

Job No.: FRANK2018 #186

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: TX 2402MHz(8DPSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

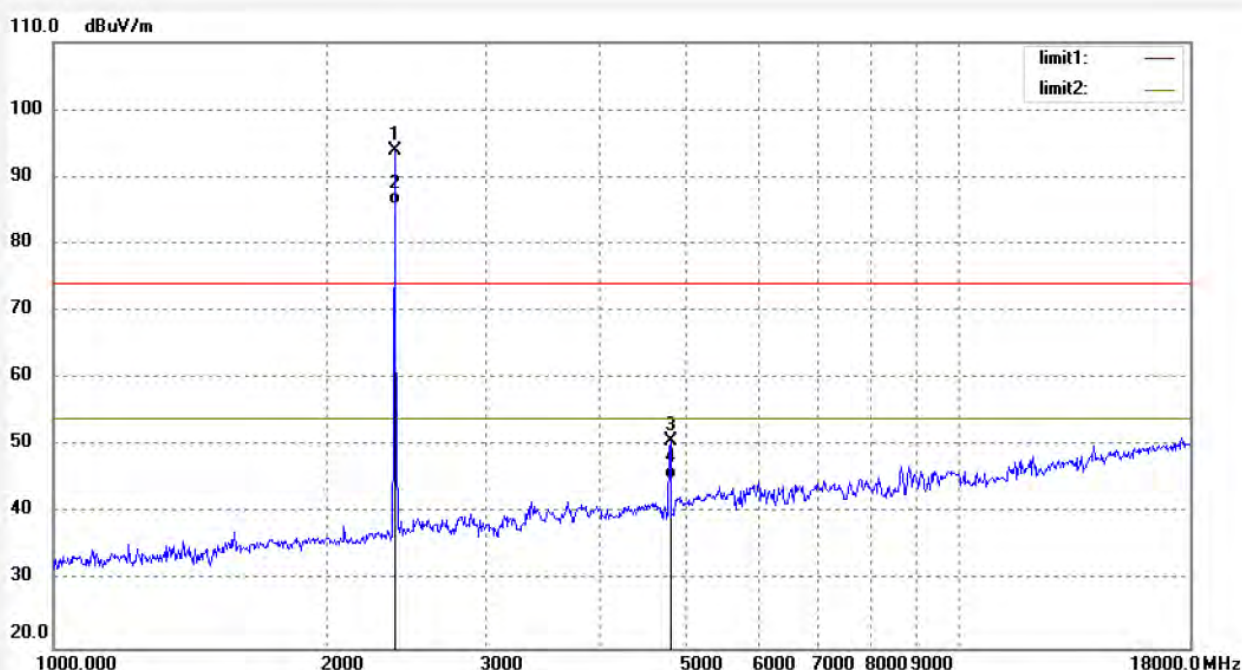
Date: 18/01/13/

Time: 15:29:14

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2402.119 | 98.20 | -4.37 | 93.83 | | | peak | 250 | 123 | |
| 2 | 2402.119 | 90.15 | -4.37 | 85.78 | | | AVG | 200 | 95 | |
| 3 | 4804.328 | 47.66 | 3.00 | 50.66 | 74.00 | -23.34 | peak | 200 | 52 | |
| 4 | 4804.328 | 42.15 | 3.00 | 45.15 | 54.00 | -8.85 | AVG | 250 | 164 | |



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Job No.: FRANK2018 #188

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: TX 2441MHz(8DPSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Horizontal

Power Source: AC 120V/60Hz

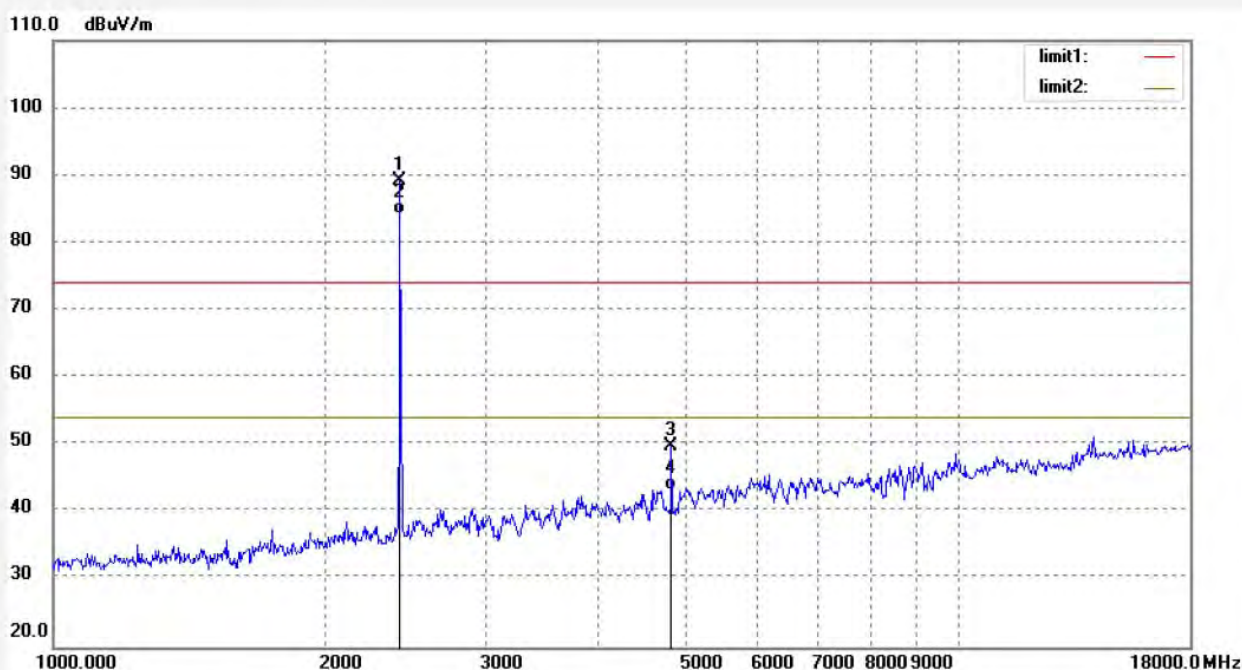
Date: 18/01/13/

Time: 15:31:46

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2441.121 | 93.39 | -4.20 | 89.19 | | | peak | 250 | 222 | |
| 2 | 2441.121 | 88.45 | -4.20 | 84.25 | | | AVG | 250 | 123 | |
| 3 | 4882.324 | 46.73 | 3.07 | 49.80 | 74.00 | -24.20 | peak | 250 | 94 | |
| 4 | 4882.324 | 40.15 | 3.07 | 43.22 | 54.00 | -10.78 | AVG | 250 | 191 | |

Job No.: FRANK2018 #187

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: TX 2441MHz(8DPSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

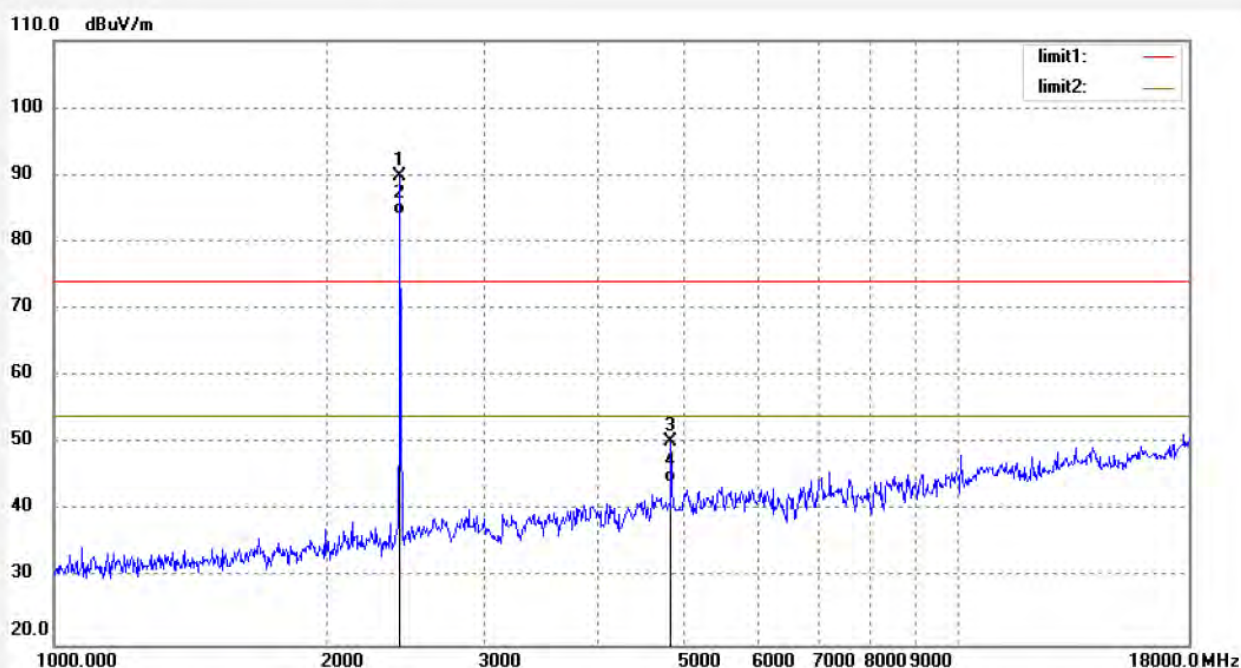
Date: 18/01/13/

Time: 15:30:04

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2441.121 | 94.03 | -4.20 | 89.83 | | | peak | 250 | 122 | |
| 2 | 2441.121 | 88.14 | -4.20 | 83.94 | | | AVG | 250 | 97 | |
| 3 | 4882.324 | 47.18 | 3.07 | 50.25 | 74.00 | -23.75 | peak | 250 | 26 | |
| 4 | 4882.324 | 41.15 | 3.07 | 44.22 | 54.00 | -9.78 | AVG | 200 | 159 | |



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Job No.: FRANK2018 #189

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: TX 2480MHz(8DPSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Horizontal

Power Source: AC 120V/60Hz

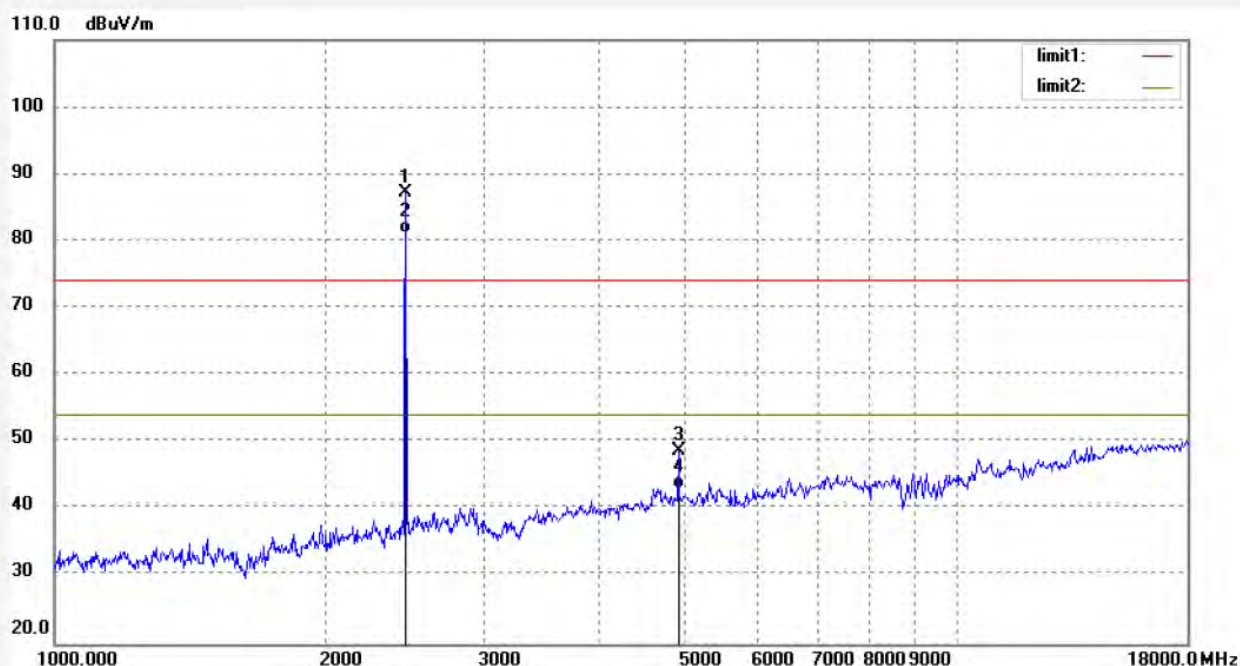
Date: 18/01/13/

Time: 15:33:21

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2480.034 | 91.15 | -4.04 | 87.11 | | | peak | 250 | 123 | |
| 2 | 2480.034 | 85.15 | -4.04 | 81.11 | | | AVG | 250 | 120 | |
| 3 | 4960.044 | 45.29 | 3.50 | 48.79 | 74.00 | -25.21 | peak | 250 | 48 | |
| 4 | 4960.044 | 39.45 | 3.50 | 42.95 | 54.00 | -11.05 | AVG | 250 | 156 | |



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Job No.: FRANK2018 #190

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: TX 2480MHz(8DPSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

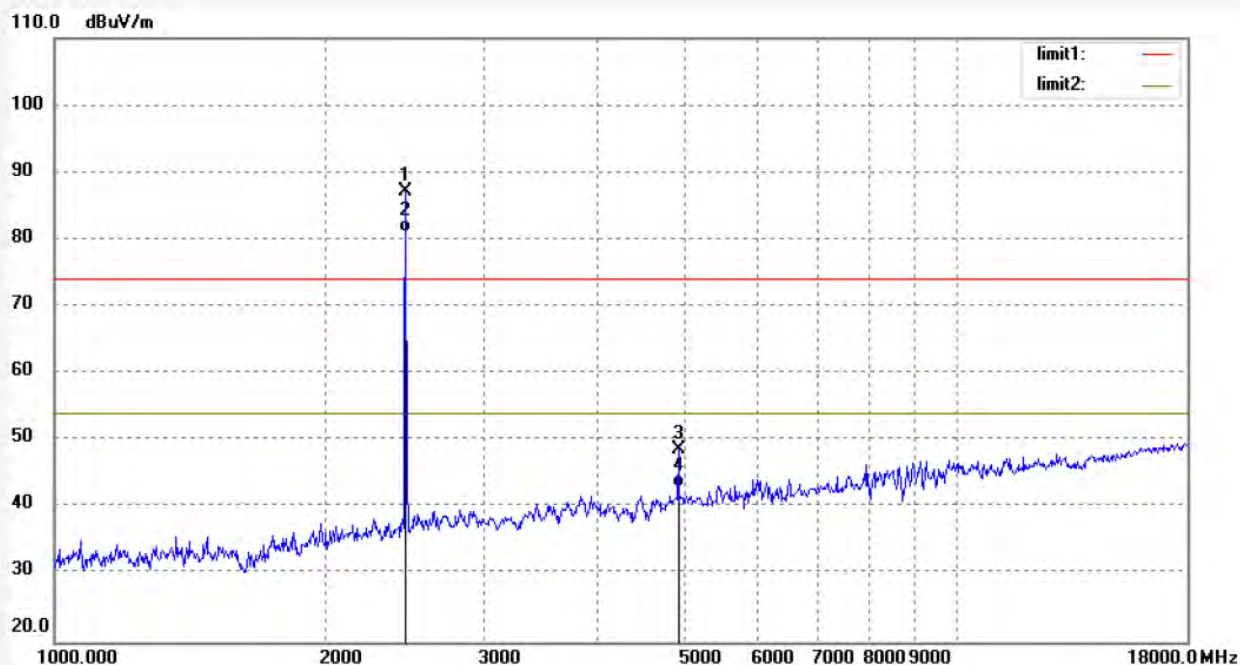
Date: 18/01/13/

Time: 15:33:28

Engineer Signature: Frank

Distance: 3m

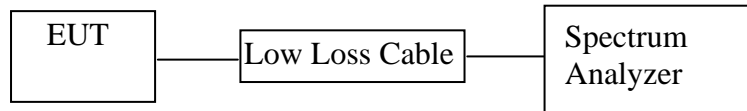
Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2480.034 | 91.15 | -4.04 | 87.11 | | | peak | 250 | 154 | |
| 2 | 2480.034 | 85.12 | -4.04 | 81.08 | | | AVG | 250 | 122 | |
| 3 | 4960.044 | 45.29 | 3.50 | 48.79 | 74.00 | -25.21 | peak | 250 | 97 | |
| 4 | 4960.044 | 39.45 | 3.50 | 42.95 | 54.00 | -11.05 | AVG | 250 | 215 | |

11.BAND EDGE COMPLIANCE TEST

11.1.Block Diagram of Test Setup



(EUT: Songbird II Radio)

11.2.The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

11.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

11.4.Operating Condition of EUT

11.4.1.Setup the EUT and simulator as shown as Section 11.1.

11.4.2.Turn on the power of all equipment.

11.4.3.Let the EUT work in TX (Hopping off, Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

11.5. Test Procedure

11.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

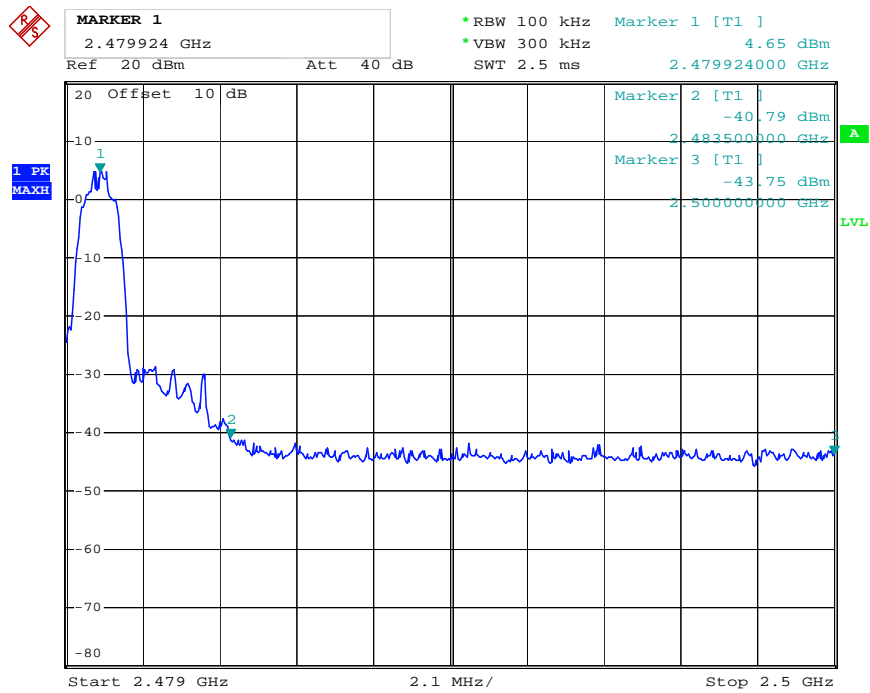
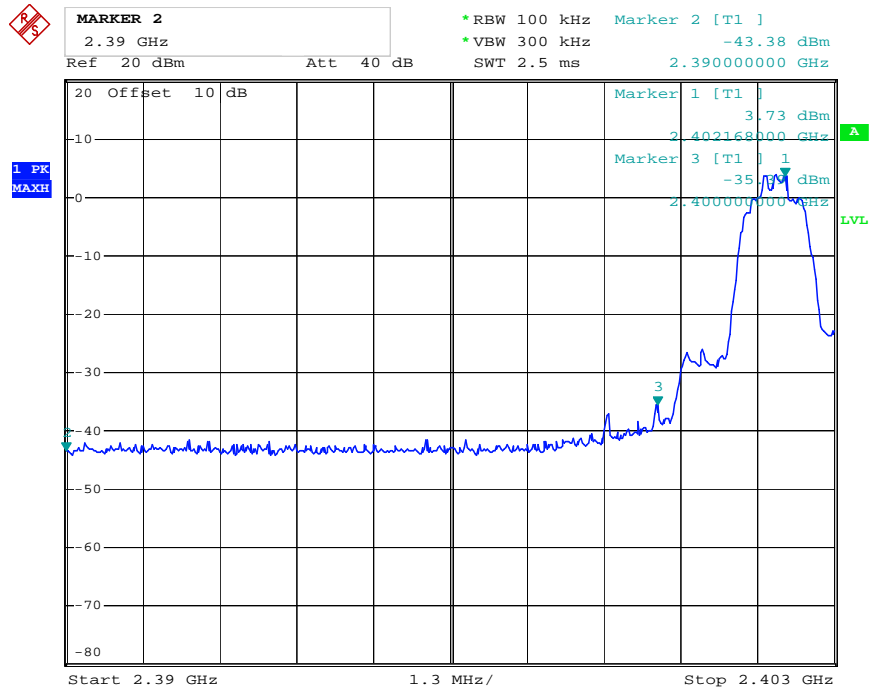
11.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz with convenient frequency span including 100 kHz bandwidth from band edge.

11.5.3. The band edges was measured and recorded.

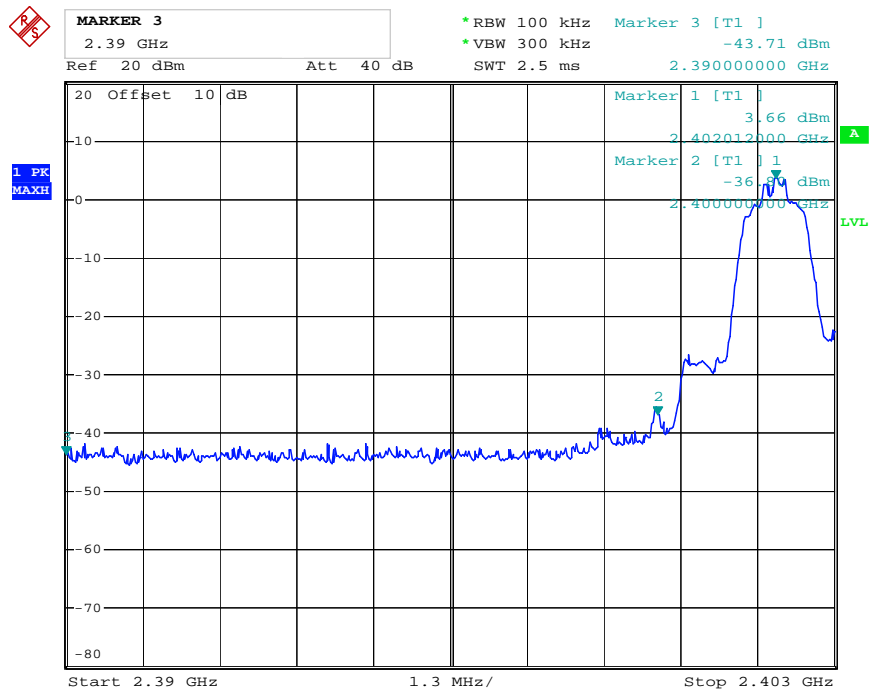
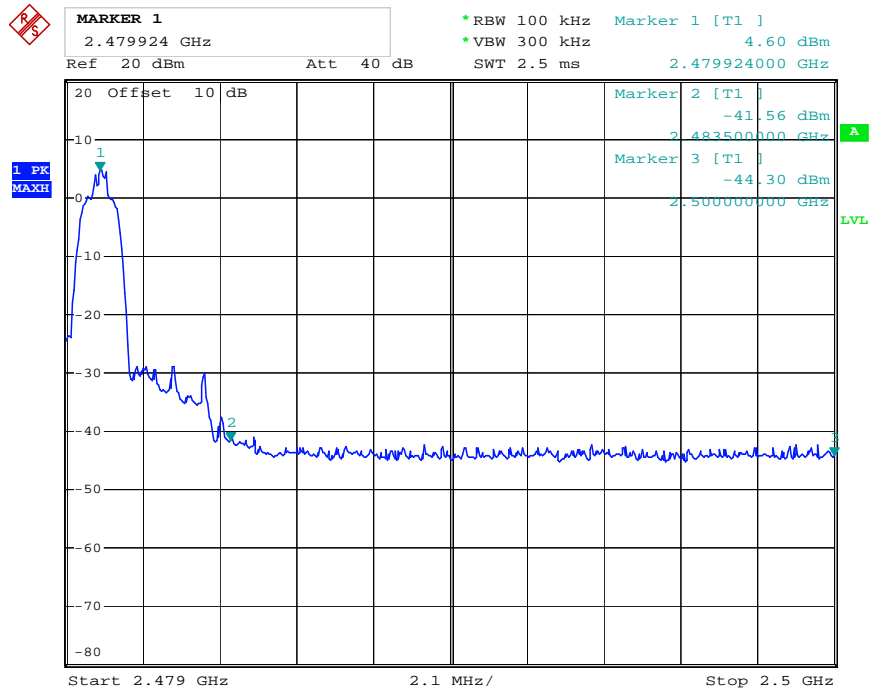
11.6. Test Result

| Frequency (MHz) | Result of Band Edge (dBc) | Limit of Band Edge (dBc) |
|--------------------|------------------------------|-----------------------------|
| GFSK | | |
| 2400.00 | 31.66 | > 20dBc |
| 2483.50 | 36.14 | > 20dBc |
| Π/4 DQPSK Mode | | |
| 2400.00 | 33.14 | > 20dBc |
| 2483.50 | 36.96 | > 20dBc |
| 8DPSK | | |
| 2400.00 | 33.33 | > 20dBc |
| 2483.50 | 35.04 | > 20dBc |

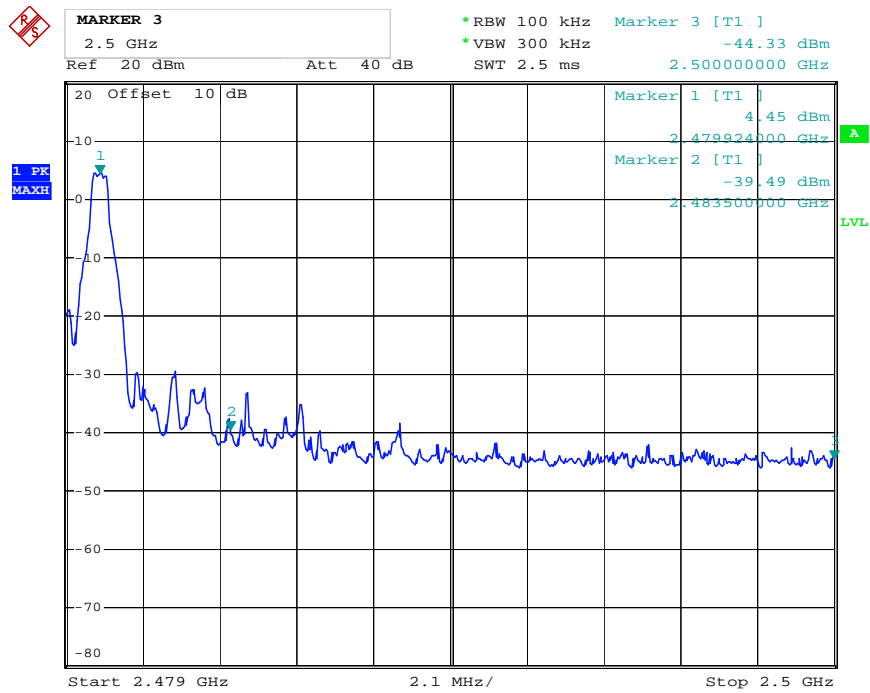
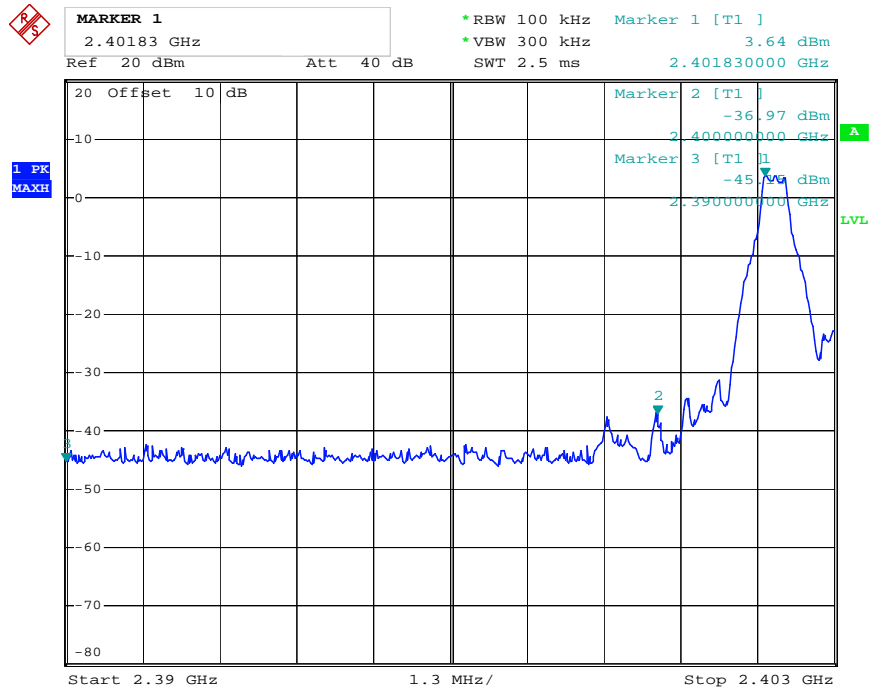
GFSK



Π/4 DQPSK Mode



8DPSK



Radiated Band Edge Result

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

3. Display the measurement of peak values.

Test Procedure:

The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

Let the EUT work in TX (Hopping off, Hopping on) modes measure it.

We select 2402MHz, 2480MHz TX frequency to transmit(Hopping off mode).

We select 2402-2480MHz TX frequency to transmit(Hopping on mode).

During the radiated emission test, the spectrum analyzer was set with the following configurations:

- 1.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
- 2.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- 3.All modes of operation were investigated and the worst-case emissions are reported.

Non-hopping mode



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Job No.: FRANK2018 #196

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: TX 2402MHz(GFSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Horizontal

Power Source: AC 120V/60Hz

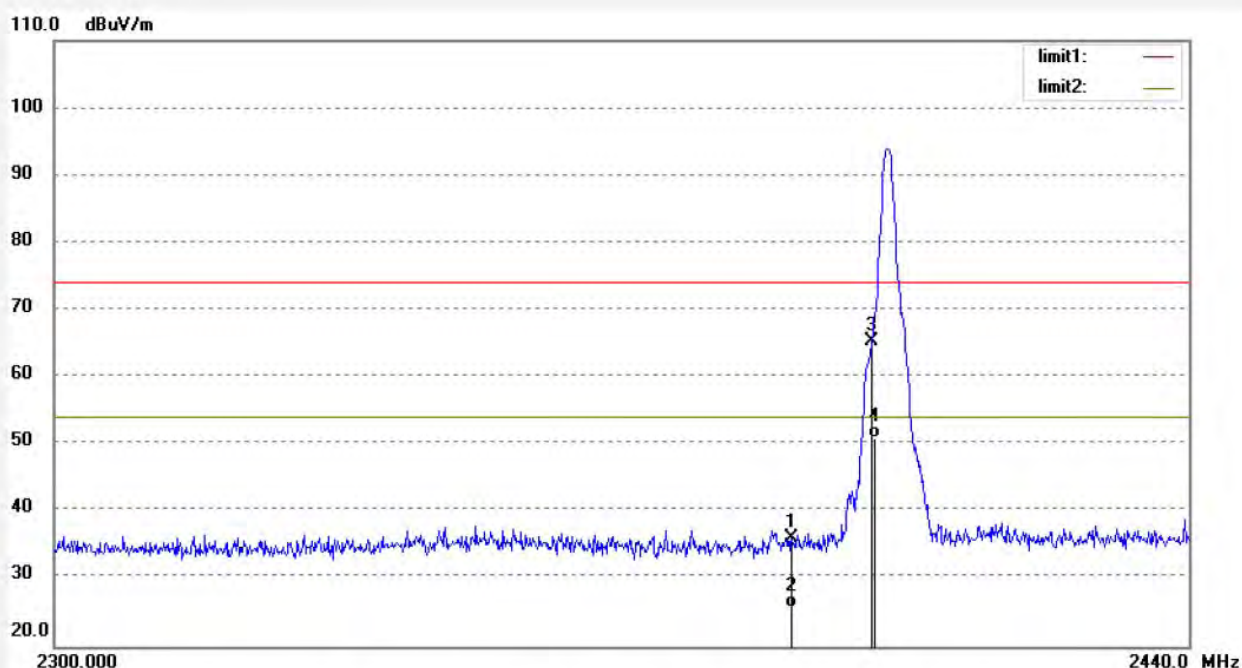
Date: 18/01/13/

Time: 15:42:28

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1 | 2390.000 | 40.31 | -4.32 | 35.99 | 74.00 | -38.01 | peak | 250 | 132 | |
| 2 | 2390.000 | 30.12 | -4.32 | 25.80 | 54.00 | -28.20 | AVG | 250 | 185 | |
| 3 | 2400.000 | 69.53 | -4.27 | 65.26 | 74.00 | -8.74 | peak | 250 | 58 | |
| 4 | 2400.000 | 55.15 | -4.27 | 50.88 | 54.00 | -3.12 | AVG | 250 | 241 | |



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Job No.: FRANK2018 #195

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: TX 2402MHz(GFSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

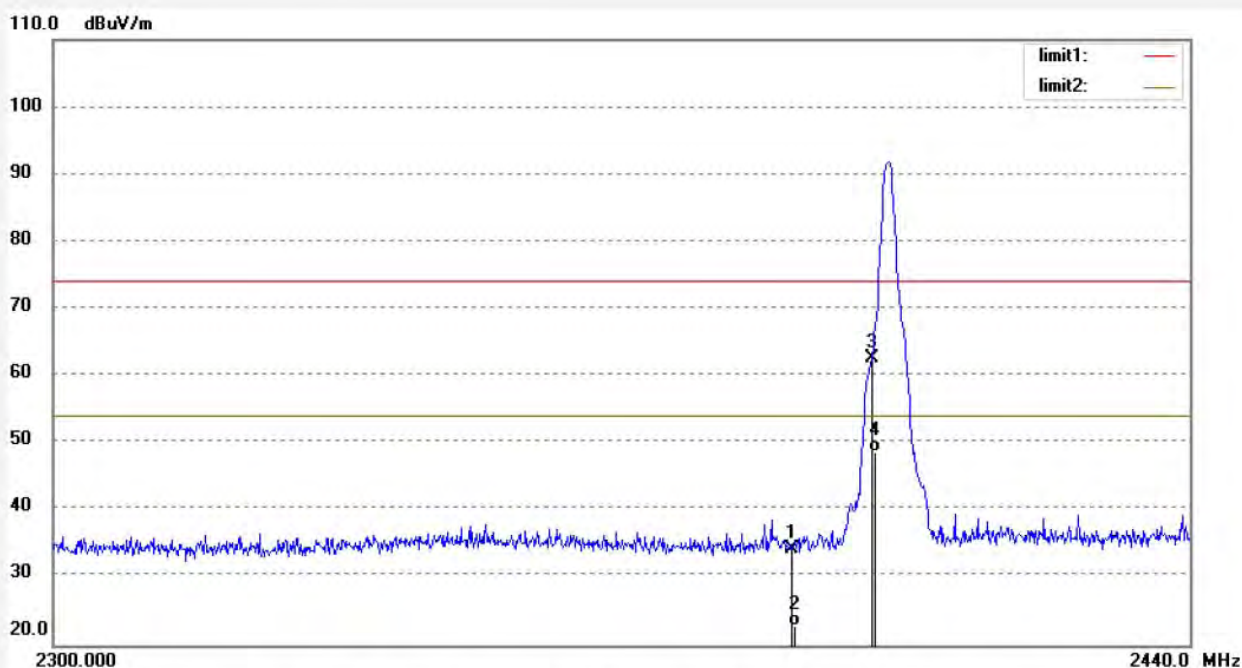
Date: 18/01/13/

Time: 15:41:35

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2390.000 | 38.70 | -4.32 | 34.38 | 74.00 | -39.62 | peak | 250 | 132 | |
| 2 | 2390.000 | 27.15 | -4.32 | 22.83 | 54.00 | -31.17 | AVG | 250 | 97 | |
| 3 | 2400.000 | 66.96 | -4.27 | 62.69 | 74.00 | -11.31 | peak | 250 | 45 | |
| 4 | 2400.000 | 53.00 | -4.27 | 48.73 | 54.00 | -5.27 | AVG | 250 | 102 | |

Job No.: FRANK2018 #197

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: TX 2480MHz(GFSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Horizontal

Power Source: AC 120V/60Hz

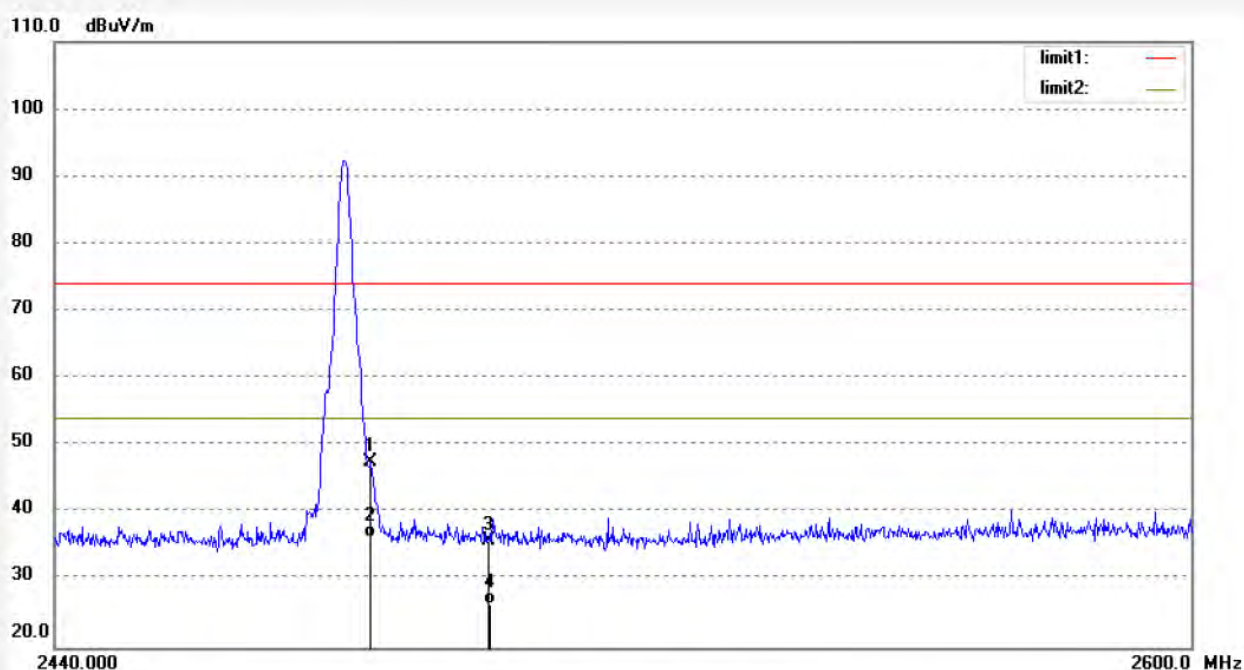
Date: 18/01/13/

Time: 15:43:51

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2483.500 | 51.44 | -3.89 | 47.55 | 74.00 | -26.45 | peak | 250 | 194 | |
| 2 | 2483.500 | 40.30 | -3.89 | 36.41 | 54.00 | -17.59 | AVG | 250 | 259 | |
| 3 | 2500.000 | 39.66 | -3.81 | 35.85 | 74.00 | -38.15 | peak | 250 | 94 | |
| 4 | 2500.000 | 30.12 | -3.81 | 26.31 | 54.00 | -27.69 | AVG | 250 | 267 | |

Job No.: FRANK2018 #198

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: TX 2480MHz(GFSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

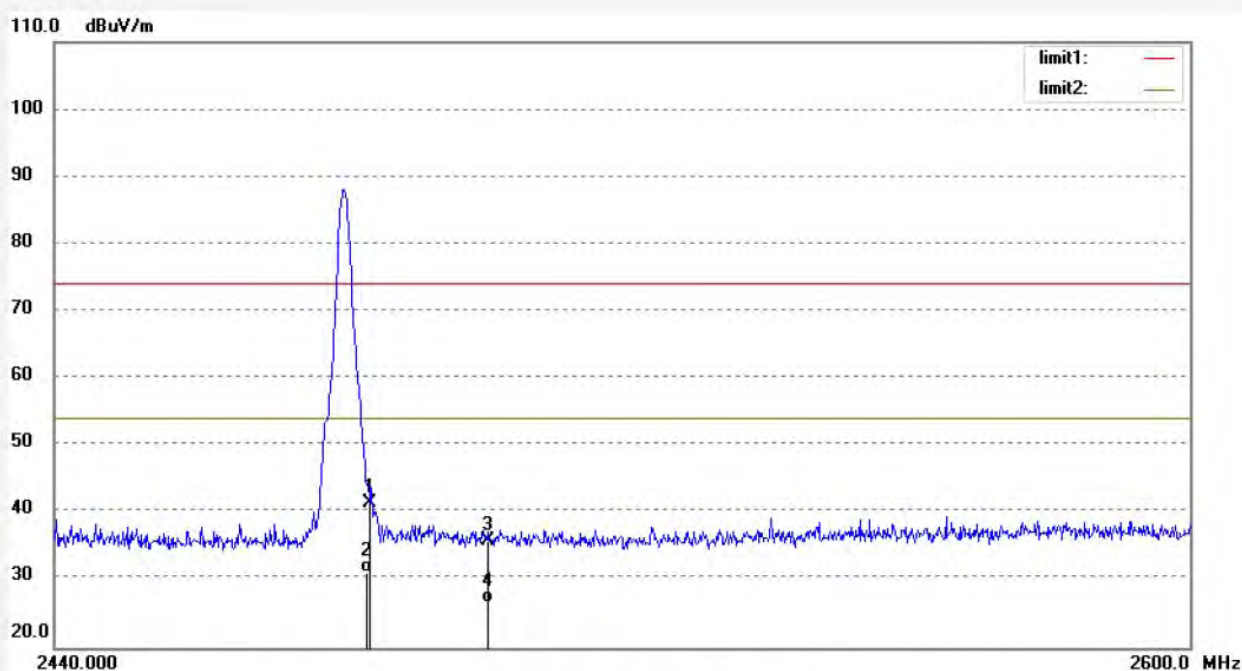
Date: 18/01/13/

Time: 15:44:56

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2483.500 | 45.27 | -3.89 | 41.38 | 74.00 | -32.62 | peak | 250 | 121 | |
| 2 | 2483.500 | 35.12 | -3.89 | 31.23 | 54.00 | -22.77 | AVG | 250 | 321 | |
| 3 | 2500.000 | 39.66 | -3.81 | 35.85 | 74.00 | -38.15 | peak | 250 | 94 | |
| 4 | 2500.000 | 30.45 | -3.81 | 26.64 | 54.00 | -27.36 | AVG | 250 | 204 | |

Job No.: FRANK2018 #193

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: TX 2402MHz(□/4DQPSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Horizontal

Power Source: AC 120V/60Hz

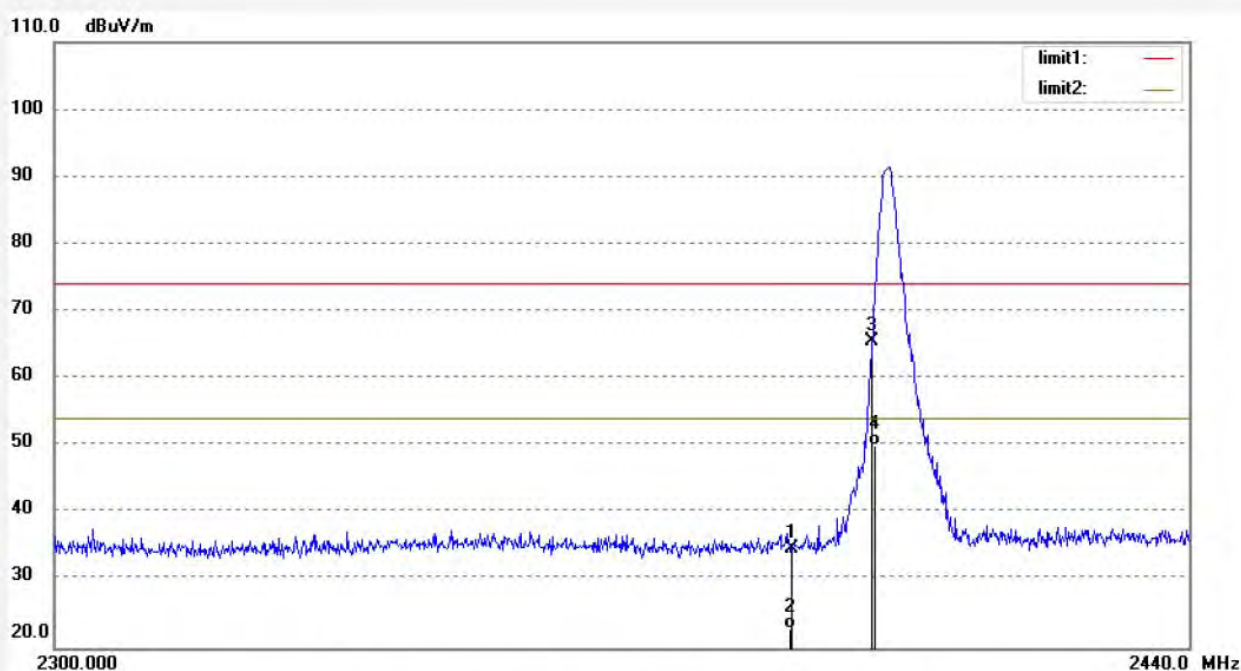
Date: 18/01/13/

Time: 15:38:58

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1 | 2390.000 | 38.95 | -4.32 | 34.63 | 74.00 | -39.37 | peak | 250 | 210 | |
| 2 | 2390.000 | 27.15 | -4.32 | 22.83 | 54.00 | -31.17 | AVG | 250 | 254 | |
| 3 | 2400.000 | 69.84 | -4.27 | 65.57 | 74.00 | -8.43 | peak | 250 | 108 | |
| 4 | 2400.000 | 54.23 | -4.27 | 49.96 | 54.00 | -4.04 | AVG | 250 | 121 | |

Job No.: FRANK2018 #194

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: TX 2402MHz(□/4DQPSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

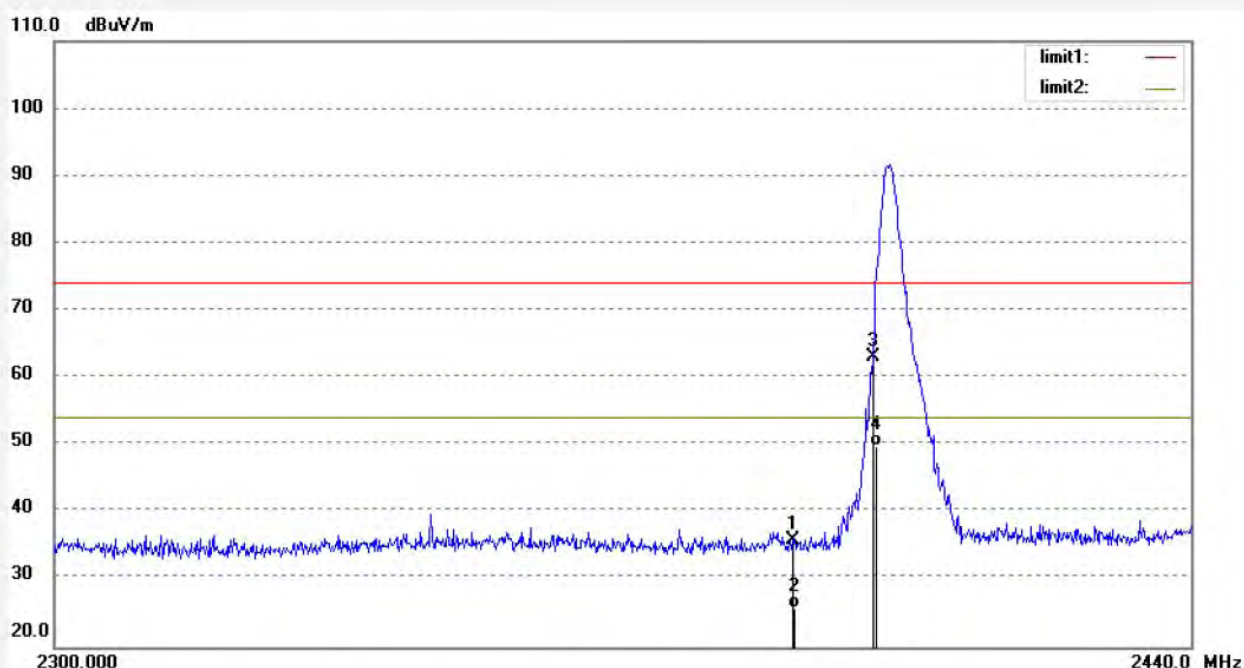
Date: 18/01/13/

Time: 15:39:52

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2390.000 | 40.11 | -4.32 | 35.79 | 74.00 | -38.21 | peak | 250 | 122 | |
| 2 | 2390.000 | 30.00 | -4.32 | 25.68 | 54.00 | -28.32 | AVG | 250 | 61 | |
| 3 | 2400.000 | 67.39 | -4.27 | 63.12 | 74.00 | -10.88 | peak | 250 | 109 | |
| 4 | 2400.000 | 54.00 | -4.27 | 49.73 | 54.00 | -4.27 | AVG | 250 | 232 | |



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Job No.: FRANK2018 #200

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: TX 2480MHz(Π/4DQPSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Horizontal

Power Source: AC 120V/60Hz

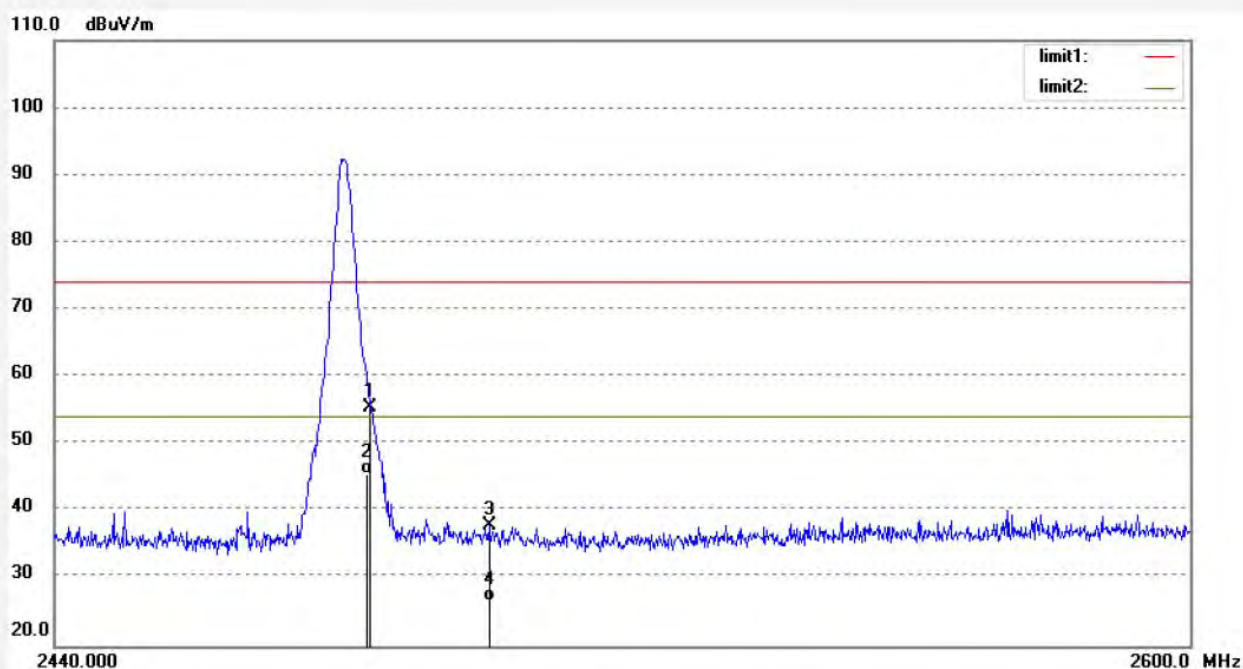
Date: 18/01/13/

Time: 15:47:14

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2483.500 | 59.29 | -3.89 | 55.40 | 74.00 | -18.60 | peak | 250 | 123 | |
| 2 | 2483.500 | 49.48 | -3.89 | 45.59 | 54.00 | -8.41 | AVG | 250 | 22 | |
| 3 | 2500.000 | 41.59 | -3.81 | 37.78 | 74.00 | -36.22 | peak | 250 | 167 | |
| 4 | 2500.000 | 30.48 | -3.81 | 26.67 | 54.00 | -27.33 | AVG | 250 | 154 | |



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Job No.: FRANK2018 #199

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: TX 2480MHz(□/4DQPSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

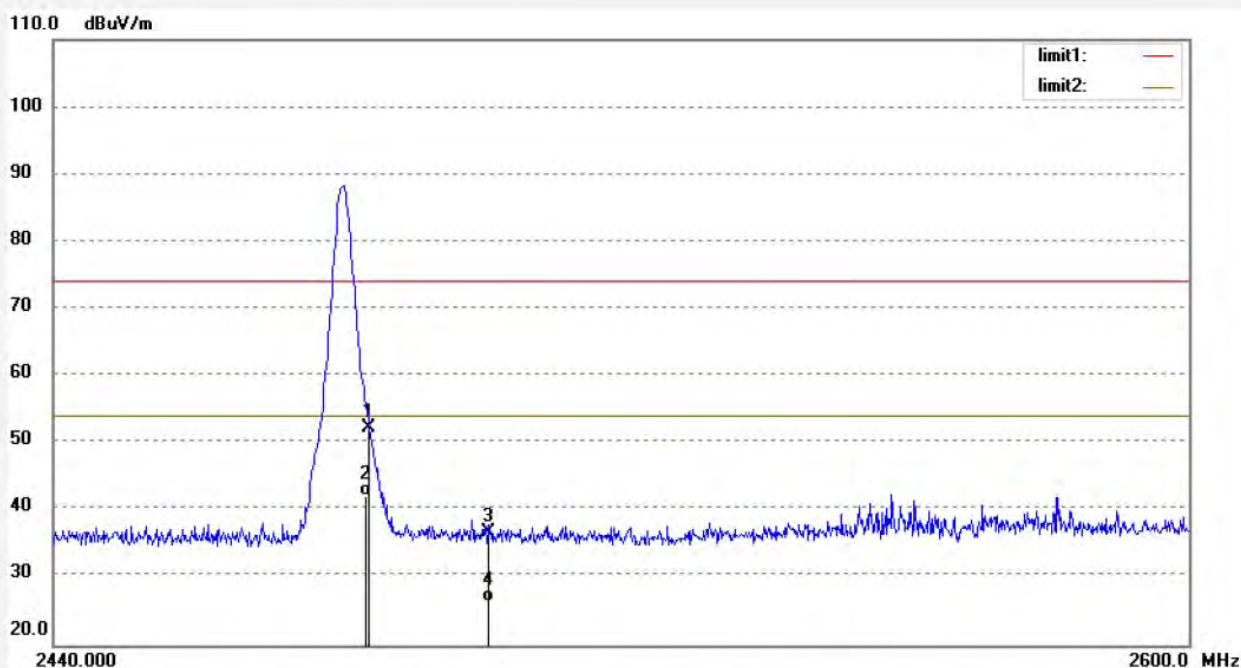
Date: 18/01/13/

Time: 15:46:19

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2483.500 | 56.27 | -3.89 | 52.38 | 74.00 | -21.62 | peak | 250 | 12 | |
| 2 | 2483.500 | 46.12 | -3.89 | 42.23 | 54.00 | -11.77 | AVG | 250 | 103 | |
| 3 | 2500.000 | 40.48 | -3.81 | 36.67 | 74.00 | -37.33 | peak | 250 | 57 | |
| 4 | 2500.000 | 30.12 | -3.81 | 26.31 | 54.00 | -27.69 | AVG | 200 | 124 | |

Job No.: FRANK2018 #192

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: TX 2402MHz(8DPSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Horizontal

Power Source: AC 120V/60Hz

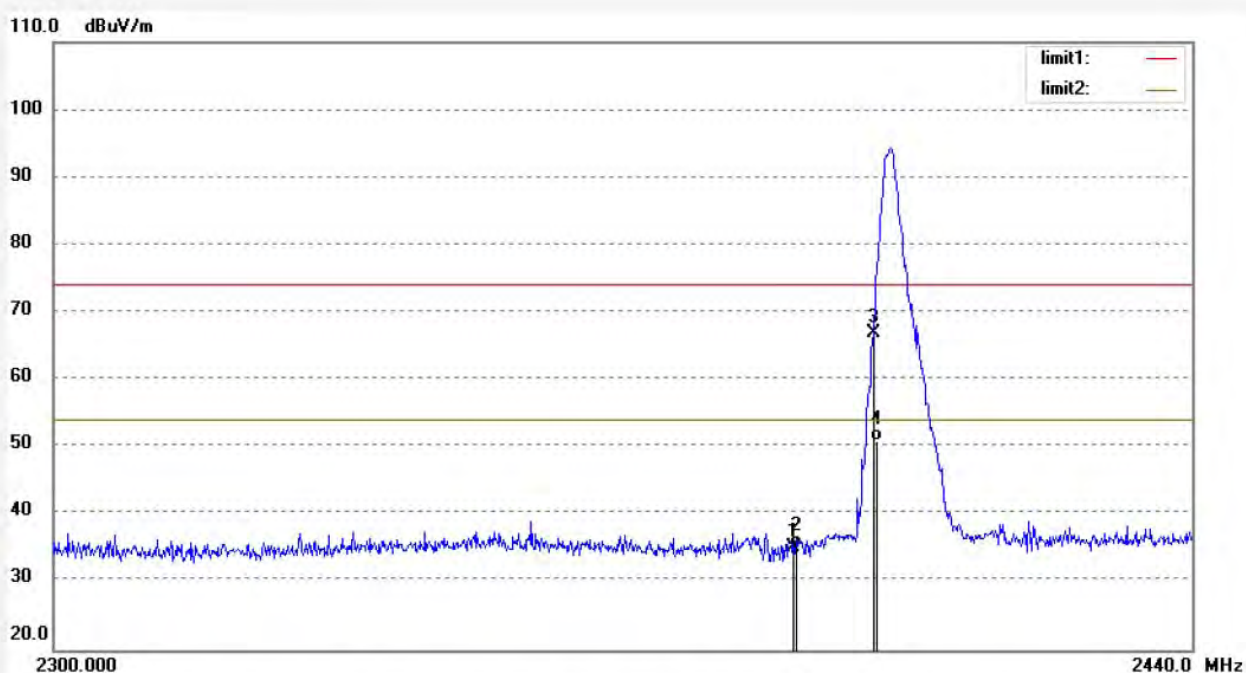
Date: 18/01/13/

Time: 15:37:54

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2390.000 | 39.40 | -4.32 | 35.08 | 74.00 | -38.92 | peak | 250 | 122 | |
| 2 | 2390.000 | 39.40 | -4.32 | 35.08 | 54.00 | -18.92 | AVG | 250 | 84 | |
| 3 | 2400.000 | 71.24 | -4.27 | 66.97 | 74.00 | -7.03 | peak | 250 | 211 | |
| 4 | 2400.000 | 55.12 | -4.27 | 50.85 | 54.00 | -3.15 | AVG | 250 | 100 | |

Job No.: FRANK2018 #191

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: TX 2402MHz(8DPSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

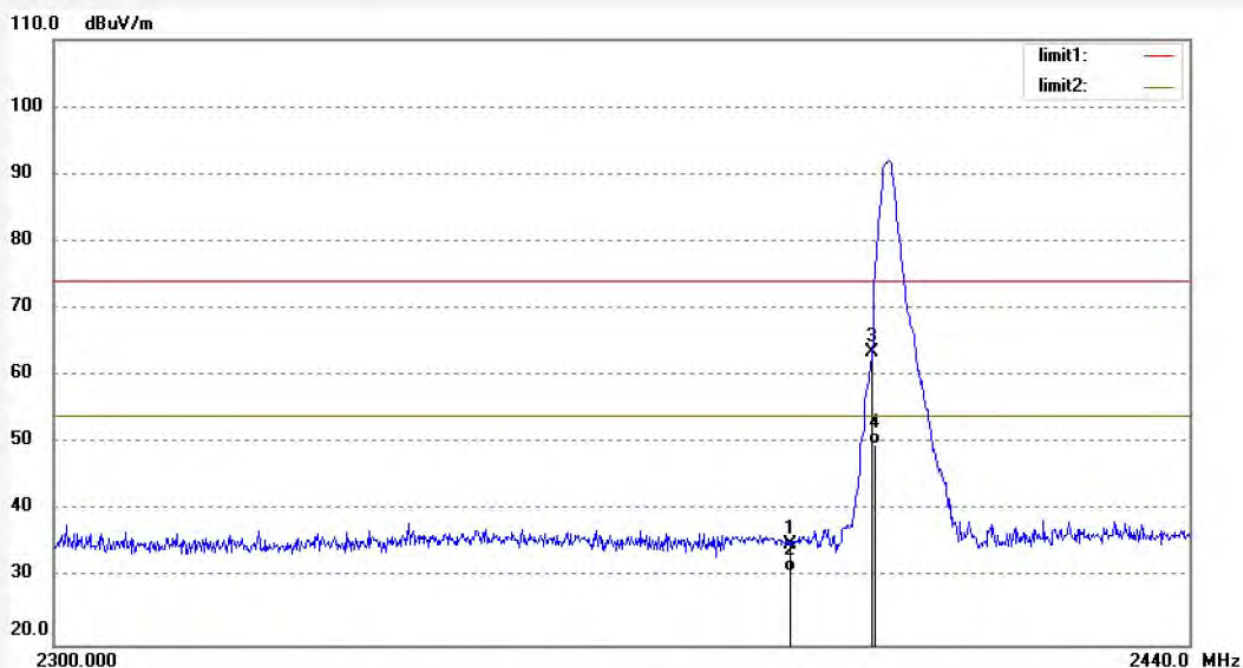
Date: 18/01/13/

Time: 15:36:28

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2390.000 | 39.31 | -4.32 | 34.99 | 74.00 | -39.01 | peak | 250 | 138 | |
| 2 | 2390.000 | 35.15 | -4.32 | 30.83 | 54.00 | -23.17 | AVG | 250 | 214 | |
| 3 | 2400.000 | 67.71 | -4.27 | 63.44 | 74.00 | -10.56 | peak | 250 | 59 | |
| 4 | 2400.000 | 54.01 | -4.27 | 49.74 | 54.00 | -4.26 | AVG | 250 | 211 | |

Job No.: FRANK2018 #201

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: TX 2480MHz(8DPSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Horizontal

Power Source: AC 120V/60Hz

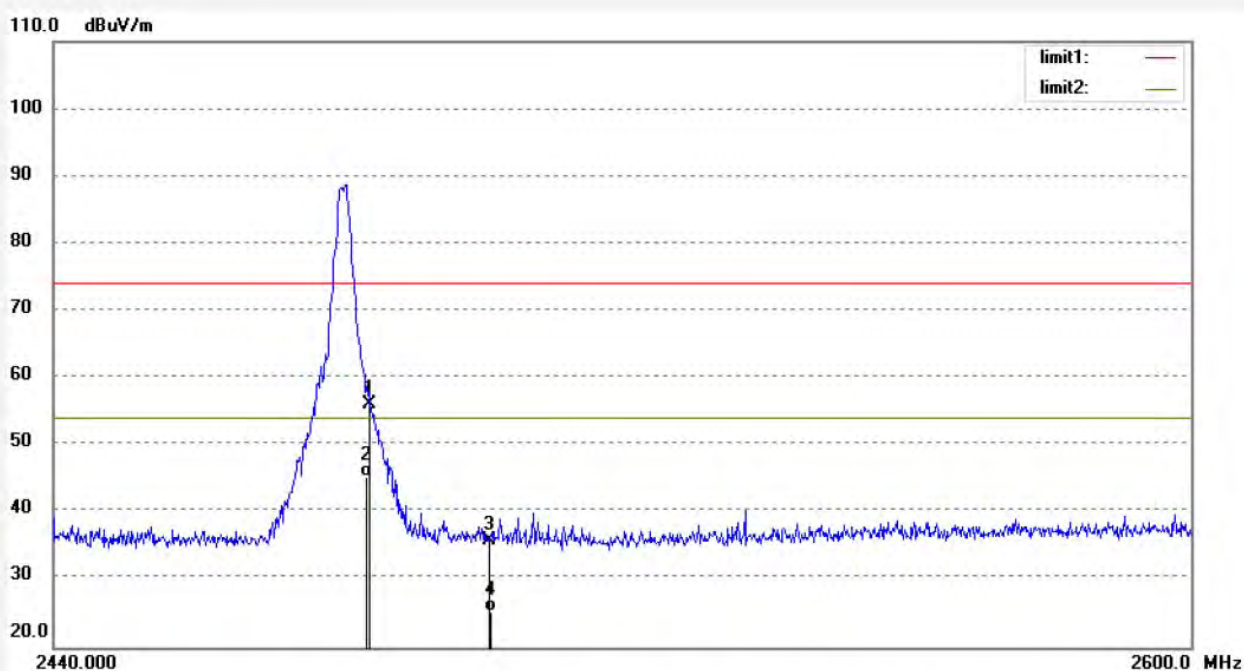
Date: 18/01/13/

Time: 15:48:28

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2483.500 | 59.97 | -3.89 | 56.08 | 74.00 | -17.92 | peak | 250 | 184 | |
| 2 | 2483.500 | 49.15 | -3.89 | 45.26 | 54.00 | -8.74 | AVG | 250 | 19 | |
| 3 | 2500.000 | 39.62 | -3.81 | 35.81 | 74.00 | -38.19 | peak | 250 | 201 | |
| 4 | 2500.000 | 29.15 | -3.81 | 25.34 | 54.00 | -28.66 | AVG | 250 | 215 | |

Job No.: FRANK2018 #202

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: TX 2480MHz(8DPSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

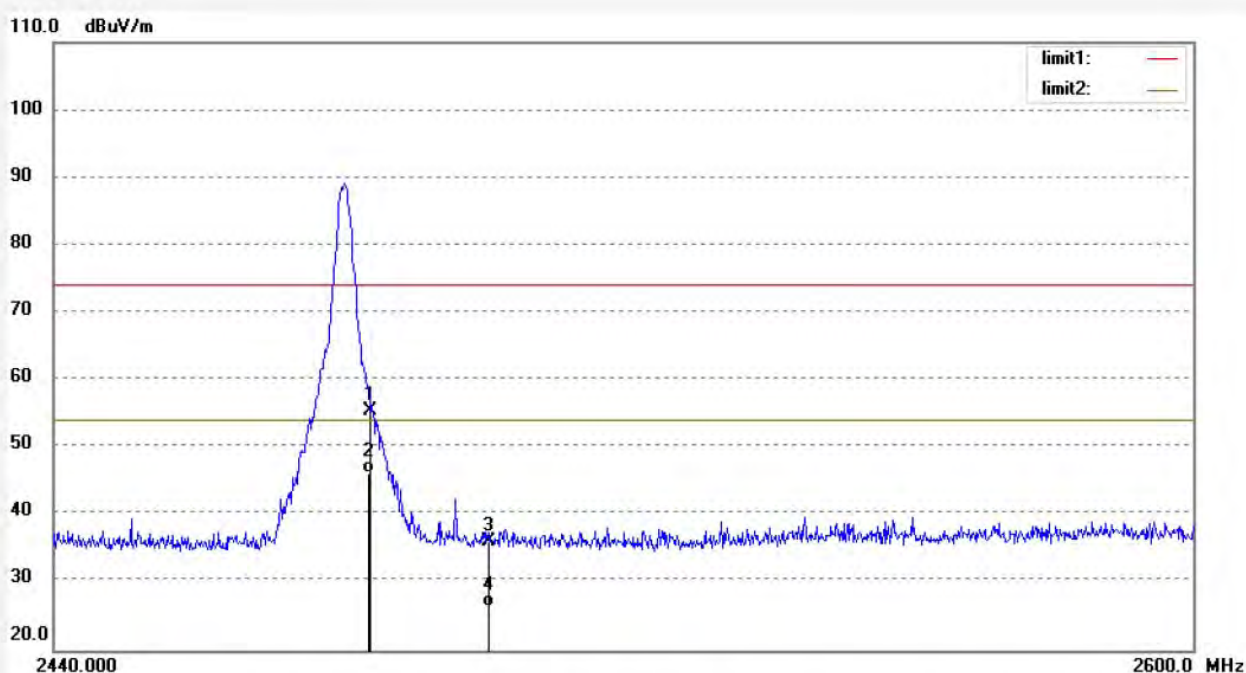
Date: 18/01/13/

Time: 15:49:32

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2483.500 | 59.28 | -3.89 | 55.39 | 74.00 | -18.61 | peak | 250 | 123 | |
| 2 | 2483.500 | 50.12 | -3.89 | 46.23 | 54.00 | -7.77 | AVG | 250 | 225 | |
| 3 | 2500.000 | 39.96 | -3.81 | 36.15 | 74.00 | -37.85 | peak | 250 | 164 | |
| 4 | 2500.000 | 30.15 | -3.81 | 26.34 | 54.00 | -27.66 | AVG | 250 | 92 | |

Hopping mode



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Fax:+86-0755-26503396

Job No.: FRANK2018 #204

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: HOPPING(GFSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Horizontal

Power Source: AC 120V/60Hz

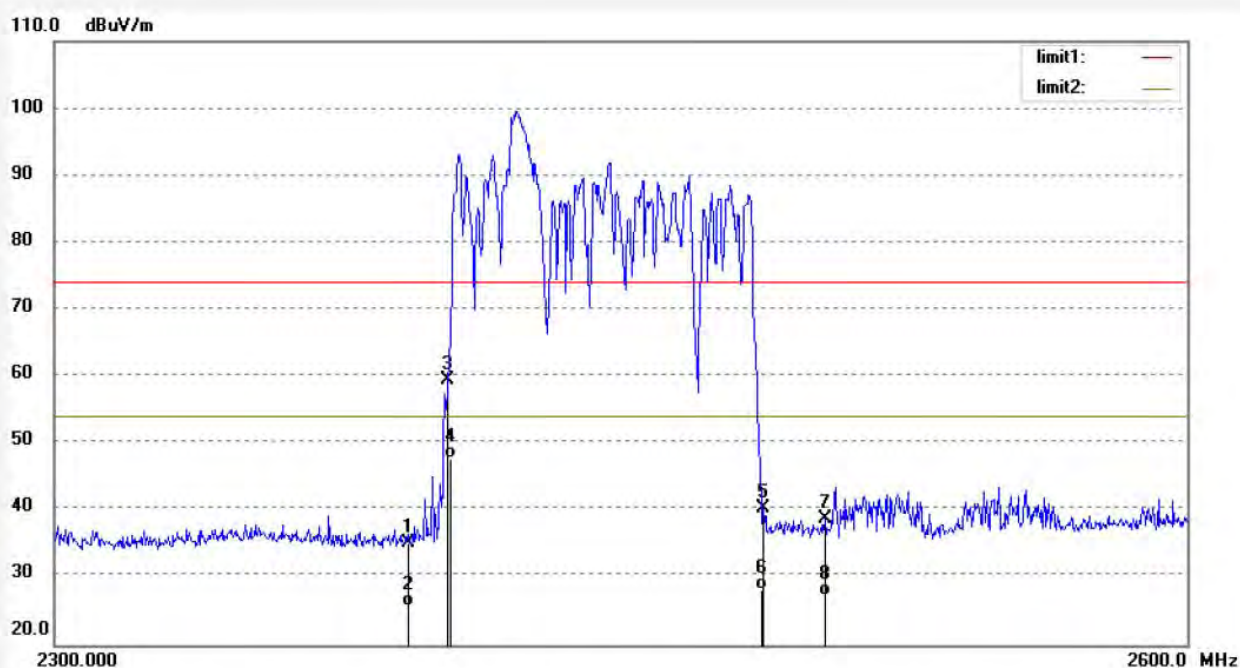
Date: 18/01/13/

Time: 15:55:13

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2390.000 | 39.40 | -4.32 | 35.08 | 74.00 | -38.92 | peak | 200 | 138 | |
| 2 | 2390.000 | 30.12 | -4.32 | 25.80 | 54.00 | -28.20 | AVG | 200 | 94 | |
| 3 | 2400.000 | 63.70 | -4.27 | 59.43 | 74.00 | -14.57 | peak | 200 | 251 | |
| 4 | 2400.000 | 52.12 | -4.27 | 47.85 | 54.00 | -6.15 | AVG | 200 | 103 | |
| 5 | 2483.500 | 44.19 | -3.89 | 40.30 | 74.00 | -33.70 | peak | 250 | 158 | |
| 6 | 2483.500 | 32.12 | -3.89 | 28.23 | 54.00 | -25.77 | AVG | 250 | 149 | |
| 7 | 2500.000 | 42.57 | -3.81 | 38.76 | 74.00 | -35.24 | peak | 250 | 201 | |
| 8 | 2500.000 | 31.15 | -3.81 | 27.34 | 54.00 | -26.66 | AVG | 200 | 321 | |

Job No.: FRANK2018 #203

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: HOPPING(GFSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

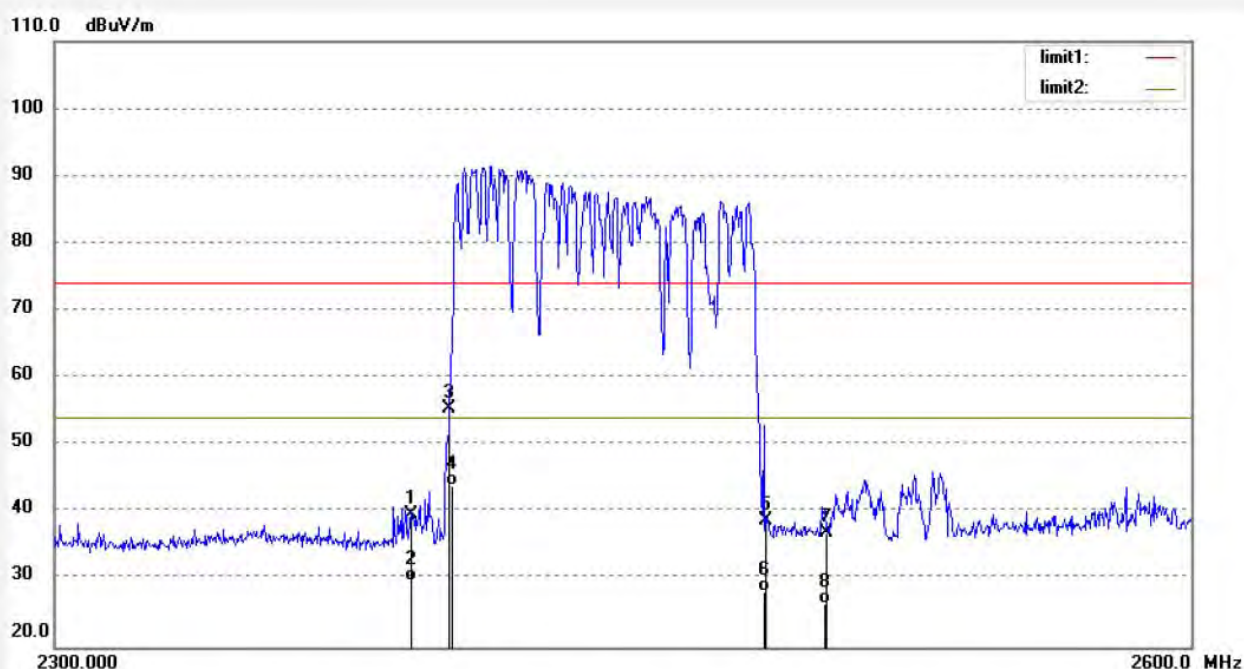
Date: 18/01/13/

Time: 15:52:55

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2390.000 | 43.95 | -4.32 | 39.63 | 74.00 | -34.37 | peak | 250 | 121 | |
| 2 | 2390.000 | 34.12 | -4.32 | 29.80 | 54.00 | -24.20 | AVG | 250 | 13 | |
| 3 | 2400.000 | 59.68 | -4.27 | 55.41 | 74.00 | -18.59 | peak | 250 | 101 | |
| 4 | 2400.000 | 48.15 | -4.27 | 43.88 | 54.00 | -10.12 | AVG | 200 | 127 | |
| 5 | 2483.500 | 42.62 | -3.89 | 38.73 | 74.00 | -35.27 | peak | 200 | 195 | |
| 6 | 2483.500 | 32.15 | -3.89 | 28.26 | 54.00 | -25.74 | AVG | 200 | 125 | |
| 7 | 2500.000 | 40.83 | -3.81 | 37.02 | 74.00 | -36.98 | peak | 200 | 111 | |
| 8 | 2500.000 | 30.12 | -3.81 | 26.31 | 54.00 | -27.69 | AVG | 250 | 320 | |

Job No.: FRANK2018 #205

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: HOPPING(Π/4DQPSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Horizontal

Power Source: AC 120V/60Hz

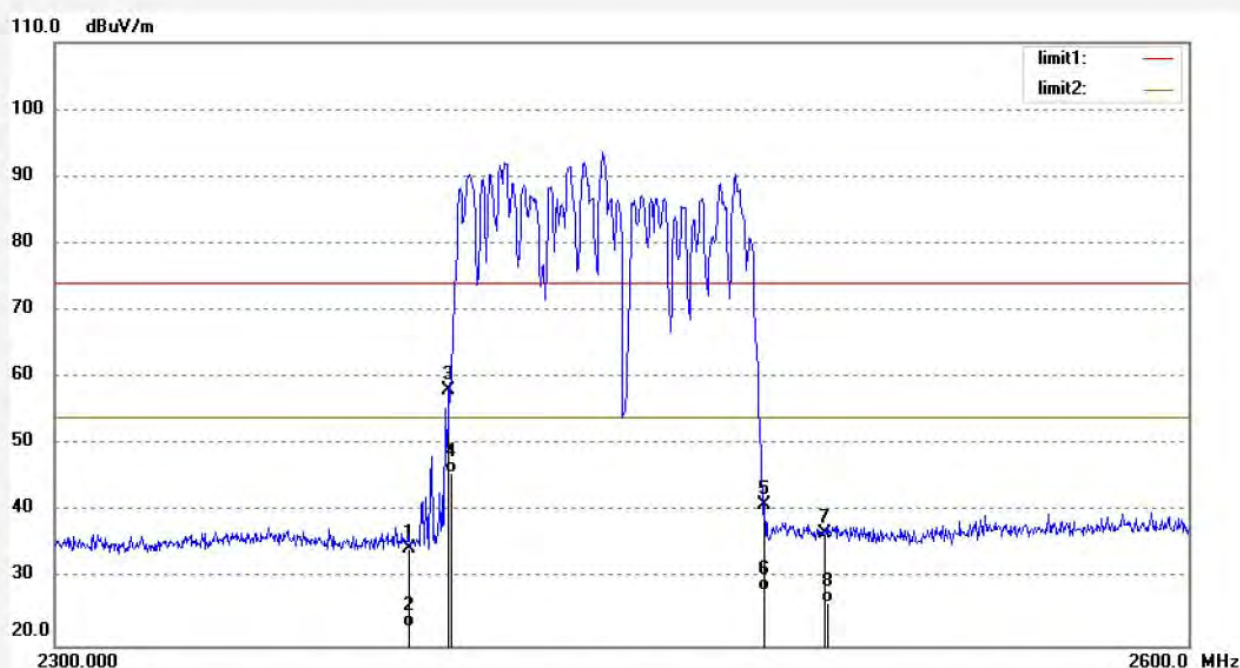
Date: 18/01/13/

Time: 15:57:29

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2390.000 | 38.87 | -4.32 | 34.55 | 74.00 | -39.45 | peak | 250 | 132 | |
| 2 | 2390.000 | 27.13 | -4.32 | 22.81 | 54.00 | -31.19 | AVG | 300 | 195 | |
| 3 | 2400.000 | 62.30 | -4.27 | 58.03 | 74.00 | -15.97 | peak | 300 | 28 | |
| 4 | 2400.000 | 50.12 | -4.27 | 45.85 | 54.00 | -8.15 | AVG | 250 | 312 | |
| 5 | 2483.500 | 44.90 | -3.89 | 41.01 | 74.00 | -32.99 | peak | 200 | 182 | |
| 6 | 2483.500 | 32.15 | -3.89 | 28.26 | 54.00 | -25.74 | AVG | 250 | 97 | |
| 7 | 2500.000 | 40.61 | -3.81 | 36.80 | 74.00 | -37.20 | peak | 250 | 83 | |
| 8 | 2500.000 | 30.18 | -3.81 | 26.37 | 54.00 | -27.63 | AVG | 250 | 156 | |

Job No.: FRANK2018 #206

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: HOPPING(π/4DQPSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

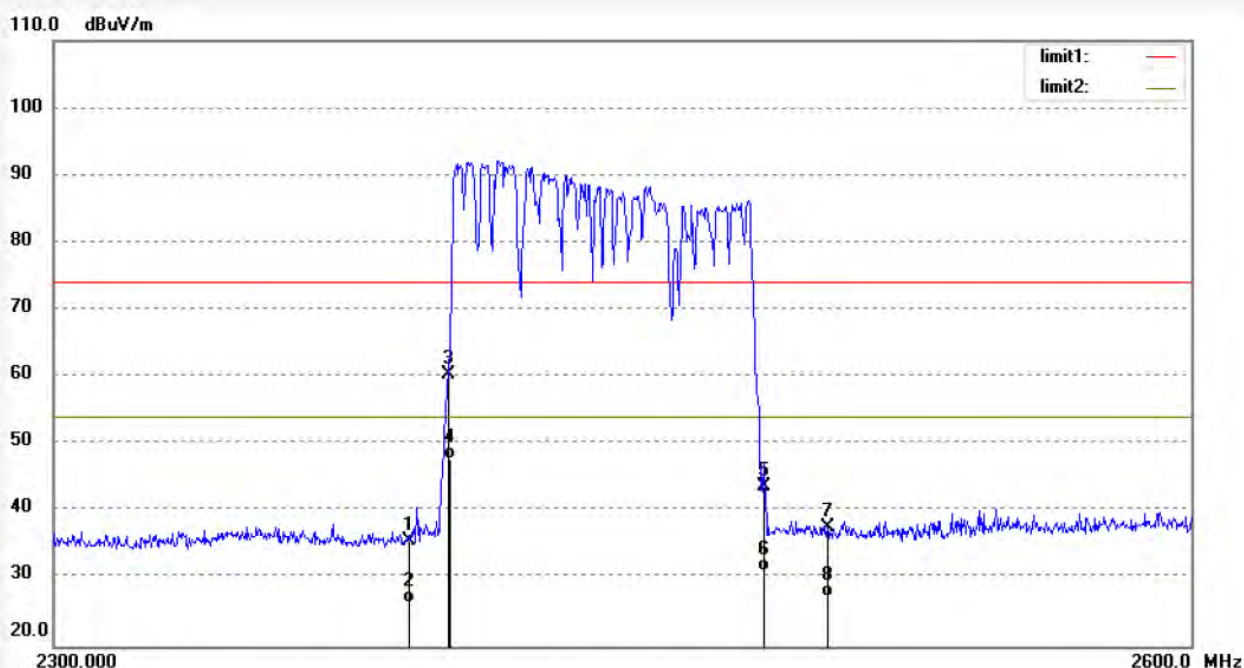
Date: 18/01/13/

Time: 16:00:26

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2390.000 | 39.85 | -4.32 | 35.53 | 74.00 | -38.47 | peak | 200 | 159 | |
| 2 | 2390.000 | 30.65 | -4.32 | 26.33 | 54.00 | -27.67 | AVG | 150 | 138 | |
| 3 | 2400.000 | 64.60 | -4.27 | 60.33 | 74.00 | -13.67 | peak | 200 | 29 | |
| 4 | 2400.000 | 52.15 | -4.27 | 47.88 | 54.00 | -6.12 | AVG | 150 | 101 | |
| 5 | 2483.500 | 47.57 | -3.89 | 43.68 | 74.00 | -30.32 | peak | 200 | 321 | |
| 6 | 2483.500 | 35.12 | -3.89 | 31.23 | 54.00 | -22.77 | AVG | 200 | 168 | |
| 7 | 2500.000 | 41.42 | -3.81 | 37.61 | 74.00 | -36.39 | peak | 200 | 95 | |
| 8 | 2500.000 | 31.21 | -3.81 | 27.40 | 54.00 | -26.60 | AVG | 200 | 112 | |

Job No.: FRANK2018 #208

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: HOPPING(8DPSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Horizontal

Power Source: AC 120V/60Hz

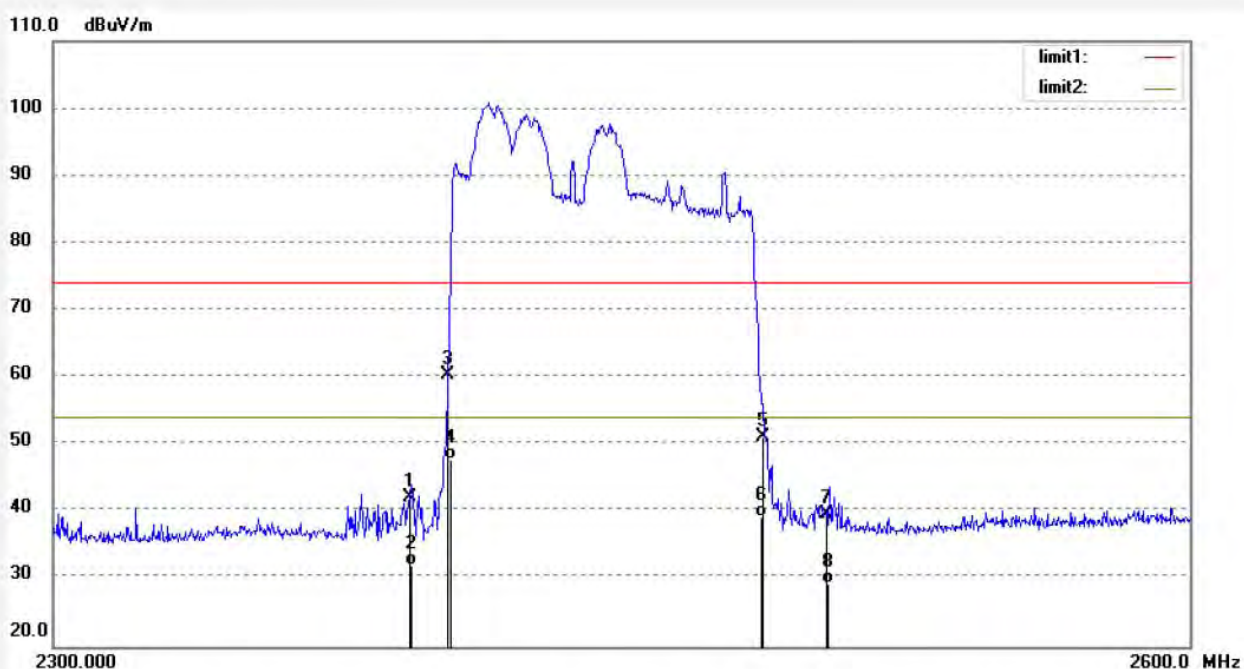
Date: 18/01/13/

Time: 16:15:03

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1 | 2390.000 | 46.50 | -4.32 | 42.18 | 74.00 | -31.82 | peak | 250 | 91 | |
| 2 | 2390.000 | 36.45 | -4.32 | 32.13 | 54.00 | -21.87 | AVG | 300 | 147 | |
| 3 | 2400.000 | 64.65 | -4.27 | 60.38 | 74.00 | -13.62 | peak | 300 | 132 | |
| 4 | 2400.000 | 52.12 | -4.27 | 47.85 | 54.00 | -6.15 | AVG | 250 | 154 | |
| 5 | 2483.500 | 55.07 | -3.89 | 51.18 | 74.00 | -22.82 | peak | 250 | 56 | |
| 6 | 2483.500 | 43.12 | -3.89 | 39.23 | 54.00 | -14.77 | AVG | 250 | 54 | |
| 7 | 2500.000 | 43.54 | -3.81 | 39.73 | 74.00 | -34.27 | peak | 250 | 125 | |
| 8 | 2500.000 | 33.12 | -3.81 | 29.31 | 54.00 | -24.69 | AVG | 250 | 214 | |

Job No.: FRANK2018 #207

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Songbird II Radio

Mode: HOPPING(8DPSK)

Model: CR3034A-BH

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

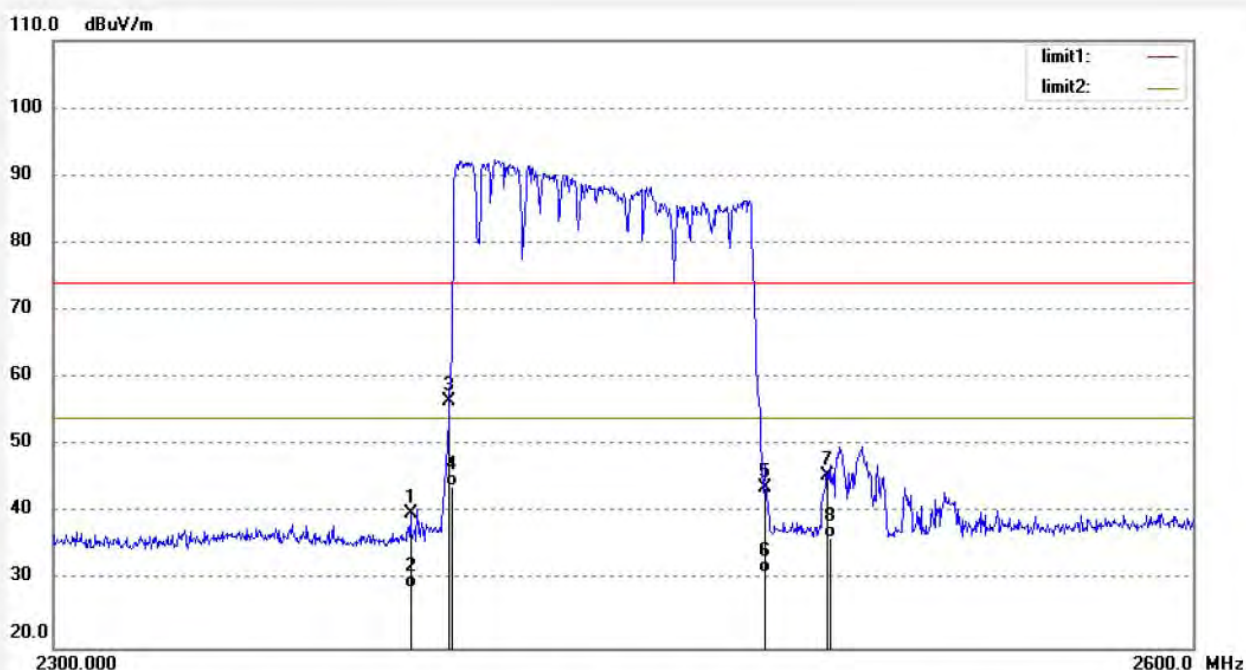
Date: 18/01/13/

Time: 16:02:12

Engineer Signature: Frank

Distance: 3m

Note: Report NO.:ATE20172583

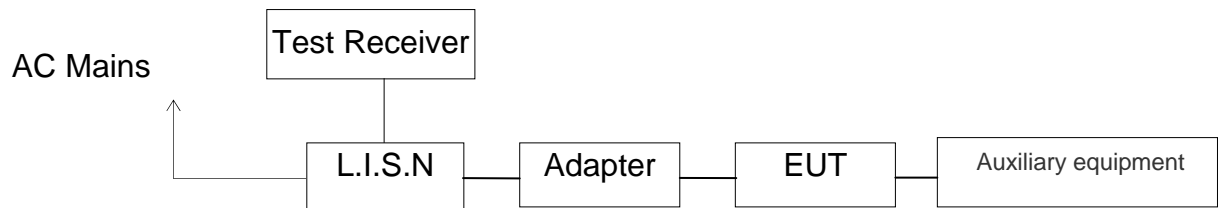


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2390.000 | 44.19 | -4.32 | 39.87 | 74.00 | -34.13 | peak | 150 | 270 | |
| 2 | 2390.000 | 33.15 | -4.32 | 28.83 | 54.00 | -25.17 | AVG | 150 | 351 | |
| 3 | 2400.000 | 60.83 | -4.27 | 56.56 | 74.00 | -17.44 | peak | 250 | 75 | |
| 4 | 2400.000 | 48.15 | -4.27 | 43.88 | 54.00 | -10.12 | AVG | 250 | 130 | |
| 5 | 2483.500 | 47.57 | -3.89 | 43.68 | 74.00 | -30.32 | peak | 250 | 91 | |
| 6 | 2483.500 | 35.12 | -3.89 | 31.23 | 54.00 | -22.77 | AVG | 250 | 156 | |
| 7 | 2500.000 | 49.40 | -3.81 | 45.59 | 74.00 | -28.41 | peak | 250 | 150 | |
| 8 | 2500.000 | 40.12 | -3.81 | 36.31 | 54.00 | -17.69 | AVG | 250 | 122 | |

12.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

15 SECTION 15.207(A)

12.1.Block Diagram of Test Setup



(EUT: Songbird II Radio)

12.2.Power Line Conducted Emission Measurement Limits

| Frequency (MHz) | Limit dB(μV) | |
|--------------------|------------------|---------------|
| | Quasi-peak Level | Average Level |
| 0.15 - 0.50 | 66.0 – 56.0 * | 56.0 – 46.0 * |
| 0.50 - 5.00 | 56.0 | 46.0 |
| 5.00 - 30.00 | 60.0 | 50.0 |

NOTE1: The lower limit shall apply at the transition frequencies.
 NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

12.3.Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

12.4.Operating Condition of EUT

12.4.1.Setup the EUT and simulator as shown as Section 12.1.

12.4.2.Turn on the power of all equipment.

12.4.3.Let the EUT work in test mode and measure it.

12.5. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

12.6. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

The adapter used in the test is the number 1 adapter
Test mode: BT OPERATION(Worse case)
Test Voltage: 120V/60Hz

MEASUREMENT RESULT: "F2583-9_fin"

1/8/2018 9:42AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.245000 | 37.80 | 10.6 | 62 | 24.1 | QP | L1 | GND |
| 0.720000 | 42.50 | 10.8 | 56 | 13.5 | QP | L1 | GND |
| 1.490000 | 38.20 | 10.9 | 56 | 17.8 | QP | L1 | GND |
| 3.530000 | 36.20 | 11.1 | 56 | 19.8 | QP | L1 | GND |
| 5.370000 | 34.80 | 11.2 | 60 | 25.2 | QP | L1 | GND |
| 17.605000 | 29.00 | 11.4 | 60 | 31.0 | QP | L1 | GND |

MEASUREMENT RESULT: "F2583-9_fin2"

1/8/2018 9:42AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.310000 | 29.00 | 10.6 | 50 | 21.0 | AV | L1 | GND |
| 0.720000 | 32.30 | 10.8 | 46 | 13.7 | AV | L1 | GND |
| 1.465000 | 28.40 | 10.9 | 46 | 17.6 | AV | L1 | GND |
| 2.680000 | 25.20 | 11.0 | 46 | 20.8 | AV | L1 | GND |
| 5.170000 | 22.40 | 11.2 | 50 | 27.6 | AV | L1 | GND |
| 17.785000 | 16.40 | 11.4 | 50 | 33.6 | AV | L1 | GND |

MEASUREMENT RESULT: "F2583-10_fin"

1/8/2018 9:46AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.345000 | 33.80 | 10.6 | 59 | 25.3 | QP | N | GND |
| 0.720000 | 40.70 | 10.8 | 56 | 15.3 | QP | N | GND |
| 1.865000 | 31.00 | 11.0 | 56 | 25.0 | QP | N | GND |
| 2.180000 | 30.70 | 11.0 | 56 | 25.3 | QP | N | GND |
| 7.580000 | 26.50 | 11.2 | 60 | 33.5 | QP | N | GND |
| 17.950000 | 28.90 | 11.4 | 60 | 31.1 | QP | N | GND |

MEASUREMENT RESULT: "F2583-10_fin2"

1/8/2018 9:46AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.345000 | 23.90 | 10.6 | 49 | 25.2 | AV | N | GND |
| 0.720000 | 34.60 | 10.8 | 46 | 11.4 | AV | N | GND |
| 1.415000 | 25.20 | 10.9 | 46 | 20.8 | AV | N | GND |
| 2.880000 | 21.90 | 11.0 | 46 | 24.1 | AV | N | GND |
| 5.200000 | 20.70 | 11.2 | 50 | 29.3 | AV | N | GND |
| 17.935000 | 13.60 | 11.4 | 50 | 36.4 | AV | N | GND |

The adapter used in the test is the number 1 adapter
Test mode: BT OPERATION (Worse case)
Test Voltage: 240V/60Hz

MEASUREMENT RESULT: "F2583-8_fin"

1/8/2018 9:38AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.175000 | 41.20 | 10.5 | 65 | 23.5 | QP | L1 | GND |
| 0.715000 | 42.70 | 10.8 | 56 | 13.3 | QP | L1 | GND |
| 1.250000 | 37.80 | 10.9 | 56 | 18.2 | QP | L1 | GND |
| 2.760000 | 36.00 | 11.0 | 56 | 20.0 | QP | L1 | GND |
| 5.460000 | 35.40 | 11.2 | 60 | 24.6 | QP | L1 | GND |
| 18.145000 | 28.30 | 11.4 | 60 | 31.7 | QP | L1 | GND |

MEASUREMENT RESULT: "F2583-8_fin2"

1/8/2018 9:38AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.360000 | 28.50 | 10.6 | 49 | 20.2 | AV | L1 | GND |
| 0.725000 | 31.60 | 10.8 | 46 | 14.4 | AV | L1 | GND |
| 1.475000 | 26.80 | 10.9 | 46 | 19.2 | AV | L1 | GND |
| 2.870000 | 25.10 | 11.0 | 46 | 20.9 | AV | L1 | GND |
| 5.810000 | 21.40 | 11.2 | 50 | 28.6 | AV | L1 | GND |
| 18.385000 | 17.00 | 11.4 | 50 | 33.0 | AV | L1 | GND |

MEASUREMENT RESULT: "F2583-7_fin"

1/8/2018 9:34AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.300000 | 34.50 | 10.6 | 60 | 25.7 | QP | N | GND |
| 0.715000 | 40.50 | 10.8 | 56 | 15.5 | QP | N | GND |
| 1.320000 | 28.80 | 10.9 | 56 | 27.2 | QP | N | GND |
| 3.170000 | 30.60 | 11.1 | 56 | 25.4 | QP | N | GND |
| 5.610000 | 27.30 | 11.2 | 60 | 32.7 | QP | N | GND |
| 18.310000 | 28.20 | 11.4 | 60 | 31.8 | QP | N | GND |

MEASUREMENT RESULT: "F2583-7_fin2"

1/8/2018 9:34AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.345000 | 22.70 | 10.6 | 49 | 26.4 | AV | N | GND |
| 0.715000 | 34.80 | 10.8 | 46 | 11.2 | AV | N | GND |
| 1.570000 | 25.20 | 10.9 | 46 | 20.8 | AV | N | GND |
| 3.540000 | 23.50 | 11.1 | 46 | 22.5 | AV | N | GND |
| 5.130000 | 20.90 | 11.2 | 50 | 29.1 | AV | N | GND |
| 17.785000 | 13.40 | 11.4 | 50 | 36.6 | AV | N | GND |

The adapter used in the test is the number 2 adapter

Test mode: BT OPERATION (Worse case)

Test Voltage: 120V/60Hz

MEASUREMENT RESULT: "F2583-12_fin"

1/8/2018 9:55AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.340000 | 36.30 | 10.6 | 59 | 22.9 | QP | L1 | GND |
| 0.410000 | 42.50 | 10.7 | 58 | 15.1 | QP | L1 | GND |
| 1.065000 | 33.40 | 10.9 | 56 | 22.6 | QP | L1 | GND |
| 2.330000 | 32.40 | 11.0 | 56 | 23.6 | QP | L1 | GND |
| 5.190000 | 28.60 | 11.2 | 60 | 31.4 | QP | L1 | GND |
| 23.995000 | 28.40 | 11.5 | 60 | 31.6 | QP | L1 | GND |

MEASUREMENT RESULT: "F2583-12_fin2"

1/8/2018 9:55AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.345000 | 26.50 | 10.6 | 49 | 22.6 | AV | L1 | GND |
| 0.405000 | 31.70 | 10.7 | 48 | 16.1 | AV | L1 | GND |
| 1.330000 | 26.40 | 10.9 | 46 | 19.6 | AV | L1 | GND |
| 2.880000 | 20.60 | 11.0 | 46 | 25.4 | AV | L1 | GND |
| 5.190000 | 16.70 | 11.2 | 50 | 33.3 | AV | L1 | GND |
| 23.995000 | 19.90 | 11.5 | 50 | 30.1 | AV | L1 | GND |

MEASUREMENT RESULT: "F2583-11_fin"

1/8/2018 9:51AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.200000 | 37.00 | 10.5 | 64 | 26.6 | QP | N | GND |
| 0.410000 | 37.80 | 10.7 | 58 | 19.8 | QP | N | GND |
| 1.185000 | 29.10 | 10.9 | 56 | 26.9 | QP | N | GND |
| 3.260000 | 27.40 | 11.1 | 56 | 28.6 | QP | N | GND |
| 5.420000 | 23.70 | 11.2 | 60 | 36.3 | QP | N | GND |
| 23.995000 | 24.40 | 11.5 | 60 | 35.6 | QP | N | GND |

MEASUREMENT RESULT: "F2583-11_fin2"

1/8/2018 9:51AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.330000 | 24.00 | 10.6 | 50 | 25.5 | AV | N | GND |
| 0.405000 | 30.30 | 10.7 | 48 | 17.5 | AV | N | GND |
| 1.170000 | 21.10 | 10.9 | 46 | 24.9 | AV | N | GND |
| 3.060000 | 18.30 | 11.1 | 46 | 27.7 | AV | N | GND |
| 5.390000 | 15.00 | 11.2 | 50 | 35.0 | AV | N | GND |
| 23.995000 | 15.80 | 11.5 | 50 | 34.2 | AV | N | GND |

The adapter used in the test is the number 2 adapter
Test mode: BT OPERATION (Worse case)
Test Voltage: 240V/60Hz

MEASUREMENT RESULT: "F2583-13_fin"

1/8/2018 9:59AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.330000 | 36.40 | 10.6 | 60 | 23.1 | QP | L1 | GND |
| 0.400000 | 42.30 | 10.7 | 58 | 15.6 | QP | L1 | GND |
| 1.275000 | 36.00 | 10.9 | 56 | 20.0 | QP | L1 | GND |
| 2.430000 | 33.40 | 11.0 | 56 | 22.6 | QP | L1 | GND |
| 5.590000 | 28.40 | 11.2 | 60 | 31.6 | QP | L1 | GND |
| 23.995000 | 28.70 | 11.5 | 60 | 31.3 | QP | L1 | GND |

MEASUREMENT RESULT: "F2583-13_fin2"

1/8/2018 9:59AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.360000 | 24.80 | 10.6 | 49 | 23.9 | AV | L1 | GND |
| 0.410000 | 32.50 | 10.7 | 48 | 15.1 | AV | L1 | GND |
| 1.780000 | 24.50 | 11.0 | 46 | 21.5 | AV | L1 | GND |
| 2.920000 | 22.00 | 11.1 | 46 | 24.0 | AV | L1 | GND |
| 5.210000 | 16.40 | 11.2 | 50 | 33.6 | AV | L1 | GND |
| 23.995000 | 19.90 | 11.5 | 50 | 30.1 | AV | L1 | GND |

MEASUREMENT RESULT: "F2583-14_fin"

1/8/2018 10:03AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.295000 | 30.60 | 10.6 | 60 | 29.8 | QP | N | GND |
| 0.405000 | 37.50 | 10.7 | 58 | 20.3 | QP | N | GND |
| 1.335000 | 29.20 | 10.9 | 56 | 26.8 | QP | N | GND |
| 2.760000 | 27.20 | 11.0 | 56 | 28.8 | QP | N | GND |
| 5.450000 | 22.90 | 11.2 | 60 | 37.1 | QP | N | GND |
| 23.995000 | 23.70 | 11.5 | 60 | 36.3 | QP | N | GND |

MEASUREMENT RESULT: "F2583-14_fin2"

1/8/2018 10:03AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.350000 | 23.60 | 10.6 | 49 | 25.4 | AV | N | GND |
| 0.410000 | 29.50 | 10.7 | 48 | 18.1 | AV | N | GND |
| 1.305000 | 20.90 | 10.9 | 46 | 25.1 | AV | N | GND |
| 2.910000 | 18.40 | 11.0 | 46 | 27.6 | AV | N | GND |
| 5.130000 | 15.00 | 11.2 | 50 | 35.0 | AV | N | GND |
| 23.995000 | 14.90 | 11.5 | 50 | 35.1 | AV | N | GND |

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

The test data of adapter 1

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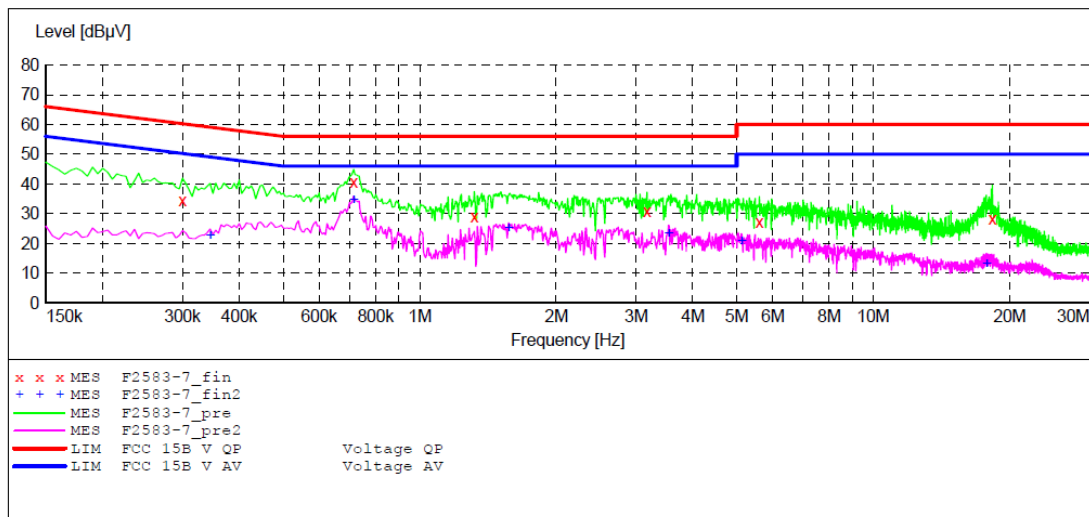
CONDUCTED EMISSION STANDARD FCC PART 15

EUT: Songbird II Radio M/N:CR3034A-BH
 Manufacturer: TIMSEN INTERNATIONAL LIMITED
 Operating Condition: BT OPERATION
 Test Site: 1#Shielding Room
 Operator: Frank
 Test Specification: N 240V/60Hz
 Comment: Report NO.:ATE20172583
 Start of Test: 1/8/2018 / 9:30:56AM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|-----------------|----------------|------------|-----------|------------|-----------|---------------|
| 9.0 kHz | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s | 200 Hz | NSLK8126 2008 |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | Average | | | |
| | | | QuasiPeak | 1.0 s | 9 kHz | NSLK8126 2008 |
| | | | Average | | | |



MEASUREMENT RESULT: "F2583-7_fin"

1/8/2018 9:34AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.300000 | 34.50 | 10.6 | 60 | 25.7 | QP | N | GND |
| 0.715000 | 40.50 | 10.8 | 56 | 15.5 | QP | N | GND |
| 1.320000 | 28.80 | 10.9 | 56 | 27.2 | QP | N | GND |
| 3.170000 | 30.60 | 11.1 | 56 | 25.4 | QP | N | GND |
| 5.610000 | 27.30 | 11.2 | 60 | 32.7 | QP | N | GND |
| 18.310000 | 28.20 | 11.4 | 60 | 31.8 | QP | N | GND |

MEASUREMENT RESULT: "F2583-7_fin2"

1/8/2018 9:34AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.345000 | 22.70 | 10.6 | 49 | 26.4 | AV | N | GND |
| 0.715000 | 34.80 | 10.8 | 46 | 11.2 | AV | N | GND |
| 1.570000 | 25.20 | 10.9 | 46 | 20.8 | AV | N | GND |
| 3.540000 | 23.50 | 11.1 | 46 | 22.5 | AV | N | GND |
| 5.130000 | 20.90 | 11.2 | 50 | 29.1 | AV | N | GND |
| 17.785000 | 13.40 | 11.4 | 50 | 36.6 | AV | N | GND |

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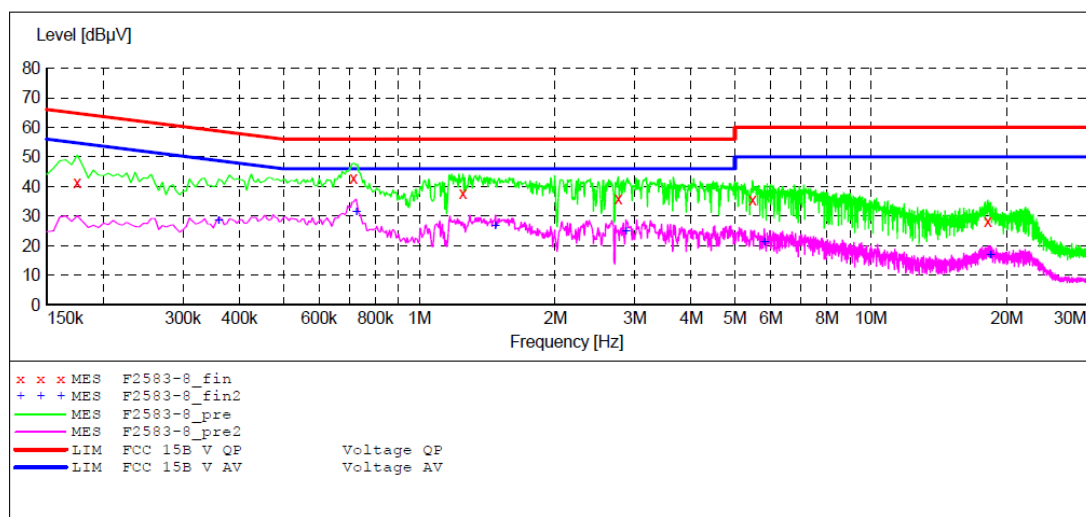
CONDUCTED EMISSION STANDARD FCC PART 15

EUT: Songbird II Radio M/N:CR3034A-BH
 Manufacturer: TIMSEN INTERNATIONAL LIMITED
 Operating Condition: BT OPERATION
 Test Site: 1#Shielding Room
 Operator: Frank
 Test Specification: L 240V/60Hz
 Comment: Report NO.:ATE20172583
 Start of Test: 1/8/2018 / 9:35:01AM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|-----------------|----------------|------------|-----------|------------|-----------|---------------|
| 9.0 kHz | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s | 200 Hz | NSLK8126 2008 |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | Average | 1.0 s | 9 kHz | NSLK8126 2008 |



MEASUREMENT RESULT: "F2583-8_fin"

1/8/2018 9:38AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.175000 | 41.20 | 10.5 | 65 | 23.5 | QP | L1 | GND |
| 0.715000 | 42.70 | 10.8 | 56 | 13.3 | QP | L1 | GND |
| 1.250000 | 37.80 | 10.9 | 56 | 18.2 | QP | L1 | GND |
| 2.760000 | 36.00 | 11.0 | 56 | 20.0 | QP | L1 | GND |
| 5.460000 | 35.40 | 11.2 | 60 | 24.6 | QP | L1 | GND |
| 18.145000 | 28.30 | 11.4 | 60 | 31.7 | QP | L1 | GND |

MEASUREMENT RESULT: "F2583-8_fin2"

1/8/2018 9:38AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.360000 | 28.50 | 10.6 | 49 | 20.2 | AV | L1 | GND |
| 0.725000 | 31.60 | 10.8 | 46 | 14.4 | AV | L1 | GND |
| 1.475000 | 26.80 | 10.9 | 46 | 19.2 | AV | L1 | GND |
| 2.870000 | 25.10 | 11.0 | 46 | 20.9 | AV | L1 | GND |
| 5.810000 | 21.40 | 11.2 | 50 | 28.6 | AV | L1 | GND |
| 18.385000 | 17.00 | 11.4 | 50 | 33.0 | AV | L1 | GND |

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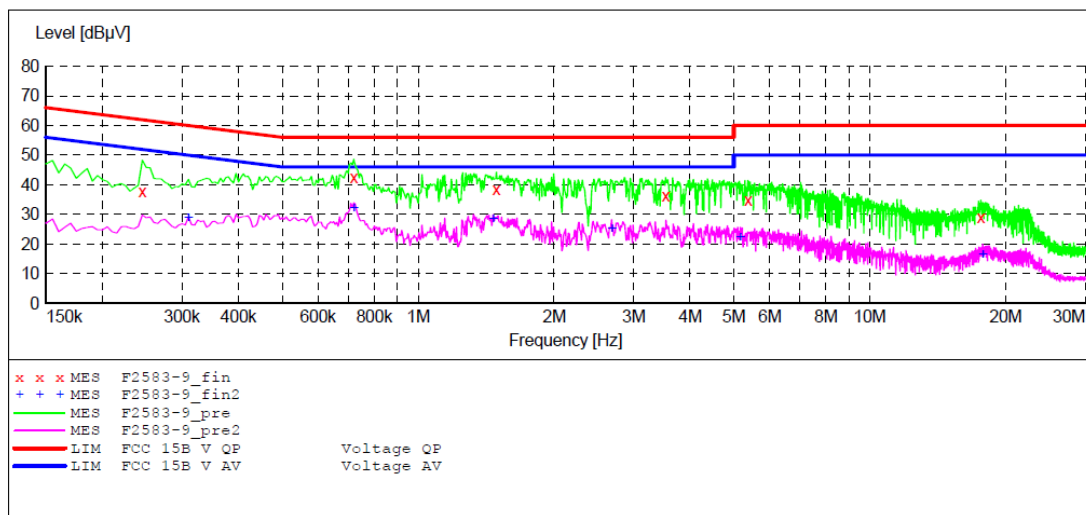
CONDUCTED EMISSION STANDARD FCC PART 15

EUT: Songbird II Radio M/N:CR3034A-BH
 Manufacturer: TIMSEN INTERNATIONAL LIMITED
 Operating Condition: BT OPERATION
 Test Site: 1#Shielding Room
 Operator: Frank
 Test Specification: L 120V/60Hz
 Comment: Report NO.:ATE20172583
 Start of Test: 1/8/2018 / 9:38:51AM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|-----------------|----------------|------------|-----------|------------|-----------|---------------|
| 9.0 kHz | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s | 200 Hz | NSLK8126 2008 |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | Average | 1.0 s | 9 kHz | NSLK8126 2008 |



MEASUREMENT RESULT: "F2583-9_fin"

1/8/2018 9:42AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.245000 | 37.80 | 10.6 | 62 | 24.1 | QP | L1 | GND |
| 0.720000 | 42.50 | 10.8 | 56 | 13.5 | QP | L1 | GND |
| 1.490000 | 38.20 | 10.9 | 56 | 17.8 | QP | L1 | GND |
| 3.530000 | 36.20 | 11.1 | 56 | 19.8 | QP | L1 | GND |
| 5.370000 | 34.80 | 11.2 | 60 | 25.2 | QP | L1 | GND |
| 17.605000 | 29.00 | 11.4 | 60 | 31.0 | QP | L1 | GND |

MEASUREMENT RESULT: "F2583-9_fin2"

1/8/2018 9:42AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.310000 | 29.00 | 10.6 | 50 | 21.0 | AV | L1 | GND |
| 0.720000 | 32.30 | 10.8 | 46 | 13.7 | AV | L1 | GND |
| 1.465000 | 28.40 | 10.9 | 46 | 17.6 | AV | L1 | GND |
| 2.680000 | 25.20 | 11.0 | 46 | 20.8 | AV | L1 | GND |
| 5.170000 | 22.40 | 11.2 | 50 | 27.6 | AV | L1 | GND |
| 17.785000 | 16.40 | 11.4 | 50 | 33.6 | AV | L1 | GND |

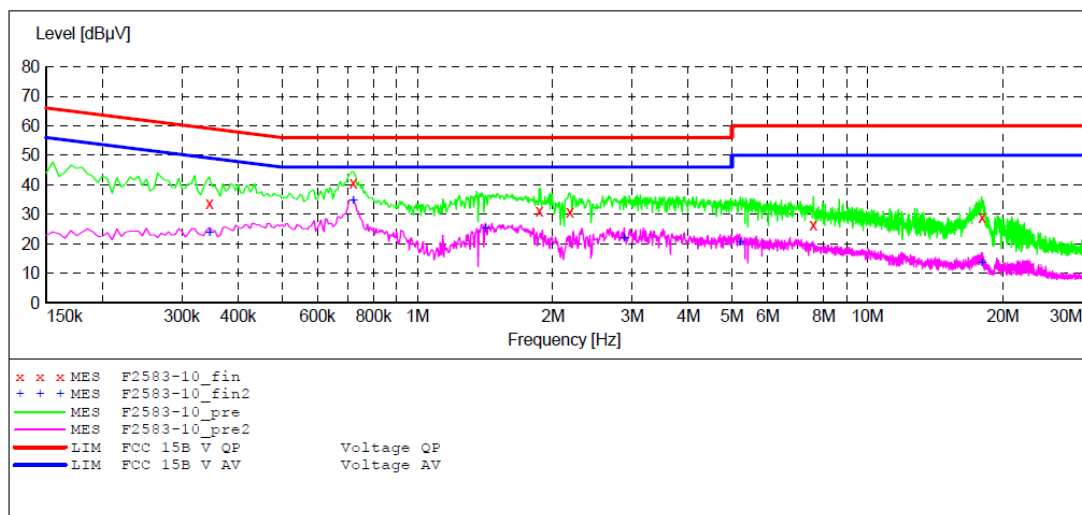
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15

EUT: Songbird II Radio M/N:CR3034A-BH
 Manufacturer: TIMSEN INTERNATIONAL LIMITED
 Operating Condition: BT OPERATION
 Test Site: 1#Shielding Room
 Operator: Frank
 Test Specification: N 120V/60Hz
 Comment: Report NO.:ATE20172583
 Start of Test: 1/8/2018 / 9:42:52AM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "F2583-10_fin"

1/8/2018 9:46AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.345000 | 33.80 | 10.6 | 59 | 25.3 | QP | N | GND |
| 0.720000 | 40.70 | 10.8 | 56 | 15.3 | QP | N | GND |
| 1.865000 | 31.00 | 11.0 | 56 | 25.0 | QP | N | GND |
| 2.180000 | 30.70 | 11.0 | 56 | 25.3 | QP | N | GND |
| 7.580000 | 26.50 | 11.2 | 60 | 33.5 | QP | N | GND |
| 17.950000 | 28.90 | 11.4 | 60 | 31.1 | QP | N | GND |

MEASUREMENT RESULT: "F2583-10_fin2"

1/8/2018 9:46AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.345000 | 23.90 | 10.6 | 49 | 25.2 | AV | N | GND |
| 0.720000 | 34.60 | 10.8 | 46 | 11.4 | AV | N | GND |
| 1.415000 | 25.20 | 10.9 | 46 | 20.8 | AV | N | GND |
| 2.880000 | 21.90 | 11.0 | 46 | 24.1 | AV | N | GND |
| 5.200000 | 20.70 | 11.2 | 50 | 29.3 | AV | N | GND |
| 17.935000 | 13.60 | 11.4 | 50 | 36.4 | AV | N | GND |

The test data of adapter 2

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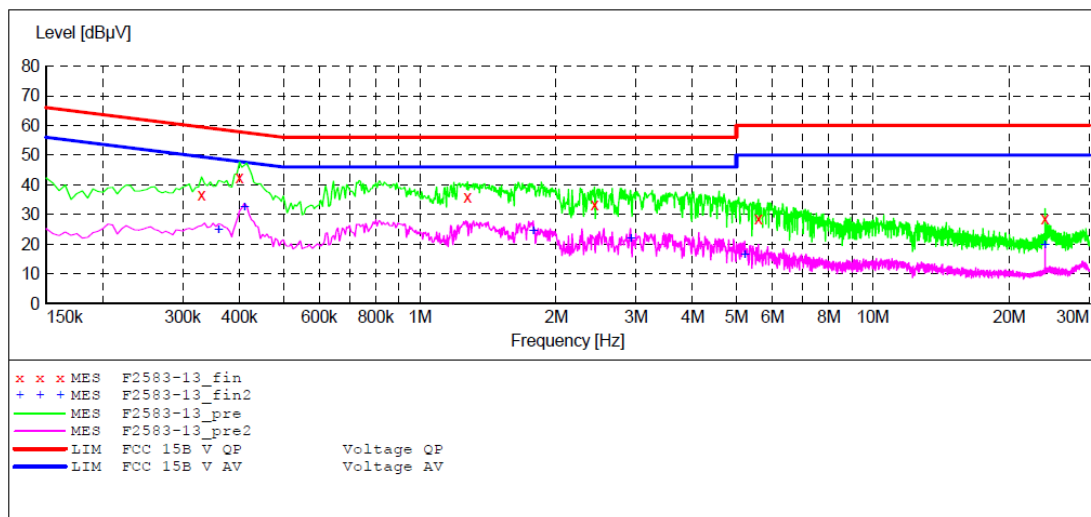
CONDUCTED EMISSION STANDARD FCC PART 15

EUT: Songbird II Radio M/N:CR3034A-BH
 Manufacturer: TIMSEN INTERNATIONAL LIMITED
 Operating Condition: BT OPERATION
 Test Site: 1#Shielding Room
 Operator: Frank
 Test Specification: L 240V/60Hz
 Comment: Report NO.:ATE20172583

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERM2 1.70

| Start | Stop | Step | Detector | Meas. Time | IF Bandw. | Transducer |
|-------------------|---------------------|----------------|-----------|-----------------|-----------|---------------|
| Frequency 9.0 kHz | Frequency 150.0 kHz | Width 100.0 Hz | QuasiPeak | 1.0 s | 200 Hz | NSLK8126 2008 |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | Average | QuasiPeak 1.0 s | 9 kHz | NSLK8126 2008 |
| | | | Average | | | |



MEASUREMENT RESULT: "F2583-13_fin"

1/8/2018 9:59AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.330000 | 36.40 | 10.6 | 60 | 23.1 | QP | L1 | GND |
| 0.400000 | 42.30 | 10.7 | 58 | 15.6 | QP | L1 | GND |
| 1.275000 | 36.00 | 10.9 | 56 | 20.0 | QP | L1 | GND |
| 2.430000 | 33.40 | 11.0 | 56 | 22.6 | QP | L1 | GND |
| 5.590000 | 28.40 | 11.2 | 60 | 31.6 | QP | L1 | GND |
| 23.995000 | 28.70 | 11.5 | 60 | 31.3 | QP | L1 | GND |

MEASUREMENT RESULT: "F2583-13_fin2"

1/8/2018 9:59AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.360000 | 24.80 | 10.6 | 49 | 23.9 | AV | L1 | GND |
| 0.410000 | 32.50 | 10.7 | 48 | 15.1 | AV | L1 | GND |
| 1.780000 | 24.50 | 11.0 | 46 | 21.5 | AV | L1 | GND |
| 2.920000 | 22.00 | 11.1 | 46 | 24.0 | AV | L1 | GND |
| 5.210000 | 16.40 | 11.2 | 50 | 33.6 | AV | L1 | GND |
| 23.995000 | 19.90 | 11.5 | 50 | 30.1 | AV | L1 | GND |

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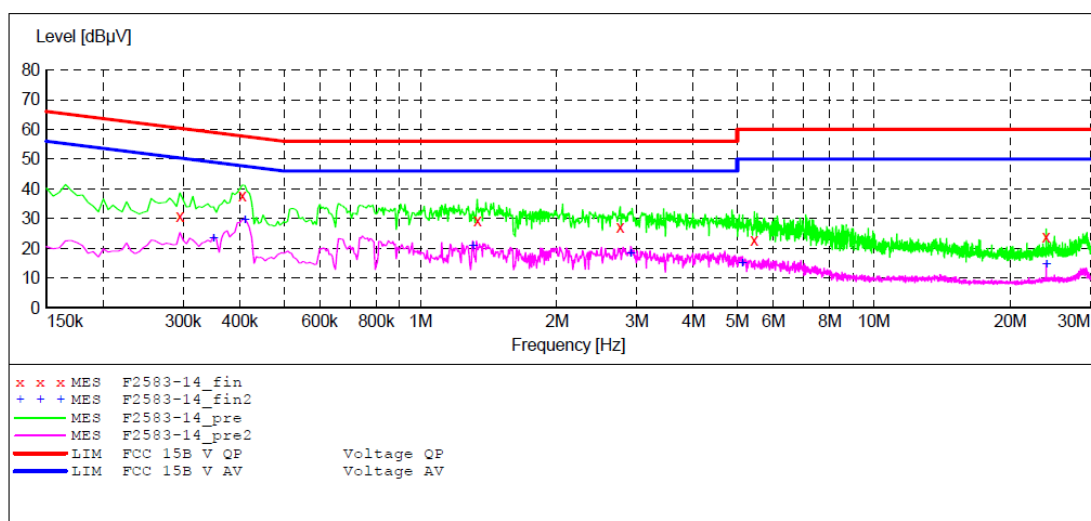
CONDUCTED EMISSION STANDARD FCC PART 15

EUT: Songbird II Radio M/N:CR3034A-BH
 Manufacturer: TIMSEN INTERNATIONAL LIMITED
 Operating Condition: BT OPERATION
 Test Site: 1#Shielding Room
 Operator: Frank
 Test Specification: N 240V/60Hz
 Comment: Report NO.:ATE20172583

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|-----------------|----------------|------------|-----------|------------|-----------|---------------|
| 9.0 kHz | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s | 200 Hz | NSLK8126 2008 |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | Average | | | |
| | | | QuasiPeak | 1.0 s | 9 kHz | NSLK8126 2008 |
| | | | Average | | | |



MEASUREMENT RESULT: "F2583-14_fin"

1/8/2018 10:03AM

| Frequency MHz | Level dBuV | Transd dB | Limit dBuV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.295000 | 30.60 | 10.6 | 60 | 29.8 | QP | N | GND |
| 0.405000 | 37.50 | 10.7 | 58 | 20.3 | QP | N | GND |
| 1.335000 | 29.20 | 10.9 | 56 | 26.8 | QP | N | GND |
| 2.760000 | 27.20 | 11.0 | 56 | 28.8 | QP | N | GND |
| 5.450000 | 22.90 | 11.2 | 60 | 37.1 | QP | N | GND |
| 23.995000 | 23.70 | 11.5 | 60 | 36.3 | QP | N | GND |

MEASUREMENT RESULT: "F2583-14_fin2"

1/8/2018 10:03AM

| Frequency MHz | Level dBuV | Transd dB | Limit dBuV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.350000 | 23.60 | 10.6 | 49 | 25.4 | AV | N | GND |
| 0.410000 | 29.50 | 10.7 | 48 | 18.1 | AV | N | GND |
| 1.305000 | 20.90 | 10.9 | 46 | 25.1 | AV | N | GND |
| 2.910000 | 18.40 | 11.0 | 46 | 27.6 | AV | N | GND |
| 5.130000 | 15.00 | 11.2 | 50 | 35.0 | AV | N | GND |
| 23.995000 | 14.90 | 11.5 | 50 | 35.1 | AV | N | GND |

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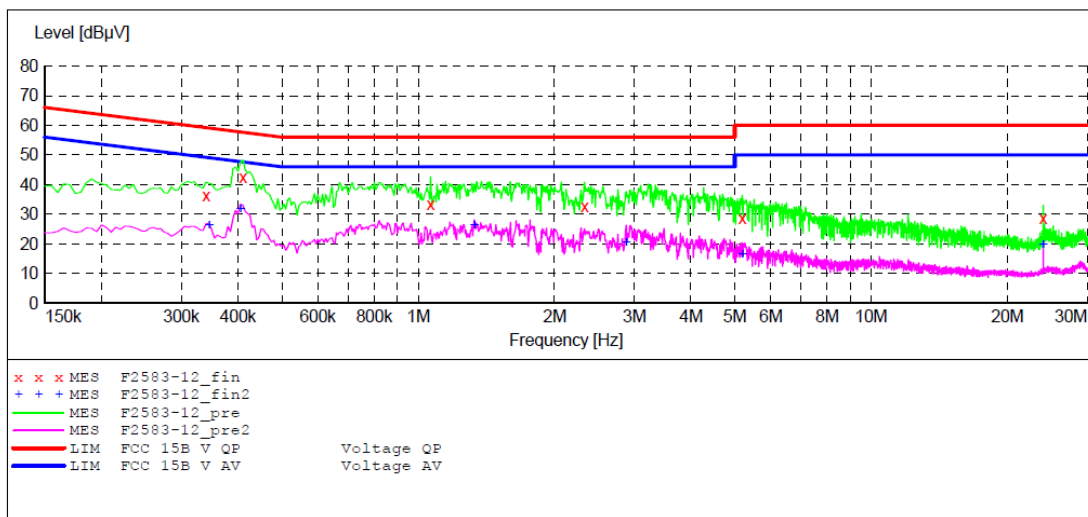
CONDUCTED EMISSION STANDARD FCC PART 15

EUT: Songbird II Radio M/N:CR3034A-BH
 Manufacturer: TIMSEN INTERNATIONAL LIMITED
 Operating Condition: BT OPERATION
 Test Site: 1#Shielding Room
 Operator: Frank
 Test Specification: L 120V/60Hz
 Comment: Report NO.:ATE20172583

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERM2 1.70

| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
|-----------------|----------------|------------|-----------|------------|-----------|---------------|
| 9.0 kHz | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s | 200 Hz | NSLK8126 2008 |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | Average | 1.0 s | 9 kHz | NSLK8126 2008 |



MEASUREMENT RESULT: "F2583-12_fin"

1/8/2018 9:55AM

| Frequency MHz | Level dBuV | Transd dB | Limit dBuV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.340000 | 36.30 | 10.6 | 59 | 22.9 | QP | L1 | GND |
| 0.410000 | 42.50 | 10.7 | 58 | 15.1 | QP | L1 | GND |
| 1.065000 | 33.40 | 10.9 | 56 | 22.6 | QP | L1 | GND |
| 2.330000 | 32.40 | 11.0 | 56 | 23.6 | QP | L1 | GND |
| 5.190000 | 28.60 | 11.2 | 60 | 31.4 | QP | L1 | GND |
| 23.995000 | 28.40 | 11.5 | 60 | 31.6 | QP | L1 | GND |

MEASUREMENT RESULT: "F2583-12_fin2"

1/8/2018 9:55AM

| Frequency MHz | Level dBuV | Transd dB | Limit dBuV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.345000 | 26.50 | 10.6 | 49 | 22.6 | AV | L1 | GND |
| 0.405000 | 31.70 | 10.7 | 48 | 16.1 | AV | L1 | GND |
| 1.330000 | 26.40 | 10.9 | 46 | 19.6 | AV | L1 | GND |
| 2.880000 | 20.60 | 11.0 | 46 | 25.4 | AV | L1 | GND |
| 5.190000 | 16.70 | 11.2 | 50 | 33.3 | AV | L1 | GND |
| 23.995000 | 19.90 | 11.5 | 50 | 30.1 | AV | L1 | GND |

ACCURATE TECHNOLOGY CO., LTD

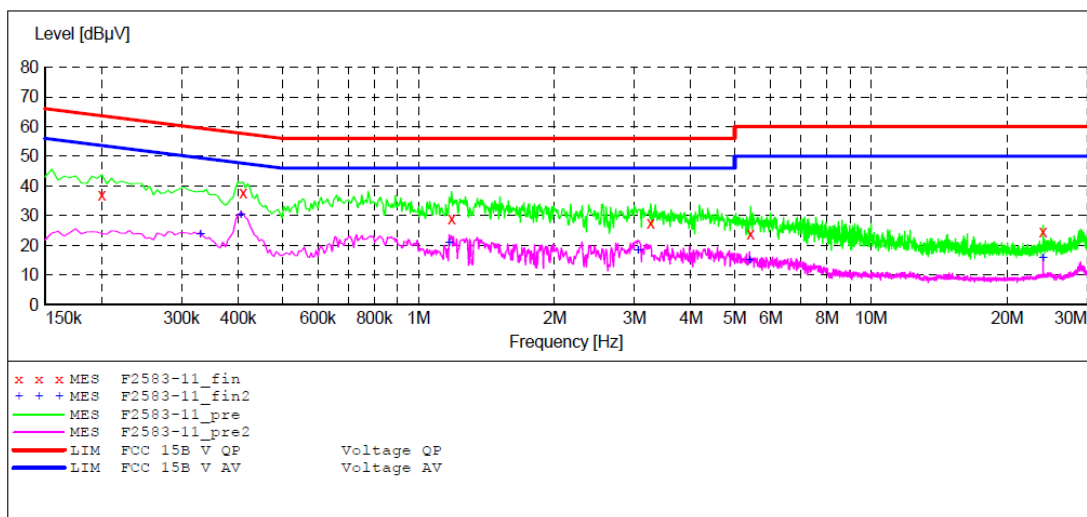
CONDUCTED EMISSION STANDARD FCC PART 15

EUT: Songbird II Radio M/N:CR3034A-BH
 Manufacturer: TIMSEN INTERNATIONAL LIMITED
 Operating Condition: BT OPERATION
 Test Site: 1#Shielding Room
 Operator: Frank
 Test Specification: N 120V/60Hz
 Comment: Report NO.:ATE20172583

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERM2 1.70

| Start | Stop | Step | Detector | Meas. Time | IF Bandw. | Transducer |
|-----------|-----------|----------|-----------|------------|-----------|---------------|
| 9.0 kHz | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s | 200 Hz | NSLK8126 2008 |
| 150.0 kHz | 30.0 MHz | 5.0 kHz | Average | 1.0 s | 9 kHz | NSLK8126 2008 |



MEASUREMENT RESULT: "F2583-11_fin"

1/8/2018 9:51AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.200000 | 37.00 | 10.5 | 64 | 26.6 | QP | N | GND |
| 0.410000 | 37.80 | 10.7 | 58 | 19.8 | QP | N | GND |
| 1.185000 | 29.10 | 10.9 | 56 | 26.9 | QP | N | GND |
| 3.260000 | 27.40 | 11.1 | 56 | 28.6 | QP | N | GND |
| 5.420000 | 23.70 | 11.2 | 60 | 36.3 | QP | N | GND |
| 23.995000 | 24.40 | 11.5 | 60 | 35.6 | QP | N | GND |

MEASUREMENT RESULT: "F2583-11_fin2"

1/8/2018 9:51AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.330000 | 24.00 | 10.6 | 50 | 25.5 | AV | N | GND |
| 0.405000 | 30.30 | 10.7 | 48 | 17.5 | AV | N | GND |
| 1.170000 | 21.10 | 10.9 | 46 | 24.9 | AV | N | GND |
| 3.060000 | 18.30 | 11.1 | 46 | 27.7 | AV | N | GND |
| 5.390000 | 15.00 | 11.2 | 50 | 35.0 | AV | N | GND |
| 23.995000 | 15.80 | 11.5 | 50 | 34.2 | AV | N | GND |

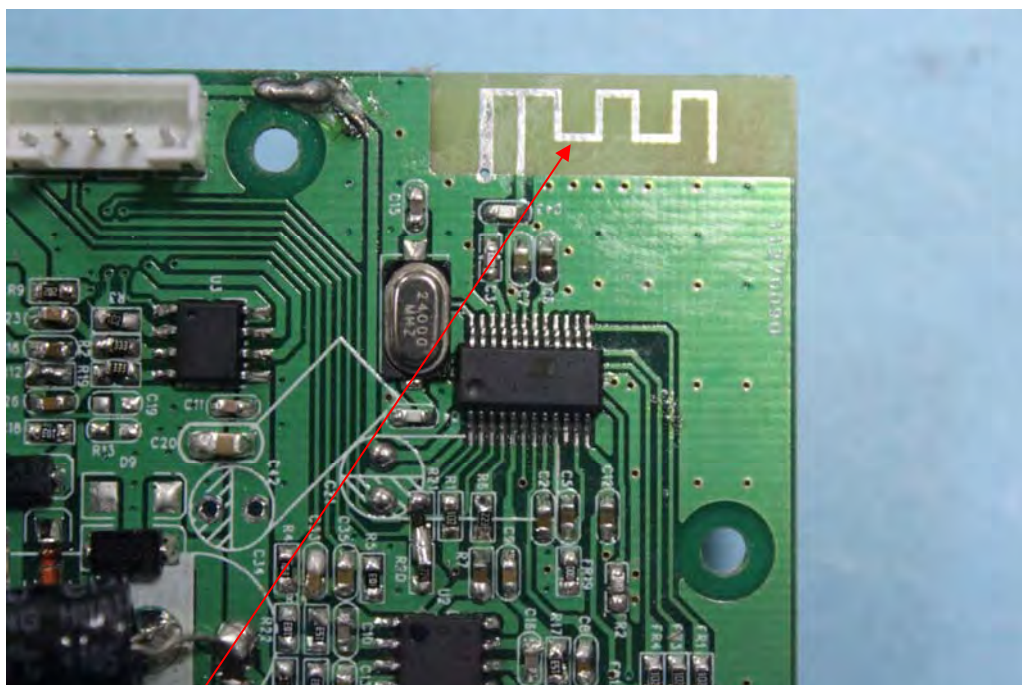
13.ANTENNA REQUIREMENT

13.1.The Requirement

According to Section 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.

13.2.Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Max Antenna gain of EUT is 2dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna