



FCC Radio Test Report FCC ID: 2AEDNA68

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

Project No. : 1801C013B

Equipment: wireless entry-level deskset, black

Test Model : SL-640304-BK

Series Model SL-640304-BK-XX ("XX" could be letter "A~Z", what

stand for keyboard layout; or "XX" could be "V1~V10",

what stand for keyboard version)

Applicant: Winspeed Co.,Ltd.

Address: 14F-1, No.2, Jian-Ba Rd., Chung-Ho City 235, Taipei,

Taiwan

Date of Receipt: Jan. 03, 2018

Date of Test: Jan. 05, 2018 ~ Feb. 27, 2018

Issued Date : Mar. 08, 2018 Tested by : BTL Inc.

Testing Engineer :

S ...

(Welly Zhou)

Technical Manager

XIM

(Shawn Xiao)

Authorized Signatory

) -1 1

(David Mao)

BTL INC.

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000



Report No.: BTL-FCCP-1-1801C013B Page 1 of 57





Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

BTL's report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and **BTL-self**, extracts from the test report shall not be reproduced except in full with **BTL**'s authorized written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

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.

Report No.: BTL-FCCP-1-1801C013B Page 2 of 57





| Table of Contents | Page |
|---|----------|
| 1 . CERTIFICATION | 6 |
| | 7 |
| 2 . SUMMARY OF TEST RESULTS | - |
| 2.1 TEST FACILITY | 8 |
| 2.2 MEASUREMENT UNCERTAINTY | 8 |
| 3. GENERAL INFORMATION | 9 |
| 3.1 DESCRIPTION OF EUT | 9 |
| 3.2 DESCRIPTION OF TEST MODES | 11 |
| 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TEST | TED 12 |
| 3.5 DESCRIPTION OF SUPPORT UNITS | 12 |
| 4 . EMC EMISSION TEST | 13 |
| 4.1 CONDUCTED EMISSION MEASUREMENT | 13 |
| 4.1.1 POWER LINE CONDUCTED EMISSION LIMITS | 13 |
| 4.1.2 TEST PROCEDURE | 13 |
| 4.1.3 DEVIATION FROM TEST STANDARD 4.1.4 TEST SETUP | 13 14 |
| 4.1.5 EUT OPERATING CONDITIONS | 14 |
| 4.1.6 EUT TEST CONDITIONS | 14 |
| 4.1.7 TEST RESULTS | 14 |
| 4.2 RADIATED EMISSION MEASUREMENT | 15 |
| 4.2.1 RADIATED EMISSION LIMITS | 15 |
| 4.2.2 TEST PROCEDURE 4.2.3 DEVIATION FROM TEST STANDARD | 17 17 |
| 4.2.4 TEST SETUP | 18 |
| 4.2.5 EUT OPERATING CONDITIONS | 19 |
| 4.2.6 EUT TEST CONDITIONS | 19 |
| 4.2.7 TEST RESULTS (9KHZ TO 30MHZ) | 19 |
| 4.2.8 TEST RESULTS (30MHZ TO 1000MHZ) 4.2.9 TEST RESULTS (ABOVE 1000 MHZ) | 19 20 |
| · | |
| 5 . BANDWIDTH TEST 5.1 TEST PROCEDURE | 21 21 |
| 5.2 DEVIATION FROM STANDARD | 21 |
| 5.3 TEST SETUP | 21 |
| 5.4 EUT OPERATION CONDITIONS | 21 |
| 5.5 EUT TEST CONDITIONS | 21 |
| 5.6 TEST RESULTS | 21 |
| 6. MEASUREMENT INSTRUMENTS LIST | 22 |
| 7 . EUT TEST PHOTO | 23 |





| Table of Contents | Page |
|---|------|
| ATTACHMENT A - CONDUCTED EMISSION | 27 |
| ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ) | 30 |
| ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ) | 35 |
| ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ) | 42 |
| ATTACHMENT E - BANDWIDTH | 55 |

Report No.: BTL-FCCP-1-1801C013B Page 4 of 57





REPORT ISSUED HISTORY

| Issued No. | Version | Description | Issued Date |
|----------------------|---------|--------------------------|---------------|
| BTL-FCCP-1-1801C013B | Rev.01 | Original Issue. | Mar. 06, 2018 |
| BTL-FCCP-1-1801C013B | Rev.02 | Product name is changed. | Mar. 08, 2018 |

Report No.: BTL-FCCP-1-1801C013B Page 5 of 57





1. CERTIFICATION

Equipment : wireless entry-level deskset, black

Brand Name : SPEEDLINK Model Name : SL-640304-BK

Series Model SL-640304-BK-XX ("XX" could be letter "A~Z", what stand for keyboard layout;

or "XX" could be "V1~V10", what stand for keyboard version)

Applicant : Winspeed Co.,Ltd. Manufacturer : Winspeed Co.,Ltd

Address : 14F-1, No.2, Jian-Ba Rd., Chung-Ho City 235, Taipei, Taiwan

Date of Test : Jan. 05, 2018 ~ Feb. 27, 2018

Test Sample : Engineering Sample

Standard(s) : FCC Part15, Subpart C (15.249) / ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1801C013B) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO-17025 quality assessment standard and technical standard(s).

Report No.: BTL-FCCP-1-1801C013B Page 6 of 57





2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

| Applied Standard(s): FCC Part15, Subpart C (15.249) | | | | |
|---|------------------------------|----------|--------|--|
| Standard(s) Section | Test Item | Judgment | Remark | |
| 15.207(a) | Conducted Emission | PASS | | |
| 15.205 | Restricted Band of Operation | PASS | | |
| 15.209 15.249(a) | Radiated Emissions | PASS | | |
| 15.215(c) | 20dB Bandwidth Test | PASS | | |

NOTE:

(1)" N/A" denotes test is not applicable to this device.

Report No.: BTL-FCCP-1-1801C013B Page 7 of 57





2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 319330 BTL's designation number for FCC: CN5020

2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor) k=1.96 or k=2(which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)). Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y).

The BTL measurement uncertainty as below table:

A. Conducted Measurement:

| Test Site | Method | Measurement Frequency Range | U, (dB) |
|-----------|--------|-----------------------------|---------|
| DG-C02 | CISPR | 150 KHz ~ 30MHz | 1.94 |

B. Radiated Measurement:

| Test Site | Method | Measurement Frequency Range | Ant. H / V | U, (dB) | | | | | | | | |
|-----------|--------|--------------------------------|----------------|---------|-------|-------|-------|-------|-------|-------|-------------------|---|
| | | 9KHz~30MHz | V | 3.79 | | | | | | | | |
| | | 9KHz~30MHz | Η | 3.57 | | | | | | | | |
| | | 30MHz ~ 200MHz | V | 3.82 | | | | | | | | |
| | CISPR | 2001/ | 30MHz ~ 200MHz | Ι | 3.78 | | | | | | | |
| DG-CB03 | | | CICDD | CICDD | CICDD | CICDD | CICDD | CICDD | CIEDD | CICDD | 200MHz ~ 1,000MHz | V |
| DG-CB03 | | 200MHz ~ 1,000MHz | Ι | 4.06 | | | | | | | | |
| | | 1GHz~18GHz | V | 3.12 | | | | | | | | |
| | | 1GHz~18GHz | Ι | 3.68 | | | | | | | | |
| | | 18GHz~40GHz | V | 4.15 | | | | | | | | |
| | | 18GHz~40GHz | Н | 4.14 | | | | | | | | |

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.





3. GENERAL INFORMATION

3.1 DESCRIPTION OF EUT

| Equipment | wireless entry-level deskset, black | | | |
|---------------------|-------------------------------------|---|--|--|
| Brand Name | SPEEDLINK | | | |
| Model Name | SL-640304-BK | | | |
| Series Model | | SL-640304-BK-XX ("XX" could be letter "A~Z", what stand for keyboard ayout; or "XX" could be "V1~V10", what stand for keyboard version) | | |
| Model Difference | The product is the same, t | he model name is different. | | |
| | Operation Frequency | 2408-2474 MHz | | |
| | Modulation Technology | FSK | | |
| Product Description | Bit Rate of Transmitter | 1 Mbps | | |
| | Field Strength | 81.72 dBuV/m (Peak Max) 77.65 dBuV/m (AVG Max) | | |
| Power Source | Supplied from MosArt receiver. | | | |
| EUT Power Rating | 3 DC 5V, 40mA | | | |

Note:

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

Report No.: BTL-FCCP-1-1801C013B Page 9 of 57





2. Channel List:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|--------------------|---------|--------------------|---------|-----------------|
| 01 | 2408 | 13 | 2432 | 25 | 2456 |
| 02 | 2410 | 14 | 2434 | 26 | 2458 |
| 03 | 2412 | 15 | 2436 | 27 | 2460 |
| 04 | 2414 | 16 | 2438 | 28 | 2462 |
| 05 | 2416 | 17 | 2440 | 29 | 2464 |
| 06 | 2418 | 18 | 2442 | 30 | 2466 |
| 07 | 2420 | 19 | 2444 | 31 | 2468 |
| 08 | 2422 | 20 | 2446 | 32 | 2470 |
| 09 | 2424 | 21 | 2448 | 33 | 2472 |
| 10 | 2426 | 22 | 2450 | 34 | 2474 |
| 11 | 2428 | 23 | 2452 | | |
| 12 | 2430 | 24 | 2454 | | |

3. Table for Filed Antenna

| Ant. | Brand | P/N | Antenna Type | Connector | Gain (dBi) |
|------|-------|-----|--------------|-----------|------------|
| 1 | N/A | N/A | Printed | N/A | 0 |

Report No.: BTL-FCCP-1-1801C013B Page 10 of 57





3.2 DESCRIPTION OF TEST MODES

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

| Pretest Mode | Description |
|--------------|-------------|
| Mode 1 | TX Mode |

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

| pre-scarring test as following. | | |
|---------------------------------|-------------|--|
| For Conducted Test | | |
| Final Test Mode | Description | |
| Mode 1 | TX Mode | |

| For Radiated Test | | |
|-------------------|-------------------------|--|
| Final Test Mode | Description | |
| Mode 1 | TX Mode NOTE (1) | |

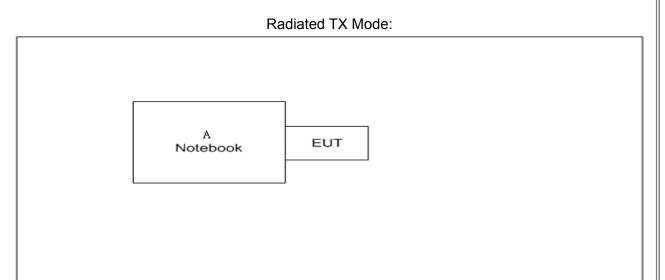
Note:

(1) The measurements are performed at the high, middle, low available channels.





3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 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 | Series No. |
|------|-----------|-----------|----------------|--------|------------|
| Α | Notebook | Lenovo | DCSM | DOC | EB22953770 |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| - | ı | ı | - | - |

Note:

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





4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

| Frequency of Emission (MHz) | Conducted Limit (dBµV) | | |
|-----------------------------|------------------------|-----------|--|
| | Quasi-peak | Average | |
| 0.15 -0. | 66 to 56* | 56 to 46* | |
| 0.50 -5.0 | 56 | 46 | |
| 5.0 -30.0 | 60 | 50 | |

Note:

- (1) The limit of " * " decreases with the logarithm of the frequency
- (2) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Insertion Loss + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

| Receiver Parameters | Setting |
|---------------------|----------|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 kHz |

4.1.2 TEST PROCEDURE

- 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.

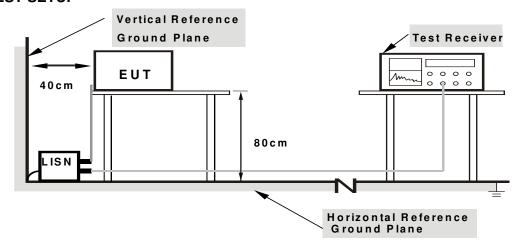
4.1.3 DEVIATION FROM TEST STANDARD

No deviation





4.1.4 TEST SETUP



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

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical function (as a customer would normally use it), EUT was programmed to be in continuously transmitting/receiving data or hopping on mode.

4.1.6 EUT TEST CONDITIONS

Temperature: 23°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of <code>『Note』</code>. If the 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 QP Mode was measured, but AVG Mode didn't perform.In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.
- (3) " N/A" denotes test is not applicable to this device.





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (FCC 15.209)

| Frequencies (MHz) | Field Strength (micorvolts/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 |
| 960~1000 | 500 | 3 |

Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section15.209(a) limit in the table below has to be followed.

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.209)

| FREQUENCY (MHz) | (dBuV/m) (at 3m) | | |
|-----------------|------------------|---------|--|
| FREQUENCY (MHZ) | PEAK | AVERAGE | |
| Above 1000 | 74 | 54 | |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC Part 15.249)

| FCC Part15 (15.249), Subpart C | | | |
|--|--------------|--|--|
| 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 | | |

Report No.: BTL-FCCP-1-1801C013B Page 15 of 57





| Spectrum Parameter | Setting |
|--------------------|-----------------------|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10th carrier harmonic |

| Receiver Parameter | Setting |
|------------------------|-----------------------------------|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9KHz~90KHz for PK/AVG detector |
| Start ~ Stop Frequency | 90KHz~110KHz for QP detector |
| Start ~ Stop Frequency | 110KHz~490KHz for PK/AVG detector |
| Start ~ Stop Frequency | 490KHz~30MHz for QP detector |
| Start ~ Stop Frequency | 30MHz~1000MHz for QP detector |

Report No.: BTL-FCCP-1-1801C013B Page 16 of 57





4.2.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5m, 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. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. 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. (below 1GHz)
- h. 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. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

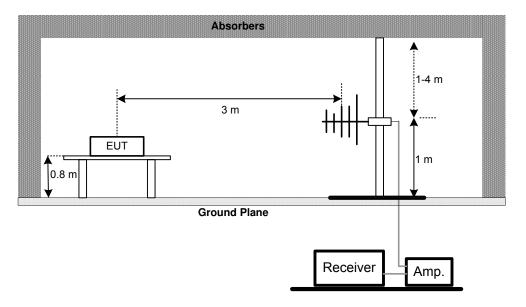
No deviation



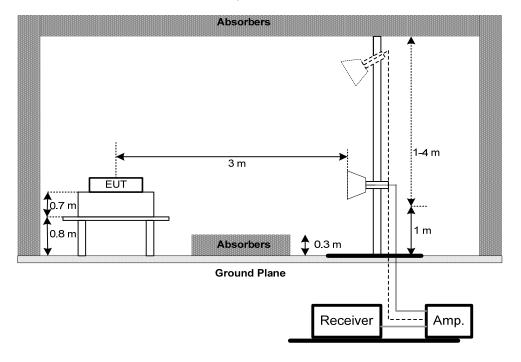


4.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz

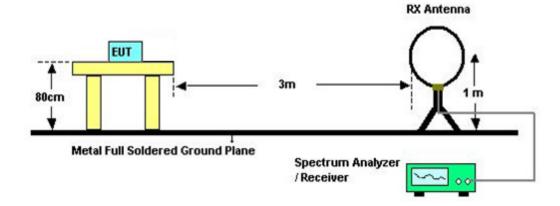


Report No.: BTL-FCCP-1-1801C013B Page 18 of 57





(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.5** unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 60% Test Voltage: DC 5V

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the Attachment C.

Remark:

- (1) Measuring frequency range from 30MHz to 1000MHz.
- (2) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.





4.2.9TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (2) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (3) EUT Orthogonal Axis: "X" denotes Laid on Table, "Y" denotes Vertical Stand, "Z" denotes Side Stand
- (4) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (5) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

Report No.: BTL-FCCP-1-1801C013B Page 20 of 57





5. BANDWIDTH TEST

5.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

5.2 DEVIATION FROM STANDARD

No deviation.

5.3 TEST SETUP



5.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 60% Test Voltage: DC 5V

5.6 TEST RESULTS

Please refer to the Attachment E.

Report No.: BTL-FCCP-1-1801C013B Page 21 of 57





6. MEASUREMENT INSTRUMENTS LIST

| | Conducted Emission Measurement | | | | | | |
|------|--------------------------------|--------------|---------------------------|------------|------------------|--|--|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until | | |
| 1 | EMI Test Receiver | R&S | ESCI | 100382 | Mar. 26, 2018 | | |
| 2 | LISN | EMCO | 3816/2 | 52765 | Mar. 26, 2018 | | |
| 3 | 50Ω Terminator | SHX | TF2-3G-A | 8122901 | Mar. 26, 2018 | | |
| 4 | TWO-LINE V-NETWORK | R&S | ENV216 | 101447 | Mar. 26, 2018 | | |
| 5 | Cable | emci | RG223(9KHz-30 MHz)(5m) | N/A | Mar. 09, 2018 | | |
| 6 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-01 | N/A | N/A | | |

| | Radiated Emission Measurement | | | | | |
|------|---|-------------------|--|------------------|------------------|--|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until | |
| 1 | Antenna | Schwarbeck | VULB9160 | 9160-3232 | Mar. 26, 2018 | |
| 2 | Amplifier | HP | 8447D | 2944A09673 | Oct. 19, 2018 | |
| 3 | Receiver | AGILENT | N9038A | MY52130039 | Sep. 03, 2018 | |
| 4 | Test Cable | emci | LMR-400(30MH z-1GHz) | C-01 | Jun. 26, 2018 | |
| 5 | Controller | CT | SC100 | N/A | N/A | |
| 6 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-01 | N/A | N/A | |
| 7 | Antenna | ETS | 3115 | 00075789 | Mar. 26, 2018 | |
| 8 | Amplifier | Agilent | 8449B | 3008A02274 | Nov. 01, 2018 | |
| 9 | Test Cable | emci | EMC104-SM-S M-10000(1GHz- 26.5GHz) | C-68 | Jun. 25, 2018 | |
| 10 | Broad-Band Horn Antenna | Schwarzbeck | BBHA 9170 | 9170319 | Mar. 26, 2018 | |
| 11 | Microwave Preamplifier With Adaptor | EMC INSTRUMENT | EMC2654045 | 980039 & HA01 | Mar. 26, 2018 | |
| 12 | EMI Test Receiver | R&S | ESCI | 100895 | Mar. 26, 2018 | |
| 13 | Active Loop Antenna | R&S | HFH2-Z2 | 830749/020 | Sep. 06, 2018 | |

| | Bandwidth Measurement | | | | | |
|------|-----------------------|--------------|----------|------------|------------------|--|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until | |
| 1 | Spectrum Analyzer | R&S | FSP40 | 100185 | Sep. 03, 2018 | |

Remark: "N/A" denotes no model name, serial no. or calibration specified. All calibration period of equipment list is one year.

Report No.: BTL-FCCP-1-1801C013B Page 22 of 57





7. EUT TEST PHOTO







Report No.: BTL-FCCP-1-1801C013B Page 23 of 57

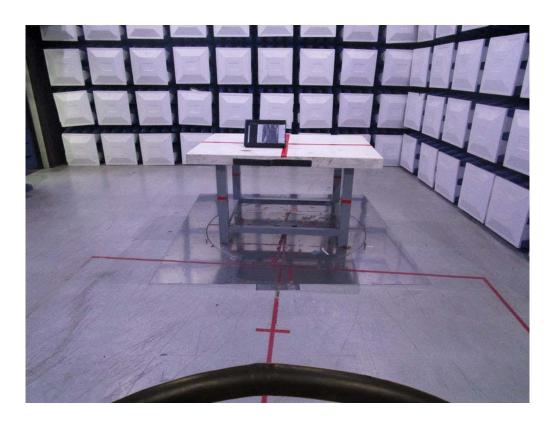




Radiated Measurement Photos

9KHz to 30MHz





Report No.: BTL-FCCP-1-1801C013B Page 24 of 57

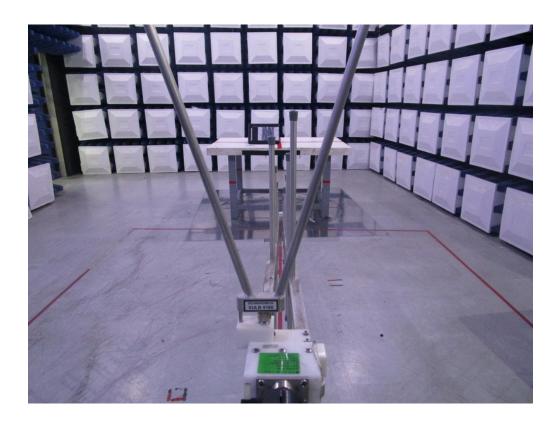




Radiated Measurement Photos

30MHz to 1000MHz





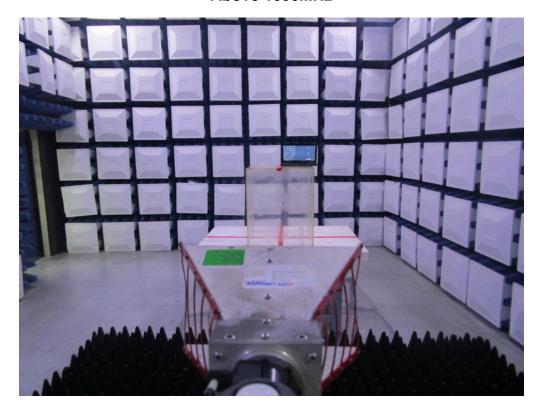
Report No.: BTL-FCCP-1-1801C013B Page 25 of 57





Radiated Measurement Photos

Above 1000MHz





Report No.: BTL-FCCP-1-1801C013B Page 26 of 57





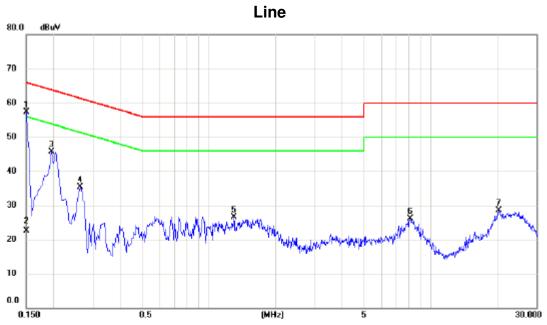
| ATTACHMENT A - CONDUCTED EMISSION | |
|-----------------------------------|--|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Report No.: BTL-FCCP-1-1801C013B Page 27 of 57





Test Mode: TX MODE



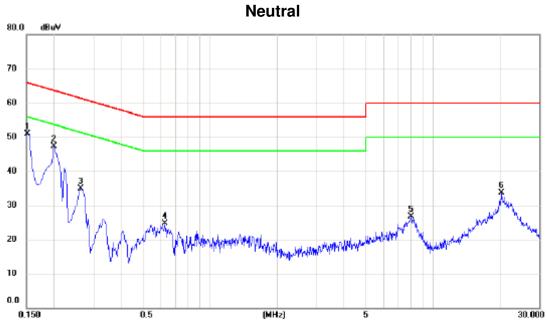
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | * | 0.1500 | 47.56 | 9.72 | 57.28 | 66.00 | -8.72 | peak | |
| 2 | | 0.1500 | 12.80 | 9.72 | 22.52 | 56.00 | -33.48 | AVG | |
| 3 | | 0.1950 | 36.05 | 9.69 | 45.74 | 63.82 | -18.08 | peak | |
| 4 | | 0.2625 | 25.64 | 9.69 | 35.33 | 61.35 | -26.02 | peak | |
| 5 | | 1.3020 | 16.76 | 9.72 | 26.48 | 56.00 | -29.52 | peak | |
| 6 | | 8.0700 | 16.21 | 9.80 | 26.01 | 60.00 | -33.99 | peak | |
| 7 | | 20.2785 | 18.53 | 9.95 | 28.48 | 60.00 | -31.52 | peak | |

Report No.: BTL-FCCP-1-1801C013B Page 28 of 57





Test Mode: TX MODE



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | * | 0.1516 | 41.28 | 9.61 | 50.89 | 65.91 | -15.02 | peak | |
| 2 | | 0.1995 | 37.59 | 9.62 | 47.21 | 63.63 | -16.42 | peak | |
| 3 | | 0.2625 | 25.24 | 9.60 | 34.84 | 61.35 | -26.51 | peak | |
| 4 | | 0.6270 | 15.19 | 9.61 | 24.80 | 56.00 | -31.20 | peak | |
| 5 | | 7.9575 | 17.02 | 9.73 | 26.75 | 60.00 | -33.25 | peak | |
| 6 | | 20.2290 | 23.65 | 10.06 | 33.71 | 60.00 | -26.29 | peak | |

Report No.: BTL-FCCP-1-1801C013B Page 29 of 57



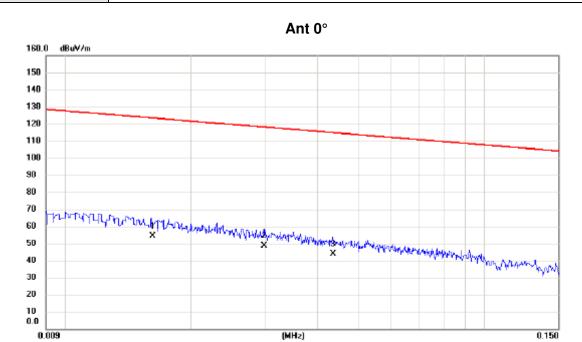


| ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ) |
|--|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

Report No.: BTL-FCCP-1-1801C013B Page 30 of 57





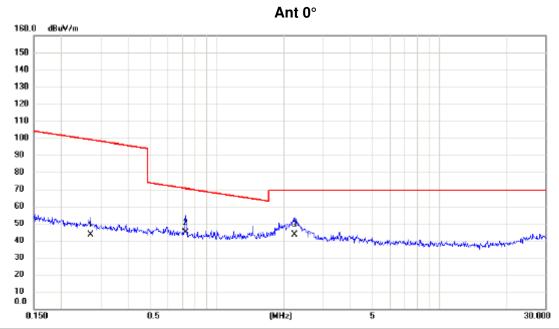


| No. Mk. | Freq. | | | Measure- ment | | Margin | | |
|---------|--------|-------|-------|------------------|--------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 0.0162 | 34.02 | 20.11 | 54.13 | 123.41 | -69.28 | AVG | |
| 2 | 0.0298 | 29.08 | 19.33 | 48.41 | 118.12 | -69.71 | AVG | |
| 3 | 0.0435 | 25.06 | 18.91 | 43.97 | 114.84 | -70.87 | AVG | |

Report No.: BTL-FCCP-1-1801C013B Page 31 of 57





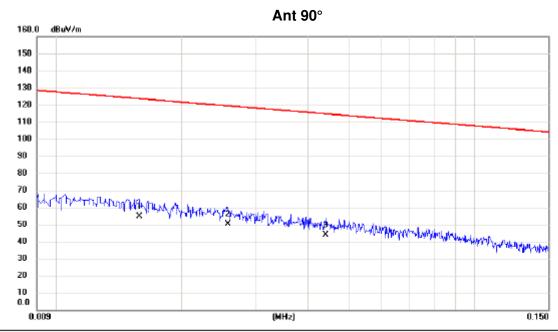


| No. Mk. | Freq. | Reading Level | | Measure- ment | Limit | Margin | | |
|---------|--------|------------------|-------|------------------|--------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 0.2701 | 26.58 | 16.64 | 43.22 | 98.97 | -55.75 | AVG | |
| 2 * | 0.7236 | 28.45 | 16.21 | 44.66 | 70.41 | -25.75 | QP | |
| 3 | 2.2367 | 27.87 | 15.44 | 43.31 | 69.54 | -26.23 | QP | |

Report No.: BTL-FCCP-1-1801C013B Page 32 of 57





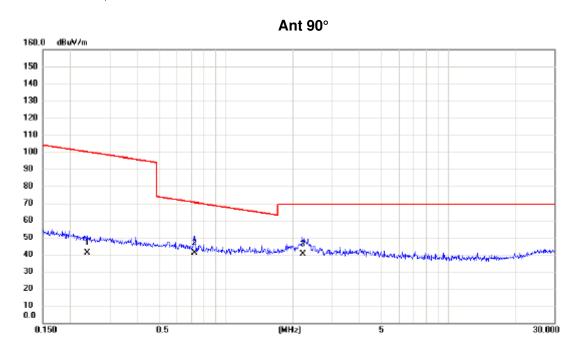


| No. | Mk. | Freq. | Reading Level | | Measure- ment | Limit | Margin | | |
|-----|-----|--------|------------------|-------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 0.0158 | 34.39 | 20.17 | 54.56 | 123.63 | -69.07 | AVG | |
| 2 | | 0.0258 | 30.83 | 19.45 | 50.28 | 119.37 | -69.09 | AVG | |
| 3 | | 0.0440 | 24.75 | 18.90 | 43.65 | 114.74 | -71.09 | AVG | |

Report No.: BTL-FCCP-1-1801C013B Page 33 of 57







| No. M | Λk. | Freq. | Reading Level | | Measure- ment | Limit | Margin | | |
|-------|-----|--------|------------------|-------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 0.2391 | 24.35 | 16.69 | 41.04 | 100.03 | -58.99 | AVG | |
| 2 | | 0.7236 | 24.65 | 16.21 | 40.86 | 70.41 | -29.55 | QP | |
| 3 * | | 2.2132 | 24.60 | 15.45 | 40.05 | 69.54 | -29.49 | QP | |

Report No.: BTL-FCCP-1-1801C013B Page 34 of 57





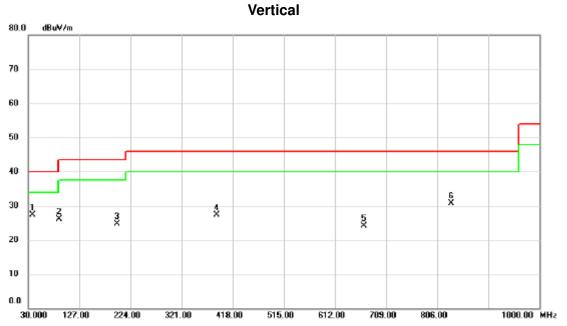
| ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ) |
|---|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

Report No.: BTL-FCCP-1-1801C013B Page 35 of 57





Test Mode: TX 2408MHz



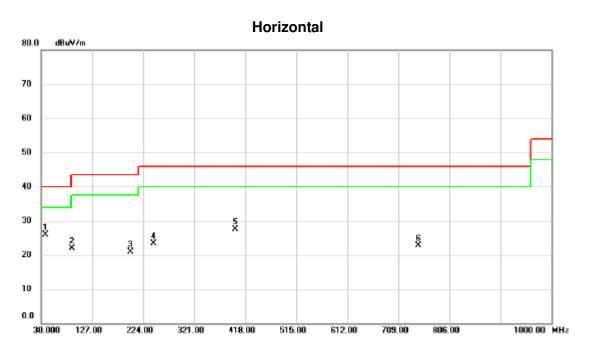
| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | | |
|---------|---------|------------------|-------------------|------------------|--------|--------|----------|---------|--|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment | |
| 1 * | 38.730 | 49.60 | -22.27 | 27.33 | 40.00 | -12.67 | peak | | |
| 2 | 88.200 | 50.72 | -24.69 | 26.03 | 43.50 | -17.47 | peak | | |
| 3 | 198.780 | 43.06 | -18.43 | 24.63 | 43.50 | -18.87 | peak | | |
| 4 | 386.960 | 45.32 | -18.03 | 27.29 | 46.00 | -18.71 | peak | | |
| 5 | 666.320 | 33.22 | -9.08 | 24.14 | 46.00 | -21.86 | peak | | |
| 6 | 832.190 | 33.92 | -3.17 | 30.75 | 46.00 | -15.25 | peak | | |

Report No.: BTL-FCCP-1-1801C013B Page 36 of 57





Test Mode: TX 2408MHz



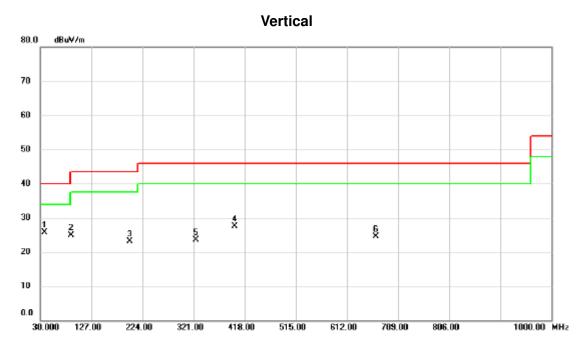
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|---------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 38.730 | 48.51 | -22.67 | 25.84 | 40.00 | -14.16 | peak | |
| 2 | | 89.170 | 47.38 | -25.40 | 21.98 | 43.50 | -21.52 | peak | |
| 3 | | 199.750 | 40.44 | -19.50 | 20.94 | 43.50 | -22.56 | peak | |
| 4 | | 244.370 | 43.45 | -20.12 | 23.33 | 46.00 | -22.67 | peak | |
| 5 | | 398.600 | 41.56 | -13.96 | 27.60 | 46.00 | -18.40 | peak | |
| 6 | | 746.830 | 28.41 | -5.66 | 22.75 | 46.00 | -23.25 | peak | |

Report No.: BTL-FCCP-1-1801C013B Page 37 of 57





Test Mode: TX 2440MHz



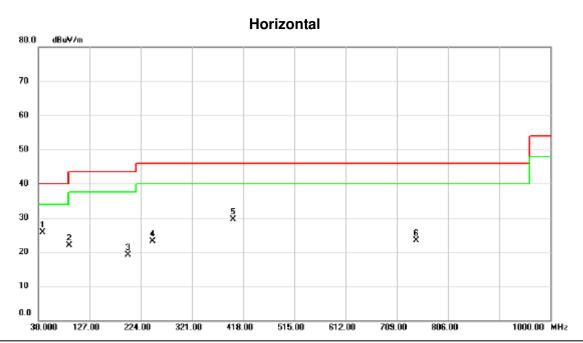
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|---------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 38.730 | 48.00 | -22.27 | 25.73 | 40.00 | -14.27 | peak | |
| 2 | | 89.170 | 49.64 | -24.75 | 24.89 | 43.50 | -18.61 | peak | |
| 3 | | 199.750 | 41.61 | -18.53 | 23.08 | 43.50 | -20.42 | peak | |
| 4 | | 398.600 | 44.81 | -17.27 | 27.54 | 46.00 | -18.46 | peak | |
| 5 | | 325.850 | 42.13 | -18.59 | 23.54 | 46.00 | -22.46 | peak | |
| 6 | | 666.320 | 33.67 | -9.08 | 24.59 | 46.00 | -21.41 | peak | |

Report No.: BTL-FCCP-1-1801C013B Page 38 of 57





Test Mode: TX 2440MHz



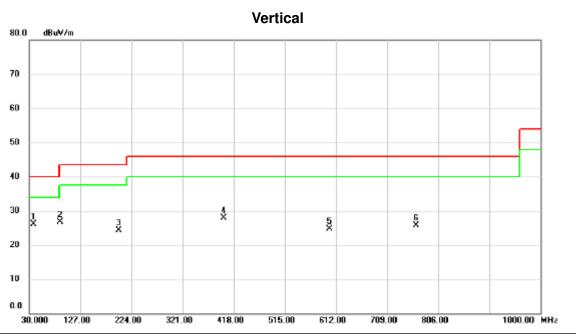
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|---------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 38.730 | 48.41 | -22.67 | 25.74 | 40.00 | -14.26 | peak | |
| 2 | | 88.200 | 47.35 | -25.45 | 21.90 | 43.50 | -21.60 | peak | |
| 3 | | 199.750 | 38.55 | -19.50 | 19.05 | 43.50 | -24.45 | peak | |
| 4 | | 246.310 | 43.18 | -20.04 | 23.14 | 46.00 | -22.86 | peak | |
| 5 | | 398.600 | 43.48 | -13.96 | 29.52 | 46.00 | -16.48 | peak | |
| 6 | | 745.860 | 28.88 | -5.64 | 23.24 | 46.00 | -22.76 | peak | |
| | | | | | | | | | |

Report No.: BTL-FCCP-1-1801C013B Page 39 of 57





Test Mode: TX 2474MHz



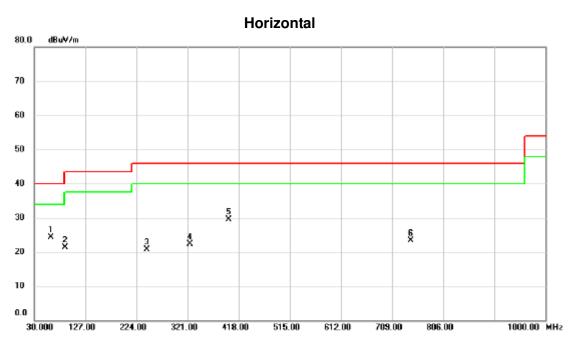
| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|---------|---------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 37.760 | 48.38 | -22.34 | 26.04 | 40.00 | -13.96 | peak | |
| 2 | 89.170 | 51.42 | -24.75 | 26.67 | 43.50 | -16.83 | peak | |
| 3 | 199.750 | 42.92 | -18.53 | 24.39 | 43.50 | -19.11 | peak | |
| 4 | 399.570 | 45.04 | -17.21 | 27.83 | 46.00 | -18.17 | peak | |
| 5 | 599.390 | 33.47 | -8.79 | 24.68 | 46.00 | -21.32 | peak | |
| 6 | 763.320 | 29.09 | -3.41 | 25.68 | 46.00 | -20.32 | peak | |

Report No.: BTL-FCCP-1-1801C013B Page 40 of 57





Test Mode: TX 2474MHz



| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|---------|---------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 62.010 | 47.55 | -23.22 | 24.33 | 40.00 | -15.67 | peak | |
| 2 | 88.200 | 46.77 | -25.45 | 21.32 | 43.50 | -22.18 | peak | |
| 3 | 243.400 | 40.94 | -20.15 | 20.79 | 46.00 | -25.21 | peak | |
| 4 | 324.880 | 40.42 | -18.03 | 22.39 | 46.00 | -23.61 | peak | |
| 5 | 398.600 | 43.40 | -13.96 | 29.44 | 46.00 | -16.56 | peak | |
| 6 | 743.920 | 28.88 | -5.60 | 23.28 | 46.00 | -22.72 | peak | |

Report No.: BTL-FCCP-1-1801C013B Page 41 of 57





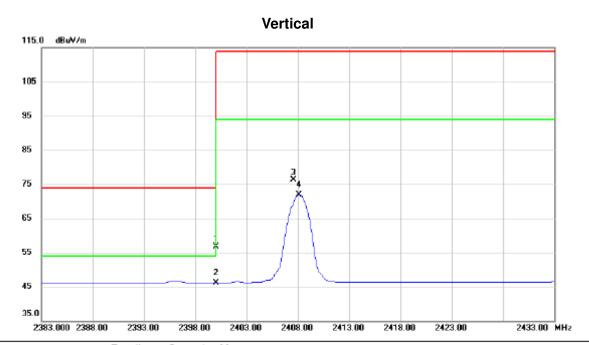
| ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ) |
|--|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

Report No.: BTL-FCCP-1-1801C013B Page 42 of 57





Test Mode TX Mode_2408 MHz



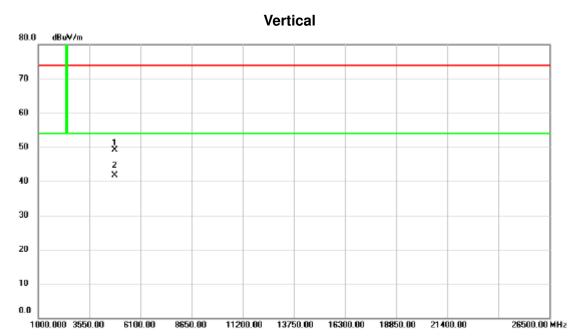
| | No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|---|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
| _ | | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| | 1 | 2 | 2400.000 | 23.61 | 33.09 | 56.70 | 74.00 | -17.30 | peak | |
| | 2 | * 2 | 2400.000 | 12.94 | 33.09 | 46.03 | 54.00 | -7.97 | AVG | |
| | 3 | 2 | 2407.575 | 43.13 | 33.12 | 76.25 | 114.00 | -37.75 | peak | |
| | 4 | 2 | 2408.125 | 38.88 | 33.12 | 72.00 | 94.00 | -22.00 | AVG | |

Report No.: BTL-FCCP-1-1801C013B Page 43 of 57









| No. | Mk. | Freq. | Reading Level | | Measure- ment | Limit | Margin | | |
|-----|-----|---------|------------------|------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4 | 817.087 | 42.55 | 6.64 | 49.19 | 74.00 | -24.81 | peak | |
| 2 | * 4 | 817.140 | 35.14 | 6.64 | 41.78 | 54.00 | -12.22 | AVG | |

Report No.: BTL-FCCP-1-1801C013B Page 44 of 57





Test Mode TX Mode_2408 MHz

2383.000 2388.00

2393.00

2398.00

2403.00

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 2395.950 | 24.76 | 33.08 | 57.84 | 74.00 | -16.16 | peak | |
| 2 | * | 2395.950 | 14.78 | 33.08 | 47.86 | 54.00 | -6.14 | AVG | |
| 3 | | 2400.000 | 23.29 | 33.09 | 56.38 | 74.00 | -17.62 | peak | |
| 4 | | 2400.000 | 13.01 | 33.09 | 46.10 | 54.00 | -7.90 | AVG | |
| 5 | | 2407.600 | 47.19 | 33.12 | 80.31 | 114.00 | -33.69 | peak | |
| 6 | | 2408.125 | 43.02 | 33.12 | 76.14 | 94.00 | -17.86 | AVG | |

2408.00

2413.00

2418.00

2423.00

2433.00 MHz

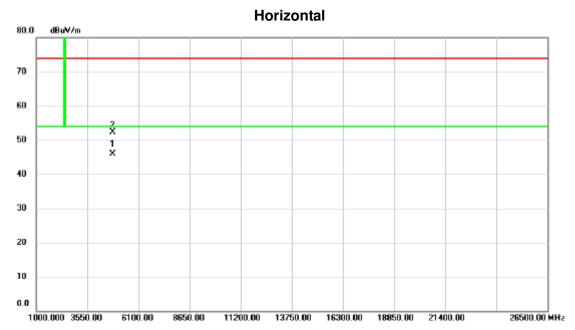
Report No.: BTL-FCCP-1-1801C013B Page 45 of 57





Page 46 of 57





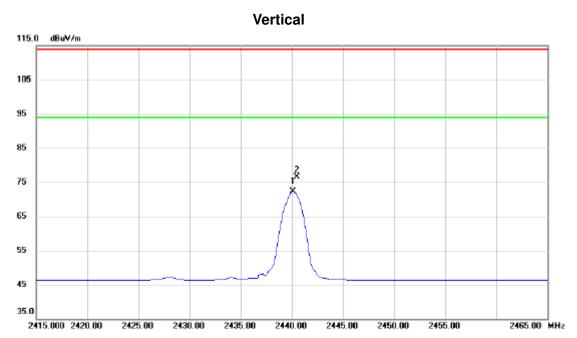
| No. | Mk. | Freq. | Reading Level | | Measure- ment | Limit | Margin | | |
|-----|-----|----------|------------------|------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 4817.065 | 39.17 | 6.64 | 45.81 | 54.00 | -8.19 | AVG | |
| 2 | | 4817.083 | 45.74 | 6.64 | 52.38 | 74.00 | -21.62 | peak | |

Report No.: BTL-FCCP-1-1801C013B





Test Mode TX Mode_2440 MHz



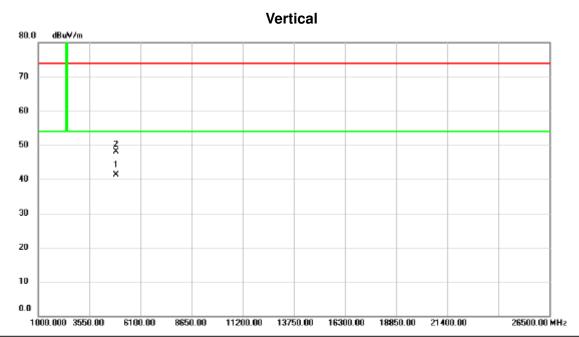
| No. MI | k. Freq. | | | Measure- ment | | Margin | | |
|--------|----------|-------|-------|------------------|--------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2440.125 | 39.05 | 33.24 | 72.29 | 94.00 | -21.71 | AVG | |
| 2 | 2440.525 | 43.22 | 33.25 | 76.47 | 114.00 | -37.53 | peak | |

Report No.: BTL-FCCP-1-1801C013B Page 47 of 57





Test Mode TX Mode_2440 MHz



| No. | Mk | . Freq. | | | Measure- ment | | Margin | | |
|-----|----|----------|-------|------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 4881.085 | 34.35 | 6.87 | 41.22 | 54.00 | -12.78 | AVG | |
| 2 | | 4881.212 | 41.33 | 6.87 | 48.20 | 74.00 | -25.80 | peak | |

Report No.: BTL-FCCP-1-1801C013B Page 48 of 57





Test Mode TX Mode_2440 MHz Horizontal 115.0 dBuV/m 105 95 85 75 65 55 45 35.0 2415.000 2420.00 2425.00 2430.00 2435.00 2440.00 2445.00 2450.00 2455.00 2465.00 MHz

| N | o. I | Mk. | Freq. | Reading Level | | Measure- ment | | Margin | | |
|---|------|-----|---------|------------------|-------|------------------|--------|--------|----------|---------|
| | | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| | 1 | 24 | 439.600 | 48.13 | 33.24 | 81.37 | 114.00 | -32.63 | peak | |
| | 2 * | 24 | 440.125 | 44.10 | 33.24 | 77.34 | 94.00 | -16.66 | AVG | |

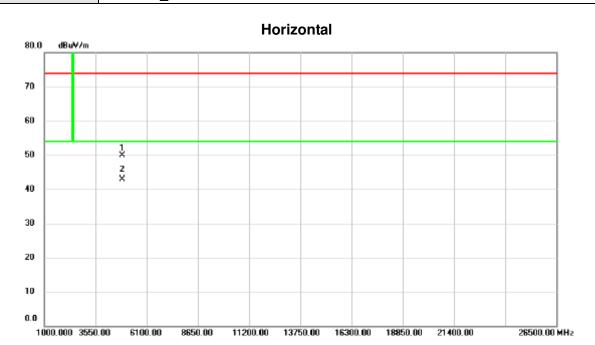
Report No.: BTL-FCCP-1-1801C013B Page 49 of 57





Page 50 of 57

Test Mode TX Mode_2440 MHz



| No. | Mk. | Freq. | Reading Level | | Measure- ment | Limit | Margin | | |
|-----|-----|----------|------------------|------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 4879.063 | 43.05 | 6.86 | 49.91 | 74.00 | -24.09 | peak | |
| 2 | * | 4881.073 | 36.06 | 6.87 | 42.93 | 54.00 | -11.07 | AVG | |

Report No.: BTL-FCCP-1-1801C013B





Test Mode TX Mode_2474 MHz

Vertical 115.0 dBuV/m 105 95 85 75 65 55 45 35.0 2499.00 MHz 2449.000 2454.00 2459.00 2464.00 2469.00 2474.00 2479.00 2489.00 2484.00

| No. | Mk. | Freq. | | | Measure- ment | Limit | Margin | | |
|-----|-----|----------|-------|-------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 2473.550 | 41.93 | 33.37 | 75.30 | 114.00 | -38.70 | peak | |
| 2 | | 2474.125 | 37.70 | 33.37 | 71.07 | 94.00 | -22.93 | AVG | |
| 3 | | 2483.500 | 22.61 | 33.41 | 56.02 | 74.00 | -17.98 | peak | |
| 4 | * | 2483.500 | 12.89 | 33.41 | 46.30 | 54.00 | -7.70 | AVG | |

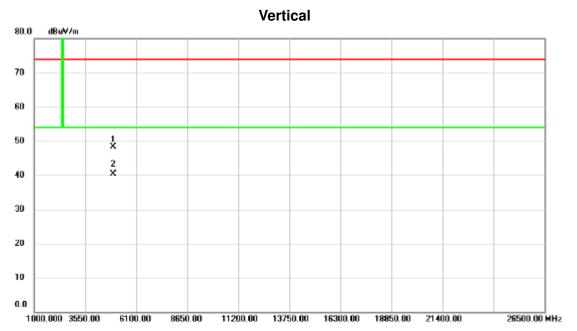
Report No.: BTL-FCCP-1-1801C013B Page 51 of 57





Page 52 of 57





| No. | Mk. | Freq. | Reading Level | | Measure- ment | Limit | Margin | | |
|-----|-----|----------|------------------|------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4 | 4947.095 | 41.12 | 7.10 | 48.22 | 74.00 | -25.78 | peak | |
| 2 | * . | 4949.087 | 33.18 | 7.11 | 40.29 | 54.00 | -13.71 | AVG | |

Report No.: BTL-FCCP-1-1801C013B





Test Mode TX Mode_2474 MHz Horizontal 115.0 dBu\/m 105 95 85 75 65 55 45 35.0 2499.00 MHz 2449.000 2454.00 2479.00 2489.00 2459.00 2464.00 2469.00 2474.00 2484.00

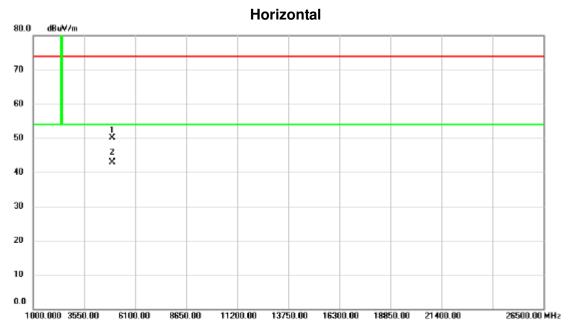
| No. | Mk. | Freq. | Reading Level | | Measure- ment | Limit | Margin | | |
|-----|-----|----------|------------------|-------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 2473.575 | 48.35 | 33.37 | 81.72 | 114.00 | -32.28 | peak | |
| 2 | | 2474.125 | 44.28 | 33.37 | 77.65 | 94.00 | -16.35 | AVG | |
| 3 | | 2483.500 | 22.64 | 33.41 | 56.05 | 74.00 | -17.95 | peak | |
| 4 | * | 2483.500 | 12.90 | 33.41 | 46.31 | 54.00 | -7.69 | AVG | |

Report No.: BTL-FCCP-1-1801C013B Page 53 of 57









| No. | Mk. | Freq. | | | Measure- ment | | Margin | | |
|-----|-----|----------|-------|------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | - | 4947.010 | 43.02 | 7.10 | 50.12 | 74.00 | -23.88 | peak | |
| 2 | * | 4949.092 | 35.76 | 7.11 | 42.87 | 54.00 | -11.13 | AVG | |

Report No.: BTL-FCCP-1-1801C013B





Report No.: BTL-FCCP-1-1801C013B Page 55 of 57

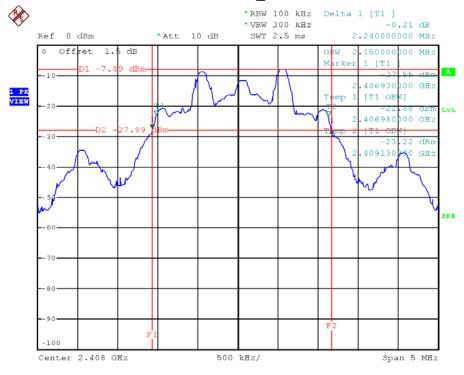




Test Mode: TX Mode_2408 MHz/2440 MHz/2474 MHz

| Frequency (MHz) | 20dB Bandwidth (MHz) | 99% Occupied BW (MHz) |
|--------------------|-------------------------|--------------------------|
| 2408 | 2.240 | 2.15 |
| 2440 | 2.240 | 2.15 |
| 2474 | 2.240 | 2.15 |

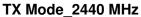
TX Mode_2408 MHz

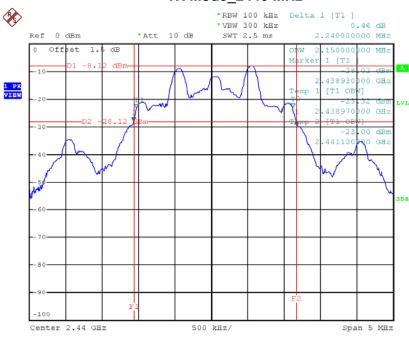


Report No.: BTL-FCCP-1-1801C013B Page 56 of 57

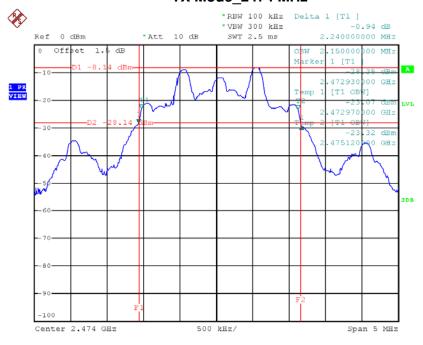








TX Mode_2474 MHz



Report No.: BTL-FCCP-1-1801C013B Page 57 of 57