

FCC Test Report (BT-LE)

Report No.: RF170918E11-3

FCC ID: BKMFBJ26H005

Test Model: J26H005

Received Date: Sep. 18, 2017

Test Date: Sep. 27 to Oct. 06, 2017

Issued Date: Nov. 23, 2017

Applicant: Seiko Epson Corporation

Address: 3-3-5 Owa Suwa-shi Nagano-Ken 392-8502, Japan

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan R.O.C.

Test Location : E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan R.O.C.



This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification. The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.

Table of Contents

| | |
|--|-----------|
| Release Control Record | 4 |
| 1 Certificate of Conformity | 5 |
| 2 Summary of Test Results | 6 |
| 2.1 Measurement Uncertainty | 6 |
| 2.2 Modification Record | 6 |
| 3 General Information | 7 |
| 3.1 General Description of EUT | 7 |
| 3.2 Description of Test Modes | 8 |
| 3.2.1 Test Mode Applicability and Tested Channel Detail | 9 |
| 3.3 Duty Cycle of Test Signal | 11 |
| 3.4 Description of Support Units | 12 |
| 3.4.1 Configuration of System under Test | 12 |
| 3.5 General Description of Applied Standards | 13 |
| 4 Test Types and Results | 14 |
| 4.1 Radiated Emission and Bandedge Measurement | 14 |
| 4.1.1 Limits of Radiated Emission and Bandedge Measurement | 14 |
| 4.1.2 Test Instruments | 15 |
| 4.1.3 Test Procedures | 17 |
| 4.1.4 Deviation from Test Standard | 17 |
| 4.1.5 Test Setup | 18 |
| 4.1.6 EUT Operating Conditions | 19 |
| 4.1.7 Test Results | 20 |
| 4.2 Conducted Emission Measurement | 24 |
| 4.2.1 Limits of Conducted Emission Measurement | 24 |
| 4.2.2 Test Instruments | 24 |
| 4.2.3 Test Procedures | 25 |
| 4.2.4 Deviation from Test Standard | 25 |
| 4.2.5 Test Setup | 25 |
| 4.2.6 EUT Operating Conditions | 25 |
| 4.2.7 Test Results | 26 |
| 4.3 6dB Bandwidth Measurement | 28 |
| 4.3.1 Limits of 6dB Bandwidth Measurement | 28 |
| 4.3.2 Test Setup | 28 |
| 4.3.3 Test Instruments | 28 |
| 4.3.4 Test Procedure | 28 |
| 4.3.5 Deviation from Test Standard | 28 |
| 4.3.6 EUT Operating Conditions | 28 |
| 4.3.7 Test Result | 29 |
| 4.4 Conducted Output Power Measurement | 30 |
| 4.4.1 Limits OF Conducted Output Power Measurement | 30 |
| 4.4.2 Test Setup | 30 |
| 4.4.3 Test Instruments | 30 |
| 4.4.4 Test Procedures | 30 |
| 4.4.5 Deviation from Test Standard | 30 |
| 4.4.6 EUT Operating Conditions | 30 |
| 4.4.7 Test Results | 31 |
| 4.5 Power Spectral Density Measurement | 32 |
| 4.5.1 Limits of Power Spectral Density Measurement | 32 |
| 4.5.2 Test Setup | 32 |
| 4.5.3 Test Instruments | 32 |
| 4.5.4 Test Procedure | 32 |
| 4.5.5 Deviation from Test Standard | 32 |
| 4.5.6 EUT Operating Condition | 32 |

| | |
|---|-----------|
| 4.5.7 Test Results | 33 |
| 4.6 Conducted Out of Band Emission Measurement | 34 |
| 4.6.1 Limits of Conducted Out of Band Emission Measurement..... | 34 |
| 4.6.2 Test Setup..... | 34 |
| 4.6.3 Test Instruments | 34 |
| 4.6.4 Test Procedure | 34 |
| 4.6.5 Deviation from Test Standard | 34 |
| 4.6.6 EUT Operating Condition | 34 |
| 4.6.7 Test Results | 35 |
| 5 Pictures of Test Arrangements..... | 36 |
| Appendix – Information on the Testing Laboratories | 37 |

Release Control Record

| Issue No. | Description | Date Issued |
|---------------|-------------------|---------------|
| RF170918E11-3 | Original release. | Nov. 23, 2017 |

1 Certificate of Conformity

Product: 11ac+BT Combo Module

Brand: Epson

Test Model: J26H005

Sample Status: ENGINEERING SAMPLE

Applicant: Seiko Epson Corporation

Test Date: Sep. 27 to Oct. 06, 2017

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)
ANSI C63.10: 2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Wendy Wu , **Date:** Nov. 23, 2017
Wendy Wu / Specialist

Approved by : May Chen , **Date:** Nov. 23, 2017
May Chen / Manager

2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart C (SECTION 15.247) | | | |
|--|--|--------|---|
| FCC Clause | Test Item | Result | Remarks |
| 15.207 | AC Power Conducted Emission | PASS | Meet the requirement of limit. Minimum passing margin is -8.86dB at 16.46484MHz. |
| 15.205 & 209 & 15.247(d) | Radiated Emissions & Band Edge Measurement | PASS | Meet the requirement of limit. Minimum passing margin is -2.8dB at 2483.50MHz. |
| 15.247(d) | Antenna Port Emission | PASS | Meet the requirement of limit. |
| 15.247(a)(2) | 6dB bandwidth | PASS | Meet the requirement of limit. |
| 15.247(b) | Conducted power | PASS | Meet the requirement of limit. |
| 15.247(e) | Power Spectral Density | PASS | Meet the requirement of limit. |
| 15.203 | Antenna Requirement | PASS | No antenna connector is used. |

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement | Frequency | Expanded Uncertainty (k=2) (\pm) |
|------------------------------------|----------------|--------------------------------------|
| Conducted Emissions at mains ports | 150kHz ~ 30MHz | 1.84 dB |
| Radiated Emissions up to 1 GHz | 30MHz ~ 1GHz | 5.32 dB |
| | 1GHz ~ 6GHz | 5.14 dB |
| Radiated Emissions above 1 GHz | 6GHz ~ 18GHz | 5.04 dB |
| | 18GHz ~ 40GHz | 5.25 dB |

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

| | |
|-----------------------|----------------------------|
| Product | 11ac+BT Combo Module |
| Brand | Epson |
| Test Model | J26H005 |
| Status of EUT | ENGINEERING SAMPLE |
| Power Supply Rating | 3.3Vdc from host equipment |
| Modulation Type | GFSK |
| Modulation Technology | DTS |
| Transfer Rate | Up to 1Mbps |
| Operating Frequency | 2402MHz ~ 2480MHz |
| Number of Channel | 40 |
| Output Power | 14.791mW |
| Antenna Type | Refer to Note |
| Antenna Connector | Refer to Note |
| Accessory Device | NA |
| Data Cable Supplied | NA |

Note:

1. There are WLAN, BT technology used for the EUT.
2. Simultaneously transmission condition.

| Condition | Technology | | |
|-----------|-------------|-----------|-----------|
| 1 | WLAN 2.4GHz | WLAN 5GHz | Bluetooth |

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

3. The antennas provided to the EUT, please refer to the following table:

| Ant No. | Antenna Gain (dBi) | Frequency rang (GHz) | Antenna type | Connector type |
|---------|--------------------|----------------------|--------------|----------------|
| 1 | 3.09 | 2.4~2.4835 | PCB Printed | none |
| | 5.94 | 5.15~5.25 | | |
| | 5.94 | 5.25~5.35 | | |
| | 6.29 | 5.47~5.725 | | |
| | 7.12 | 5.725~5.85 | | |
| 2 | 2.53 | 2.4~2.4835 | PCB Printed | none |
| | 3.94 | 5.15~5.25 | | |
| | 3.94 | 5.25~5.35 | | |
| | 5.10 | 5.47~5.725 | | |
| | 5.23 | 5.725~5.85 | | |

Note: This report chose the max. Antenna gain to do final test.

4. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Description of Test Modes

40 channels are provided to this EUT:

| CHANNEL | FREQ. (MHz) | CHANNEL | FREQ. (MHz) | CHANNEL | FREQ. (MHz) | CHANNEL | FREQ. (MHz) |
|---------|----------------|---------|----------------|---------|----------------|---------|----------------|
| 0 | 2402 | 10 | 2422 | 20 | 2442 | 30 | 2462 |
| 1 | 2404 | 11 | 2424 | 21 | 2444 | 31 | 2464 |
| 2 | 2406 | 12 | 2426 | 22 | 2446 | 32 | 2466 |
| 3 | 2408 | 13 | 2428 | 23 | 2448 | 33 | 2468 |
| 4 | 2410 | 14 | 2430 | 24 | 2450 | 34 | 2470 |
| 5 | 2412 | 15 | 2432 | 25 | 2452 | 35 | 2472 |
| 6 | 2414 | 16 | 2434 | 26 | 2454 | 36 | 2474 |
| 7 | 2416 | 17 | 2436 | 27 | 2456 | 37 | 2476 |
| 8 | 2418 | 18 | 2438 | 28 | 2458 | 38 | 2478 |
| 9 | 2420 | 19 | 2440 | 29 | 2460 | 39 | 2480 |

3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT CONFIGURE MODE | APPLICABLE TO | | | | DESCRIPTION |
|--------------------|---------------|-------|-----|------|-------------|
| | RE \geq 1G | RE<1G | PLC | APCM | |
| - | √ | √ | √ | √ | - |

Where **RE \geq 1G**: Radiated Emission above 1GHz **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement

NOTE: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.

Radiated Emission Test (Above 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TYPE | DATA RATE (Mbps) |
|-------------------|----------------|-----------------|------------------|
| 0 to 39 | 0, 19, 39 | GFSK | 1 |

Radiated Emission Test (Below 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TYPE | DATA RATE (Mbps) |
|-------------------|----------------|-----------------|------------------|
| 0 to 39 | 39 | GFSK | 1 |

Power Line Conducted Emission Test:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TYPE | DATA RATE (Mbps) |
|-------------------|----------------|-----------------|------------------|
| 0 to 39 | 39 | GFSK | 1 |

Antenna Port Conducted Measurement:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TYPE | DATA RATE (Mbps) |
|-------------------|----------------|-----------------|------------------|
| 0 to 39 | 0, 19, 39 | GFSK | 1 |

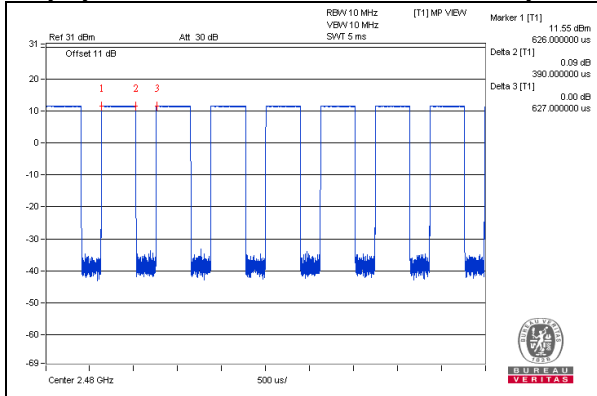
Test Condition:

| APPLICABLE TO | ENVIRONMENTAL CONDITIONS | INPUT POWER (System) | TESTED BY |
|---------------|--------------------------|----------------------|---------------|
| RE \geq 1G | 23deg. C, 68%RH | 120Vac, 60Hz | Weiwei Lo |
| RE $<$ 1G | 23deg. C, 68%RH | 120Vac, 60Hz | Weiwei Lo |
| PLC | 26deg. C, 74%RH | 120Vac, 60Hz | Andy Ho |
| APCM | 25deg. C, 60%RH | 120Vac, 60Hz | Anderson Chen |

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is < 98 %, duty factor shall be considered.

Duty cycle = $0.39 \text{ ms} / 0.627 \text{ ms} = 0.622$, Duty factor = $10 * \log(1/0.622) = 2.06$



3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

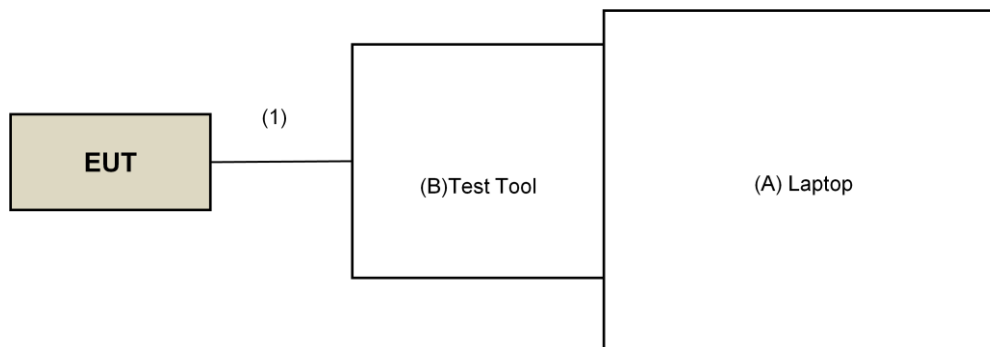
| ID | Product | Brand | Model No. | Serial No. | FCC ID | Remarks |
|----|-----------|---------|-----------|------------|---------|--------------------|
| A. | Laptop | DELL | E6420 | 482T3R1 | FCC DoC | Provided by Lab |
| B. | Test Tool | HON HAI | NA | NA | NA | Supplied by client |

Note:

1. All power cords of the above support units are non-shielded (1.8m).

| ID | Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks |
|----|---------------|------|------------|--------------------|--------------|----------------------------------|
| 1. | Console Cable | 1 | 0.06 | No | 0 | Supplied by client(for RF Setup) |

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.247)
KDB 558074 D01 DTS Meas Guidance v04
ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

NOTE: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

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

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.1.2 Test Instruments

For below 1GHz test:

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|--|----------------------|-------------------------------|-----------------|------------------|
| Test Receiver Agilent | N9038A | MY50010156 | July 12, 2017 | July 11, 2018 |
| Pre-Amplifier ^(*) EMCI | EMC001340 | 980142 | Jan. 20, 2016 | Jan. 19, 2018 |
| Loop Antenna ^(*) Electro-Metrics | EM-6879 | 264 | Dec. 16, 2016 | Dec. 15, 2018 |
| RF Cable | NA | LOOPCAB-001 LOOPCAB-002 | Jan. 17, 2017 | Jan. 16, 2018 |
| Pre-Amplifier Mini-Circuits | ZFL-1000VH2B | AMP-ZFL-05 | May 06, 2017 | May 05, 2018 |
| Trilog Broadband Antenna SCHWARZBECK | VULB 9168 | 9168-361 | Dec. 29, 2016 | Dec. 28, 2017 |
| RF Cable | 8D | 966-3-1 966-3-2 966-3-3 | Apr. 01, 2017 | Mar. 31, 2018 |
| Fixed attenuator Mini-Circuits | UNAT-5+ | PAD-3m-3-01 | Oct. 03, 2017 | Oct. 02, 2018 |
| Software | ADT_Radiated_V8.7.08 | NA | NA | NA |
| Antenna Tower & Turn Table Max-Full | MF-7802 | MF780208406 | NA | NA |

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. *The calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in 966 Chamber No. 3.
4. Loop antenna was used for all emissions below 30 MHz.
5. The CANADA Site Registration No. is 20331-1
6. Tested Date: Oct. 06, 2017

For other test:

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|--|---|----------------------------|---|---|
| Test Receiver Agilent | N9038A | MY50010156 | July 12, 2017 | July 11, 2018 |
| Horn_Antenna SCHWARZBECK | BBHA9120-D | 9120D-406 | Dec. 28, 2016 | Dec. 27, 2017 |
| Pre-Amplifier EMCI | EMC12630SE | 980384 | Feb. 02, 2017 | Feb. 01, 2018 |
| RF Cable | EMC104-SM-SM-1200 EMC104-SM-SM-2000 EMC104-SM-SM-5000 | 160922 150317 150322 | Feb. 02, 2017 Mar. 29, 2017 Mar. 29, 2017 | Feb. 01, 2018 Mar. 28, 2018 Mar. 28, 2018 |
| Spectrum Analyzer Keysight | N9030A | MY54490679 | July 25, 2017 | July 24, 2018 |
| Pre-Amplifier EMCI | EMC184045SE | 980386 | Feb. 02, 2017 | Feb. 01, 2018 |
| Horn_Antenna SCHWARZBECK | BBHA 9170 | BBHA9170608 | Dec. 15, 2016 | Dec. 14, 2017 |
| RF Cable | SUCOFLEX 102 | 36432/2 36433/2 | Jan. 15, 2017 | Jan. 14, 2018 |
| Software | ADT_Radiated_V8.7.08 | NA | NA | NA |
| Antenna Tower & Turn Table Max-Full | MF-7802 | MF780208406 | NA | NA |
| Boresight Antenna Fixture | FBA-01 | FBA-SIP01 | NA | NA |
| Spectrum Analyzer R&S | FSv40 | 100964 | July 1, 2017 | June 30, 2018 |
| Power meter Anritsu | ML2495A | 1014008 | May 11, 2017 | May 10, 2018 |
| Power sensor Anritsu | MA2411B | 0917122 | May 11, 2017 | May 10, 2018 |

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 3.
3. The CANADA Site Registration No. is 20331-1
- 4 Tested Date: Sep. 27 to 30 2017

4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Both X and Y axes of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

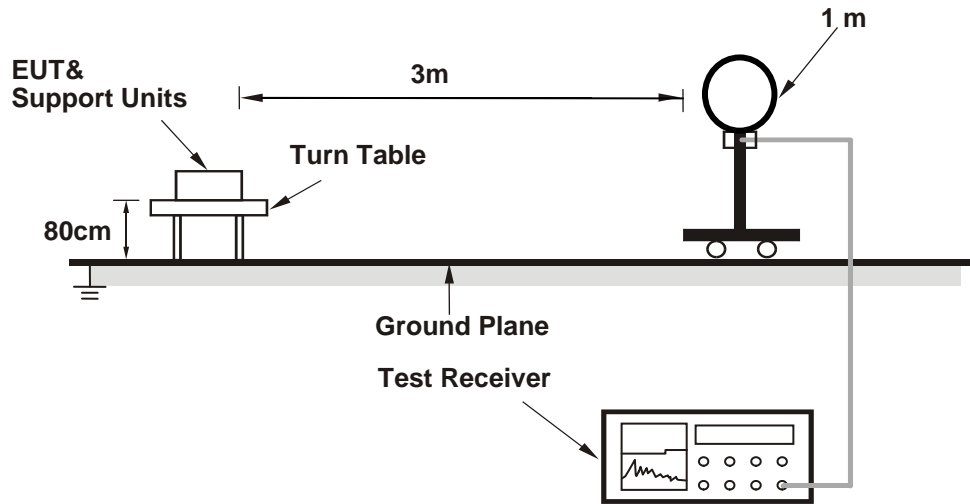
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

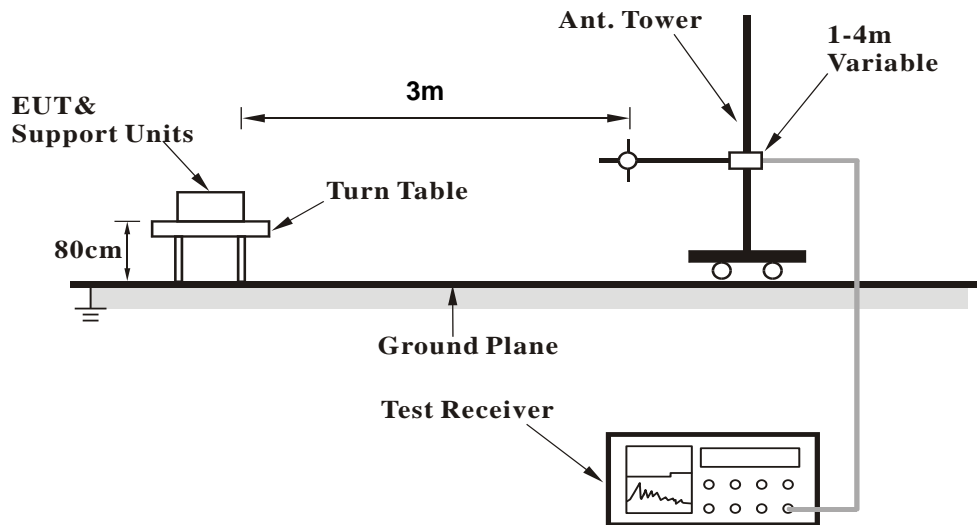
No deviation.

4.1.5 Test Setup

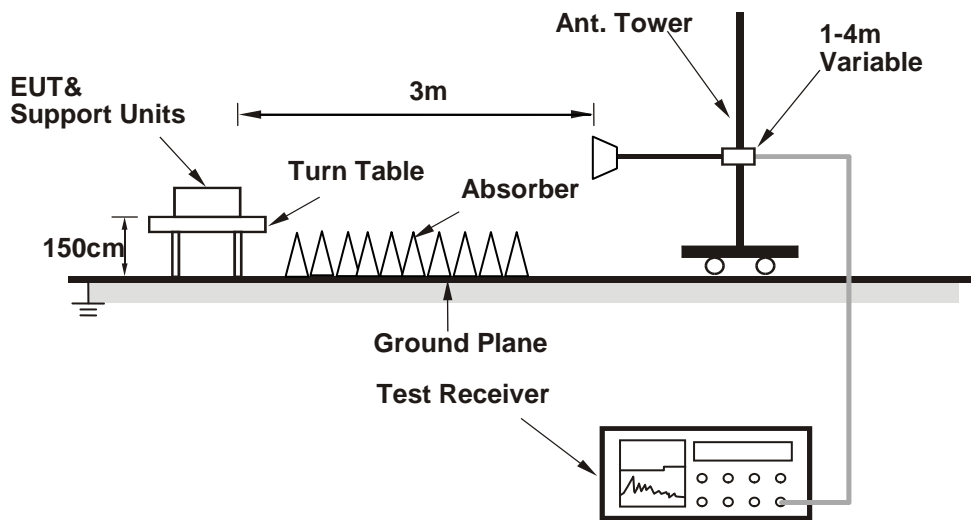
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

- a. Connected the EUT with the Laptop.
- b. Controlling software (RTLBTAPP.exe[Ver 5.0.0.0]) has been activated to set the EUT on specific status.

4.1.7 Test Results

Above 1GHz Data:

| | | | |
|------------------------|--------------|------------------------------|--------------|
| CHANNEL | TX Channel 0 | DETECTOR FUNCTION | Peak (PK) |
| FREQUENCY RANGE | 1GHz ~ 25GHz | | Average (AV) |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 2390.00 | 46.9 PK | 74.0 | -27.1 | 3.09 H | 203 | 48.5 | -1.6 |
| 2 | 2390.00 | 39.6 AV | 54.0 | -14.4 | 3.09 H | 203 | 41.2 | -1.6 |
| 3 | *2402.00 | 98.3 PK | | | 3.09 H | 203 | 99.8 | -1.5 |
| 4 | *2402.00 | 97.2 AV | | | 3.09 H | 203 | 98.7 | -1.5 |
| 5 | 4804.00 | 49.8 PK | 74.0 | -24.2 | 2.25 H | 349 | 46.8 | 3.0 |
| 6 | 4804.00 | 47.1 AV | 54.0 | -6.9 | 2.25 H | 349 | 44.1 | 3.0 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 2390.00 | 47.6 PK | 74.0 | -26.4 | 1.60 V | 248 | 49.2 | -1.6 |
| 2 | 2390.00 | 41.3 AV | 54.0 | -12.7 | 1.60 V | 248 | 42.9 | -1.6 |
| 3 | *2402.00 | 106.6 PK | | | 1.60 V | 248 | 108.1 | -1.5 |
| 4 | *2402.00 | 105.8 AV | | | 1.60 V | 248 | 107.3 | -1.5 |
| 5 | 4804.00 | 46.5 PK | 74.0 | -27.5 | 1.50 V | 222 | 43.5 | 3.0 |
| 6 | 4804.00 | 43.9 AV | 54.0 | -10.1 | 1.50 V | 222 | 40.9 | 3.0 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

| | | | |
|------------------------|---------------|------------------------------|--------------|
| CHANNEL | TX Channel 19 | DETECTOR FUNCTION | Peak (PK) |
| FREQUENCY RANGE | 1GHz ~ 25GHz | | Average (AV) |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *2440.00 | 96.9 PK | | | 3.07 H | 206 | 98.4 | -1.5 |
| 2 | *2440.00 | 95.9 AV | | | 3.07 H | 206 | 97.4 | -1.5 |
| 3 | 4880.00 | 49.8 PK | 74.0 | -24.2 | 2.25 H | 349 | 46.6 | 3.2 |
| 4 | 4880.00 | 47.1 AV | 54.0 | -6.9 | 2.25 H | 349 | 43.9 | 3.2 |
| 5 | 7320.00 | 46.6 PK | 74.0 | -27.4 | 2.11 H | 315 | 37.7 | 8.9 |
| 6 | 7320.00 | 37.6 AV | 54.0 | -16.4 | 2.11 H | 315 | 28.7 | 8.9 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *2440.00 | 105.2 PK | | | 1.54 V | 245 | 106.7 | -1.5 |
| 2 | *2440.00 | 104.5 AV | | | 1.54 V | 245 | 106.0 | -1.5 |
| 3 | 4880.00 | 46.8 PK | 74.0 | -27.2 | 1.46 V | 224 | 43.6 | 3.2 |
| 4 | 4880.00 | 44.0 AV | 54.0 | -10.0 | 1.46 V | 224 | 40.8 | 3.2 |
| 5 | 7320.00 | 44.0 PK | 74.0 | -30.0 | 1.34 V | 190 | 35.1 | 8.9 |
| 6 | 7320.00 | 35.0 AV | 54.0 | -19.0 | 1.34 V | 190 | 26.1 | 8.9 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

| | | | |
|------------------------|---------------|------------------------------|--------------|
| CHANNEL | TX Channel 39 | DETECTOR FUNCTION | Peak (PK) |
| FREQUENCY RANGE | 1GHz ~ 25GHz | | Average (AV) |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *2480.00 | 95.9 PK | | | 3.14 H | 199 | 97.3 | -1.4 |
| 2 | *2480.00 | 95.1 AV | | | 3.14 H | 199 | 96.5 | -1.4 |
| 3 | 2483.50 | 69.9 PK | 74.0 | -4.1 | 3.14 H | 199 | 71.3 | -1.4 |
| 4 | 2483.50 | 46.5 AV | 54.0 | -7.5 | 3.14 H | 199 | 47.9 | -1.4 |
| 5 | 4960.00 | 49.8 PK | 74.0 | -24.2 | 2.25 H | 349 | 46.6 | 3.2 |
| 6 | 4960.00 | 47.1 AV | 54.0 | -6.9 | 2.25 H | 349 | 43.9 | 3.2 |
| 7 | 7440.00 | 46.6 PK | 74.0 | -27.4 | 2.11 H | 315 | 37.4 | 9.2 |
| 8 | 7440.00 | 37.6 AV | 54.0 | -16.4 | 2.11 H | 315 | 28.4 | 9.2 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|----------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *2480.00 | 104.5 PK | | | 1.52 V | 250 | 105.9 | -1.4 |
| 2 | *2480.00 | 103.7 AV | | | 1.52 V | 250 | 105.1 | -1.4 |
| 3 | 2483.50 | 71.2 PK | 74.0 | -2.8 | 1.52 V | 250 | 72.6 | -1.4 |
| 4 | 2483.50 | 48.2 AV | 54.0 | -5.8 | 1.52 V | 250 | 49.6 | -1.4 |
| 5 | 4960.00 | 46.8 PK | 74.0 | -27.2 | 1.51 V | 218 | 43.6 | 3.2 |
| 6 | 4960.00 | 43.9 AV | 54.0 | -10.1 | 1.51 V | 218 | 40.7 | 3.2 |
| 7 | 7440.00 | 44.5 PK | 74.0 | -29.5 | 1.30 V | 191 | 35.3 | 9.2 |
| 8 | 7440.00 | 35.3 AV | 54.0 | -18.7 | 1.30 V | 191 | 26.1 | 9.2 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

Below 1GHz Data:

| | | | |
|------------------------|---------------|------------------------------|-----------------|
| CHANNEL | TX Channel 39 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz | | |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 121.67 | 24.7 QP | 43.5 | -18.8 | 1.50 H | 88 | 34.7 | -10.0 |
| 2 | 213.06 | 27.0 QP | 43.5 | -16.5 | 1.50 H | 88 | 38.5 | -11.5 |
| 3 | 371.37 | 24.0 QP | 46.0 | -22.0 | 2.00 H | 29 | 29.9 | -5.9 |
| 4 | 538.64 | 28.0 QP | 46.0 | -18.0 | 2.00 H | 206 | 30.4 | -2.4 |
| 5 | 759.76 | 30.0 QP | 46.0 | -16.0 | 2.00 H | 360 | 28.3 | 1.7 |
| 6 | 913.23 | 34.0 QP | 46.0 | -12.0 | 1.00 H | 360 | 30.6 | 3.4 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 67.68 | 36.9 QP | 40.0 | -3.1 | 1.50 V | 77 | 47.0 | -10.1 |
| 2 | 120.06 | 30.6 QP | 43.5 | -12.9 | 1.50 V | 38 | 40.7 | -10.1 |
| 3 | 140.34 | 32.8 QP | 43.5 | -10.7 | 1.50 V | 79 | 41.3 | -8.5 |
| 4 | 214.15 | 28.3 QP | 43.5 | -15.2 | 1.50 V | 56 | 39.7 | -11.4 |
| 5 | 269.78 | 35.2 QP | 46.0 | -10.8 | 1.50 V | 40 | 43.8 | -8.6 |
| 6 | 789.75 | 31.1 QP | 46.0 | -14.9 | 2.00 V | 56 | 29.1 | 2.0 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

| Frequency (MHz) | Conducted Limit (dBuV) | |
|-----------------|------------------------|---------|
| | Quasi-peak | Average |
| 0.15 - 0.5 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30.0 | 60 | 50 |

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|--|-------------------------|------------|-----------------|------------------|
| Test Receiver R&S | ESCS 30 | 847124/029 | Oct. 24, 2016 | Oct. 23, 2017 |
| Line-Impedance Stabilization Network (for EUT) R&S | ESH3-Z5 | 848773/004 | Oct. 26, 2016 | Oct. 25, 2017 |
| Line-Impedance Stabilization Network (for Peripheral) R&S | ENV216 | 100072 | June 03, 2017 | June 02, 2018 |
| 50 ohms Terminator | N/A | EMC-02 | Sep. 22, 2017 | Sep. 21, 2018 |
| RF Cable | 5D-FB | COCCAB-001 | Sep. 29, 2017 | Sep. 28, 2018 |
| 10 dB PAD Mini-Circuits | HAT-10+ | CONATT-004 | June 18, 2017 | June 17, 2018 |
| Software BVADT | BVADT_Cond_ V7.3.7.4 | NA | NA | NA |

Note:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. 1.
3. Tested Date: Oct. 04, 2017

4.2.3 Test Procedures

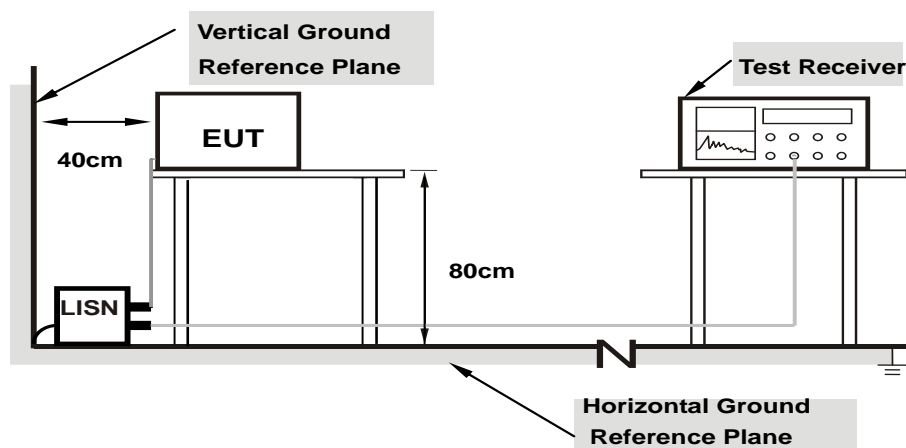
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT Operating Conditions

Same as 4.1.6.

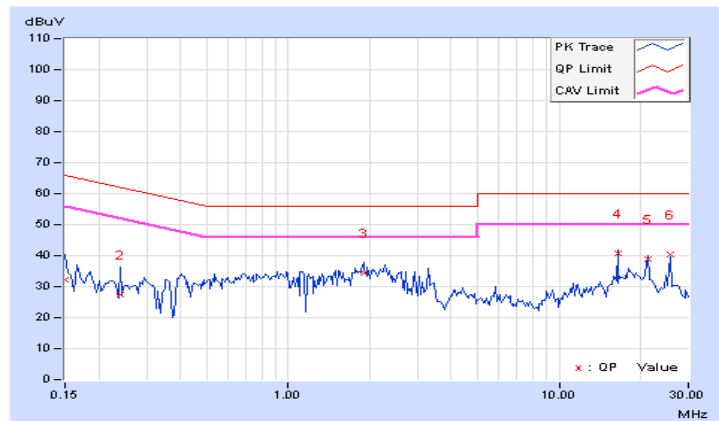
4.2.7 Test Results

| Phase | Line (L) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|----------|-------------------|--------------------------------|
|-------|----------|-------------------|--------------------------------|

| No | Freq. [MHz] | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | Factor (dB) | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.15000 | 10.07 | 22.27 | 10.78 | 32.34 | 20.85 | 66.00 | 56.00 | -33.66 | -35.15 |
| 2 | 0.23984 | 10.07 | 17.50 | 7.77 | 27.57 | 17.84 | 62.10 | 52.10 | -34.53 | -34.26 |
| 3 | 1.90625 | 10.14 | 24.16 | 15.71 | 34.30 | 25.85 | 56.00 | 46.00 | -21.70 | -20.15 |
| 4 | 16.46484 | 11.06 | 29.70 | 29.47 | 40.76 | 40.53 | 60.00 | 50.00 | -19.24 | -9.47 |
| 5 | 21.16797 | 11.30 | 27.74 | 26.73 | 39.04 | 38.03 | 60.00 | 50.00 | -20.96 | -11.97 |
| 6 | 25.87197 | 11.33 | 29.07 | 28.10 | 40.40 | 39.43 | 60.00 | 50.00 | -19.60 | -10.57 |

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

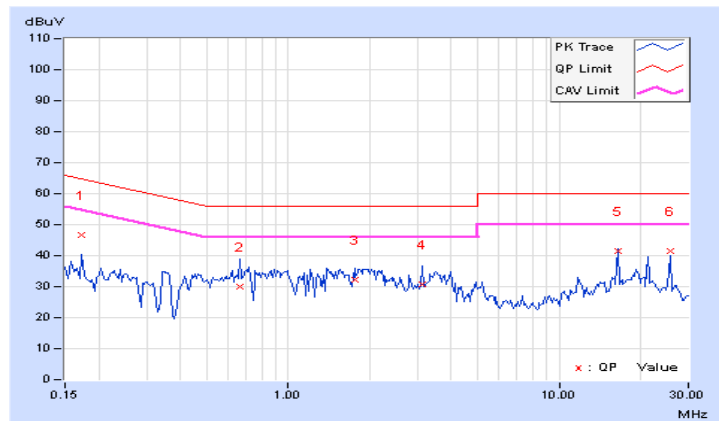


| | | | |
|-------|-------------|-------------------|--------------------------------|
| Phase | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|-------------|-------------------|--------------------------------|

| No | Freq. [MHz] | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----------|-----------------|--------------|---------------|--------------|----------------|--------------|--------------|--------------|---------------|--------------|
| | | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.17344 | 10.05 | 36.74 | 9.86 | 46.79 | 19.91 | 64.79 | 54.79 | -18.00 | -34.88 |
| 2 | 0.66563 | 10.10 | 19.72 | 14.08 | 29.82 | 24.18 | 56.00 | 46.00 | -26.18 | -21.82 |
| 3 | 1.75391 | 10.16 | 22.09 | 14.27 | 32.25 | 24.43 | 56.00 | 46.00 | -23.75 | -21.57 |
| 4 | 3.13672 | 10.20 | 20.62 | 11.35 | 30.82 | 21.55 | 56.00 | 46.00 | -25.18 | -24.45 |
| 5 | 16.46484 | 10.85 | 30.58 | 30.29 | 41.43 | 41.14 | 60.00 | 50.00 | -18.57 | -8.86 |
| 6 | 25.87500 | 10.97 | 30.43 | 28.58 | 41.40 | 39.55 | 60.00 | 50.00 | -18.60 | -10.45 |

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

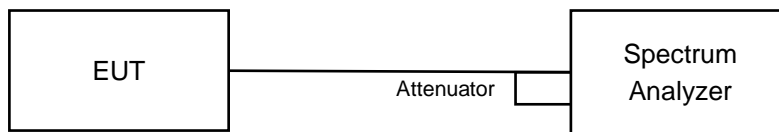


4.3 6dB Bandwidth Measurement

4.3.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

- a. Set resolution bandwidth (RBW) = 100kHz
- b. Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

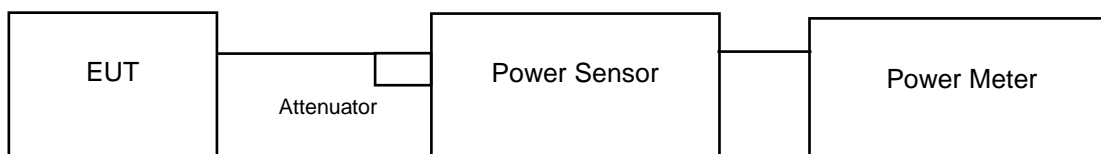
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.4 Conducted Output Power Measurement

4.4.1 Limits OF Conducted Output Power Measurement

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedures

A peak / average power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak / average power sensor. Record the power level.

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Conditions

Same as Item 4.3.6.

4.4.7 Test Results

FOR PEAK POWER

| Channel | Frequency (MHz) | Peak Power (mW) | Peak Power (dBm) | Limit (dBm) | Pass/Fail |
|---------|-----------------|-----------------|------------------|-------------|-----------|
| 0 | 2402 | 13.49 | 11.30 | 30 | Pass |
| 19 | 2440 | 13.552 | 11.32 | 30 | Pass |
| 39 | 2480 | 14.791 | 11.70 | 30 | Pass |

FOR AVERAGE POWER

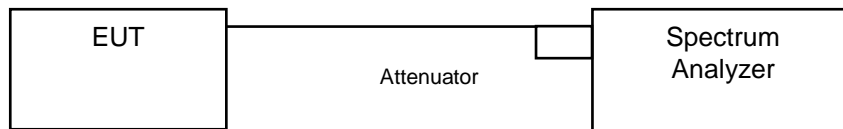
| Channel | Frequency (MHz) | Average Power (mW) | Average Power (dBm) |
|---------|-----------------|--------------------|---------------------|
| 0 | 2402 | 13.213 | 11.21 |
| 19 | 2440 | 13.243 | 11.22 |
| 39 | 2480 | 14.588 | 11.64 |

4.5 Power Spectral Density Measurement

4.5.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

- a. Set analyzer center frequency to DTS channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d. Set the VBW $\geq 3 \times \text{RBW}$.
- e. Detector = peak.
- f. Sweep time = auto couple.
- g. Trace mode = max hold.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level within the RBW.

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

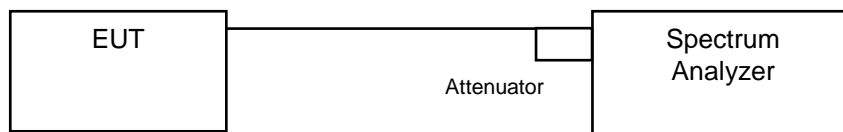
Same as Item 4.3.6

4.6 Conducted Out of Band Emission Measurement

4.6.1 Limits of Conducted Out of Band Emission Measurement

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW \geq 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW \geq 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

4.6.5 Deviation from Test Standard

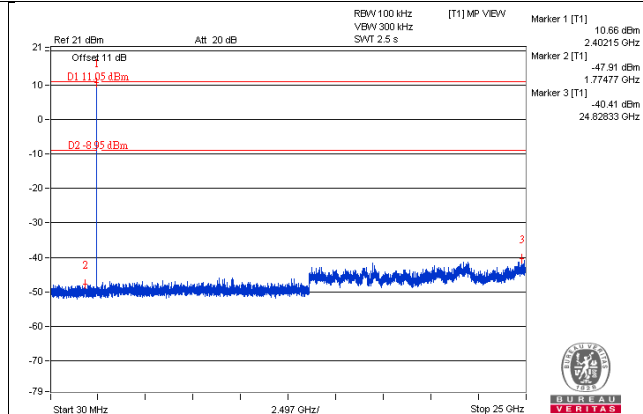
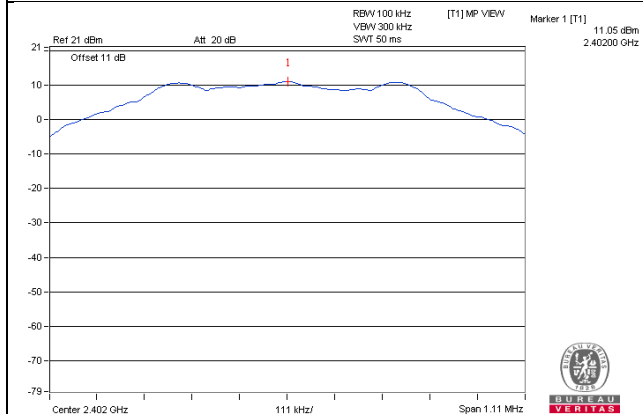
No deviation.

4.6.6 EUT Operating Condition

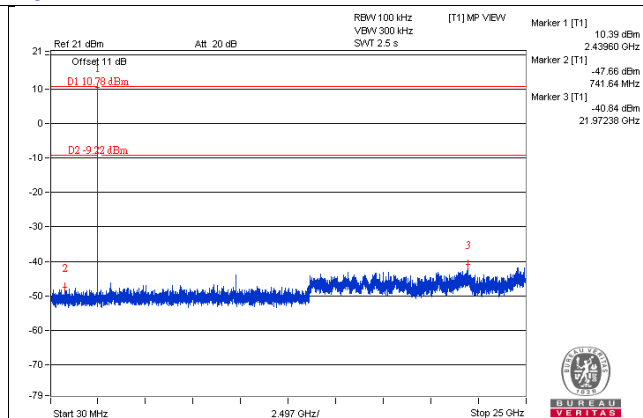
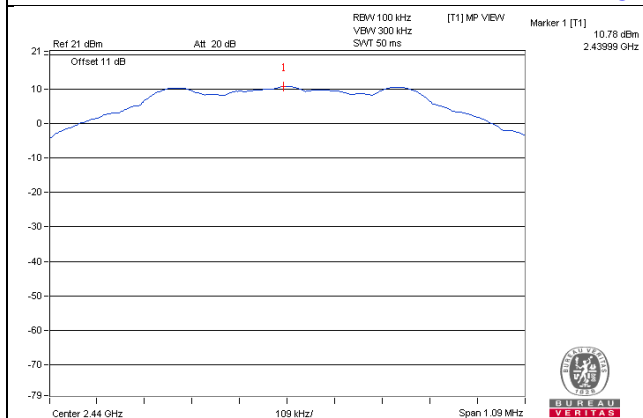
Same as Item 4.3.6

4.6.7 Test Results

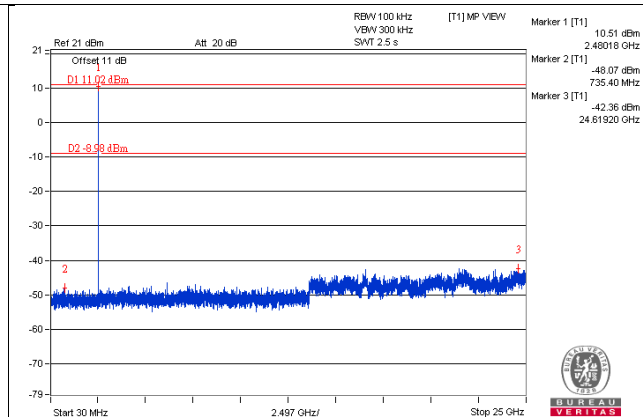
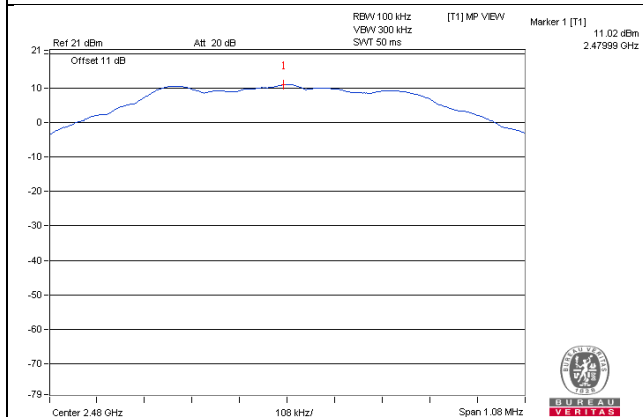
CH 0



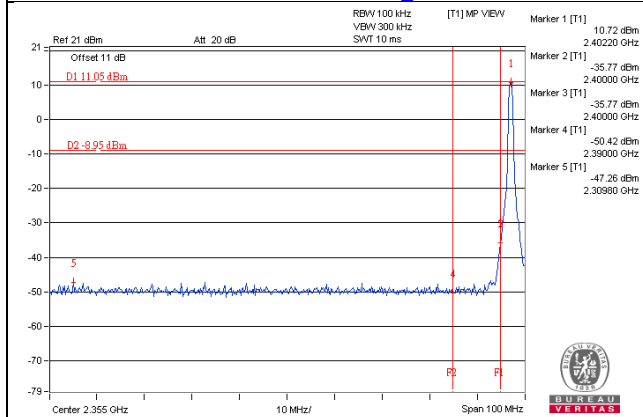
CH 19



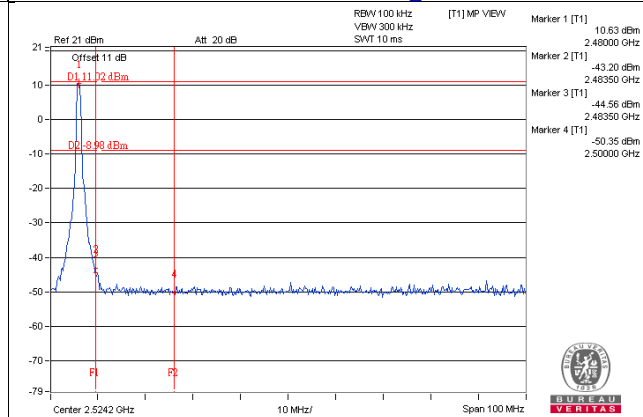
CH 39



CH 0 Band edge



CH 39 Band edge



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

--- END ---