

TEST REPORT

Application No.: BTEK240410003AE
Version Number: V0
Applicant: QUANZHOU DAYTECH ELECTRONICS CO., LTD.
Address of Applicant: Hengdali Business Center, North Quanan Road, Jinjiang City, Quanzhou, Fujian, China
Manufacturer: QUANZHOU DAYTECH ELECTRONICS CO., LTD.
Address of Manufacturer: Hengdali Business Center, North Quanan Road, Jinjiang City, Quanzhou, Fujian, China
Factory: QUANZHOU DAYTECH ELECTRONICS CO., LTD.
Address of Factory: Hengdali Business Center, North Quanan Road, Jinjiang City, Quanzhou, Fujian, China
Equipment Under Test (EUT):
EUT Name: wireless doorbell
Model No.: BT-DB19, BT004, BT006, BT008WH, BT-LC01, CB07, CB09
Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: N/A
Standard(s) : 47 CFR Part 15, Subpart C 15.231
Date of Receipt: 2024-04-10
Date of Test: 2024-04-10 to 2024-05-16
Date of Issue: 2024-05-16

| | |
|---------------------|--------------|
| Test Result: | Pass* |
|---------------------|--------------|

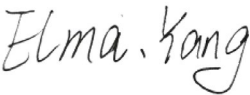
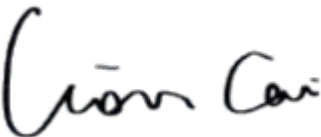
* In the configuration tested, the EUT complied with the standards specified above.



Damon Su
EMC Laboratory Manager



| Revision Record | | | | |
|-----------------|---------|------------|----------|------------|
| Version | Chapter | Date | Modifier | Remark |
| V0 | | 2024-04-24 | | Original |
| V1 | | 2024-05-16 | | Retest OBW |
| | | | | |

| | | | | |
|-------------------------|--|--|--|--|
| Authorized for issue by | | | | |
| | |  | | |
| | | <hr/> | | |
| | | Elma Yang / Project Engineer | | |
| | |  | | |
| | | <hr/> | | |
| | | Lion cai / Reviewer | | |



2 Test Summary

| Radio Spectrum Technical Requirement | | | | |
|--------------------------------------|----------------------------------|--------|----------------------------------|--------|
| Item | Standard | Method | Requirement | Result |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.203 | N/A | 47 CFR Part 15, Subpart C 15.203 | Pass |

| Item | Standard | Requirement | Result |
|--|----------------------------------|---|--------|
| Conduction Emission | 47 CFR Part 15, Subpart C 15.207 | 47 CFR Part 15, Subpart C 15.207 | N/A |
| 20dB Bandwidth | 47 CFR Part 15, Subpart C 15.231 | 47 CFR Part 15, Subpart C 15.231(c) | Pass |
| Transmission time | | 47 CFR Part 15, Subpart C 15.231a(1) | Pass |
| Duty cycle corrected factor | | -- | Pass |
| Field strength of the Fundamental signal | | 47 CFR Part 15, Subpart C 15.231 (b) | Pass |
| Radiation Spurious Emission | | 47 CFR Part 15, Subpart C 15.231(b)/15.205/15.209 | Pass |

Note:

N/A: Not applicable.

Due to the EUT is powered by battery, The Conduction Emission is not applicable.

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

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

Model No.: BT-DB19, BT004, BT006, BT008WH, BT-LC01, CB07, CB09

Only the model BT-DB19 was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions of other models are identical for the above models, with only difference on Model No.



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| | | |
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4 General Information

4.1 Details of E.U.T.

| | |
|---|--|
| Power supply: | DC 12V from basic zinc-manganese battery |
| Cable(s): | / |
| Frequency Range: | 434MHz |
| Modulation Type: | OOK |
| Number of Channels: | 1 |
| Sample Type: | Mobile device |
| Antenna Type: | Onboard antenna |
| Antenna Gain: | -1 dBi |
| Hardware Version | N/A |
| Software and Firmware Version | N/A |
| Remark: The information in this section is provided by the applicant or manufacturer, BANTEK is not liable to the accuracy, suitability, reliability or/and integrity of the information. | |
| Sample No.: | BTEK240410003AE-01 |

4.2 Description of Support Units

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

4.3 Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|---|---|
| Conducted Peak Output Power | $\pm 0.76\text{dB}$ |
| 20dB Bandwidth | $\pm 3\%$ |
| Conducted Spurious Emissions | $\pm 0.8\text{dB}$ |
| Radiated Emissions which fall in the restricted bands | $\pm 5.1\text{dB}$ (1GHz-6GHz); $\pm 5.2\text{dB}$ (above 6GHz) |
| Radiated Spurious Emissions (Below 1GHz) | $\pm 5.1\text{dB}$ |
| Radiated Spurious Emissions (Above 1GHz) | $\pm 5.1\text{dB}$ (1GHz-6GHz); $\pm 5.2\text{dB}$ (above 6GHz) |



4.4 Test Location

All tests were performed at:

Shenzhen BANTEK Testing Co., Ltd.,

A5&A6, Building B1&B2, No.45 Gangtuo Road, Bogang Community, Shajing Street, Bao'an District,
Shenzhen, Guangdong, China 518104

Tel: 0755-2334 4200 Fax: 0755-2334 4200

FCC Registration Number: 264293

Designation Number: CN1356

No tests were sub-contracted.

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None



5 Equipment List

| RF Conducted | | | | | |
|---|----------------------|-------------------------|---------------------|------------|--------------|
| Equipment | Manufacturer | Model No | Serial No | Cal Date | Cal Due Date |
| Shielding Room | YIHENG ENECTRONIC | 5.5*3.1*3 | YH-BT- 220304-03 | 2022-03-03 | 2025-03-02 |
| EXA Signal Analyzer | KEYSIGHT | N9020A | MY54230486 | 2023-06-12 | 2024-06-11 |
| DC Power Supply | E3632A | E3642A | KR75304416 | 2023-06-12 | 2024-06-11 |
| Attenuator | RswTech | SMA-JK-6dB | N/A | 2023-06-12 | 2024-06-11 |
| Attenuator | RswTech | SMA-JK-3dB | N/A | 2023-06-12 | 2024-06-11 |
| RF Control Unit | Techy | TR1029-1 | N/A | 2023-06-12 | 2024-06-11 |
| RF Sensor Unit | Techy | TR1029-2 | N/A | 2023-06-12 | 2024-06-11 |
| WIDEBAND RADIO COMMUNICATION TESTER | R&S | CMW 500 | 141258 | 2023-06-12 | 2024-06-11 |
| MXG Vector Signal Generator | Agilent | N5182A | US46240522 | 2023-06-12 | 2024-06-11 |
| Programmable Temperature&Humidity Chamber | GRT | GR-HWX1000 | GR22051001 | 2023-06-12 | 2024-06-11 |
| Measurement Software | TACHOY | RF TestSoft V2.0.0.0 | N/A | N/A | N/A |

| RSE | | | | | |
|-----------------------------|----------------------|------------------------|---------------------|------------|--------------|
| Equipment | Manufacturer | Model No | Serial No | Cal Date | Cal Due Date |
| 3m Semi-Anechoic Chamber | YIHENG ENECTRONIC | 966 | YH-BT- 220304-01 | 2022-03-03 | 2025-03-02 |
| EMI Test Receiver | Rohde&Schwarz | ESCI | 100694 | 2023-06-12 | 2024-06-11 |
| TRILOG Broadband Antenna | Schwarzbeck | VULB 9168 | 01324 | 2022-06-15 | 2025-06-14 |
| Pre-Amplifier | Schwarzbeck | BBV 9745 | #180 | 2023-06-12 | 2024-06-11 |
| Measurement Software | Fara | EZ EMC Ver. FA-03A2 | N/A | 2023-06-12 | 2024-06-11 |
| EXA Signal Analyzer | Keysight | N9020A | MY54440290 | 2023-06-12 | 2024-06-11 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 02695 | 2022-06-15 | 2025-06-14 |
| Pre-Amplifier | Tonscend | TAP0118045 | AP20K806109 | 2023-06-12 | 2024-06-11 |
| Horn Antenna | SCHWARZBECK | BBHA9170 | 1157 | 2022-06-15 | 2025-06-14 |
| Low Noise Pre-amplifier | SKET | LNPA-1840G- 50 | SK2022032902 | 2023-06-12 | 2024-06-11 |
| Signal analyzer | ROHDE&SCHWARZ | FSQ40 | 100010 | 2023-06-12 | 2024-06-11 |
| Loop Antenna | ETS | 6502 | 00201177 | 2022-06-15 | 2025-06-14 |



| General used equipment | | | | | |
|--|--------------|----------|-----------|------------|--------------|
| Equipment | Manufacturer | Model No | Serial No | Cal Date | Cal Due Date |
| Humidity/Temperature/Barometric Pressure Indicator | KUMAR | F132 | N/A | 2023-06-12 | 2024-06-11 |
| Humidity/Temperature/Barometric Pressure Indicator | KUMAR | F132 | N/A | 2023-06-12 | 2024-06-11 |



6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

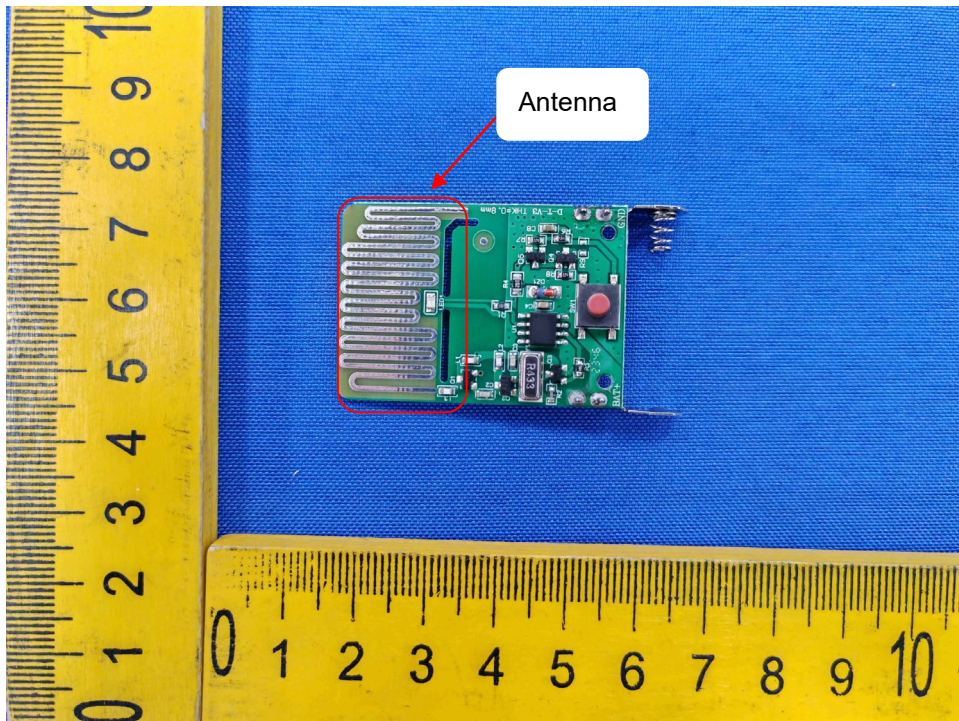
6.1.2 Conclusion

Standard Requirement:

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level. When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

EUT Antenna:

The antenna is integrated on the Chip in PCB and no consideration of replacement. The best case gain of the antenna is -1dBi.



7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.231(c)

Limit:

| Frequency range(MHz) | Limit |
|----------------------|---|
| 70-900 | No wider than 0.25% of the center frequency |
| Above 900 | No wider than 0.5% of the center frequency |

Remark: For this device, the limit is $434\text{MHz} \times 0.25\% = 1.085\text{MHz}$

7.1.1 E.U.T. Operation

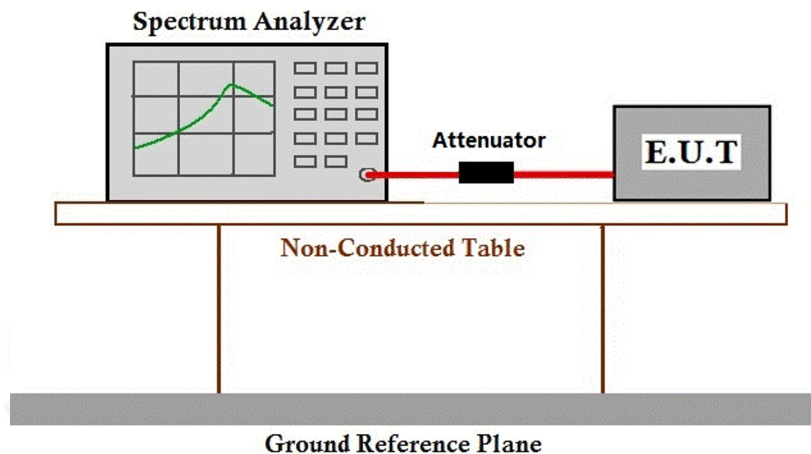
Operating Environment:

Temperature: 24.1 °C Humidity: 56.7 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 01 | keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. All modes have been tested and only the data of worst case is recorded in the report. |

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

cable loss=0.83dB

Please Refer to Appendix



7.2 Transmission time

Test Requirement 47 CFR Part 15, Subpart C 15.231a(1)

Limit: A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

7.2.1 E.U.T. Operation

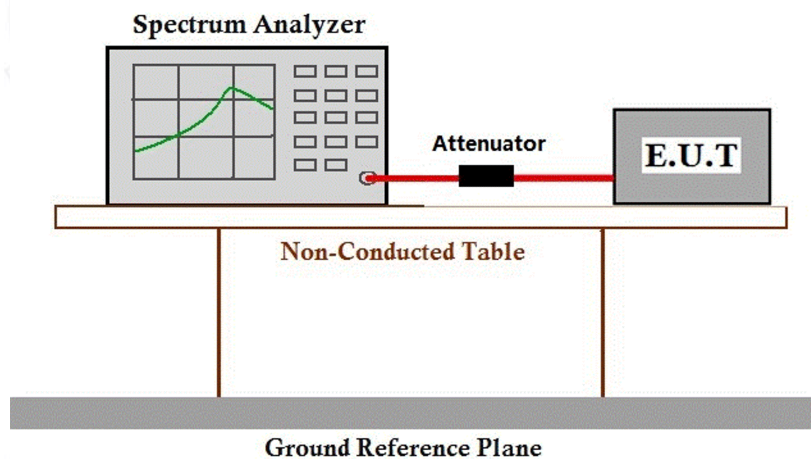
Operating Environment:

Temperature: 24.1 °C Humidity: 56.7 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 01 | The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings: Frequency=Center carrier frequency RBW=100kHz, VBW=300kHz, Span= zero, Sweep time= 10second, Detector function = peak, Trace = single |

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

cable loss=0.83dB

Please Refer to Appendix



7.3 Duty Cycle Corrected Factor

Test Requirement 47 CFR Part 15, Subpart C 15.231
Limit: N/A

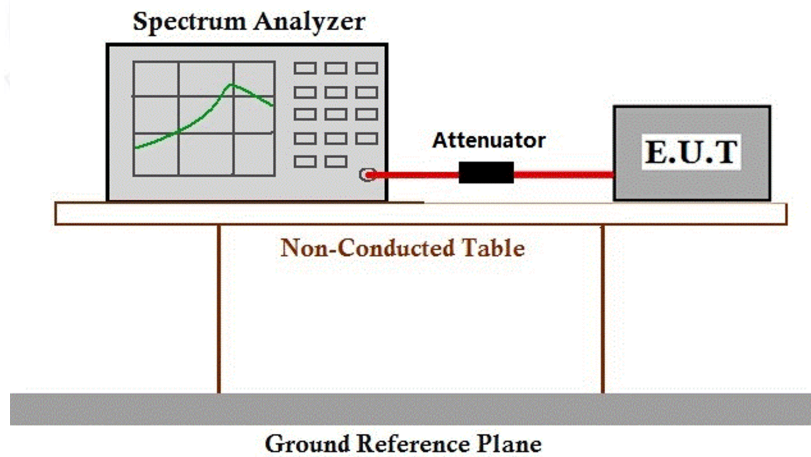
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 24.1 °C Humidity: 56.7 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|--|
| Final test | 01 | The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings: Span=zero span, Frequency=centered channel, RBW= 1MHz, VBW ≥ RBW . Sweep time=as necessary to capture the entire dwell time, Detector function = peak, Trigger mode |

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

cable loss=0.83dB

Please Refer to Appendix



7.4 Field strength of the Fundamental signal

Test Requirement 47 CFR Part 15, Subpart C 15.231(b)

Limit:

| Frequency(MHz) | Field strength of fundamental (microvolts/meter) | Field strength of spurious emissions (microvolts/meter) |
|----------------|--|---|
| 40.66–40.70 | 2,250 | 225 |
| 70–130 | 1,250 | 125 |
| 130–174 | *1,250 to 3,750 | *125 to 375 |
| 174–260 | 3,750 | 375 |
| 260–470 | *3,750 to 12,500 | *375 to 1,250 |
| Above 470 | 12,500 | 1,250 |

*Linear interpolations

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C

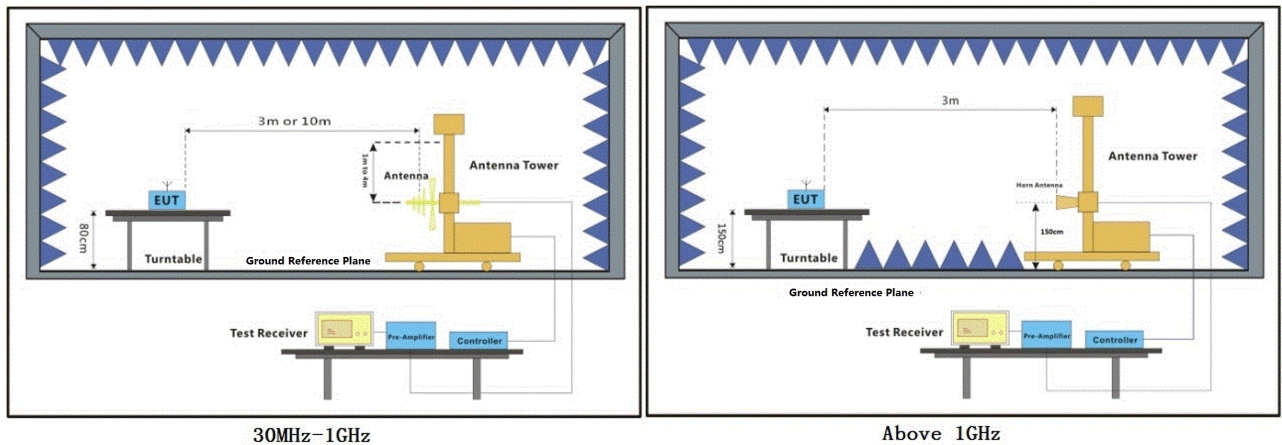
Humidity: 56.7 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 01 | Set to the maximum power setting and enable the EUT transmit continuously. All modes have been tested and only the data of worst case is recorded in the report. |

7.4.3 Test Setup Diagram



7.4.4 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 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 1: Level= Reading Level + Factor

Remark 2: 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.

Please Refer to Appendix



7.5 Radiated Spurious Emission

Test Requirement 47 CFR Part 15, Subpart C 15.231(b)/15.209

Limit:

15.209

| 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 |

15.231(b)

| Frequency(MHz) | Field strength of fundamental (microvolts/meter) | Field strength of spurious emissions (microvolts/meter) |
|----------------|---|--|
| 40.66-40.70 | 2,250 | 225 |
| 70-130 | 1,250 | 125 |
| 130-174 | *1,250 to 3,750 | *125 to 375 |
| 174-260 | 3,750 | 375 |
| 260-470 | *3,750 to 12,500 | *375 to 1,250 |
| Above 470 | 12,500 | 1,250 |

*Linear interpolations

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C

Humidity: 56.7 % RH

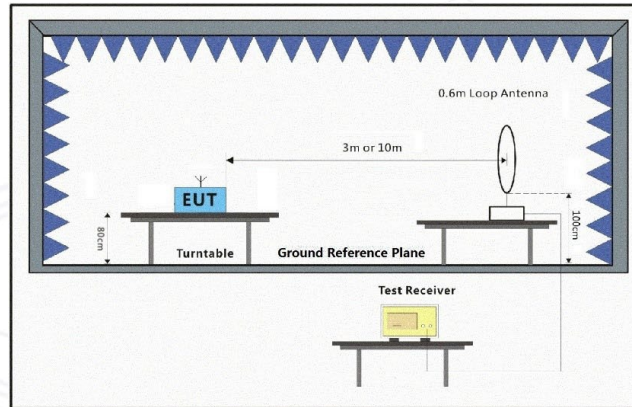
Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

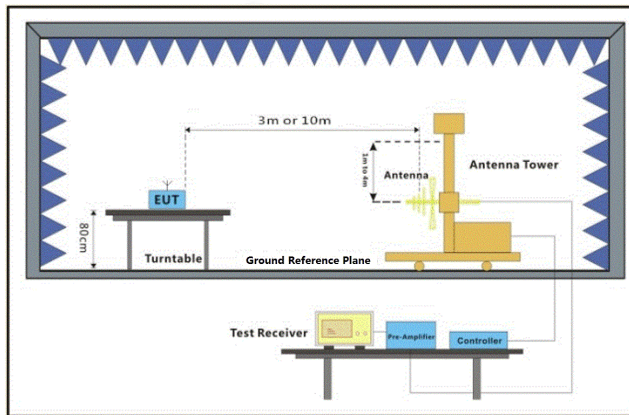
| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 01 | Set to the maximum power setting and enable the EUT transmit continuously. All modes have been tested and only the data of worst case is recorded in the report. |



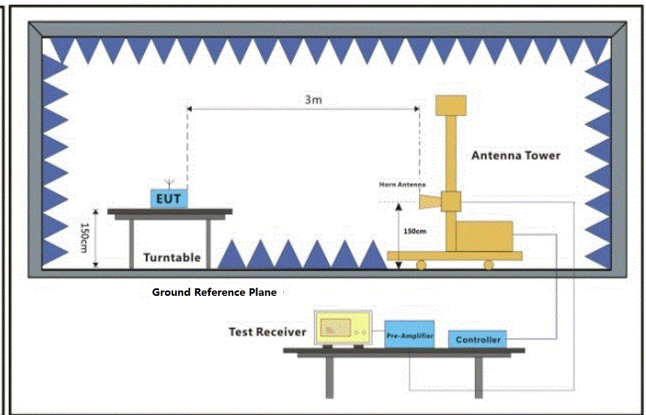
7.5.3 Test Setup Diagram



9KHz~30MHz



30MHz~1GHz



Above 1GHz



7.5.4 Measurement Procedure and Data

1. For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of Horizontal was shown in the report.

Measured Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

2. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation.

3. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

4. 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.

5. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

6. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

7. 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.

Remark:

1) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Reading Level + Factor

3) Scan from 9kHz to 1 GHz, 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.

Please Refer to Appendix

Note:

1) Pre-scan all modes and recorded the worst case results in this report (High Channel).

2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

3) Level = Reading + Factor, Margin = Level - Limit, Factor = Antenna Factor Cable Loss - Preamp Factor



8 Test Setup Photo

Please Refer to Appendix – Test Setup Photos.

9 EUT Constructional Details (EUT Photos)

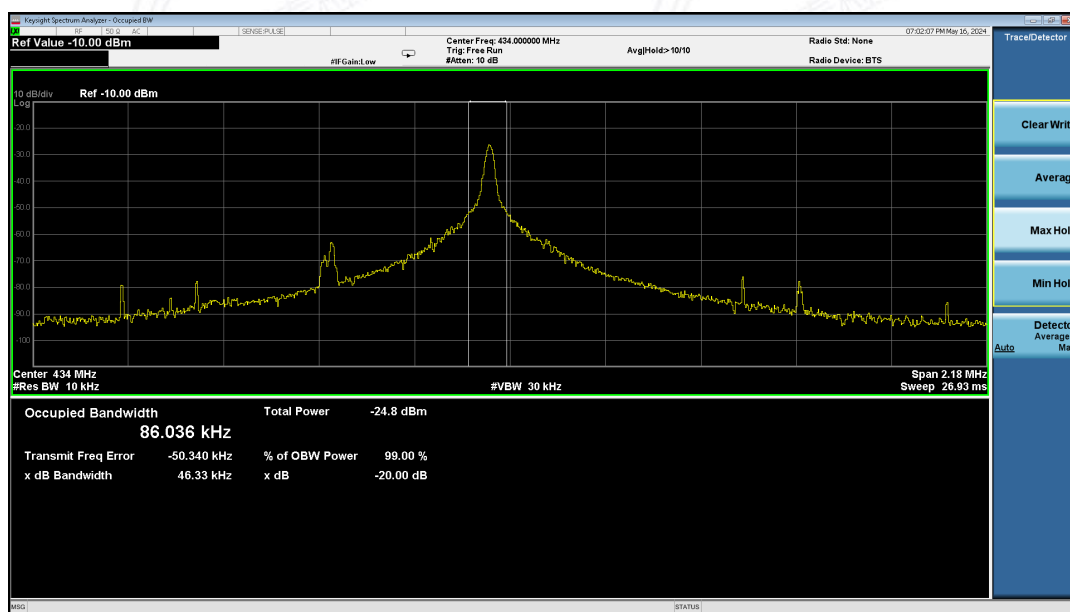
Please Refer to Appendix - External and Internal Appendix EUT Photos



10 Appendix

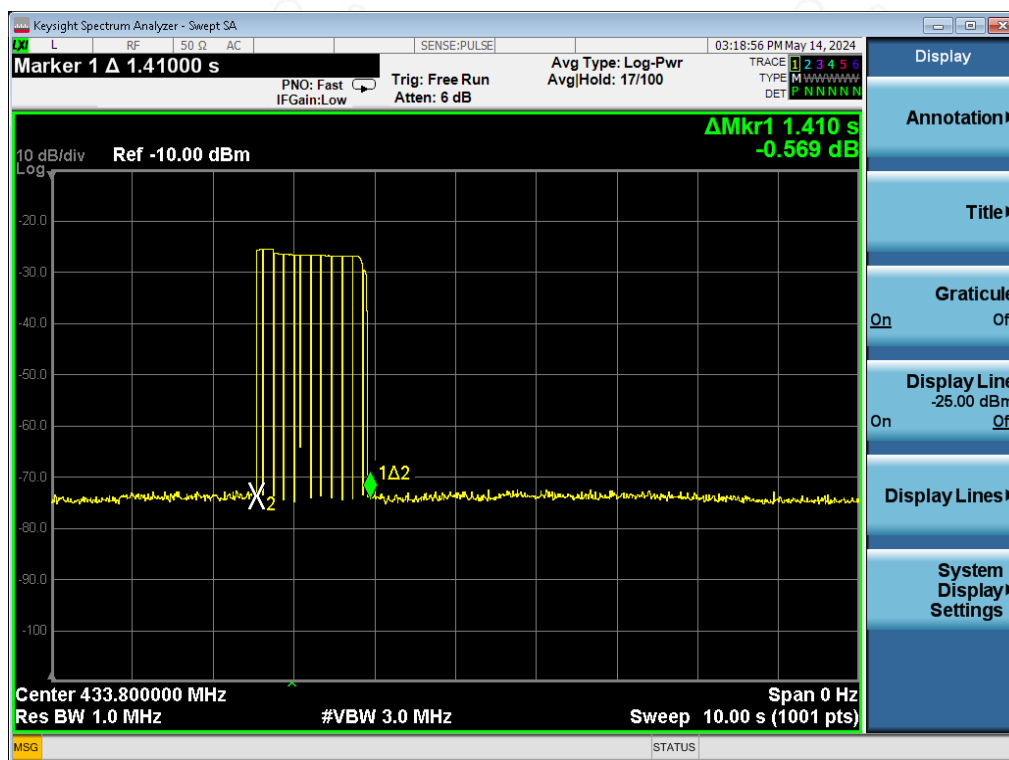
10.1 20dB Bandwidth

| Test Channel | Bandwidth | Limit | Verdict |
|--------------|-----------|----------|---------|
| 434MHz | 46.33KHz | 1.085MHz | PASS |



10.2 Transmission time

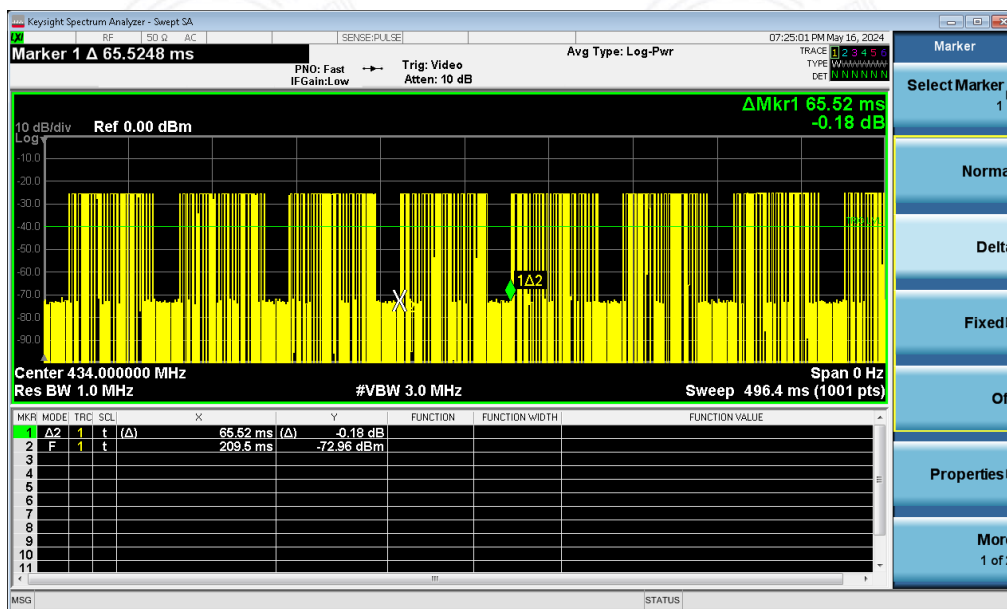
| Transmission time(second) | Limit(second) | Result |
|---------------------------|---------------|--------|
| 1.41 | 5 | Pass |



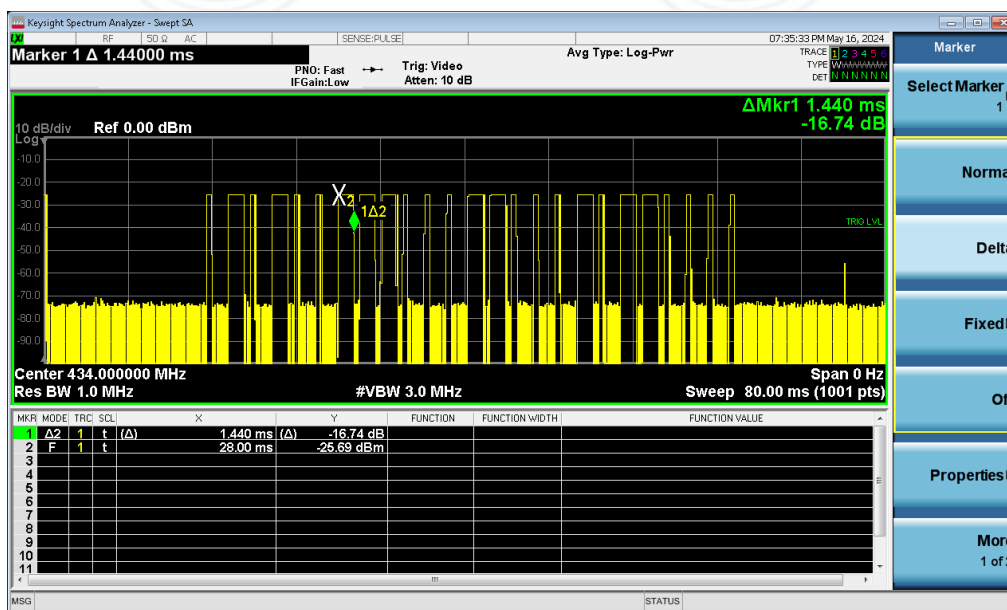
10.3 Duty cycle corrected factor

| | |
|-----------------------------|--|
| T _{ON} (ms) | 21.6ms |
| T _{ON} number | TXon1=10*1.44ms ;TXon2=15*0.48ms TXon1+ TXon2=14.4+7.2=21.6ms |
| Period (ms) | 65.52 |
| Duty Cycle | 21.6/65.52=0.33 |
| Duty Cycle Corrected Factor | 20*log(0.33)=-9.64 |

Period

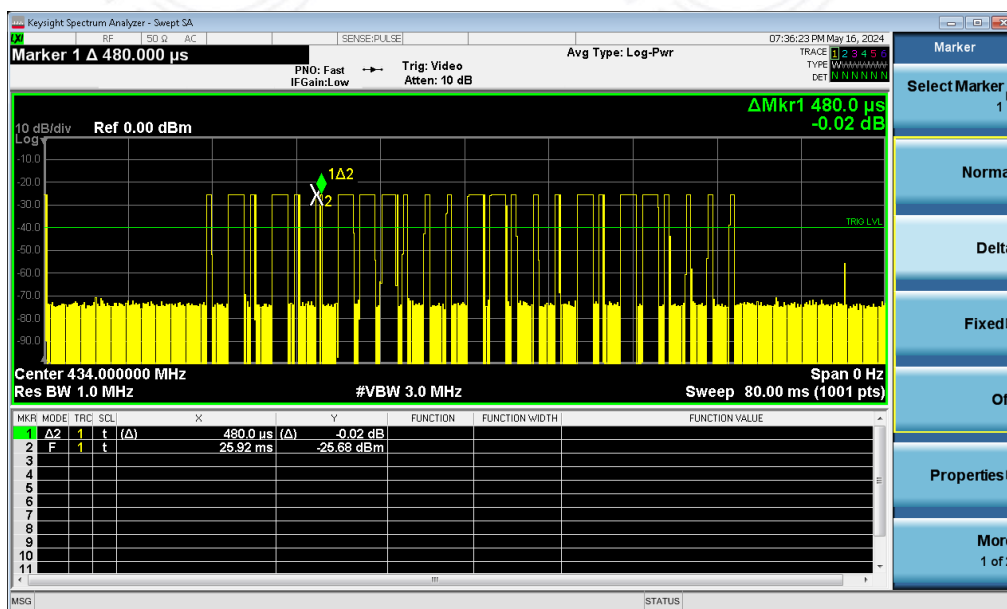


Ton



TXon1=10*1.44ms





TXon2=15*0.48ms



10.4 Field strength of the Fundamental signal

| No. | Freq. [MHz] | Reading [dBμV] | Factor [dB/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity | Detector |
|-----|----------------|-------------------|------------------|-------------------|-------------------|----------------|------------|----------|
| 1 | 434.0651 | 76.05 | -14.55 | 61.50 | 100.80 | -39.30 | Horizontal | PK |
| 2 | 434.0650 | 67.08 | -14.55 | 52.53 | 100.80 | -48.27 | Vertical | PK |

Note: Level=Reading+Factor

| No. | Freq. [MHz] | Reading [dBμV] | Factor [dB/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity | Detector |
|-----|----------------|-------------------|------------------|-------------------|-------------------|----------------|------------|----------|
| 1 | 869.1302 | 56.40 | -8.00 | 48.40 | 80.90 | -32.50 | Horizontal | PK |
| 2 | 869.1302 | 58.40 | -8.00 | 50.40 | 80.90 | -30.50 | Vertical | PK |

Note: Level=Reading+Factor

| No. | Freq. [MHz] | PKLevel [dBμV/m] | DCCF [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity | Detector |
|-----|----------------|---------------------|--------------|-------------------|-------------------|----------------|------------|----------|
| 1 | 434.0651 | 61.5 | -9.64 | 51.86 | 80.85 | -28.99 | Horizontal | AV |
| 2 | 434.0651 | 52.53 | -9.64 | 42.89 | 80.85 | -37.96 | Vertical | AV |

Note: Level=PKLevel+DCCF

| No. | Freq. [MHz] | PKLevel [dBμV/m] | DCCF [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity | Detector |
|-----|----------------|---------------------|--------------|-------------------|-------------------|----------------|------------|----------|
| 1 | 869.1302 | 48.4 | -9.64 | 38.76 | 60.85 | -22.09 | Horizontal | AV |
| 2 | 869.1302 | 50.4 | -9.64 | 40.76 | 60.85 | -20.09 | Vertical | AV |

Note: Level= PKLevel+DCCF

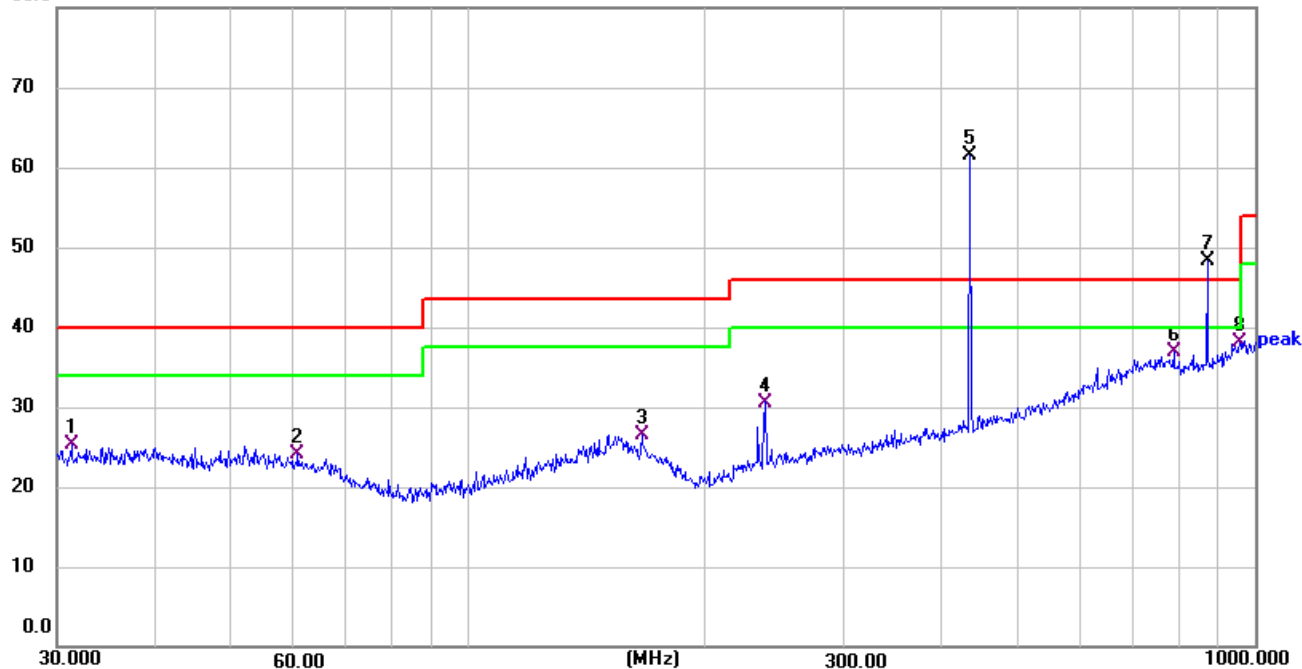


10.5 Radiation Spurious Emission

Test Antenna Horizontal (30MHz to 1GHz)

Level = Reading + Factor

80.0 dBuV/m

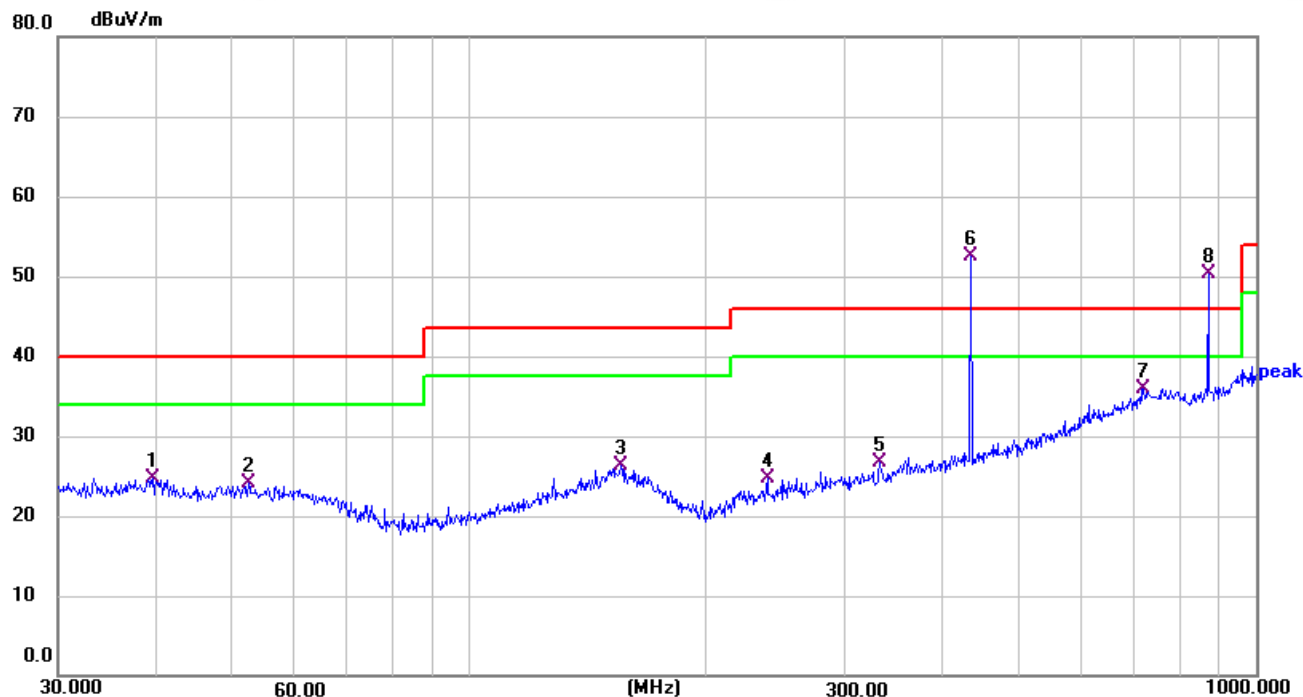


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1 | 31.2893 | 43.26 | -17.91 | 25.35 | 40.00 | -14.65 | QP | 100 | 360 | P | |
| 2 | 60.7044 | 42.25 | -18.20 | 24.05 | 40.00 | -15.95 | QP | 100 | 360 | P | |
| 3 | 166.0680 | 44.41 | -17.86 | 26.55 | 43.50 | -16.95 | QP | 100 | 360 | P | |
| 4 | 238.3102 | 49.78 | -19.18 | 30.60 | 46.00 | -15.40 | QP | 100 | 360 | P | |
| 5 * | 434.0651 | 76.05 | -14.55 | 61.50 | -- | -- | -- | -- | -- | -- | |
| 6 | 787.8513 | 45.55 | -8.71 | 36.84 | 46.00 | -9.16 | QP | 100 | 360 | P | |
| 7 X | 869.1302 | 56.40 | -8.00 | 48.40 | -- | -- | -- | -- | -- | -- | |
| 8 | 955.4381 | 44.94 | -6.91 | 38.03 | 46.00 | -7.97 | QP | 100 | 360 | P | |



Test Antenna Vertical (30MHz to 1GHz)

Level = Reading + Factor



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1 | 39.5757 | 41.64 | -16.93 | 24.71 | 40.00 | -15.29 | QP | 100 | 360 | P | |
| 2 | 52.3912 | 41.75 | -17.74 | 24.01 | 40.00 | -15.99 | QP | 100 | 360 | P | |
| 3 | 155.9101 | 43.41 | -17.15 | 26.26 | 43.50 | -17.24 | QP | 100 | 360 | P | |
| 4 | 239.1472 | 43.92 | -19.14 | 24.78 | 46.00 | -21.22 | QP | 100 | 360 | P | |
| 5 | 332.5187 | 43.52 | -16.73 | 26.79 | 46.00 | -19.21 | QP | 100 | 360 | P | |
| 6 * | 434.0651 | 67.08 | -14.55 | 52.53 | -- | -- | -- | -- | -- | -- | |
| 7 | 719.1995 | 45.01 | -9.19 | 35.82 | 46.00 | -10.18 | QP | 100 | 360 | P | |
| 8 X | 869.1302 | 58.40 | -8.00 | 50.40 | -- | -- | -- | -- | -- | -- | |



Test Antenna Horizontal Above 1GHz

| No. | Frequency (MHz) | Reading (dBuv) | Factor (dB/m) | Level (dBuv/m) | Limit (dBuv/m) | Margin(dB) | Detector | P/F |
|-----|-----------------|----------------|---------------|----------------|----------------|------------|----------|-----|
| 1 | 2913.684 | 70.15 | -30.50 | 39.65 | 74.00 | -34.35 | peak | P |
| 2 | 4278.018 | 68.49 | -29.56 | 38.93 | 74.00 | -35.07 | peak | P |
| 3 | 6085.155 | 64.25 | -26.15 | 38.10 | 74.00 | -35.90 | peak | P |
| 4 | 8646.159 | 69.22 | -24.24 | 44.98 | 74.00 | -29.02 | peak | P |
| 5 | 11047.266 | 67.07 | -24.37 | 42.70 | 74.00 | -31.30 | peak | P |
| 6 | 14217.514 | 69.97 | -21.52 | 48.45 | 74.00 | -25.55 | peak | P |

Test Antenna Vertical Above 1GHz

| No. | Frequency (MHz) | Reading (dBuv) | Factor (dB/m) | Level (dBuv/m) | Limit (dBuv/m) | Margin(dB) | Detector | P/F |
|-----|-----------------|----------------|---------------|----------------|----------------|------------|----------|-----|
| 1 | 2972.957 | 67.06 | -28.94 | 38.12 | 74.00 | -35.88 | peak | P |
| 2 | 4313.894 | 69.60 | -28.88 | 40.72 | 74.00 | -33.28 | peak | P |
| 3 | 6354.048 | 67.92 | -24.53 | 43.39 | 74.00 | -30.61 | peak | P |
| 4 | 8576.174 | 69.05 | -24.22 | 44.83 | 74.00 | -29.17 | peak | P |
| 5 | 11286.677 | 68.55 | -23.61 | 44.94 | 74.00 | -29.06 | peak | P |
| 6 | 14955.239 | 70.75 | -19.75 | 51.00 | 74.00 | -23.00 | peak | P |

- End of the Report -

