|---|-----------|---------------|-------------------|---------------|------------------|--------|---------------|---------------|------------|--------|
|   | MHz       | dBuV          | dB/m              | dB            | dB               | dBuV/m | dBuV/m        | dB            |            |        |
| 1 | 1297.103  | 46.01         | 25.19             | 2.58          | 38.31            | 35.47  | 68.20         | -32.73        | HORIZONTAL | Peak   |
| 2 | 1426.916  | 49.50         | 25.43             | 2.65          | 38.20            | 39.38  | 74.00         | -34.62        | HORIZONTAL | Peak   |
| 3 | 3376.523  | 47.63         | 28.83             | 4.09          | 36.99            | 43.56  | 68.20         | -24.64        | HORIZONTAL | Peak   |
| 4 | 4329.354  | 47.93         | 30.54             | 4.67          | 36.81            | 46.33  | 74.00         | -27.67        | HORIZONTAL | Peak   |
| 5 | 11020.000 | 41.00         | 40.10             | 7.71          | 37.24            | 51.57  | 74.00         | -22.43        | HORIZONTAL | Peak   |
| 6 | 16530.000 | 37.44         | 39.76             | 9.44          | 35.38            | 51.26  | 68.20         | -16.94        | HORIZONTAL | Peak   |

Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



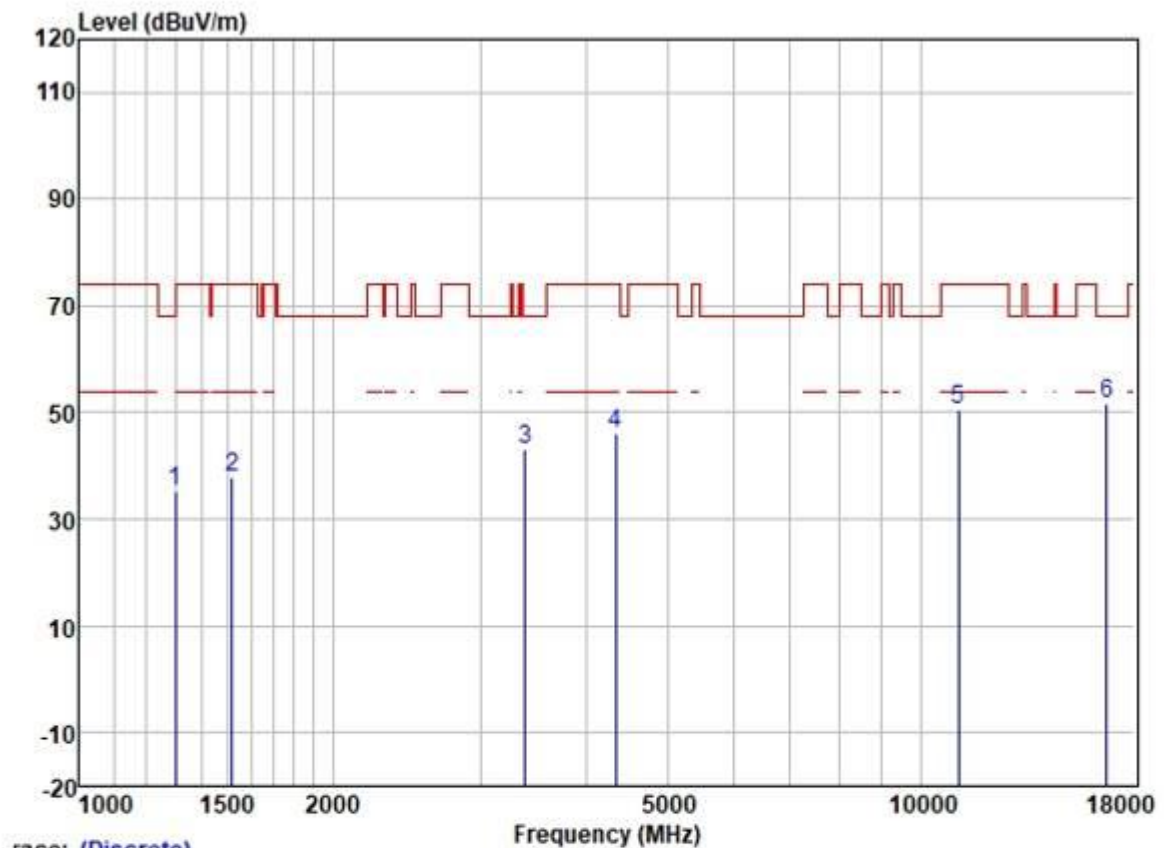
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1227.791  | 46.99 | 24.88   | 2.31  | 38.37  | 35.81  | 74.00  | -38.19    | VERTICAL Peak |
| 2 | 1520.598  | 48.54 | 25.51   | 2.80  | 38.07  | 38.78  | 74.00  | -35.22    | VERTICAL Peak |
| 3 | 3435.590  | 47.45 | 28.87   | 4.16  | 36.97  | 43.51  | 68.20  | -24.69    | VERTICAL Peak |
| 4 | 4074.388  | 48.51 | 29.90   | 4.60  | 36.80  | 46.21  | 74.00  | -27.79    | VERTICAL Peak |
| 5 | 11020.000 | 40.20 | 40.10   | 7.71  | 37.24  | 50.77  | 74.00  | -23.23    | VERTICAL Peak |
| 6 | 16530.000 | 37.31 | 39.76   | 9.44  | 35.38  | 51.13  | 68.20  | -17.07    | VERTICAL Peak |

Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



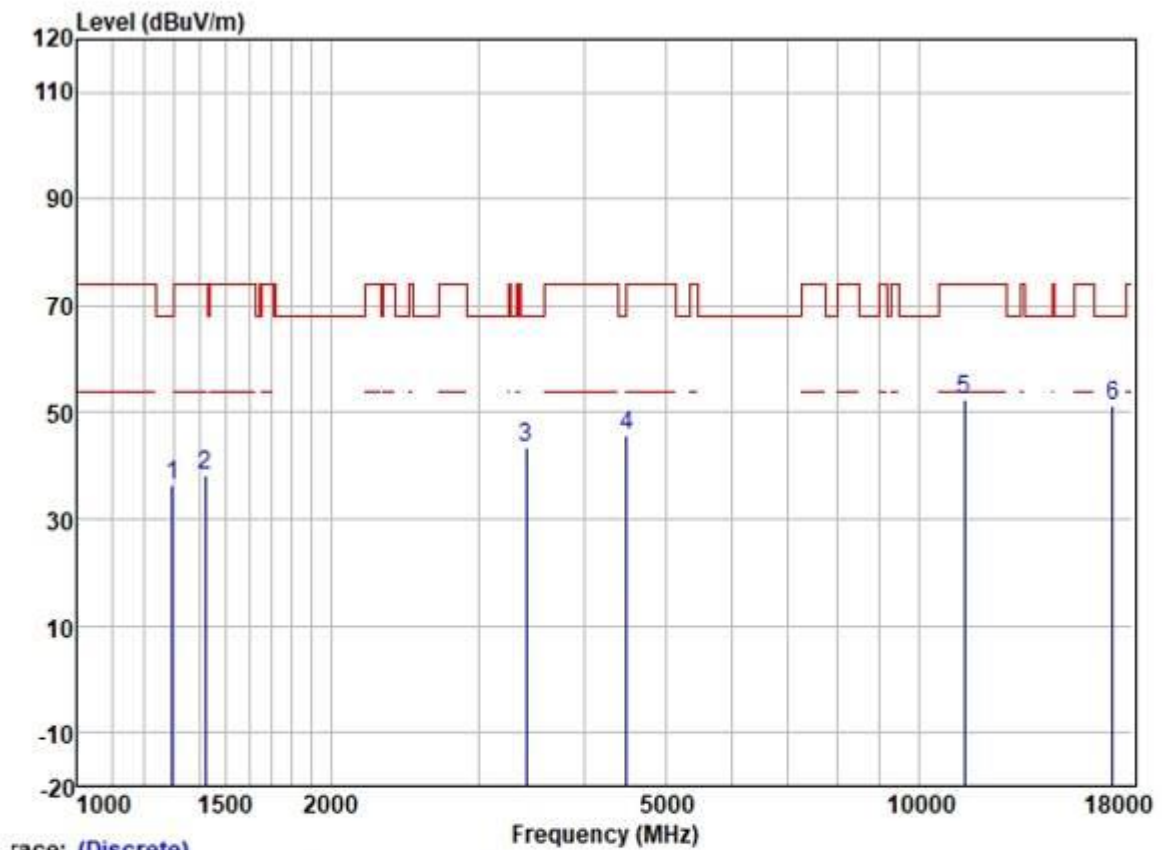
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |                 |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|-----------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Level  | Limit  | Pol/Phase | Remark          |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |                 |
| 1 | 1297.103  | 47.38 | 25.19   | 2.58  | 38.31  | 36.84  | 68.20  | -31.36    | HORIZONTAL Peak |
| 2 | 1473.013  | 49.32 | 25.48   | 2.76  | 38.13  | 39.43  | 74.00  | -34.57    | HORIZONTAL Peak |
| 3 | 3261.418  | 47.82 | 28.70   | 4.03  | 37.06  | 43.49  | 74.00  | -30.51    | HORIZONTAL Peak |
| 4 | 4379.699  | 47.25 | 30.64   | 4.69  | 36.81  | 45.77  | 74.00  | -28.23    | HORIZONTAL Peak |
| 5 | 11100.000 | 40.57 | 40.07   | 7.82  | 37.22  | 51.24  | 74.00  | -22.76    | HORIZONTAL Peak |
| 6 | 16650.000 | 38.51 | 40.10   | 9.43  | 35.38  | 52.66  | 68.20  | -15.54    | HORIZONTAL Peak |

Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



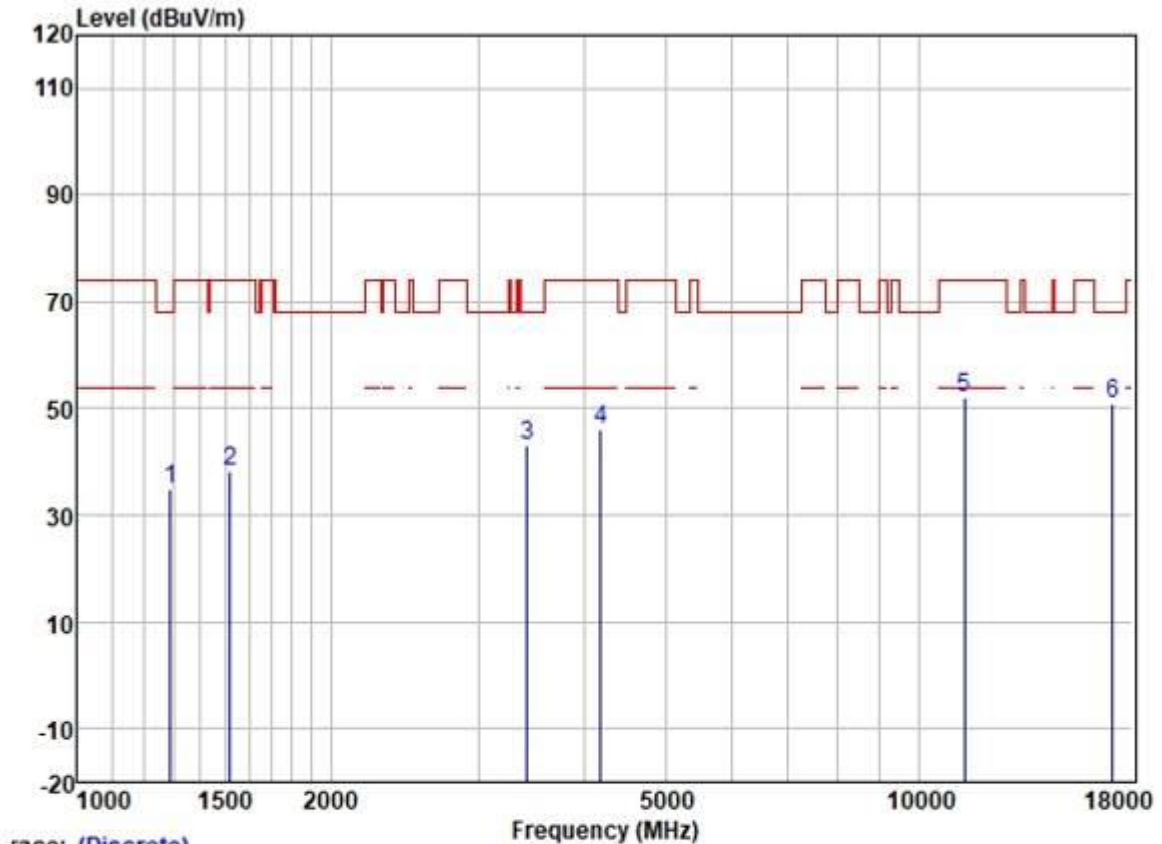
|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |           |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1300.858  | 45.85       | 25.20  | 2.60  | 38.31  | 35.34  | 74.00  | -38.66 | VERTICAL  | Peak   |
| 2 | 1520.598  | 47.53       | 25.51  | 2.80  | 38.07  | 37.77  | 74.00  | -36.23 | VERTICAL  | Peak   |
| 3 | 3386.297  | 47.20       | 28.83  | 4.10  | 36.99  | 43.14  | 68.20  | -25.06 | VERTICAL  | Peak   |
| 4 | 4341.886  | 47.50       | 30.57  | 4.67  | 36.81  | 45.93  | 74.00  | -28.07 | VERTICAL  | Peak   |
| 5 | 11100.000 | 39.79       | 40.07  | 7.82  | 37.22  | 50.46  | 74.00  | -23.54 | VERTICAL  | Peak   |
| 6 | 16650.000 | 37.50       | 40.10  | 9.43  | 35.38  | 51.65  | 68.20  | -16.55 | VERTICAL  | Peak   |

Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |                 |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|-----------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark          |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |                 |
| 1 | 1297.103  | 47.08 | 25.19   | 2.58  | 38.31  | 36.54  | 68.20  | -31.66    | HORIZONTAL Peak |
| 2 | 1418.692  | 48.22 | 25.42   | 2.63  | 38.20  | 38.07  | 74.00  | -35.93    | HORIZONTAL Peak |
| 3 | 3415.787  | 47.51 | 28.85   | 4.13  | 36.97  | 43.52  | 68.20  | -24.68    | HORIZONTAL Peak |
| 4 | 4495.125  | 46.60 | 30.80   | 5.05  | 36.82  | 45.63  | 68.20  | -22.57    | HORIZONTAL Peak |
| 5 | 11340.000 | 41.28 | 39.97   | 8.18  | 37.17  | 52.26  | 74.00  | -21.74    | HORIZONTAL Peak |
| 6 | 17010.000 | 35.70 | 41.75   | 9.39  | 35.35  | 51.49  | 68.20  | -16.71    | HORIZONTAL Peak |

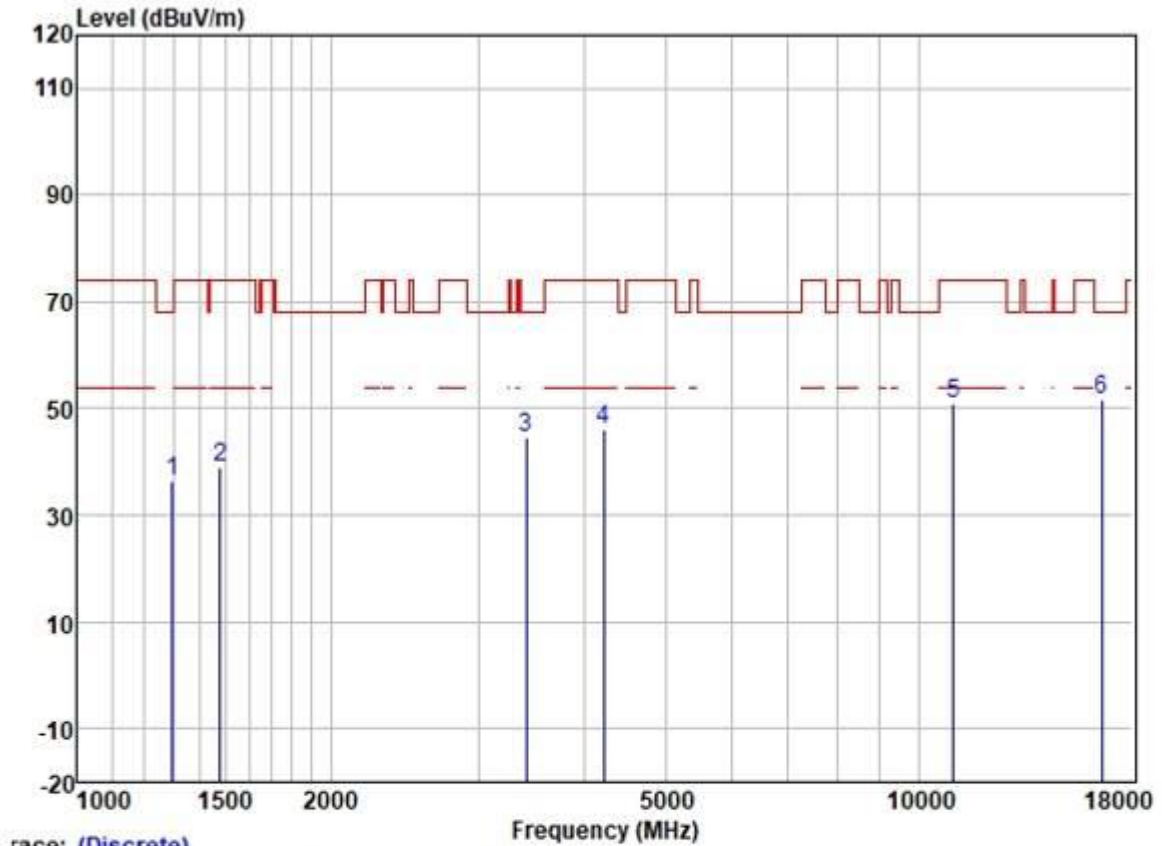
Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

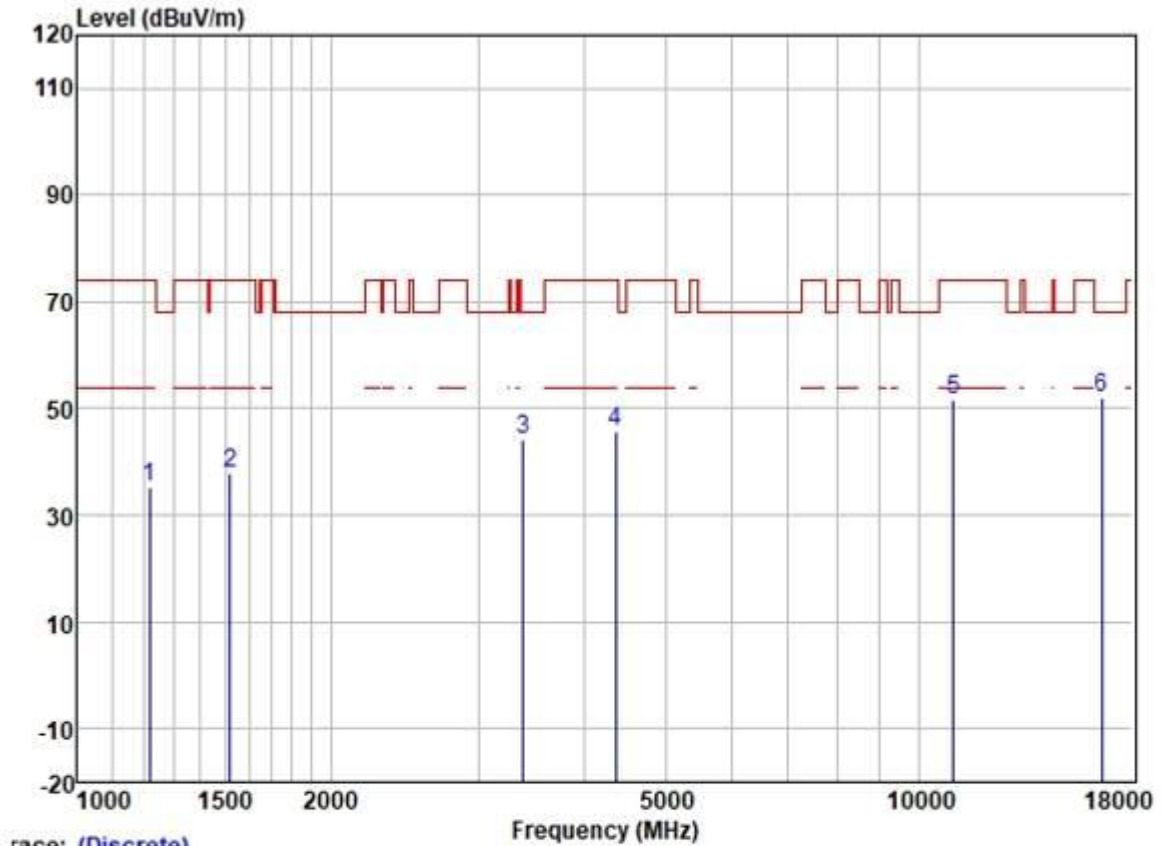
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1289.627  | 45.36 | 25.17   | 2.55  | 38.31  | 34.77  | 68.20  | -33.43    | VERTICAL Peak |
| 2 | 1520.598  | 48.14 | 25.51   | 2.80  | 38.07  | 38.38  | 74.00  | -35.62    | VERTICAL Peak |
| 3 | 3425.675  | 47.08 | 28.86   | 4.15  | 36.97  | 43.12  | 68.20  | -25.08    | VERTICAL Peak |
| 4 | 4193.872  | 48.22 | 30.15   | 4.60  | 36.81  | 46.16  | 74.00  | -27.84    | VERTICAL Peak |
| 5 | 11340.000 | 41.04 | 39.97   | 8.18  | 37.17  | 52.02  | 74.00  | -21.98    | VERTICAL Peak |
| 6 | 17010.000 | 35.07 | 41.75   | 9.39  | 35.35  | 50.86  | 68.20  | -17.34    | VERTICAL Peak |

Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



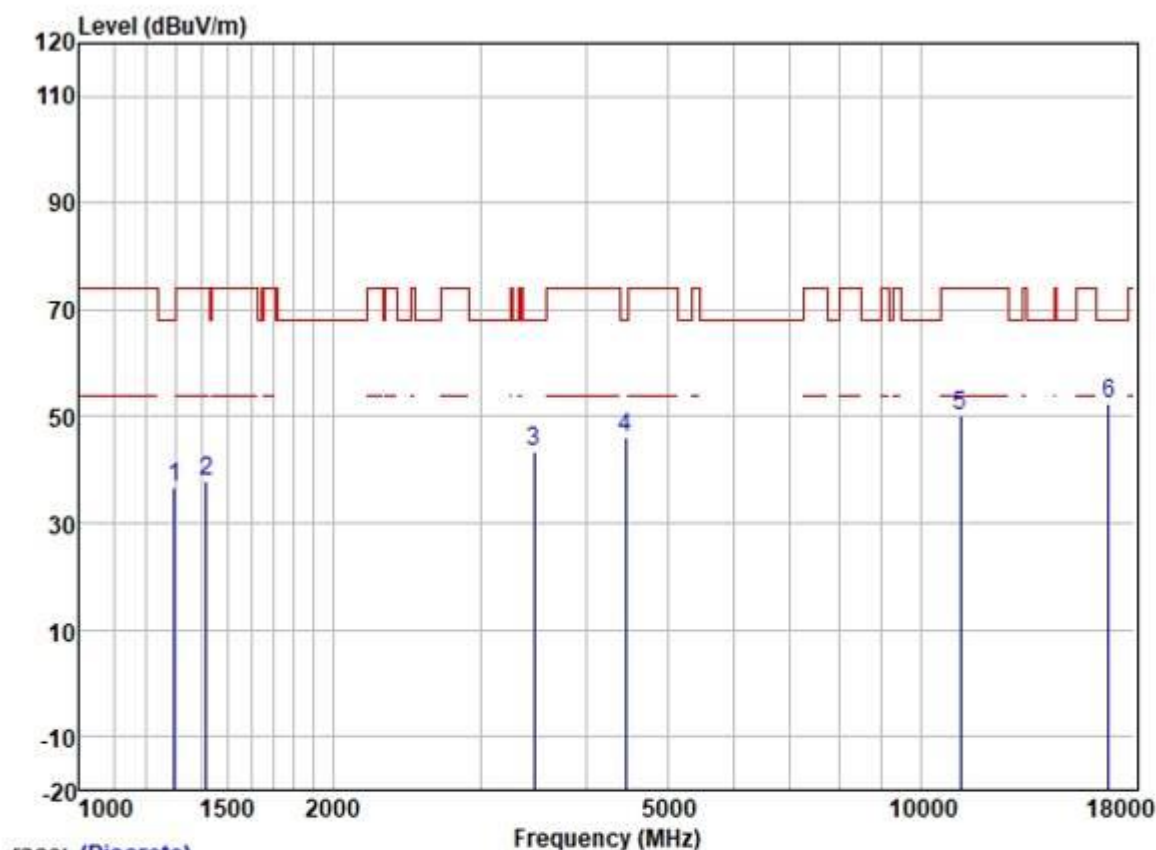
|   | Freq      | ReadAntenna<br>Level Factor | Cable Preamp<br>Loss Factor | Level | Limit<br>Line | Over<br>Limit | Pol/Phase | Remark |                 |
|---|-----------|-----------------------------|-----------------------------|-------|---------------|---------------|-----------|--------|-----------------|
|   | MHz       | dBuV                        | dB/m                        | dB    | dB            | dBuV/m        | dBuV/m    | dB     |                 |
| 1 | 1297.103  | 46.73                       | 25.19                       | 2.58  | 38.31         | 36.19         | 68.20     | -32.01 | HORIZONTAL Peak |
| 2 | 1477.276  | 49.00                       | 25.48                       | 2.77  | 38.13         | 39.12         | 74.00     | -34.88 | HORIZONTAL Peak |
| 3 | 3415.787  | 48.42                       | 28.85                       | 4.13  | 36.97         | 44.43         | 68.20     | -23.77 | HORIZONTAL Peak |
| 4 | 4230.396  | 48.00                       | 30.26                       | 4.61  | 36.81         | 46.06         | 74.00     | -27.94 | HORIZONTAL Peak |
| 5 | 11000.000 | 40.38                       | 40.10                       | 7.71  | 37.25         | 50.94         | 74.00     | -23.06 | HORIZONTAL Peak |
| 6 | 16500.000 | 38.02                       | 39.60                       | 9.44  | 35.38         | 51.68         | 68.20     | -16.52 | HORIZONTAL Peak |

Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



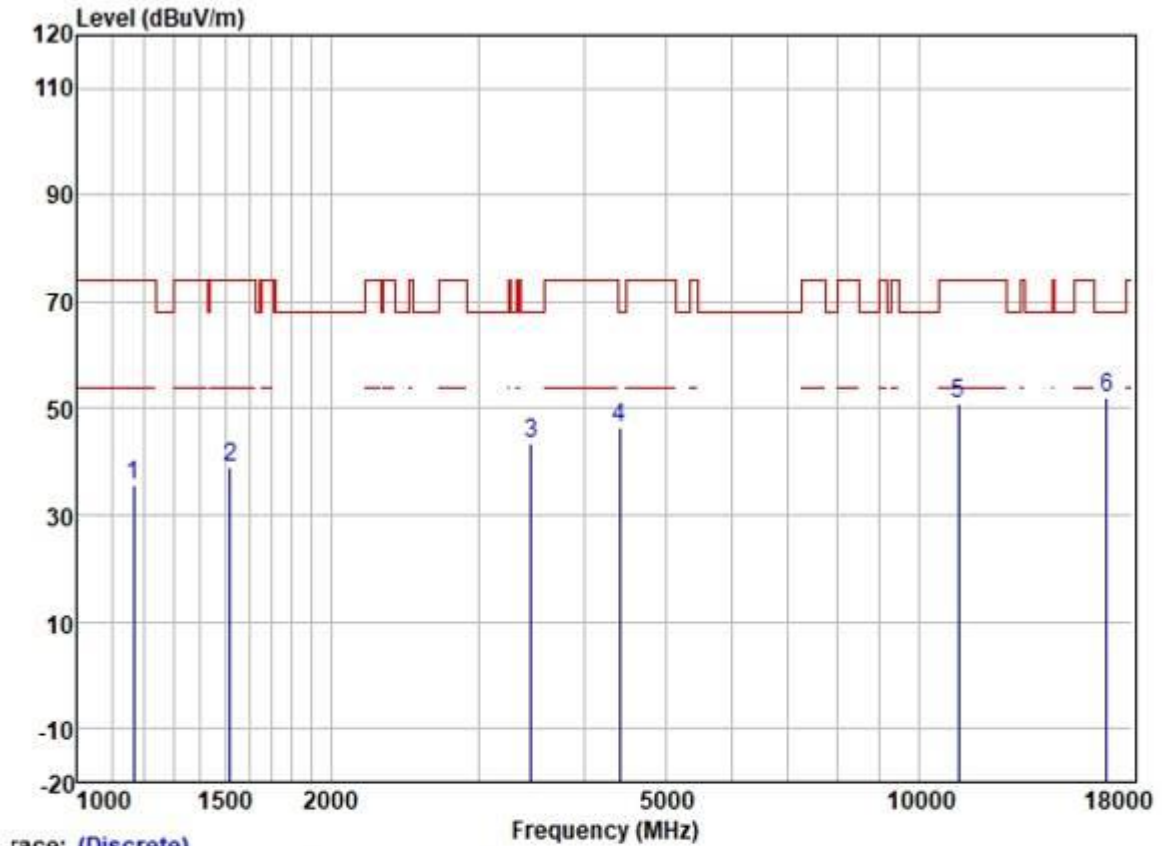
|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1217.190  | 46.51 | 24.79   | 2.32  | 38.37  | 35.25  | 74.00  | -38.75    | VERTICAL Peak |
| 2 | 1520.598  | 47.62 | 25.51   | 2.80  | 38.07  | 37.86  | 74.00  | -36.14    | VERTICAL Peak |
| 3 | 3386.297  | 48.33 | 28.83   | 4.10  | 36.99  | 44.27  | 68.20  | -23.93    | VERTICAL Peak |
| 4 | 4367.058  | 47.24 | 30.62   | 4.68  | 36.81  | 45.73  | 74.00  | -28.27    | VERTICAL Peak |
| 5 | 11000.000 | 41.29 | 40.10   | 7.71  | 37.25  | 51.85  | 74.00  | -22.15    | VERTICAL Peak |
| 6 | 16500.000 | 38.23 | 39.60   | 9.44  | 35.38  | 51.89  | 68.20  | -16.31    | VERTICAL Peak |

Test Mode: 17; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



|   |           | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq      | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz       | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1297.103  | 47.12       | 25.19  | 2.58  | 38.31  | 36.58  | 68.20  | -31.62 | HORIZONTAL | Peak   |
| 2 | 1414.597  | 47.86       | 25.41  | 2.63  | 38.20  | 37.70  | 74.00  | -36.30 | HORIZONTAL | Peak   |
| 3 | 3475.541  | 47.24       | 28.89  | 4.25  | 36.95  | 43.43  | 68.20  | -24.77 | HORIZONTAL | Peak   |
| 4 | 4456.315  | 47.37       | 30.75  | 4.88  | 36.81  | 46.19  | 68.20  | -22.01 | HORIZONTAL | Peak   |
| 5 | 11160.000 | 39.63       | 40.04  | 7.90  | 37.21  | 50.36  | 74.00  | -23.64 | HORIZONTAL | Peak   |
| 6 | 16740.000 | 37.80       | 40.49  | 9.41  | 35.37  | 52.33  | 68.20  | -15.87 | HORIZONTAL | Peak   |

Test Mode: 17; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1165.546  | 47.26 | 24.54   | 2.39  | 38.40  | 35.79  | 74.00  | -38.21    | VERTICAL Peak |
| 2 | 1520.598  | 48.73 | 25.51   | 2.80  | 38.07  | 38.97  | 74.00  | -35.03    | VERTICAL Peak |
| 3 | 3465.510  | 47.33 | 28.88   | 4.22  | 36.95  | 43.48  | 68.20  | -24.72    | VERTICAL Peak |
| 4 | 4417.841  | 47.92 | 30.70   | 4.74  | 36.81  | 46.55  | 68.20  | -21.65    | VERTICAL Peak |
| 5 | 11160.000 | 40.20 | 40.04   | 7.90  | 37.21  | 50.93  | 74.00  | -23.07    | VERTICAL Peak |
| 6 | 16740.000 | 37.57 | 40.49   | 9.41  | 35.37  | 52.10  | 68.20  | -16.10    | VERTICAL Peak |