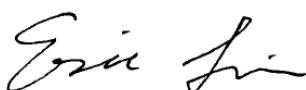


TEST REPORT

| | |
|------------------------------------|--|
| Application No.: | KSCR2206000922AT |
| FCC ID: | 2AL8S-0302C3XN-2 |
| Applicant: | ZHEJIANG UNIVIEW TECHNOLOGIES CO., LTD |
| Address of Applicant: | 88 JIANGLING ROAD, XIXING TOWN, BINJIANG DISTRICT, HANGZHOU CITY |
| Manufacturer: | ZHEJIANG UNIVIEW TECHNOLOGIES CO., LTD |
| Address of Manufacturer: | 88 JIANGLING ROAD, XIXING TOWN, BINJIANG DISTRICT, HANGZHOU CITY |
| Factory: | Zhejiang Uniview System Technology Co., Ltd. |
| Address of Factory: | No.1277 Qingfeng South Road (South), Tongxiang Economic Development Zone, 314500 TongxiangCity, Jiaxing City, PEOPLE'S REPUBLIC OF CHINA |
| Equipment Under Test (EUT): | |
| EUT Name: | WiFi Module |
| Model No.: | BL-M8822CU3 |
| Standard(s) : | 47 CFR Part 15, Subpart E 15.407 |
| Date of Receipt: | 2022-06-06 |
| Date of Test: | 2022-07-01 to 2022-07-11 |
| Date of Issue: | 2022-07-12 |
| Test Result: | Pass* |

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



Eric Lin
Laboratory Manager



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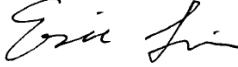
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| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2022-07-12 | | Original |
| | | | | |
| | | | | |

| | | | |
|--------------------------|--|---------------------------|--|
| Authorized for issue by: | | | |
| |  | Eric Lin | |
| | | Eric_Liu/Project Engineer | |
| |  | Eric Lin | |
| | | Eric Lin/Reviewer | |

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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 E 15.407 (c) | Pass |

| Radio Spectrum Matter Part | | | | |
|---|----------------------------------|--------------------------------|--|--------|
| Item | Standard | Method | Requirement | Result |
| Duty Cycle | 47 CFR Part 15, Subpart E 15.407 | KDB 789033 II B 1 | KDB 789033 D02 II B 1 | Pass |
| 26dB Emission bandwidth | | KDB 789033 D02 II C 1 | 47 CFR Part 15, Subpart E 15.407 (a) | Pass |
| Minimum 6 dB bandwidth (5.725-5.85 GHz band) | | KDB 789033 D02 II C 2 | 47 CFR Part 15, Subpart E 15.407 (e) | Pass |
| Maximum Conducted output power | | KDB 789033 D02 II E | 47 CFR Part 15, Subpart E 15.407 (a) | Pass |
| Peak Power spectrum density | | KDB 789033 D02 II F | 47 CFR Part 15, Subpart E 15.407 (a) | Pass |
| Radiated Emissions (Above 1GHz) | | KDB 789033 D02 II G | 47 CFR Part 15, Subpart C 15.209 & Subpart E 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 & Subpart E 15.407(b) | Pass |
| Frequency Stability | | ANSI C63.10 (2013) Section 6.8 | 47 CFR Part 15, Subpart E15.407 (g) | Pass |
| Radiated Emissions (Below 1GHz) | | KDB 789033 D02 II G | 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b) | Pass |

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Compliance & Certification Services (Kunshan) Inc.

Test Report Form Version: Rev01

Member of the SGS Group (SGS SA)

4 General Information

4.1 Details of E.U.T.

| | |
|------------------------------|---|
| Power supply: | DC 3.3V |
| Operation Frequency (20MHz): | U-NII-1: 5180-5240MHz; U-NII-3: 5745-5825MHz |
| Operation Frequency (40MHz): | U-NII-1: 5190-5230MHz; U-NII-3: 5755-5795MHz |
| Operation Frequency (80MHz): | U-NII-1: 5210MHz; U-NII-3: 5775MHz |
| Moudulation Type: | 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) |
| Channel Spacing: | 802.11a/n(HT20)/ac(VHT20): 20MHz; 802.11n(HT40)/ac(VHT40): 40MHz; 802.11ac(VHT80): 80MHz |
| Antenna Type: | Ant 1: PCB Antenna Ant 2: PCB Antenna |
| Antenna Gain: | Ant 1: U-NII-1 0.45dBi (Provided by manufacturer) U-NII-3 -1.03dBi (Provided by manufacturer) Ant 2: U-NII-1: -0.92dBi (Provided by manufacturer) U-NII-3: -1.69dBi (Provided by manufacturer) |

4.2 Power level setting using in test:

| Channel | 802.11a | | 802.11n(HT20) | | 802.11ac(VHT20) | |
|---------|---------------|-------|-----------------|-------|-----------------|-------|
| | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 |
| 36 | 55 | 76 | 46 | 67 | 46 | 67 |
| 40 | 55 | 76 | 46 | 67 | 46 | 67 |
| 48 | 55 | 73 | 46 | 64 | 46 | 64 |
| 149 | 64 | 45 | 55 | 39 | 55 | 39 |
| 157 | 61 | 42 | 52 | 36 | 52 | 36 |
| 165 | 58 | 41 | 49 | 35 | 49 | 35 |
| Channel | 802.11n(HT40) | | 802.11ac(VHT40) | | | |
| | Ant 1 | Ant 2 | Ant 1 | Ant 2 | | |
| 38 | 46 | 67 | 46 | 67 | | |
| 46 | 46 | 64 | 46 | 64 | | |
| 151 | 55 | 39 | 55 | 39 | | |
| 159 | 52 | 36 | 52 | 36 | | |

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Report No.: KSCR220600092202

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| | | |
|---------|-----------------|-------|
| Channel | 802.11ac(VHT80) | |
| | Ant 1 | Ant 2 |
| 42 | 46 | 67 |
| 155 | 52 | 36 |

4.3 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|------------|
| Notebook | Lenovo | -- | -- |

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4.4 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|--|
| 1 | Radio Frequency | 8.4×10^{-8} |
| 2 | Timeout | 2s |
| 3 | Duty Cycle | 0.37% |
| 4 | Occupied Bandwidth | 3% |
| 5 | RF Conducted Power | 0.6dB |
| 6 | RF Power Density | 2.9dB |
| 7 | Conducted Spurious Emissions | 0.75dB |
| 8 | RF Radiated Power | 5.2dB (Below 1GHz) 5.9dB (Above 1GHz) |
| 9 | Radiated Spurious Emission Test | 4.2dB (Below 30MHz) 4.5dB (30MHz-1GHz) 5.1dB (1GHz-18GHz) 5.4dB (Above 18GHz) |
| 10 | Temperature Test | 1°C |
| 11 | Humidity Test | 3% |
| 12 | Supply Voltages | 1.5% |
| 13 | Time | 3% |

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc) is provided by the applicant. (if applicable).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

4.6 Test Facility

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

• **CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• **FCC (Designation Number: CN1172)**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

• **ISED (CAB identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

• **VCCI (Member No.: 1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.7 Deviation from Standards

None



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4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

| Item | Equipment | Manufacturer | Model | Inventory No | Cal Date | Cal. Due Date |
|--------------------------|--------------------------------------|--------------------|--------------|-------------------|------------|---------------|
| RF Conducted Test | | | | | | |
| 1 | Spectrum Analyzer | Keysight | N9020A | KUS1911E004-2 | 10/11/2021 | 10/10/2022 |
| 2 | Spectrum Analyzer | Keysight | N9020A | KUS2001M001-2 | 09/17/2021 | 09/16/2022 |
| 3 | Spectrum Analyzer | Keysight | N9030B | KSEM021-1 | 01/22/2022 | 01/21/2023 |
| 4 | Signal Generator | R&S | SMW200A | KSEM020-1 | 10/12/2021 | 10/11/2022 |
| 5 | Signal Generator | Agilent | N5182A | KUS2001M001-1 | 08/27/2021 | 08/26/2022 |
| 6 | Radio Communication Test Station | Anritsu | MT8000A | KSEM001-1 | 09/23/2021 | 09/22/2022 |
| 7 | Radio Communication Analyzer | Anritsu | MT8821C | KSEM002-1 | 04/01/2022 | 03/31/2023 |
| 8 | Universal Radio Communication Tester | R&S | CMW500 | KUS1911E004-1 | 10/12/2021 | 10/11/2022 |
| 9 | Switcher | CCSRF | FY562 | KUS2001M001-3 | 10/12/2021 | 10/11/2022 |
| 10 | AC Power Source | EXTECH | 6605 | KS301178 | N.C.R | N.C.R |
| 11 | DC Power Supply | Agilent | E3632A | KS301180 | N.C.R | N.C.R |
| 12 | Conducted Test Cable | Thermax | RF01-RF04 | CZ301111-CZ301120 | 01/16/2022 | 01/15/2023 |
| 13 | Temp. / Humidity Chamber | TERCHY | MHK-120AK | KS301190 | 04/01/2021 | 03/31/2023 |
| 14 | Temperature & Humidity Recorder | Renke Control | RS-WS-N01-6J | KSEM024-5 | 04/01/2021 | 03/31/2023 |
| 15 | Software | BST | TST-PASS | / | N/A | N/A |
| RF Radiated Test | | | | | | |
| 1 | Spectrum Analyzer | R&S | FSV40 | KUS1806E003 | 10/11/2021 | 10/10/2022 |
| 2 | Universal Radio Communication Tester | R&S | CMW500 | KSEM009-1 | 04/01/2022 | 03/31/2023 |
| 3 | Signal Generator | Agilent | E8257C | KS301066 | 10/18/2021 | 10/17/2022 |
| 4 | Loop Antenna | COM-POWER | AL-130R | KUS1806E001 | 04/13/2021 | 04/12/2023 |
| 5 | Bilog Antenna | TESEQ | CBL 6112D | KUS1806E005 | 06/29/2021 | 06/28/2023 |
| 6 | Bilog Antenna | SCHWARZBECK | VULB9160 | CZ301016 | 04/13/2021 | 04/12/2024 |
| 7 | Horn-antenna(1-18GHz) | Schwarzbeck | BBHA9120D | KS301079 | 10/26/2020 | 10/25/2022 |
| 8 | Horn-antenna(1-18GHz) | ETS-LINDGREN | 3117 | KS301186 | 02/22/2021 | 02/21/2023 |
| 9 | Horn Antenna(18-40GHz) | Schwarzbeck | BBHA9170 | CZ301058 | 03/22/2022 | 03/21/2023 |
| 10 | Amplifier(30MHz~18GHz) | PANSHAN TECHNOLOGY | LNA:1~18G | KSEM010-1 | 01/22/2022 | 01/21/2023 |
| 11 | Amplifier(18~40GHz) | COM-POWER | PAM-840A | KUS1710E001 | 01/22/2022 | 01/21/2023 |
| 12 | RE Test Cable | REBES MICROWAVE | / | CZ301097 | 11/14/2021 | 11/13/2022 |
| 13 | Temperature & Humidity Recorder | Renke Control | RS-WS-N01-6J | KSEM024-4 | 01/04/2022 | 31/03/2023 |

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| | | | | | | |
|----|----------|------------|------------|---|-----|-----|
| 14 | Software | Faratronic | EZ_EMV-3A1 | / | N/A | N/A |
|----|----------|------------|------------|---|-----|-----|

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中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn
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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 1 is PCB antenna and antenna 2 is PCB antenna, and all no consideration of replacement. The best case gain of the antenna 1 is 0.45dBi for Band1, -1.03dBi for Band3. and antenna 2 is -0.92dBi for Band1, -1.69dBi for Band3.

Antenna location: Refer to internal photo.



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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 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.



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7 Radio Spectrum Matter Test Results

7.1 Duty Cycle

Test Requirement: KDB 789033 D02 II B 1
Test Method: KDB 789033 II B 1

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 01 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

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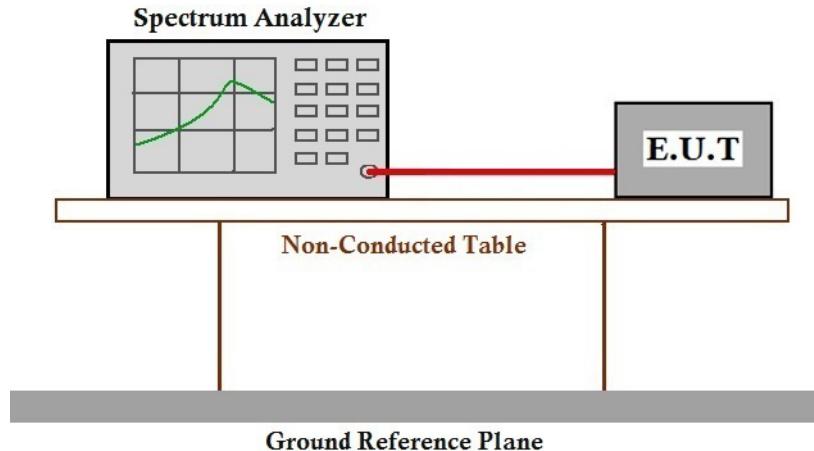
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7.1.3 Test Setup Diagram**7.1.4 Measurement Procedure and Data**

Please Refer to Appendix B for KSCR220600092202

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7.2 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
 Test Method: KDB 789033 D02 II C 1

7.2.1 E.U.T. Operation

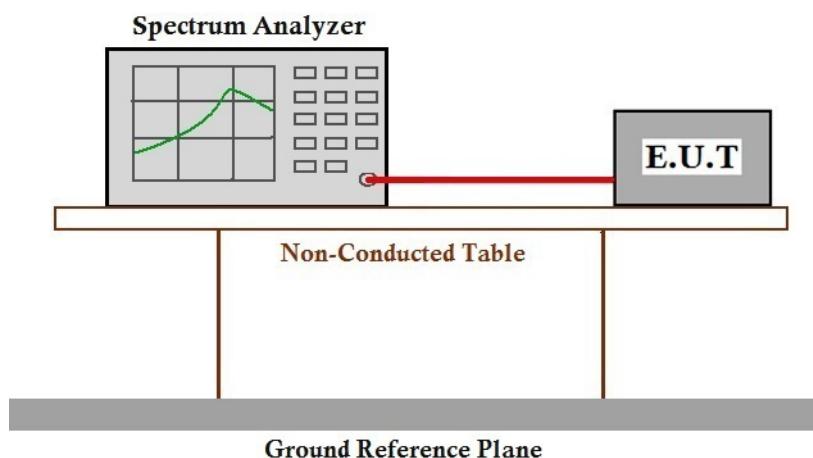
Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 01 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix B for KSCR220600092202

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7.3 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)

Test Method: KDB 789033 D02 II C 2

Limit:

| Frequency band(MHz) | Limit |
|---------------------|----------|
| 5725-5850 | ≥500 kHz |

7.3.1 E.U.T. Operation

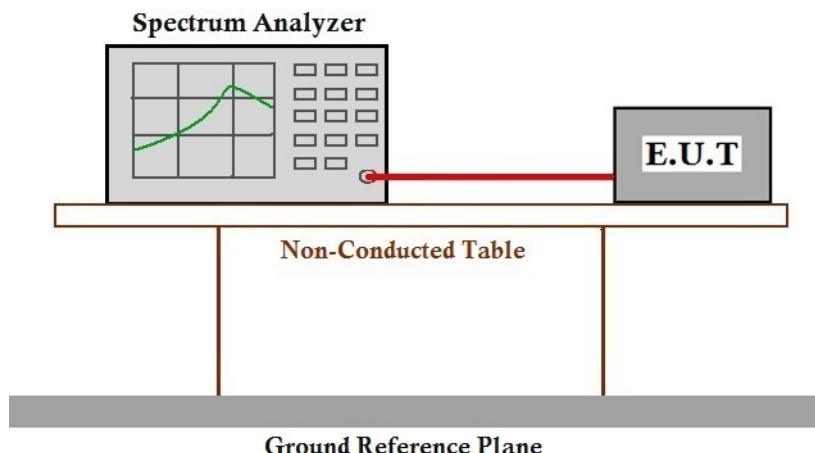
Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 02 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

7.3.3 Test Setup Diagram



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7.3.4 Measurement Procedure and Data

Please Refer to Appendix B for KSCR220600092202



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7.4 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
 Test Method: KDB 789033 D02 II E

Limit:

| Frequency band(MHz) | Limit |
|---------------------|--|
| 5150-5250 | ≤1W(30dBm) for master device |
| | ≤250mW(24dBm) for client device |
| 5250-5350 | ≤250mW(24dBm) for client device or 11dBm+10logB* |
| 5470-5725 | ≤250mW(24dBm) for client device or 11dBm+10logB* |
| 5725-5850 | ≤1W(30dBm) |
| Remark: | * Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage. |

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 01 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

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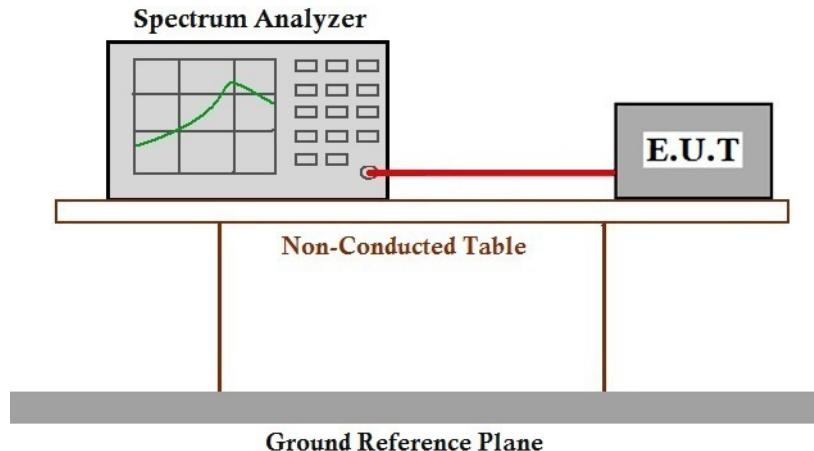
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report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix B for KSCR220600092202

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7.5 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II F

Limit:

| Frequency band(MHz) | Limit |
|---------------------|--|
| 5150-5250 | ≤17dBm in 1MHz for master device |
| | ≤11dBm in 1MHz for client device |
| 5250-5350 | ≤11dBm in 1MHz for client device |
| 5470-5725 | ≤11dBm in 1MHz for client device |
| 5725-5850 | ≤30dBm in 500 kHz |
| Remark: | The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. |

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

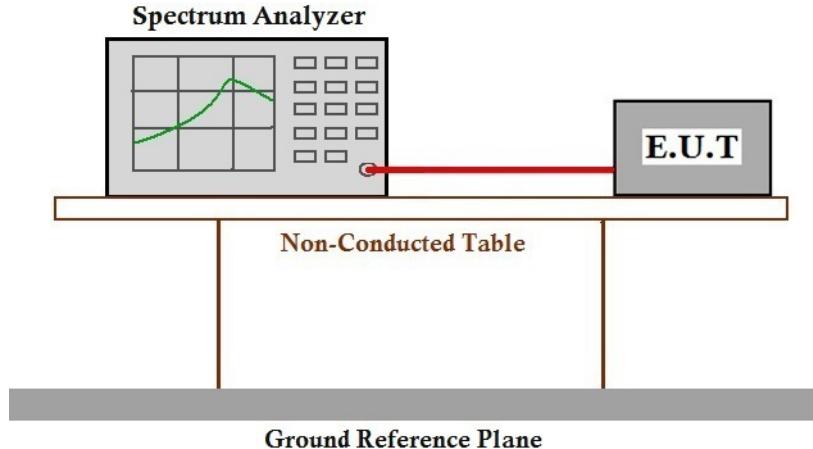
7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 01 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

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7.5.3 Test Setup Diagram**7.5.4 Measurement Procedure and Data**

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7.6 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
 Test Method: KDB 789033 D02 II G

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| Above 1GHz | 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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 55.5 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 01 | 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), final test modes are |



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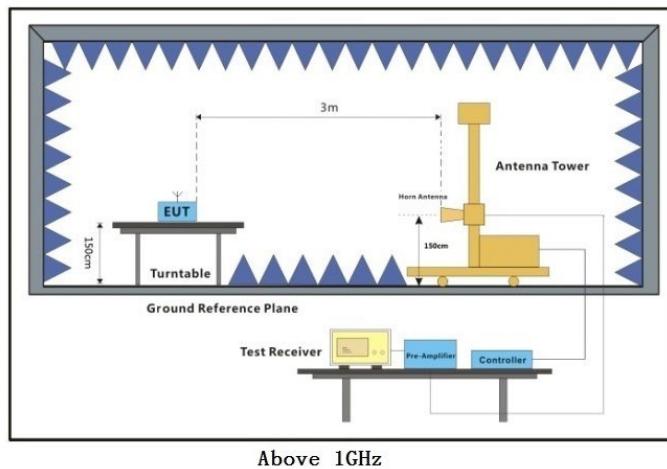
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| | | |
|------------|----|--|
| | | considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

7.6.3 Test Setup Diagram



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7.6.4 Measurement Procedure and Data

- a. 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz 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.
3. 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.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for 11a modulation and MIMO antenna operation for 11n/ac modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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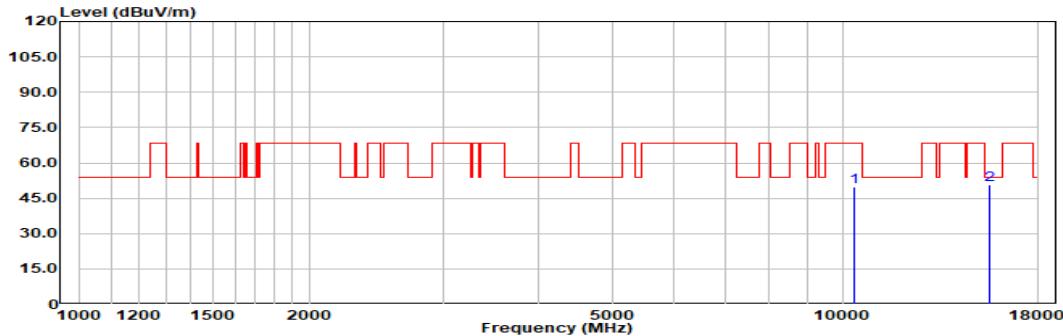
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|--------|
| | | | | Level | FCC | 5G | |
| 1 10360.000 | 12.58-500.00 | 582.43 | 49.65 | 68.30 | -18.65 | Peak | |
| 2 15540.000 | 14.80-500.00 | 580.81 | 50.84 | 54.00 | -3.16 | Peak | |



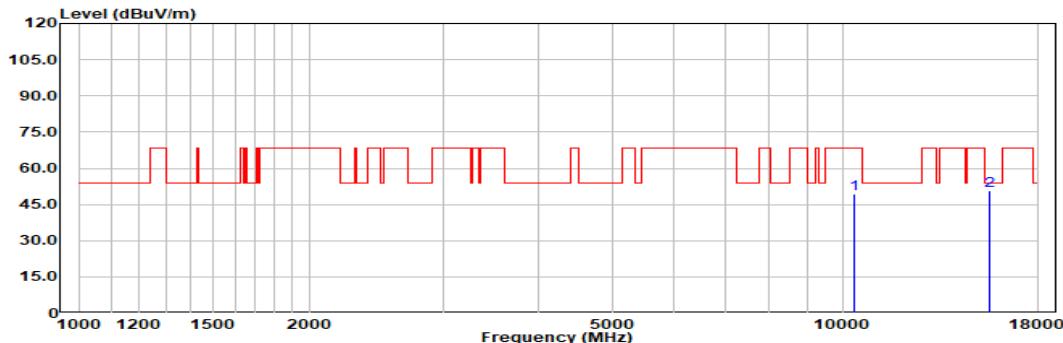
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|-----|--------|
| | | | | Level | FCC | 5G | FCC | |
| 1 10360.000 | 12.58-500.00 | 582.01 | 49.23 | 68.30 | -19.07 | Peak | | |
| 2 15540.000 | 14.80-500.00 | 580.84 | 50.87 | 54.00 | -3.13 | Peak | | |



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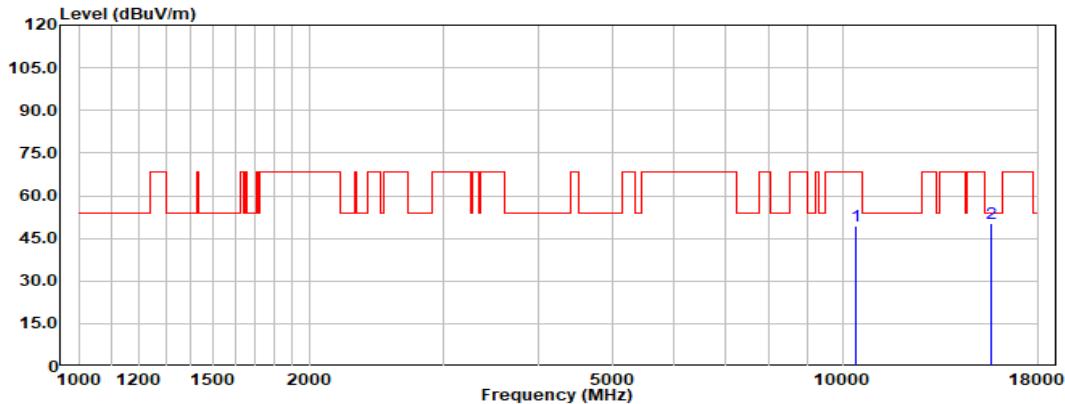
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|--------|
| | | | | Level | FCC | 5G | |
| 1 10400.000 | 12.58-500.00 | 582.17 | 49.39 | 68.30 | -18.91 | Peak | |
| 2 15600.000 | 14.80-500.00 | 580.17 | 50.32 | 54.00 | -3.68 | Peak | |



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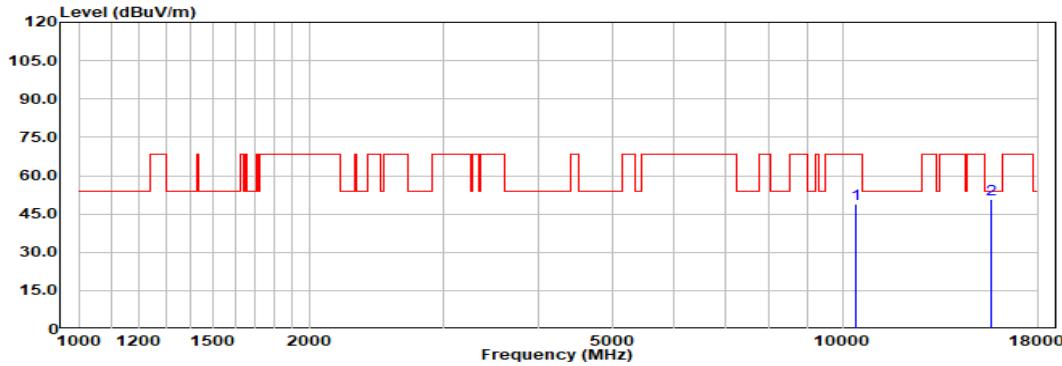
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|--|--------|
| | | | | FCC | 5G FCC | 5G | | |
| 1 10400.000 | 12.58-500.00 | 581.86 | 49.08 | 68.30 | -19.22 | Peak | | |
| 2 15600.000 | 14.80-500.00 | 580.50 | 50.65 | 54.00 | -3.35 | Peak | | |



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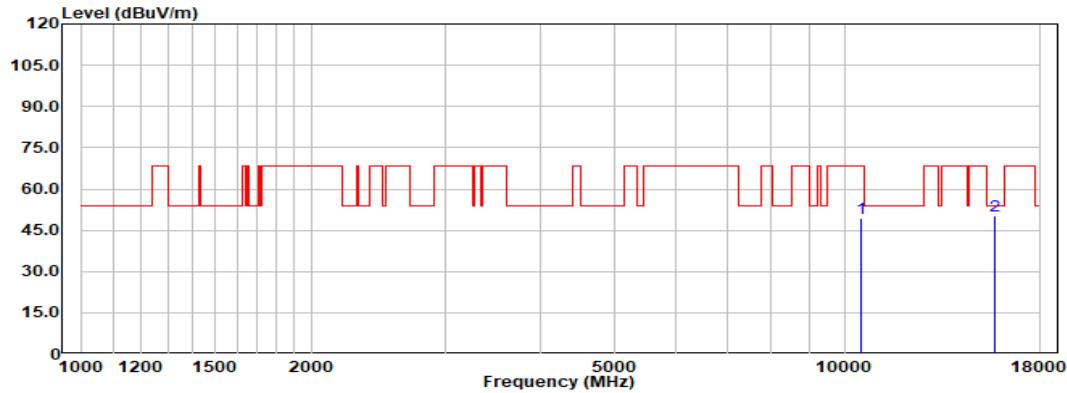
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Report No.: KSCR220600092202

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



| Freq | Cable | Ant | Read | Over | | | Remark |
|-------------|--------------|--------|-------|--------|--------|------|--------|
| | Loss | Factor | Level | Level | FCC | 5G | |
| MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 10480.000 | 12.60-500.00 | 582.00 | 49.22 | 68.30 | -19.08 | Peak | |
| 2 15720.000 | 14.81-500.00 | 580.04 | 50.44 | 54.00 | -3.56 | Peak | |



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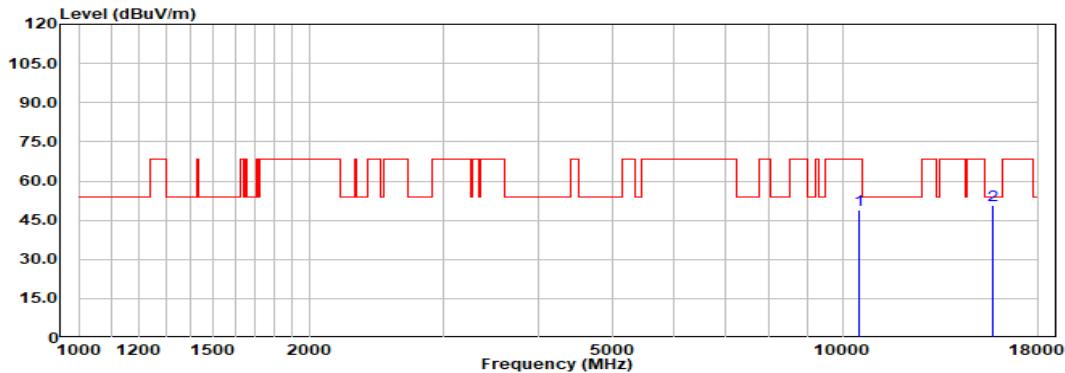
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Report No.: KSCR220600092202

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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



| Freq | Cable | Ant | Read | Over | | | Remark |
|-------------|--------------|--------|-------|--------|--------|------|--------|
| | Loss | Factor | Level | FCC | 5G | FCC | |
| MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 10480.000 | 12.60-500.00 | 581.79 | 49.01 | 68.30 | -19.29 | Peak | |
| 2 15720.000 | 14.81-500.00 | 580.15 | 50.55 | 54.00 | -3.45 | Peak | |



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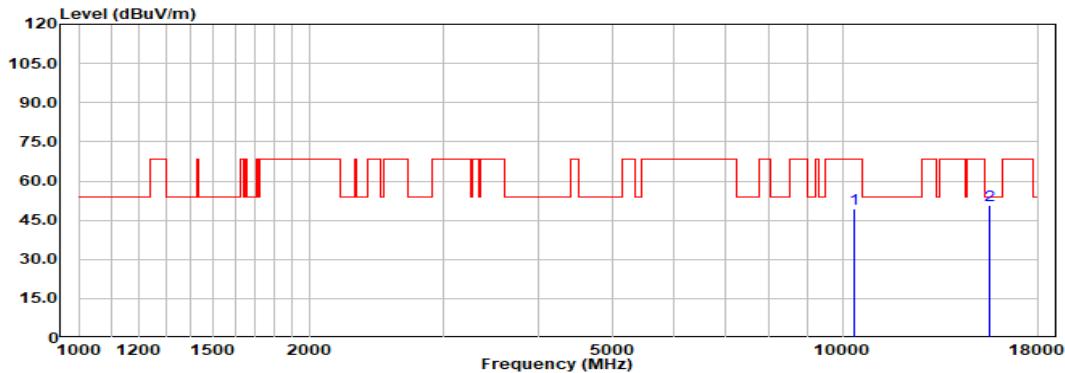
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|-----|--------|
| | | | | Level | FCC | 5G | FCC | |
| 1 10360.000 | 12.58-500.00 | 581.94 | 49.16 | 68.30 | -19.14 | Peak | | |
| 2 15540.000 | 14.80-500.00 | 580.64 | 50.67 | 54.00 | -3.33 | Peak | | |



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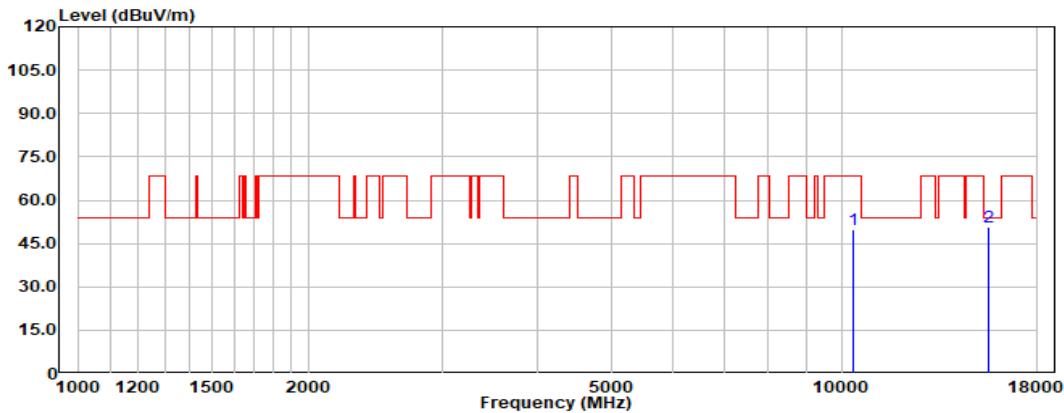
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|-------------|------------|------------|------------|-------|-------|--------|--------|
| | | | | Level | FCC | 5G | |
| 1 10360.000 | 12.58 | 500.00 | 582.69 | 49.91 | 68.30 | -18.39 | Peak |
| 2 15540.000 | 14.80 | 500.00 | 580.88 | 50.91 | 54.00 | -3.09 | Peak |



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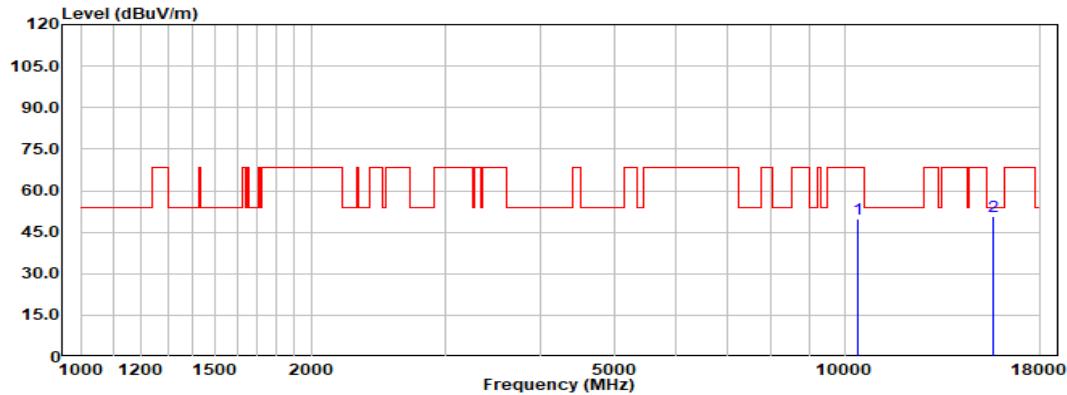
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|--------|
| | | | | Level | FCC | 5G | |
| 1 10400.000 | 12.58-500.00 | 582.48 | 49.70 | 68.30 | -18.60 | Peak | |
| 2 15600.000 | 14.80-500.00 | 580.49 | 50.64 | 54.00 | -3.36 | Peak | |



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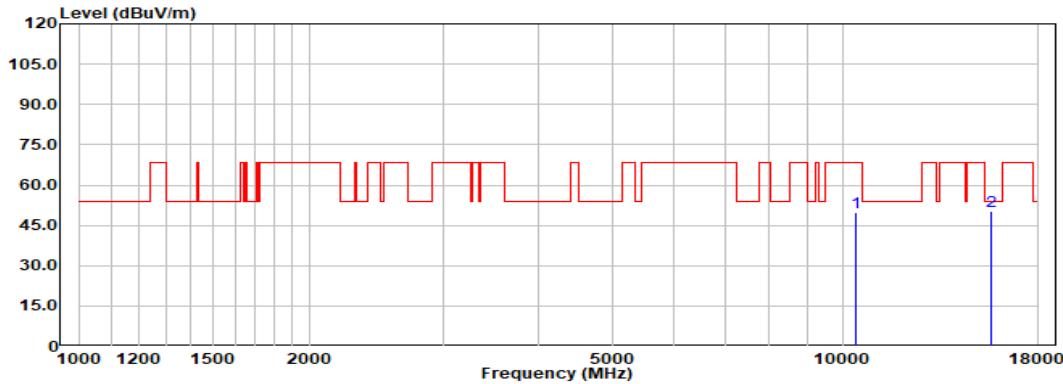
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



| Freq | Cable | Ant | Read | Over | | | | Remark |
|-------------|--------------|--------|-------|--------|--------|----|-----|--------|
| | Loss | Factor | Level | Level | FCC | 5G | FCC | |
| MHz | dB | dB/m | dBuV | dBuV/m | | | | |
| 1 10400.000 | 12.58-500.00 | 582.57 | 49.79 | 68.30 | -18.51 | | | Peak |
| 2 15600.000 | 14.80-500.00 | 580.07 | 50.22 | 54.00 | -3.78 | | | Peak |

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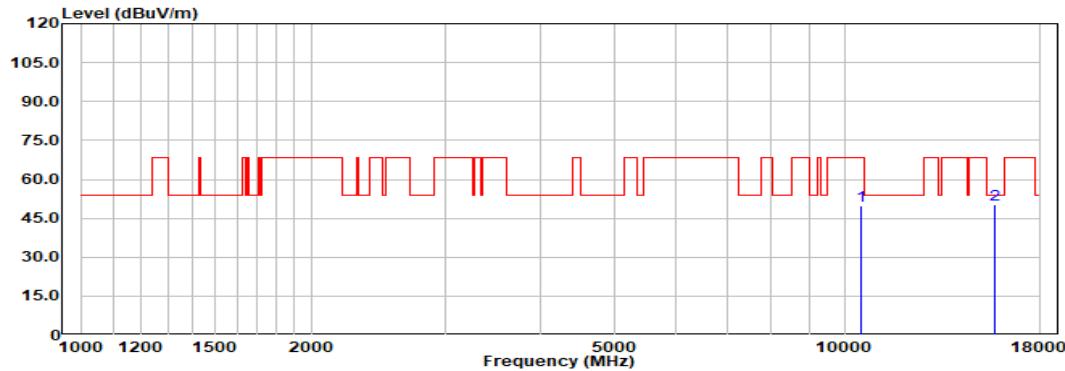
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



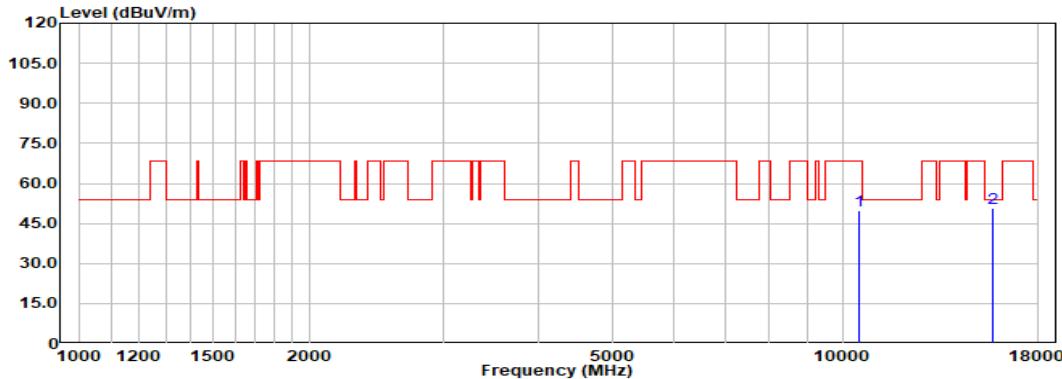
| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|-------------|--------------|------------|------------|-------|--------|-----|----|--------|
| | | | | FCC | 5G | FCC | 5G | |
| 1 10480.000 | 12.60-500.00 | 582.72 | 49.94 | 68.30 | -18.36 | | | Peak |
| 2 15720.000 | 14.81-500.00 | 579.66 | 50.06 | 54.00 | -3.94 | | | Peak |

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



| Freq | Cable | Ant | Read | Over | | | | Remark |
|-------------|--------------|--------|-------|--------|--------|------|-----|--------|
| | Loss | Factor | Level | Level | FCC | 5G | FCC | |
| MHz | dB | dB/m | dBuV | dBuV/m | | | | |
| 1 10480.000 | 12.60-500.00 | 582.54 | 49.76 | 68.30 | -18.54 | Peak | | |
| 2 15720.000 | 14.81-500.00 | 580.53 | 50.93 | 54.00 | -3.07 | Peak | | |



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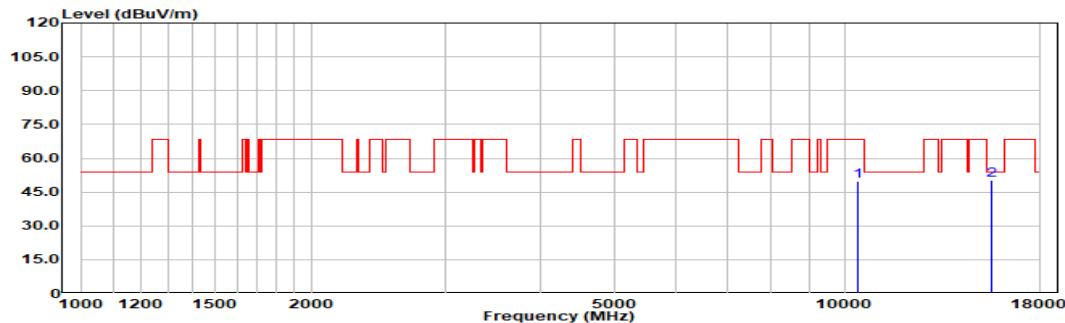
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|--------|
| | | | | Level | FCC | 5G | |
| 1 10380.000 | 12.58-500.00 | 582.73 | 49.95 | 68.30 | -18.35 | Peak | |
| 2 15570.000 | 14.80-500.00 | 580.11 | 50.20 | 54.00 | -3.80 | Peak | |



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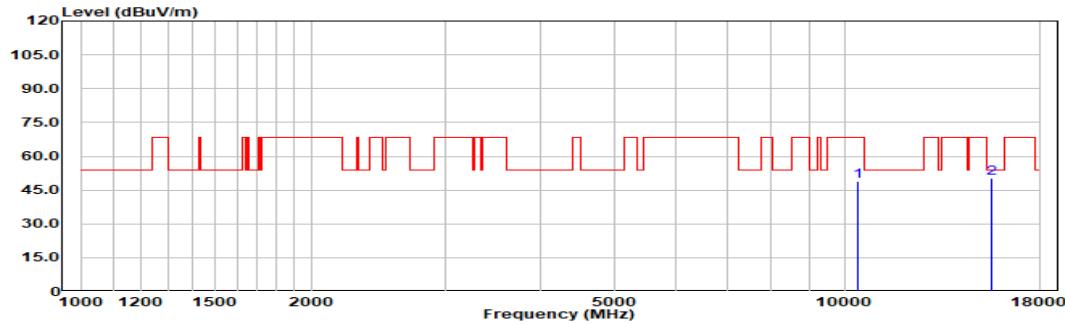
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|--------|
| | | | | Level | FCC | 5G | |
| 1 10380.000 | 12.58-500.00 | 581.85 | 49.07 | 68.30 | -19.23 | Peak | |
| 2 15570.000 | 14.80-500.00 | 580.32 | 50.41 | 54.00 | -3.59 | Peak | |



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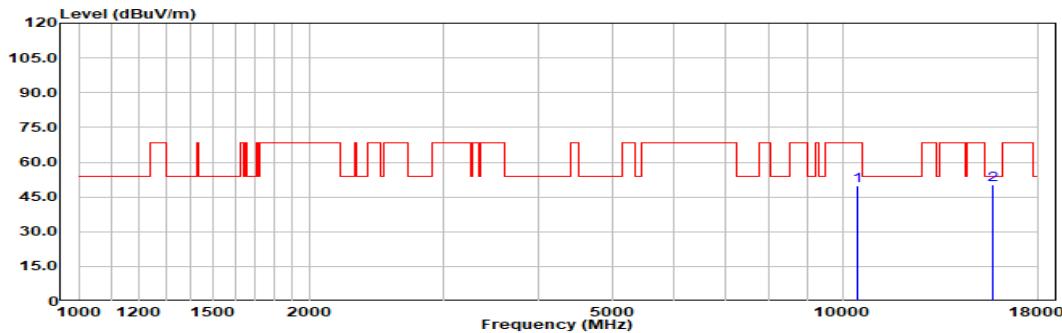
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|--------|
| | | | | Level | FCC | 5G | |
| 1 10460.000 | 12.60-500.00 | 582.45 | 49.68 | 68.30 | -18.62 | Peak | |
| 2 15690.000 | 14.81-500.00 | 579.77 | 50.11 | 54.00 | -3.89 | Peak | |



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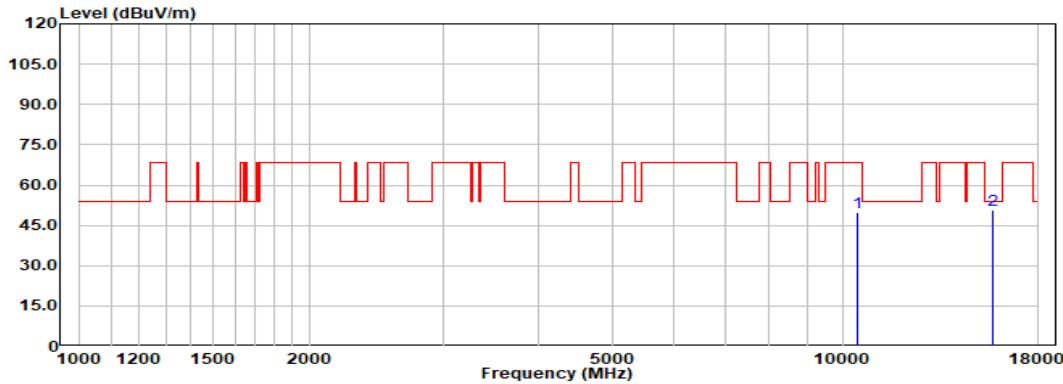
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|-----|--------|
| | | | | Level | FCC | 5G | FCC | |
| 1 10460.000 | 12.60-500.00 | 582.71 | 49.94 | 68.30 | -18.36 | Peak | | |
| 2 15690.000 | 14.81-500.00 | 580.20 | 50.54 | 54.00 | -3.46 | Peak | | |



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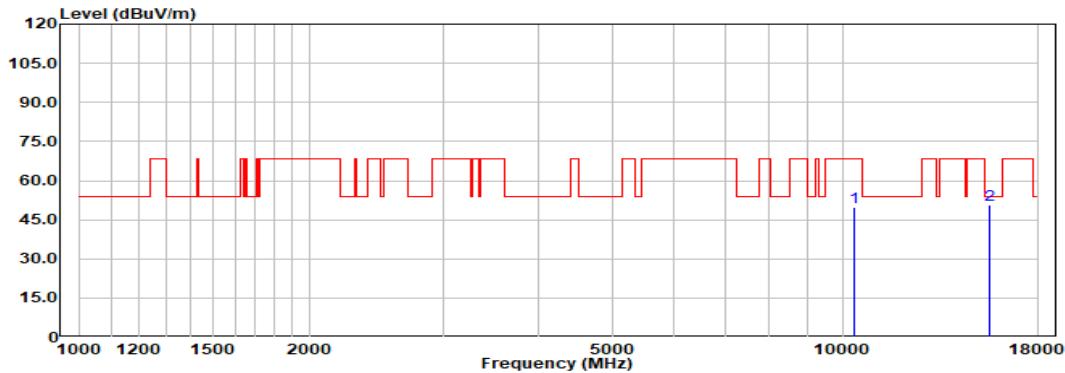
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



| Freq | Cable | Ant | Read | Over | | | | Remark |
|-------------|--------------|--------|-------|--------|--------|------|-----|--------|
| | Loss | Factor | Level | Level | FCC | 5G | FCC | |
| MHz | dB | dB/m | dBuV | dBuV/m | | | | |
| 1 10360.000 | 12.58-500.00 | 582.76 | 49.98 | 68.30 | -18.32 | Peak | | |
| 2 15540.000 | 14.80-500.00 | 580.77 | 50.80 | 54.00 | -3.20 | Peak | | |



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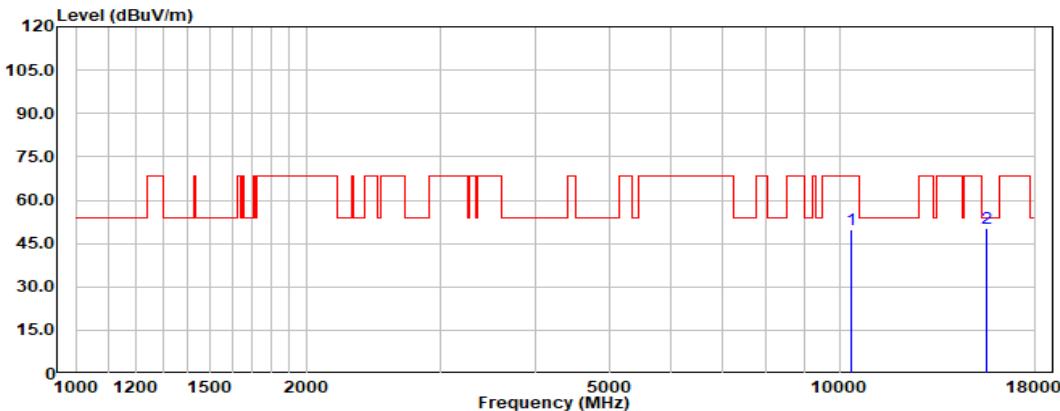
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|-------------|------------|------------|------------|-------|-------|--------|--------|
| | | | | Level | FCC | 5G | |
| 1 10360.000 | 12.58 | 500.00 | 582.67 | 49.89 | 68.30 | -18.41 | Peak |
| 2 15540.000 | 14.80 | 500.00 | 580.31 | 50.34 | 54.00 | -3.66 | Peak |

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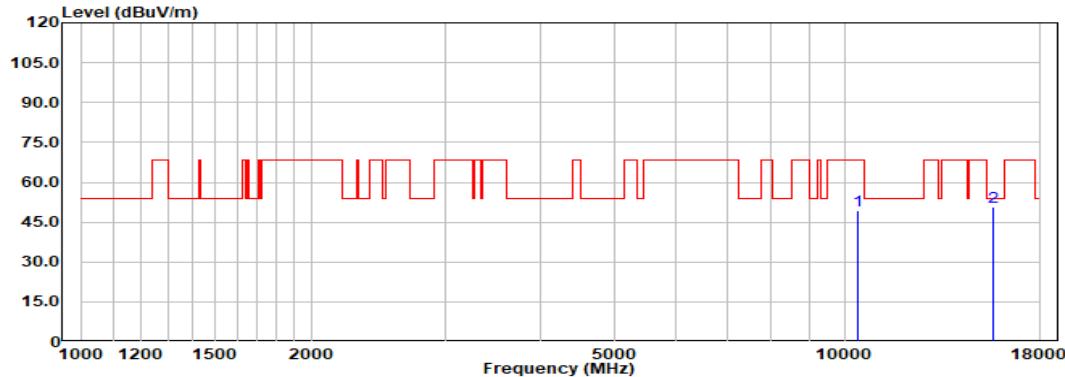
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



| Freq | Cable | Ant | Read | Over | | | | Remark |
|-------------|--------------|--------|-------|--------|--------|------|-----|--------|
| | Loss | Factor | Level | Level | FCC | 5G | FCC | |
| MHz | dB | dB/m | dBuV | dBuV/m | | | | |
| 1 10400.000 | 12.58-500.00 | 582.01 | 49.23 | 68.30 | -19.07 | Peak | | |
| 2 15600.000 | 14.80-500.00 | 580.73 | 50.88 | 54.00 | -3.12 | Peak | | |



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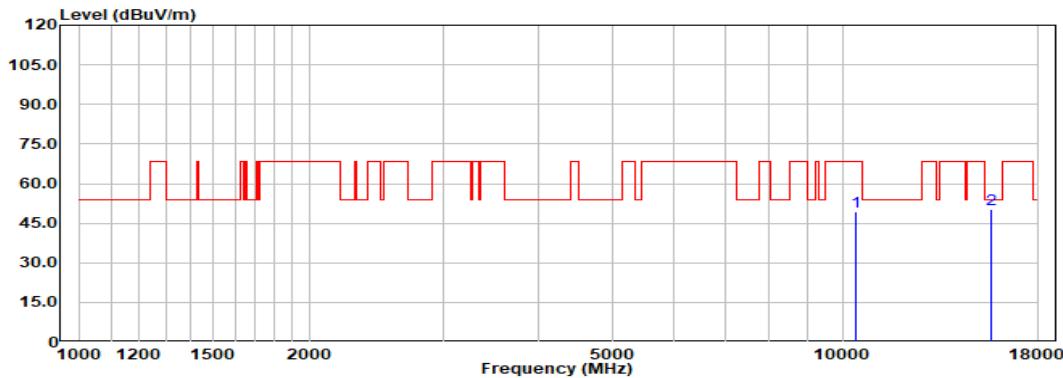
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



| Freq | Cable | Ant | Read | Over | | | | Remark |
|-------------|--------------|--------|-------|--------|--------|------|-----|--------|
| | Loss | Factor | Level | Level | FCC | 5G | FCC | |
| MHz | dB | dB/m | dBuV | dBuV/m | | | | |
| 1 10400.000 | 12.58-500.00 | 582.18 | 49.40 | 68.30 | -18.90 | Peak | | |
| 2 15600.000 | 14.80-500.00 | 580.33 | 50.48 | 54.00 | -3.52 | Peak | | |



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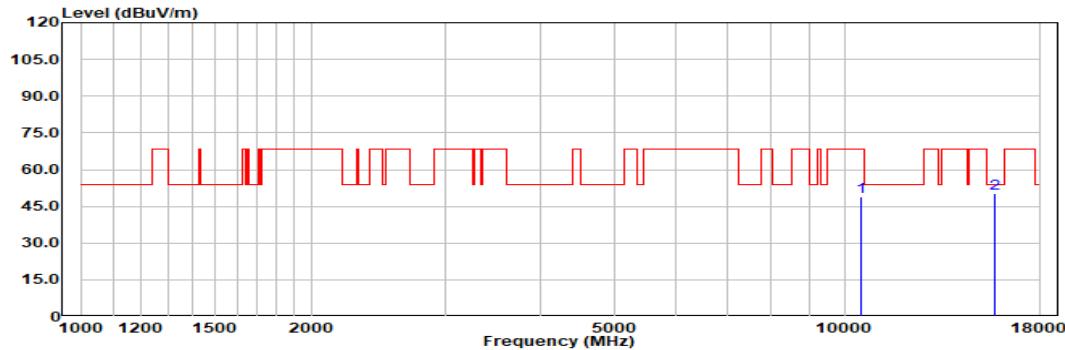
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



| Freq | Cable | Ant | Read | Over | | | | Remark |
|-------------|--------------|--------|-------|--------|--------|------|-----|--------|
| | Loss | Factor | Level | Level | FCC | 5G | FCC | |
| MHz | dB | dB/m | dBuV | dBuV/m | | | | |
| 1 10480.000 | 12.60-500.00 | 581.86 | 49.08 | 68.30 | -19.22 | Peak | | |
| 2 15720.000 | 14.81-500.00 | 579.89 | 50.29 | 54.00 | -3.71 | Peak | | |



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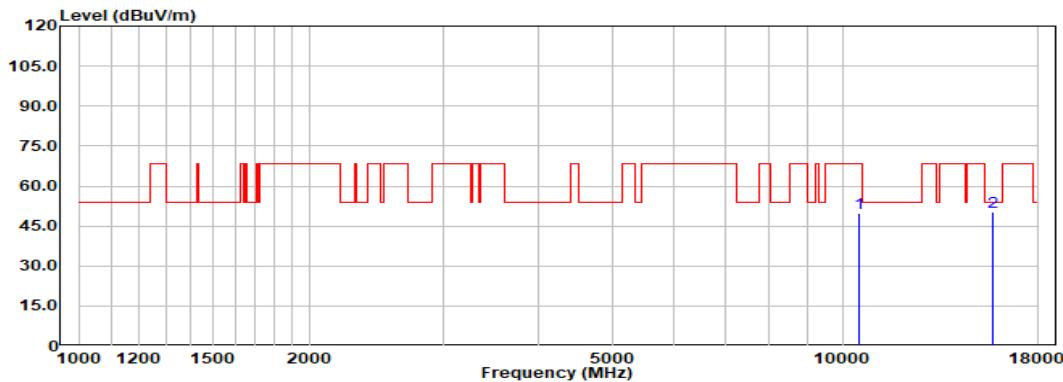
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



| Freq | Cable | Ant | Read | Over | | | | Remark |
|-------------|--------------|--------|--------|-------|--------|------|----|--------|
| | Freq | Loss | Factor | Level | Level | FCC | 5G | |
| 1 10480.000 | 12.60-500.00 | 582.46 | 49.68 | 68.30 | -18.62 | Peak | | |
| 2 15720.000 | 14.81-500.00 | 579.74 | 50.14 | 54.00 | -3.86 | Peak | | |



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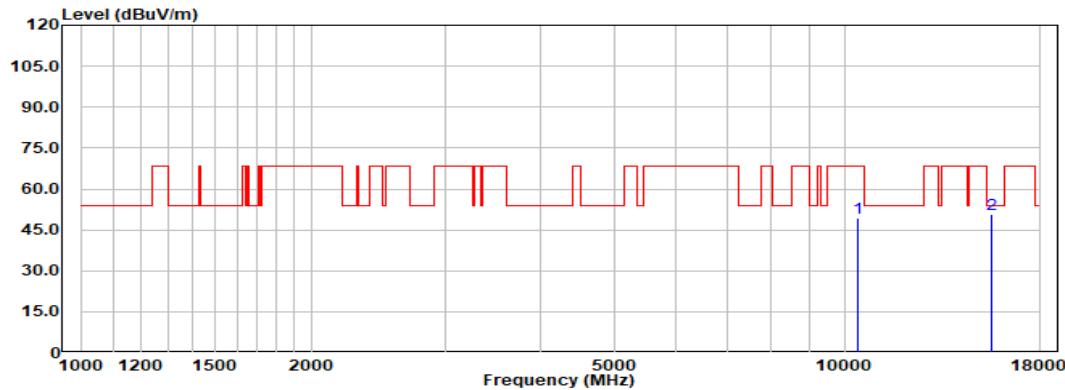
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|--------|
| | | | | Level | FCC | 5G | |
| 1 10380.000 | 12.58-500.00 | 582.03 | 49.25 | 68.30 | -19.05 | Peak | |
| 2 15570.000 | 14.80-500.00 | 580.62 | 50.71 | 54.00 | -3.29 | Peak | |



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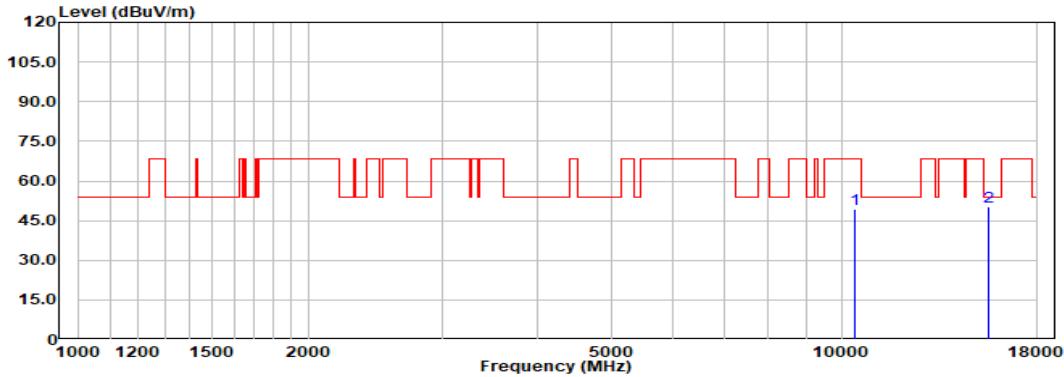
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



| Freq | Cable | Ant | Read | Over | | | | Remark |
|-------------|--------------|--------|-------|--------|--------|------|-----|--------|
| | Loss | Factor | Level | Level | FCC | 5G | FCC | |
| MHz | dB | dB/m | dBuV | dBuV/m | | | | |
| 1 10380.000 | 12.58-500.00 | 582.23 | 49.45 | 68.30 | -18.85 | Peak | | |
| 2 15570.000 | 14.80-500.00 | 580.29 | 50.38 | 54.00 | -3.62 | Peak | | |

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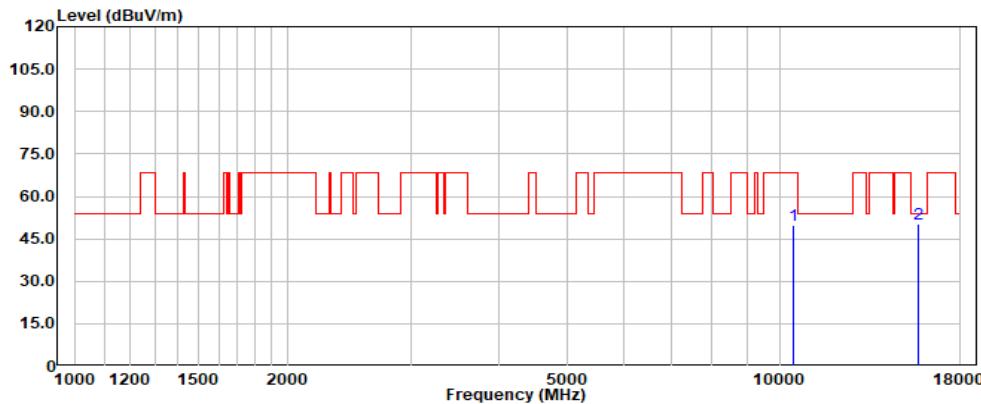
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|-----|--------|
| | | | | Level | FCC | 5G | FCC | |
| 1 10460.000 | 12.60-500.00 | 582.69 | 49.92 | 68.30 | -18.38 | Peak | | |
| 2 15690.000 | 14.81-500.00 | 579.97 | 50.31 | 54.00 | -3.69 | Peak | | |



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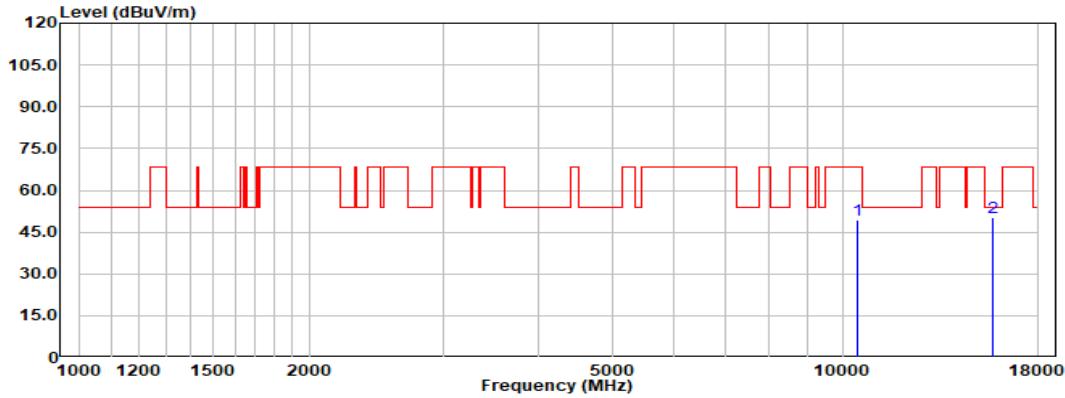
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



| Freq | Cable | Ant | Read | Over | | | | Remark |
|-------------|--------------|--------|-------|--------|--------|------|--|--------|
| | FCC | 5G | FCC | 5G | | | | |
| MHz | dB | dB/m | dBuV | dBuV/m | | | | |
| 1 10460.000 | 12.60-500.00 | 582.22 | 49.45 | 68.30 | -18.85 | Peak | | |
| 2 15690.000 | 14.81-500.00 | 580.06 | 50.40 | 54.00 | -3.60 | Peak | | |



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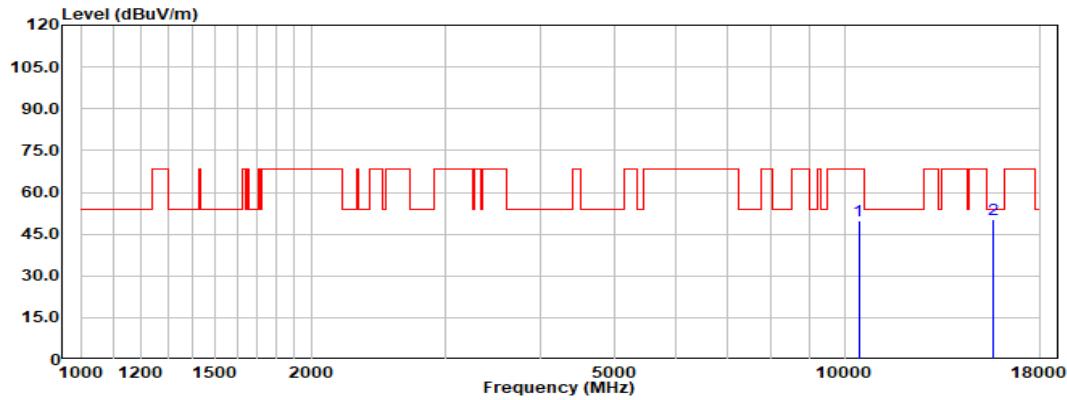
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|-------------|--------------|------------|------------|-------|-------|--------|------|--------|
| | | | | Level | FCC | 5G | FCC | |
| 1 10420.000 | 12.59-500.00 | 582.47 | 49.69 | 68.30 | 68.30 | -18.61 | Peak | |
| 2 15630.000 | 14.80-500.00 | 580.07 | 50.28 | 54.00 | 54.00 | -3.72 | Peak | |



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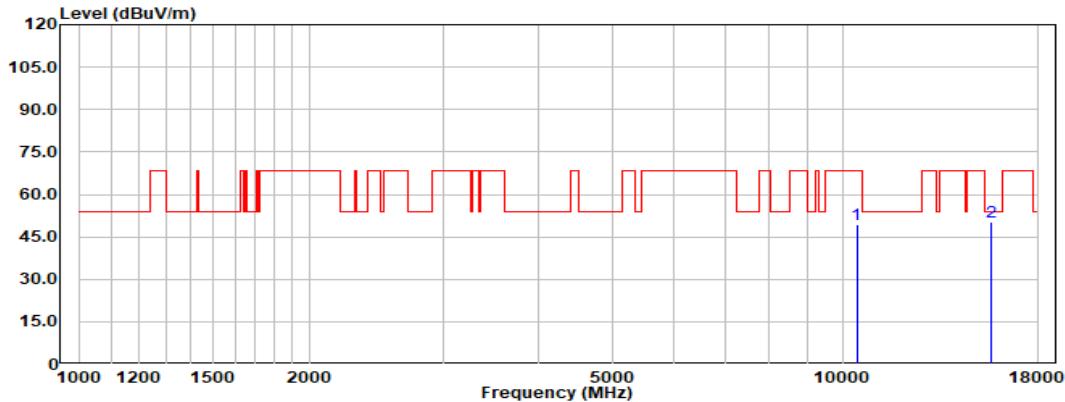
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



| Freq | Cable | Ant | Read | Over | | | Remark |
|-------------|--------------|--------|-------|-------|--------|------|--------|
| | Loss | Factor | Level | Level | FCC | 5G | |
| 1 10420.000 | 12.59-500.00 | 582.26 | 49.48 | 68.30 | -18.82 | Peak | |
| 2 15630.000 | 14.80-500.00 | 580.07 | 50.28 | 54.00 | -3.72 | Peak | |



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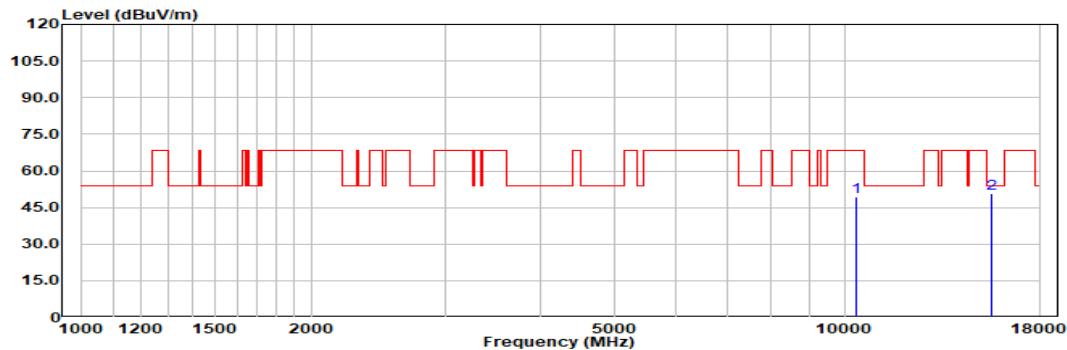
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



| Freq | Cable | Ant | Read | Over | | | | Remark |
|-------------|-------|--------|--------|--------|-------|--------|------|--------|
| | Loss | Factor | Level | FCC | 5G | FCC | 5G | |
| MHz | dB | dB/m | dBuV | dBuV/m | | | | |
| 1 10360.000 | 12.58 | 500.00 | 582.16 | 49.38 | 68.30 | -18.92 | Peak | |
| 2 15540.000 | 14.80 | 500.00 | 580.52 | 50.55 | 54.00 | -3.45 | Peak | |

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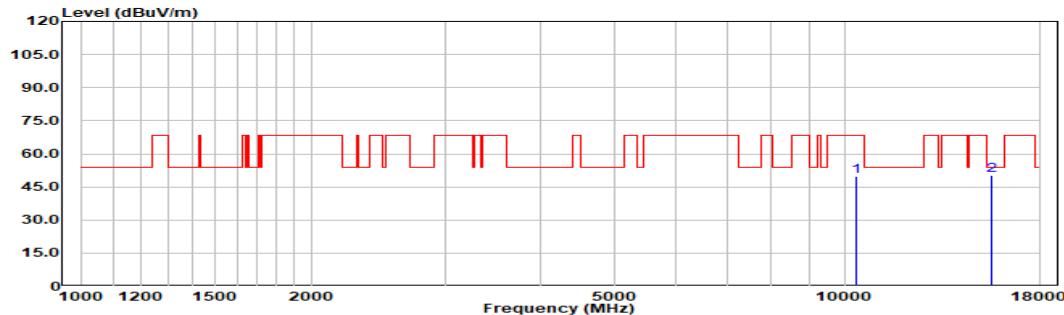
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|-------------|------------|------------|------------|-------|-------|--------|------|--------|
| | | | | Level | FCC | 5G | FCC | |
| 1 10360.000 | 12.58 | 500.00 | 582.41 | 49.63 | 68.30 | -18.67 | Peak | |
| 2 15540.000 | 14.80 | 500.00 | 580.17 | 50.20 | 54.00 | -3.80 | Peak | |



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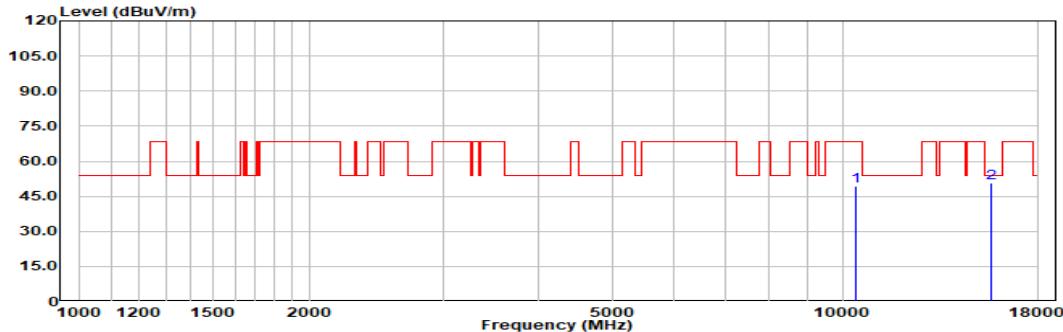
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|--------|
| | | | | Level | FCC | 5G | |
| 1 10400.000 | 12.58-500.00 | 582.12 | 49.34 | 68.30 | -18.96 | Peak | |
| 2 15600.000 | 14.80-500.00 | 580.77 | 50.92 | 54.00 | -3.08 | Peak | |



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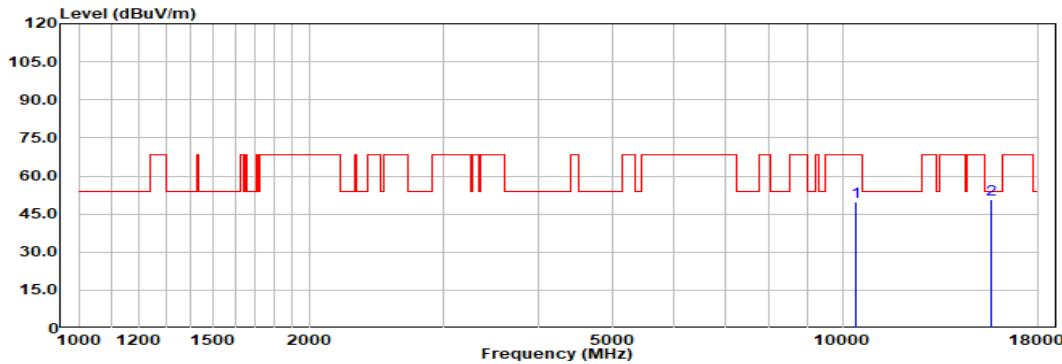
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



| Freq | Cable | Ant | Read | Over | | | Remark |
|-------------|-------|--------|--------|-------|-------|--------|--------|
| | Freq | Loss | Factor | Level | FCC | 5G | |
| 1 10400.000 | 12.58 | 500.00 | 582.53 | 49.75 | 68.30 | -18.55 | Peak |
| 2 15600.000 | 14.80 | 500.00 | 580.46 | 50.61 | 54.00 | -3.39 | Peak |

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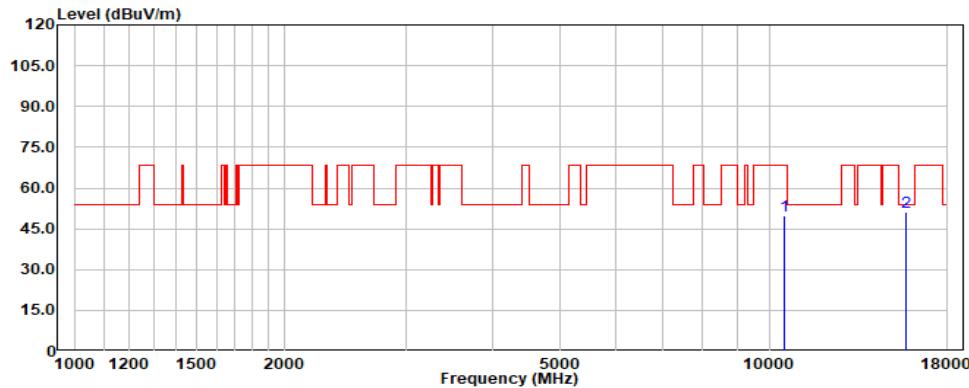
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|--------|
| | | | | FCC | 5G | 5G | |
| 1 10480.000 | 12.60-500.00 | 582.46 | 49.68 | 68.30 | -18.62 | Peak | |
| 2 15720.000 | 14.81-500.00 | 580.55 | 50.95 | 54.00 | -3.05 | Peak | |



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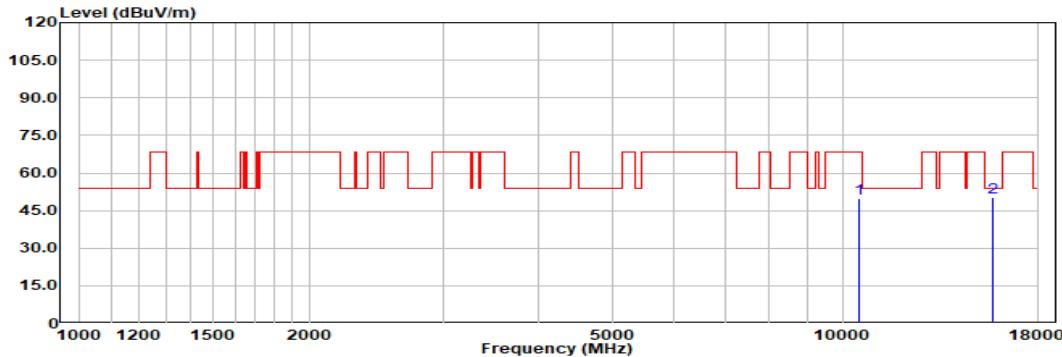
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



| Freq MHz | Cable Loss dB | Ant Factor dB/m | Read Level dBuV | Over | | | | Remark |
|-------------|---------------------|-----------------------|-----------------------|-------|--------|------|-----|--------|
| | | | | I | FCC | 5G | FCC | |
| 1 10480.000 | 12.60-500.00 | 582.57 | 49.79 | 68.30 | -18.51 | Peak | | |
| 2 15720.000 | 14.81-500.00 | 579.73 | 50.13 | 54.00 | -3.87 | Peak | | |

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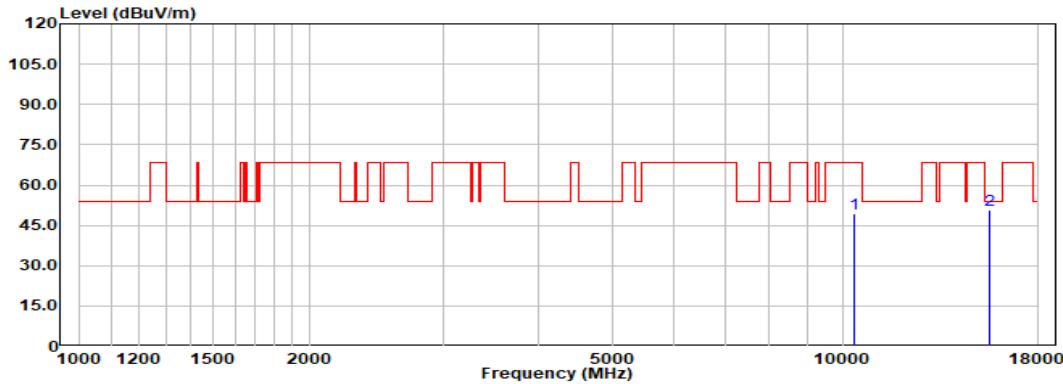
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



| Freq | Cable | Ant | Read | Over | | | | Remark |
|-------------|-------|--------|--------|--------|-------|--------|------|--------|
| | Loss | Factor | Level | Level | FCC | 5G | FCC | |
| MHz | dB | dB/m | dBuV | dBuV/m | | | | |
| 1 10360.000 | 12.58 | 500.00 | 582.26 | 49.48 | 68.30 | -18.82 | Peak | |
| 2 15540.000 | 14.80 | 500.00 | 580.77 | 50.80 | 54.00 | -3.20 | Peak | |

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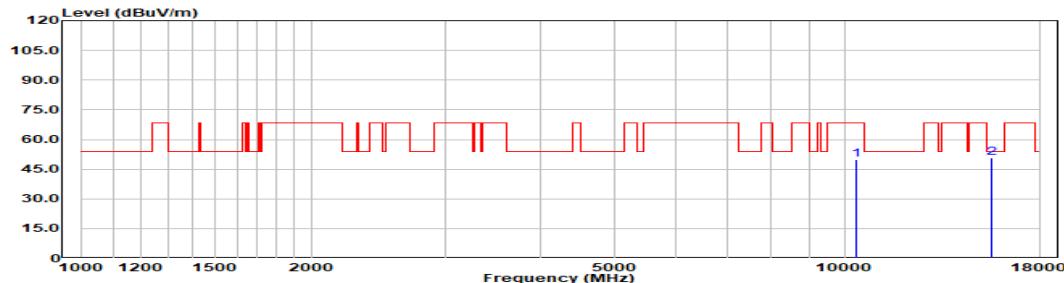
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|-----------|--------------|------------|------------|-------|--------|------|--------|
| | | | | Level | FCC | 5G | |
| 10360.000 | 12.58-500.00 | 582.49 | 49.71 | 68.30 | -18.59 | Peak | |
| 15540.000 | 14.80-500.00 | 580.50 | 50.53 | 54.00 | -3.47 | Peak | |



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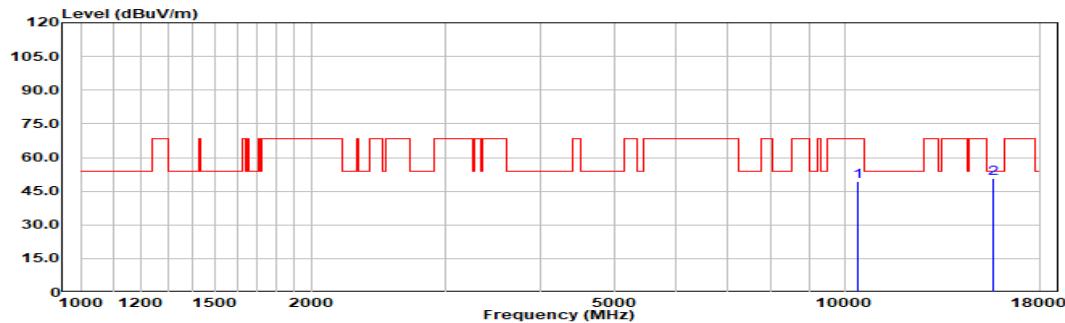
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|--------|
| | | | | Level | FCC | 5G | |
| 1 10400.000 | 12.58-500.00 | 582.36 | 49.58 | 68.30 | -18.72 | Peak | |
| 2 15600.000 | 14.80-500.00 | 580.50 | 50.65 | 54.00 | -3.35 | Peak | |



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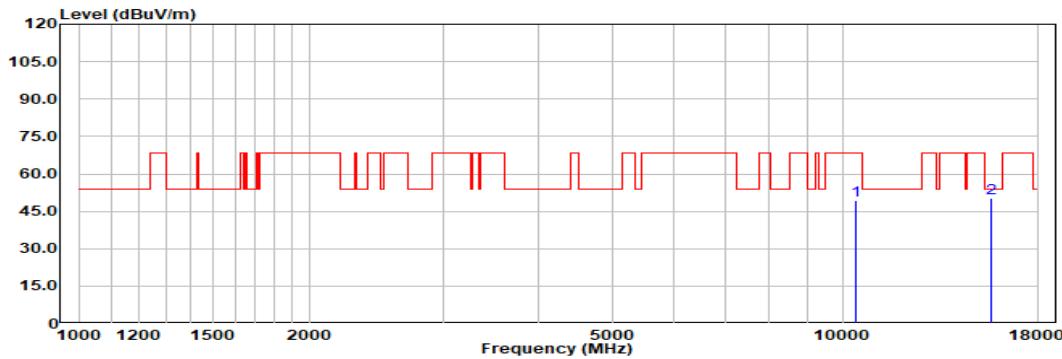
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|-----|--------|
| | | | | Level | FCC | 5G | FCC | |
| 1 10400.000 | 12.58-500.00 | 582.26 | 49.48 | 68.30 | -18.82 | Peak | | |
| 2 15600.000 | 14.80-500.00 | 580.27 | 50.42 | 54.00 | -3.58 | Peak | | |

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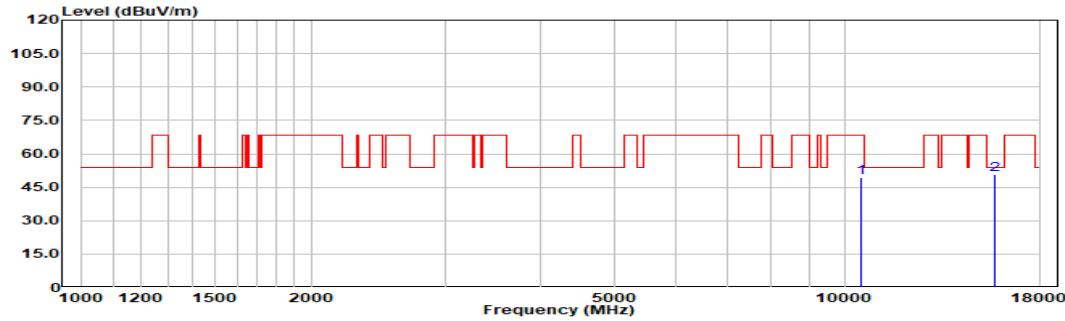
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|-----|--------|
| | | | | Level | FCC | 5G | FCC | |
| 1 10480.000 | 12.60-500.00 | 582.33 | 49.55 | 68.30 | -18.75 | Peak | | |
| 2 15720.000 | 14.81-500.00 | 580.34 | 50.74 | 54.00 | -3.26 | Peak | | |



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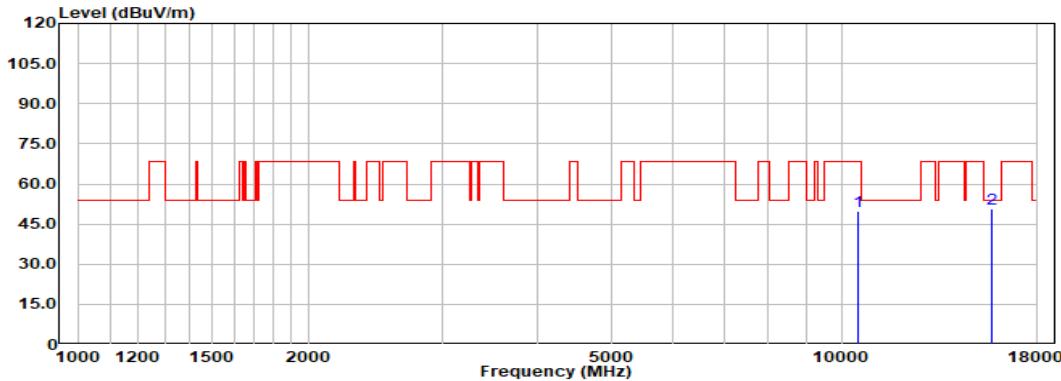
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



| Freq | Cable | Ant | Read | Over | | | Remark |
|-------------|--------------|--------|-------|--------|--------|------|--------|
| | Loss | Factor | Level | Level | FCC | 5G | |
| MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 10480.000 | 12.60-500.00 | 582.55 | 49.77 | 68.30 | -18.53 | Peak | |
| 2 15720.000 | 14.81-500.00 | 580.13 | 50.53 | 54.00 | -3.47 | Peak | |



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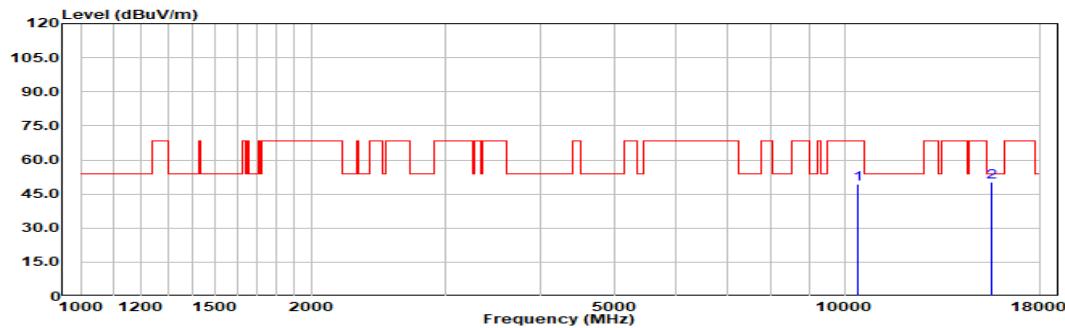
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Report No.: KSCR220600092202

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



| Freq | Cable | Ant | Read | Over | | Remark |
|-------------|--------------|--------|-------|-------|--------|--------|
| | Loss | Factor | Level | FCC | 5G | |
| 1 10380.000 | 12.58-500.00 | 582.35 | 49.57 | 68.30 | -18.73 | Peak |
| 2 15570.000 | 14.80-500.00 | 580.27 | 50.36 | 54.00 | -3.64 | Peak |



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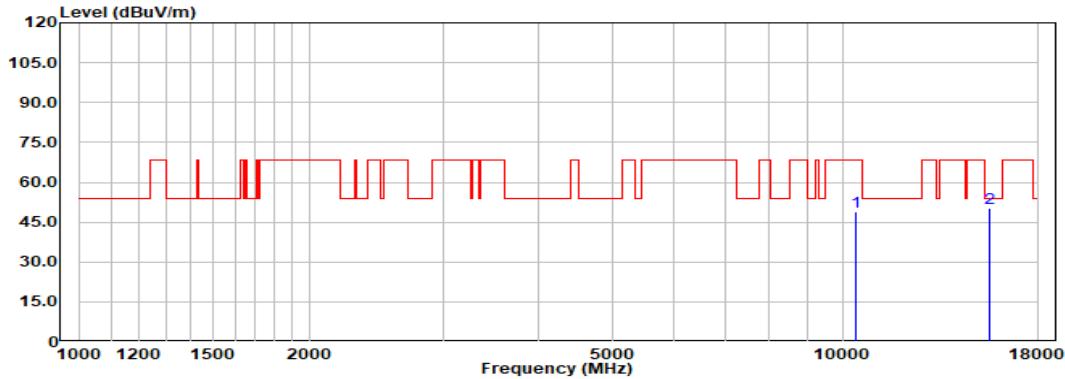
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



| Freq | Cable | Ant | Read | Over | | | | Remark |
|-------------|--------------|--------|-------|--------|--------|------|-----|--------|
| | Loss | Factor | Level | Level | FCC | 5G | FCC | |
| MHz | dB | dB/m | dBuV | dBuV/m | | | | |
| 1 10380.000 | 12.58-500.00 | 581.79 | 49.01 | 68.30 | -19.29 | Peak | | |
| 2 15570.000 | 14.80-500.00 | 580.00 | 50.09 | 54.00 | -3.91 | Peak | | |

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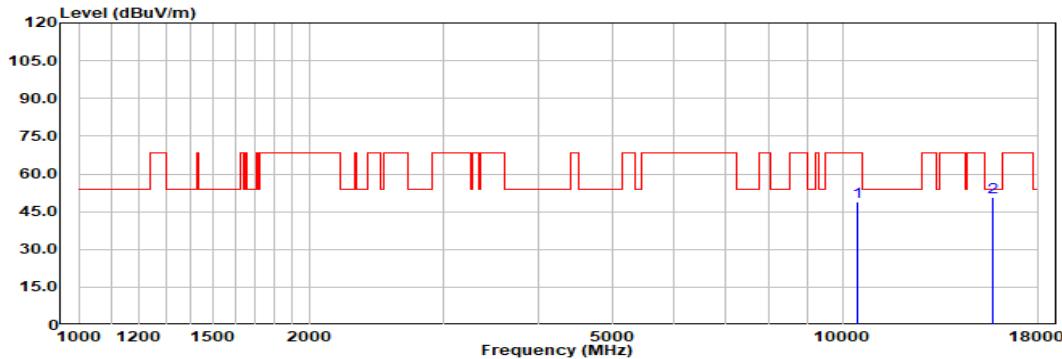
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|-----|--------|
| | | | | Level | FCC | 5G | FCC | |
| 1 10460.000 | 12.60-500.00 | 581.85 | 49.08 | 68.30 | -19.22 | Peak | | |
| 2 15690.000 | 14.81-500.00 | 580.21 | 50.55 | 54.00 | -3.45 | Peak | | |



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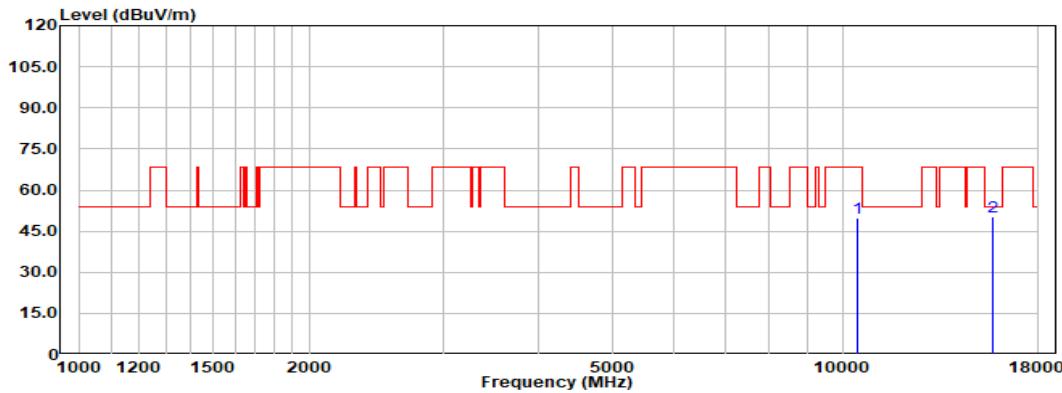
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



| Freq MHz | Cable Loss dB | Ant Factor dB/m | Read Level dBuV | Over | | | Remark |
|-------------|---------------------|-----------------------|-----------------------|-------|-----------|-----------|--------|
| | | | | Level | FCC 5G | 5G FCC | |
| 1 10460.000 | 12.60-500.00 | 582.57 | 49.80 | 68.30 | -18.50 | Peak | |
| 2 15690.000 | 14.81-500.00 | 579.74 | 50.08 | 54.00 | -3.92 | Peak | |

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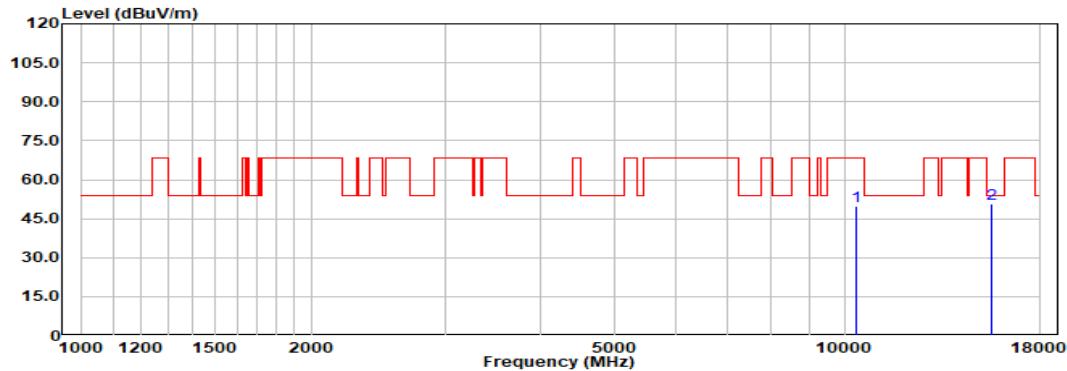
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|-----|--------|
| | | | | Level | FCC | 5G | FCC | |
| 1 10360.000 | 12.58-500.00 | 582.51 | 49.73 | 68.30 | -18.57 | Peak | | |
| 2 15540.000 | 14.80-500.00 | 580.79 | 50.82 | 54.00 | -3.18 | Peak | | |

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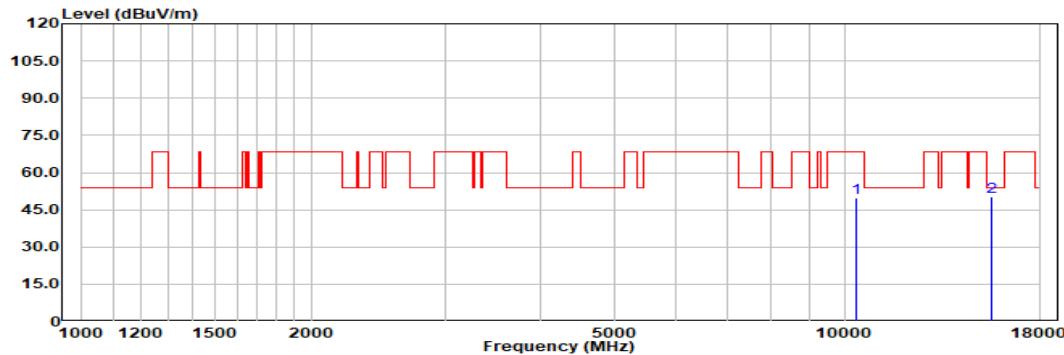
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



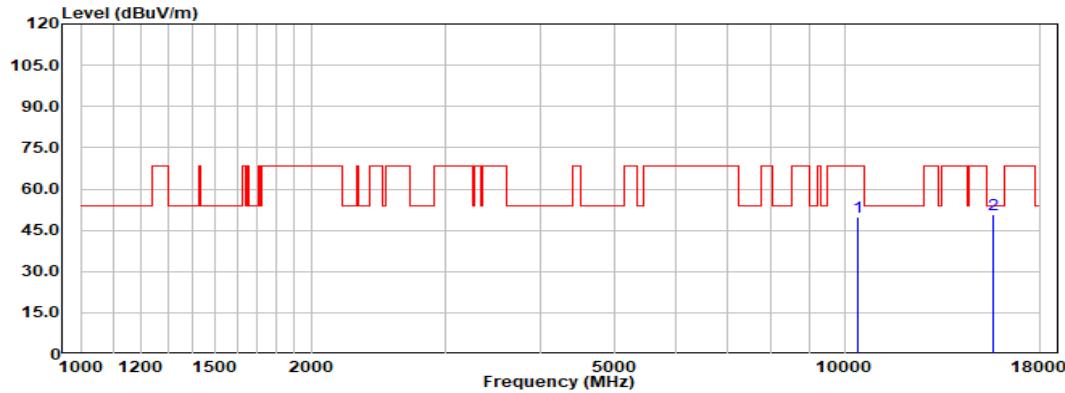
| Freq MHz | Cable Loss dB | Ant Factor dB/m | Read Level dBuV | Over LevelFCC dBuV/m | 5G FCC 5G | Over Remark |
|-------------|---------------------|-----------------------|-----------------------|----------------------------|-----------------|----------------|
| | 10360.000 | 12.58-500.00 | 582.77 | 49.99 | 68.30 | -18.31 Peak |
| 2 15540.000 | 14.80-500.00 | 580.26 | 50.29 | 54.00 | -3.71 | Peak |

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



| Freq | Cable | Ant | Read | Over | | | Remark |
|-------------|--------------|--------|-------|--------|--------|------|--------|
| | Loss | Factor | Level | Level | FCC | 5G | |
| MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 10400.000 | 12.58-500.00 | 582.59 | 49.81 | 68.30 | -18.49 | Peak | |
| 2 15600.000 | 14.80-500.00 | 580.64 | 50.79 | 54.00 | -3.21 | Peak | |



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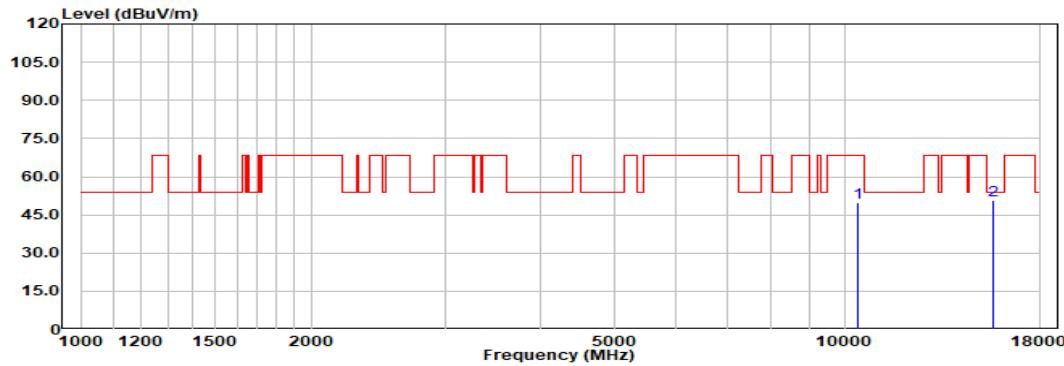
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



| Freq | Cable | Ant | Read | Over | | | Remark |
|-------------|-------|--------|--------|-------|-------|--------|--------|
| | MHz | Loss | Factor | Level | FCC | 5G | |
| 1 10400.000 | 12.58 | 500.00 | 582.56 | 49.78 | 68.30 | -18.52 | Peak |
| 2 15600.000 | 14.80 | 500.00 | 580.48 | 50.63 | 54.00 | -3.37 | Peak |



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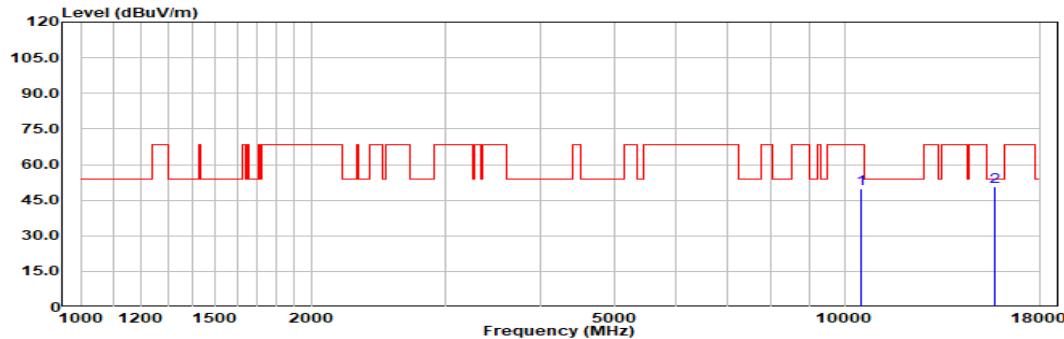
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|-----|--------|
| | | | | Level | FCC | 5G | FCC | |
| 1 10480.000 | 12.60-500.00 | 582.47 | 49.69 | 68.30 | -18.61 | Peak | | |
| 2 15720.000 | 14.81-500.00 | 580.22 | 50.62 | 54.00 | -3.38 | Peak | | |



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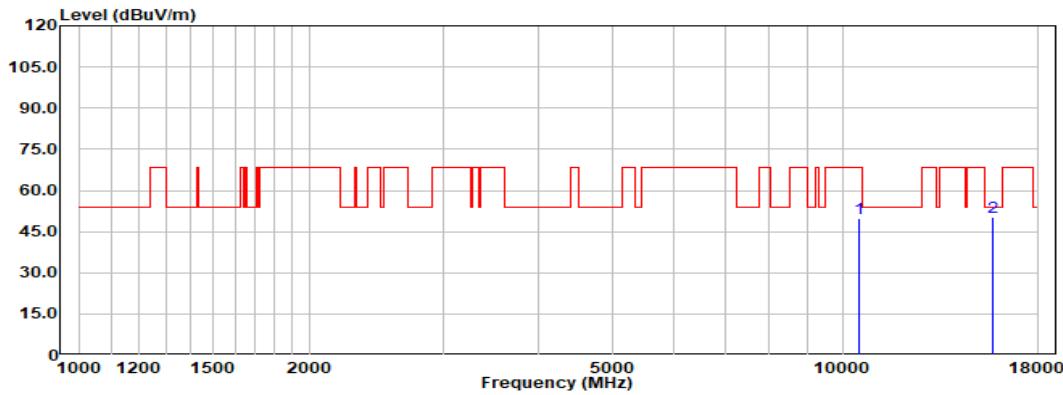
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



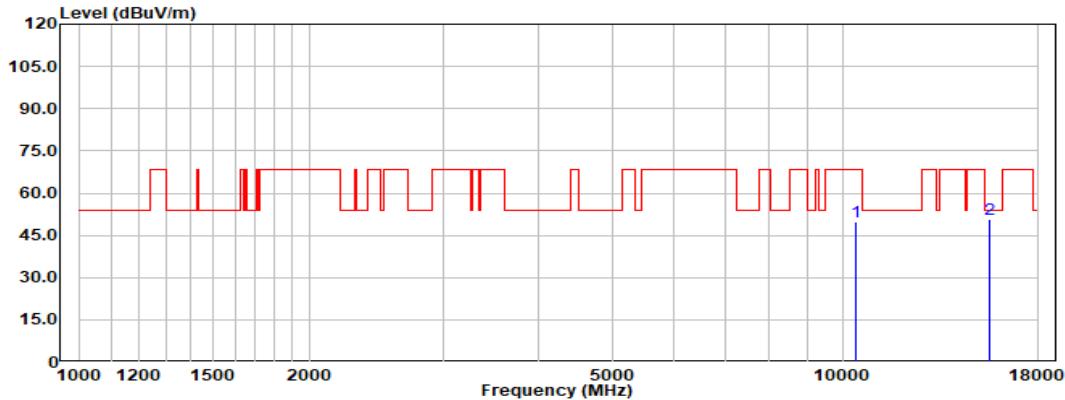
| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|--------|
| | | | | Level | FCC | 5G | |
| 1 10480.000 | 12.60-500.00 | 582.55 | 49.77 | 68.30 | -18.53 | Peak | |
| 2 15720.000 | 14.81-500.00 | 579.81 | 50.21 | 54.00 | -3.79 | Peak | |

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



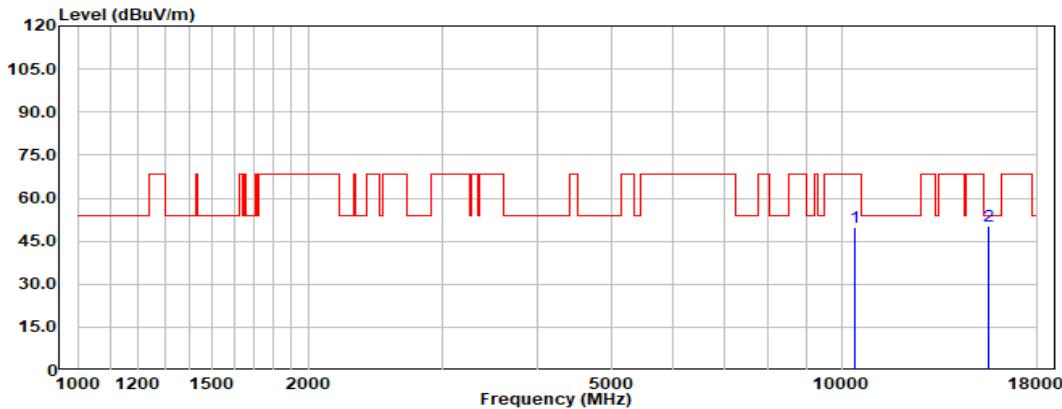
| Freq | Cable | Ant | Read | Over | | | Remark |
|-------------|-------|--------|--------|--------|-------|--------|--------|
| | Loss | Factor | Level | Level | FCC | 5G | |
| MHz | dB | dB/m | dBuV | dBuV/m | | | |
| 1 10380.000 | 12.58 | 500.00 | 582.55 | 49.77 | 68.30 | -18.53 | Peak |
| 2 15570.000 | 14.80 | 500.00 | 580.78 | 50.87 | 54.00 | -3.13 | Peak |

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



| Freq MHz | Cable Loss dB | Ant Factor dB/m | Read Level dBuV | Over | | | Remark |
|-------------|---------------------|-----------------------|-----------------------|----------|-----------|----------|--------|
| | | | | LevelFCC | 5G FCC | 5G 5G | |
| 1 10380.000 | 12.58-500.00 | 582.76 | 49.98 | 68.30 | -18.32 | Peak | |
| 2 15570.000 | 14.80-500.00 | 580.29 | 50.38 | 54.00 | -3.62 | Peak | |



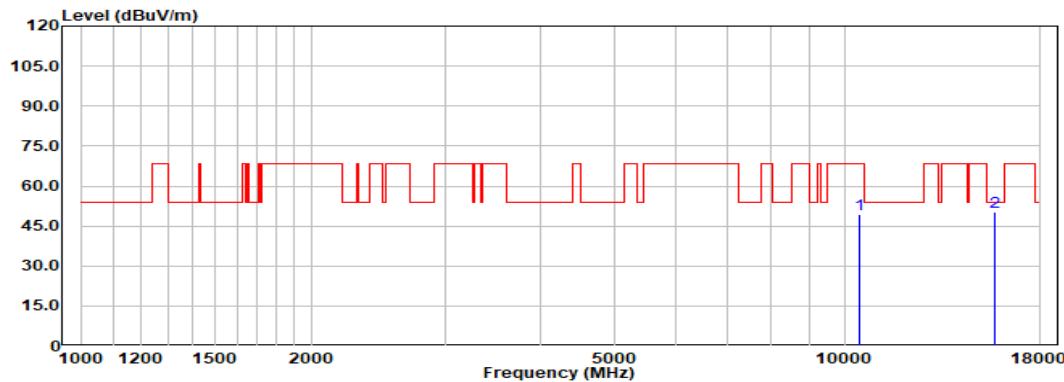
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|-----|--------|
| | | | | Level | FCC | 5G | FCC | |
| 1 10460.000 | 12.60-500.00 | 582.14 | 49.37 | 68.30 | -18.93 | Peak | | |
| 2 15690.000 | 14.81-500.00 | 579.79 | 50.13 | 54.00 | -3.87 | Peak | | |

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EMC Laboratory

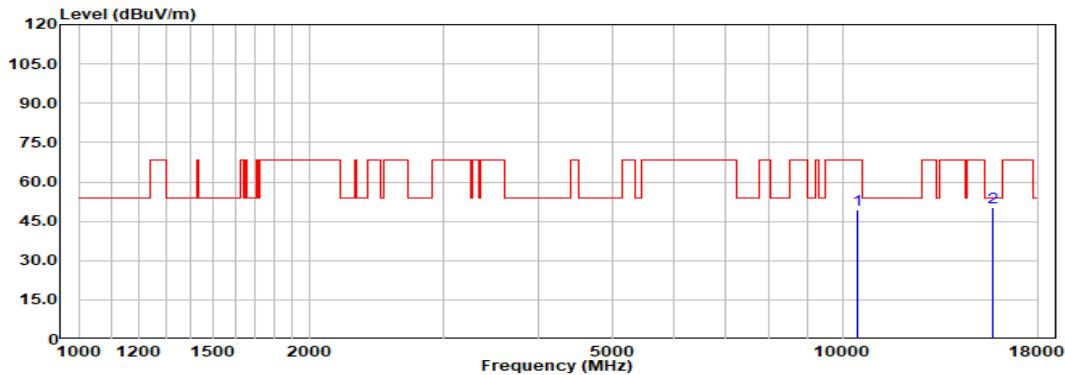
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|-------------|--------------|------------|------------|-------|-------|--------|------|--------|
| | | | | Level | FCC | 5G FCC | 5G | |
| 1 10460.000 | 12.60-500.00 | 500.00 | 582.34 | 49.57 | 68.30 | -18.73 | Peak | |
| 2 15690.000 | 14.81-500.00 | 500.00 | 579.98 | 50.32 | 54.00 | -3.68 | Peak | |

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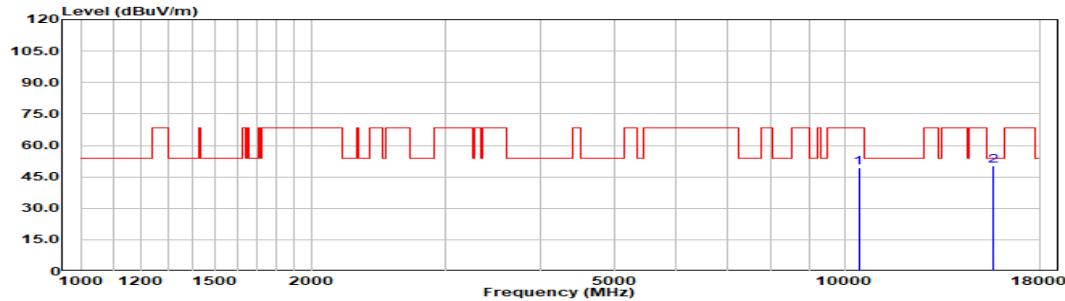
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|-----|--------|
| | | | | Level | FCC | 5G | FCC | |
| 1 10420.000 | 12.59-500.00 | 581.97 | 49.19 | 68.30 | -19.11 | Peak | | |
| 2 15630.000 | 14.80-500.00 | 580.06 | 50.27 | 54.00 | -3.73 | Peak | | |



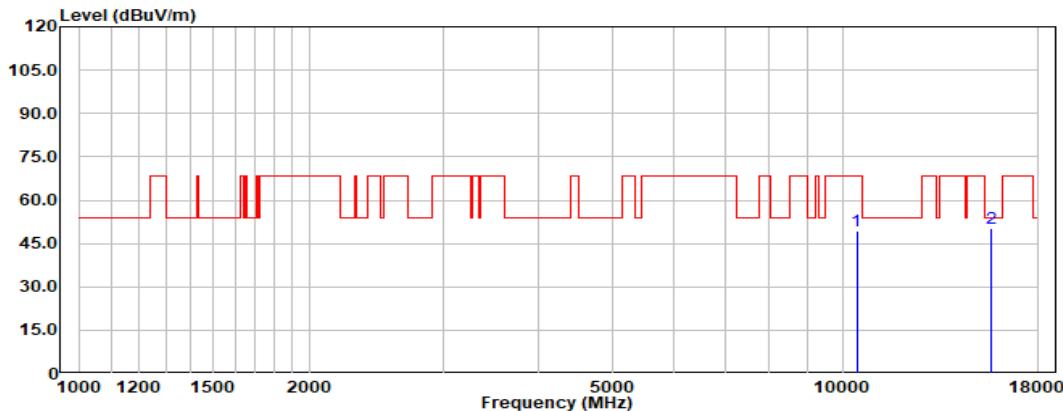
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|-------------|--------------|------------|------------|-------|--------|------|--------|
| | | | | Level | FCC | 5G | |
| 1 10420.000 | 12.59-500.00 | 582.31 | 49.53 | 68.30 | -18.77 | Peak | |
| 2 15630.000 | 14.80-500.00 | 579.88 | 50.09 | 54.00 | -3.91 | Peak | |



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7.7 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 55.5 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

| Pre-scan / Final test | Mode | Description |
|-----------------------|------|-------------|
| | | |

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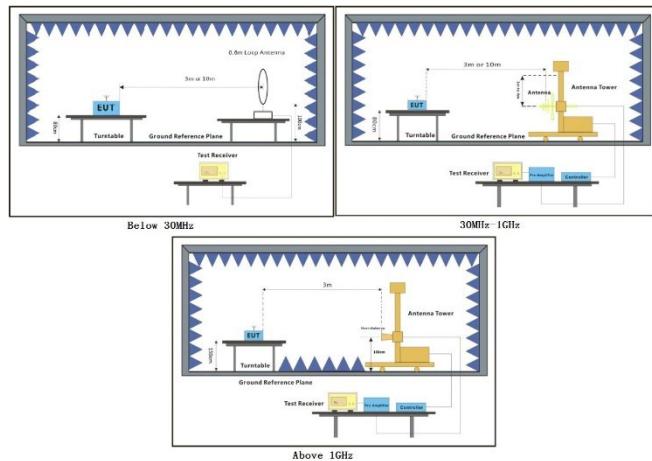
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| | Code | |
|------------|------|--|
| Final test | 01 | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

7.7.3 Test Setup Diagram



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7.7.4 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 or 10 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.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark: This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for 11a modulation and MIMO antenna operation for 11n/ac modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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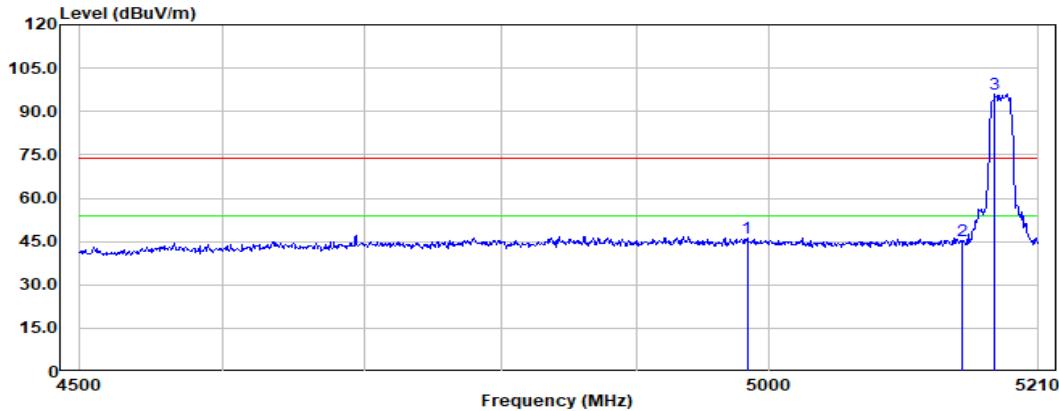
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|------------|------------|------------|------------|-------|-------|--------|--------|
| | | | | Level | FCC | CLA | |
| 1 4983.510 | 8.23 | 32.57 | 53.01 | 46.25 | 74.00 | -27.75 | Peak |
| 2 5150.000 | 8.39 | 32.61 | 51.83 | 45.24 | 74.00 | -28.76 | Peak |
| 3 5175.920 | 8.42 | 32.59 | 102.79 | 96.20 | 74.00 | 22.20 | Peak |



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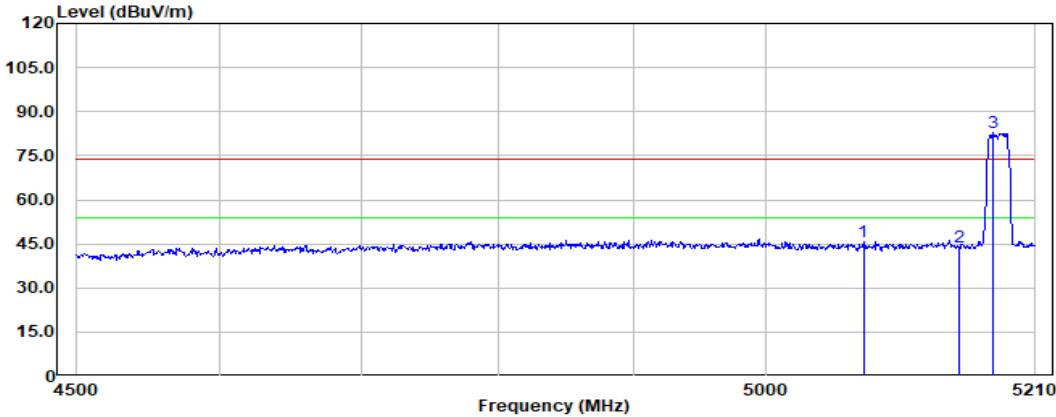
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



| Freq | Cable | Ant | Read | Over | | | Remark |
|------------|-------|--------|-------|-------|--------|--------|--------|
| | Loss | Factor | Level | FCC | CLAFCC | CLA | |
| 1 5075.100 | 8.30 | 32.64 | 52.31 | 45.68 | 74.00 | -28.32 | Peak |
| 2 5150.000 | 8.39 | 32.61 | 50.33 | 43.74 | 74.00 | -30.26 | Peak |
| 3 5176.630 | 8.42 | 32.59 | 89.37 | 82.78 | 74.00 | 8.78 | Peak |



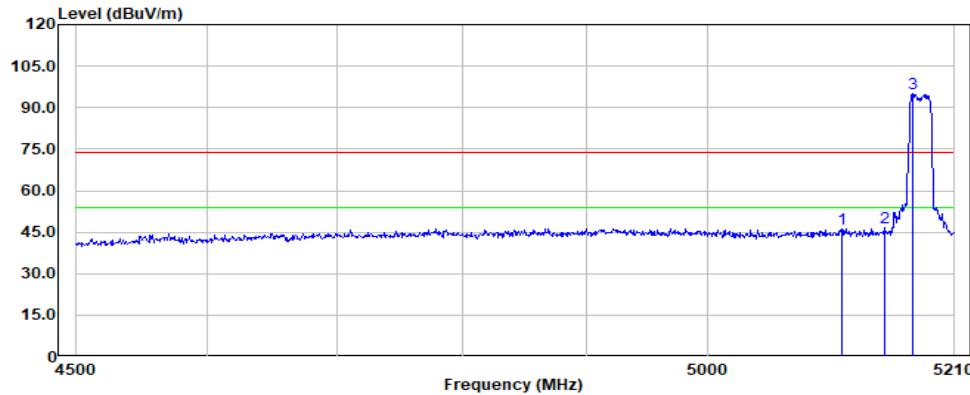
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|------------|------------|------------|------------|-------|-------|--------|--------|
| | | | | FCC | CLA | FCC | |
| 1 5113.440 | 8.34 | 32.64 | 52.83 | 46.23 | 74.00 | -27.77 | Peak |
| 2 5150.000 | 8.39 | 32.61 | 53.26 | 46.67 | 74.00 | -27.33 | Peak |
| 3 5174.500 | 8.42 | 32.59 | 101.74 | 95.15 | 74.00 | 21.15 | Peak |

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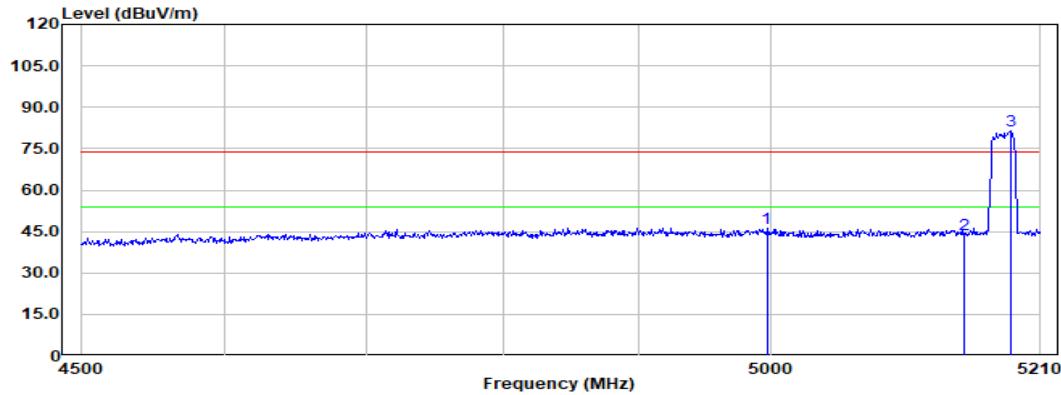
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



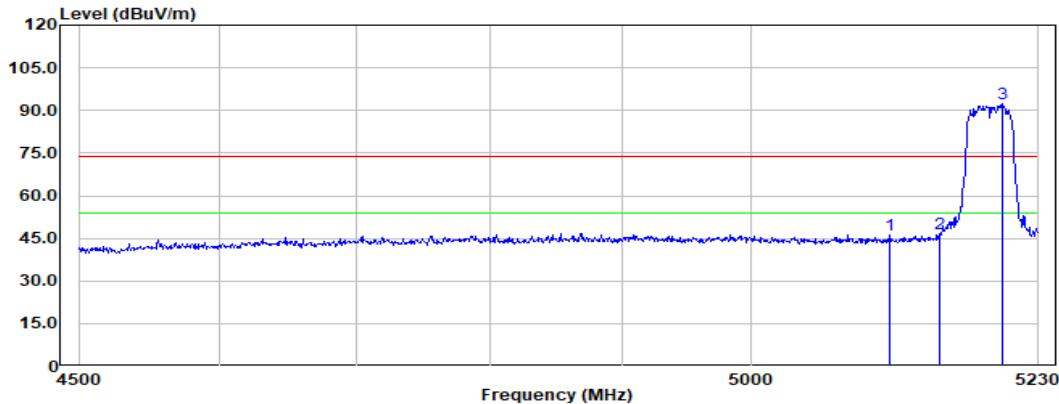
| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|------------|------------|------------|------------|-------|---------|--------|--------|
| | | | | FCC | CLA FCC | CLA | |
| 1 4997.000 | 8.24 | 32.61 | 53.08 | 46.39 | 74.00 | -27.61 | Peak |
| 2 5150.000 | 8.39 | 32.61 | 50.32 | 43.73 | 74.00 | -30.27 | Peak |
| 3 5186.570 | 8.44 | 32.58 | 87.96 | 81.37 | 74.00 | 7.37 | Peak |

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|------------|------------|------------|------------|-------|-------|--------|------|--------|
| | | | | Level | FCC | CLA | FCC | |
| 1 5110.280 | 8.34 | 32.64 | 52.98 | 46.38 | 74.00 | -27.62 | Peak | |
| 2 5150.000 | 8.39 | 32.61 | 53.30 | 46.71 | 74.00 | -27.29 | Peak | |
| 3 5200.800 | 8.46 | 32.57 | 98.86 | 92.28 | 74.00 | 18.28 | Peak | |



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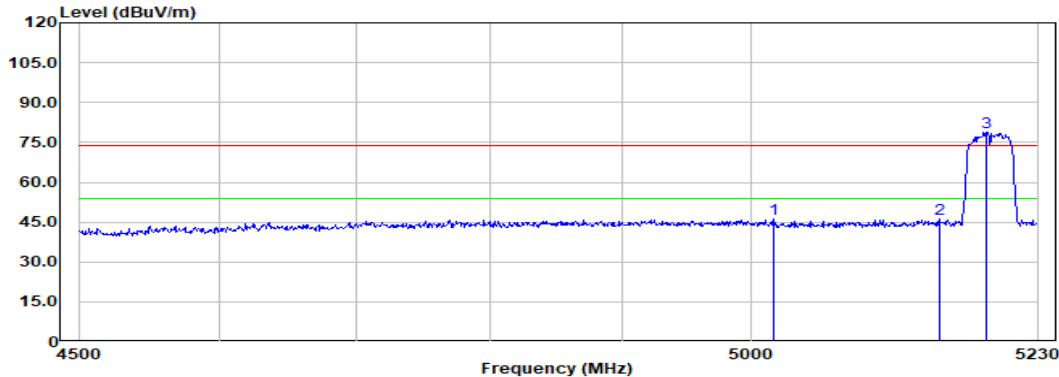
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Report No.: KSCR220600092202

Page: 91 of 126

Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|------------|------------|------------|------------|-------|-------|--------|--------|
| | | | | Level | FCC | CLAFCC | |
| 1 5017.570 | 8.25 | 32.63 | 52.67 | 46.00 | 74.00 | -28.00 | Peak |
| 2 5150.000 | 8.39 | 32.61 | 52.60 | 46.01 | 74.00 | -27.99 | Peak |
| 3 5187.660 | 8.44 | 32.58 | 85.42 | 78.83 | 74.00 | 4.83 | Peak |

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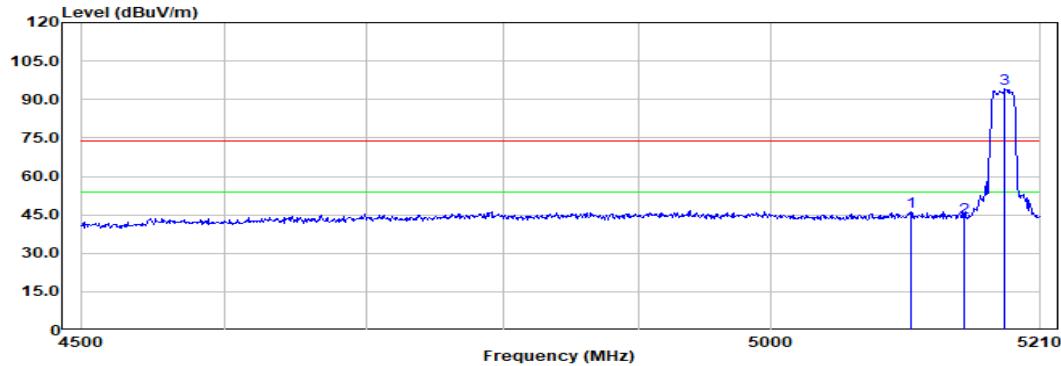
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Report No.: KSCR220600092202

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|------------|------------|------------|------------|-------|-------|--------|------|--------|
| | | | | FCC | CLA | FCC | CLA | |
| 1 5107.760 | 8.34 | 32.64 | 52.79 | 46.19 | 74.00 | -27.81 | Peak | |
| 2 5150.000 | 8.39 | 32.61 | 50.59 | 44.00 | 74.00 | -30.00 | Peak | |
| 3 5182.310 | 8.43 | 32.58 | 100.98 | 94.39 | 74.00 | 20.39 | Peak | |

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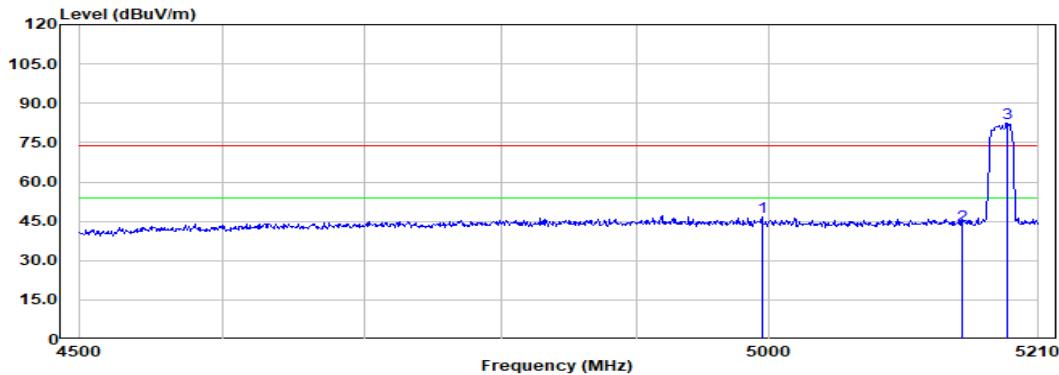
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Report No.: KSCR220600092202

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|------------|------------|------------|------------|-------|-------|--------|------|--------|
| | | | | Level | FCC | CLA | FCC | |
| 1 4994.870 | 8.23 | 32.60 | 53.17 | 46.45 | 74.00 | -27.55 | Peak | |
| 2 5150.000 | 8.39 | 32.61 | 50.19 | 43.60 | 74.00 | -30.40 | Peak | |
| 3 5185.860 | 8.44 | 32.58 | 88.96 | 82.37 | 74.00 | 8.37 | Peak | |

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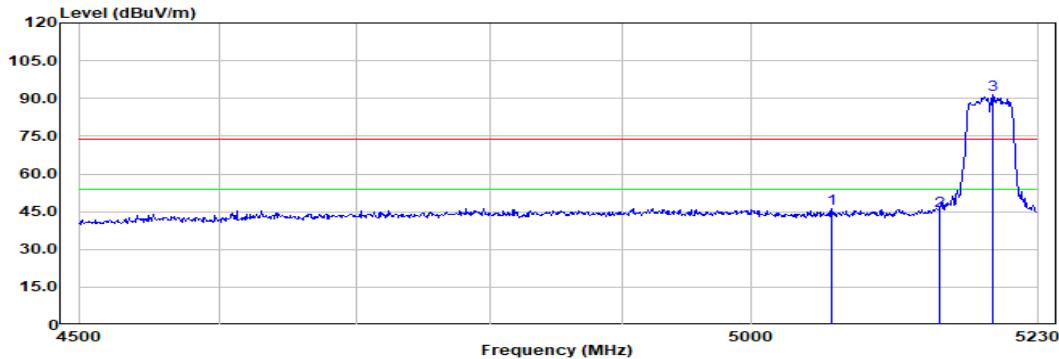
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Report No.: KSCR220600092202

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|------------|------------|------------|------------|-------|-------|--------|--------|
| | | | | Level | FCC | CLA | |
| 1 5063.560 | 8.28 | 32.64 | 52.69 | 46.05 | 74.00 | -27.95 | Peak |
| 2 5150.000 | 8.39 | 32.61 | 51.88 | 45.29 | 74.00 | -28.71 | Peak |
| 3 5193.500 | 8.45 | 32.58 | 97.92 | 91.34 | 74.00 | 17.34 | Peak |

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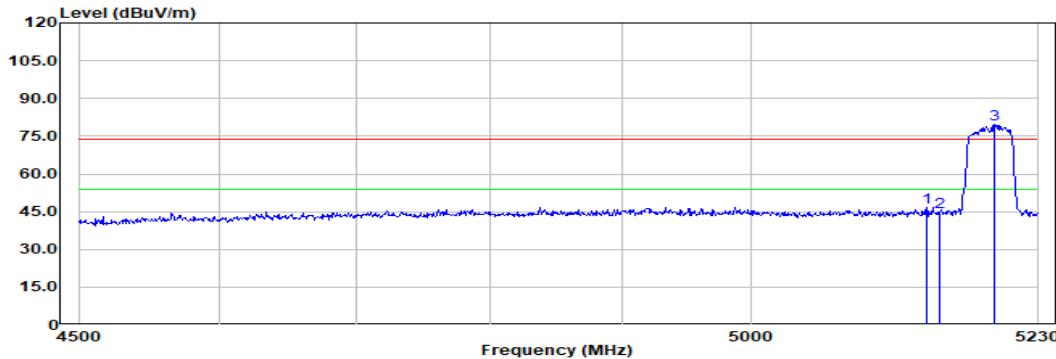


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|------------|------------|------------|------------|-------|-------|--------|--------|
| | | | | Level | FCC | CLA | |
| 1 5139.480 | 8.38 | 32.62 | 53.18 | 46.59 | 74.00 | -27.41 | Peak |
| 2 5150.000 | 8.39 | 32.61 | 51.32 | 44.73 | 74.00 | -29.27 | Peak |
| 3 5194.230 | 8.45 | 32.57 | 86.09 | 79.50 | 74.00 | 5.50 | Peak |

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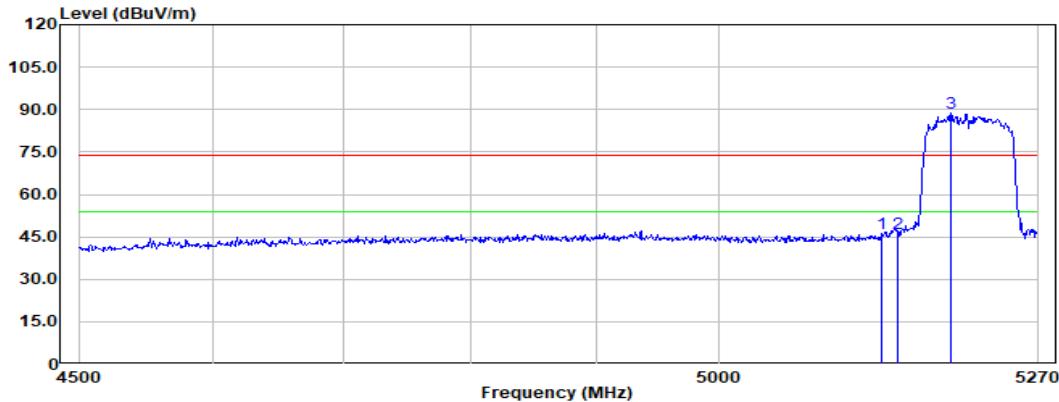
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Report No.: KSCR220600092202

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|------------|------------|------------|------------|-------|-------|--------|------|--------|
| | | | | Level | FCC | CLA | FCC | |
| 1 5136.020 | 8.37 | 32.62 | 52.57 | 45.97 | 74.00 | -28.03 | Peak | |
| 2 5150.000 | 8.39 | 32.61 | 52.57 | 45.98 | 74.00 | -28.02 | Peak | |
| 3 5195.310 | 8.45 | 32.57 | 95.23 | 88.64 | 74.00 | 14.64 | Peak | |

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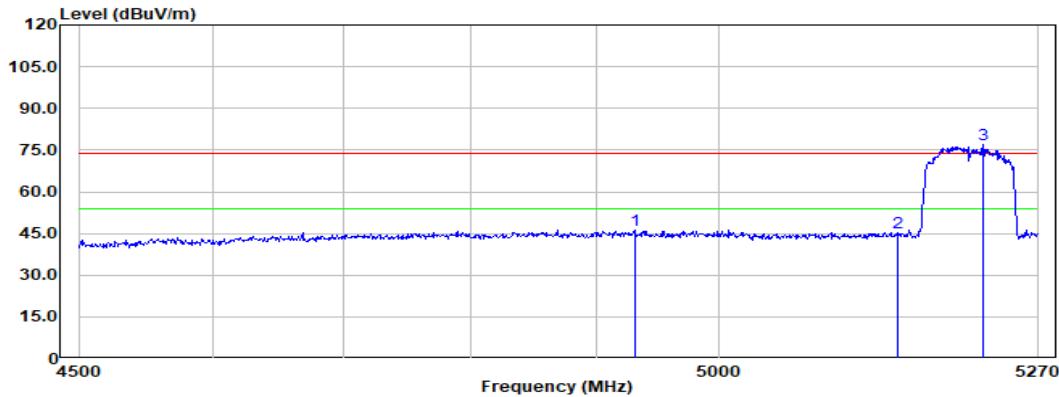
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



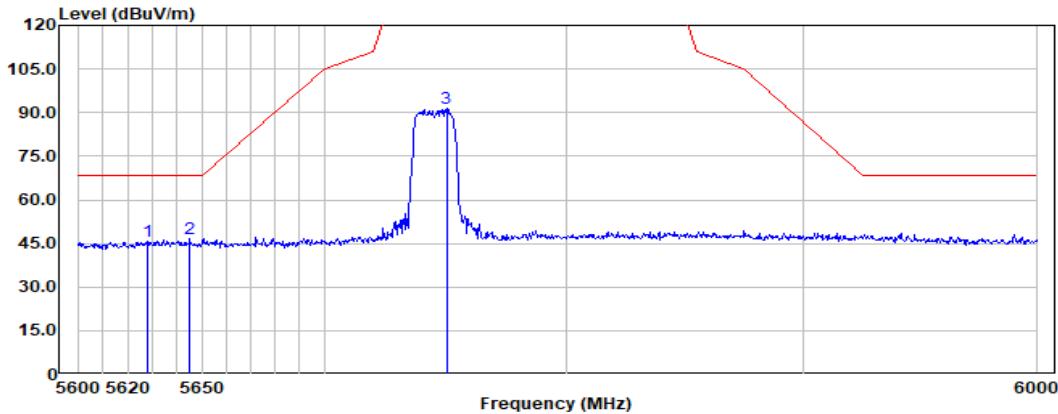
| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|------------|------------|------------|------------|----------|-------|--------|--------|
| | | | | LevelFCC | CLA | FCC | |
| 1 4931.200 | 8.20 | 32.41 | 53.11 | 46.11 | 74.00 | -27.89 | Peak |
| 2 5150.000 | 8.39 | 32.61 | 51.94 | 45.35 | 74.00 | -28.65 | Peak |
| 3 5222.260 | 8.48 | 32.56 | 83.28 | 76.76 | 74.00 | 2.76 | Peak |

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|------------|------------|------------|------------|-------|--------|--------|------|--------|
| | | | | Level | FCC | 5G | FCC | |
| 1 5628.000 | 8.95 | 32.74 | 51.31 | 45.81 | 68.20 | -22.39 | Peak | |
| 2 5645.200 | 8.95 | 32.82 | 51.97 | 46.57 | 68.20 | -21.63 | Peak | |
| 3 5750.400 | 9.01 | 33.27 | 96.21 | 91.43 | 135.00 | -43.57 | Peak | |



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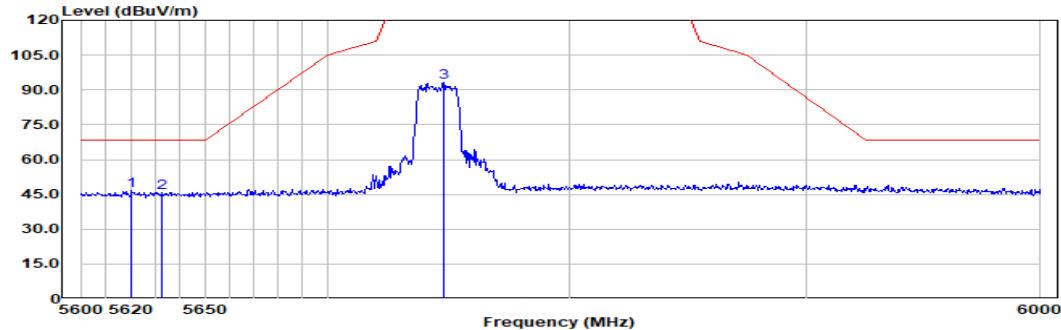
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|------------|------------|------------|------------|-------|--------|--------|--------|
| | | | | Level | FCC | 5G | |
| 1 5620.400 | 8.94 | 32.71 | 52.04 | 46.49 | 68.20 | -21.71 | Peak |
| 2 5632.800 | 8.95 | 32.76 | 51.36 | 45.88 | 68.20 | -22.32 | Peak |
| 3 5748.000 | 9.01 | 33.26 | 98.15 | 93.36 | 135.00 | -41.64 | Peak |



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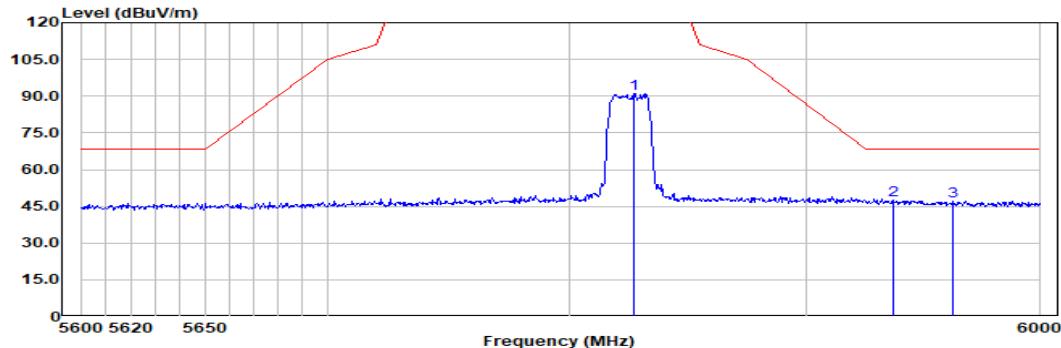
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



| Freq | Cable | Ant | Read | Over | | | | Remark |
|------------|-------|--------|-------|--------|--------|--------|------|--------|
| | Loss | Factor | Level | Level | FCC | 5G | FCC | |
| MHz | dB | dB/m | dBuV | dBuV/m | | | | |
| 1 5827.200 | 9.05 | 33.53 | 95.63 | 91.15 | 135.00 | -43.85 | Peak | |
| 2 5936.800 | 9.11 | 33.55 | 52.18 | 47.58 | 68.20 | -20.62 | Peak | |
| 3 5962.800 | 9.12 | 33.52 | 51.88 | 47.21 | 68.20 | -20.99 | Peak | |

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EMC Laboratory

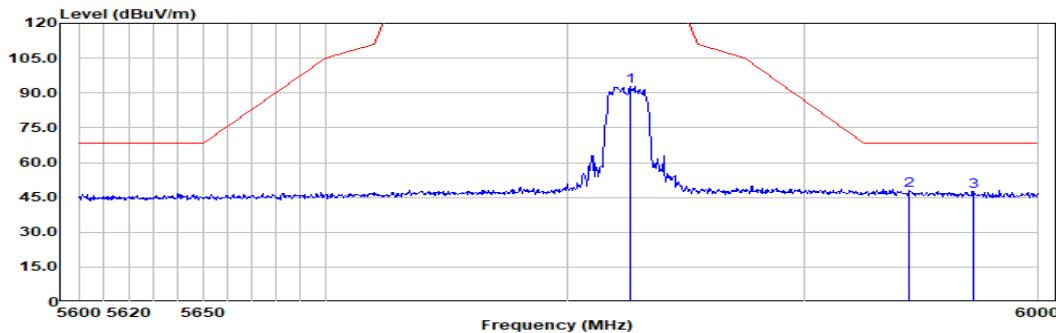
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Report No.: KSCR220600092202

Page: 101 of 126

Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|------------|------------|------------|------------|-------|--------|--------|--------|
| | | | | Level | FCC | 5G | |
| 1 5826.400 | 9.05 | 33.53 | 97.30 | 92.82 | 135.00 | -42.18 | Peak |
| 2 5944.800 | 9.11 | 33.54 | 52.69 | 48.06 | 68.20 | -20.14 | Peak |
| 3 5972.000 | 9.13 | 33.51 | 52.10 | 47.41 | 68.20 | -20.79 | Peak |



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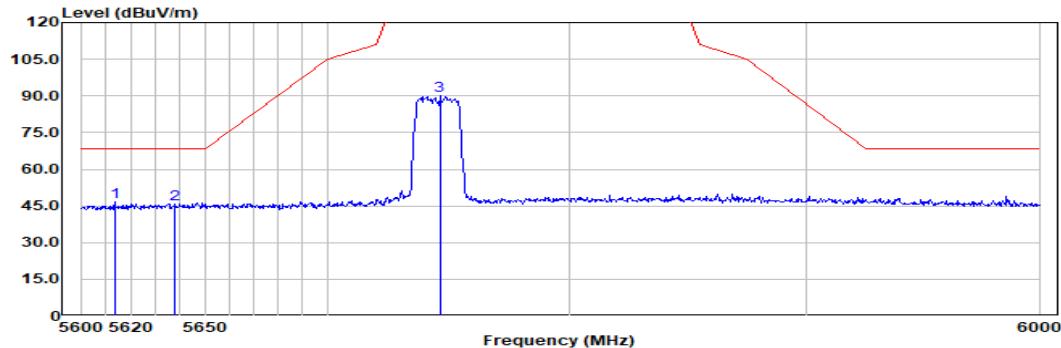
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



| Freq | Cable | Ant | Read | Over | | | Remark |
|------------|-------|--------|-------|-------|--------|--------|--------|
| | Loss | Factor | Level | Level | FCC | 5G | |
| 1 5613.600 | MHz | dB | dB/m | dBuV | dBuV/m | | |
| 2 5638.000 | 8.94 | 32.69 | 52.23 | 46.65 | 68.20 | -21.55 | Peak |
| 3 5746.400 | 8.95 | 32.79 | 51.22 | 45.78 | 68.20 | -22.42 | Peak |
| | 9.01 | 33.25 | 94.70 | 89.89 | 135.00 | -45.11 | Peak |

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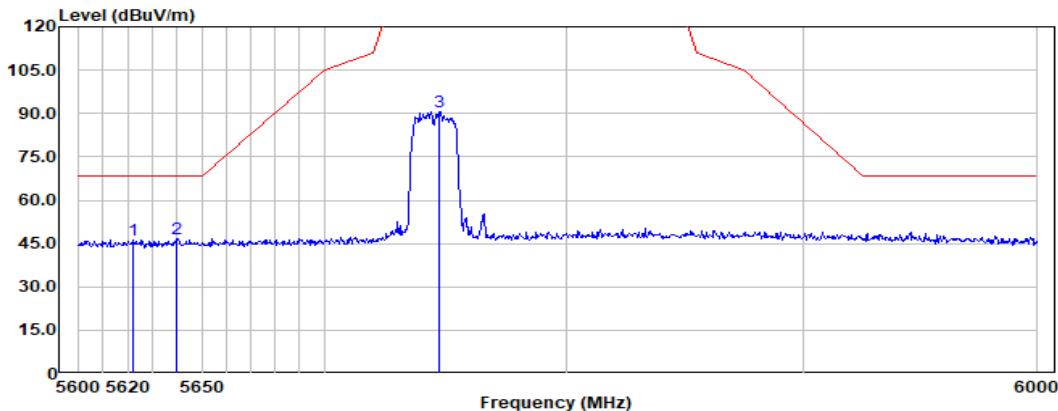


Compliance Certification Services (Kunshan) Inc.
EMC Laboratory

Test Report Form Version: Rev01

Member of the SGS Group (SGS SA)

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|------------|------------|------------|------------|-------|--------|--------|--------|
| | | | | Level | FCC | 5G | |
| 1 5622.400 | 8.94 | 32.72 | 51.75 | 46.21 | 68.20 | -21.99 | Peak |
| 2 5640.000 | 8.95 | 32.79 | 52.17 | 46.73 | 68.20 | -21.47 | Peak |
| 3 5747.600 | 9.01 | 33.26 | 95.47 | 90.67 | 135.00 | -44.33 | Peak |

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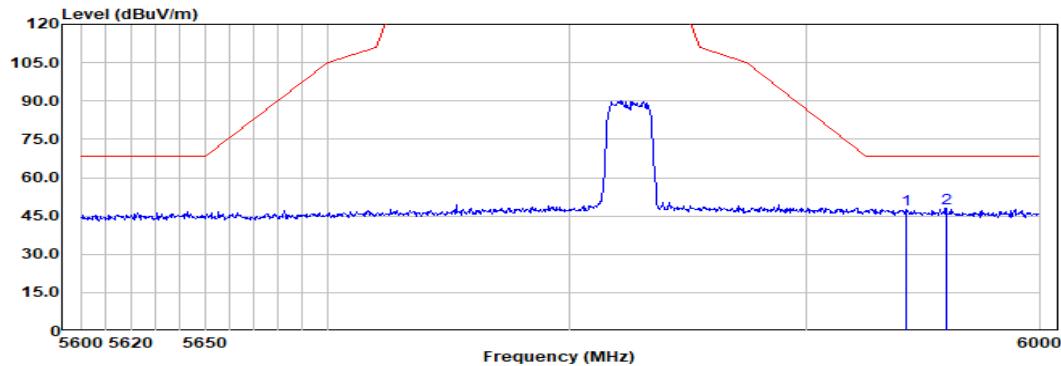
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Report No.: KSCR220600092202

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|------------|------------|------------|------------|-------|--------|--------|------|--------|
| | | | | FCC | 5G FCC | 5G | FCC | |
| 1 5942.800 | 9.11 | 33.54 | 52.24 | 47.62 | 68.20 | -20.58 | Peak | |
| 2 5959.600 | 9.12 | 33.52 | 52.72 | 48.05 | 68.20 | -20.15 | Peak | |



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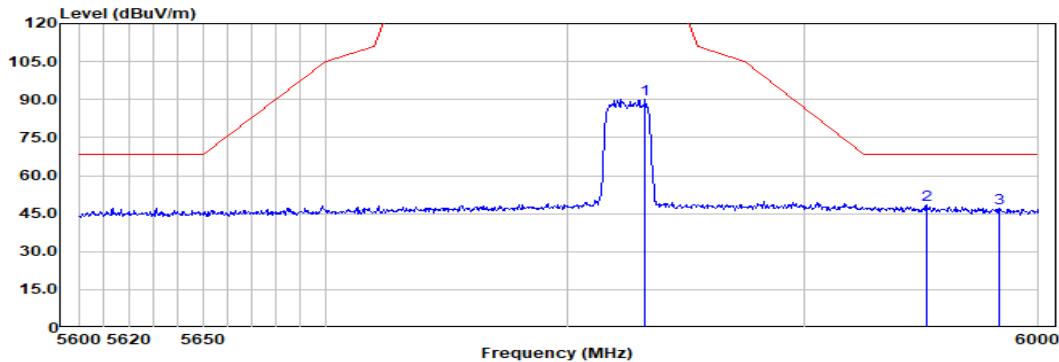
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Report No.: KSCR220600092202

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|------------|------------|------------|------------|-------|--------|--------|------|--------|
| | | | | Level | FCC | 5G FCC | 5G | |
| 1 5832.800 | 9.05 | 33.53 | 94.81 | 90.32 | 135.00 | -44.68 | Peak | |
| 2 5952.000 | 9.11 | 33.53 | 53.08 | 48.43 | 68.20 | -19.77 | Peak | |
| 3 5983.200 | 9.13 | 33.49 | 51.72 | 46.99 | 68.20 | -21.21 | Peak | |

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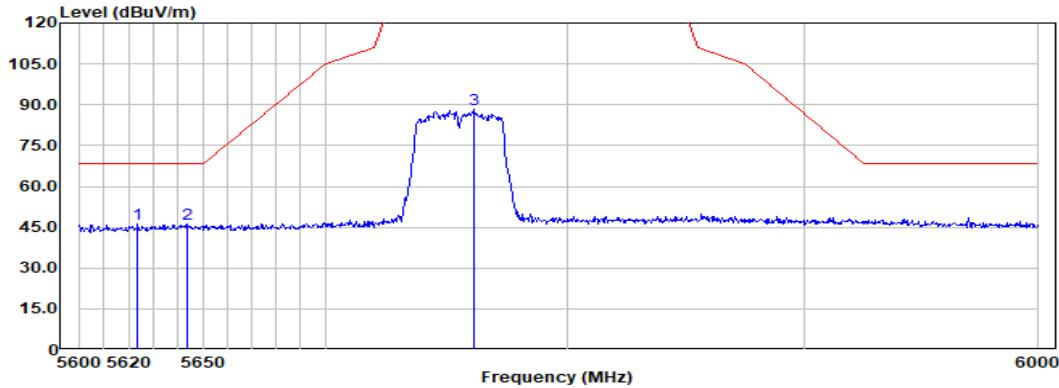
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Report No.: KSCR220600092202

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|------------|------------|------------|------------|-------|--------|--------|--------|
| | | | | Level | FCC | 5G | |
| 1 5623.600 | 8.94 | 32.73 | 51.69 | 46.16 | 68.20 | -22.04 | Peak |
| 2 5643.600 | 8.95 | 32.81 | 51.58 | 46.17 | 68.20 | -22.03 | Peak |
| 3 5761.600 | 9.02 | 33.32 | 93.11 | 88.40 | 135.00 | -46.60 | Peak |



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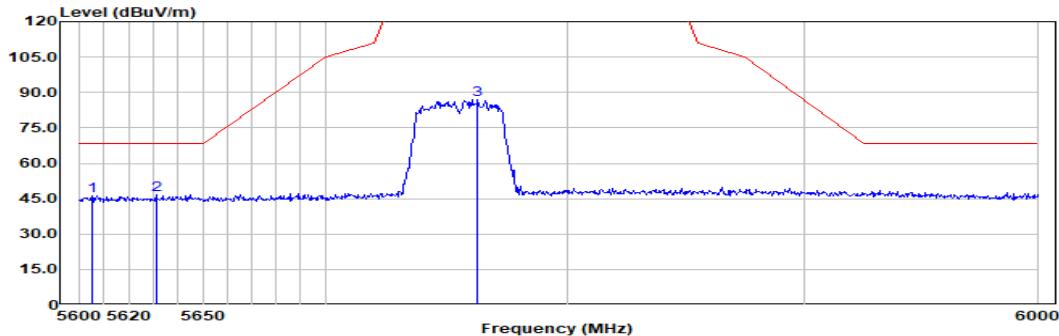
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|------------|------------|------------|------------|-------|--------|--------|------|--------|
| | | | | Level | FCC | 5G | FCC | |
| 1 5605.200 | 8.93 | 32.65 | 51.79 | 46.16 | 68.20 | -22.04 | Peak | |
| 2 5631.200 | 8.95 | 32.76 | 52.02 | 46.54 | 68.20 | -21.66 | Peak | |
| 3 5762.800 | 9.02 | 33.33 | 91.87 | 87.17 | 135.00 | -47.83 | Peak | |



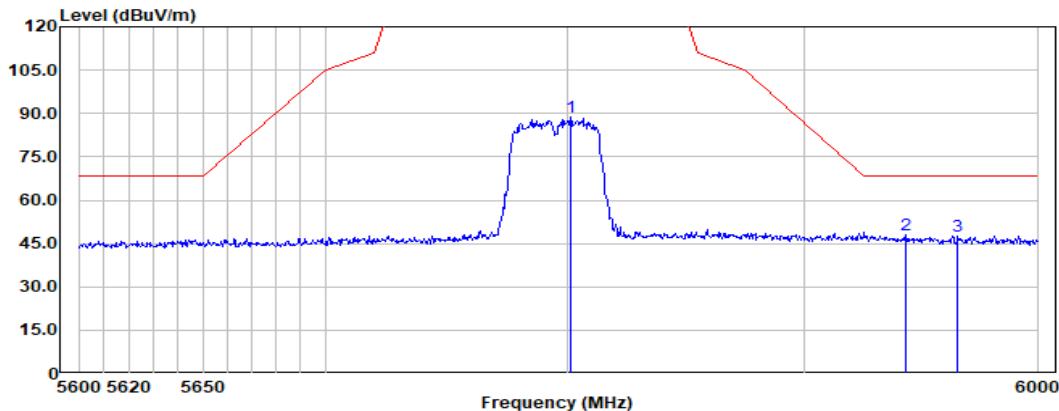
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|------------|------------|------------|------------|-------|--------|--------|--------|
| | | | | Level | FCC | 5G | |
| 1 5801.600 | 9.04 | 33.50 | 93.04 | 88.57 | 135.00 | -46.43 | Peak |
| 2 5943.200 | 9.11 | 33.54 | 52.64 | 48.02 | 68.20 | -20.18 | Peak |
| 3 5965.600 | 9.12 | 33.51 | 52.30 | 47.61 | 68.20 | -20.59 | Peak |



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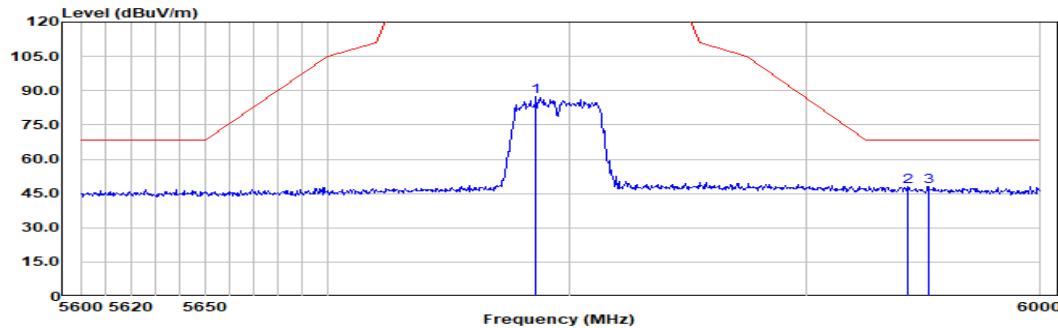
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



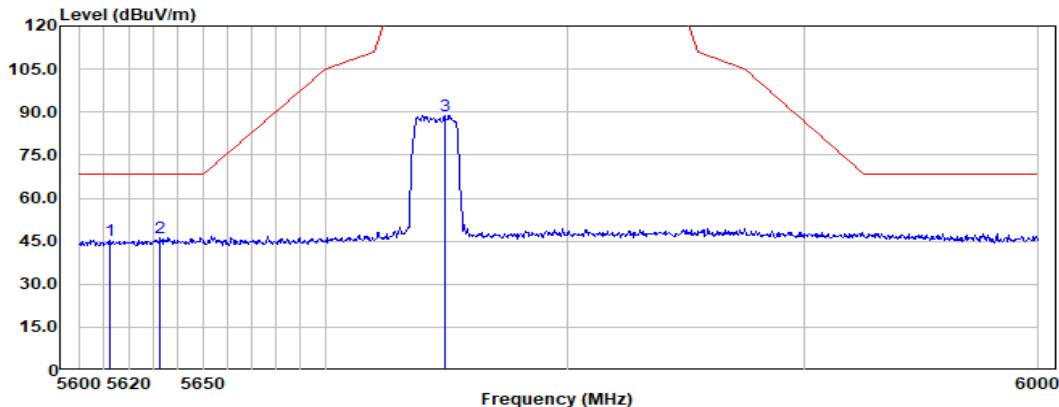
| Freq | MHz | Cable | Ant | Read | Over | | | Remark |
|------|----------|-------|--------|-------|-------|--------|--------|--------|
| | | Loss | Factor | Level | FCC | 5G | FCC | |
| 1 | 5786.400 | 9.03 | 33.44 | 91.79 | 87.24 | 135.00 | -47.76 | Peak |
| 2 | 5943.200 | 9.11 | 33.54 | 52.84 | 48.22 | 68.20 | -19.98 | Peak |
| 3 | 5952.000 | 9.11 | 33.53 | 52.85 | 48.20 | 68.20 | -20.00 | Peak |

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



| | Freq | Cable | Ant | Read | Over | | | | Remark |
|---|----------|-------|--------|-------|-------|--------|--------|------|--------|
| | | Loss | Factor | Level | Level | FCC | 5G | FCC | |
| 1 | 5612.400 | 8.94 | 32.68 | 50.91 | 45.32 | 68.20 | -22.88 | Peak | |
| 2 | 5632.800 | 8.95 | 32.76 | 51.62 | 46.14 | 68.20 | -22.06 | Peak | |
| 3 | 5749.200 | 9.01 | 33.27 | 93.70 | 88.92 | 135.00 | -46.08 | Peak | |

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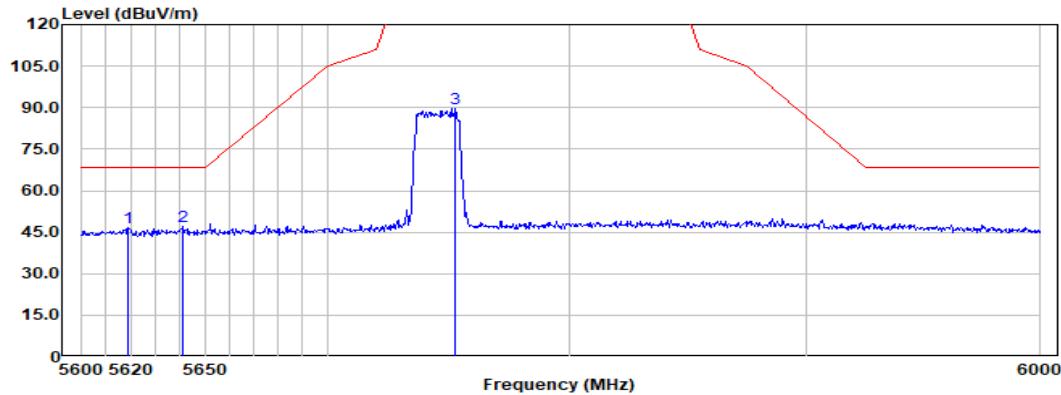
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|------------|------------|------------|------------|-------|--------|--------|--------|
| | | | | Level | FCC | 5G | |
| 1 5618.800 | 8.94 | 32.71 | 52.22 | 46.67 | 68.20 | -21.53 | Peak |
| 2 5641.200 | 8.95 | 32.80 | 52.32 | 46.89 | 68.20 | -21.31 | Peak |
| 3 5752.800 | 9.01 | 33.28 | 94.50 | 89.73 | 135.00 | -45.27 | Peak |



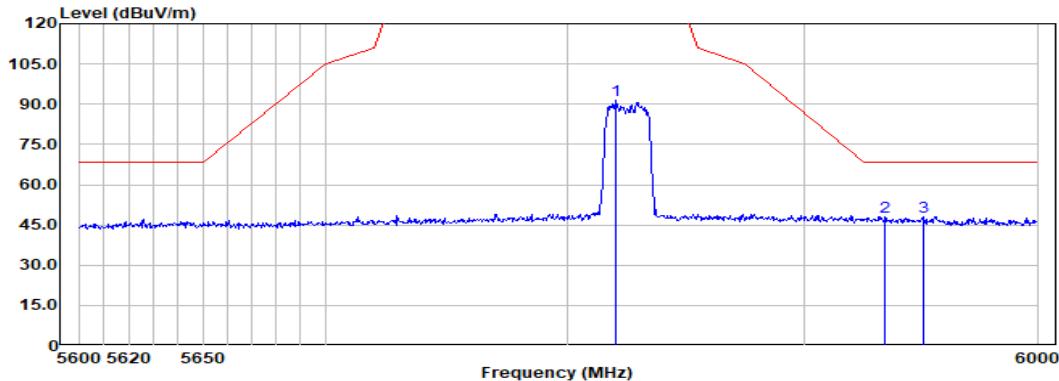
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|------------|------------|------------|------------|-------|--------|--------|------|--------|
| | | | | Level | FCC | 5G | FCC | |
| 1 5820.400 | 9.05 | 33.52 | 95.78 | 91.30 | 135.00 | -43.70 | Peak | |
| 2 5934.400 | 9.11 | 33.56 | 52.79 | 48.20 | 68.20 | -20.00 | Peak | |
| 3 5950.800 | 9.11 | 33.53 | 52.58 | 47.93 | 68.20 | -20.27 | Peak | |

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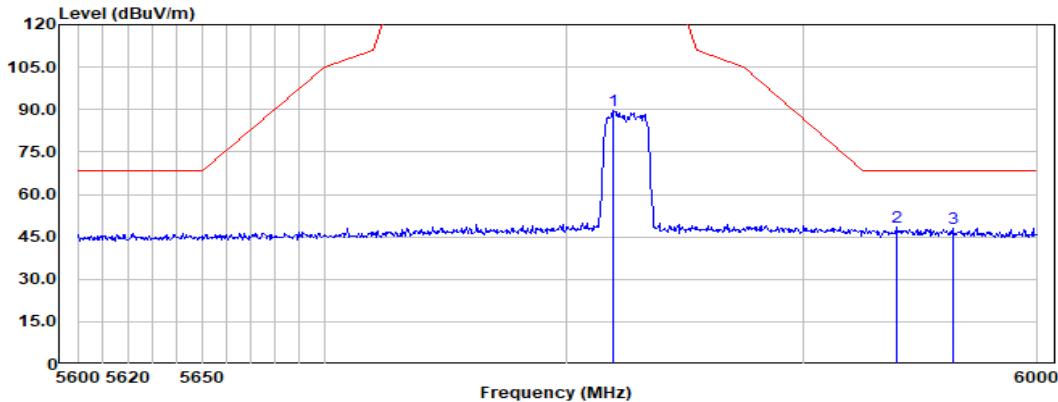
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Report No.: KSCR220600092202

Page: 113 of 126

Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



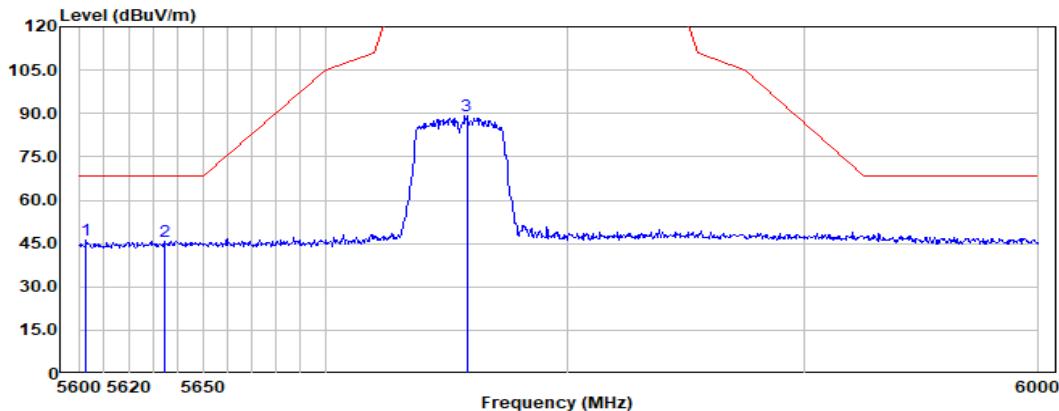
| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|------------|------------|------------|------------|-------|--------|--------|--------|
| | | | | Level | FCC | 5G | |
| 1 5820.000 | 9.05 | 33.52 | 94.00 | 89.52 | 135.00 | -45.48 | Peak |
| 2 5940.000 | 9.11 | 33.55 | 53.20 | 48.59 | 68.20 | -19.61 | Peak |
| 3 5963.600 | 9.12 | 33.52 | 52.87 | 48.20 | 68.20 | -20.00 | Peak |

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|------------|------------|------------|------------|-------|--------|--------|--------|
| | | | | Level | FCC | 5G | |
| 1 5602.800 | 8.93 | 32.64 | 51.62 | 45.97 | 68.20 | -22.23 | Peak |
| 2 5634.800 | 8.95 | 32.77 | 51.40 | 45.94 | 68.20 | -22.26 | Peak |
| 3 5758.400 | 9.01 | 33.31 | 93.95 | 89.22 | 135.00 | -45.78 | Peak |



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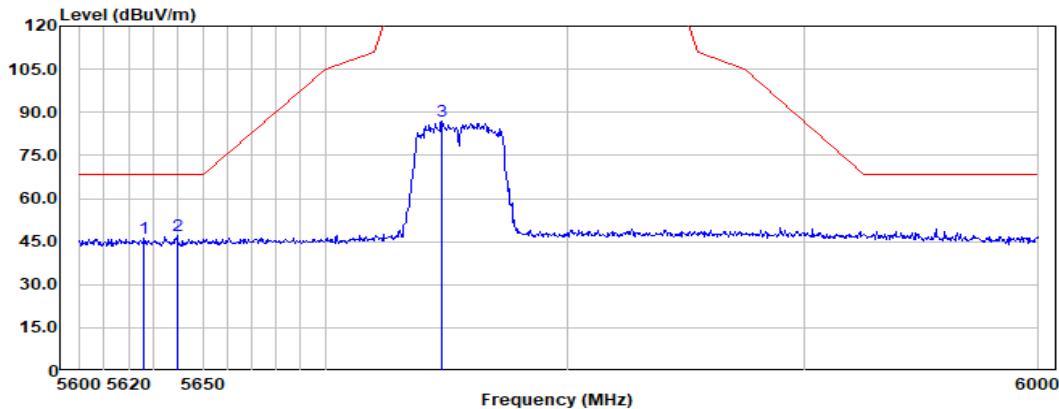
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | | Remark |
|------------|------------|------------|------------|-------|--------|--------|------|--------|
| | | | | Level | FCC | 5G FCC | 5G | |
| 1 5626.400 | 8.94 | 32.74 | 51.48 | 45.97 | 68.20 | -22.23 | Peak | |
| 2 5639.600 | 8.95 | 32.79 | 52.47 | 47.03 | 68.20 | -21.17 | Peak | |
| 3 5748.000 | 9.01 | 33.26 | 91.75 | 86.96 | 135.00 | -48.04 | Peak | |



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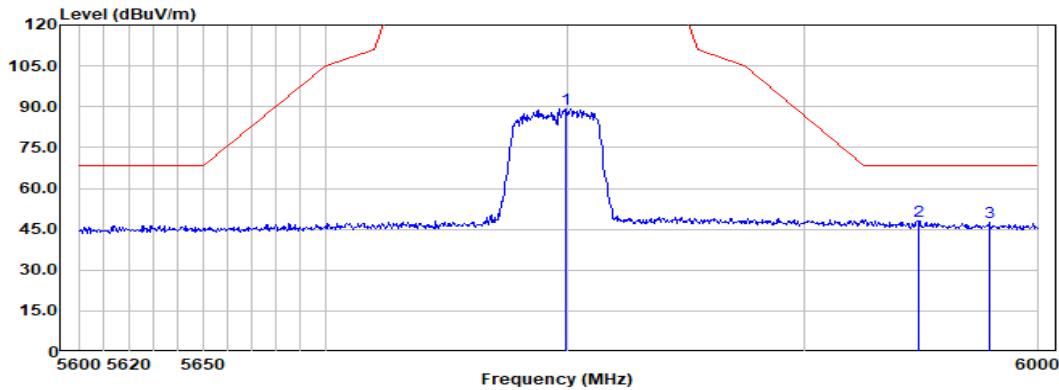
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



| Freq | Cable Loss | Ant Factor | Read Level | Over | | | Remark |
|------------|------------|------------|------------|-------|--------|--------|--------|
| | | | | Level | FCC | 5G | |
| 1 5799.600 | 9.04 | 33.50 | 93.90 | 89.43 | 135.00 | -45.57 | Peak |
| 2 5948.400 | 9.11 | 33.54 | 52.83 | 48.20 | 68.20 | -20.00 | Peak |
| 3 5978.800 | 9.13 | 33.50 | 52.14 | 47.43 | 68.20 | -20.77 | Peak |



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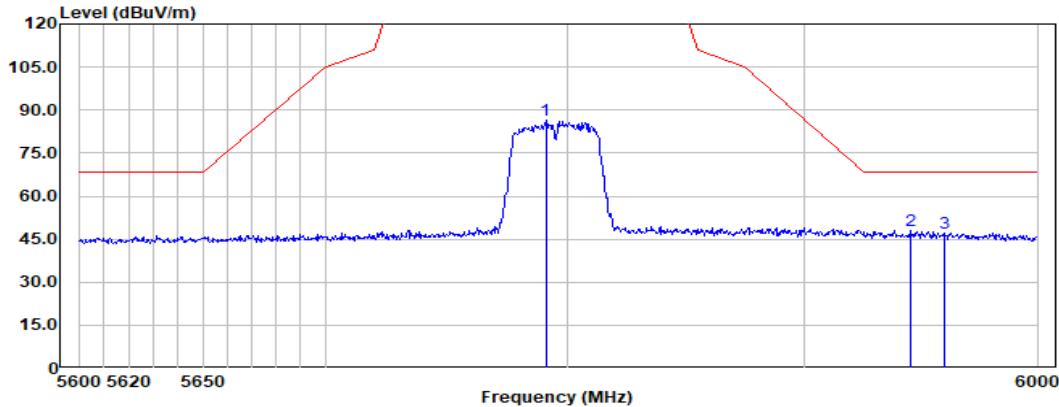
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



| Freq | MHz | Cable | Ant | Read | Over | | | | Remark |
|------|----------|-------|--------|-------|-------|--------|--------|------|--------|
| | | Loss | Factor | Level | Level | FCC | 5G | FCC | |
| 1 | 5791.200 | 9.03 | 33.46 | 91.00 | 86.47 | 135.00 | -48.53 | Peak | |
| 2 | 5945.200 | 9.11 | 33.54 | 52.81 | 48.18 | 68.20 | -20.02 | Peak | |
| 3 | 5960.000 | 9.12 | 33.52 | 51.90 | 47.23 | 68.20 | -20.97 | Peak | |

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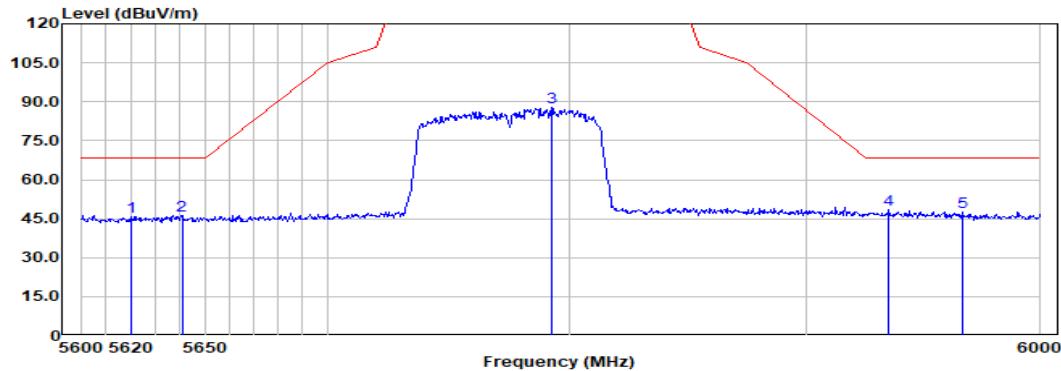
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



| Freq | Cable | Ant | Read | Over | | | | | Remark |
|------------|-------|-------|--------|-------|--------|--------|------|-----|--------|
| | Freq | Loss | Factor | Level | Level | FCC | 5G | FCC | |
| 1 5620.000 | 8.94 | 32.71 | 51.41 | 45.86 | 68.20 | -22.34 | Peak | | |
| 2 5640.800 | 8.95 | 32.80 | 51.68 | 46.25 | 68.20 | -21.95 | Peak | | |
| 3 5792.800 | 9.03 | 33.47 | 92.18 | 87.66 | 135.00 | -47.34 | Peak | | |
| 4 5935.200 | 9.11 | 33.55 | 53.23 | 48.63 | 68.20 | -19.57 | Peak | | |
| 5 5966.400 | 9.12 | 33.51 | 52.45 | 47.76 | 68.20 | -20.44 | Peak | | |

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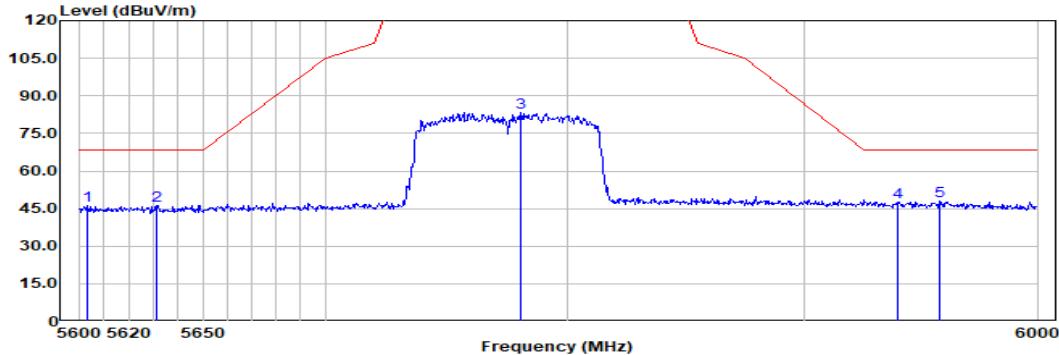
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



| Freq MHz | Cable Loss dB | Ant Factor dB/m | Read Level dBuV | Over Level | | | | Remark |
|-------------|---------------------|-----------------------|-----------------------|---------------|--------|--------|------|--------|
| | | | | FCC | 5G | FCC | 5G | |
| 1 5603.200 | 8.93 | 32.64 | 52.03 | 46.38 | 68.20 | -21.82 | Peak | |
| 2 5631.600 | 8.95 | 32.76 | 51.50 | 46.02 | 68.20 | -22.18 | Peak | |
| 3 5780.800 | 9.03 | 33.41 | 87.83 | 83.24 | 135.00 | -51.76 | Peak | |
| 4 5939.600 | 9.11 | 33.55 | 52.35 | 47.74 | 68.20 | -20.46 | Peak | |
| 5 5958.000 | 9.12 | 33.52 | 52.68 | 48.02 | 68.20 | -20.18 | Peak | |

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7.8 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E15.407 (g)
 Test Method: ANSI C63.10 (2013) Section 6.8

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 01 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

7.8.3 Test Setup Diagram

7.8.4 Measurement Procedure and Data

Please Refer to Appendix B for KSCR220600092202

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7.9 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 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 |
| 960-1000 | 500 | 3 |

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 55.4 % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 01 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 02 | 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

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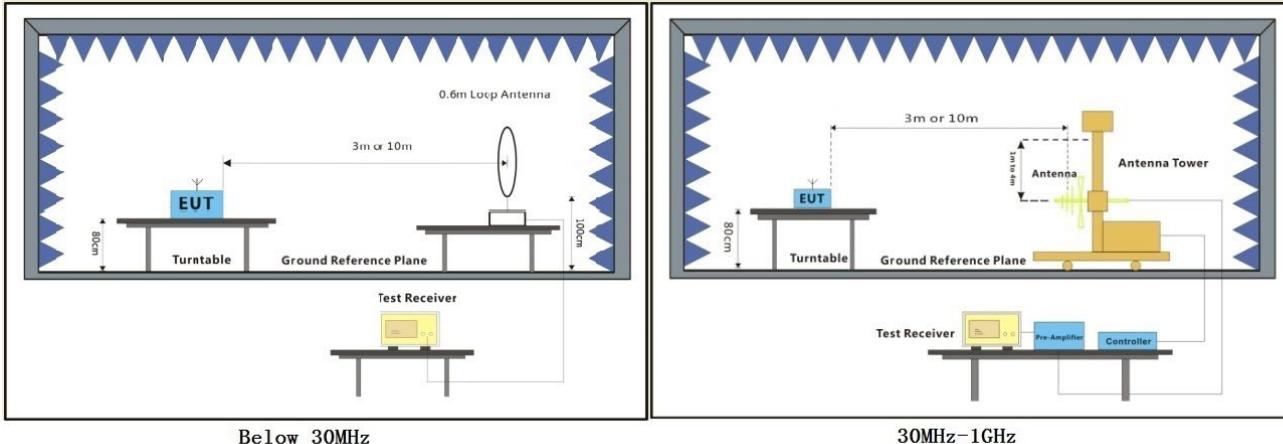
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7.9.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz

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EMC Laboratory

Inspection & Testing Services

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7.9.4 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. 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.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

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 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance 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. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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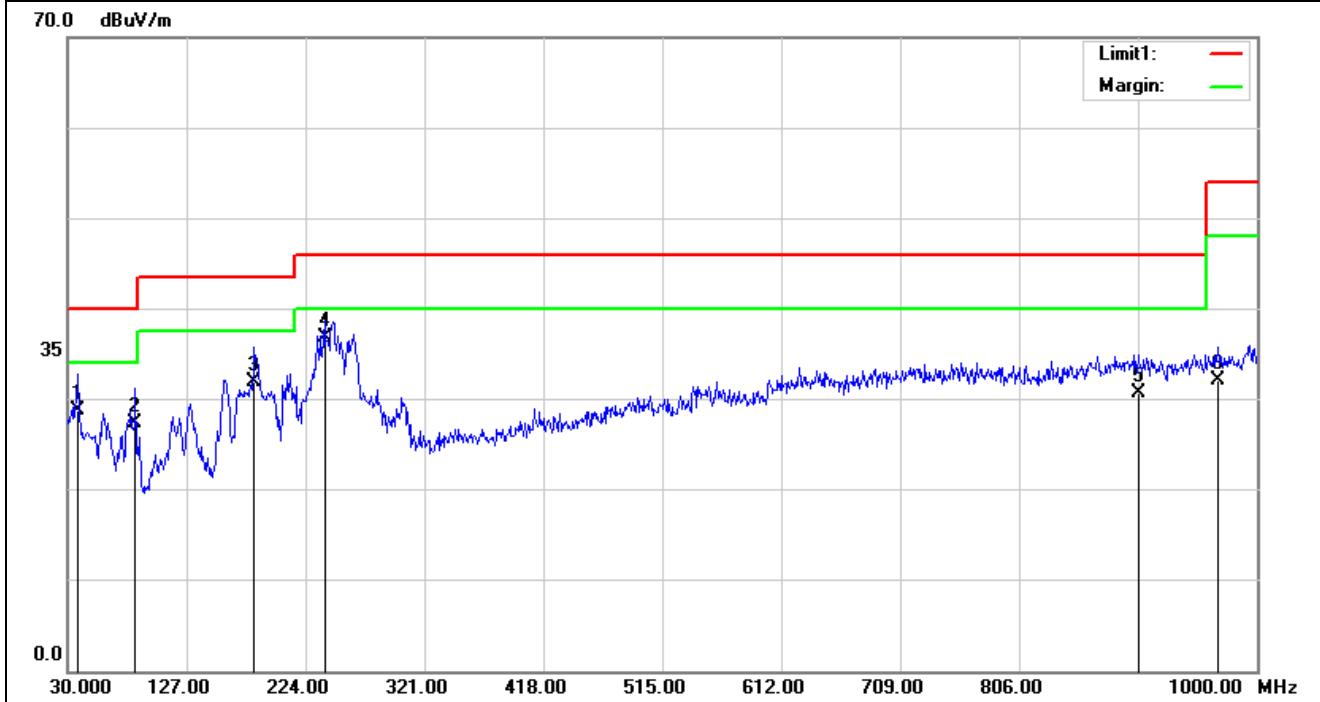
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn

中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

Test Mode: 01; Polarity: Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (deg.) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|----------------|------------------|--------|
| 1 | 38.7300 | 6.03 | 22.80 | 28.83 | 40.00 | -11.17 | 100 | 144 | QP |
| 2 | 85.2900 | 13.19 | 14.16 | 27.35 | 40.00 | -12.65 | 100 | 99 | QP |
| 3 | 182.2900 | 15.48 | 16.53 | 32.01 | 43.50 | -11.49 | 100 | 147 | QP |
| 4 | 239.5200 | 18.16 | 18.66 | 36.82 | 46.00 | -9.18 | 100 | 13 | QP |
| 5 | 903.0000 | 28.31 | 2.46 | 30.77 | 46.00 | -15.23 | 100 | 126 | QP |
| 6 | 967.9900 | 29.50 | 2.53 | 32.03 | 54.00 | -21.97 | 100 | 30 | QP |

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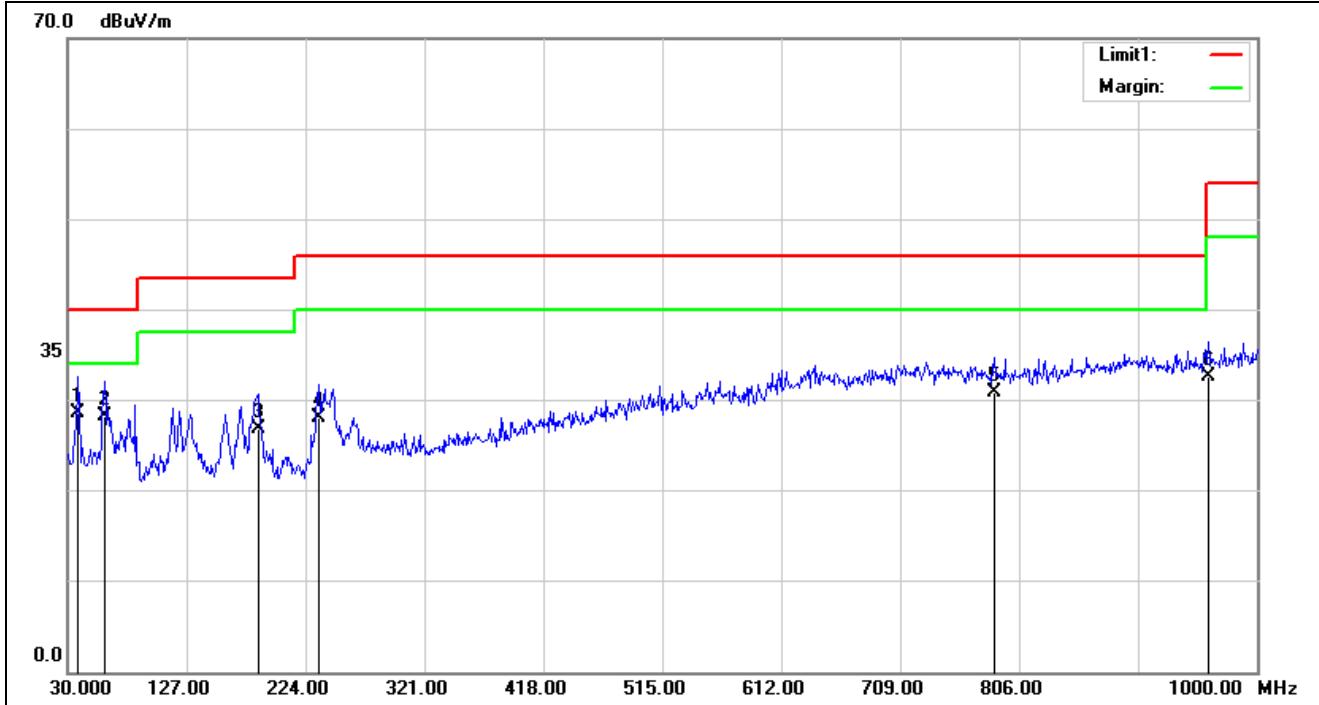
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

Test Mode: 01; Polarity: Vertical



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Height | Degree | Remark |
|-----|-----------|---------|--------------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | (deg.) | |
| 1 | 38.7300 | 5.89 | 22.80 | 28.69 | 40.00 | -11.31 | 100 | 56 | QP |
| 2 | 60.0700 | 13.41 | 14.92 | 28.33 | 40.00 | -11.67 | 100 | 351 | QP |
| 3 | 185.2000 | 10.44 | 16.42 | 26.86 | 43.50 | -16.64 | 100 | 46 | QP |
| 4 | 234.6700 | 10.07 | 18.04 | 28.11 | 46.00 | -17.89 | 100 | 143 | QP |
| 5 | 785.6300 | 28.60 | 2.28 | 30.88 | 46.00 | -15.12 | 100 | 75 | QP |
| 6 | 960.2300 | 30.14 | 2.57 | 32.71 | 54.00 | -21.29 | 100 | 272 | QP |

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2206000922AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2206000922AT

- End of the Report -



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