

FCC TEST REPORT

FOR

Radiocontrolli SRL

Transceiver Module

Test Model: RC-SPIRIT2-915

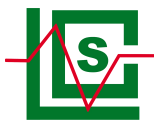
Additional Model No.: RC-SPIRIT2-915-NA

Prepared for : Radiocontrolli SRL
Address : Via Carditello 10 P.co Nuovo Villaggio 6, San Tammaro -CE, Italy

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Web : www.LCS-cert.com
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : March 07, 2023
Number of tested samples : 2
Sample No. : A030623002-1, A030623002-2
Serial number : Prototype
Date of Test : March 07, 2023 ~ March 29, 2023
Date of Report : March 30, 2023





| | |
|--|---|
| FCC TEST REPORT | |
| FCC CFR 47 PART 15 C (15.249) | |
| Report Reference No. | : LCSA030623002EA |
| Date of Issue | : March 30, 2023 |
| Testing Laboratory Name | : Shenzhen LCS Compliance Testing Laboratory Ltd.. |
| Address | : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China |
| Testing Location/ Procedure | : Full application of Harmonised standards <input checked="" type="checkbox"/> : Partial application of Harmonised standards <input type="checkbox"/> : Other standard testing method <input type="checkbox"/> |
| Applicant's Name | : Radiocontrolli SRL |
| Address | : Via Carditello 10 P.co Nuovo Villaggio 6, San Tammaro -CE, Italy |
| Test Specification | |
| Standard | : FCC CFR 47 PART 15 C(15.249) / ANSI C63.10: 2013 |
| Test Report Form No. | : LCSEMC-1.0 |
| TRF Originator | : Shenzhen LCS Compliance Testing Laboratory Ltd. |
| Master TRF | : Dated 2011-03 |
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| Test Item Description | : Transceiver Module |
| Trade Mark | : Radiocontrolli |
| Test Model | : RC-SPIRIT2-915 |
| Ratings | : DC 3.3V |
| Result | : Positive |

Compiled by:

Diamond Lu/ Administrator

Supervised by:

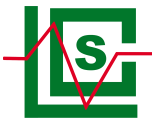
Cary Luo/ Technique principal

Approved by:

Gavin Liang/ Manager



Shenzhen LCS Compliance Testing Laboratory Ltd.
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 Scan code to check authenticity



FCC -- TEST REPORT

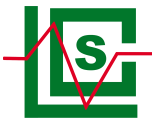
| | |
|--|--|
| Test Report No. : LCSA030623002EA | <u>March 30, 2023</u> Date of issue |
|--|--|

| | |
|--------------------------|--|
| Test Model..... | : RC-SPIRIT2-915 |
| EUT..... | : Transceiver Module |
| Applicant..... | : Radiocontrolli SRL |
| Address..... | : Via Carditello 10 P.co Nuovo Villaggio 6, San Tammaro -CE, Italy |
| Telephone..... | : / |
| Fax..... | : / |
| Manufacturer..... | : Beijing Jia An Electronics Technology Co., Ltd. |
| Address..... | : Rm1002, FL.10, B China Railway Bldg, No.28 Pingguoyuan Rd, Shijingshan Dist., Beijing, 100041, China |
| Telephone..... | : / |
| Fax..... | : / |
| Factory..... | : Beijing Jia An Electronics Technology Co., Ltd. |
| Address..... | : Rm1002, FL.10, B China Railway Bldg, No.28 Pingguoyuan Rd, Shijingshan Dist., Beijing, 100041, China |
| Telephone..... | : / |
| Fax..... | : / |

| | |
|--------------------|-----------------|
| Test Result | Positive |
|--------------------|-----------------|

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





Revision History

| Report Version | Issue Date | Revision Content | Revised By |
|----------------|----------------|------------------|------------|
| 000 | March 30, 2023 | Initial Issue | --- |
| | | | |
| | | | |



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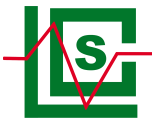
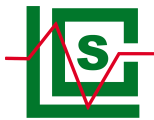


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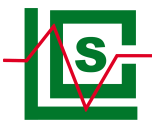


1. GENERAL INFORMATION

1.1 Description of Device (EUT)

| | |
|-----------------------|---|
| EUT | : Transceiver Module |
| Test Model | : RC-SPIRIT2-915 |
| Additional Model No.: | : RC-SPIRIT2-915-NA |
| Model Declaration | : PCB board, structure and internal of these model(s) are the same, So no additional models were tested |
| Power Supply | : DC 3.3V |
| Hardware Version | : / |
| Software Version | : / |
| RFID | : |
| Frequency Range | : 905MHz-925MHz |
| Channel Number | : 41 channels |
| Channel Spacing | : 500KHz |
| Modulation Type | : 2-FSK, 4-FSK, 2-GFSK1, 2-GFSK05, 4-GFSK1, 4-GFSK05, OOK, ASK |
| Antenna Description | : External antenna ANT-916-CW-QW by LINX, 1.8dBi(Max.) |





1.2. Support Equipment List

| Manufacturer | Description | Model | Serial Number | Certificate |
|--------------|-------------|-------|---------------|-------------|
| --- | --- | --- | --- | --- |

1.3. External I/O

| I/O Port Description | Quantity | Cable |
|----------------------|----------|-------|
| --- | --- | --- |

1.4. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6. Measurement Uncertainty

| Test Item | Frequency Range | Uncertainty | Note |
|------------------------|-----------------|-------------|------|
| Radiation Uncertainty | 9KHz~30MHz | ±3.10dB | (1) |
| | 30MHz~200MHz | ±2.96dB | (1) |
| | 200MHz~1000MHz | ±3.10dB | (1) |
| | 1GHz~26.5GHz | ±3.80dB | (1) |
| | 26.5GHz~40GHz | ±3.90dB | (1) |
| Conduction Uncertainty | 150kHz~30MHz | ±1.63dB | (1) |
| Power disturbance | 30MHz~300MHz | ±1.60dB | (1) |

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.





1.7. Description of Test Modes

The system was configured for testing in engineering mode, which was provided by manufacturer.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

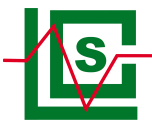
Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was determined to be TX (4-GFSK1 Middle Channel).

Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/60Hz, recorded worst case.

The device employs 41 channels:

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 00 | 905.0 | 21 | 915.5 |
| 01 | 905.5 | 22 | 916.0 |
| 02 | 906.0 | 23 | 916.5 |
| 03 | 906.5 | 24 | 917.0 |
| 04 | 907.0 | 25 | 917.5 |
| 05 | 907.5 | 26 | 918.0 |
| 06 | 908.0 | 27 | 918.5 |
| 07 | 908.5 | 28 | 919.0 |
| 08 | 909.0 | 29 | 919.5 |
| 09 | 909.5 | 3 | 920.0 |
| 10 | 910.0 | 31 | 920.5 |
| 11 | 910.5 | 32 | 921.0 |
| 12 | 911.0 | 33 | 921.5 |
| 13 | 911.5 | 34 | 922.0 |
| 14 | 912.0 | 35 | 922.5 |
| 15 | 912.5 | 36 | 923.0 |
| 16 | 913.0 | 37 | 923.5 |
| 17 | 913.5 | 38 | 924.0 |
| 18 | 914.0 | 39 | 924.5 |
| 19 | 915.0 | 40 | 925.0 |
| 20 | 915.5 | --- | --- |





Test frequency and Modulation

| Channel | Modulation | Frequency(MHz) | Power Level Setting | data rate |
|---------|------------|----------------|---------------------|-----------|
| 00(LCH) | 2-FSK | 905.0 | 8 | Default |
| 19(MCH) | 2-FSK | 915.0 | 8 | Default |
| 40(HCH) | 2-FSK | 925.0 | 8 | Default |

| Channel | Modulation | Frequency(MHz) | Power Level Setting | data rate |
|---------|------------|----------------|---------------------|-----------|
| 00(LCH) | 4-FSK | 905.0 | 8 | Default |
| 19(MCH) | 4-FSK | 915.0 | 8 | Default |
| 40(HCH) | 4-FSK | 925.0 | 8 | Default |

| Channel | Modulation | Frequency(MHz) | Power Level Setting | data rate |
|---------|------------|----------------|---------------------|-----------|
| 00(LCH) | 2-GFSK1 | 905.0 | 8 | Default |
| 19(MCH) | 2-GFSK1 | 915.0 | 8 | Default |
| 40(HCH) | 2-GFSK1 | 925.0 | 8 | Default |

| Channel | Modulation | Frequency(MHz) | Power Level Setting | data rate |
|---------|------------|----------------|---------------------|-----------|
| 00(LCH) | 2-GFSK05 | 905.0 | 8 | Default |
| 19(MCH) | 2-GFSK05 | 915.0 | 8 | Default |
| 40(HCH) | 2-GFSK05 | 925.0 | 8 | Default |

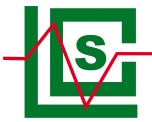
| Channel | Modulation | Frequency(MHz) | Power Level Setting | data rate |
|---------|------------|----------------|---------------------|-----------|
| 00(LCH) | 4-GFSK1 | 905.0 | 8 | Default |
| 19(MCH) | 4-GFSK1 | 915.0 | 8 | Default |
| 40(HCH) | 4-GFSK1 | 925.0 | 8 | Default |

| Channel | Modulation | Frequency(MHz) | Power Level Setting | data rate |
|---------|------------|----------------|---------------------|-----------|
| 00(LCH) | 4-GFSK05 | 905.0 | 8 | Default |
| 19(MCH) | 4-GFSK05 | 915.0 | 8 | Default |
| 40(HCH) | 4-GFSK05 | 925.0 | 8 | Default |

| Channel | Modulation | Frequency(MHz) | Power Level Setting | data rate |
|---------|------------|----------------|---------------------|-----------|
| 00(LCH) | OOK | 905.0 | 8 | Default |
| 19(MCH) | OOK | 915.0 | 8 | Default |
| 40(HCH) | OOK | 925.0 | 8 | Default |

| Channel | Modulation | Frequency(MHz) | Power Level Setting | data rate |
|---------|------------|----------------|---------------------|-----------|
| 00(LCH) | ASK | 905.0 | 8 | Default |
| 19(MCH) | ASK | 915.0 | 8 | Default |
| 40(HCH) | ASK | 925.0 | 8 | Default |





2. TEST METHODOLOGY

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

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd.

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.249 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz and 1.5 m above ground plane above 1GHz. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013.

2.4. Test Sample

The application provides 2 samples to meet requirement;

| Sample Number | Description |
|------------------------|---------------------------------------|
| Sample 1(A030623002-1) | Engineer sample – continuous transmit |
| Sample 2(A030623002-2) | Normal sample – Intermittent transmit |





3. CONNECTION DIAGRAM OF TEST SYSTEM

3.1. Justification

The system was configured for testing in a continuous transmit condition. Continuous transmitting was pre-programmed. It'll keep transmitting with modulated signal at the lowest channel by installing the batter. When press the "up" button, it'll move to the next channel. Repeat press "up" button, it'll transmitting at each of the channel used.

3.2. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software(S2-LP DK-Setup-1.2.1.exe) provided by applicant.

3.3. Special Accessories

N/A

3.4. Block Diagram/Schematics

Please refer to the related document

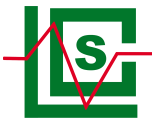
3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.



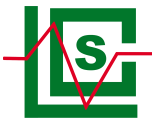


4. SUMMARY OF TEST RESULTS

| Applied Standard: FCC Part 15 Subpart C §15.249 | | |
|---|--------------------------------|-----------|
| FCC Rules | Description Of Test | Result |
| §15.203 | Antenna Requirement | Compliant |
| §15.207(a) | Power Line Conducted Emissions | Compliant |
| §15.205(a), §15.209(a), §15.249(a), §15.249(c) | Radiated Emissions Measurement | Compliant |
| §15.249 (d) | Band Edges Measurement | Compliant |
| §2.1049 | 99% and 20 dB Bandwidth | Compliant |



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5. ANTENNA REQUIREMENT

5.1. Standard Applicable

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

5.2. Antenna Connected Construction

The EUT use External Antenna(UFL Antenna) and maximum antenna gain is 1.8dBi, antenna cannot replacement, meets FCC Part §15.203 antenna requirement. Please see EUT photo for details.

5.3. Results

Compliance



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6. POWER LINE CONDUCTED EMISSIONS

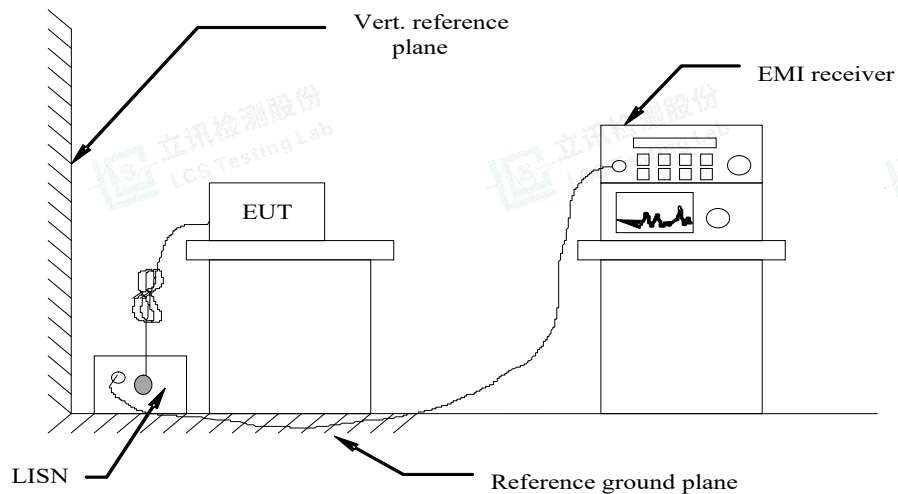
6.1. Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

| Frequency Range (MHz) | Limits (dBµV) | |
|-----------------------|---------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

* Decreasing linearly with the logarithm of the frequency

6.2. Block Diagram of Test Setup



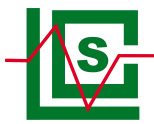
6.3. Test Results

PASS.

The test data please refer to following page.

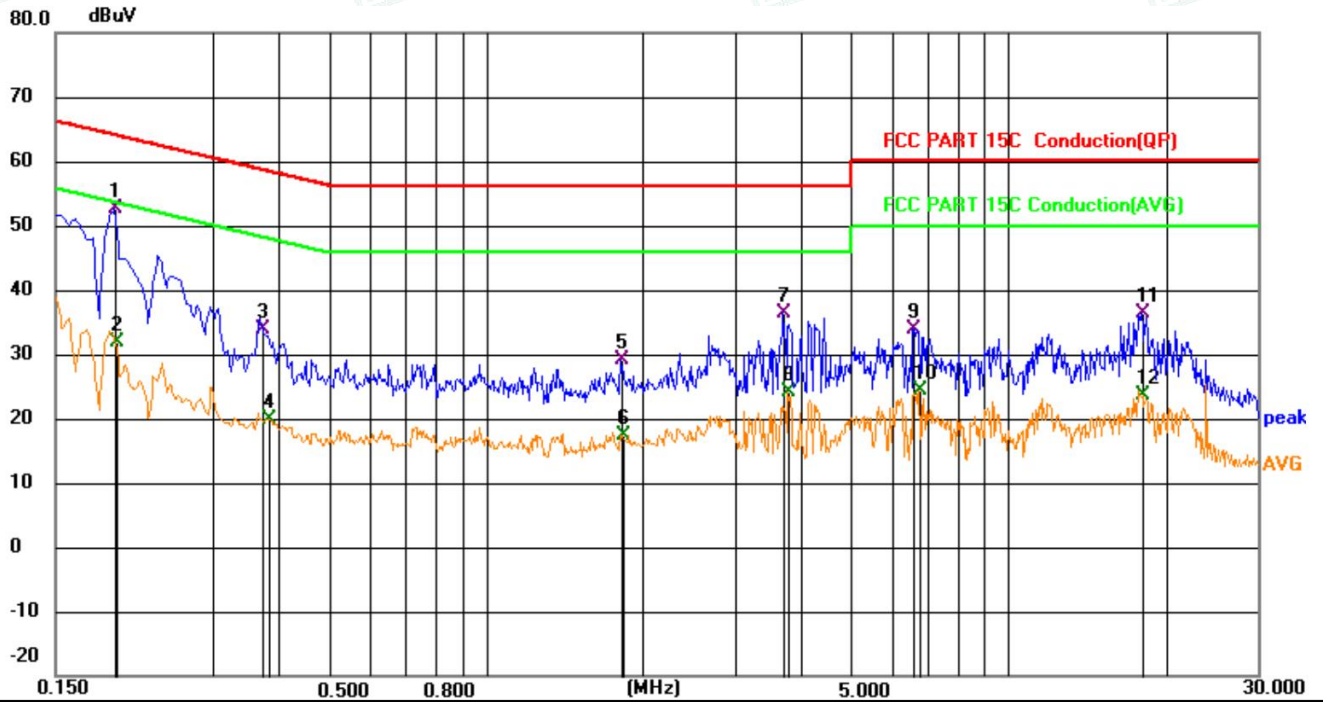
| | | | |
|---------------|-----------|----------|-------|
| Temperature | 24.3°C | Humidity | 53.5% |
| Test Engineer | Mening Su | | |





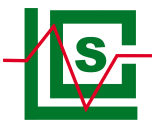
AC Conducted Emission of Adapter @ AC 120V/60Hz @ GFSK (Low Channel) (worst case)

Line



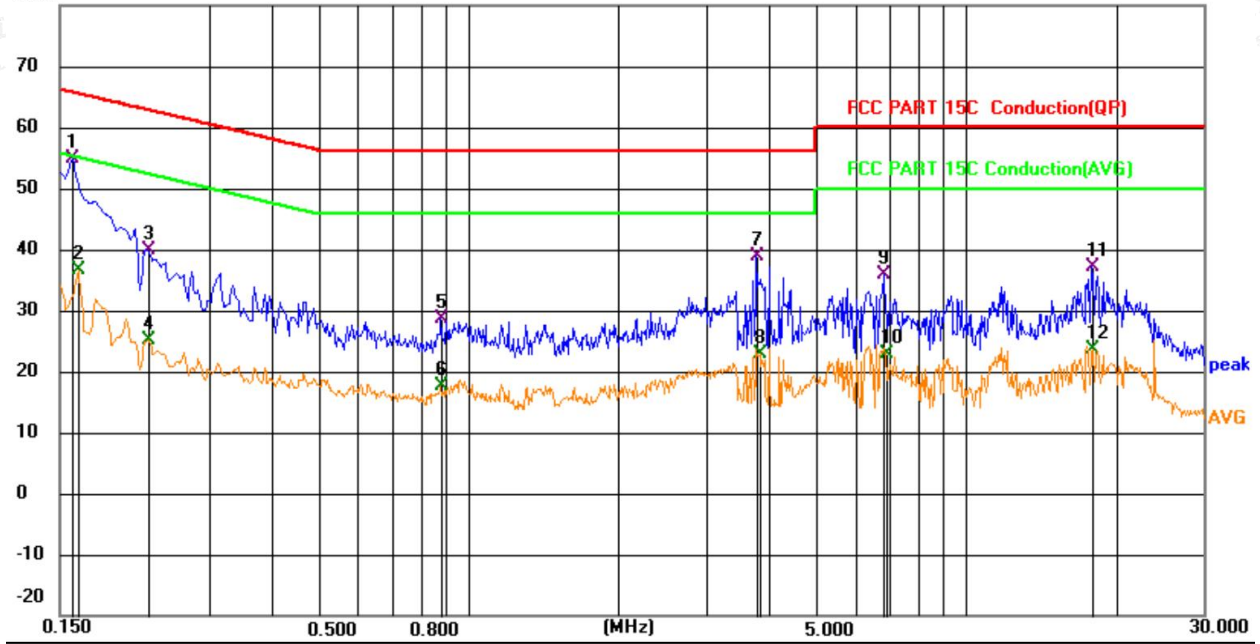
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1 | * | 0.1945 | 33.05 | 19.63 | 52.68 | 63.84 | -11.16 | QP | |
| 2 | | 0.1955 | 12.29 | 19.63 | 31.92 | 53.80 | -21.88 | AVG | |
| 3 | | 0.3731 | 14.18 | 19.63 | 33.81 | 58.43 | -24.62 | QP | |
| 4 | | 0.3832 | 0.31 | 19.63 | 19.94 | 48.21 | -28.27 | AVG | |
| 5 | | 1.8096 | 9.52 | 19.67 | 29.19 | 56.00 | -26.81 | QP | |
| 6 | | 1.8192 | -2.19 | 19.67 | 17.48 | 46.00 | -28.52 | AVG | |
| 7 | | 3.7001 | 16.65 | 19.70 | 36.35 | 56.00 | -19.65 | QP | |
| 8 | | 3.7794 | 4.42 | 19.70 | 24.12 | 46.00 | -21.88 | AVG | |
| 9 | | 6.5921 | 14.27 | 19.72 | 33.99 | 60.00 | -26.01 | QP | |
| 10 | | 6.7333 | 4.58 | 19.72 | 24.30 | 50.00 | -25.70 | AVG | |
| 11 | | 17.9441 | 16.21 | 20.15 | 36.36 | 60.00 | -23.64 | QP | |
| 12 | | 18.0393 | 3.39 | 20.16 | 23.55 | 50.00 | -26.45 | AVG | |





Neutral

80.0 dBuV



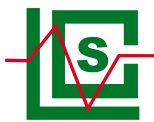
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1 | * | 0.1590 | 35.37 | 19.63 | 55.00 | 65.52 | -10.52 | QP | |
| 2 | | 0.1636 | 17.02 | 19.63 | 36.65 | 55.28 | -18.63 | AVG | |
| 3 | | 0.2266 | 20.34 | 19.63 | 39.97 | 62.57 | -22.60 | QP | |
| 4 | | 0.2266 | 5.61 | 19.63 | 25.24 | 52.57 | -27.33 | AVG | |
| 5 | | 0.8791 | 8.98 | 19.64 | 28.62 | 56.00 | -27.38 | QP | |
| 6 | | 0.8791 | -1.94 | 19.64 | 17.70 | 46.00 | -28.30 | AVG | |
| 7 | | 3.7906 | 19.12 | 19.70 | 38.82 | 56.00 | -17.18 | QP | |
| 8 | | 3.8446 | 3.07 | 19.70 | 22.77 | 46.00 | -23.23 | AVG | |
| 9 | | 6.8371 | 16.06 | 19.72 | 35.78 | 60.00 | -24.22 | QP | |
| 10 | | 6.8866 | 3.17 | 19.72 | 22.89 | 50.00 | -27.11 | AVG | |
| 11 | | 17.9071 | 17.03 | 20.14 | 37.17 | 60.00 | -22.83 | QP | |
| 12 | | 17.9476 | 3.44 | 20.15 | 23.59 | 50.00 | -26.41 | AVG | |

***Note: Pre-scan all modes and recorded the worst case results in this report (4-GFSK1 Middle Channel).

Measurement= Reading + Correct Factor, Margin = Measurement – Limit.

Correct Factor=Lisn Factor+Cable Factor





7. RADIATED EMISSION MEASUREMENT

7.1. Standard Applicable

According to FCC § 15.249: Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) and 15.249 limit in the table below has to be followed.

| Fundamental Frequency | Field Strength of fundamental (millivolts/meter) | Field Strength of harmonics (microvolts/meter) |
|-----------------------|--|--|
| 902-928MHz | 50 | 500 |
| 2400-2483.5MHz | 50 | 500 |
| 5725-5875MHz | 50 | 500 |
| 24.0-24.25GHz | 250 | 2500 |

| Frequencies (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 |

According to RSS-210 B.10:

The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively.

The field strength limits shall be measured using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using an International Special Committee on Radio Interference (CISPR) quasi-peak detector.

Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

7.2. Instruments Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver.

| Spectrum Parameter | Setting |
|---|---|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10 th carrier harmonic |
| RB / VB (Emission in restricted band) | 1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average |
| RB / VB (Emission in non-restricted band) | 1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average |

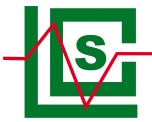


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Scan code to check authenticity



| Receiver Parameter | Setting |
|------------------------|---|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG |
| Start ~ Stop Frequency | 150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB/VB 120kHz/1MHz for QP |
| Start ~ Stop Frequency | 1GHz~10GHz / RB/VB 1MHz/3MHz for PK 1MHz/10Hz for AV |

7.3. Test Procedure

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

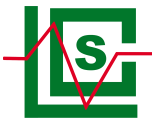
Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 1.0 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.





2) Sequence of testing 30 MHz to 1 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 3 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

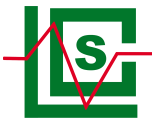


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Scan code to check authenticity



3) Sequence of testing 1 GHz to 18 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

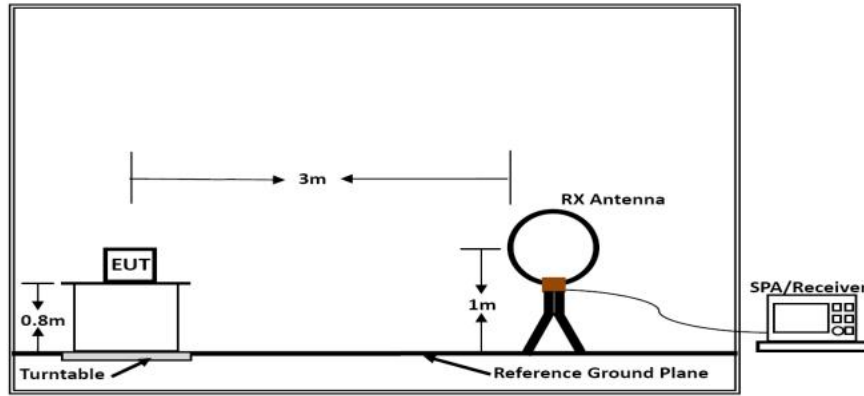
- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 2.5 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

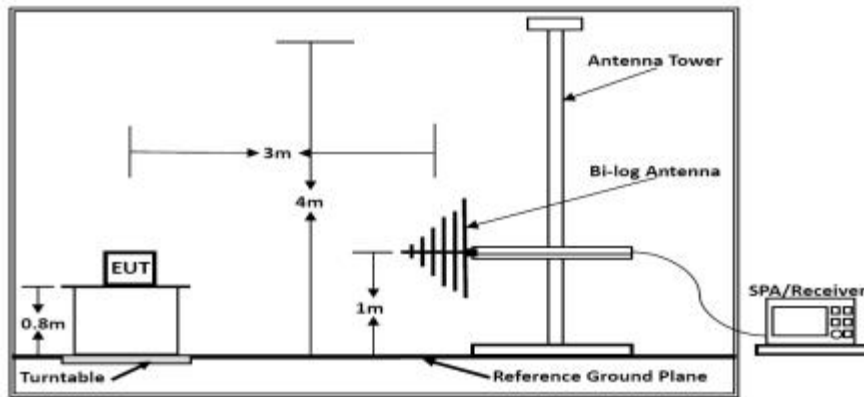
- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.



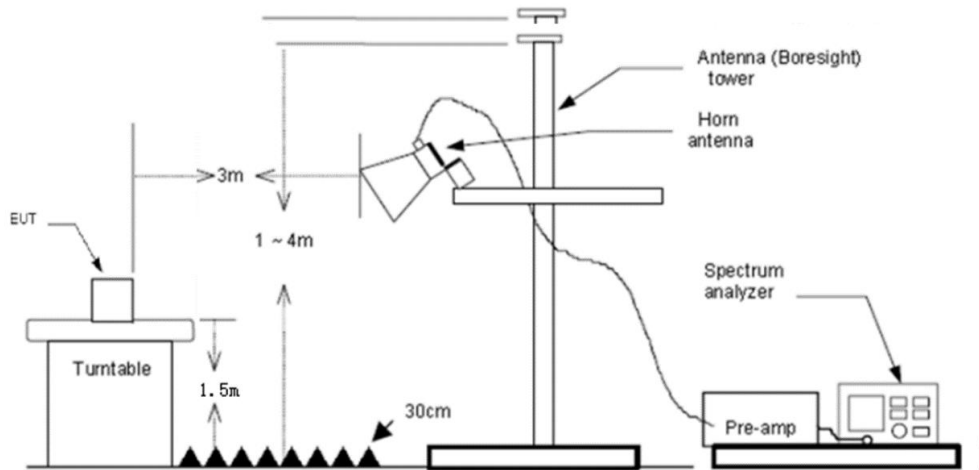
7.4. Block Diagram of Test Setup



Below 30MHz



Below 1GHz

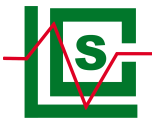


Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.

7.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.





7.6. Test Results of Radiated Emissions (9 KHz~30 MHz)

| | | | |
|---------------|-----------|----------|-------|
| Temperature | 23.8°C | Humidity | 52.1% |
| Test Engineer | Mening Su | | |

| Freq. (MHz) | Level (dBuV) | Over Limit (dB) | Over Limit (dBuV) | Remark |
|-------------|--------------|-----------------|-------------------|----------|
| - | - | - | - | See Note |

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log(\text{specific distance} / \text{test distance})$ (dB);

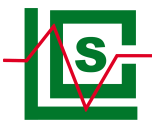
Limit line = specific limits (dBuV) + distance extrapolation factor.

7.7. Test Results of Radiated Emissions (30 MHz – 1000 MHz)

PASS

The test data please refer to following page.



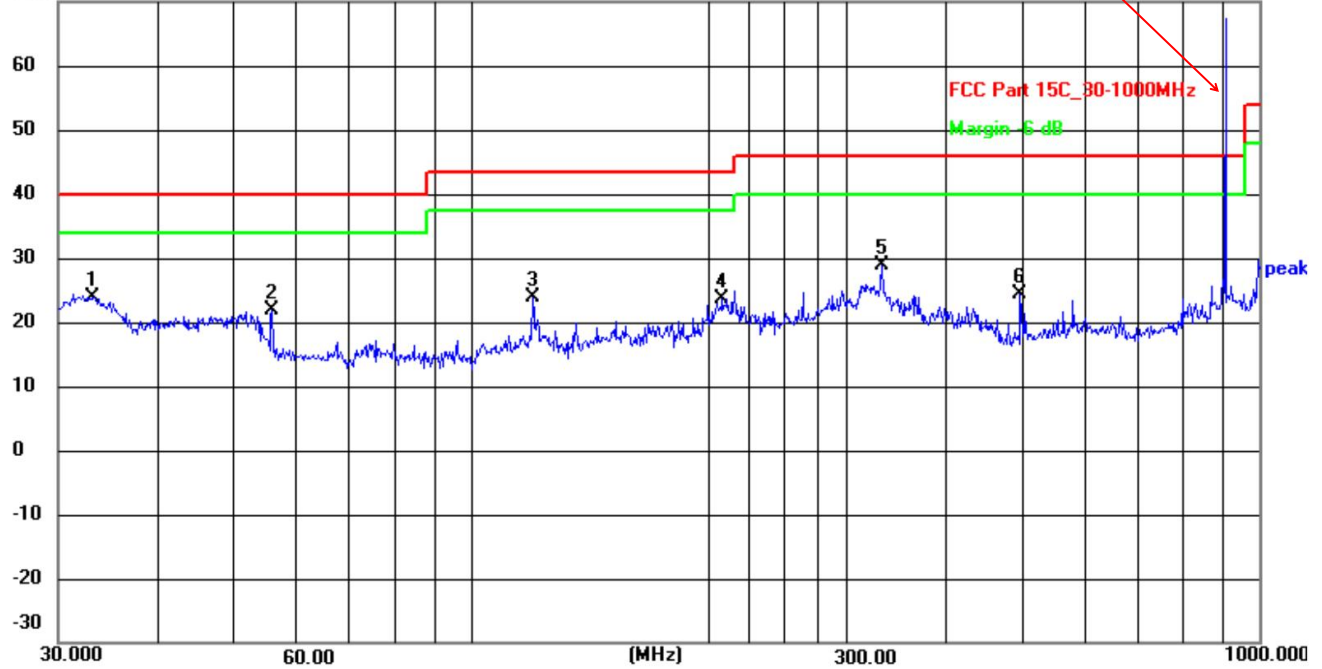


| | | | |
|---------------|-----------|------------|----------|
| Temperature | 23.8°C | Humidity | 52.1% |
| Test Engineer | Mening Su | Modulation | 2-GFSK05 |

Channel 0 / 905.0 MHz

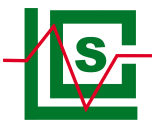
Vertical

70.0 dBuV/m



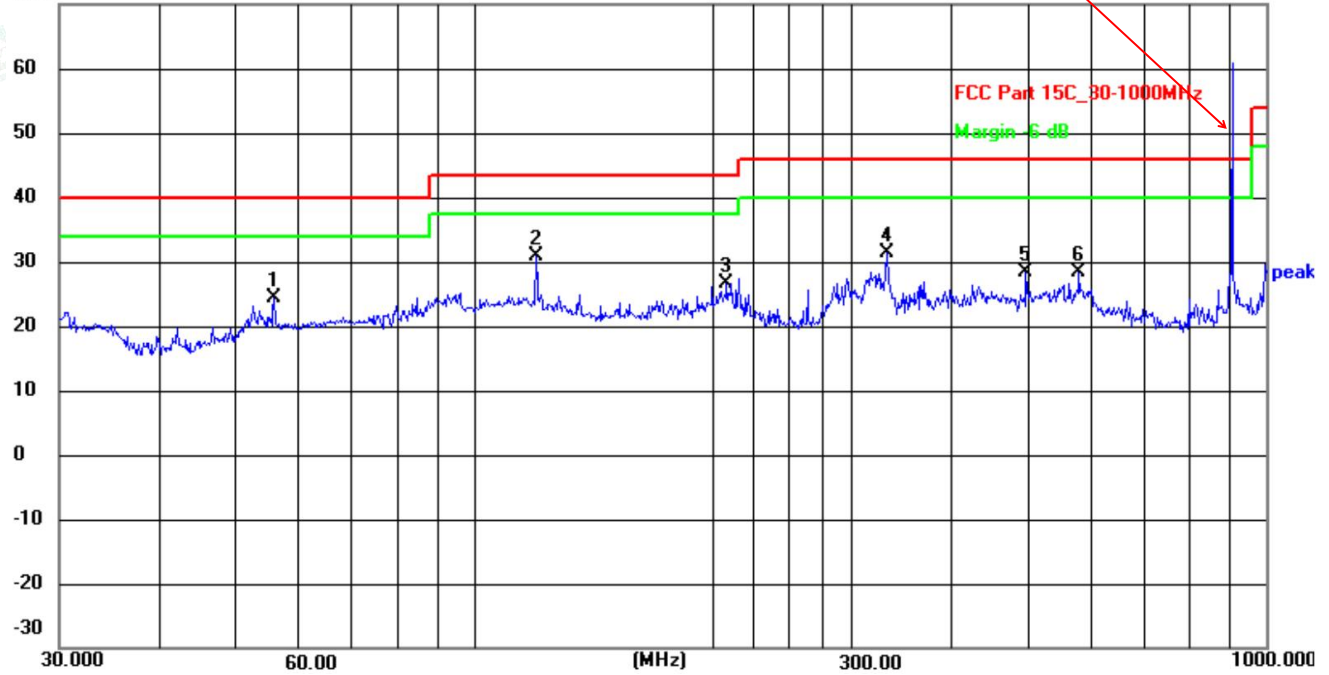
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 | 33.2111 | 41.93 | -18.02 | 23.91 | 40.00 | -16.09 |
| 2 | 56.0007 | 39.97 | -18.13 | 21.84 | 40.00 | -18.16 |
| 3 | 119.8555 | 43.84 | -19.93 | 23.91 | 43.50 | -19.59 |
| 4 | 208.5800 | 40.91 | -17.16 | 23.75 | 43.50 | -19.75 |
| 5 | 332.5187 | 43.36 | -14.40 | 28.96 | 46.00 | -17.04 |
| 6 | 497.6764 | 37.70 | -13.28 | 24.42 | 46.00 | -21.58 |





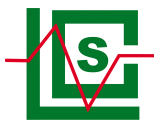
Horizontal
70.0 dBuV/m

Fundamental frequency



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 | 56.0007 | 42.47 | -18.13 | 24.34 | 40.00 | -15.66 |
| 2 | 119.8555 | 50.84 | -19.93 | 30.91 | 43.50 | -12.59 |
| 3 | 208.5800 | 43.91 | -17.16 | 26.75 | 43.50 | -16.75 |
| 4 | 332.5187 | 45.86 | -14.40 | 31.46 | 46.00 | -14.54 |
| 5 | 497.6764 | 41.70 | -13.28 | 28.42 | 46.00 | -17.58 |
| 6 | 580.7024 | 39.23 | -10.77 | 28.46 | 46.00 | -17.54 |

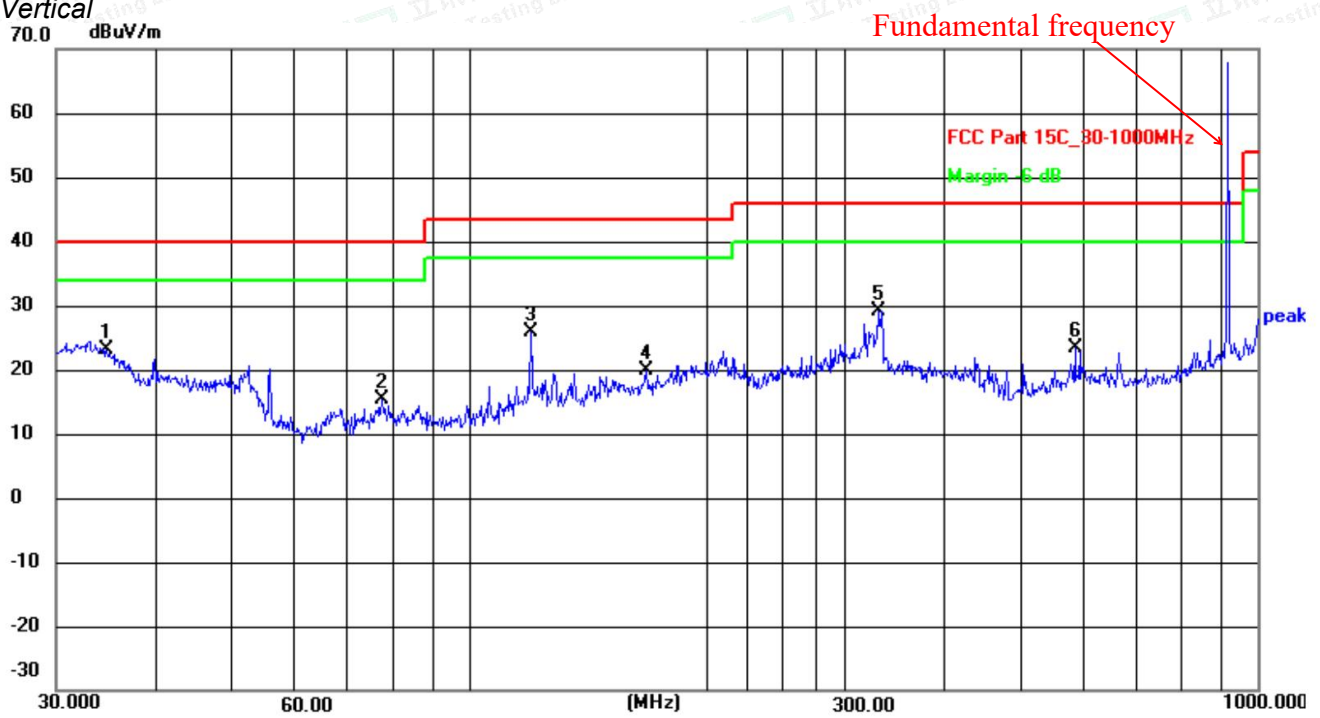




Channel 19 / 915.0 MHz

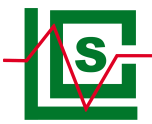
Vertical

70.0 dBuV/m



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 | 34.7601 | 41.01 | -17.83 | 23.18 | 40.00 | -16.82 |
| 2 | 77.5926 | 35.10 | -19.78 | 15.32 | 40.00 | -24.68 |
| 3 | 119.8555 | 45.79 | -19.93 | 25.86 | 43.50 | -17.64 |
| 4 | 167.8240 | 39.38 | -19.56 | 19.82 | 43.50 | -23.68 |
| 5 | 330.1947 | 43.38 | -14.33 | 29.05 | 46.00 | -16.95 |
| 6 | 586.8436 | 33.94 | -10.66 | 23.28 | 46.00 | -22.72 |

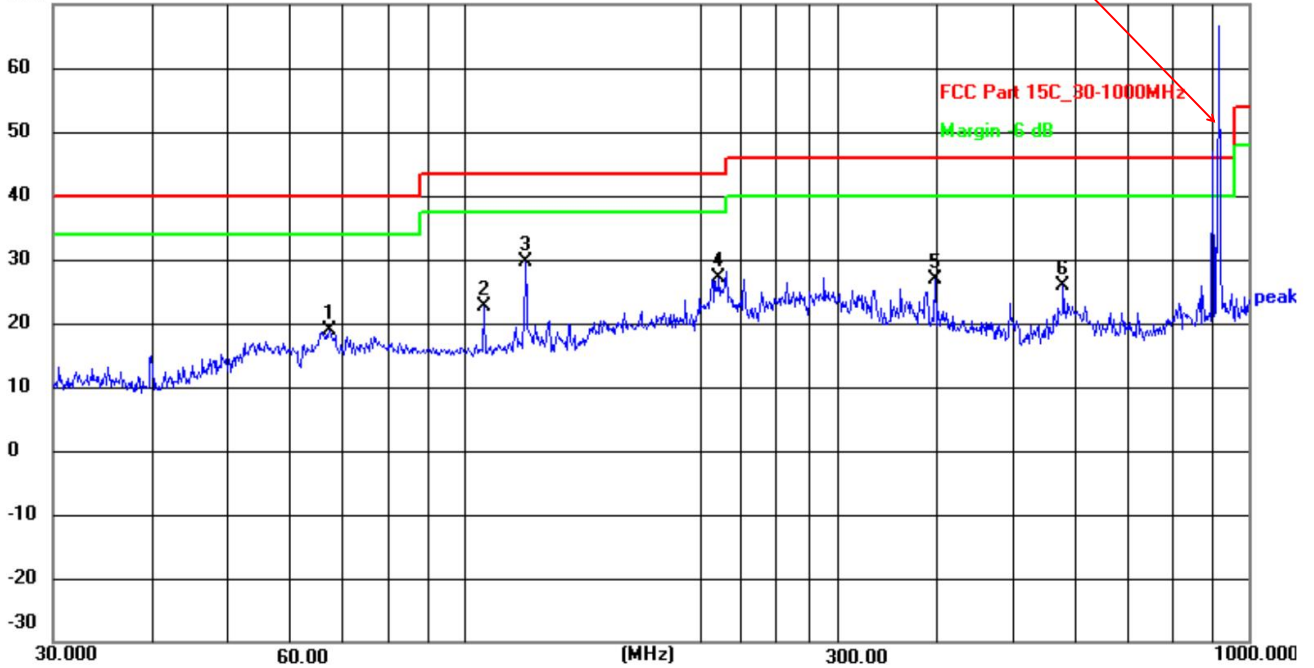




Horizontal

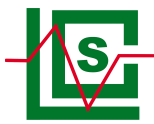
70.0 dBuV/m

Fundamental frequency



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 | 67.4381 | 38.23 | -19.32 | 18.91 | 40.00 | -21.09 |
| 2 | 106.0126 | 41.36 | -18.71 | 22.65 | 43.50 | -20.85 |
| 3 | 119.8555 | 49.50 | -19.93 | 29.57 | 43.50 | -13.93 |
| 4 | 211.5261 | 44.31 | -17.09 | 27.22 | 43.50 | -16.28 |
| 5 | 399.0300 | 41.40 | -14.43 | 26.97 | 46.00 | -19.03 |
| 6 | 580.7024 | 36.54 | -10.77 | 25.77 | 46.00 | -20.23 |

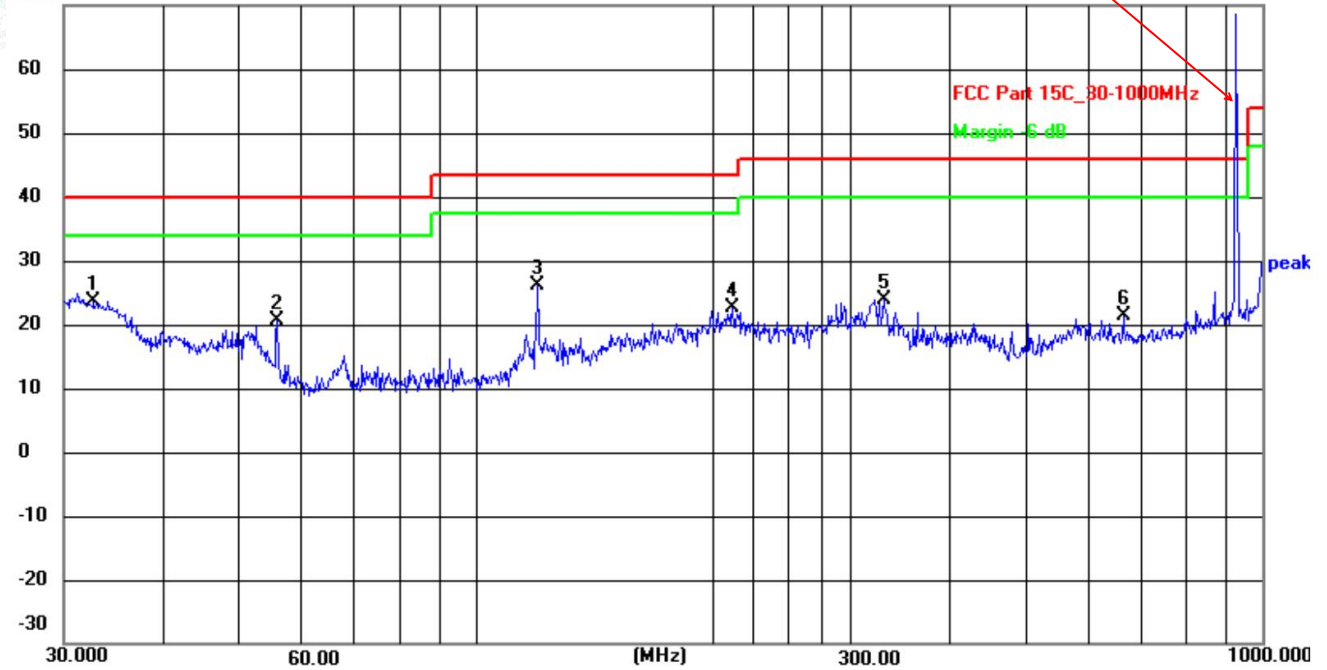




Channel 40 / 925.0 MHz

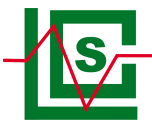
Vertical

70.0 dBuV/m



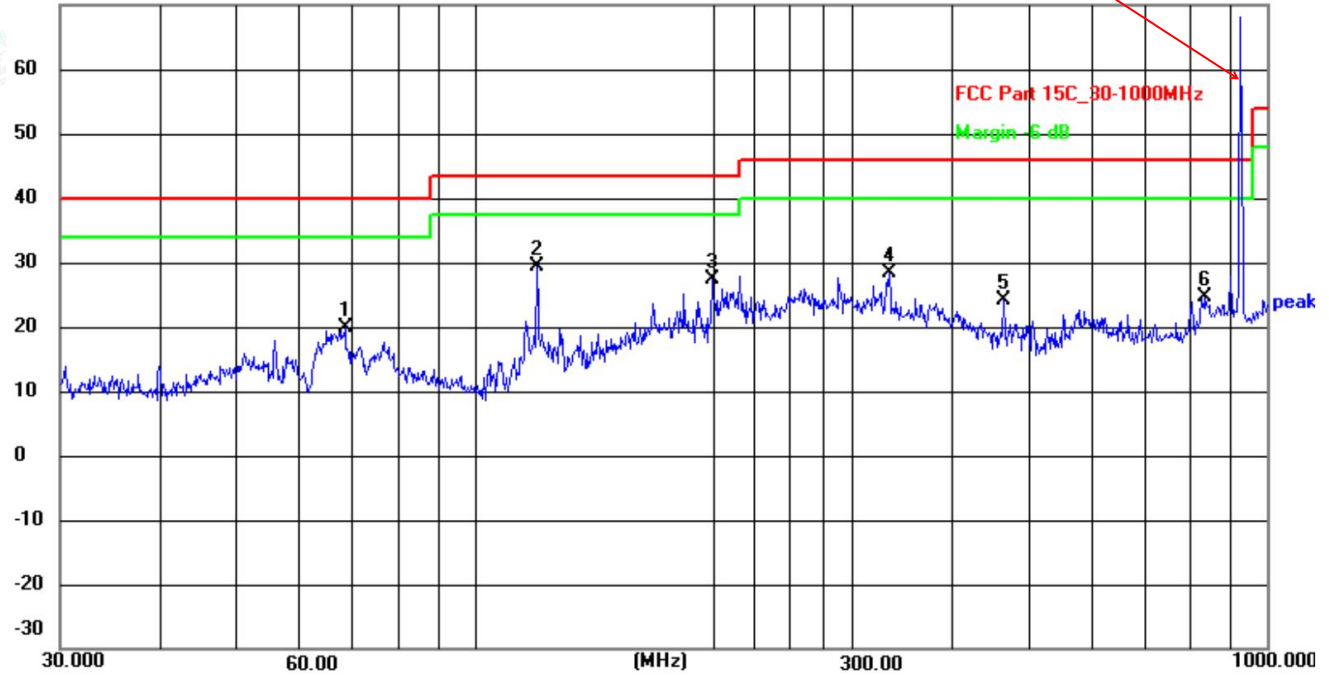
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 | 32.7486 | 41.66 | -18.09 | 23.57 | 40.00 | -16.43 |
| 2 | 56.0007 | 38.88 | -18.13 | 20.75 | 40.00 | -19.25 |
| 3 | 119.8555 | 46.07 | -19.93 | 26.14 | 43.50 | -17.36 |
| 4 | 212.2692 | 39.60 | -17.08 | 22.52 | 43.50 | -20.98 |
| 5 | 330.1947 | 38.28 | -14.33 | 23.95 | 46.00 | -22.05 |
| 6 | 665.8034 | 32.42 | -11.06 | 21.36 | 46.00 | -24.64 |





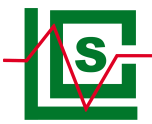
Horizontal
70.0 dBuV/m

Fundamental frequency



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 | 68.6310 | 39.18 | -19.38 | 19.80 | 40.00 | -20.20 |
| 2 | 119.8555 | 49.22 | -19.93 | 29.29 | 43.50 | -14.21 |
| 3 | 199.2855 | 44.75 | -17.38 | 27.37 | 43.50 | -16.13 |
| 4 | 333.6865 | 42.73 | -14.43 | 28.30 | 46.00 | -17.70 |
| 5 | 465.5994 | 38.38 | -14.35 | 24.03 | 46.00 | -21.97 |
| 6 | 836.2441 | 33.55 | -9.03 | 24.52 | 46.00 | -21.48 |



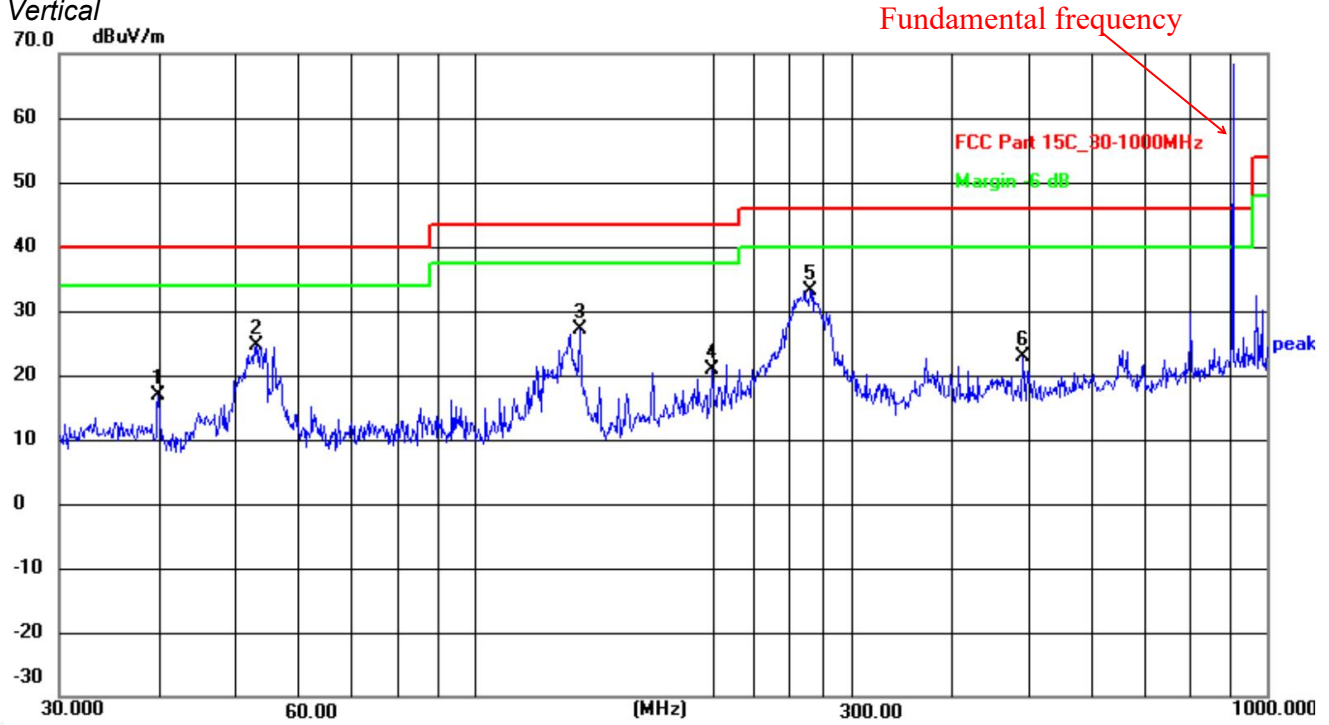


| | | | |
|---------------|-----------|------------|---------|
| Temperature | 23.8°C | Humidity | 52.1% |
| Test Engineer | Mening Su | Modulation | 4-GFSK1 |

Channel 0 /905.0 MHz

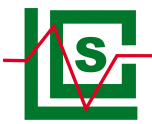
Vertical

70.0 dBuV/m



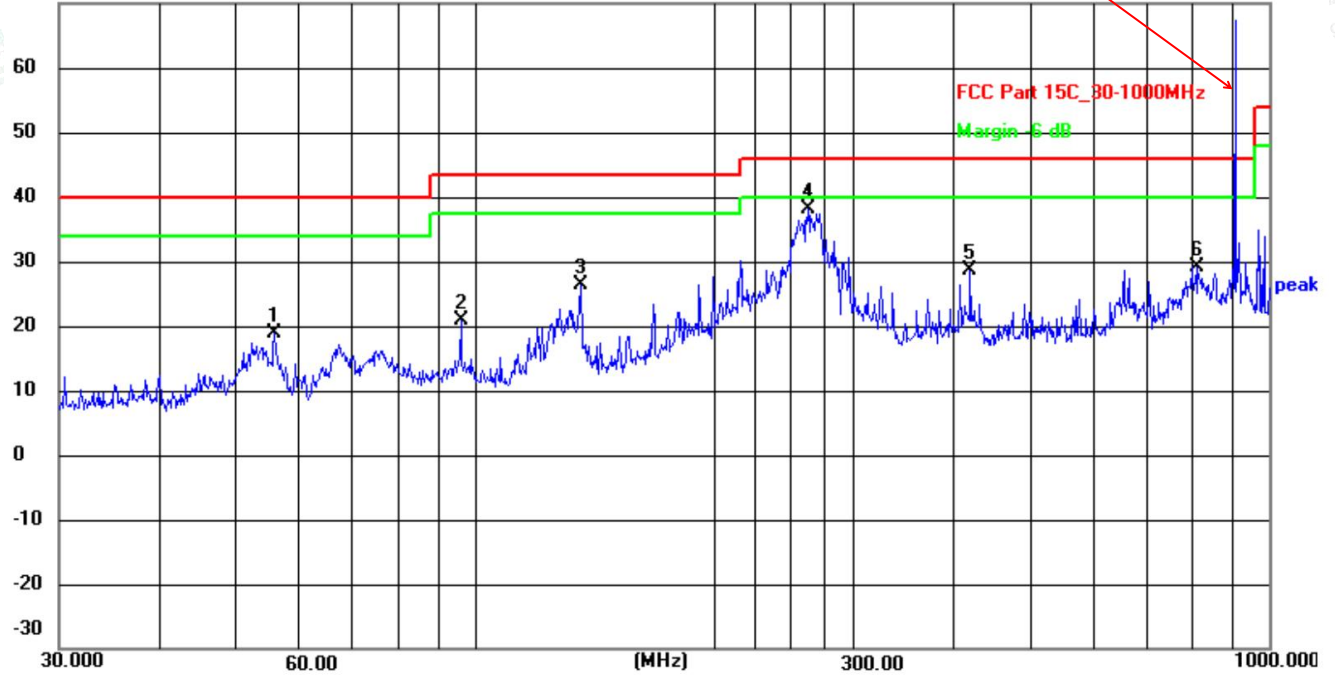
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 | 39.9941 | 34.32 | -17.54 | 16.78 | 40.00 | -23.22 |
| 2 | 53.1313 | 42.28 | -17.60 | 24.68 | 40.00 | -15.32 |
| 3 | 135.9821 | 47.88 | -20.76 | 27.12 | 43.50 | -16.38 |
| 4 | 199.9855 | 38.21 | -17.39 | 20.82 | 43.50 | -22.68 |
| 5 | 265.6757 | 48.68 | -15.45 | 33.23 | 46.00 | -12.77 |
| 6 | 492.4685 | 36.45 | -13.56 | 22.89 | 46.00 | -23.11 |





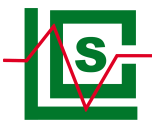
Horizontal
70.0 dBuV/m

Fundamental frequency



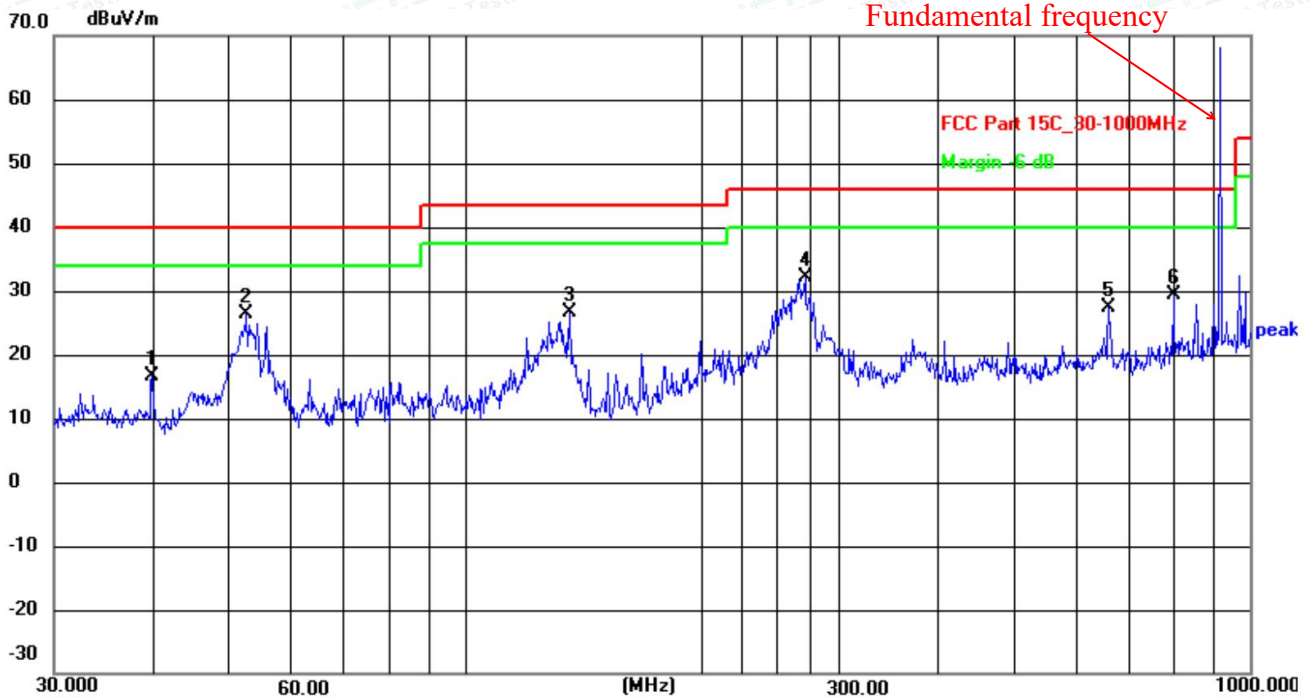
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 | 56.0007 | 37.06 | -18.13 | 18.93 | 40.00 | -21.07 |
| 2 | 96.0985 | 39.22 | -18.45 | 20.77 | 43.50 | -22.73 |
| 3 | 135.9821 | 47.06 | -20.76 | 26.30 | 43.50 | -17.20 |
| 4 | 262.8955 | 53.70 | -15.48 | 38.22 | 46.00 | -7.78 |
| 5 | 420.5803 | 42.49 | -13.74 | 28.75 | 46.00 | -17.25 |
| 6 | 813.1114 | 38.61 | -9.49 | 29.12 | 46.00 | -16.88 |





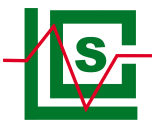
Channel 19 / 915.0 MHz

Vertical

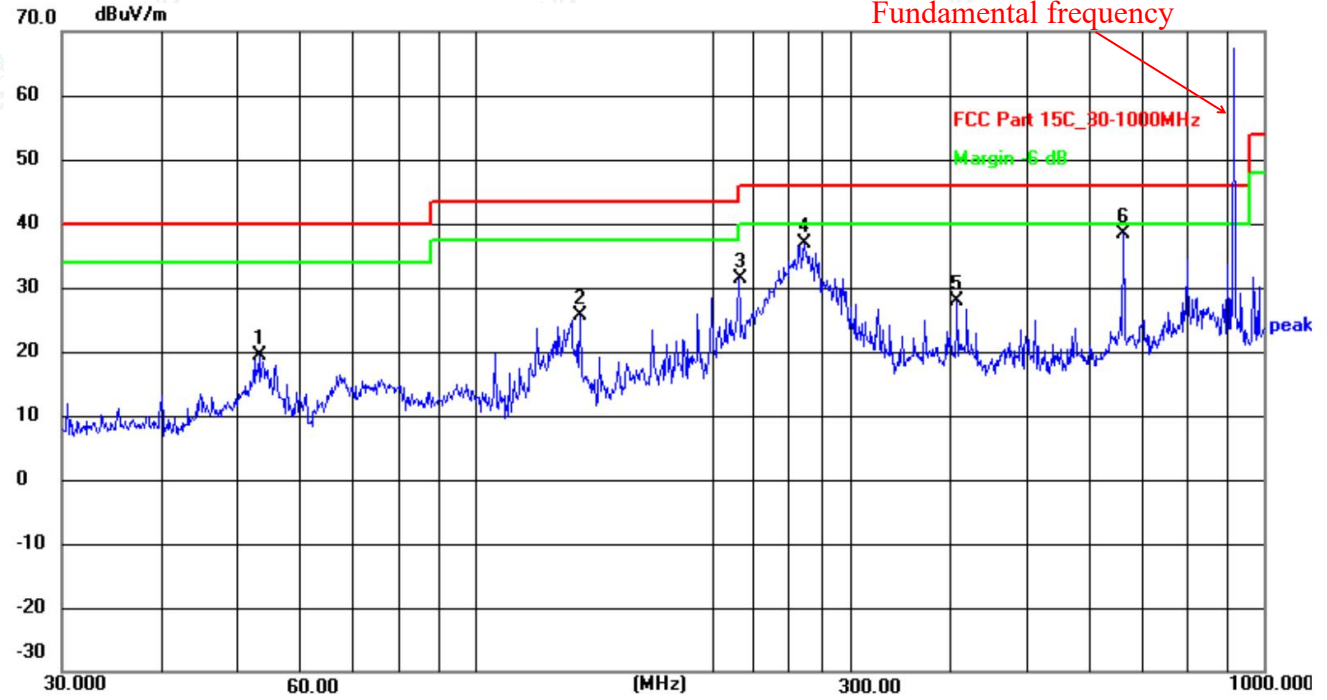


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 | 39.9941 | 34.26 | -17.54 | 16.72 | 40.00 | -23.28 |
| 2 | 52.7600 | 43.99 | -17.54 | 26.45 | 40.00 | -13.55 |
| 3 | 135.9821 | 47.51 | -20.76 | 26.75 | 43.50 | -16.75 |
| 4 | 271.3245 | 47.56 | -15.40 | 32.16 | 46.00 | -13.84 |
| 5 | 661.1503 | 38.46 | -11.05 | 27.41 | 46.00 | -18.59 |
| 6 | 798.9796 | 39.42 | -9.96 | 29.46 | 46.00 | -16.54 |



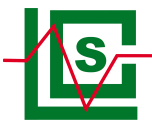


Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 | 53.3179 | 36.96 | -17.64 | 19.32 | 40.00 | -20.68 |
| 2 | 135.9821 | 46.43 | -20.76 | 25.67 | 43.50 | -17.83 |
| 3 | 216.0237 | 48.45 | -16.98 | 31.47 | 46.00 | -14.53 |
| 4 | 261.9750 | 52.28 | -15.48 | 36.80 | 46.00 | -9.20 |
| 5 | 408.9458 | 42.02 | -14.12 | 27.90 | 46.00 | -18.10 |
| 6 | 663.4728 | 49.43 | -11.05 | 38.38 | 46.00 | -7.62 |

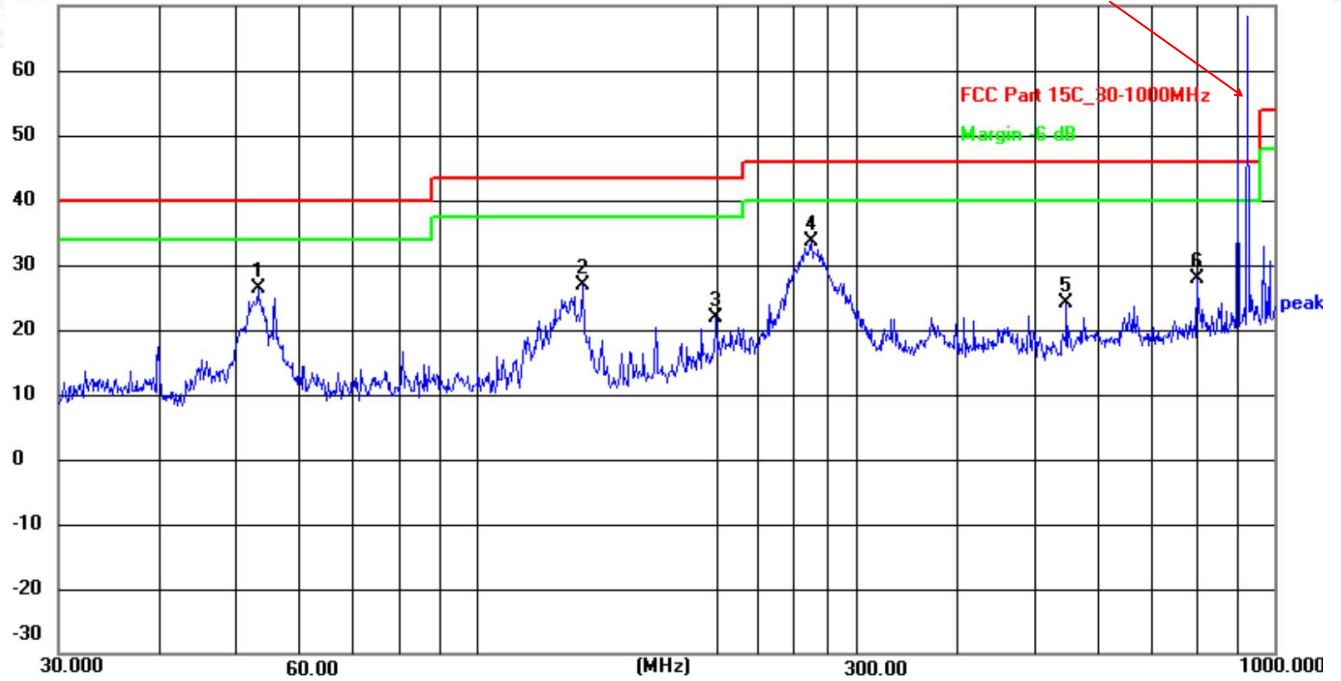




Channel 40 / 925.0 MHz

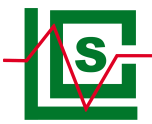
Vertical

70.0 dBuV/m

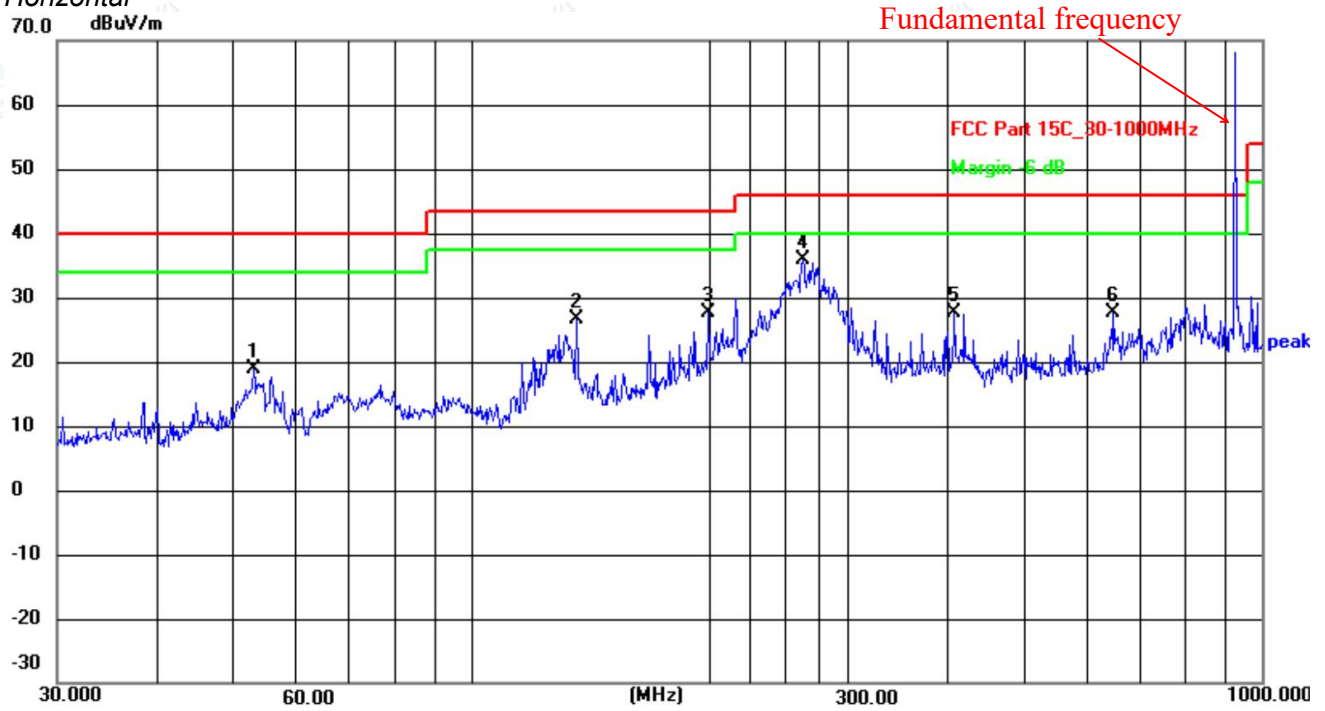


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 | 53.3179 | 44.14 | -17.64 | 26.50 | 40.00 | -13.50 |
| 2 | 135.9821 | 47.76 | -20.76 | 27.00 | 43.50 | -16.50 |
| 3 | 199.9855 | 39.37 | -17.39 | 21.98 | 43.50 | -21.52 |
| 4 | 262.8955 | 49.04 | -15.48 | 33.56 | 46.00 | -12.44 |
| 5 | 549.0193 | 35.89 | -11.83 | 24.06 | 46.00 | -21.94 |
| 6 | 798.9796 | 37.92 | -9.96 | 27.96 | 46.00 | -18.04 |



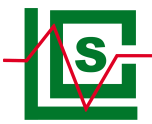


Horizontal
70.0 dBuV/m



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 | 53.1313 | 36.38 | -17.60 | 18.78 | 40.00 | -21.22 |
| 2 | 135.9821 | 47.39 | -20.76 | 26.63 | 43.50 | -16.87 |
| 3 | 199.9855 | 44.98 | -17.39 | 27.59 | 43.50 | -15.91 |
| 4 | 262.8955 | 51.36 | -15.48 | 35.88 | 46.00 | -10.12 |
| 5 | 408.9458 | 41.76 | -14.12 | 27.64 | 46.00 | -18.36 |
| 6 | 649.6594 | 38.66 | -11.03 | 27.63 | 46.00 | -18.37 |

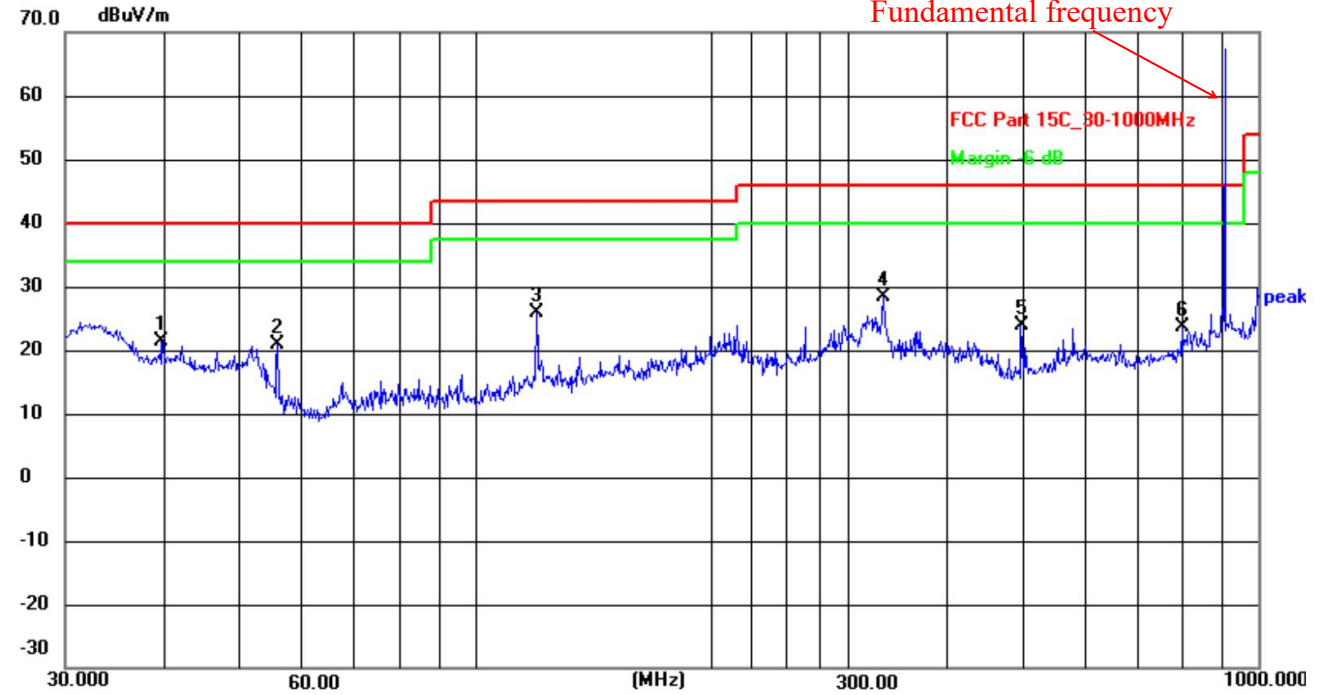




| | | | |
|---------------|-----------|------------|-------|
| Temperature | 23.8°C | Humidity | 52.1% |
| Test Engineer | Mening Su | Modulation | 2-FSK |

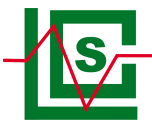
Channel 0 /905.0 MHz

Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 | 39.8542 | 39.01 | -17.56 | 21.45 | 40.00 | -18.55 |
| 2 | 56.0007 | 38.97 | -18.13 | 20.84 | 40.00 | -19.16 |
| 3 | 119.8556 | 45.84 | -19.93 | 25.91 | 43.50 | -17.59 |
| 4 | 332.5187 | 42.86 | -14.40 | 28.46 | 46.00 | -17.54 |
| 5 | 497.6765 | 37.20 | -13.28 | 23.92 | 46.00 | -22.08 |
| 6 | 798.9797 | 33.67 | -9.96 | 23.71 | 46.00 | -22.29 |

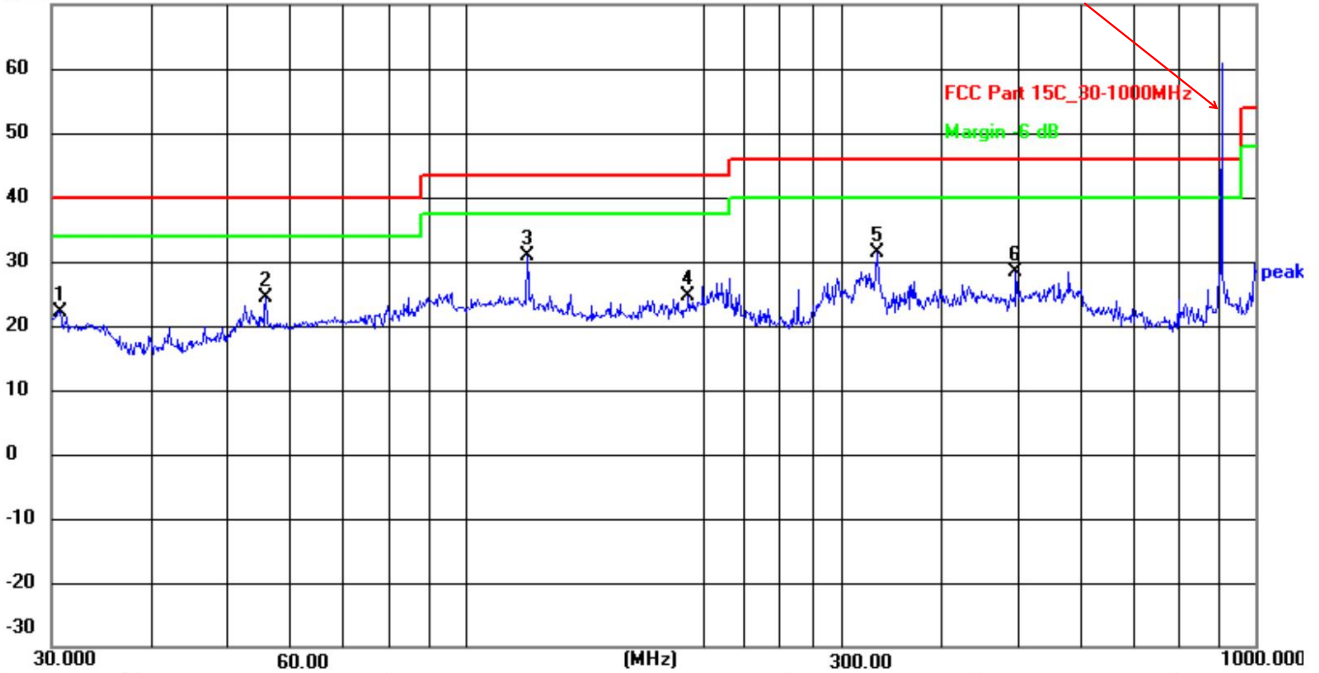




Horizontal

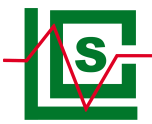
70.0 dBuV/m

Fundamental frequency



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 | 30.7454 | 40.56 | -18.35 | 22.21 | 40.00 | -17.79 |
| 2 | 56.0007 | 42.47 | -18.13 | 24.34 | 40.00 | -15.66 |
| 3 | 119.8555 | 50.84 | -19.93 | 30.91 | 43.50 | -12.59 |
| 4 | 191.7450 | 42.68 | -18.17 | 24.51 | 43.50 | -18.99 |
| 5 | 332.5187 | 45.86 | -14.40 | 31.46 | 46.00 | -14.54 |
| 6 | 497.6764 | 41.70 | -13.28 | 28.42 | 46.00 | -17.58 |



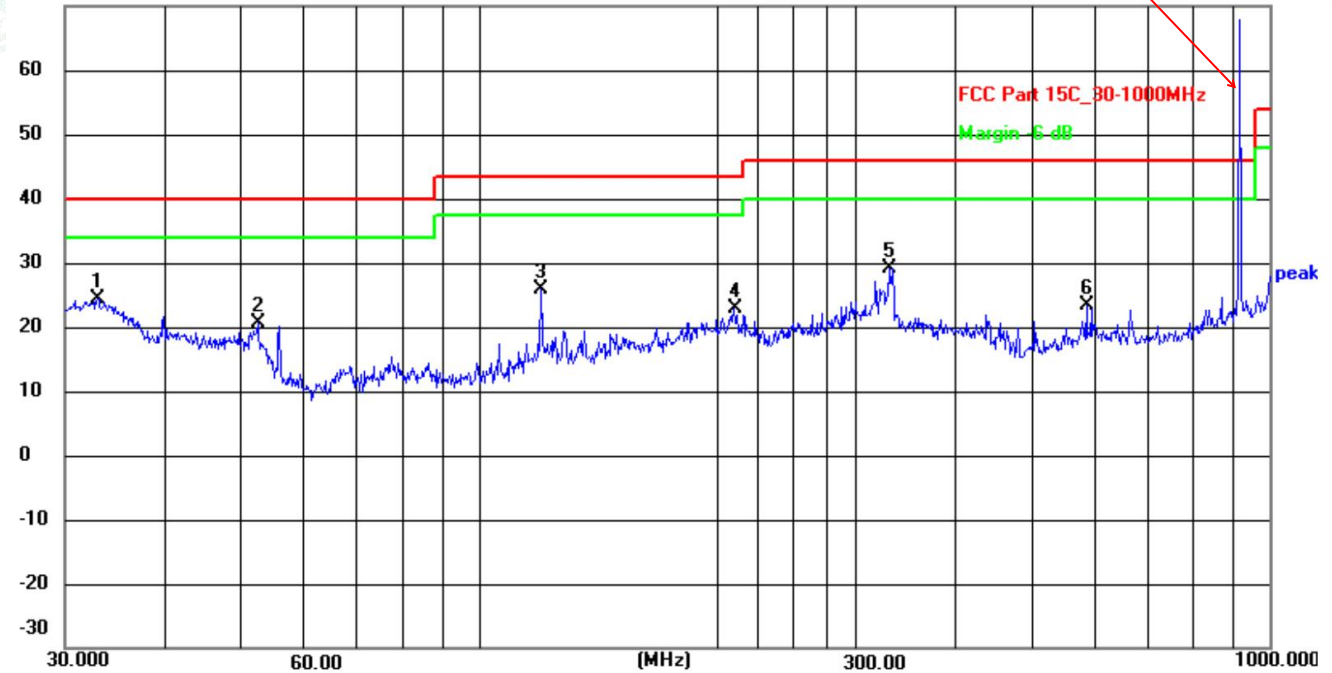


Channel 19 / 915.0 MHz

Vertical

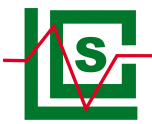
70.0 dBuV/m

Fundamental frequency



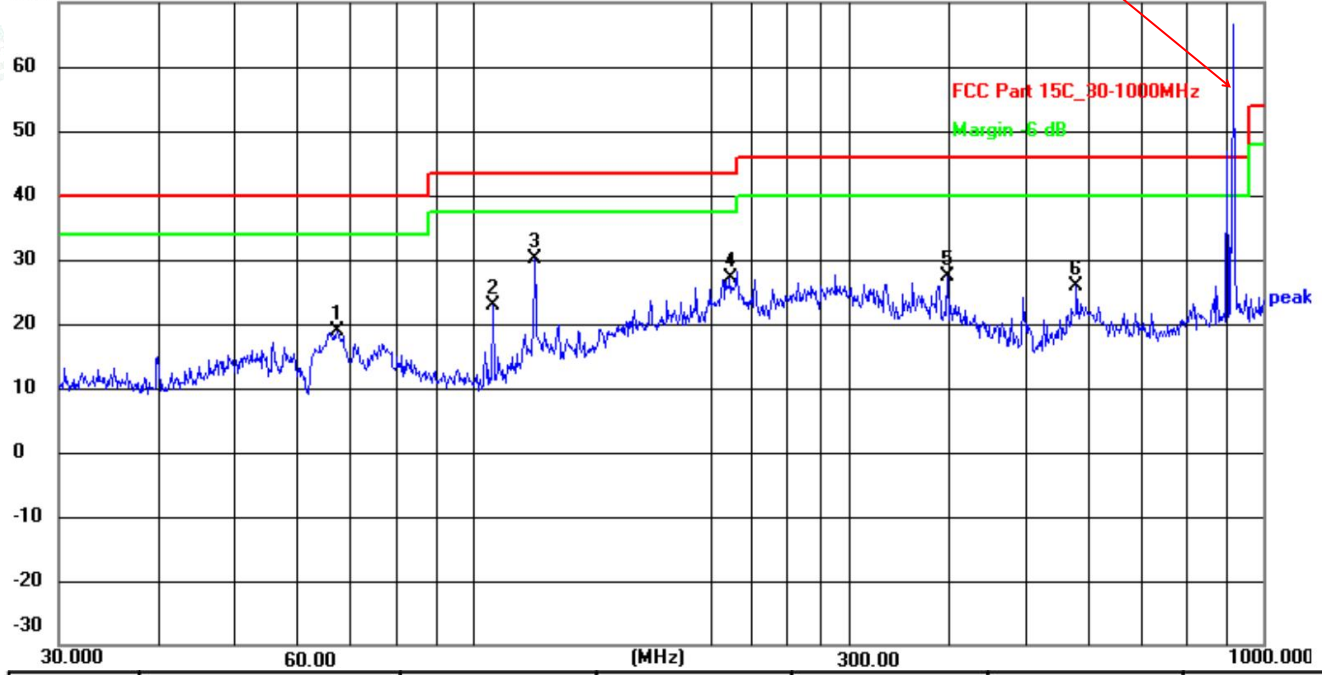
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 | 32.9791 | 42.48 | -18.06 | 24.42 | 40.00 | -15.58 |
| 2 | 52.5753 | 38.07 | -17.50 | 20.57 | 40.00 | -19.43 |
| 3 | 119.8556 | 45.79 | -19.93 | 25.86 | 43.50 | -17.64 |
| 4 | 210.0482 | 39.93 | -17.14 | 22.79 | 43.50 | -20.71 |
| 5 | 330.1949 | 43.38 | -14.33 | 29.05 | 46.00 | -16.95 |
| 6 | 586.8437 | 33.94 | -10.66 | 23.28 | 46.00 | -22.72 |





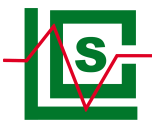
Horizontal
70.0 dBuV/m

Fundamental frequency



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 | 67.4382 | 38.23 | -19.32 | 18.91 | 40.00 | -21.09 |
| 2 | 106.3850 | 41.51 | -18.74 | 22.77 | 43.50 | -20.73 |
| 3 | 119.8556 | 50.00 | -19.93 | 30.07 | 43.50 | -13.43 |
| 4 | 211.5265 | 44.31 | -17.09 | 27.22 | 43.50 | -16.28 |
| 5 | 399.0302 | 41.90 | -14.43 | 27.47 | 46.00 | -18.53 |
| 6 | 580.7026 | 36.54 | -10.77 | 25.77 | 46.00 | -20.23 |



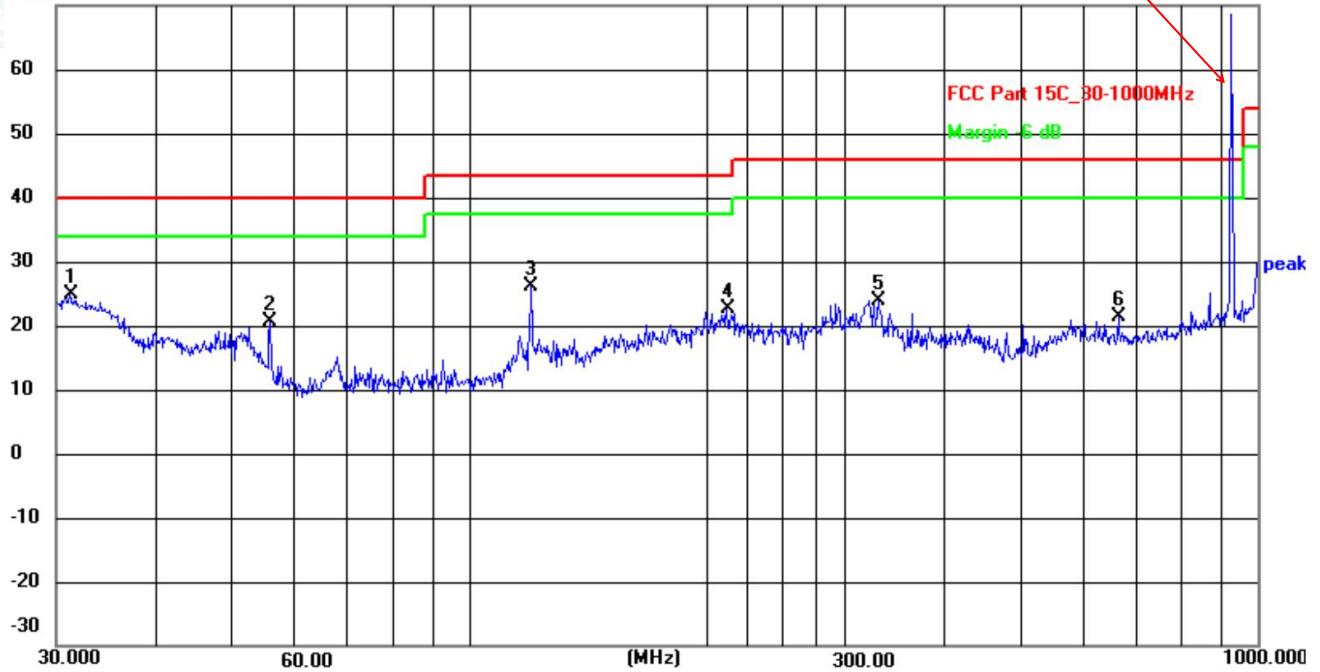


Channel 40 / 925.0 MHz

Vertical

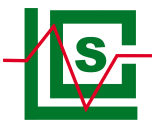
70.0 dBuV/m

Fundamental frequency



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 | 31.1798 | 43.16 | -18.30 | 24.86 | 40.00 | -15.14 |
| 2 | 56.0007 | 38.88 | -18.13 | 20.75 | 40.00 | -19.25 |
| 3 | 119.8556 | 46.07 | -19.93 | 26.14 | 43.50 | -17.36 |
| 4 | 212.2695 | 39.60 | -17.08 | 22.52 | 43.50 | -20.98 |
| 5 | 330.1949 | 38.28 | -14.33 | 23.95 | 46.00 | -22.05 |
| 6 | 665.8035 | 32.42 | -11.06 | 21.36 | 46.00 | -24.64 |

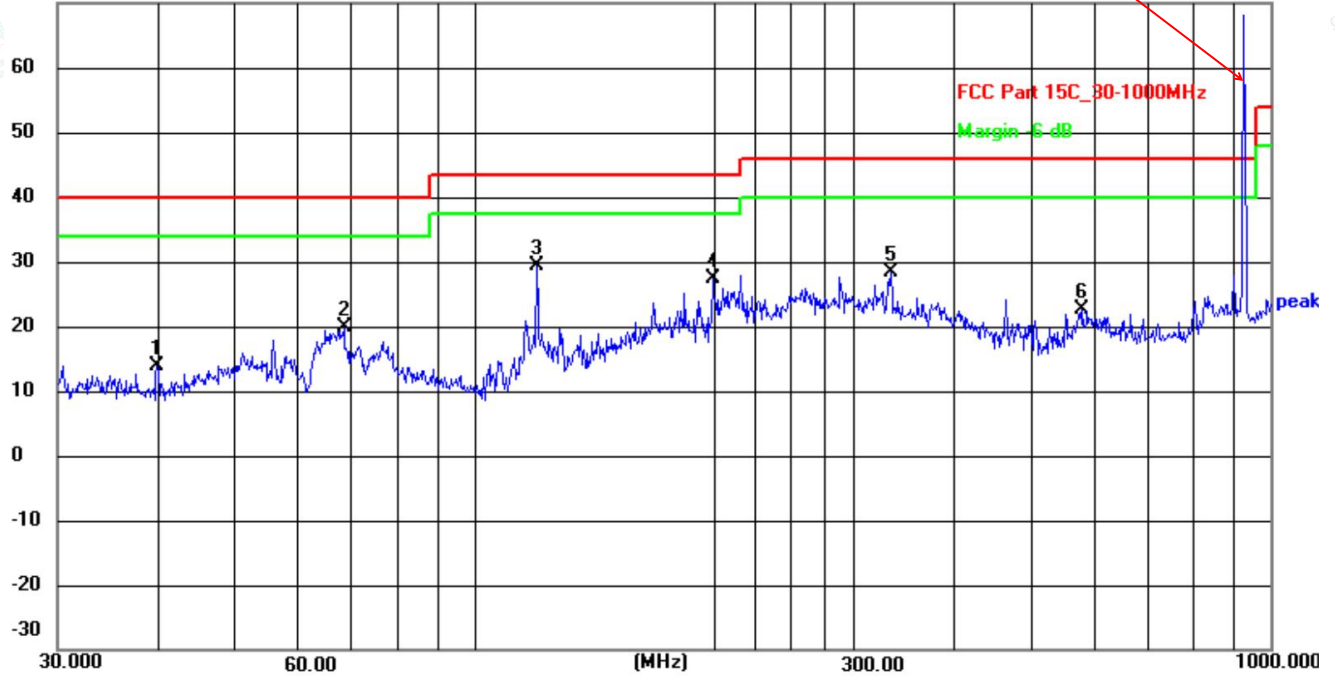




Horizontal

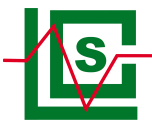
70.0 dBuV/m

Fundamental frequency



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 | 39.9942 | 31.31 | -17.54 | 13.77 | 40.00 | -26.23 |
| 2 | 68.6310 | 39.18 | -19.38 | 19.80 | 40.00 | -20.20 |
| 3 | 119.8556 | 49.22 | -19.93 | 29.29 | 43.50 | -14.21 |
| 4 | 199.2855 | 44.75 | -17.38 | 27.37 | 43.50 | -16.13 |
| 5 | 333.6867 | 42.73 | -14.43 | 28.30 | 46.00 | -17.70 |
| 6 | 580.7026 | 33.49 | -10.77 | 22.72 | 46.00 | -23.28 |



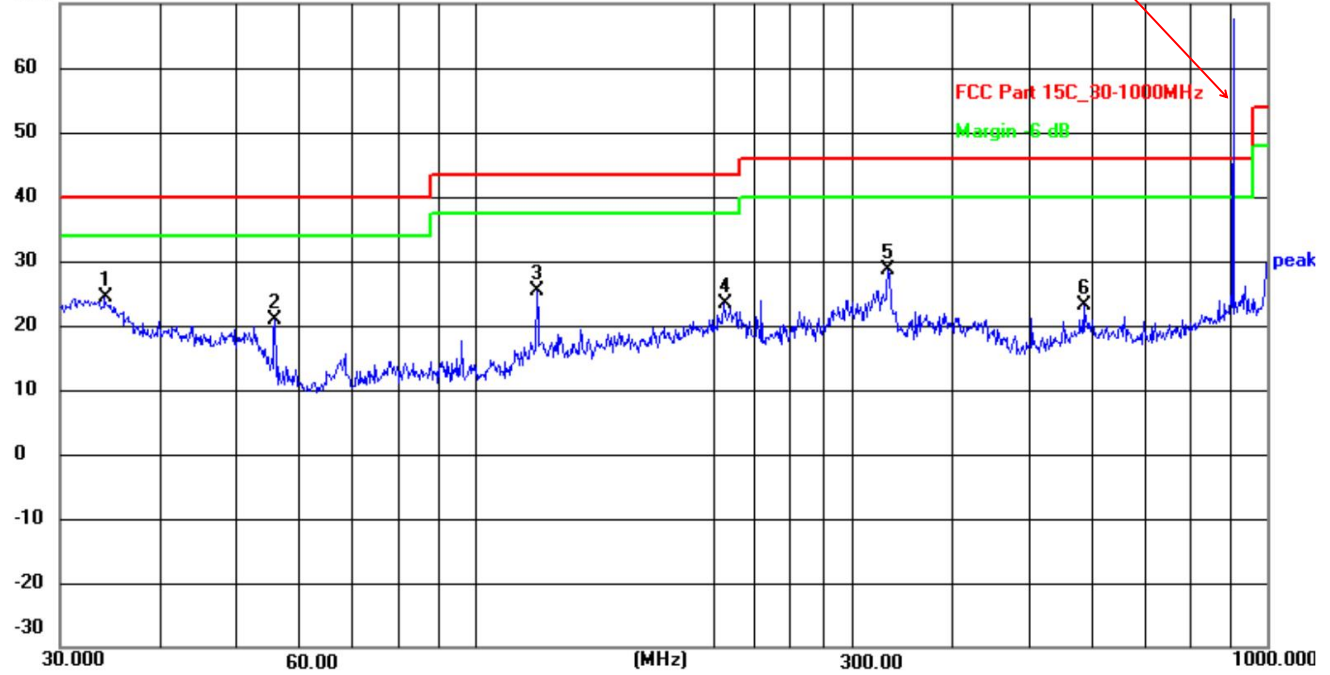


| | | | |
|---------------|-----------|------------|---------|
| Temperature | 23.8°C | Humidity | 52.1% |
| Test Engineer | Mening Su | Modulation | 2-GFSK1 |

Channel 0 /905.0 MHz

Vertical

70.0 dBuV/m



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|
| 1 | 34.1561 | 42.28 | -17.91 | 24.37 | 40.00 | -15.63 |
| 2 | 56.0007 | 39.05 | -18.13 | 20.92 | 40.00 | -19.08 |
| 3 | 119.8556 | 45.37 | -19.93 | 25.44 | 43.50 | -18.06 |
| 4 | 206.3976 | 40.53 | -17.23 | 23.30 | 43.50 | -20.20 |
| 5 | 332.5187 | 42.97 | -14.40 | 28.57 | 46.00 | -17.43 |
| 6 | 586.8437 | 33.80 | -10.66 | 23.14 | 46.00 | -22.86 |

