



Neutron Engineering Inc.

Radio Test Report

FCC ID: H4IDG8882

This report concerns (check one) : Original Grant Class II Change

Issued Date : Feb. 27, 2013
Project No. : 1302027
Equipment : Dongle
Model Name : SD-8882

Applicant : LITE-ON TECHNOLOGY CORP.
Address : 90, Chien 1 Road, Chung Ho, Taipei
Hsien 235, Taiwan, R.O.C.

Tested by: Neutron Engineering Inc. EMC Laboratory
Date of Receipt: Feb. 05, 2013
Date of Test: Feb. 05, 2013 ~ Feb. 25, 2013

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Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.



Table of Contents

| | |
|--|----|
| REPORT ISSUED HISTORY | 5 |
| 1 CERTIFICATION | 6 |
| 2 . SUMMARY OF TEST RESULTS | 7 |
| 2.1 TEST FACILITY | 8 |
| 2.2 MEASUREMENT UNCERTAINTY | 8 |
| 3 GENERAL INFORMATION | 9 |
| 3.1 GENERAL DESCRIPTION OF EUT | 9 |
| 3.2 DESCRIPTION OF TEST MODES | 11 |
| 3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED | 12 |
| 3.4 DESCRIPTION OF SUPPORT UNITS | 13 |
| 4 CONDUCTED EMISSION | 14 |
| 4.1 LIMIT | 14 |
| 4.2 MEASUREMENT INSTRUMENTS LIST | 14 |
| 4.3 TEST PROCEDURES | 15 |
| 4.4 TEST SETUP LAYOUT | 15 |
| 4.5 DEVIATION FROM TEST STANDARD | 15 |
| 4.6 EUT OPERATING CONDITIONS | 16 |
| 4.7 TEST RESULTS | 17 |
| 5 RADIATED SPURIOUS EMISSION (9 KHZ TO 1 GHZ) | 19 |
| 5.1 LIMIT | 19 |
| 5.2 MEASUREMENT INSTRUMENTS LIST | 20 |
| 5.3 MEASURING INSTRUMENTS SETTING | 20 |
| 5.4 TEST PROCEDURES | 22 |
| 5.5 DEVIATION FROM TEST STANDARD | 22 |
| 5.6 TEST SETUP LAYOUT | 22 |
| 5.7 EUT OPERATING CONDITIONS | 23 |
| 5.8 TEST RESULTS | 24 |
| 6 RADIATED SPURIOUS EMISSION (ABOVE 1 GHZ) | 26 |
| 6.1 LIMIT | 26 |
| 6.2 MEASUREMENT INSTRUMENTS LIST | 27 |
| 6.3 MEASURING INSTRUMENTS SETTING | 27 |
| 6.4 TEST PROCEDURES | 28 |
| 6.5 DEVIATION FROM TEST STANDARD | 28 |
| 6.6 TEST SETUP LAYOUT | 28 |
| 6.7 EUT OPERATING CONDITIONS | 29 |
| 6.8 TEST RESULTS | 30 |
| 6.9 TEST RESULTS (RESTRICTED BANDS) | 42 |
| 6.10 TEST RESULTS - THE TENTH HARMONIC | 46 |



Table of Contents

| | | |
|---|----------------|----|
| 7 | EUT TEST PHOTO | 48 |
|---|----------------|----|



REPORT ISSUED HISTORY

| Revised Version No. | Description | Issued Date |
|---------------------|----------------|---------------|
| - | Initial Issue. | Feb. 27, 2013 |



1 CERTIFICATION

Equipment : Dongle
Brand Name : LITEON
Model Name : SD-8882
Applicant : LITE-ON TECHNOLOGY CORP.
Date of Test : Feb. 05, 2013 ~ Feb. 25, 2013
Standards : RSS-210, Issue 8, 2010
FCC Part 15, Subpart C: 2012
ANSI C63.4: 2009

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-1302027) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).



2. SUMMARY OF TEST RESULTS

| FCC Part 15, Subpart C: 2012 | | |
|------------------------------|----------------------------|-------------|
| Standard Clause | Test Item | Result |
| 15.207 | Conducted Emission | PASS |
| 15.249(d) or 15.209 | Radiated Spurious Emission | PASS |
| 15.205 | Restricted Bands | PASS |

NOTE:

- (1) N/A: denotes test is not applicable in this Test Report
- (2) Portable device; SAR report is required.



2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

Conducted emission Test:

C03: B1, No. 37, Lane 365, YangGuang St., NeiHu District 114, Taipei, Taiwan.

Radiated emission Test (Below 1 GHz):

CB08: (FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428C-1)
1F., No. 61, Ln. 77, Sing-ai Rd., NeiHu Dist., Taipei City 114, Taiwan (R.O.C.)

Radiated emission Test (Above 1 GHz):

CB08: (VCCI RN: G-91; FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428C-1)
1F., No. 61, Ln. 77, Sing-ai Rd., NeiHu Dist., Taipei City 114, Taiwan (R.O.C.)

2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty is not specified by FCC/Industry Canada rules and for reference only.

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2.

A. Conducted emission test:

| Test Site | Measurement Frequency Range | U, (dB) | NOTE |
|-----------|-----------------------------|---------|------|
| C03 | 150 kHz ~ 30 MHz | 1.94 | |

B. Radiated emission test:

| Test Site | Item | Measurement Frequency Range | Uncertainty | NOTE | |
|-----------|-------------------------|-----------------------------|---------------|---------|--|
| CB08 | Radiated emission at 3m | Horizontal Polarization | 30 - 200MHz | 3.35 dB | |
| | | | 200 - 1000MHz | 3.11 dB | |
| | | | 1 - 18GHz | 3.97 dB | |
| | | | 18 - 40GHz | 4.01 dB | |
| | | Vertical Polarization | 30 - 200MHz | 3.22 dB | |
| | | | 200 - 1000MHz | 3.24 dB | |
| | | | 1 - 18GHz | 4.05 dB | |
| | | | 18 - 40GHz | 4.04 dB | |

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our U_{lab} values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR} , as follows:

- Conducted Disturbance (mains port) – 150 kHz – 30 MHz: 3.6 dB
- Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz: 5.2 dB

It can be seen that our U_{lab} values are smaller than U_{CISPR} .

If U_{lab} is less than or equal to U_{CISPR} , then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{CISPR} , then:

- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{CISPR})$, exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{CISPR})$, exceeds the disturbance limit.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| | | |
|--|-----------------------------------|-----------------------------|
| Equipment | Dongle | |
| Brand Name | LITEON | |
| Model Name | SD-8882 | |
| OEM Brand/Model Name | N/A | |
| Model Difference | N/A | |
| Product Description | The EUT is a Dongle. | |
| | Operation Frequency | 2402 MHz ~2479 MHz |
| | Modulation Type | GFSK |
| | Bit Rate of Transmitter | 1000 kbps |
| | Number Of Channel | Please refer to the Note 2. |
| | Antenna Designation | Please refer to the Note 3. |
| | Antenna Gain(Peak) | Please refer to the Note 3. |
| | Field strength | 85.90 dBuV @3m |
| Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual. | | |
| Power Source | Supplied from PC USB port. | |
| Power Rating | I/P: DC 5V | |
| Connecting I/O Port(s) | Please refer to the User's Manual | |
| Products Covered | N/A | |
| EUT Modification(s) | N/A | |

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2. Channel List:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|
| 01 | 2402 | 27 | 2428 | 53 | 2454 |
| 02 | 2403 | 28 | 2429 | 54 | 2455 |
| 03 | 2404 | 29 | 2430 | 55 | 2456 |
| 04 | 2405 | 30 | 2431 | 56 | 2457 |
| 05 | 2406 | 31 | 2432 | 57 | 2458 |
| 06 | 2407 | 32 | 2433 | 58 | 2459 |
| 07 | 2408 | 33 | 2434 | 59 | 2460 |
| 08 | 2409 | 34 | 2435 | 60 | 2461 |
| 09 | 2410 | 35 | 2436 | 61 | 2462 |
| 10 | 2411 | 36 | 2437 | 62 | 2463 |
| 11 | 2412 | 37 | 2438 | 63 | 2464 |
| 12 | 2413 | 38 | 2439 | 64 | 2465 |
| 13 | 2414 | 39 | 2440 | 65 | 2466 |
| 14 | 2415 | 40 | 2441 | 66 | 2467 |
| 15 | 2416 | 41 | 2442 | 67 | 2468 |
| 16 | 2417 | 42 | 2443 | 68 | 2469 |
| 17 | 2418 | 43 | 2444 | 69 | 2470 |
| 18 | 2419 | 44 | 2445 | 70 | 2471 |
| 19 | 2420 | 45 | 2446 | 71 | 2472 |
| 20 | 2421 | 46 | 2447 | 72 | 2473 |
| 21 | 2422 | 47 | 2448 | 73 | 2474 |
| 22 | 2423 | 48 | 2449 | 74 | 2475 |
| 23 | 2424 | 49 | 2450 | 75 | 2476 |
| 24 | 2425 | 50 | 2451 | 76 | 2477 |
| 25 | 2426 | 51 | 2452 | 77 | 2478 |
| 26 | 2427 | 52 | 2453 | 78 | 2479 |

3. Table for Filed Antenna

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|-------|------------|--------------|-----------|------------|
| 1 | N/A | N/A | Printed | N/A | -5.05 |



3.2 DESCRIPTION OF TEST MODES

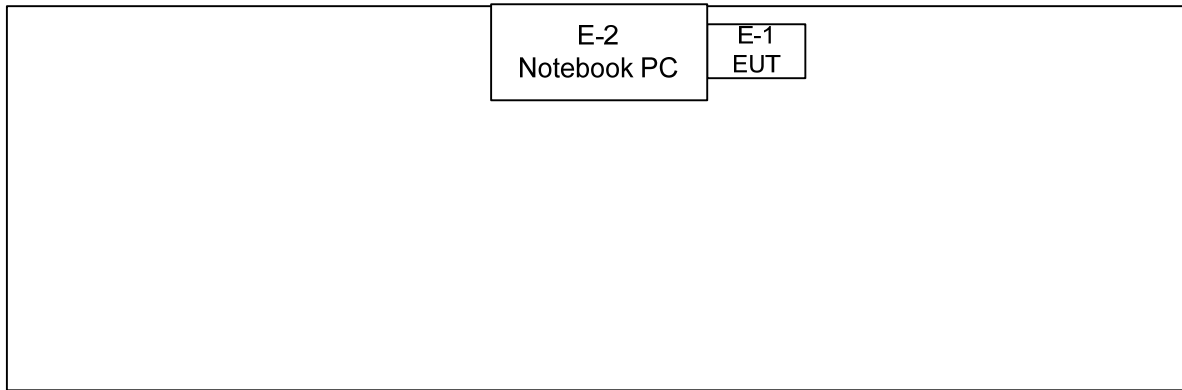
To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Test Items | Mode | Data Rate | Channel | Note |
|--|------|-----------|--------------------------------------|------|
| Conducted Emission | GFSK | 2 Mbps | 2441 MHz | |
| Radiated Spurious Emission (30 MHz to 1 GHz) | GFSK | 2 Mbps | 2441 MHz | |
| Radiated Spurious Emission (above 1 GHz) | GFSK | 2 Mbps | 2402 MHz / 2441 MHz / 2479 MHz | |
| Restricted Bands | GFSK | 2 Mbps | 2402 MHz / 2441 MHz / 2479 MHz | |

NOTE: The measurements are performed at the highest, middle, lowest available channels.



3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





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.

| Item | Equipment | Mfr/Brand | Model/Type No. | FCC ID/IC ID | Series No. | Note |
|------|-------------|-----------|----------------|--------------|------------|------|
| E-1 | Dongle | LITEON | SD-8882 | H4IDG8882 | N/A | EUT |
| E-2 | Notebook PC | DELL | D620 | DOC | 7T390 A03 | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| N/A | - | - | - | - |

NOTE: The support equipment was authorized by Declaration of Conformity (DOC).



4 CONDUCTED EMISSION

4.1 LIMIT

| FREQUENCY (MHz) | Class A (dBuV) | | Class B (dBuV) | |
|-----------------|----------------|---------|----------------|-----------|
| | Quasi-peak | Average | Quasi-peak | Average |
| 0.15 - 0.5 | 79.00 | 66.00 | 66 - 56 * | 56 - 46 * |
| 0.50 - 5.0 | 73.00 | 60.00 | 56.00 | 46.00 |
| 5.0 - 30.0 | 73.00 | 60.00 | 60.00 | 50.00 |

NOTE:

1. The tighter limit applies at the band edges.
2. The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
3. The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
 Margin Level = Measurement Value – Limit Value

4.2 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|--------------------|--------------|-----------|------------|------------------|
| 1 | TWO-LINE V-NETWORK | R&S | ENV216 | 101050 | Apr. 24, 2013 |
| 2 | LISN | EMCO | 3816/2 | 00066528 | Mar. 26, 2013 |
| 3 | Test Cable | TIMES | CFD300-NL | 130 | Jun. 14, 2013 |
| 4 | EMI Test Receiver | R&S | ESCI | 100080 | Mar. 13, 2013 |

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

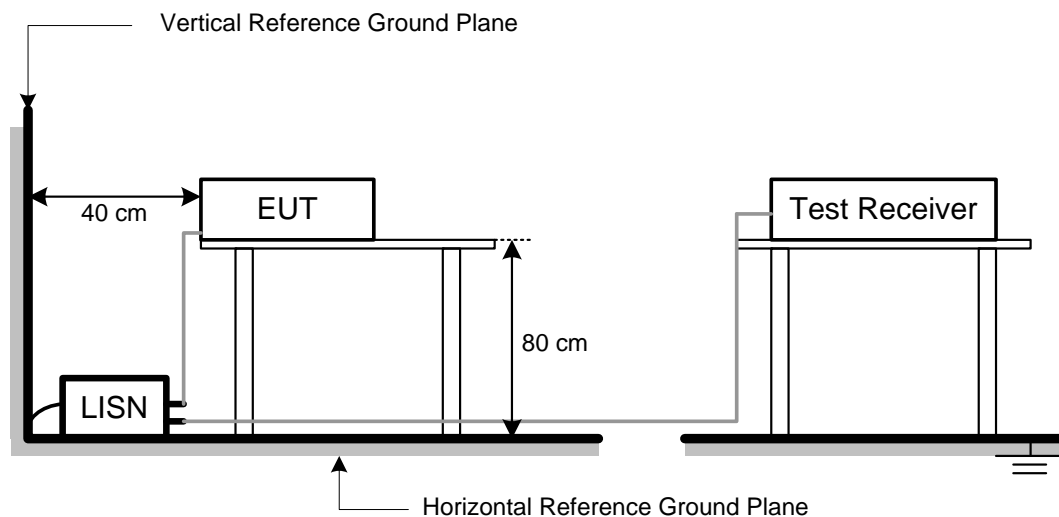
4.3 TEST PROCEDURES

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

NOTE:

- a. Reading in which marked as Peak, QP or AVG means measurements by using are Quasi-Peak or Average Mode with Detector BW=9 kHz (20 dB Bandwidth).
- b. All readings are Peak Mode value unless otherwise stated QP or AVG in column of Note. If the Peak or QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only Peak or QP Mode was measured, but AVG Mode didn't perform.

4.4 TEST SETUP LAYOUT



4.5 DEVIATION FROM TEST STANDARD

No deviation



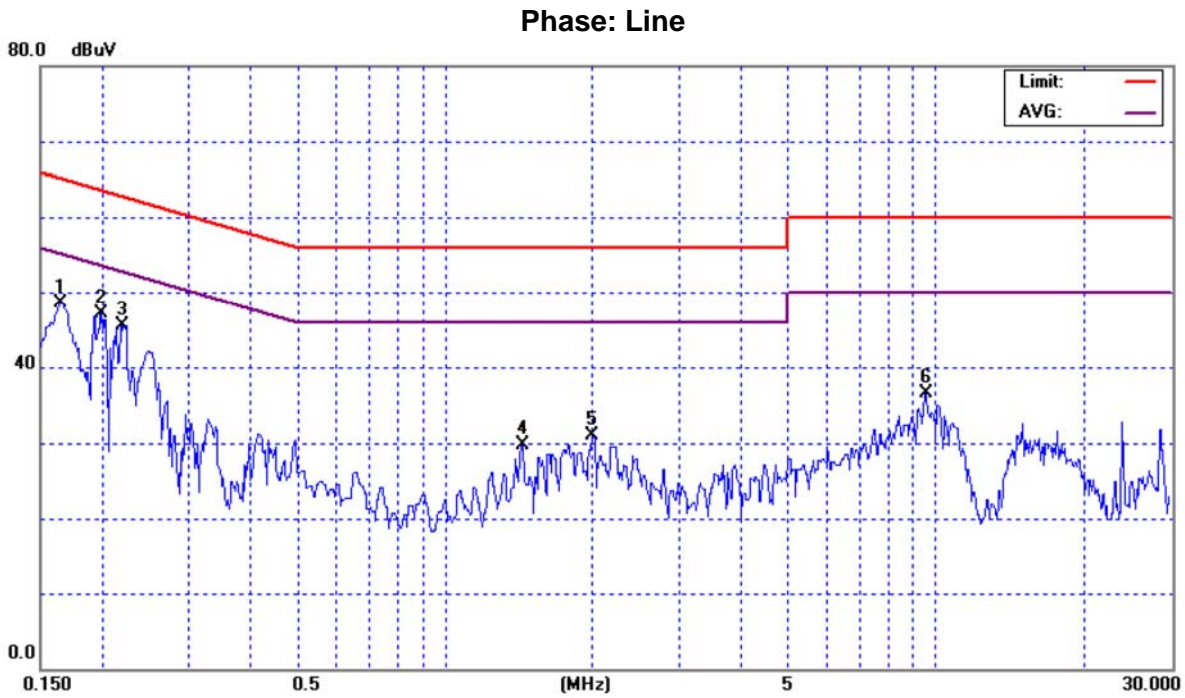
4.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



4.7 TEST RESULTS

| | | | |
|--------------|-----------------------|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 24°C | Relative Humidity | 48% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2441 MHz | | |

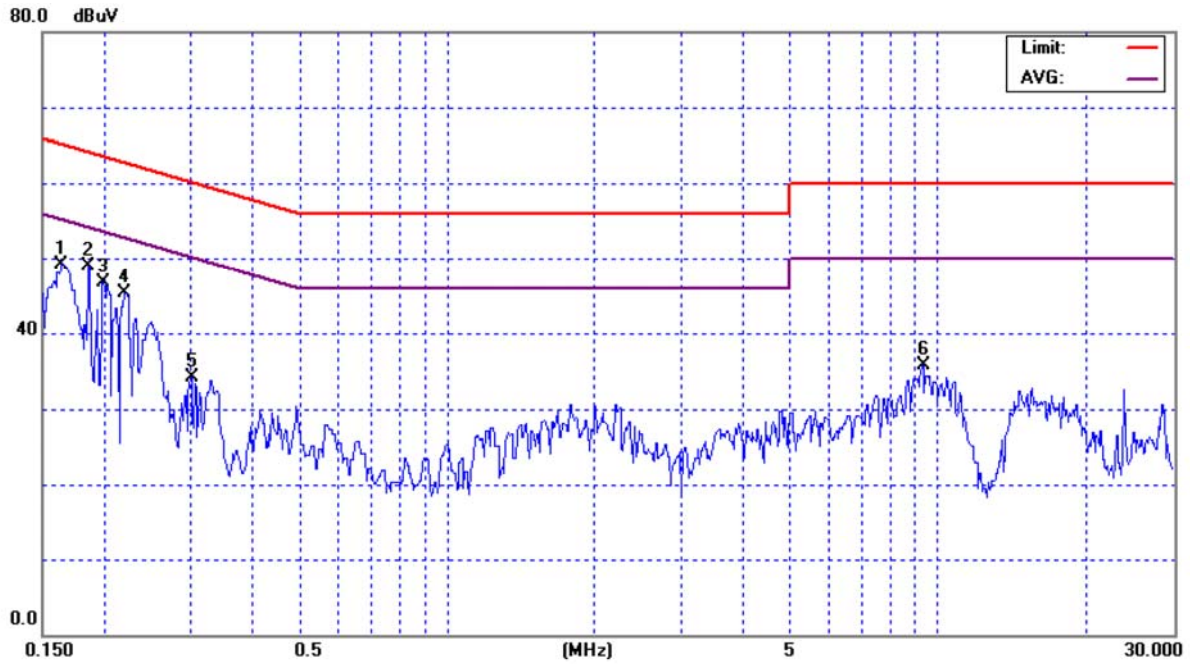


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 0.1647 | 38.87 | 9.66 | 48.53 | 65.22 | -16.69 | peak | |
| 2 | * | 0.1990 | 37.35 | 9.69 | 47.04 | 63.65 | -16.61 | peak | |
| 3 | | 0.2186 | 35.89 | 9.69 | 45.58 | 62.87 | -17.29 | peak | |
| 4 | | 1.4360 | 19.99 | 9.72 | 29.71 | 56.00 | -26.29 | peak | |
| 5 | | 1.9940 | 21.07 | 9.77 | 30.84 | 56.00 | -25.16 | peak | |
| 6 | | 9.5500 | 26.30 | 10.12 | 36.42 | 60.00 | -23.58 | peak | |



| | | | |
|--------------|-----------------------|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 24°C | Relative Humidity | 48% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2441 MHz | | |

Phase: Neutral



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 0.1640 | 39.46 | 9.68 | 49.14 | 65.26 | -16.12 | peak | |
| 2 | * | 0.1864 | 39.11 | 9.71 | 48.82 | 64.20 | -15.38 | peak | |
| 3 | | 0.1990 | 36.94 | 9.72 | 46.66 | 63.65 | -16.99 | peak | |
| 4 | | 0.2200 | 35.55 | 9.71 | 45.26 | 62.82 | -17.56 | peak | |
| 5 | | 0.3005 | 24.35 | 9.69 | 34.04 | 60.23 | -26.19 | peak | |
| 6 | | 9.3500 | 25.67 | 10.10 | 35.77 | 60.00 | -24.23 | peak | |



5 RADIATED SPURIOUS EMISSION (9 KHZ TO 1 GHZ)

5.1 LIMIT

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

| Frequency Range: 9 kHz to 1 GHz | | |
|---------------------------------|-----------------------------------|-------------------------------|
| FREQUENCY (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
| 0.009~0.490 | 2400/F(kHz) | 300 |
| 0.490~1.705 | 24000/F(kHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

| Frequency Range: above 1 GHz | | | | |
|------------------------------|--------------------------|---------|--------------------------|---------|
| FREQUENCY (MHz) | Class A (dBuV/m) (at 3m) | | Class B (dBuV/m) (at 3m) | |
| | PEAK | AVERAGE | PEAK | AVERAGE |
| above 1 GHz | 80 | 60 | 74 | 54 |

NOTE:

1. The limit for radiated test was performed according to FCC PART 15B.
2. The tighter limit applies at the band edges.
3. Emission level (dBuV/m)=20log Emission level (uV/m).
4. The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain (if use)
 Margin Level = Measurement Value – Limit Value

| FCC Part15, Subpart C (15.249) | |
|---|-----------------------|
| Limit | Frequency Range (MHz) |
| Field strength of fundamental 50000 μV/m (94 dBμV/m) @ 3 m | 2400-2483.5 |
| Field strength of harmonics 500 μV/m (54 dBμV/m) @ 3 m | Above 2483.5 |



5.2 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------------|--------------|--------------|------------|------------------|
| 1 | Spectrum Analyzer | R&S | FSP-40 | 100129 | Oct. 01, 2013 |
| 2 | Horn Antenna | Schwarzbeck | BBHA 9120 | D-325 | Apr. 16, 2013 |
| 3 | Microwave Pre_amplifier | Agilent | 8449B | 3008A01714 | Apr. 17, 2013 |
| 4 | Microflex Cable | N/A | N/A | 1m | Apr. 14, 2013 |
| 5 | Microflex Cable | AISI | S104-SMAP-1 | 10m | Apr. 14, 2013 |
| 6 | Microflex Cable | N/A | N/A | 3m | Apr. 14, 2013 |
| 7 | Test Cable | N/A | LMR-400 | 966_12m | May. 15, 2013 |
| 8 | Test Cable | N/A | LMR-400 | 966_3m | May. 15, 2013 |
| 9 | Pre-Amplifier | EMC | EMC-330 | 980001 | May. 31, 2013 |
| 10 | Log-Bicon Antenna | Schwarzbeck | VULB9168-352 | 9168-352 | Jun. 12, 2013 |

Remark: "N/A" denotes No Model Name, No Serial No. or No Calibration specified.

5.3 MEASURING INSTRUMENTS SETTING

| EMI Test Receiver | Parameter Setting |
|------------------------|----------------------------------|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |



DUTY CYCLE: TX 2479 MHz (2 Mbps)

Dwell time = ON/ON+OFF

ON: 0.300msec *5 = 1.50 msec

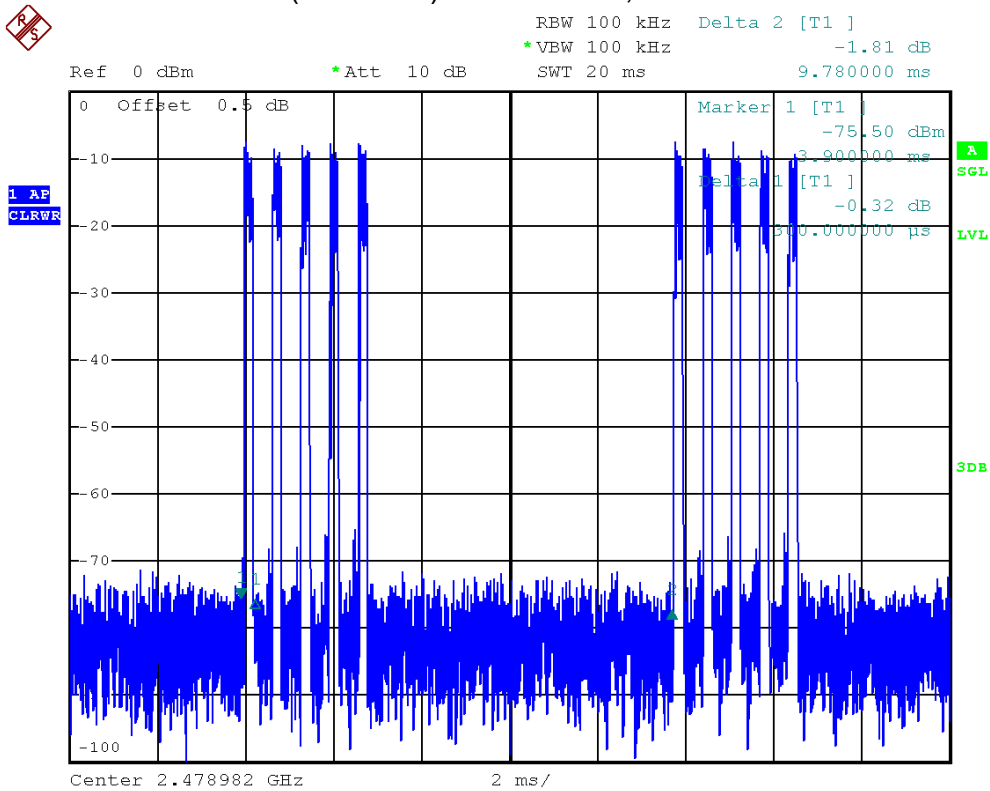
ON+OFF (total time): 9.78 msec

Dwell time: 15.33%

AV = PK + 20 log(Dwell time)

AV = PK - 16.29

Total time (ON+OFF) = 9.78 msec; ON = 1.50 msec



5.4 TEST PROCEDURES

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1 GHz. For frequencies above 1 GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m Semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- g. The testing follows the guidelines in ANSI C63.4 and FCC Public Notice DA 00-705 Measurement Guidelines. In case the emission is fail due to the used RBW/VBW is too wide, marker-delta method of FCC Public Notice DA 00-705 will be followed.

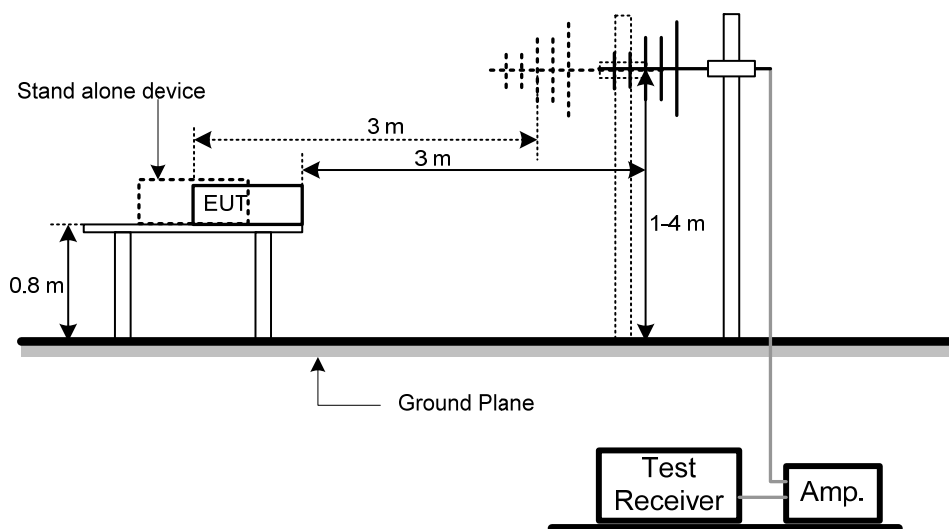
NOTE:

- a. Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode with Detector BW=120 kHz; SPA setting in RBW=100 kHz, VBW =100 kHz, Swp. Time = 0.3 sec./ MHz.
- b. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.

5.5 DEVIATION FROM TEST STANDARD

No deviation

5.6 TEST SETUP LAYOUT





5.7 EUT OPERATING CONDITIONS

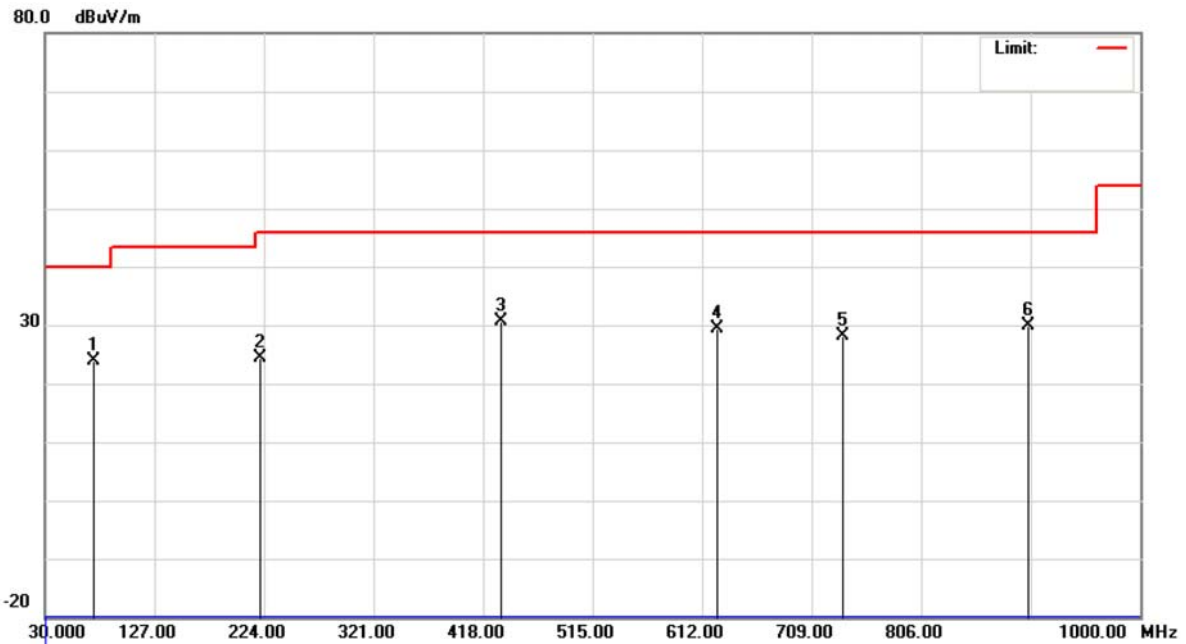
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.



5.8 TEST RESULTS

| | | | |
|--------------|-----------------------|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 26°C | Relative Humidity | 60% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2441 MHz | | |

Polarization: Vertical

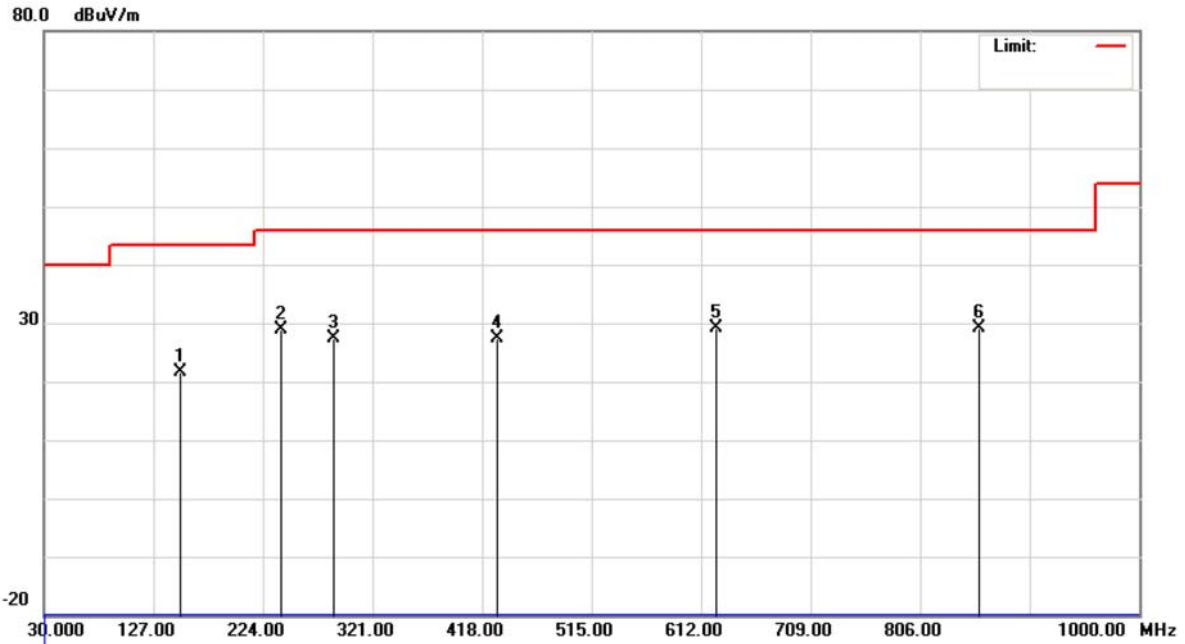


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 72.6800 | 45.32 | -21.53 | 23.79 | 40.00 | -16.21 | peak | |
| 2 | | 220.1199 | 45.82 | -21.32 | 24.50 | 46.00 | -21.50 | peak | |
| 3 | * | 433.5199 | 45.22 | -14.66 | 30.56 | 46.00 | -15.44 | peak | |
| 4 | | 625.5800 | 39.96 | -10.56 | 29.40 | 46.00 | -16.60 | peak | |
| 5 | | 736.1599 | 37.04 | -8.91 | 28.13 | 46.00 | -17.87 | peak | |
| 6 | | 901.0599 | 36.39 | -6.55 | 29.84 | 46.00 | -16.16 | peak | |



| | | | |
|--------------|-----------------------|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 26°C | Relative Humidity | 60% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2441 MHz | | |

Polarization: Horizontal



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 150.2799 | 40.37 | -18.86 | 21.51 | 43.50 | -21.99 | peak | |
| 2 | | 239.5200 | 49.39 | -20.48 | 28.91 | 46.00 | -17.09 | peak | |
| 3 | | 286.0799 | 45.80 | -18.38 | 27.42 | 46.00 | -18.58 | peak | |
| 4 | | 431.5799 | 42.21 | -14.71 | 27.50 | 46.00 | -18.50 | peak | |
| 5 | | 625.5800 | 39.59 | -10.56 | 29.03 | 46.00 | -16.97 | peak | |
| 6 | * | 858.3800 | 36.29 | -7.11 | 29.18 | 46.00 | -16.82 | peak | |



6 RADIATED SPURIOUS EMISSION (ABOVE 1 GHz)

6.1 LIMIT

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

| Frequency Range: 9 kHz to 1 GHz | | |
|---------------------------------|-----------------------------------|-------------------------------|
| FREQUENCY (MHz) | Field Strength (micровolts/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 |

| Frequency Range: above 1 GHz | | | | |
|------------------------------|--------------------------|---------|--------------------------|---------|
| FREQUENCY (MHz) | Class A (dBuV/m) (at 3m) | | Class B (dBuV/m) (at 3m) | |
| | PEAK | AVERAGE | PEAK | AVERAGE |
| above 1 GHz | 80 | 60 | 74 | 54 |

NOTE:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain(if use)
 Margin Level = Measurement Value – Limit Value



6.2 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------------|--------------|--------------|------------|------------------|
| 1 | Spectrum Analyzer | R&S | FSP-40 | 100129 | Oct. 01, 2013 |
| 2 | Horn Antenna | Schwarzbeck | BBHA 9120 | D-325 | Apr. 16, 2013 |
| 3 | Microwave Pre_amplifier | Agilent | 8449B | 3008A01714 | Apr. 17, 2013 |
| 4 | Microflex Cable | N/A | N/A | 1m | Apr. 14, 2013 |
| 5 | Microflex Cable | AISI | S104-SMAP-1 | 10m | Apr. 14, 2013 |
| 6 | Microflex Cable | N/A | N/A | 3m | Apr. 14, 2013 |
| 7 | Test Cable | N/A | LMR-400 | 966_12m | May. 15, 2013 |
| 8 | Test Cable | N/A | LMR-400 | 966_3m | May. 15, 2013 |
| 9 | Pre-Amplifier | EMC | EMC-330 | 980001 | May. 31, 2013 |
| 10 | Log-Bicon Antenna | Schwarzbeck | VULB9168-352 | 9168-352 | Jun. 12, 2013 |

Remark: "N/A" denotes No Model Name, No Serial No. or No Calibration specified.

6.3 MEASURING INSTRUMENTS SETTING

| Spectrum Analyzer | Parameter Setting |
|---------------------------------------|--|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10th carrier harmonic |
| RB / VB (emission in restricted band) | 1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average |
| RB / VB (other emission) | 1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average |

6.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m Semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- d. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- f. The testing follows the guidelines in ANSI C63.4 and FCC Public Notice DA 00-705 Measurement Guidelines. In case the emission is fail due to the used RBW/VBW is too wide, marker-delta method of FCC Public Notice DA 00-705 will be followed.

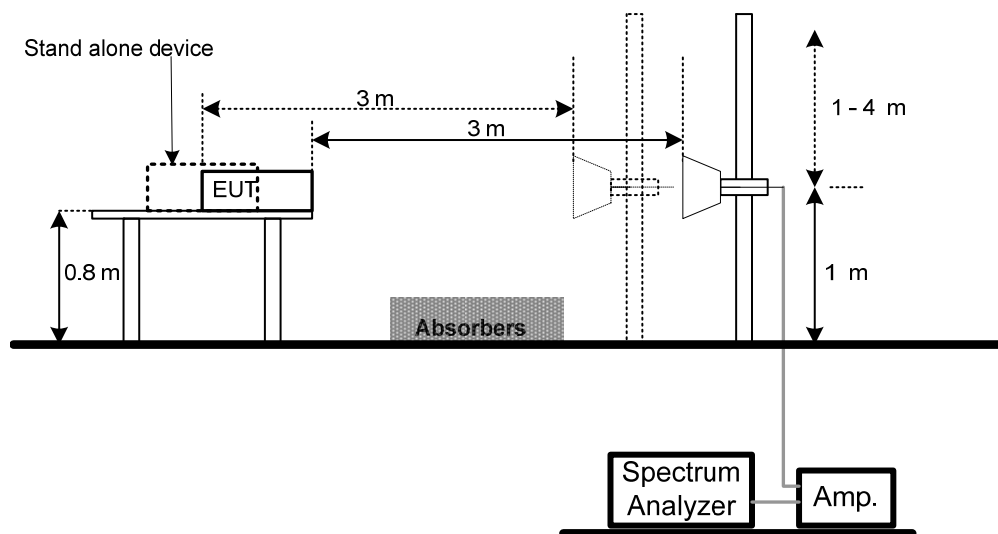
NOTE:

- a. Reading in which marked as Peak means measurements by using are Peak Mode with instrument setting in RBW= 1 MHz, VBW= 1 MHz, Swp. Time = Auto.
Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW= 1 MHz, VBW= 10 Hz, Swp. Time = Auto.
- b. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform.

6.5 DEVIATION FROM TEST STANDARD

No deviation

6.6 TEST SETUP LAYOUT





6.7 EUT OPERATING CONDITIONS

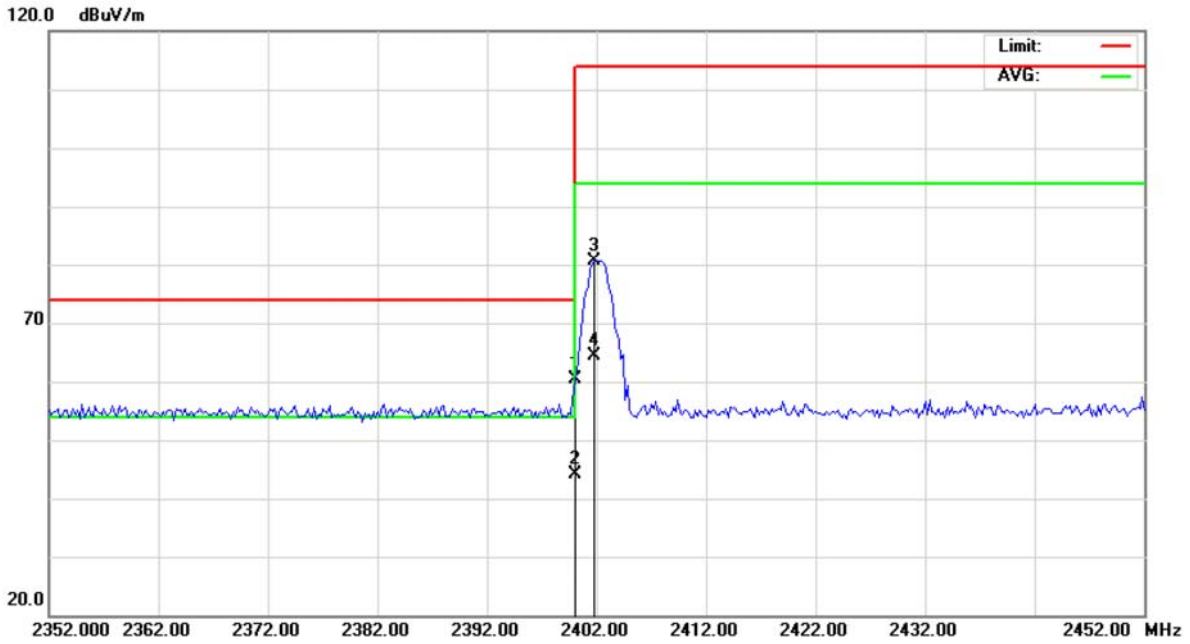
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.



6.8 TEST RESULTS

| | | | |
|--------------|-----------------------|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 26°C | Relative Humidity | 60% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2402 MHz | | |

Polarization: Vertical

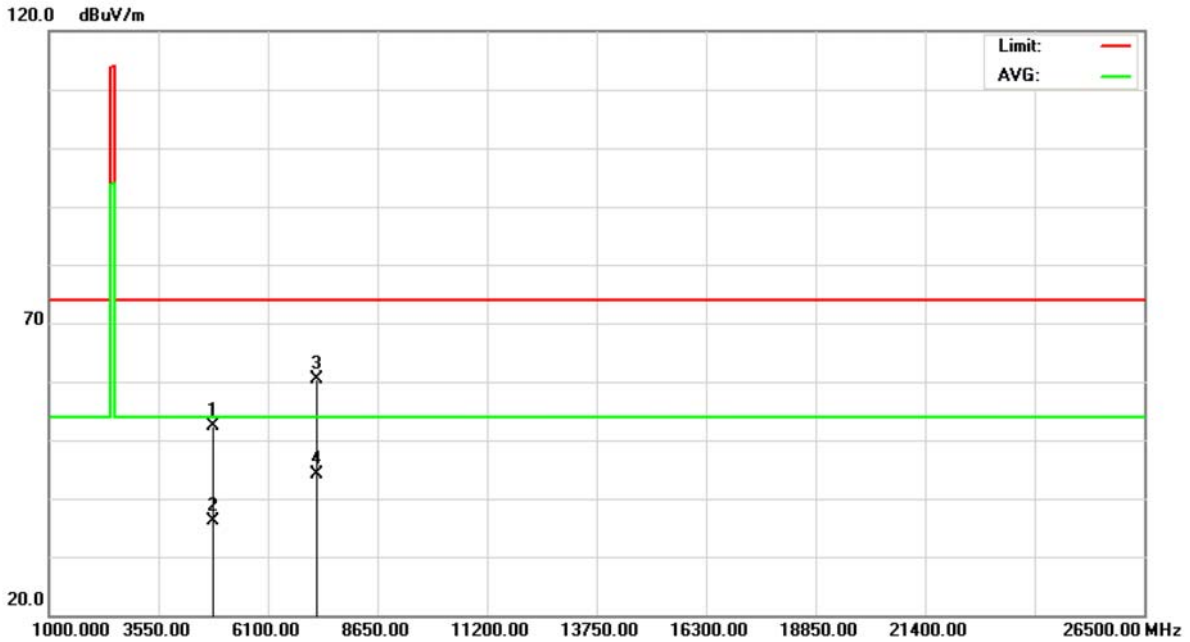


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 2400.000 | 27.27 | 33.05 | 60.32 | 74.00 | -13.68 | peak | |
| 2 | * | 2400.000 | 10.98 | 33.05 | 44.03 | 54.00 | -9.97 | AVG | |
| 3 | | 2401.800 | 47.67 | 33.06 | 80.73 | 114.0 | -33.27 | peak | |
| 4 | | 2401.800 | 31.38 | 33.06 | 64.44 | 94.00 | -29.56 | AVG | |



| | | | |
|--------------|-----------------------|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 26°C | Relative Humidity | 60% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2402 MHz | | |

Polarization: Vertical

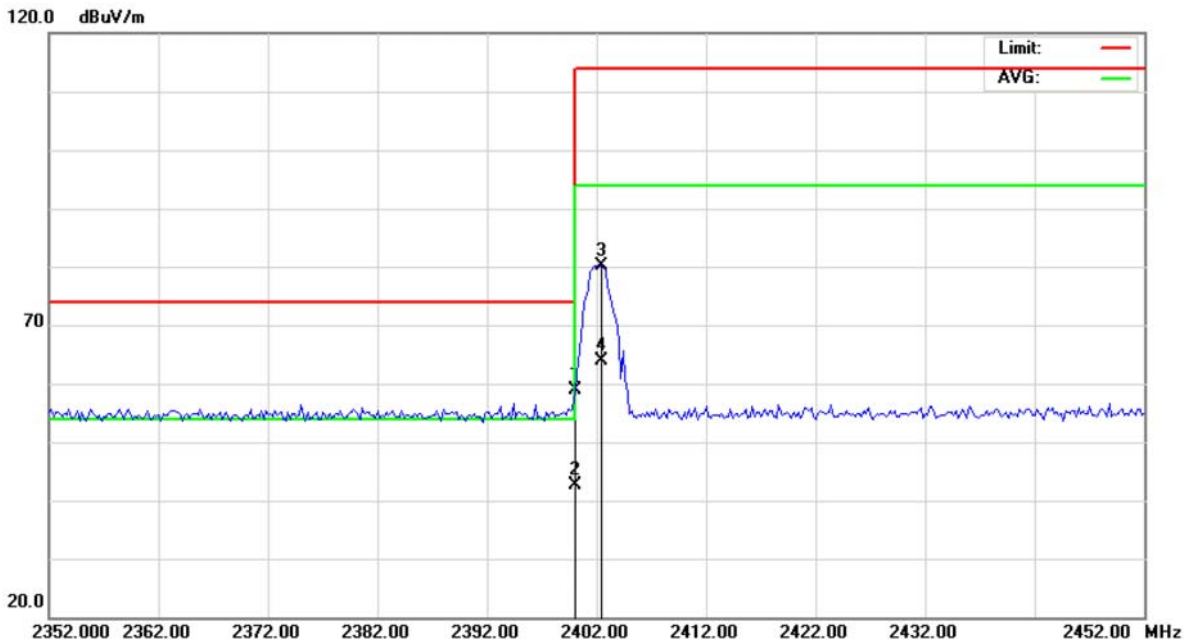


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4803.620 | 45.01 | 7.41 | 52.42 | 74.00 | -21.58 | peak | |
| 2 | | 4803.620 | 28.72 | 7.41 | 36.13 | 54.00 | -17.87 | AVG | |
| 3 | | 7208.320 | 45.51 | 14.80 | 60.31 | 74.00 | -13.69 | peak | |
| 4 | * | 7208.320 | 29.22 | 14.80 | 44.02 | 54.00 | -9.98 | AVG | |



| | | | |
|--------------|-----------------------|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 26°C | Relative Humidity | 60% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2402 MHz | | |

Polarization: Horizontal

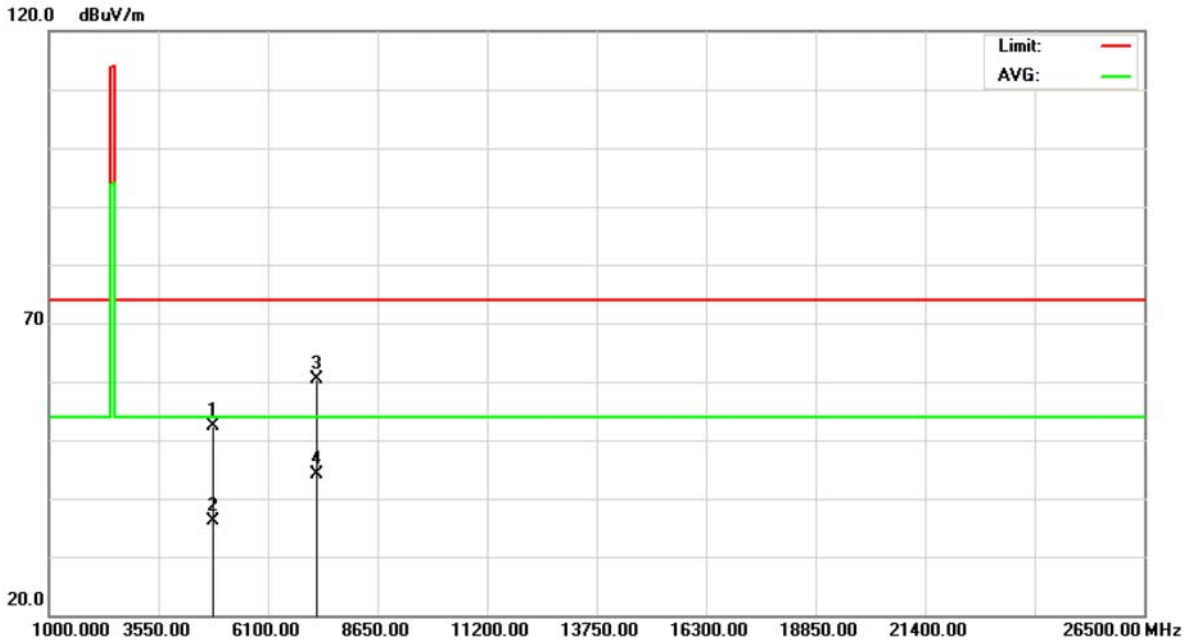


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 2400.000 | 25.85 | 33.05 | 58.90 | 74.00 | -15.10 | peak | |
| 2 | * | 2400.000 | 9.56 | 33.05 | 42.61 | 54.00 | -11.39 | AVG | |
| 3 | | 2402.400 | 47.08 | 33.06 | 80.14 | 114.0 | -33.86 | peak | |
| 4 | | 2402.400 | 30.79 | 33.06 | 63.85 | 94.0 | -30.15 | AVG | |



| | | | |
|--------------|-----------------------|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 26°C | Relative Humidity | 60% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2402 MHz | | |

Polarization: Horizontal

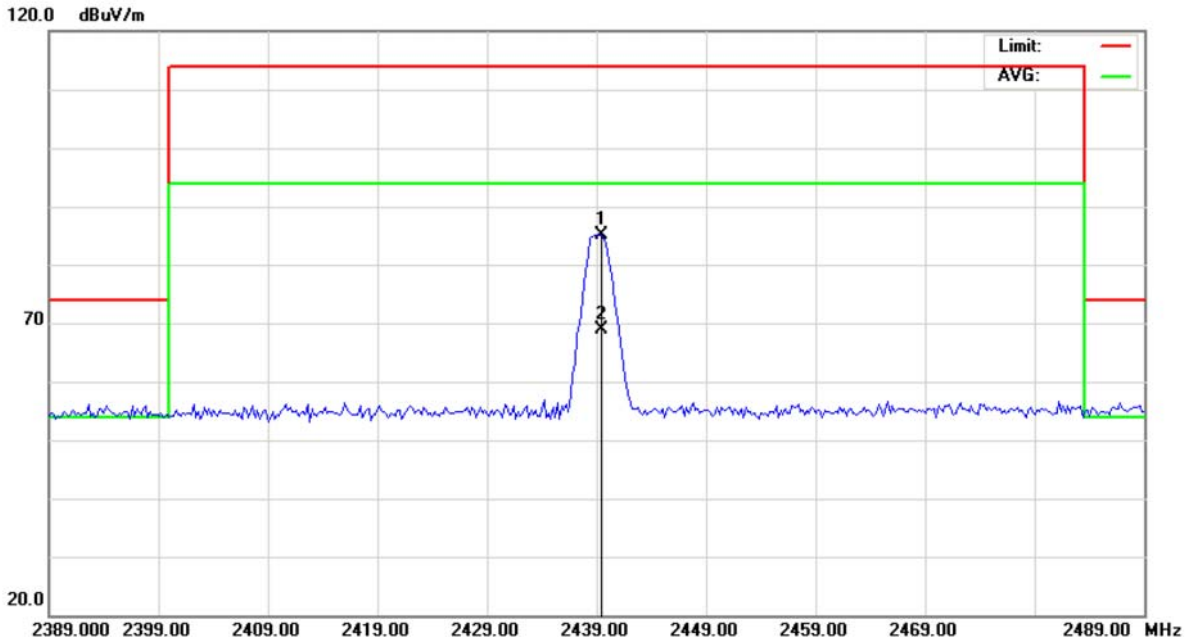


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4802.520 | 45.04 | 7.41 | 52.45 | 74.00 | -21.55 | peak | |
| 2 | | 4802.520 | 28.75 | 7.41 | 36.16 | 54.00 | -17.84 | AVG | |
| 3 | | 7204.100 | 45.61 | 14.78 | 60.39 | 74.00 | -13.61 | peak | |
| 4 | * | 7204.100 | 29.32 | 14.78 | 44.10 | 54.00 | -9.90 | AVG | |



| | | | |
|--------------|-----------------------|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 26°C | Relative Humidity | 60% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2441 MHz | | |

Polarization: Vertical

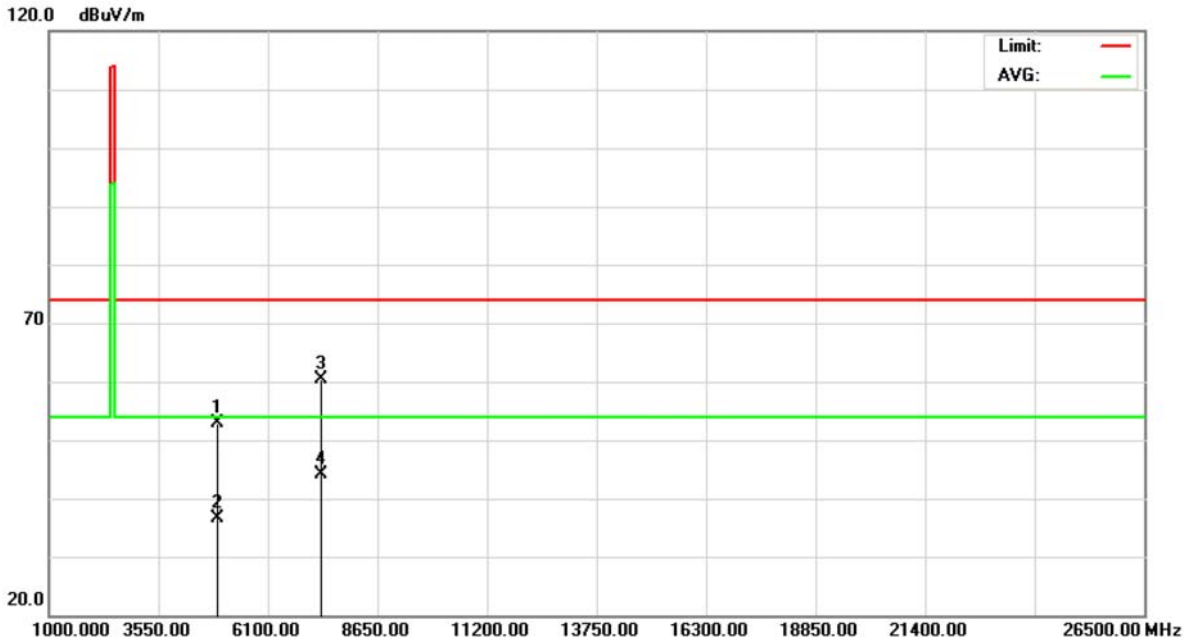


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 2439.400 | 51.90 | 33.26 | 85.16 | 114.0 | -28.84 | peak | |
| 2 | * | 2439.400 | 35.61 | 33.26 | 68.87 | 94.00 | -25.13 | AVG | |



| | | | |
|--------------|-----------------------|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 26°C | Relative Humidity | 60% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2441 MHz | | |

Polarization: Vertical

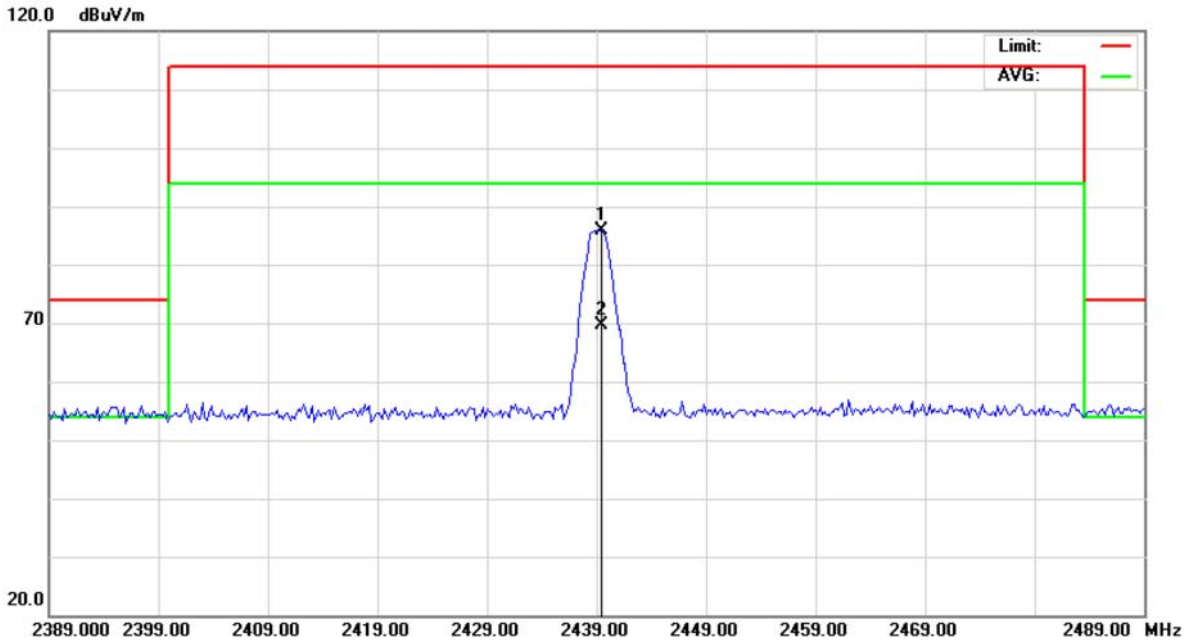


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4877.600 | 45.15 | 7.68 | 52.83 | 74.00 | -21.17 | peak | |
| 2 | | 4877.600 | 28.86 | 7.68 | 36.54 | 54.00 | -17.46 | AVG | |
| 3 | | 7320.440 | 45.39 | 15.09 | 60.48 | 74.00 | -13.52 | peak | |
| 4 | * | 7320.440 | 29.10 | 15.09 | 44.19 | 54.00 | -9.81 | AVG | |



| | | | |
|--------------|-----------------------|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 26°C | Relative Humidity | 60% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2441 MHz | | |

Polarization: Horizontal

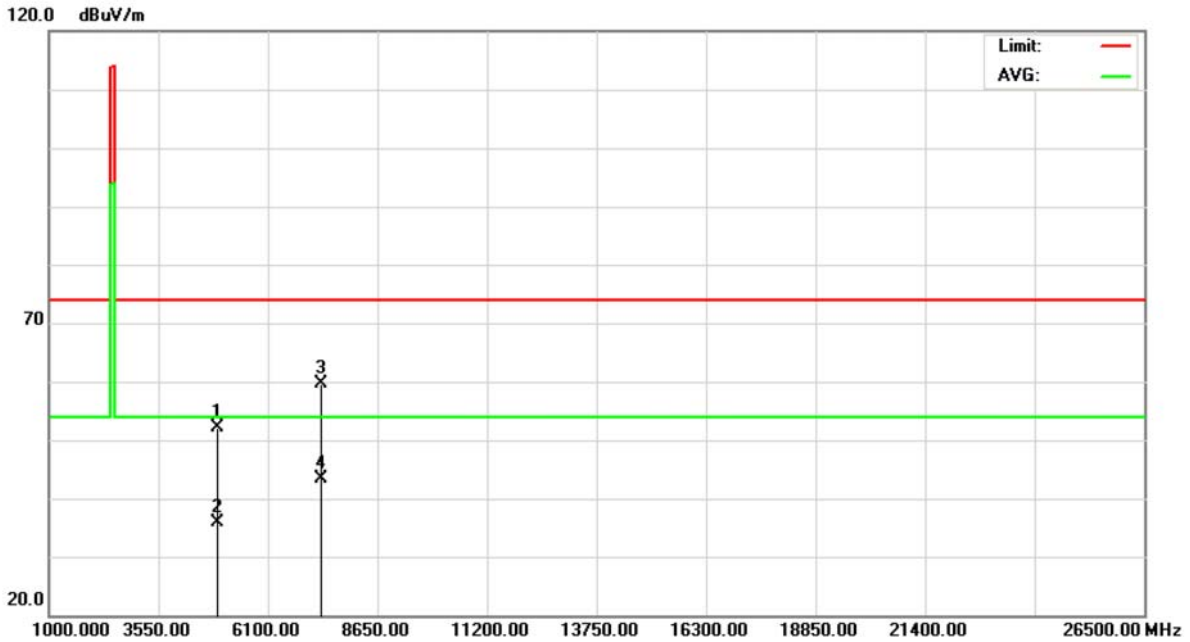


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 2439.400 | 52.64 | 33.26 | 85.90 | 114.0 | -28.10 | peak | |
| 2 | * | 2439.400 | 36.35 | 33.26 | 69.61 | 94.00 | -24.39 | AVG | |



| | | | |
|--------------|-----------------------|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 26°C | Relative Humidity | 60% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2441 MHz | | |

Polarization: Horizontal

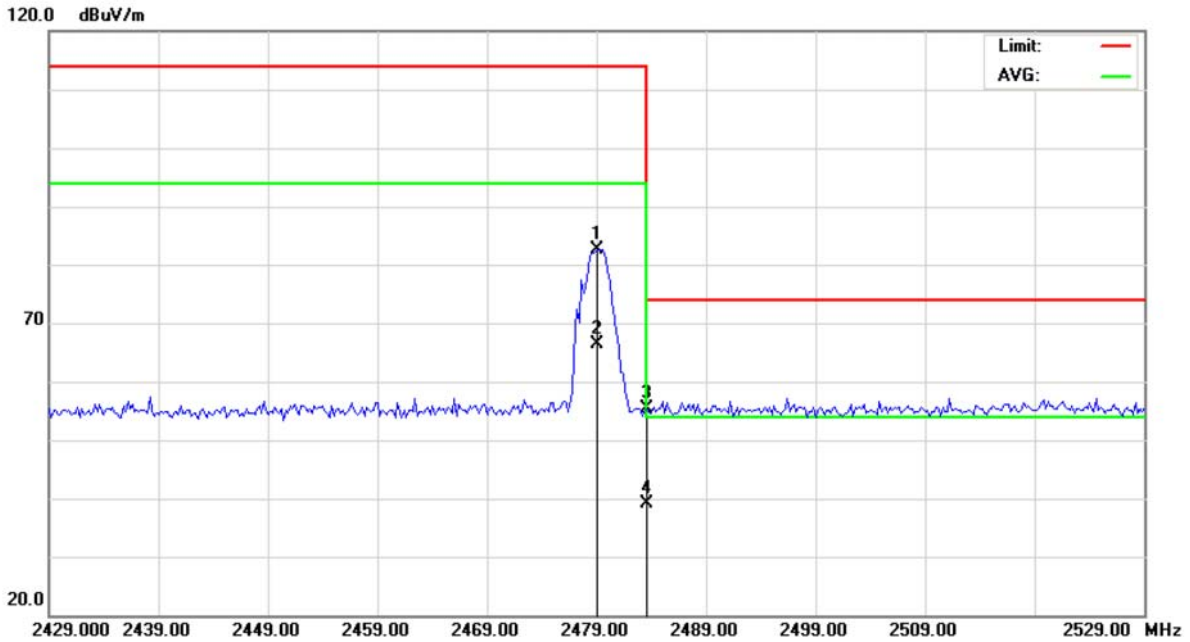


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4878.720 | 44.48 | 7.68 | 52.16 | 74.00 | -21.84 | peak | |
| 2 | | 4878.720 | 28.19 | 7.68 | 35.87 | 54.00 | -18.13 | AVG | |
| 3 | | 7316.140 | 44.58 | 15.08 | 59.66 | 74.00 | -14.34 | peak | |
| 4 | * | 7316.140 | 28.29 | 15.08 | 43.37 | 54.00 | -10.63 | AVG | |



| | | | |
|--------------|-----------------------|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 26°C | Relative Humidity | 60% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2479 MHz | | |

Polarization: Vertical

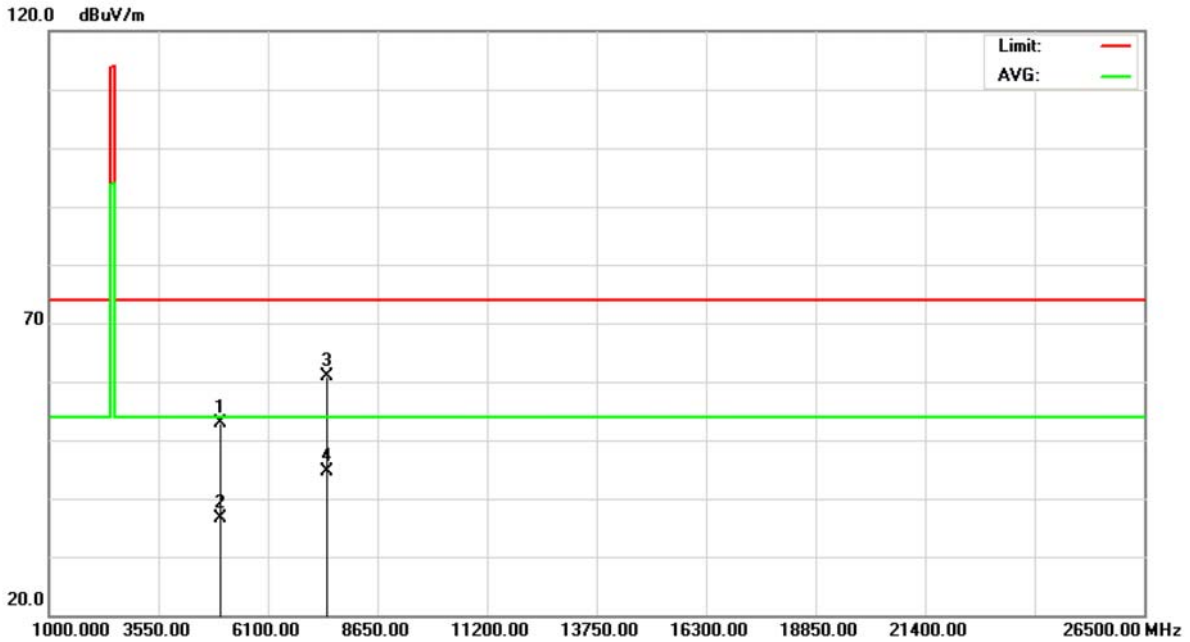


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 2479.000 | 49.19 | 33.48 | 82.67 | 114.0 | -31.33 | peak | |
| 2 | | 2479.000 | 32.90 | 33.48 | 66.38 | 94.00 | -27.62 | AVG | |
| 3 | | 2483.500 | 21.92 | 33.50 | 55.42 | 74.00 | -18.58 | peak | |
| 4 | * | 2483.500 | 5.63 | 33.50 | 39.13 | 54.00 | -14.87 | AVG | |



| | | | |
|--------------|-----------------------|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 26°C | Relative Humidity | 60% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2479 MHz | | |

Polarization: Vertical

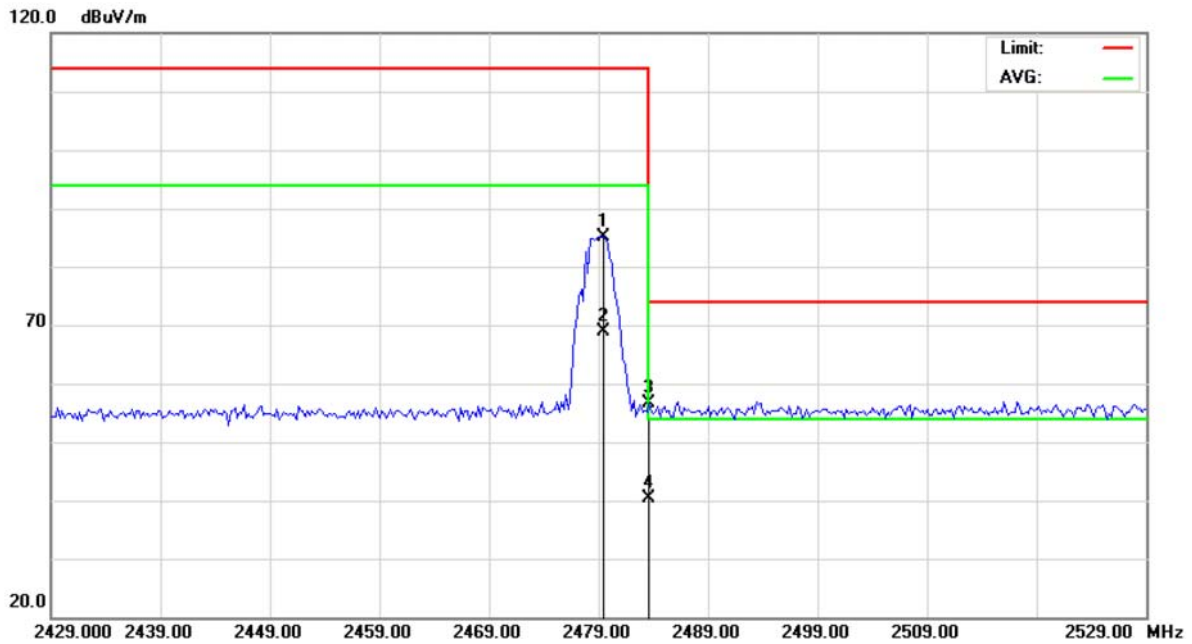


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4957.450 | 44.95 | 7.97 | 52.92 | 74.00 | -21.08 | peak | |
| 2 | | 4957.450 | 28.66 | 7.97 | 36.63 | 54.00 | -17.37 | AVG | |
| 3 | | 7436.260 | 45.51 | 15.39 | 60.90 | 74.00 | -13.10 | peak | |
| 4 | * | 7436.260 | 29.22 | 15.39 | 44.61 | 54.00 | -9.39 | AVG | |



| | | | |
|--------------|-----------------------|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 26°C | Relative Humidity | 60% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2479 MHz | | |

Polarization: Horizontal

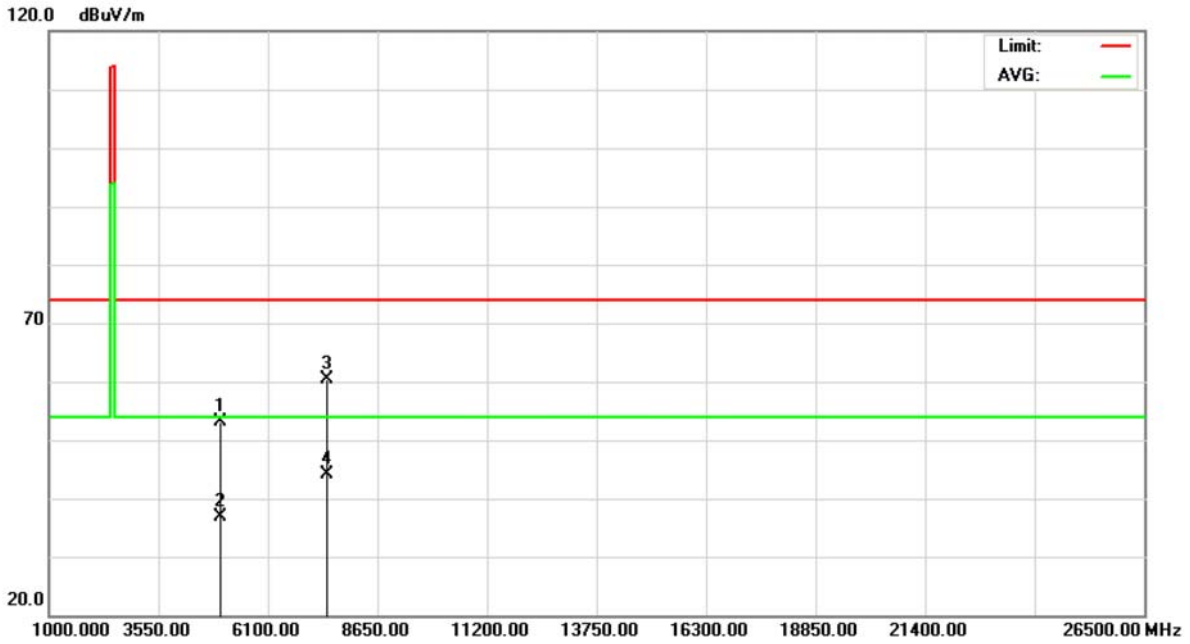


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 2479.400 | 51.64 | 33.48 | 85.12 | 114.0 | -28.88 | peak | |
| 2 | | 2479.400 | 35.35 | 33.48 | 68.83 | 94.00 | -25.17 | AVG | |
| 3 | | 2483.500 | 23.06 | 33.50 | 56.56 | 74.00 | -17.44 | peak | |
| 4 | * | 2483.500 | 6.77 | 33.50 | 40.27 | 54.00 | -13.73 | AVG | |



| | | | |
|--------------|-----------------------|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 26°C | Relative Humidity | 60% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2479 MHz | | |

Polarization: Horizontal



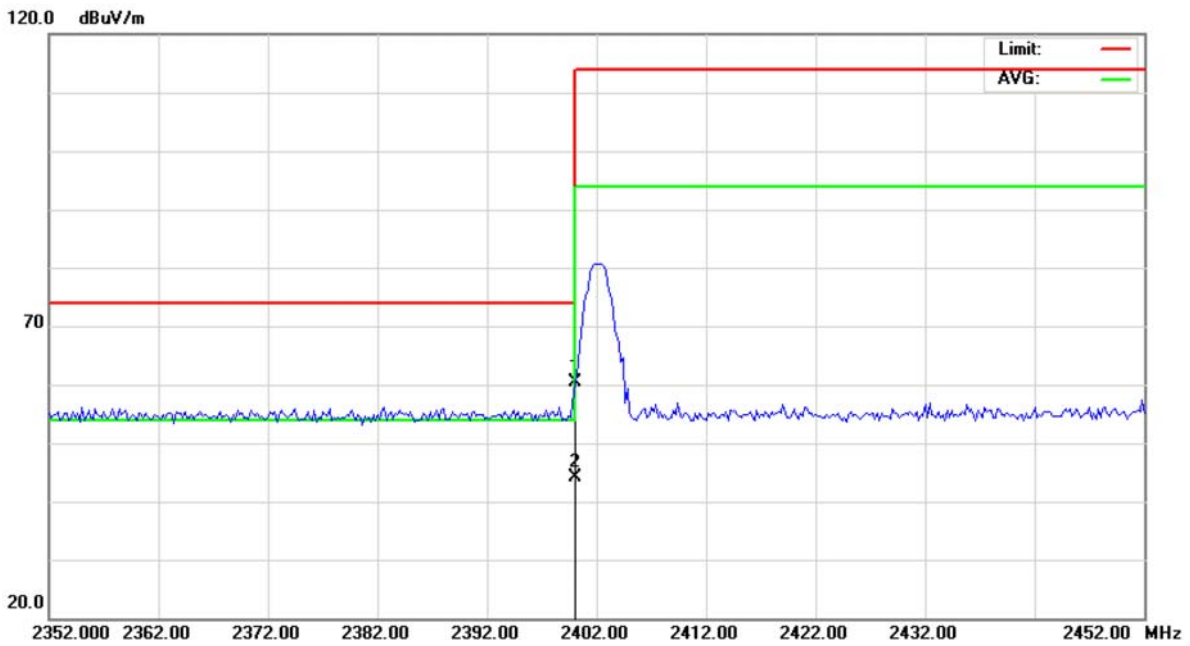
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4957.530 | 45.24 | 7.97 | 53.21 | 74.00 | -20.79 | peak | |
| 2 | | 4957.530 | 28.95 | 7.97 | 36.92 | 54.00 | -17.08 | AVG | |
| 3 | | 7436.690 | 45.08 | 15.39 | 60.47 | 74.00 | -13.53 | peak | |
| 4 | * | 7436.690 | 28.79 | 15.39 | 44.18 | 54.00 | -9.82 | AVG | |



6.9 TEST RESULTS (RESTRICTED BANDS)

| | | | |
|--------------|---|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 24°C | Relative Humidity | 46% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2402 MHz | | |
| NOTE | The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz. | | |

Polarization: Vertical

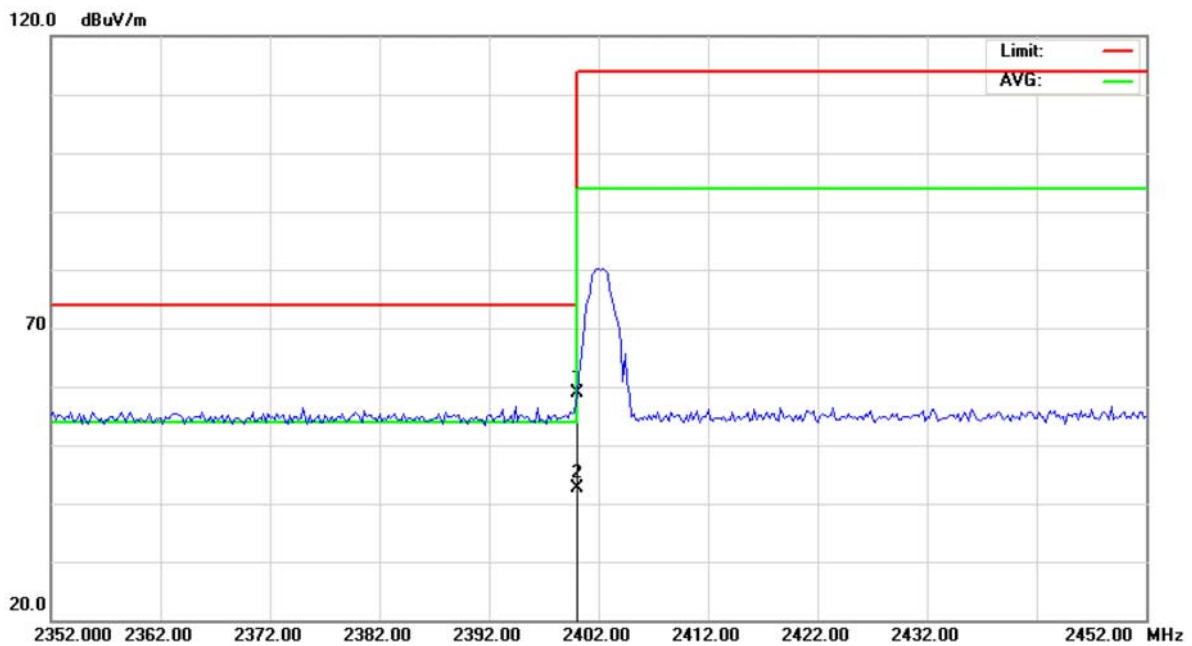


| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 2400.000 | 27.27 | 33.05 | 60.32 | 74.00 | -13.68 | peak | |
| 2 | * | 2400.000 | 10.98 | 33.05 | 44.03 | 54.00 | -9.97 | AVG | |



| | | | |
|--------------|---|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 24°C | Relative Humidity | 46% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2402 MHz | | |
| NOTE | The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz. | | |

Polarization: Horizontal

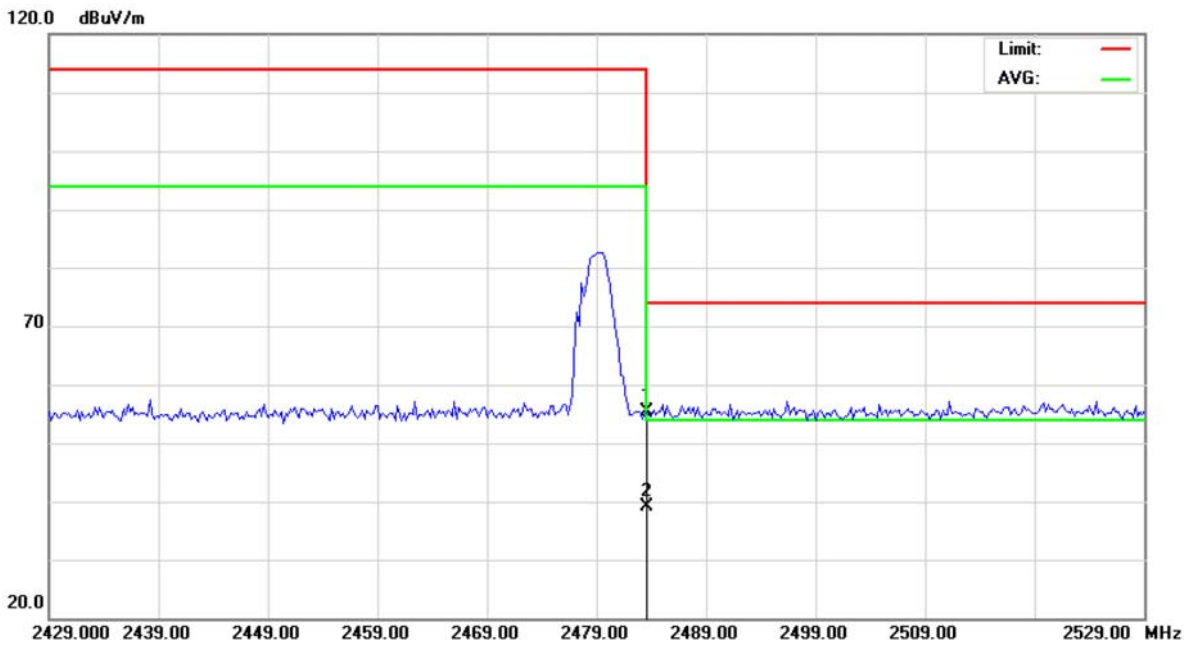


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 2400.000 | 25.85 | 33.05 | 58.90 | 74.00 | -15.10 | peak | |
| 2 | * | 2400.000 | 9.56 | 33.05 | 42.61 | 54.00 | -11.39 | AVG | |



| | | | |
|--------------|--|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 24°C | Relative Humidity | 46% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2479 MHz | | |
| NOTE | The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz. | | |

Polarization: Vertical

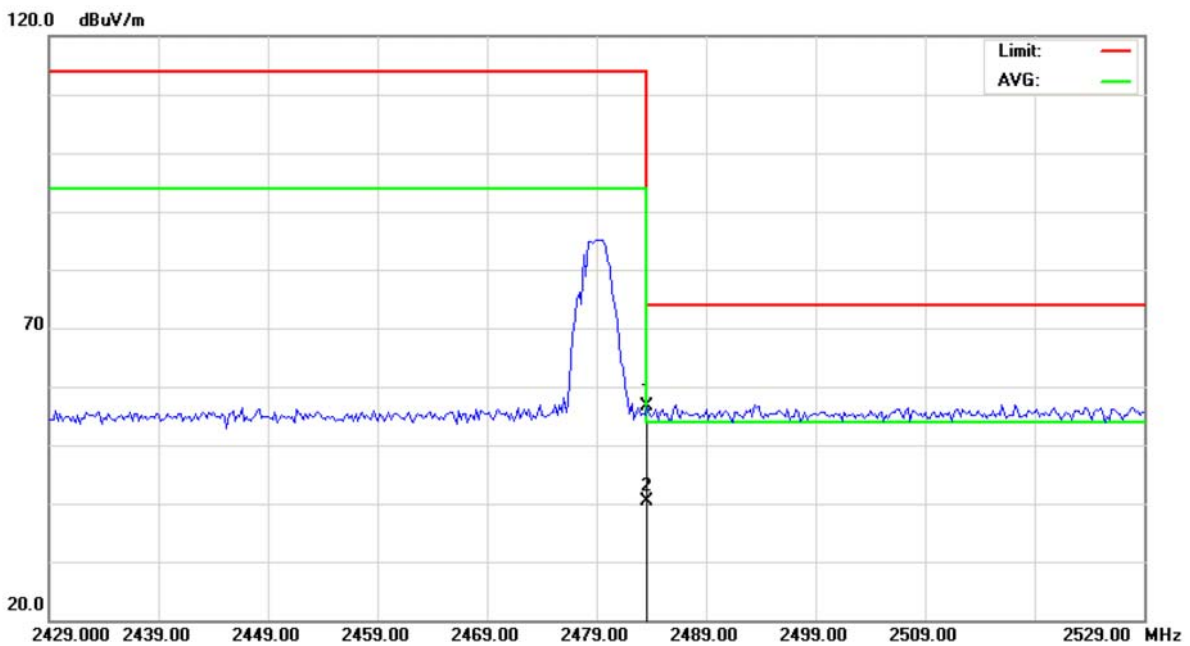


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 2483.500 | 21.92 | 33.50 | 55.42 | 74.00 | -18.58 | peak | |
| 2 | * | 2483.500 | 5.63 | 33.50 | 39.13 | 54.00 | -14.87 | AVG | |



| | | | |
|--------------|--|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 24°C | Relative Humidity | 46% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2479 MHz | | |
| NOTE | The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz. | | |

Polarization: Horizontal



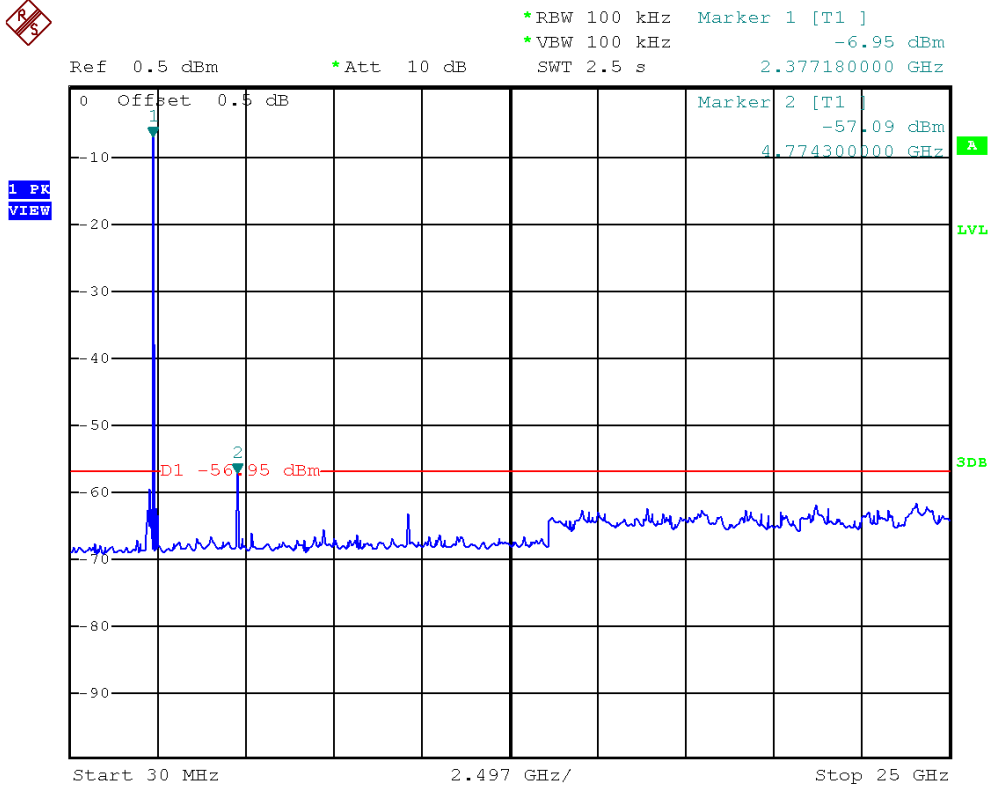
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 2483.500 | 23.06 | 33.50 | 56.56 | 74.00 | -17.44 | peak | |
| 2 | * | 2483.500 | 6.77 | 33.50 | 40.27 | 54.00 | -13.73 | AVG | |



6.10 TEST RESULTS - THE TENTH HARMONIC

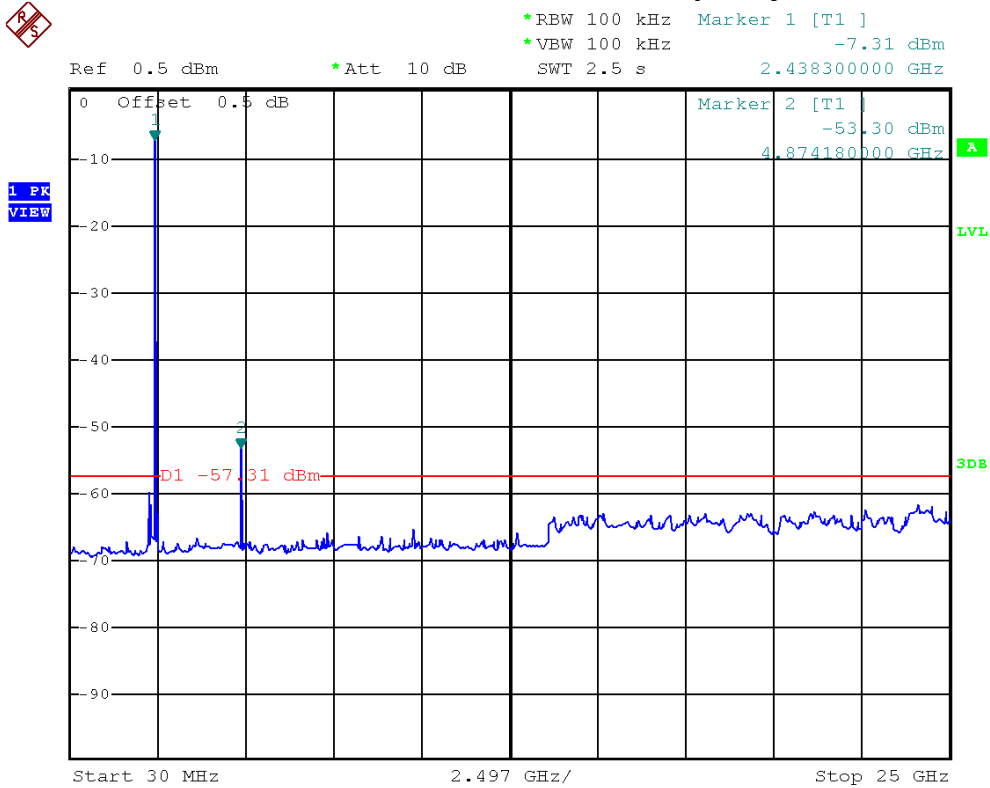
| | | | |
|--------------|----------------------------|-------------------|---------|
| E.U.T | Dongle | Model Name | SD-8882 |
| Temperature | 26°C | Relative Humidity | 46% |
| Test Voltage | AC 120V/60Hz (System) | | |
| Test Mode | 2402 MHz/2441 MHz/2479 MHz | | |

2402 MHz/10 Harmonic of the frequency





2441 MHz/10 Harmonic of the frequency



2479 MHz/10 Harmonic of the frequency

