

FCC Test Report

| | |
|--------------|------------|
| Product Name | TABLET PC |
| Model No. | T10C |
| FCC ID. | ZWMT10CA10 |

| | |
|-----------|---|
| Applicant | Ubiqconn Technology, Inc. |
| Address | No. 300 Yang Guang St., NeiHu, Taipei, Taiwan 114 |

| | |
|-----------------|--------------------|
| Date of Receipt | May. 20, 2013 |
| Issued Date | June. 14, 2013 |
| Report No. | 135269R-RFUSP43V01 |
| Report Version | V1.0 |



The Test Results relate only to the samples tested.

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Test Report Certification

Issued Date: June. 14, 2013

Report No.: 135269R-RFUSP43V01



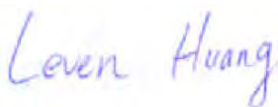
| | |
|---------------------|---|
| Product Name | TABLET PC |
| Applicant | Ubiquconn Technology, Inc. |
| Address | No. 300 Yang Guang St., NeiHu, Taipei, Taiwan 114 |
| Manufacturer | Ubiquconn Technology, Inc. |
| Model No. | T10C |
| FCC ID. | ZWMT10CA10 |
| EUT Rated Voltage | AC 100-240V, 50-60Hz |
| EUT Test Voltage | AC 120V/60Hz |
| Trade Name | Ubiquconn, UTI |
| Applicable Standard | FCC CFR Title 47 Part 15 Subpart C: 2012 ANSI C63.4: 2003, ANSI C63.10: 2009 |
| Test Result | Complied |

The Test Results relate only to the samples tested.

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Documented By :



(Senior Adm. Specialist / Leven Huang)

Tested By :



(Engineer / Nowal Kuo)

Approved By :



(Manager / Vincent Lin)

TABLE OF CONTENTS

| Description | Page |
|--|-----------|
| 1. GENERAL INFORMATION | 5 |
| 1.1. EUT Description..... | 5 |
| 1.2. Operational Description..... | 8 |
| 1.3. Tested System Details..... | 9 |
| 1.4. Configuration of Tested System | 9 |
| 1.5. EUT Exercise Software | 10 |
| 1.6. Test Facility | 11 |
| 2. CONDUCTED EMISSION | 12 |
| 2.1. Test Equipment..... | 12 |
| 2.2. Test Setup | 12 |
| 2.3. Limits..... | 13 |
| 2.4. Test Procedure | 13 |
| 2.5. Uncertainty | 13 |
| 2.6. Test Result of Conducted Emission..... | 14 |
| 3. PEAK POWER OUTPUT | 18 |
| 3.1. Test Equipment..... | 18 |
| 3.2. Test Setup | 18 |
| 3.3. Limit | 18 |
| 3.4. Test Procedure | 18 |
| 3.5. Uncertainty | 18 |
| 3.6. Test Result of Peak Power Output..... | 19 |
| 4. RADIATED EMISSION | 22 |
| 4.1. Test Equipment..... | 22 |
| 4.2. Test Setup | 22 |
| 4.3. Limits..... | 23 |
| 4.4. Test Procedure | 24 |
| 4.5. Uncertainty | 24 |
| 4.6. Test Result of Radiated Emission..... | 25 |
| 5. RF ANTENNA CONDUCTED TEST | 37 |
| 5.1. Test Equipment..... | 37 |
| 5.2. Test Setup | 37 |
| 5.3. Limits..... | 37 |
| 5.4. Test Procedure | 37 |
| 5.5. Uncertainty | 37 |
| 5.6. Test Result of RF Antenna Conducted Test..... | 38 |
| 6. BAND EDGE | 56 |
| 6.1. Test Equipment..... | 56 |
| 6.2. Test Setup | 57 |
| 6.3. Limit | 58 |
| 6.4. Test Procedure | 58 |
| 6.5. Uncertainty | 58 |
| 6.6. Test Result of Band Edge | 59 |
| 7. CHANNEL NUMBER..... | 71 |
| 7.1. Test Equipment..... | 71 |
| 7.2. Test Setup | 71 |
| 7.3. Limit | 71 |
| 7.4. Test Procedure | 71 |
| 7.5. Uncertainty | 71 |
| 7.6. Test Result of Channel Number..... | 72 |
| 8. CHANNEL SEPARATION..... | 74 |
| 8.1. Test Equipment..... | 74 |
| 8.2. Test Setup | 74 |
| 8.3. Limit | 74 |
| 8.4. Test Procedure | 74 |
| 8.5. Uncertainty | 74 |
| 8.6. Test Result of Channel Separation..... | 75 |
| 9. DWELL TIME..... | 79 |
| 9.1. Test Equipment..... | 79 |

| | | |
|--|---|-----------|
| 9.2. | Test Setup | 79 |
| 9.3. | Limit | 79 |
| 9.4. | Test Procedure | 79 |
| 9.5. | Uncertainty | 79 |
| 9.6. | Test Result of Dwell Time | 80 |
| 10. | OCCUPIED BANDWIDTH (20DB BW)..... | 84 |
| 10.1. | Test Equipment | 84 |
| 10.2. | Test Setup | 84 |
| 10.3. | Limits..... | 84 |
| 10.4. | Test Procedure | 84 |
| 10.5. | Uncertainty | 84 |
| 10.6. | Test Result of Occupied Bandwidth | 85 |
| 11. | OCCUPIED BANDWIDTH (6DB BW)..... | 91 |
| 11.1. | Test Equipment | 91 |
| 11.2. | Test Setup | 91 |
| 11.3. | Limits..... | 91 |
| 11.4. | Test Procedure | 91 |
| 11.5. | Uncertainty | 91 |
| 11.6. | Test Result of Occupied Bandwidth | 92 |
| 12. | POWER DENSITY | 95 |
| 12.1. | Test Equipment | 95 |
| 12.2. | Test Setup | 95 |
| 12.3. | Limits..... | 95 |
| 12.4. | Test Procedure | 95 |
| 12.5. | Uncertainty | 95 |
| 12.6. | Test Result of Power Density | 96 |
| 13. | EMI REDUCTION METHOD DURING COMPLIANCE TESTING | 99 |
| Attachment 1: EUT Test Photographs | | |
| Attachment 2: EUT Detailed Photographs | | |

1. GENERAL INFORMATION

1.1. EUT Description

| | |
|--------------------|---|
| Product Name | TABLET PC |
| Trade Name | Ubiquconn,UTI |
| Model No. | T10C |
| FCC ID. | ZWMT10CA10 |
| Frequency Range | 2402 – 2480MHz |
| Channel Number | V3.0+HS, V2.1+EDR: 79CH V4.0: 40CH |
| Type of Modulation | V3.0+HS, V2.1+EDR: GFSK(1Mbps) / π /4DQPSK(2Mbps) / 8DPSK(3Mbps) V4.0: GFSK(1Mbps) |
| Antenna Type | Printed on PCB |
| Channel Control | Auto |
| Antenna Gain | Refer to the table “Antenna List” |
| Power Cable | Shielded, 1.7m |
| LAN to Mini USB | 1 set |
| Power Adapter | MFR: FSP, M/N: FSP065-RAB Input: AC 100-240V, 50-60Hz, 1.5A Output: DC 19V, 3.42A Cable out: Shielded, 1.6m, with one ferrite core bonded. |
| Contain Module | CastleNet / BSLIM2-A10 |

Antenna List

| No. | Manufacturer | Part No. | Antenna Type | Peak Gain |
|-----|--------------|----------|----------------|-----------------|
| 1 | CastleNet | NA | Printed on PCB | 1dBi For 2.4GHz |

Note:

The antenna of EUT is conform to FCC 15.203.

Center Frequency of Each Channel: (For V3.0+HS, V2.1+EDR)

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Channel 00: | 2402 MHz | Channel 20: | 2422 MHz | Channel 40: | 2442 MHz | Channel 60: | 2462 MHz |
| Channel 01: | 2403 MHz | Channel 21: | 2423 MHz | Channel 41: | 2443 MHz | Channel 61: | 2463 MHz |
| Channel 02: | 2404 MHz | Channel 22: | 2424 MHz | Channel 42: | 2444 MHz | Channel 62: | 2464 MHz |
| Channel 03: | 2405 MHz | Channel 23: | 2425 MHz | Channel 43: | 2445 MHz | Channel 63: | 2465 MHz |
| Channel 04: | 2406 MHz | Channel 24: | 2426 MHz | Channel 44: | 2446 MHz | Channel 64: | 2466 MHz |
| Channel 05: | 2407 MHz | Channel 25: | 2427 MHz | Channel 45: | 2447 MHz | Channel 65: | 2467 MHz |
| Channel 06: | 2408 MHz | Channel 26: | 2428 MHz | Channel 46: | 2448 MHz | Channel 66: | 2468 MHz |
| Channel 07: | 2409 MHz | Channel 27: | 2429 MHz | Channel 47: | 2449 MHz | Channel 67: | 2469 MHz |
| Channel 08: | 2410 MHz | Channel 28: | 2430 MHz | Channel 48: | 2450 MHz | Channel 68: | 2470 MHz |
| Channel 09: | 2411 MHz | Channel 29: | 2431 MHz | Channel 49: | 2451 MHz | Channel 69: | 2471 MHz |
| Channel 10: | 2412 MHz | Channel 30: | 2432 MHz | Channel 50: | 2452 MHz | Channel 70: | 2472 MHz |
| Channel 11: | 2413 MHz | Channel 31: | 2433 MHz | Channel 51: | 2453 MHz | Channel 71: | 2473 MHz |
| Channel 12: | 2414 MHz | Channel 32: | 2434 MHz | Channel 52: | 2454 MHz | Channel 72: | 2474 MHz |
| Channel 13: | 2415 MHz | Channel 33: | 2435 MHz | Channel 53: | 2455 MHz | Channel 73: | 2475 MHz |
| Channel 14: | 2416 MHz | Channel 34: | 2436 MHz | Channel 54: | 2456 MHz | Channel 74: | 2476 MHz |
| Channel 15: | 2417 MHz | Channel 35: | 2437 MHz | Channel 55: | 2457 MHz | Channel 75: | 2477 MHz |
| Channel 16: | 2418 MHz | Channel 36: | 2438 MHz | Channel 56: | 2458 MHz | Channel 76: | 2478 MHz |
| Channel 17: | 2419 MHz | Channel 37: | 2439 MHz | Channel 57: | 2459 MHz | Channel 77: | 2479 MHz |
| Channel 18: | 2420 MHz | Channel 38: | 2440 MHz | Channel 58: | 2460 MHz | Channel 78: | 2480 MHz |
| Channel 19: | 2421 MHz | Channel 39: | 2441 MHz | Channel 59: | 2461 MHz | | |

Center Frequency of Each Channel: (For V4.0)

| Channel | Frequency | Channel | Frequency |
|-------------|-----------|-------------|-----------|
| Channel 00: | 2402 MHz | Channel 20: | 2442 MHz |
| Channel 01: | 2404 MHz | Channel 21: | 2444 MHz |
| Channel 02: | 2406 MHz | Channel 22: | 2446 MHz |
| Channel 03: | 2408 MHz | Channel 23: | 2448 MHz |
| Channel 04: | 2410 MHz | Channel 24: | 2450 MHz |
| Channel 05: | 2412 MHz | Channel 25: | 2452 MHz |
| Channel 06: | 2414 MHz | Channel 26: | 2454 MHz |
| Channel 07: | 2416 MHz | Channel 27: | 2456 MHz |
| Channel 08: | 2418 MHz | Channel 28: | 2458 MHz |
| Channel 09: | 2420 MHz | Channel 29: | 2460 MHz |
| Channel 10: | 2422 MHz | Channel 30: | 2462 MHz |
| Channel 11: | 2424 MHz | Channel 31: | 2464 MHz |
| Channel 12: | 2426 MHz | Channel 32: | 2466 MHz |
| Channel 13: | 2428 MHz | Channel 33: | 2468 MHz |
| Channel 14: | 2430 MHz | Channel 34: | 2470 MHz |
| Channel 15: | 2432 MHz | Channel 35: | 2472 MHz |
| Channel 16: | 2434 MHz | Channel 36: | 2474 MHz |
| Channel 17: | 2436 MHz | Channel 37: | 2476 MHz |
| Channel 18: | 2438 MHz | Channel 38: | 2478 MHz |
| Channel 19: | 2440 MHz | Channel 39: | 2480 MHz |

Note:

1. This device is a TABLET PC, Contains functions and so on WiFi 、Bluetooth , This report for Bluetooth.
2. These tests were conducted on a sample for the purpose of demonstrating compliance of Bluetooth transmitter with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
3. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
4. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

| | |
|-----------|--|
| Test Mode | Mode 1: Transmit - 1Mbps (GFSK) Mode 2: Transmit - 3Mbps (8DPSK) Mode 3: Transmit - BLE (GFSK) |
|-----------|--|

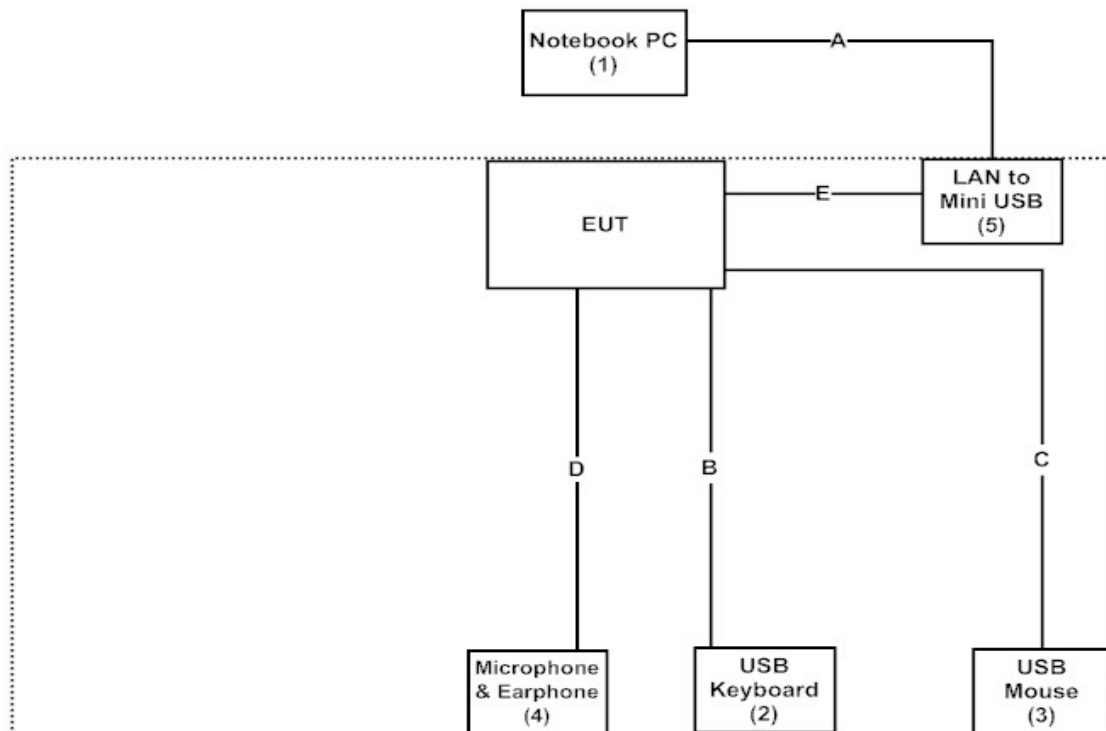
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Product | Manufacturer | Model No. | Serial No. | Power Cord |
|---------------------------|--------------|-----------|------------|--------------------|
| (1) Notebook PC | DELL | PPT | N/A | Non-Shielded, 0.8m |
| (2) USB Keyboard | Logitech | Y-UR83 | 8UK | N/A |
| (3) USB Mouse | DELL | M056U0A | F0Y01YEC | N/A |
| (4) Microphone & Earphone | Ubiqconn | N/A | N/A | N/A |
| (5) LAN to Mini USB | Ubiqconn | N/A | N/A | N/A |

| Signal Cable Type | Signal cable Description |
|-------------------------------|--------------------------|
| A RJ45 Cable | Non-Shielded, 1.8m |
| B USB Keyboard Cable | Shielded, 1.8m |
| C USB Mouse Cable | Shielded, 1.8m |
| D Microphone & Earphone Cable | Non-Shielded, 1.2m |
| E LAN to Mini USB Cable | Non-Shielded, 0.1m |

1.4. Configuration of Tested System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4.
- (2) Execute program “Bluesuite v2.5” on the EUT.
- (3) Configure the test mode, the test channel, and the data rate.
- (4) Press “OK” to start the continuous Transmit.
- (5) Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

| Items | Required (IEC 68-1) | Actual |
|----------------------------|---------------------|----------|
| Temperature (°C) | 15-35 | 20-35 |
| Humidity (%RH) | 25-75 | 30-65 |
| Barometric pressure (mbar) | 860-1060 | 950-1000 |

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site: <http://www.quietek.com/tw/ctg/cts/accreditations.htm>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site: <http://www.quietek.com/>

Site Description: File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 92195

Accreditation on NVLAP
NVLAP Lab Code: 200533-0

Site Name: Quietek Corporation
Site Address: No.5-22, Ruishukeng,
Linkou Dist. New Taipei City 24451,
Taiwan, R.O.C.
TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
E-Mail : service@quietek.com

FCC Accreditation Number: TW1014

2. Conducted Emission

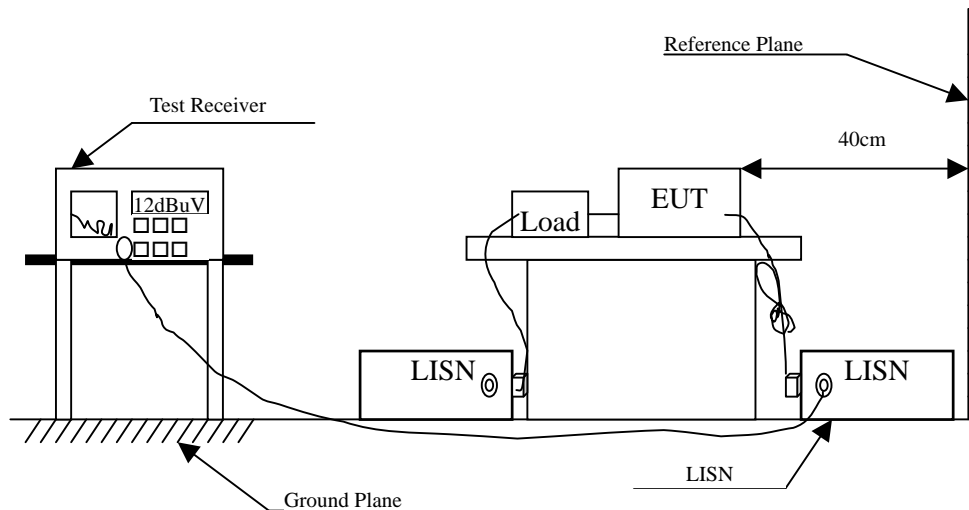
2.1. Test Equipment

| | Equipment | Manufacturer | Model No. / Serial No. | Last Cal. | Remark |
|---|--------------------------|--------------|------------------------|------------|-------------|
| X | Test Receiver | R & S | ESCS 30 / 825442/018 | Sep., 2012 | |
| X | Artificial Mains Network | R & S | ENV4200 / 848411/10 | Feb., 2013 | Peripherals |
| X | LISN | R & S | ESH3-Z5 / 825562/002 | Feb., 2013 | EUT |
| | DC LISN | Schwarzbeck | 8226 / 176 | Mar, 2013 | EUT |
| X | Pulse Limiter | R & S | ESH3-Z2 / 357.8810.52 | Feb., 2013 | |
| | No.1 Shielded Room | | | | |

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked by "X" are used to measure the final test results.

2.2. Test Setup



2.3. Limits

| FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit | | |
|---|--------|-------|
| Frequency MHz | Limits | |
| | QP | AV |
| 0.15 - 0.50 | 66-56 | 56-46 |
| 0.50-5.0 | 56 | 46 |
| 5.0 - 30 | 60 | 50 |

Remarks: In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT and Peripherals are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all the interface cables must be changed according to ANSI C63.10, 2009 on conducted measurement.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

The EUT was setup to ANSI C63.10, 2009; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

2.5. Uncertainty

± 2.26 dB

2.6. Test Result of Conducted Emission

Product : TABLET PC
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2441MHz)

| Frequency MHz | Correct Factor dB | Reading Level dBuV | Measurement Level dBuV | Margin dB | Limit dBuV |
|-------------------|-------------------------|--------------------------|------------------------------|--------------|---------------|
| LINE 1 | | | | | |
| Quasi-Peak | | | | | |
| 0.185 | 9.790 | 35.800 | 45.590 | -19.410 | 65.000 |
| 0.513 | 9.790 | 29.700 | 39.490 | -16.510 | 56.000 |
| 0.650 | 9.790 | 40.310 | 50.100 | -5.900 | 56.000 |
| 0.818 | 9.790 | 34.460 | 44.250 | -11.750 | 56.000 |
| 1.431 | 9.800 | 31.210 | 41.010 | -14.990 | 56.000 |
| 2.654 | 9.810 | 27.770 | 37.580 | -18.420 | 56.000 |
| Average | | | | | |
| 0.185 | 9.790 | 24.690 | 34.480 | -20.520 | 55.000 |
| 0.513 | 9.790 | 16.180 | 25.970 | -20.030 | 46.000 |
| 0.650 | 9.790 | 24.690 | 34.480 | -11.520 | 46.000 |
| 0.818 | 9.790 | 21.120 | 30.910 | -15.090 | 46.000 |
| 1.431 | 9.800 | 22.280 | 32.080 | -13.920 | 46.000 |
| 2.654 | 9.810 | 15.130 | 24.940 | -21.060 | 46.000 |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " " means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : TABLET PC
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2441MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-------------------|---------|---------|-------------|---------|--------|
| MHz | Factor | Level | Level | dB | dBuV |
| | dB | dBuV | dBuV | | |
| LINE 2 | | | | | |
| Quasi-Peak | | | | | |
| 0.197 | 9.770 | 37.130 | 46.900 | -17.757 | 64.657 |
| 0.373 | 9.770 | 28.220 | 37.990 | -21.639 | 59.629 |
| 0.615 | 9.770 | 37.230 | 47.000 | -9.000 | 56.000 |
| 0.658 | 9.770 | 40.860 | 50.630 | -5.370 | 56.000 |
| 1.064 | 9.780 | 31.550 | 41.330 | -14.670 | 56.000 |
| 2.302 | 9.790 | 28.880 | 38.670 | -17.330 | 56.000 |
| Average | | | | | |
| 0.197 | 9.770 | 25.760 | 35.530 | -19.127 | 54.657 |
| 0.373 | 9.770 | 15.810 | 25.580 | -24.049 | 49.629 |
| 0.615 | 9.770 | 23.600 | 33.370 | -12.630 | 46.000 |
| 0.658 | 9.770 | 25.240 | 35.010 | -10.990 | 46.000 |
| 1.064 | 9.780 | 15.590 | 25.370 | -20.630 | 46.000 |
| 2.302 | 9.790 | 15.640 | 25.430 | -20.570 | 46.000 |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " " means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : TABLET PC
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 3: Transmit - BLE (GFSK) (2440MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-------------------|---------|---------|-------------|---------|--------|
| MHz | Factor | Level | Level | dB | dBuV |
| | dB | dBuV | dBuV | | |
| LINE 1 | | | | | |
| Quasi-Peak | | | | | |
| 0.193 | 9.790 | 38.680 | 48.470 | -16.301 | 64.771 |
| 0.283 | 9.790 | 28.410 | 38.200 | -24.000 | 62.200 |
| 0.408 | 9.790 | 30.820 | 40.610 | -18.019 | 58.629 |
| 0.509 | 9.790 | 34.580 | 44.370 | -11.630 | 56.000 |
| 0.752 | 9.790 | 35.470 | 45.260 | -10.740 | 56.000 |
| 1.115 | 9.790 | 32.970 | 42.760 | -13.240 | 56.000 |
| Average | | | | | |
| 0.193 | 9.790 | 25.650 | 35.440 | -19.331 | 54.771 |
| 0.283 | 9.790 | 14.610 | 24.400 | -27.800 | 52.200 |
| 0.408 | 9.790 | 19.940 | 29.730 | -18.899 | 48.629 |
| 0.509 | 9.790 | 23.020 | 32.810 | -13.190 | 46.000 |
| 0.752 | 9.790 | 17.510 | 27.300 | -18.700 | 46.000 |
| 1.115 | 9.790 | 17.550 | 27.340 | -18.660 | 46.000 |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : TABLET PC
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 3: Transmit - BLE (GFSK) (2440MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-------------------|---------|---------|-------------|---------|--------|
| MHz | Factor | Level | Level | | |
| | dB | dBuV | dBuV | dB | dBuV |
| LINE 2 | | | | | |
| Quasi-Peak | | | | | |
| 0.189 | 9.770 | 39.120 | 48.890 | -15.996 | 64.886 |
| 0.291 | 9.770 | 28.230 | 38.000 | -23.971 | 61.971 |
| 0.502 | 9.770 | 33.570 | 43.340 | -12.660 | 56.000 |
| 0.560 | 9.770 | 33.270 | 43.040 | -12.960 | 56.000 |
| 0.740 | 9.780 | 36.740 | 46.520 | -9.480 | 56.000 |
| 1.611 | 9.790 | 31.200 | 40.990 | -15.010 | 56.000 |
| Average | | | | | |
| 0.189 | 9.770 | 25.270 | 35.040 | -19.846 | 54.886 |
| 0.291 | 9.770 | 20.500 | 30.270 | -21.701 | 51.971 |
| 0.502 | 9.770 | 24.020 | 33.790 | -12.210 | 46.000 |
| 0.560 | 9.770 | 23.100 | 32.870 | -13.130 | 46.000 |
| 0.740 | 9.780 | 19.280 | 29.060 | -16.940 | 46.000 |
| 1.611 | 9.790 | 14.620 | 24.410 | -21.590 | 46.000 |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

3. Peak Power Output

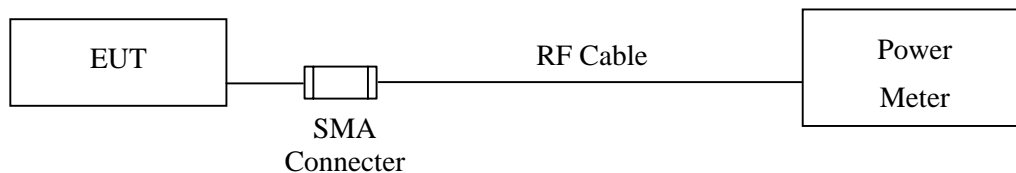
3.1. Test Equipment

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|--------------|--------------|----------------------|-----------|
| X | Power Meter | Anritsu | ML2495A/6K00003357 | May, 2013 |
| X | Power Sensor | Anritsu | MA2411B/0738448 | Jun, 2013 |

3Note: 1. All equipments are calibrated every one year.

2. The test instruments marked by “X” are used to measure the final test results.

3.2. Test Setup



3.3. Limit

The maximum peak power shall be less 1Watt.

3.4. Test Procedure

The EUT was setup to ANSI C63.10, 2009; tested to FHSS test procedure of FCC Public Notice DA 00-705 and ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements.

3.5. Uncertainty

± 1.27 dB

3.6. Test Result of Peak Power Output

Product : TABLET PC
 Test Item : Peak Power Output
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 1Mbps (GFSK)

| Channel No. | Frequency (MHz) | Measurement (dBm) | Required Limit | Result |
|-------------|--------------------|----------------------|----------------|--------|
| Channel 00 | 2402.00 | 8.56 | 1 Watt= 30 dBm | Pass |
| Channel 39 | 2441.00 | 8.93 | 1 Watt= 30 dBm | Pass |
| Channel 78 | 2480.00 | 8.24 | 1 Watt= 30 dBm | Pass |

Product : TABLET PC
Test Item : Peak Power Output
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK)

| Channel No. | Frequency (MHz) | Measurement (dBm) | Required Limit | Result |
|-------------|--------------------|----------------------|----------------|--------|
| Channel 00 | 2402.00 | 8.36 | 1 Watt= 30 dBm | Pass |
| Channel 39 | 2441.00 | 8.41 | 1 Watt= 30 dBm | Pass |
| Channel 78 | 2480.00 | 8.36 | 1 Watt= 30 dBm | Pass |

Product : TABLET PC
Test Item : Peak Power Output
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - BLE (GFSK)

| Channel No. | Frequency (MHz) | Measurement (dBm) | Required Limit | Result |
|-------------|--------------------|----------------------|----------------|--------|
| Channel 00 | 2402.00 | 8.56 | 1 Watt= 30 dBm | Pass |
| Channel 19 | 2440.00 | 8.65 | 1 Watt= 30 dBm | Pass |
| Channel 39 | 2480.00 | 8.82 | 1 Watt= 30 dBm | Pass |

4. Radiated Emission

4.1. Test Equipment

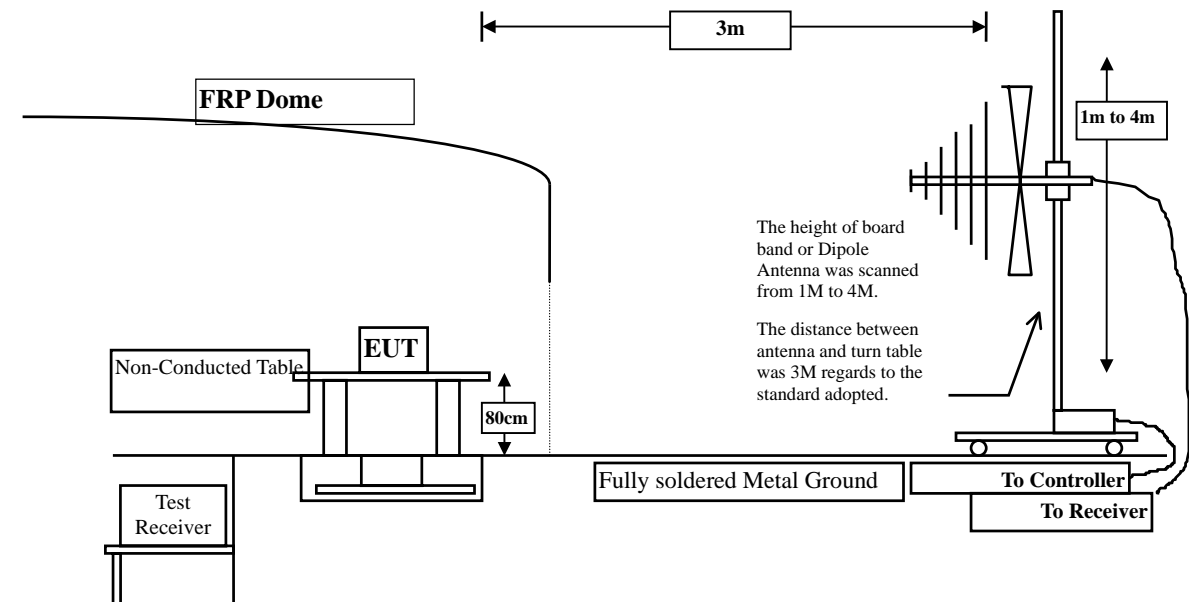
The following test equipments are used during the radiated emission test:

| Test Site | | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|------------|---|-------------------|-----------------|-----------------------|------------|
| ☒ Site # 3 | X | Loop Antenna | Teseq | HLA6120 / 26739 | Jul., 2012 |
| | X | Bilog Antenna | Schaffner Chase | CBL6112B/2673 | Sep., 2012 |
| | X | Horn Antenna | Schwarzbeck | BBHA9120D/D305 | Sep., 2012 |
| | X | Horn Antenna | Schwarzbeck | BBHA9170/208 | Jul., 2012 |
| | X | Pre-Amplifier | Agilent | 8447D/2944A09549 | Sep., 2012 |
| | X | Spectrum Analyzer | Agilent | E4407B / US39440758 | May, 2013 |
| | X | Test Receiver | R & S | ESCS 30/ 825442/018 | Sep., 2012 |
| | X | Coaxial Cable | QuieTek | QTK-CABLE/ CAB5 | Feb., 2013 |
| | X | Controller | QuieTek | QTK-CONTROLLER/ CTRL3 | N/A |
| | X | Coaxial Switch | Anritsu | MP59B/6200265729 | N/A |

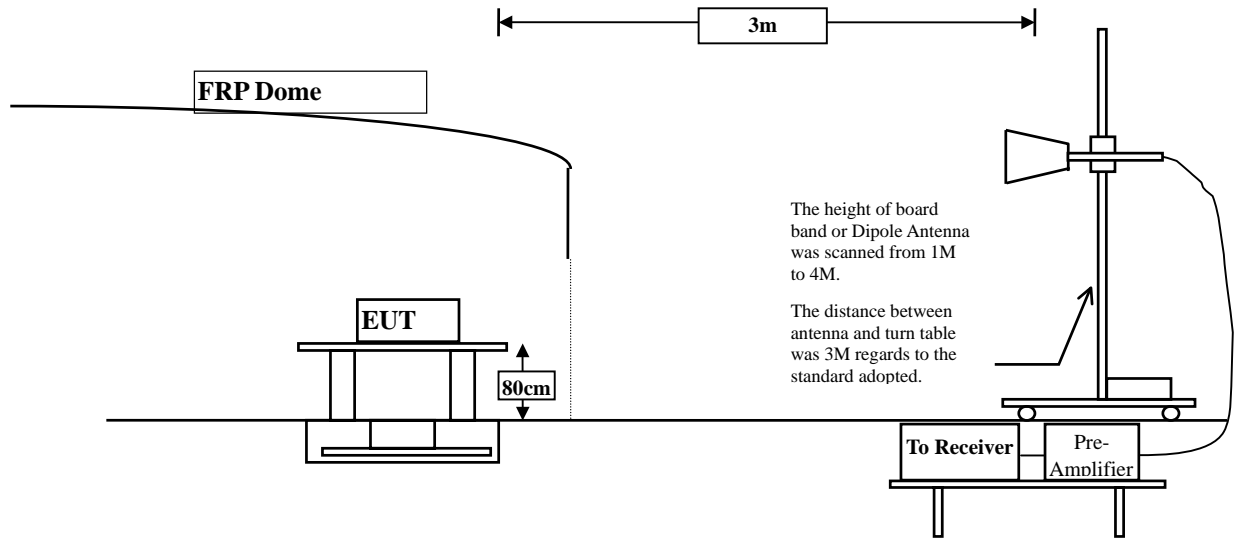
- Note: 1. All equipments are calibrated every one year.
2. The test instruments marked by “X” are used to measure the final test results.

4.2. Test Setup

Below 1GHz



Above 1GHz



4.3. Limits

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

| FCC Part 15 Subpart C Paragraph 15.209 Limits | | |
|---|-----------------------------------|------------------------------|
| Frequency MHz | Field strength (microvolts/meter) | Measurement distance (meter) |
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

- Remarks:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2009 and tested according to FHSS test procedure of FCC Public Notice DA 00-705 and ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2009 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas. The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The worst radiated emission is measured on the Final Measurement.

The measurement frequency range from 9KHz - 10th Harmonic of fundamental was investigated.

4.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

4.6. Test Result of Radiated Emission

Product : TABLET PC
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 1Mbps (GFSK)(2402MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-----------------------|---------|---------|-------------|---------|--------|
| MHz | Factor | Level | Level | | |
| | dB | dBuV | dBuV/m | dB | dBuV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 4804.000 | 3.327 | 40.310 | 43.637 | -30.363 | 74.000 |
| 7206.000 | 10.136 | 37.010 | 47.146 | -26.854 | 74.000 |
| 9608.000 | 13.706 | 36.780 | 50.486 | -23.514 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 4804.000 | 6.638 | 44.860 | 51.497 | -22.503 | 74.000 |
| 7206.000 | 11.005 | 36.750 | 47.755 | -26.245 | 74.000 |
| 9608.000 | 14.103 | 36.980 | 51.083 | -22.917 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : TABLET PC
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 1Mbps (GFSK)(2441MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-----------------------|---------|---------|-------------|---------|--------|
| MHz | Factor | Level | Level | | |
| | dB | dBuV | dBuV/m | dB | dBuV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 4882.000 | 3.001 | 41.560 | 44.561 | -29.439 | 74.000 |
| 7323.000 | 11.846 | 36.120 | 47.967 | -26.033 | 74.000 |
| 9764.000 | 12.563 | 37.520 | 50.083 | -23.917 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 4882.000 | 5.713 | 40.480 | 46.194 | -27.806 | 74.000 |
| 7323.000 | 12.727 | 36.520 | 49.248 | -24.752 | 74.000 |
| 9764.000 | 13.028 | 37.040 | 50.068 | -23.932 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : TABLET PC
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 1Mbps (GFSK)(2480MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-----------------------|---------|---------|-------------|---------|--------|
| MHz | Factor | Level | Level | | |
| | dB | dBuV | dBuV/m | dB | dBuV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 4960.000 | 2.760 | 43.950 | 46.710 | -27.290 | 74.000 |
| 7440.000 | 12.567 | 35.650 | 48.216 | -25.784 | 74.000 |
| 9920.000 | 13.456 | 37.770 | 51.226 | -22.774 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 4960.000 | 5.557 | 40.090 | 45.647 | -28.353 | 74.000 |
| 7440.000 | 13.426 | 37.470 | 50.895 | -23.105 | 74.000 |
| 9920.000 | 13.958 | 36.730 | 50.688 | -23.312 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : TABLET PC
Test Item : Harmonic Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK)(2402MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-----------------------|---------|---------|-------------|---------|--------|
| MHz | Factor | Level | Level | | |
| | dB | dBuV | dBuV/m | dB | dBuV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 4804.000 | 3.327 | 40.240 | 43.567 | -30.433 | 74.000 |
| 7206.000 | 10.136 | 37.420 | 47.556 | -26.444 | 74.000 |
| 9608.000 | 13.706 | 36.050 | 49.756 | -24.244 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 4804.000 | 6.638 | 46.230 | 52.867 | -21.133 | 74.000 |
| 7206.000 | 11.005 | 37.000 | 48.005 | -25.995 | 74.000 |
| 9608.000 | 14.103 | 35.980 | 50.083 | -23.917 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : TABLET PC
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2441MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-----------------------|---------|---------|-------------|---------|--------|
| MHz | Factor | Level | Level | | |
| | dB | dBuV | dBuV/m | dB | dBuV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 4882.000 | 3.001 | 39.960 | 42.961 | -31.039 | 74.000 |
| 7323.000 | 11.846 | 36.090 | 47.937 | -26.063 | 74.000 |
| 9764.000 | 12.563 | 37.210 | 49.773 | -24.227 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 4882.000 | 5.713 | 38.510 | 44.224 | -29.776 | 74.000 |
| 7323.000 | 12.727 | 36.080 | 48.808 | -25.192 | 74.000 |
| 9764.000 | 13.028 | 37.570 | 50.598 | -23.402 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : TABLET PC
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2480MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-----------------------|---------|---------|-------------|---------|--------|
| MHz | Factor | Level | Level | | |
| | dB | dBuV | dBuV/m | dB | dBuV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 4960.000 | 2.760 | 42.270 | 45.030 | -28.970 | 74.000 |
| 7440.000 | 12.567 | 35.450 | 48.016 | -25.984 | 74.000 |
| 9920.000 | 13.456 | 36.640 | 50.096 | -23.904 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 4960.000 | 5.557 | 40.950 | 46.507 | -27.493 | 74.000 |
| 7440.000 | 13.426 | 35.600 | 49.025 | -24.975 | 74.000 |
| 9920.000 | 13.958 | 36.440 | 50.398 | -23.602 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : TABLET PC
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - BLE (GFSK) (2402MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-----------------------|---------|---------|-------------|---------|--------|
| MHz | Factor | Level | Level | | |
| | dB | dBuV | dBuV/m | dB | dBuV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 4804.000 | 3.327 | 42.170 | 45.497 | -28.503 | 74.000 |
| 7206.000 | 10.136 | 37.920 | 48.056 | -25.944 | 74.000 |
| 9608.000 | 13.706 | 37.090 | 50.796 | -23.204 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 4804.000 | 6.638 | 46.890 | 53.527 | -20.473 | 74.000 |
| 7206.000 | 11.005 | 37.610 | 48.615 | -25.385 | 74.000 |
| 9608.000 | 14.103 | 37.200 | 51.303 | -22.697 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : TABLET PC
Test Item : Harmonic Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - BLE (GFSK) (2440MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-----------------------|---------|---------|-------------|---------|--------|
| MHz | Factor | Level | Level | | |
| | dB | dBuV | dBuV/m | dB | dBuV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 4880.000 | 3.010 | 41.410 | 44.420 | -29.580 | 74.000 |
| 7320.000 | 11.833 | 36.380 | 48.214 | -25.786 | 74.000 |
| 9760.000 | 12.580 | 37.620 | 50.201 | -23.799 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 4880.000 | 5.738 | 40.560 | 46.298 | -27.702 | 74.000 |
| 7320.000 | 12.703 | 36.160 | 48.863 | -25.137 | 74.000 |
| 9760.000 | 13.052 | 37.630 | 50.682 | -23.318 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : TABLET PC
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - BLE (GFSK)(2480MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-----------------------|---------|---------|-------------|---------|--------|
| MHz | Factor | Level | Level | | |
| | dB | dBuV | dBuV/m | dB | dBuV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 4960.000 | 2.760 | 43.610 | 46.370 | -27.630 | 74.000 |
| 7440.000 | 12.567 | 35.990 | 48.556 | -25.444 | 74.000 |
| 9920.000 | 13.456 | 37.070 | 50.526 | -23.474 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 4960.000 | 5.557 | 42.880 | 48.437 | -25.563 | 74.000 |
| 7440.000 | 13.426 | 35.700 | 49.125 | -24.875 | 74.000 |
| 9920.000 | 13.958 | 37.720 | 51.678 | -22.322 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : TABLET PC
Test Item : General Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit - 1Mbps (GFSK) (2441MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-------------------|---------|---------|-------------|---------|--------|
| MHz | Factor | Level | Level | | |
| | dB | dBuV | dBuV/m | dB | dBuV/m |
| Horizontal | | | | | |
| 105.660 | -6.673 | 26.987 | 20.314 | -23.186 | 43.500 |
| 239.520 | -6.851 | 32.216 | 25.366 | -20.634 | 46.000 |
| 359.800 | -1.680 | 28.562 | 26.882 | -19.118 | 46.000 |
| 483.960 | -0.688 | 36.376 | 35.689 | -10.311 | 46.000 |
| 683.780 | 2.828 | 30.214 | 33.042 | -12.958 | 46.000 |
| 887.480 | 6.204 | 29.157 | 35.361 | -10.639 | 46.000 |
| Vertical | | | | | |
| 39.700 | -1.056 | 24.322 | 23.266 | -16.734 | 40.000 |
| 175.500 | -8.257 | 32.507 | 24.249 | -19.251 | 43.500 |
| 379.200 | -1.505 | 25.186 | 23.680 | -22.320 | 46.000 |
| 516.940 | -0.876 | 28.104 | 27.228 | -18.772 | 46.000 |
| 697.360 | 1.311 | 27.744 | 29.055 | -16.945 | 46.000 |
| 930.160 | 6.477 | 23.744 | 30.221 | -15.779 | 46.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : TABLET PC
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2441MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-------------------|---------|---------|-------------|---------|--------|
| MHz | Factor | Level | Level | | |
| | dB | dBuV | dBuV/m | dB | dBuV/m |
| Horizontal | | | | | |
| 173.560 | -9.954 | 29.960 | 20.007 | -23.493 | 43.500 |
| 359.800 | -1.680 | 28.182 | 26.502 | -19.498 | 46.000 |
| 480.080 | -0.329 | 30.652 | 30.323 | -15.677 | 46.000 |
| 580.960 | 3.505 | 28.045 | 31.550 | -14.450 | 46.000 |
| 697.360 | 3.171 | 30.204 | 33.375 | -12.625 | 46.000 |
| 829.280 | 6.344 | 23.898 | 30.242 | -15.758 | 46.000 |
| Vertical | | | | | |
| 103.720 | -0.151 | 25.969 | 25.817 | -17.683 | 43.500 |
| 344.280 | -3.171 | 27.989 | 24.819 | -21.181 | 46.000 |
| 515.000 | -1.090 | 25.412 | 24.322 | -21.678 | 46.000 |
| 697.360 | 1.311 | 27.357 | 28.668 | -17.332 | 46.000 |
| 815.700 | 3.221 | 23.735 | 26.956 | -19.044 | 46.000 |
| 961.200 | 7.260 | 24.330 | 31.590 | -22.410 | 54.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : TABLET PC
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - BLE (GFSK) (2440MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-------------------|---------|---------|-------------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| Horizontal | | | | | |
| 173.560 | -9.954 | 31.151 | 21.198 | -22.302 | 43.500 |
| 359.800 | -1.680 | 28.266 | 26.586 | -19.414 | 46.000 |
| 480.080 | -0.329 | 30.824 | 30.495 | -15.505 | 46.000 |
| 580.960 | 3.505 | 28.651 | 32.156 | -13.844 | 46.000 |
| 697.360 | 3.171 | 30.733 | 33.904 | -12.096 | 46.000 |
| 912.700 | 6.132 | 27.470 | 33.602 | -12.398 | 46.000 |
| Vertical | | | | | |
| 105.660 | -0.253 | 25.590 | 25.337 | -18.163 | 43.500 |
| 344.280 | -3.171 | 26.908 | 23.738 | -22.262 | 46.000 |
| 524.700 | -0.379 | 23.876 | 23.497 | -22.503 | 46.000 |
| 683.780 | 1.968 | 22.722 | 24.690 | -21.310 | 46.000 |
| 771.080 | 3.115 | 24.426 | 27.541 | -18.459 | 46.000 |
| 939.860 | 6.450 | 23.530 | 29.980 | -16.020 | 46.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

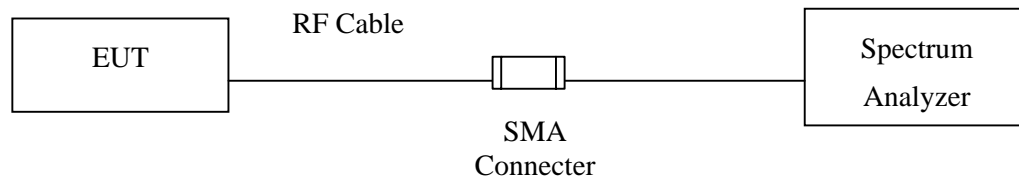
5. RF Antenna Conducted Test

5.1. Test Equipment

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|-------------------|--------------|----------------------|------------|
| | Spectrum Analyzer | R&S | FSP40 / 100170 | Jun, 2013 |
| | Spectrum Analyzer | Agilent | E4407B / US39440758 | Jun, 2013 |
| X | Spectrum Analyzer | Agilent | N9010A / MY48030495 | Apr., 2013 |

Note: 1. All equipments are calibrated every one year.
 2. The test instruments Marked "X" are used to measure the final test results.

5.2. Test Setup



5.3. Limits

According to FCC Section 15.247(d). In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

5.4. Test Procedure

The EUT was setup to ANSI C63.10: 2009; tested to FHSS test procedure of FCC Public Notice DA 00-705 and ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements.

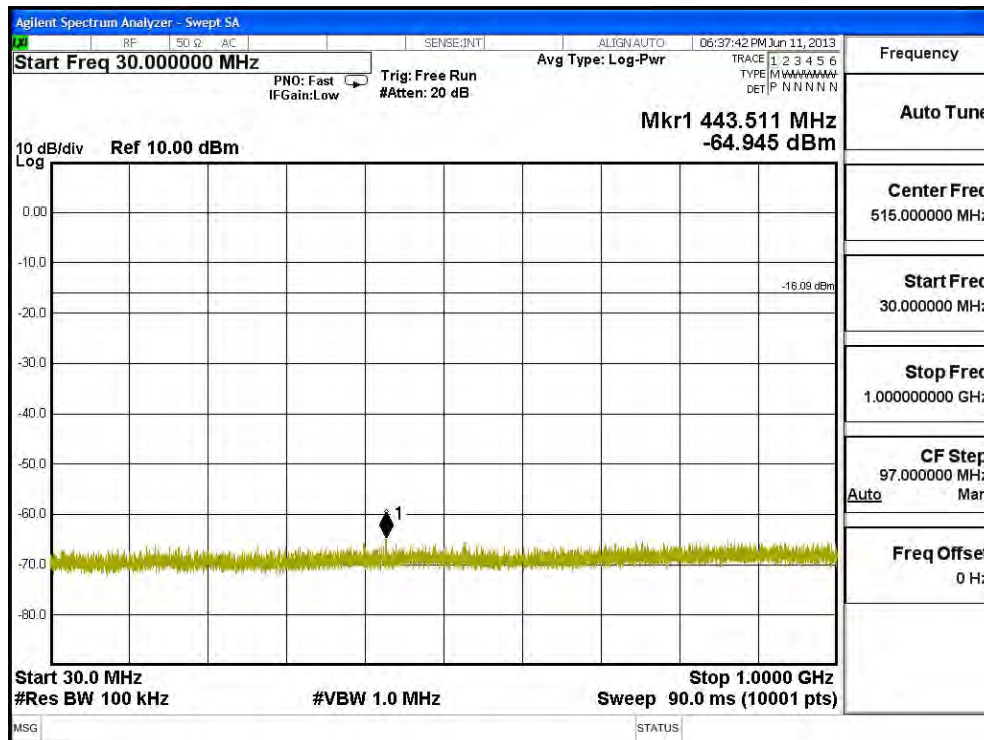
5.5. Uncertainty

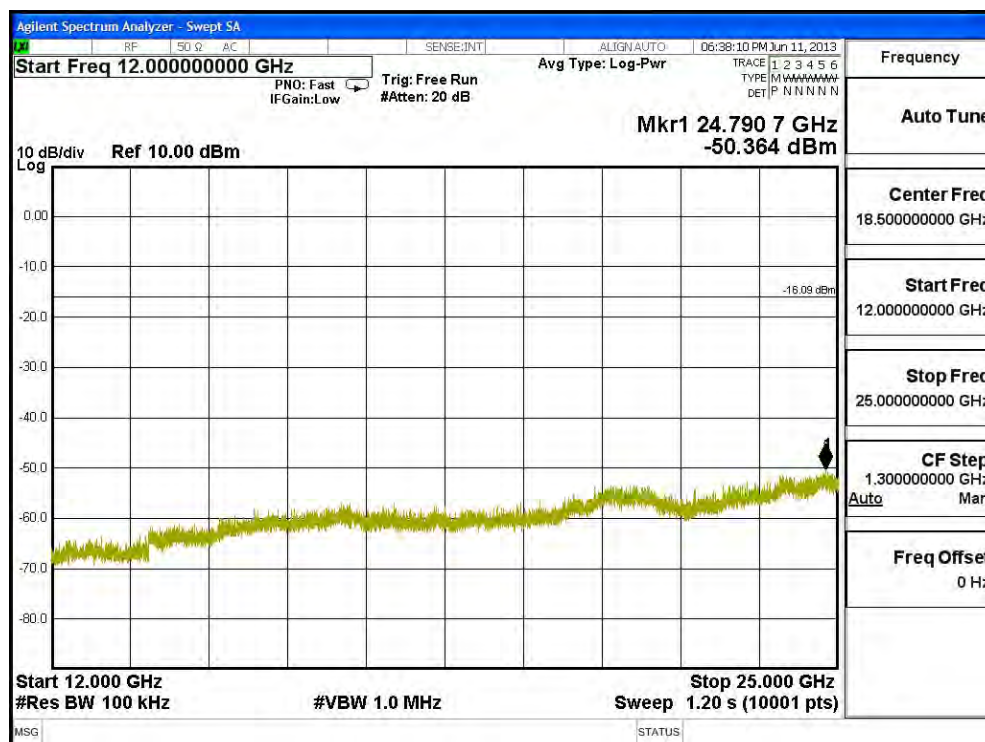
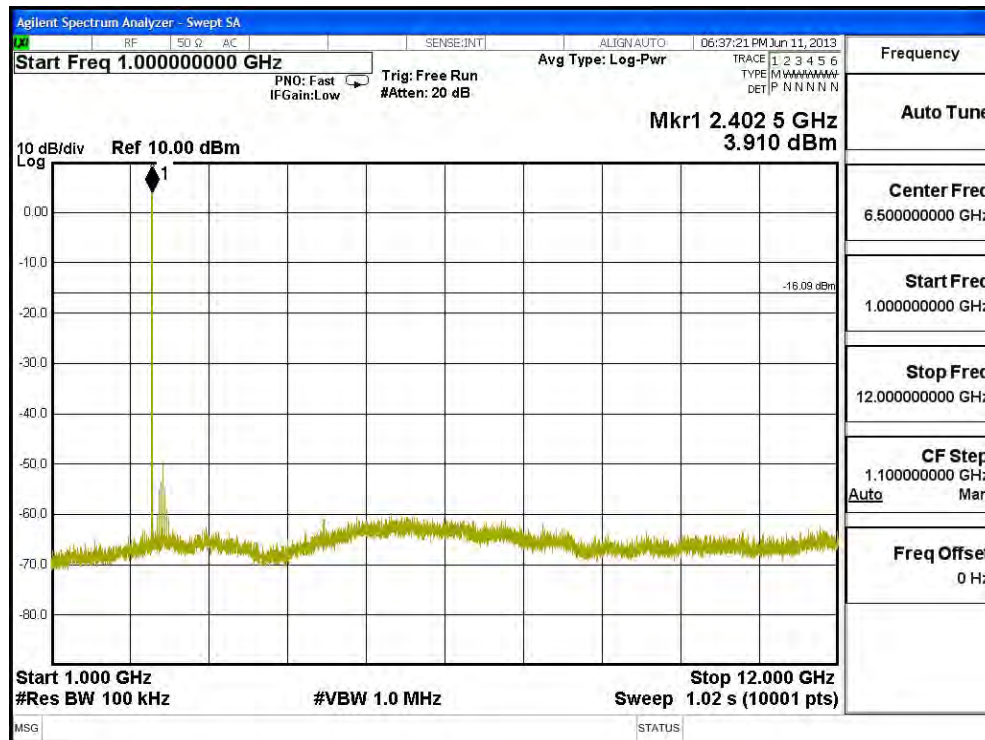
± 150Hz

5.6. Test Result of RF Antenna Conducted Test

Product : TABLET PC
 Test Item : RF Antenna Conducted Test
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 1Mbps (GFSK)

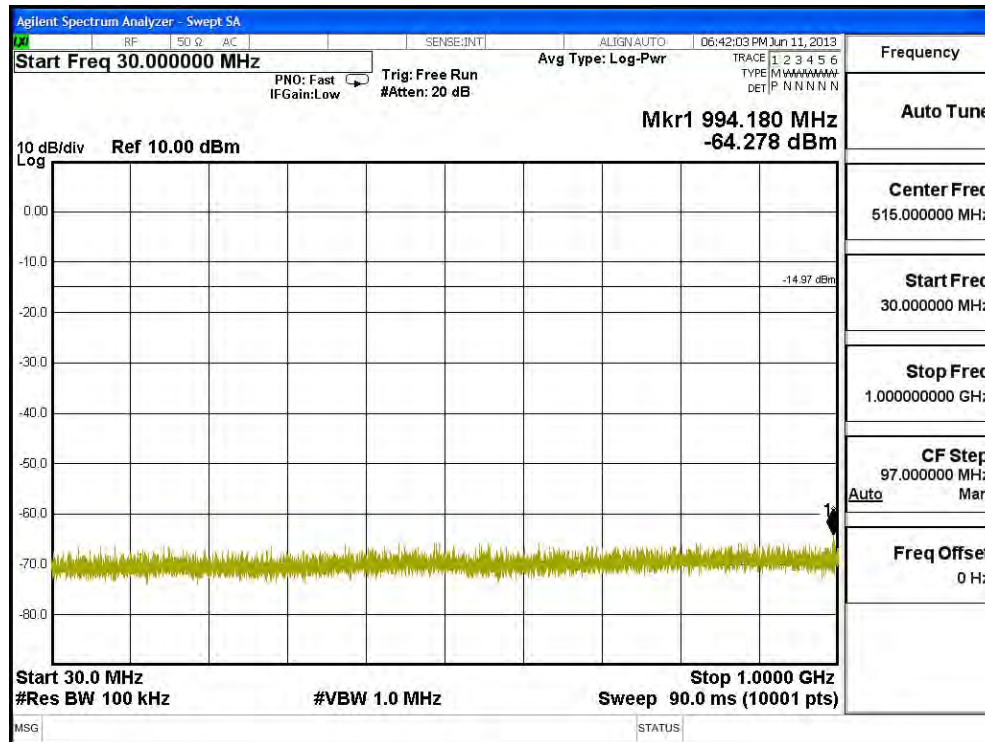
Figure Channel 00:

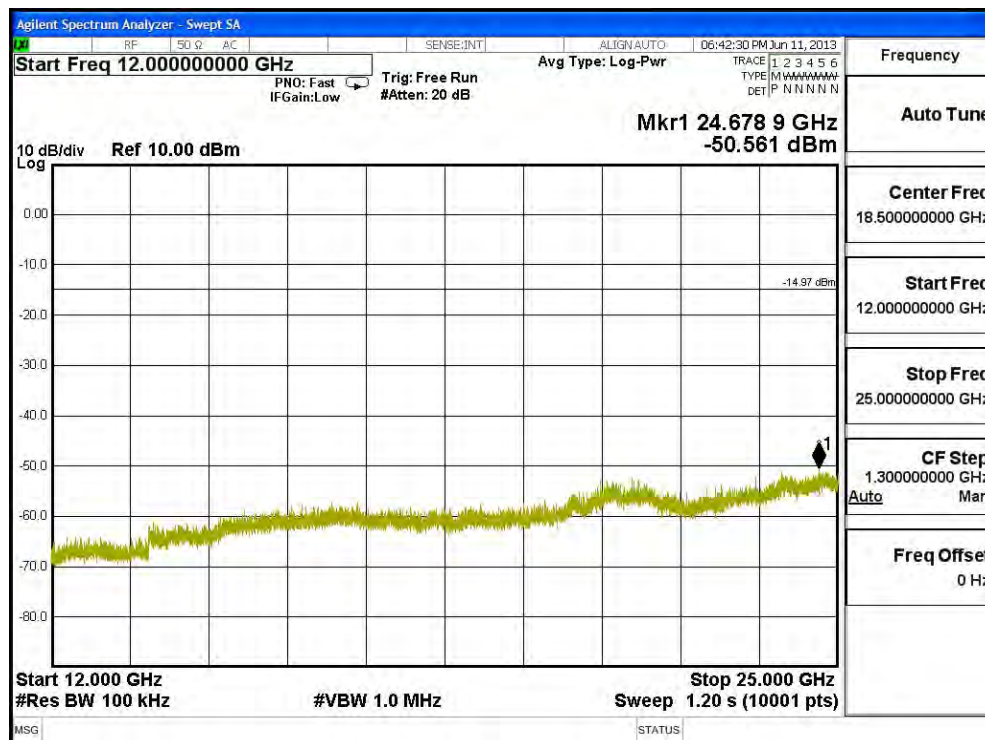
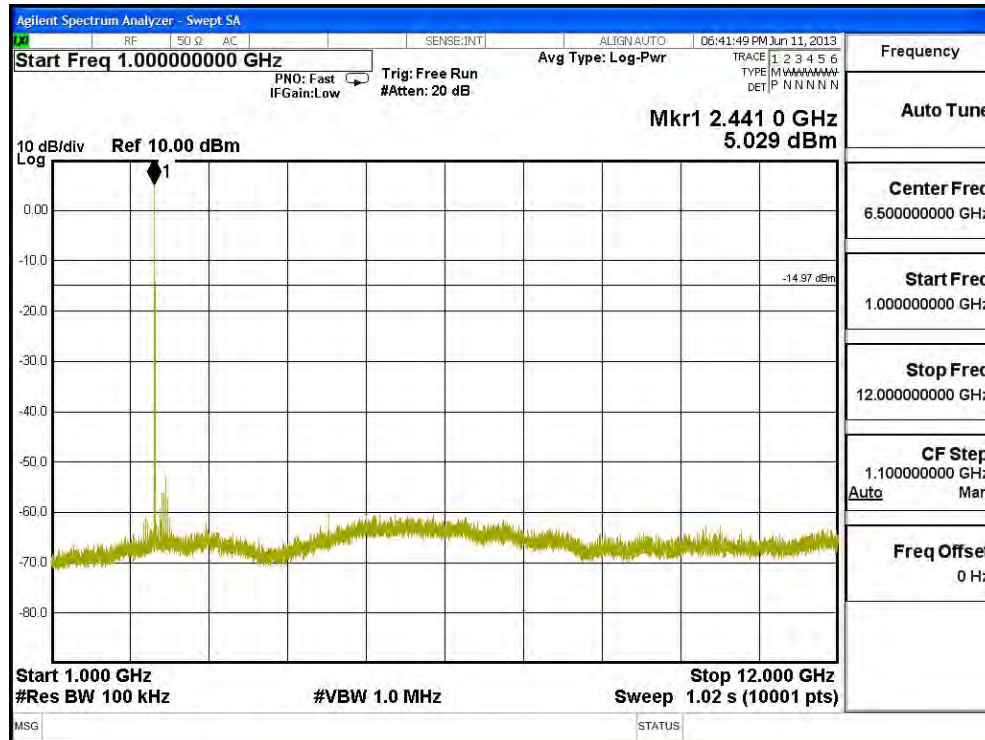




Product : TABLET PC
 Test Item : RF Antenna Conducted Test
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 1Mbps (GFSK)

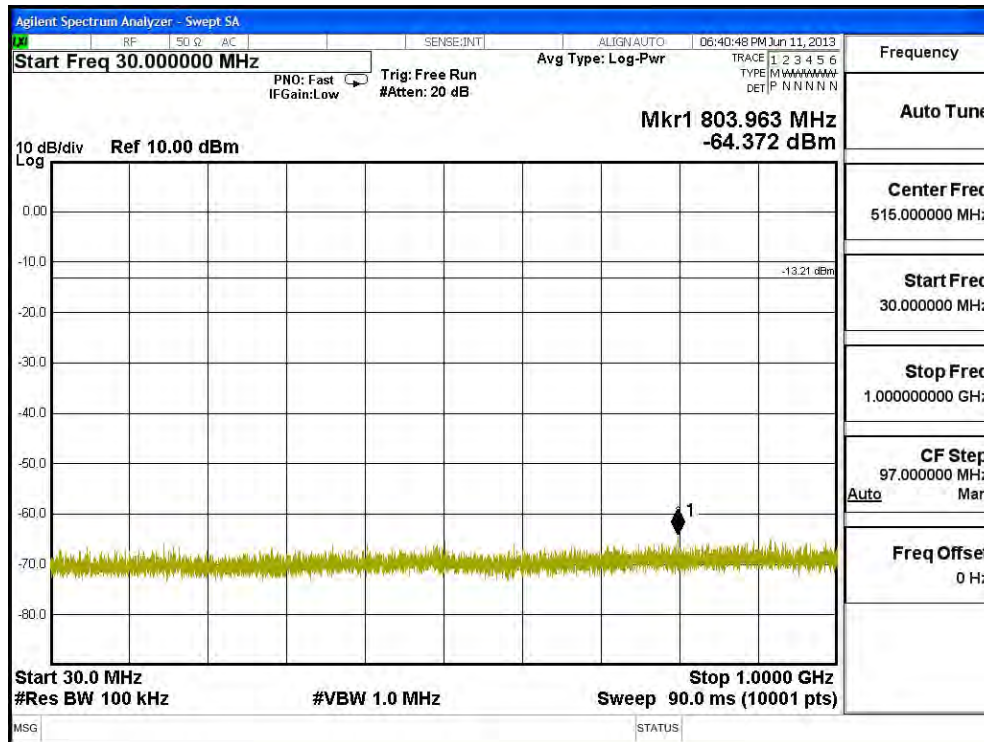
Figure Channel 39:

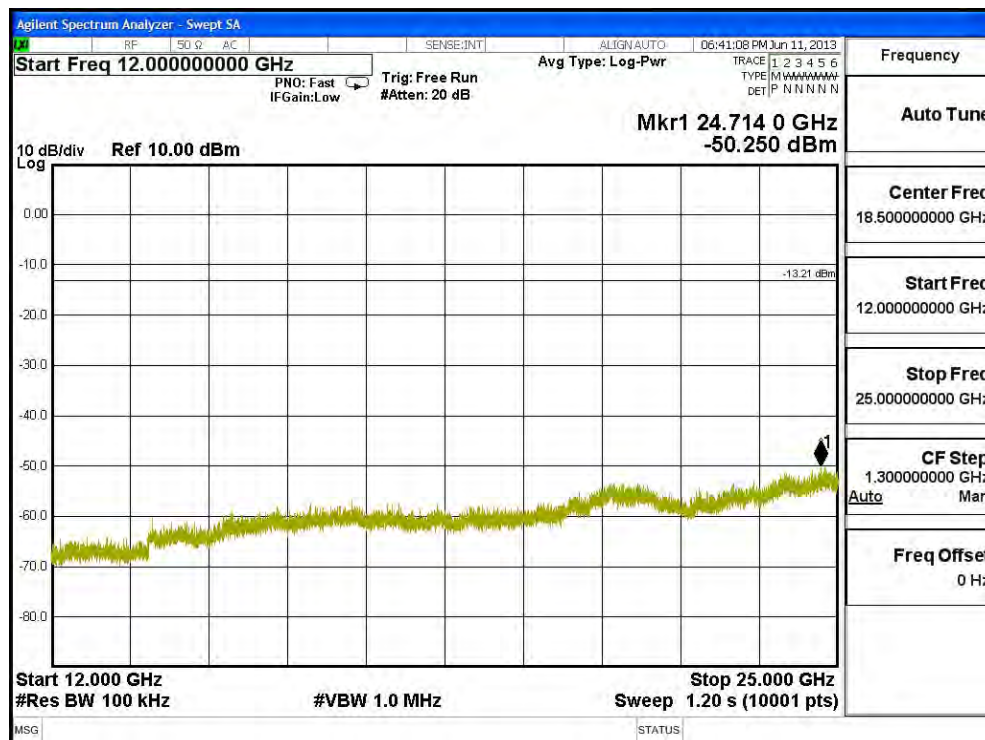
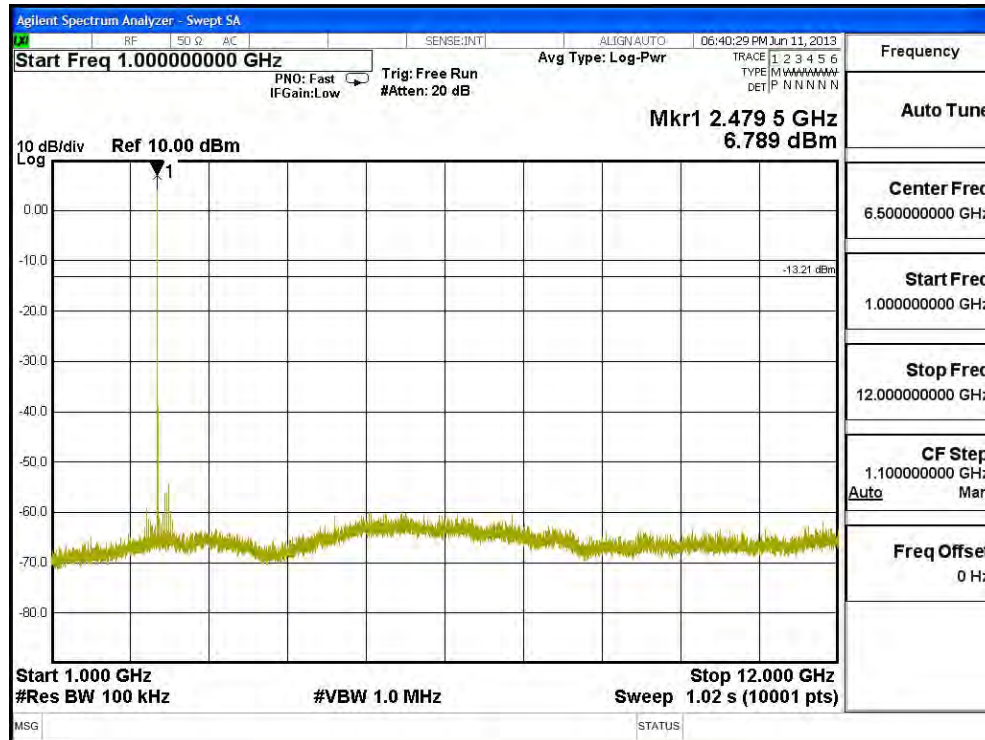




Product : TABLET PC
 Test Item : RF Antenna Conducted Test
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 1Mbps (GFSK)

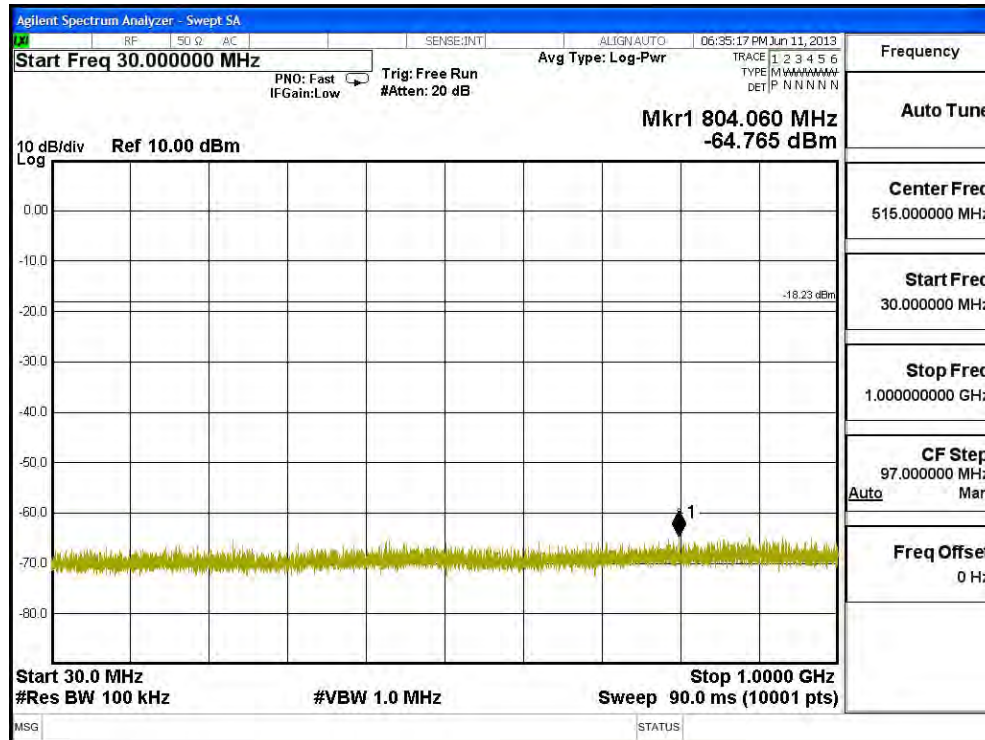
Figure Channel 78:

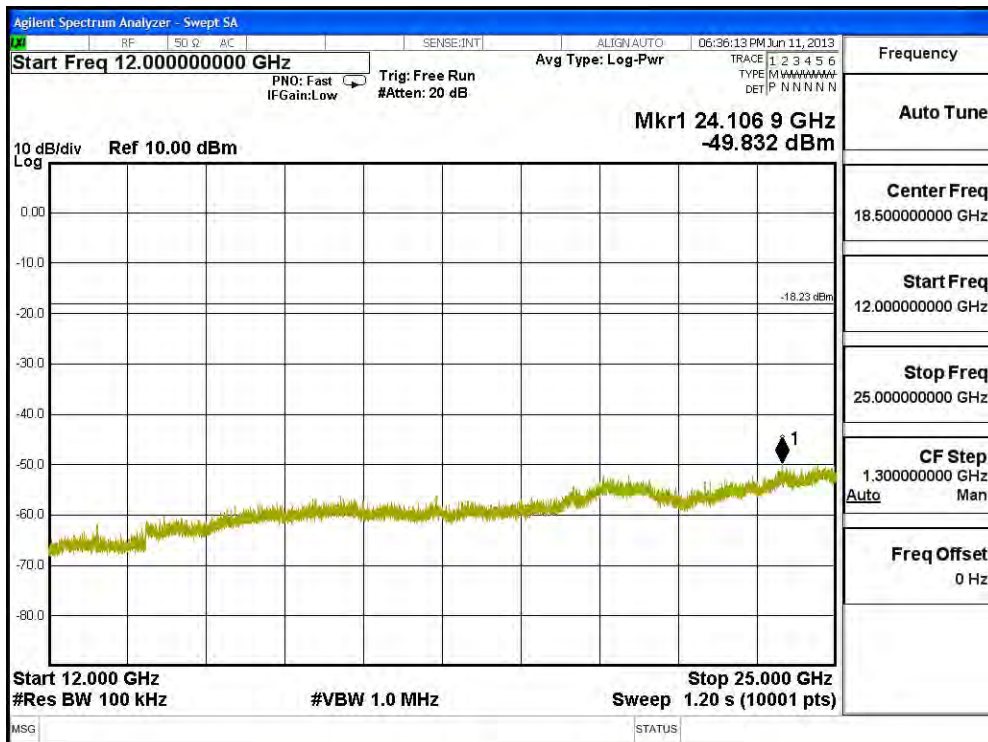
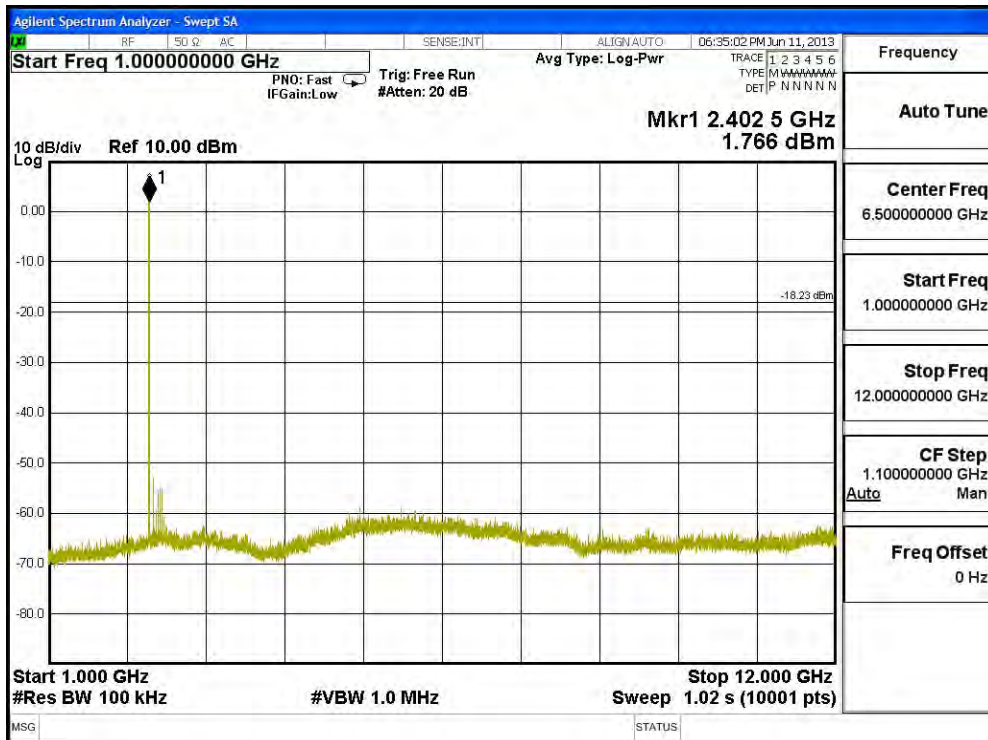




Product : TABLET PC
 Test Item : RF Antenna Conducted Test
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 3Mbps (8DPSK)

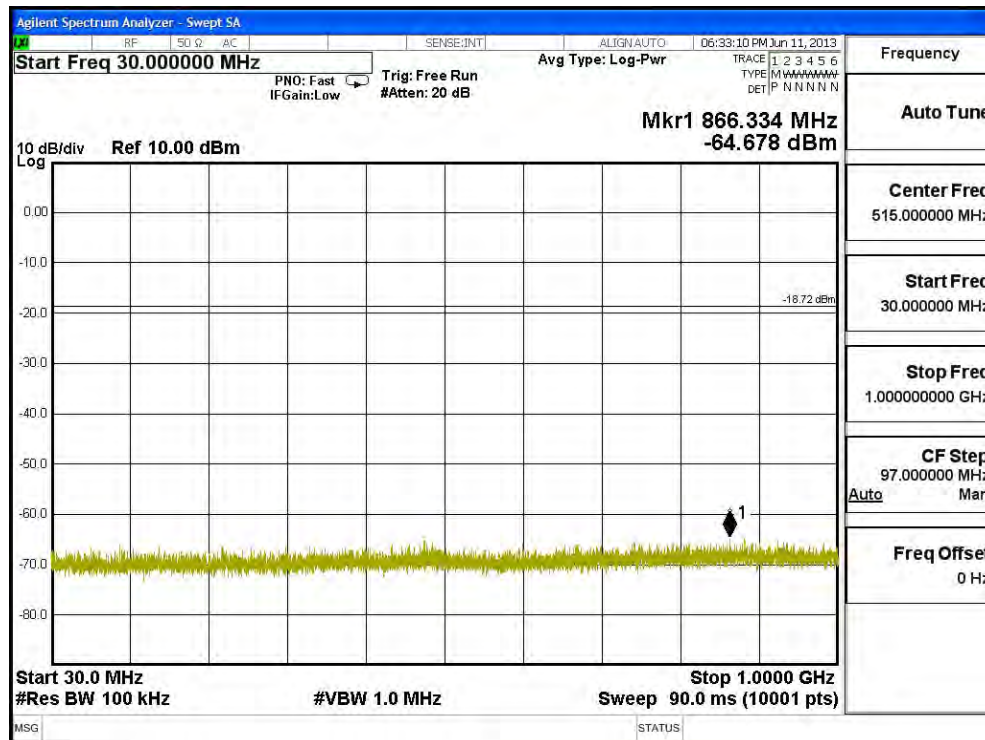
Figure Channel 00:

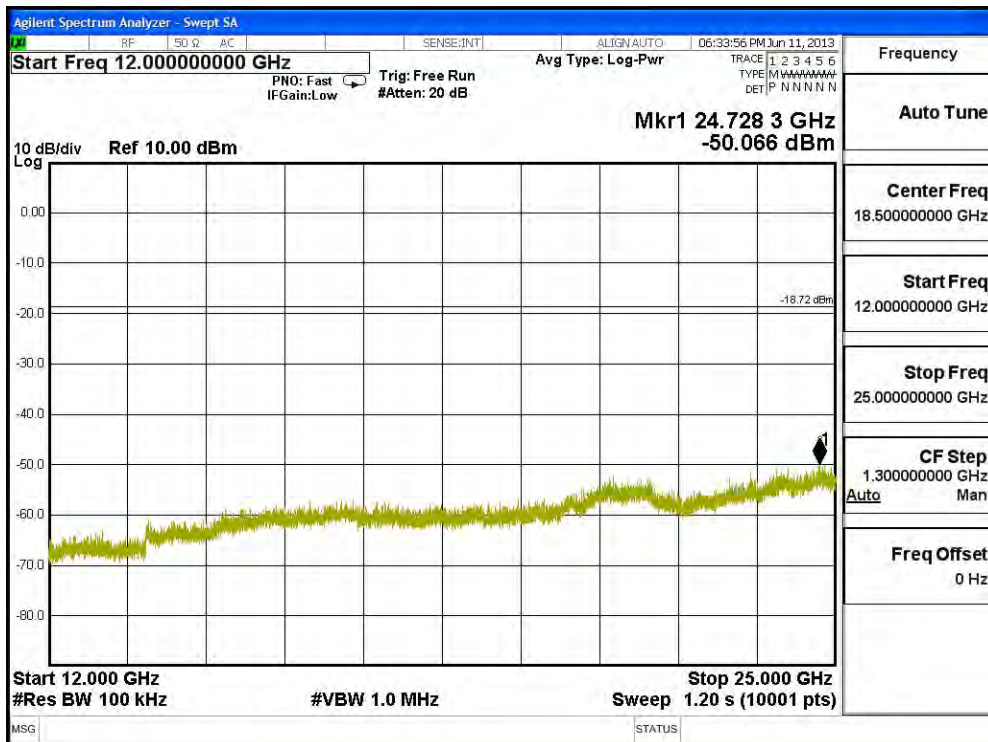
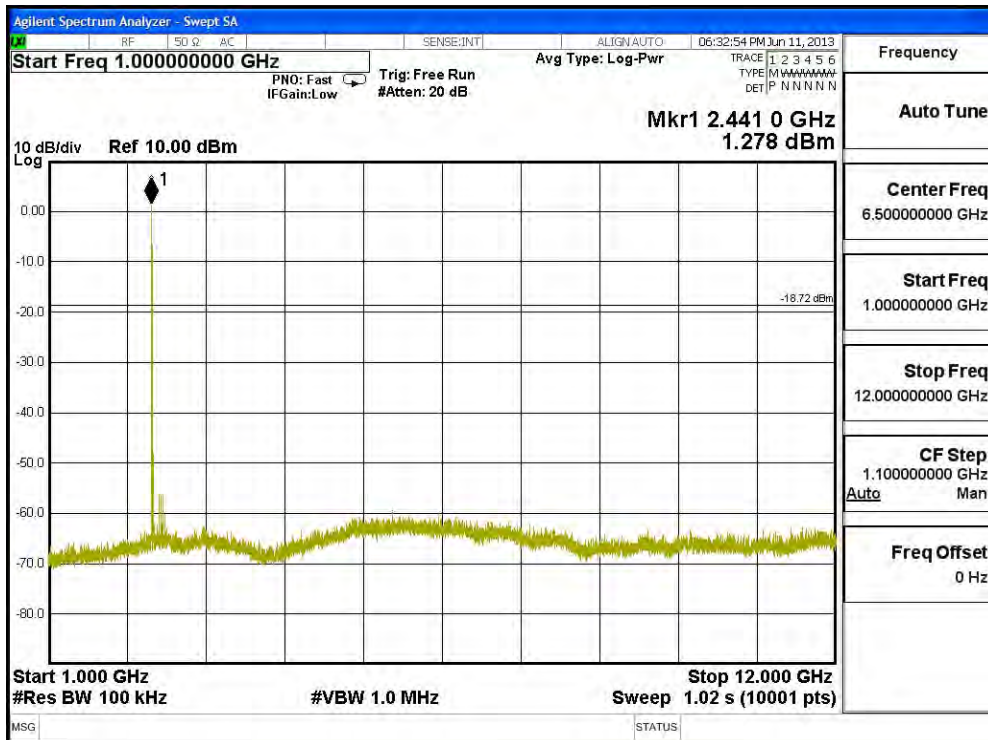




Product : TABLET PC
 Test Item : RF Antenna Conducted Test
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 3Mbps (8DPSK)

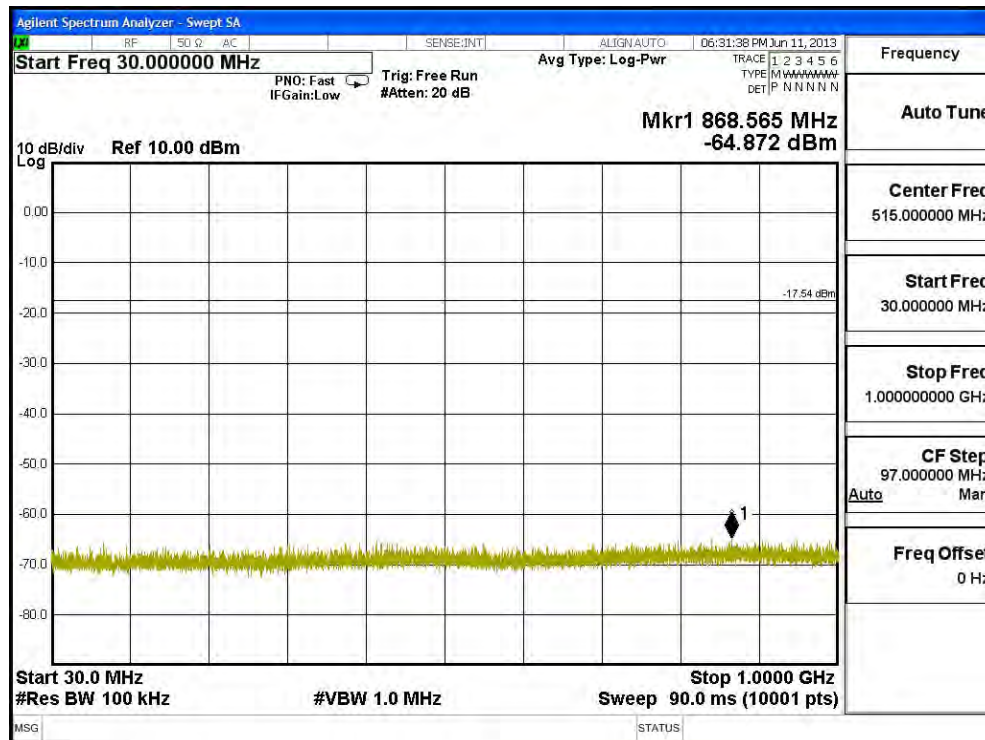
Figure Channel 39:

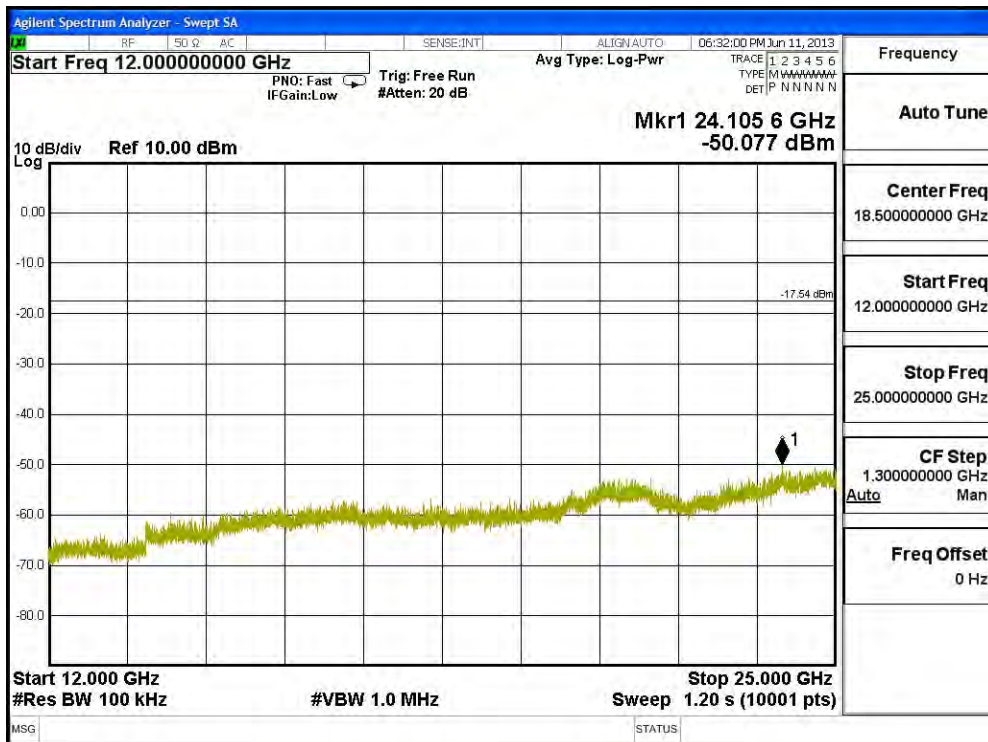
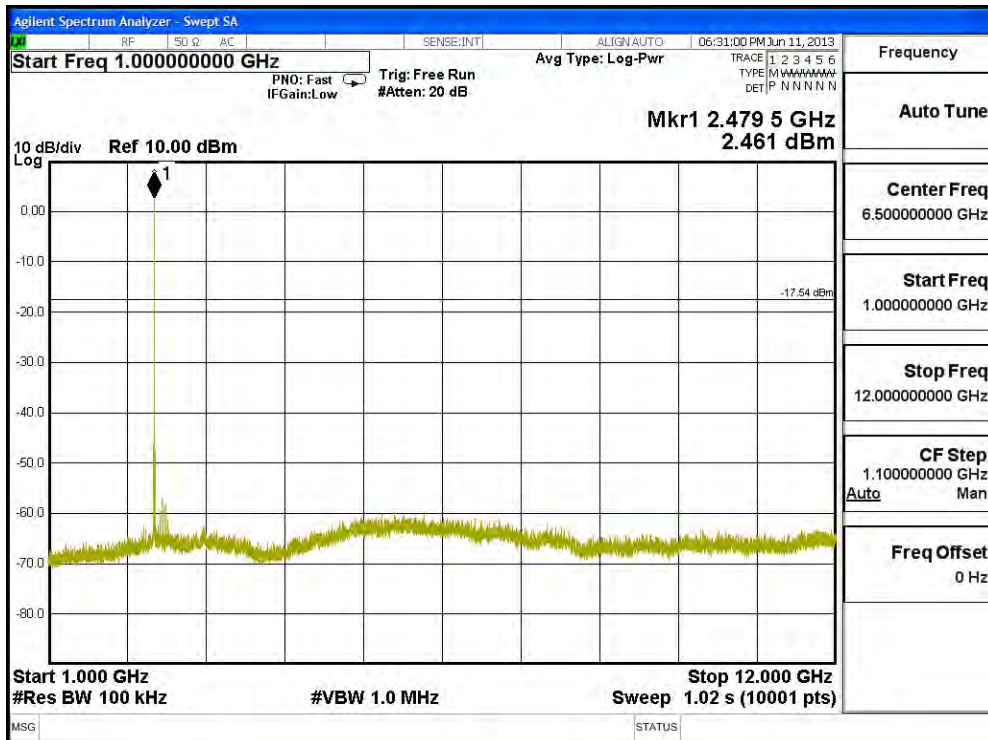




Product : TABLET PC
 Test Item : RF Antenna Conducted Test
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 3Mbps (8DPSK)

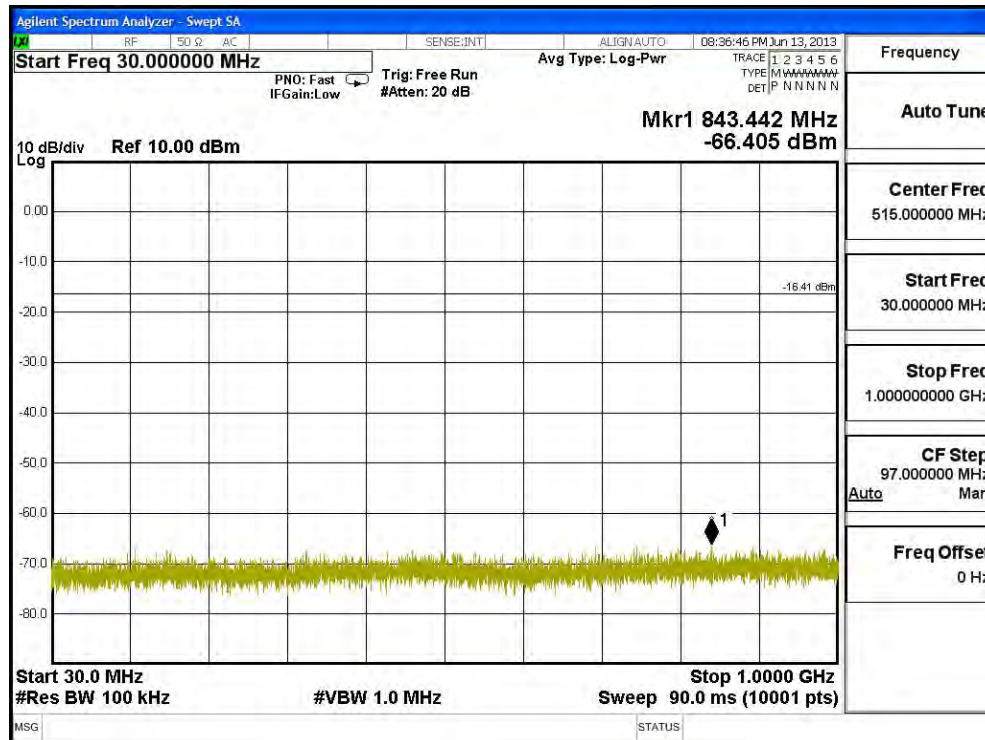
Figure Channel 78:

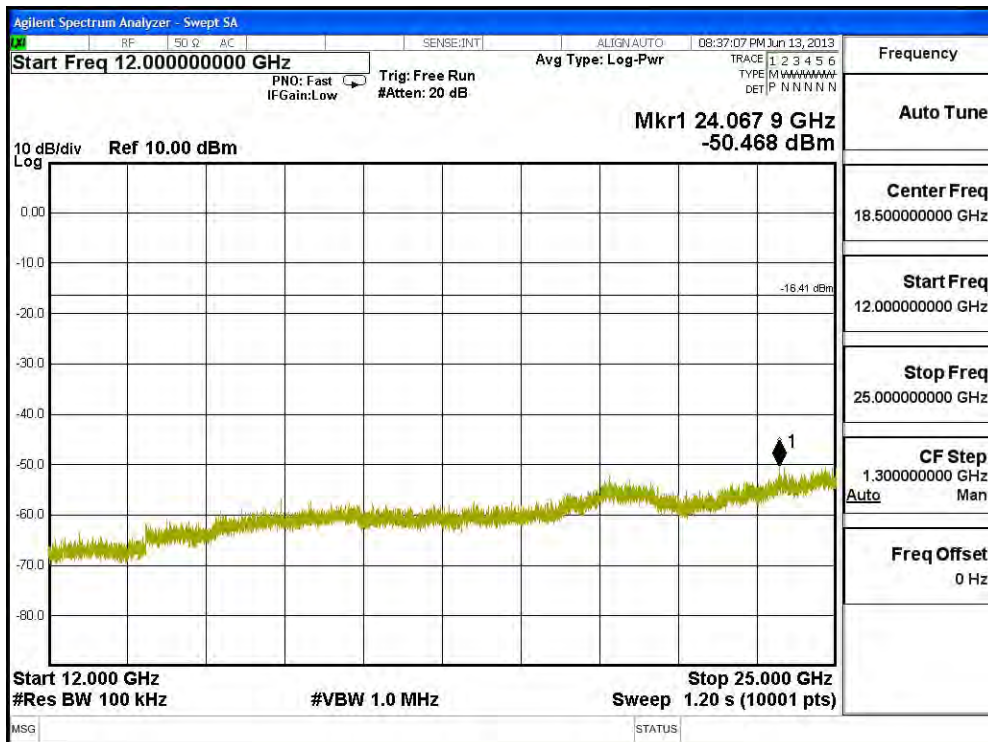
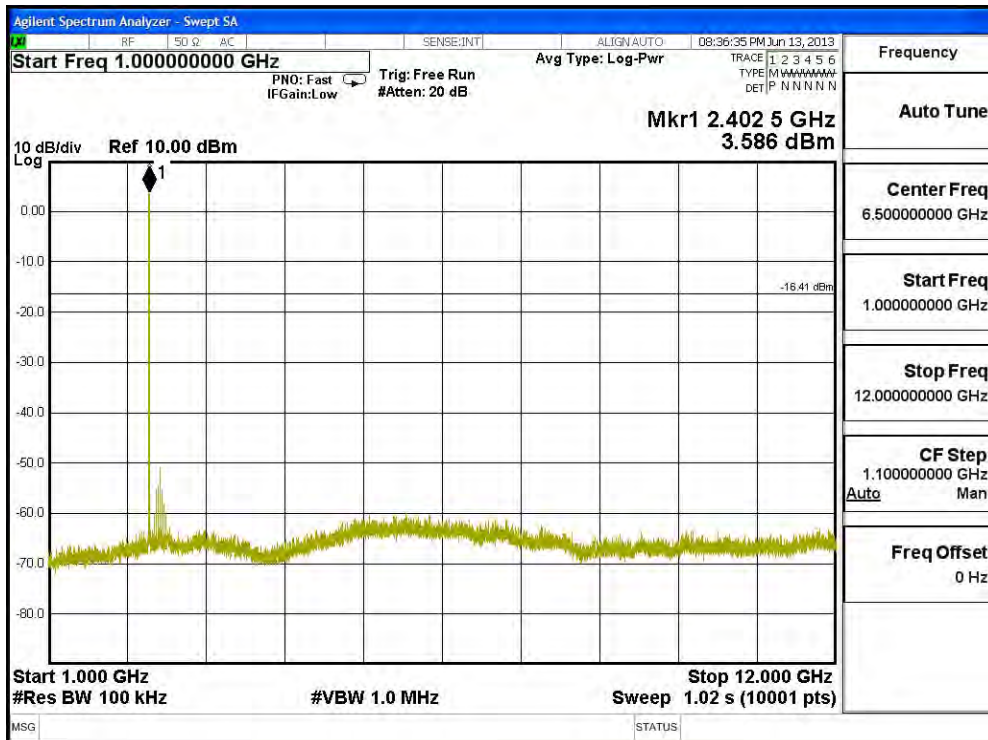




Product : TABLET PC
 Test Item : RF Antenna Conducted Test
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - BLE (GFSK)

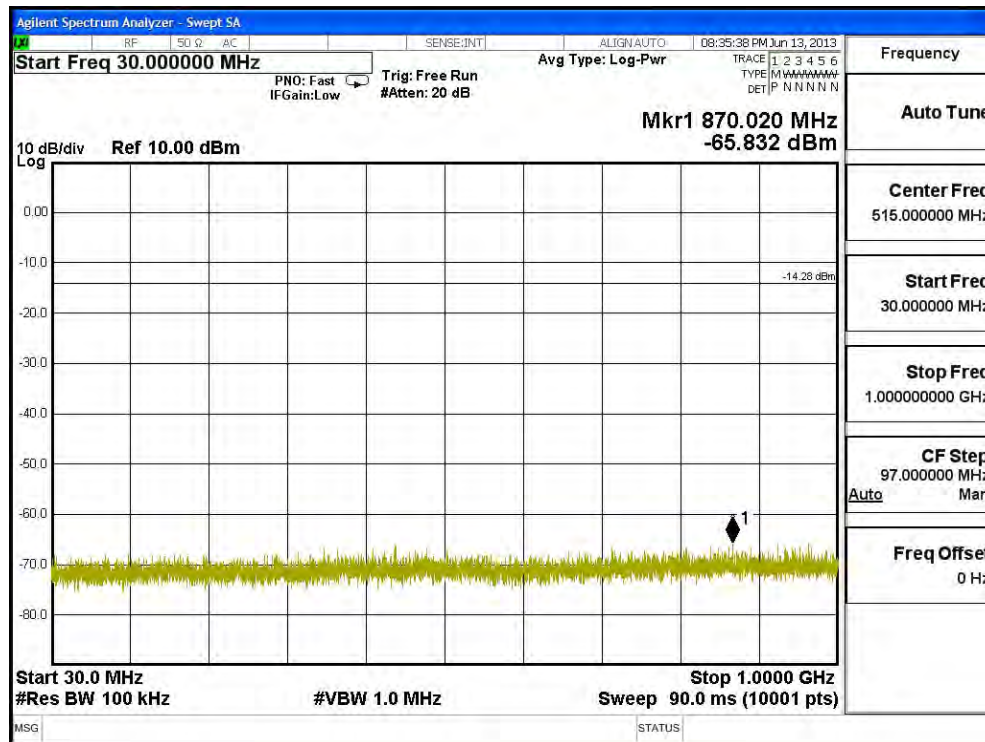
Figure Channel 00:

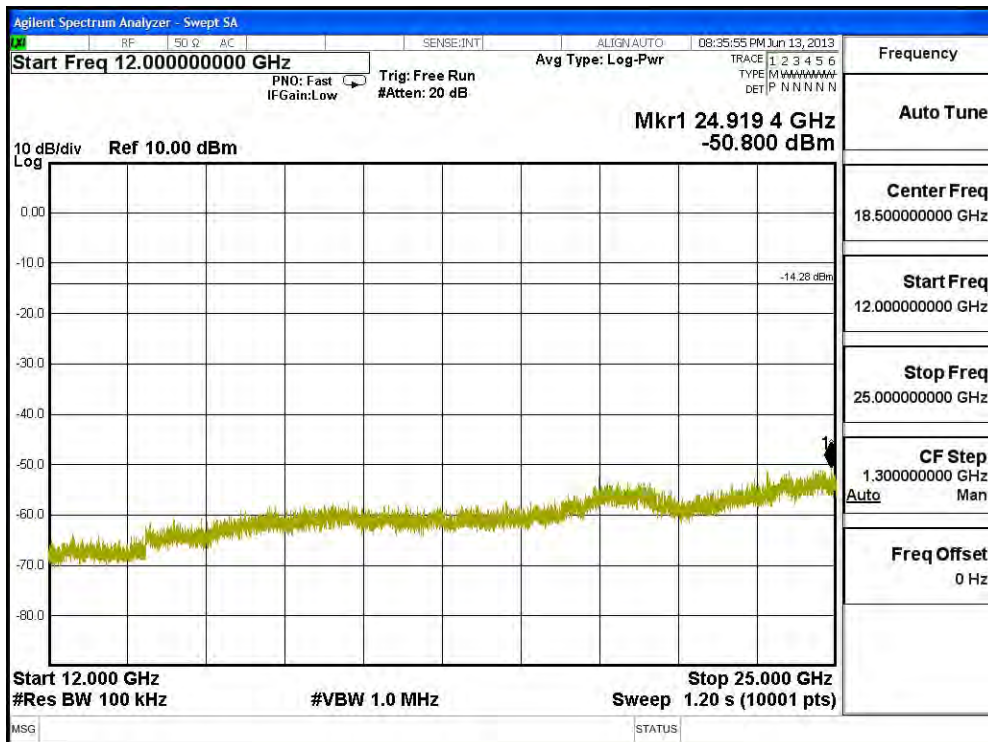
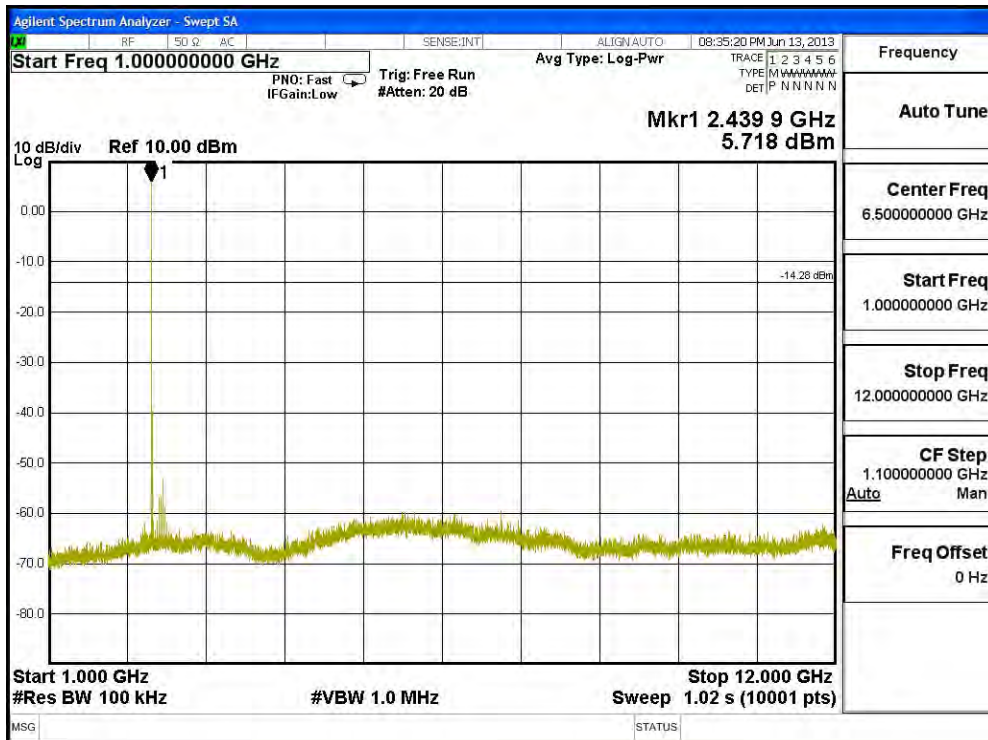




Product : TABLET PC
 Test Item : RF Antenna Conducted Test
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - BLE (GFSK)

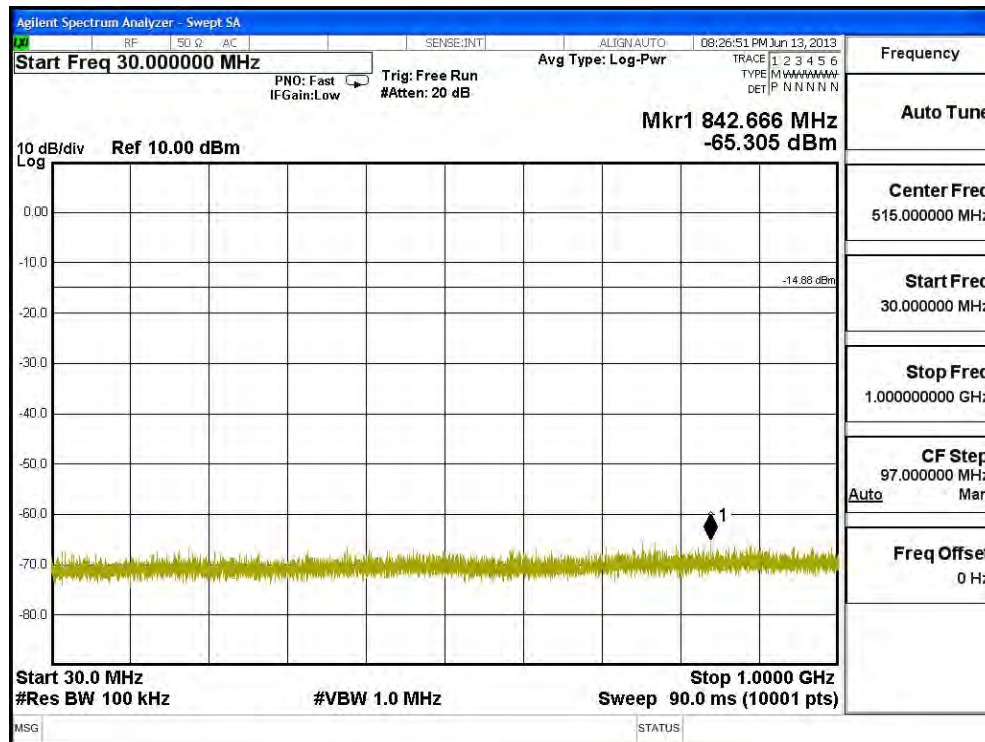
Figure Channel 19:

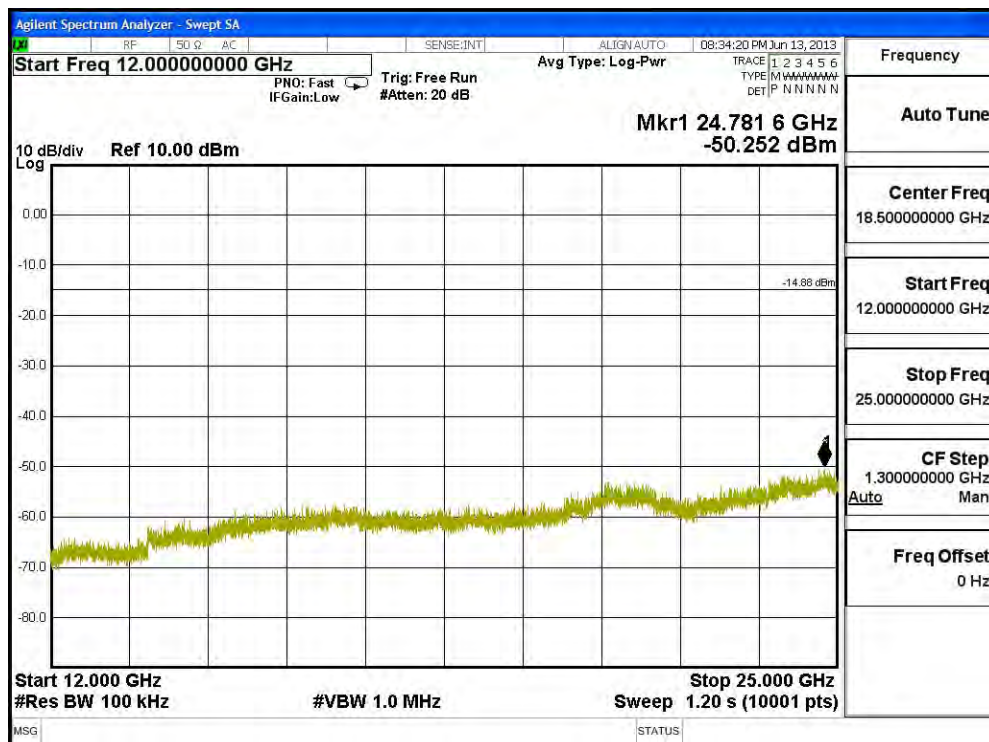
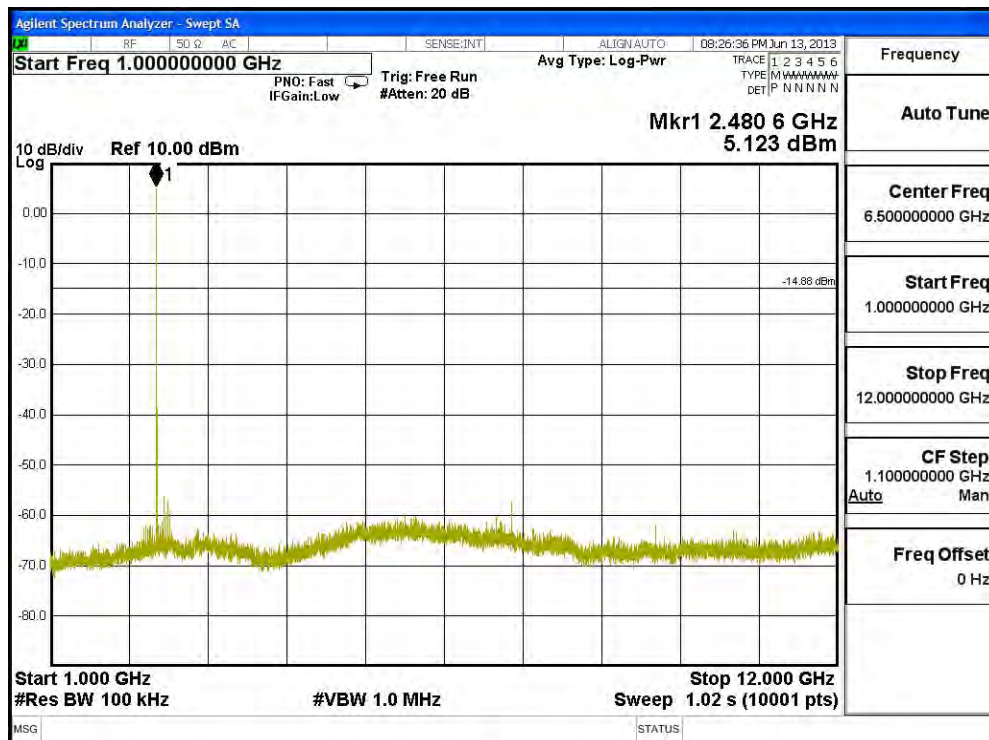




Product : TABLET PC
 Test Item : RF Antenna Conducted Test
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - BLE (GFSK)

Figure Channel 39:





6. Band Edge

6.1. Test Equipment

RF Conducted Measurement

The following test equipments are used during the band edge tests:

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|-------------------|--------------|----------------------|------------|
| | Spectrum Analyzer | R&S | FSP40 / 100170 | Jun, 2013 |
| | Spectrum Analyzer | Agilent | E4407B / US39440758 | Jun, 2013 |
| X | Spectrum Analyzer | Agilent | N9010A / MY48030495 | Apr., 2013 |

RF Radiated Measurement:

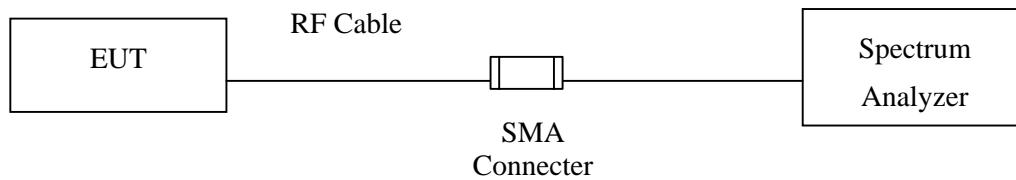
The following test equipments are used during the band edge tests:

| Test Site | | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|-----------|---|-------------------|-----------------|-----------------------|------------|
| Site # 3 | | Bilog Antenna | Schaffner Chase | CBL6112B/2673 | Sep., 2012 |
| | X | Horn Antenna | Schwarzbeck | BBHA9120D/D305 | Sep., 2012 |
| | | Horn Antenna | Schwarzbeck | BBHA9170/208 | Jul., 2012 |
| | X | Pre-Amplifier | Agilent | 8447D/2944A09549 | Sep., 2012 |
| | X | Spectrum Analyzer | Agilent | E4407B / US39440758 | May, 2013 |
| | | Test Receiver | R & S | ESCS 30/ 825442/018 | Sep., 2012 |
| | X | Coaxial Cable | QuietTek | QTK-CABLE/ CAB5 | Feb., 2013 |
| | X | Controller | QuietTek | QTK-CONTROLLER/ CTRL3 | N/A |
| | X | Coaxial Switch | Anritsu | MP59B/6200265729 | N/A |

- Note:
1. All equipments are calibrated every one year.
 2. The test instruments marked by "X" are used to measure the final test results.

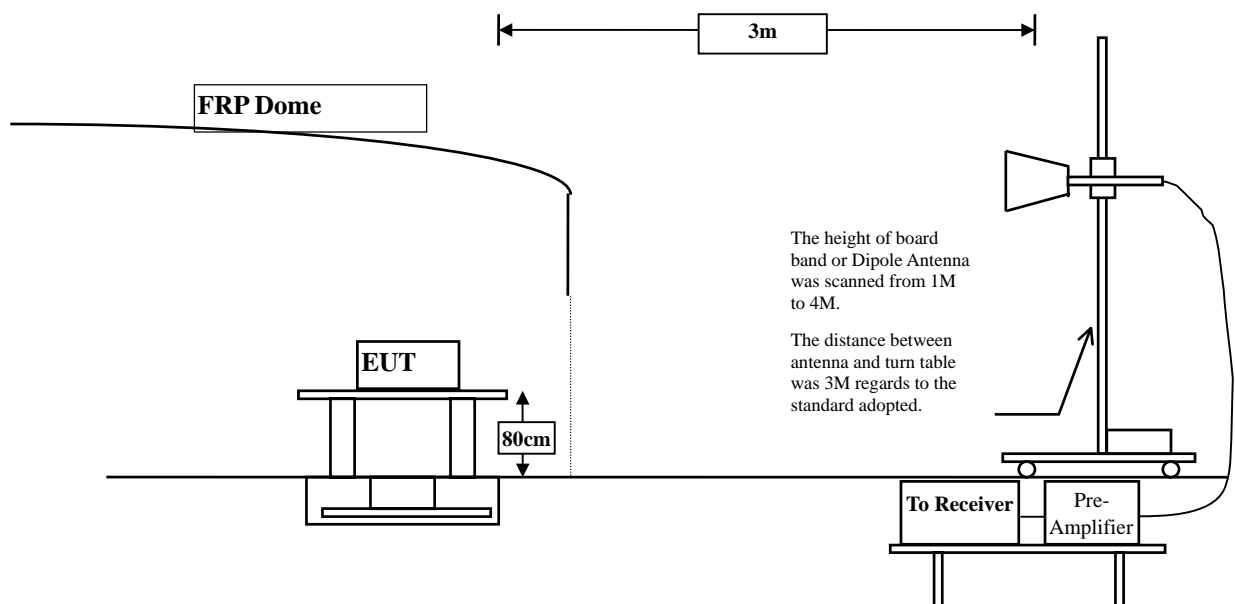
6.2. Test Setup

RF Conducted Measurement



RF Radiated Measurement:

Above 1GHz



6.3. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2009 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz. The EUT was setup to ANSI C63.10: 2009; tested to FHSS test procedure of FCC Public Notice DA 00-705 and ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements.

6.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

6.6. Test Result of Band Edge

Product : TABLET PC
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 1Mbps (GFSK) (2402MHz)

Fundamental Filed Strength

| Antenna Pole | Frequency [MHz] | Correction Factor [dB/m] | Reading Level [dBuV] | Emission Level [dBuV/m] | Detector |
|--------------|-----------------|--------------------------|----------------------|-------------------------|----------|
| Horizontal | 2402 | 31.573 | 64.35 | 95.924 | Peak |
| Horizontal | 2402 | 31.573 | 51.86 | 83.434 | Average |
| Vertical | 2402 | 30.917 | 61.38 | 92.297 | Peak |
| Vertical | 2402 | 30.917 | 49.44 | 80.357 | Average |

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

Band Edge Test Data

| Antenna Pole | Test Frequency (MHz) | Fundamental (dBuV/m) | Δ (dB) | Band Edge Field Strength (dBuV/m) | Limit (dBuV/m) | Detector |
|--------------|----------------------|----------------------|---------------|-----------------------------------|----------------|----------|
| Horizontal | 2376.2 | 95.924 | 60.41 | 35.514 | 74.000 | Peak |
| Horizontal | 2376.2 | 83.434 | 56.484 | 26.95 | 54.000 | Average |
| Vertical | 2376.2 | 92.297 | 60.41 | 31.887 | 74.000 | Peak |
| Vertical | 2376.2 | 80.357 | 56.484 | 23.873 | 54.000 | Average |

Note:

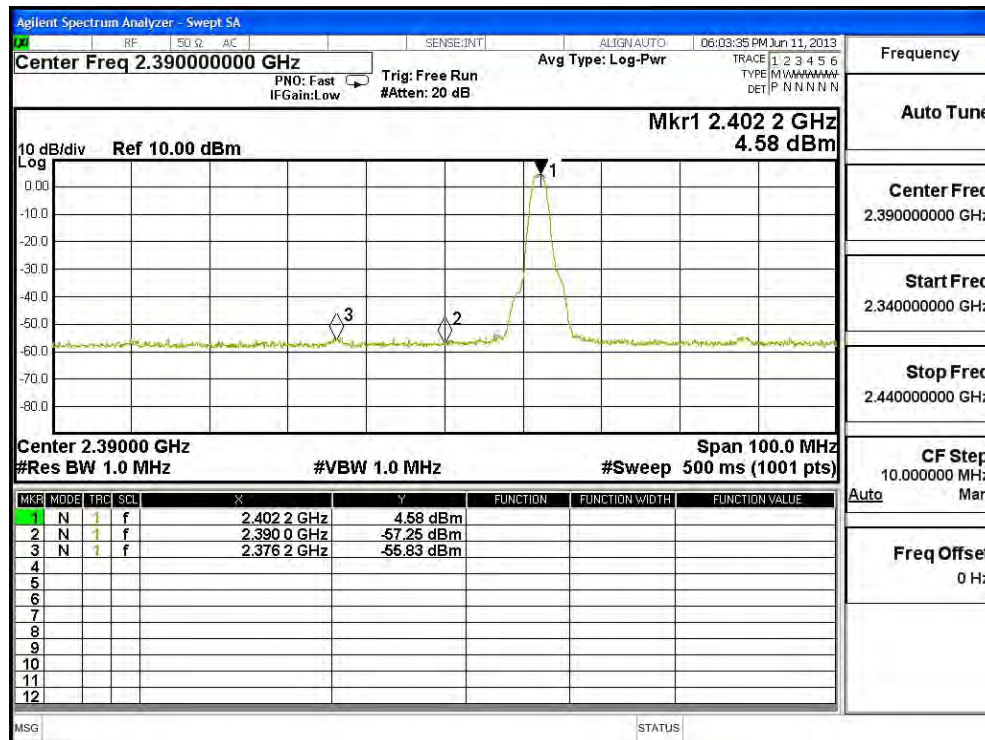
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = $F - \Delta$

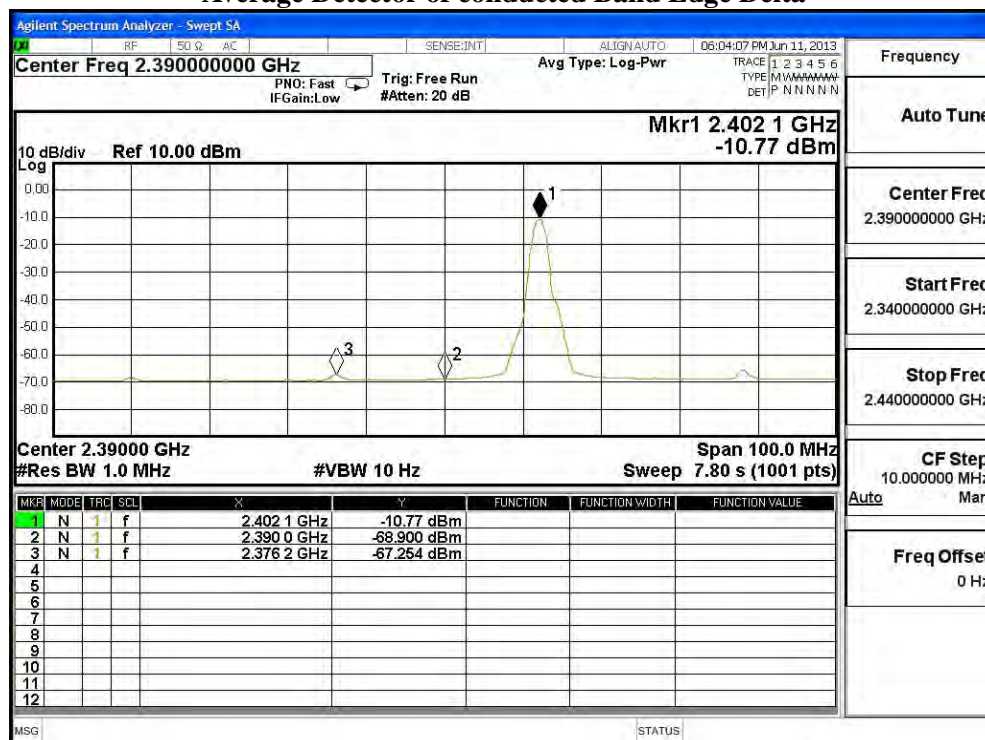
F = Fundamental field Strength (Peak or Average)

Δ = Conducted Band Edge Delta (Peak or Average)

Peak Detector of conducted Band Edge Delta



Average Detector of conducted Band Edge Delta



Product : TABLET PC
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit - 1Mbps (GFSK) (2480MHz)

Fundamental Filed Strength

| Antenna Pole | Frequency [MHz] | Correction Factor [dB/m] | Reading Level [dBuV] | Emission Level [dB(uV/m)] | Detector |
|--------------|-----------------|--------------------------|----------------------|---------------------------|----------|
| Horizontal | 2480 | 32.155 | 63.74 | 95.896 | Peak |
| Horizontal | 2480 | 32.155 | 51.63 | 83.786 | Average |
| Vertical | 2480 | 31.412 | 59.98 | 91.392 | Peak |
| Vertical | 2480 | 31.412 | 48.79 | 80.202 | Average |

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

Band Edge Test Data

| Antenna Pole | Test Frequency (MHz) | Fundamental (dBuV/m) | Δ (dB) | Band Edge Field Strength (dBuV/m) | Limit (dBuV/m) | Detector |
|--------------|----------------------|----------------------|---------------|-----------------------------------|----------------|----------|
| Horizontal | 2483.5 | 95.896 | 45.108 | 50.788 | 74.000 | Peak |
| Horizontal | 2483.5 | 83.786 | 45.123 | 38.663 | 54.000 | Average |
| Vertical | 2483.5 | 91.392 | 45.108 | 46.284 | 74.000 | Peak |
| Vertical | 2483.5 | 80.202 | 45.123 | 35.079 | 54.000 | Average |

Note:

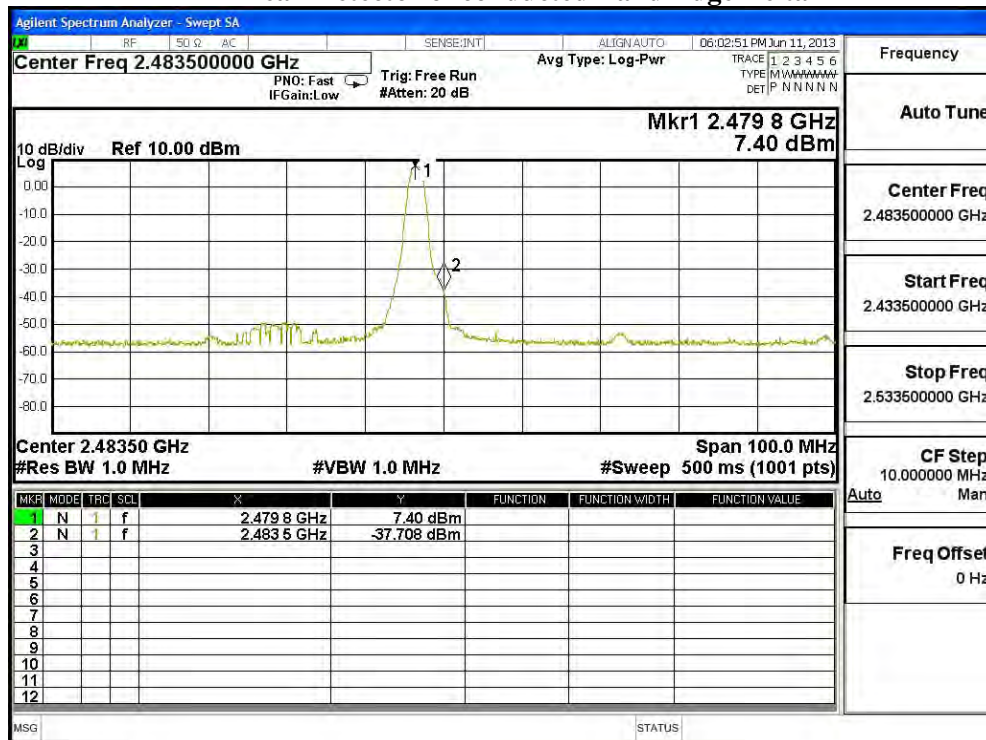
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F - Δ

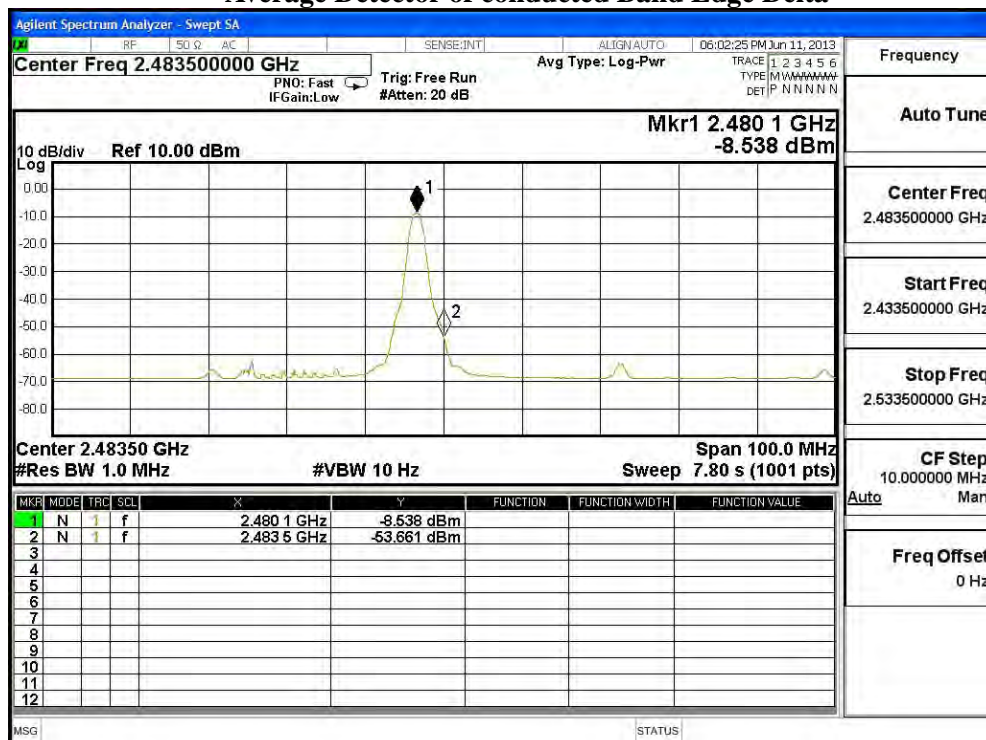
F = Fundamental field Strength (Peak or Average)

Δ = Conducted Band Edge Delta (Peak or Average)

Peak Detector of conducted Band Edge Delta



Average Detector of conducted Band Edge Delta



Product : TABLET PC
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2402MHz)

Fundamental Filed Strength

| Antenna Pole | Frequency [MHz] | Correction Factor [dB/m] | Reading Level [dBuV] | Emission Level [dBuV/m] | Detector |
|--------------|-----------------|--------------------------|----------------------|-------------------------|----------|
| Horizontal | 2402 | 31.573 | 63.12 | 94.694 | Peak |
| Horizontal | 2402 | 31.573 | 48.65 | 80.224 | Average |
| Vertical | 2402 | 30.917 | 60.14 | 91.057 | Peak |
| Vertical | 2402 | 30.917 | 46.58 | 77.497 | Average |

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

Band Edge Test Data

| Antenna Pole | Test Frequency (MHz) | Fundamental (dBuV/m) | Δ (dB) | Band Edge Field Strength (dBuV/m) | Limit (dBuV/m) | Detector |
|--------------|----------------------|----------------------|---------------|-----------------------------------|----------------|----------|
| Horizontal | 2376.5 | 94.694 | 58.389 | 36.305 | 74.000 | Peak |
| Horizontal | 2376.5 | 80.224 | 53.4 | 26.824 | 54.000 | Average |
| Vertical | 2376.5 | 91.057 | 58.389 | 32.668 | 74.000 | Peak |
| Vertical | 2376.5 | 77.497 | 53.4 | 24.097 | 54.000 | Average |

Note:

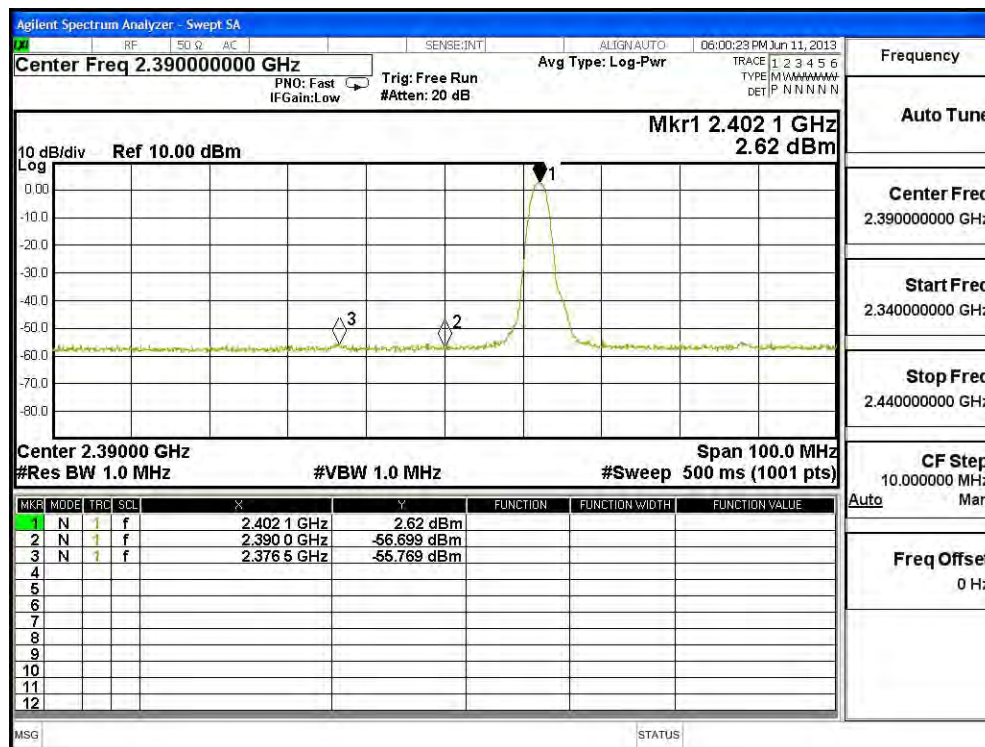
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F - Δ

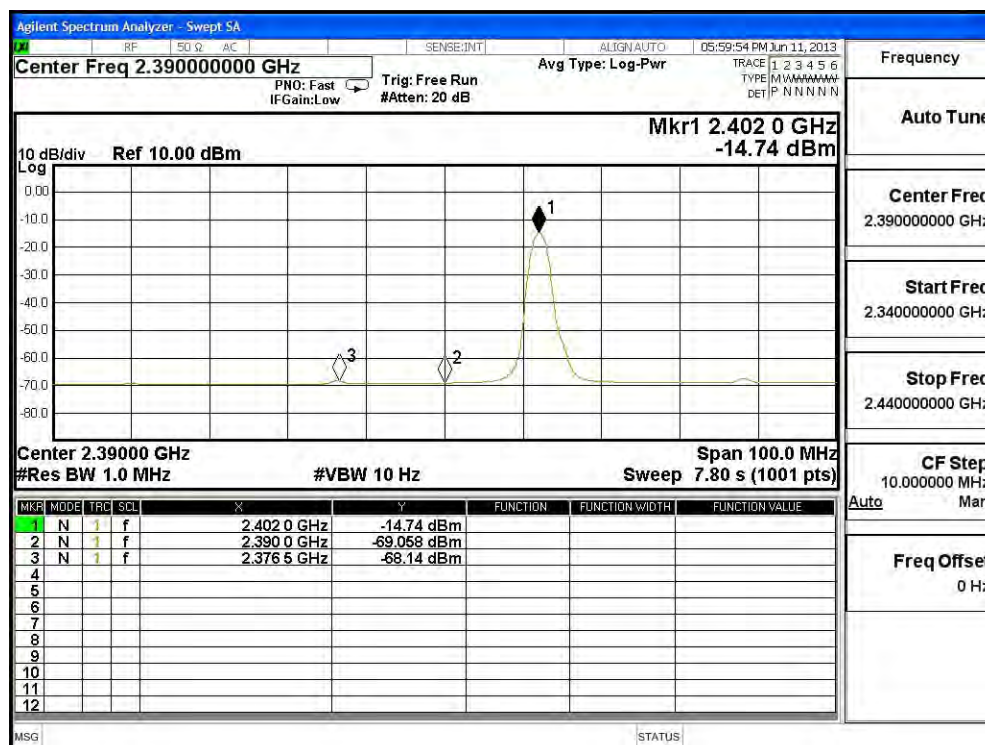
F = Fundamental field Strength (Peak or Average)

Δ = Conducted Band Edge Delta (Peak or Average)

Peak Detector of conducted Band Edge Delta



Average Detector of conducted Band Edge Delta



Product : TABLET PC
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2480MHz)

Fundamental Filed Strength

| Antenna Pole | Frequency [MHz] | Correction Factor [dB/m] | Reading Level [dBuV] | Emission Level [dB(uV/m)] | Detector |
|--------------|-----------------|--------------------------|----------------------|---------------------------|----------|
| Horizontal | 2480 | 32.155 | 63.13 | 95.286 | Peak |
| Horizontal | 2480 | 32.155 | 49.64 | 81.796 | Average |
| Vertical | 2480 | 31.412 | 59.78 | 91.192 | Peak |
| Vertical | 2480 | 31.412 | 46.94 | 78.352 | Average |

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

Band Edge Test Data

| Antenna Pole | Test Frequency (MHz) | Fundamental (dBuV/m) | Δ (dB) | Band Edge Field Strength (dBuV/m) | Limit (dBuV/m) | Detector |
|--------------|----------------------|----------------------|---------------|-----------------------------------|----------------|----------|
| Horizontal | 2483.5 | 95.286 | 54.008 | 41.278 | 74.000 | Peak |
| Horizontal | 2483.5 | 81.796 | 50.254 | 31.542 | 54.000 | Average |
| Vertical | 2483.5 | 91.192 | 54.008 | 37.184 | 74.000 | Peak |
| Vertical | 2483.5 | 78.352 | 50.254 | 28.098 | 54.000 | Average |

Note:

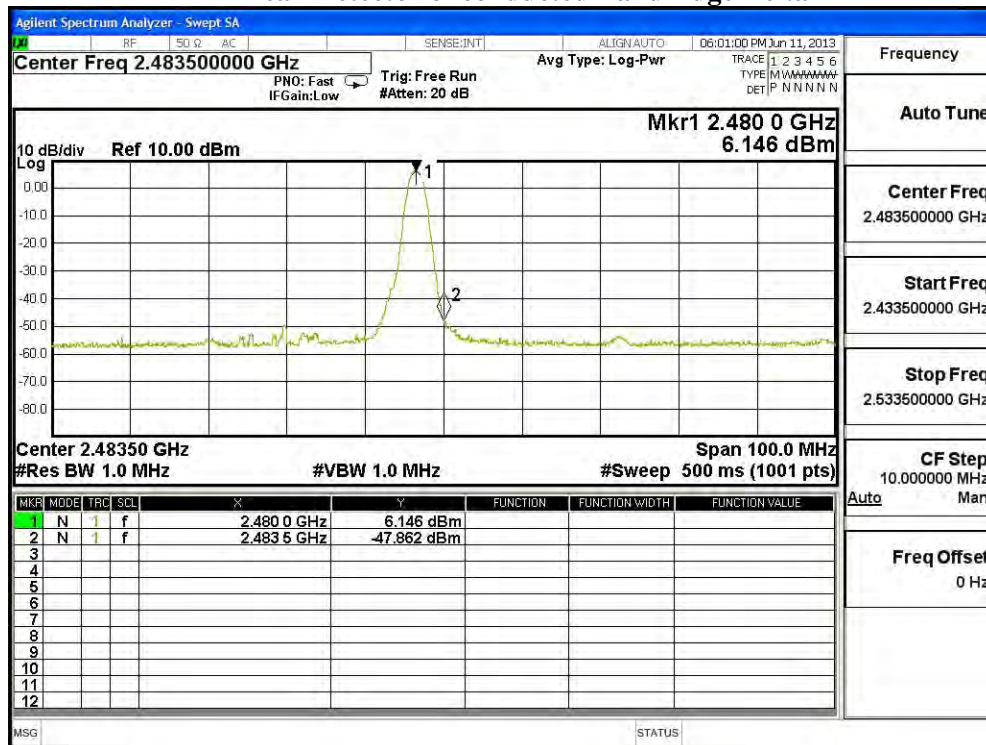
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = $F - \Delta$

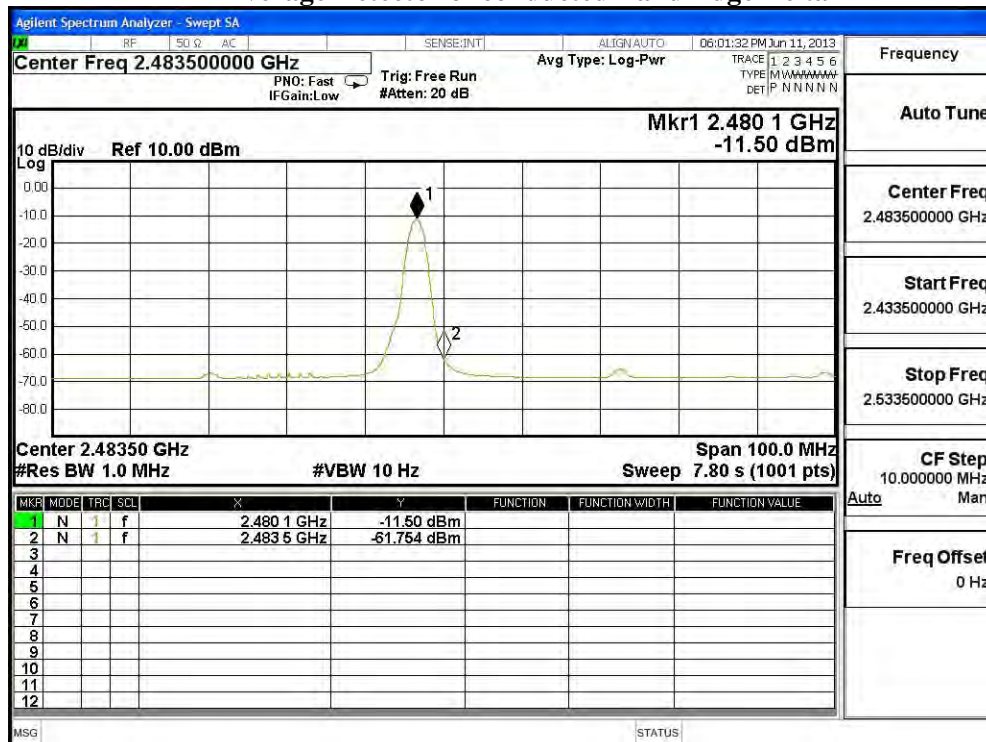
F = Fundamental field Strength (Peak or Average)

Δ = Conducted Band Edge Delta (Peak or Average)

Peak Detector of conducted Band Edge Delta



Average Detector of conducted Band Edge Delta



Product : TABLET PC
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - BLE (GFSK) (2402MHz)

Fundamental Filed Strength

| Antenna Pole | Frequency [MHz] | Correction Factor [dB/m] | Reading Level [dBuV] | Emission Level [dBuV/m] | Detector |
|--------------|-----------------|--------------------------|----------------------|-------------------------|----------|
| Horizontal | 2402 | 31.573 | 64.61 | 96.184 | Peak |
| Horizontal | 2402 | 31.573 | 44.31 | 75.884 | Average |
| Vertical | 2402 | 30.917 | 61.93 | 92.847 | Peak |
| Vertical | 2402 | 30.917 | 42.53 | 73.447 | Average |

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

Band Edge Test Data

| Antenna Pole | Test Frequency (MHz) | Fundamental (dBuV/m) | Δ (dB) | Band Edge Field Strength (dBuV/m) | Limit (dBuV/m) | Detector |
|--------------|----------------------|----------------------|---------------|-----------------------------------|----------------|----------|
| Horizontal | 2386.5 | 96.184 | 50.78 | 45.404 | 74.000 | Peak |
| Horizontal | 2375.9 | 75.884 | 40.98 | 34.904 | 54.000 | Average |
| Vertical | 2386.5 | 92.847 | 50.78 | 42.067 | 74.000 | Peak |
| Vertical | 2375.9 | 73.447 | 40.98 | 32.467 | 54.000 | Average |

Note:

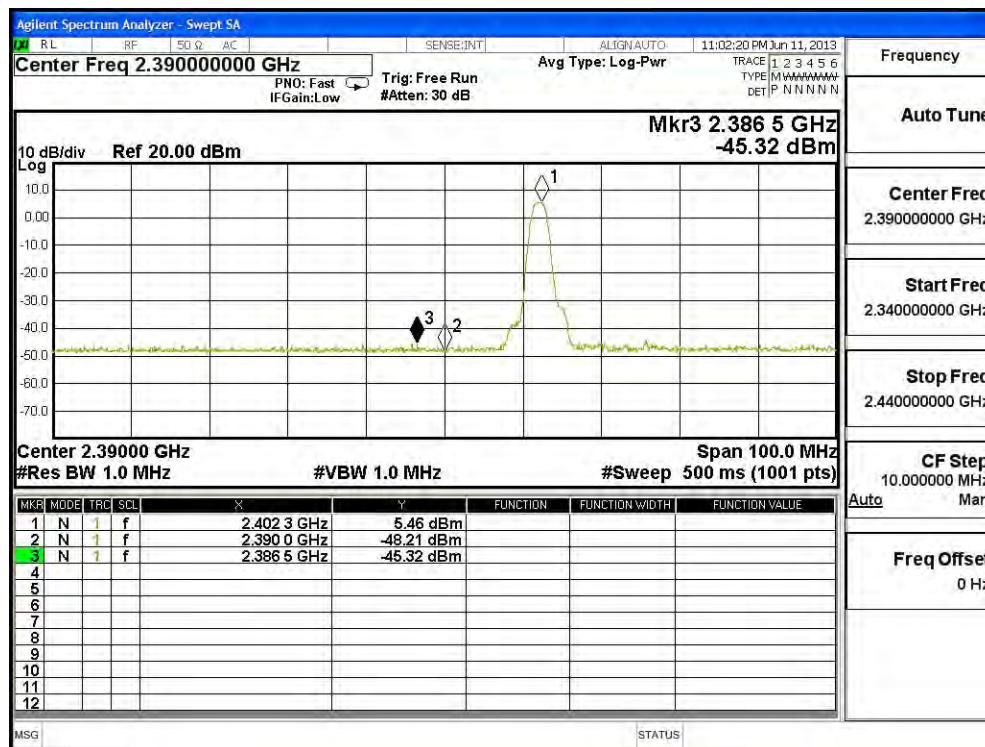
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F - Δ

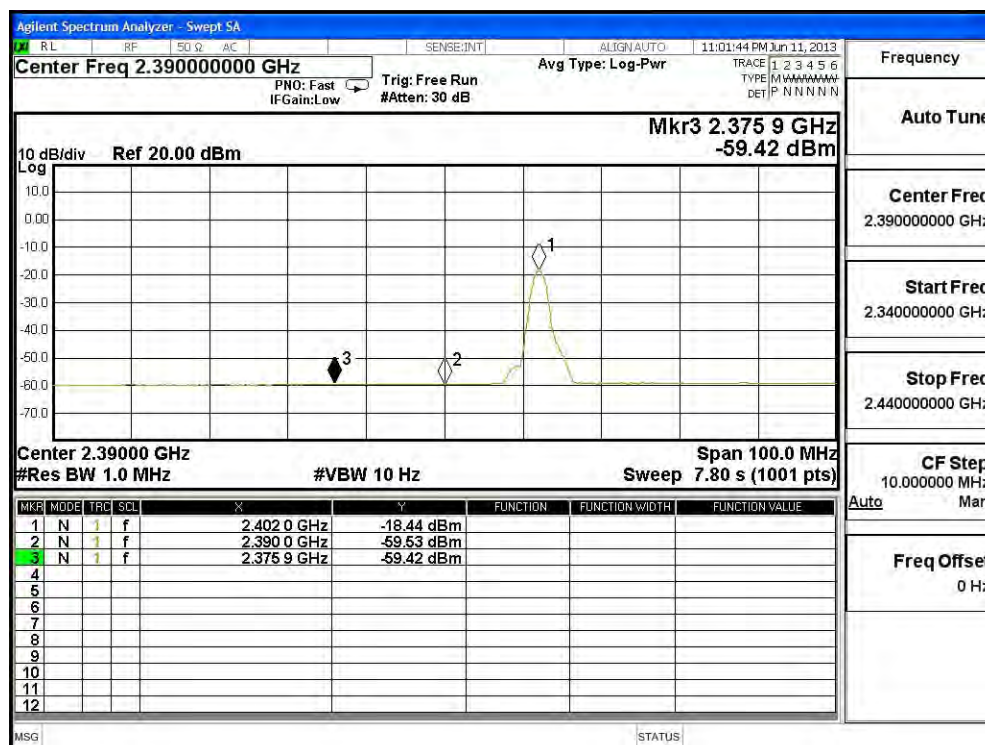
F = Fundamental field Strength (Peak or Average)

Δ = Conducted Band Edge Delta (Peak or Average)

Peak Detector of conducted Band Edge Delta



Average Detector of conducted Band Edge Delta



Product : TABLET PC
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - BLE (GFSK) (2480MHz)

Fundamental Filed Strength

| Antenna Pole | Frequency [MHz] | Correction Factor [dB/m] | Reading Level [dBuV] | Emission Level [dB(uV/m)] | Detector |
|--------------|-----------------|--------------------------|----------------------|---------------------------|----------|
| Horizontal | 2480 | 32.155 | 62.06 | 94.216 | Peak |
| Horizontal | 2480 | 32.155 | 42.73 | 74.886 | Average |
| Vertical | 2480 | 31.412 | 60.47 | 91.882 | Peak |
| Vertical | 2480 | 31.412 | 41.78 | 73.192 | Average |

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

Band Edge Test Data

| Antenna Pole | Test Frequency (MHz) | Fundamental (dBuV/m) | Δ (dB) | Band Edge Field Strength (dBuV/m) | Limit (dBuV/m) | Detector |
|--------------|----------------------|----------------------|---------------|-----------------------------------|----------------|----------|
| Horizontal | 2483.5 | 94.216 | 42.05 | 52.166 | 74.000 | Peak |
| Horizontal | 2483.5 | 74.886 | 35.1 | 39.786 | 54.000 | Average |
| Vertical | 2483.5 | 91.882 | 42.05 | 49.832 | 74.000 | Peak |
| Vertical | 2483.5 | 73.192 | 35.1 | 38.092 | 54.000 | Average |

Note:

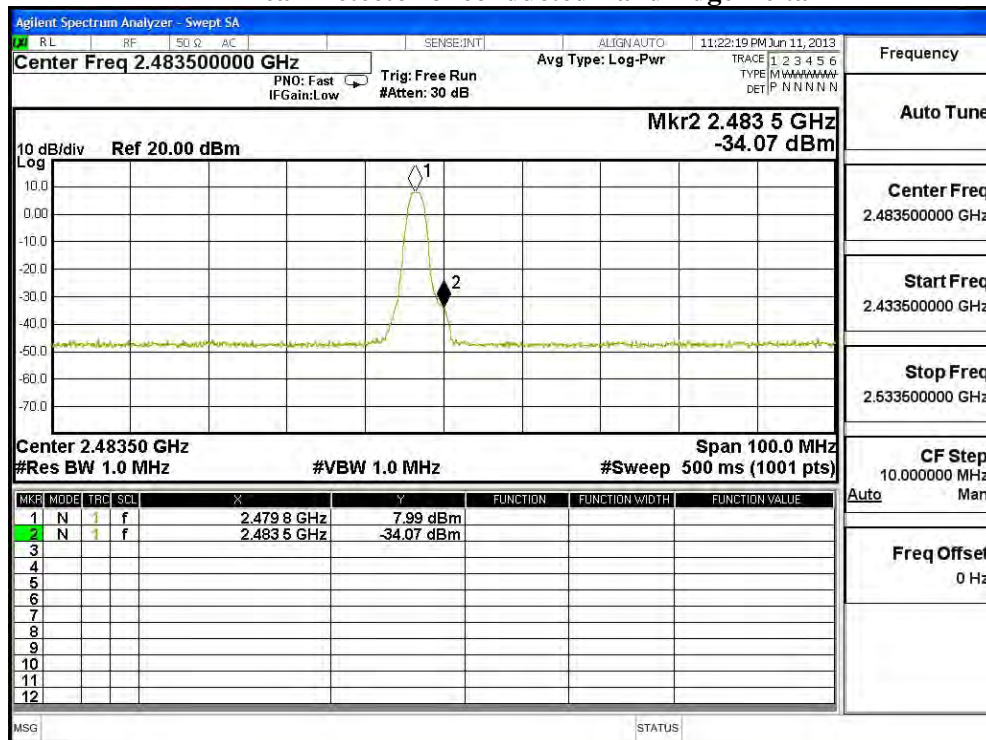
The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F - Δ

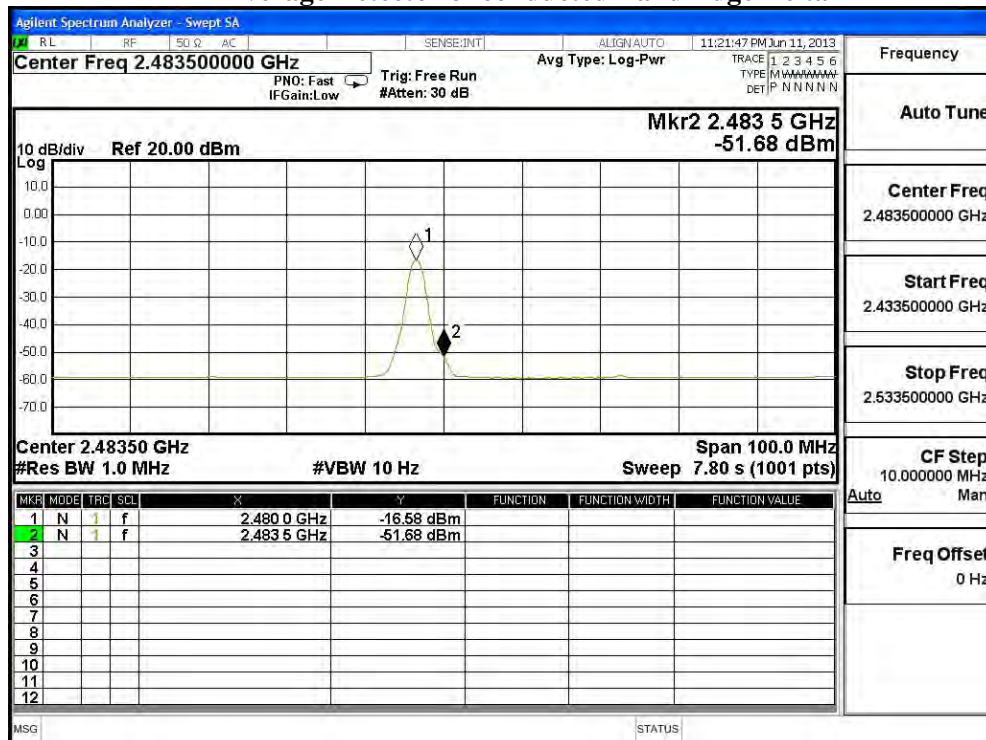
F = Fundamental field Strength (Peak or Average)

Δ = Conducted Band Edge Delta (Peak or Average)

Peak Detector of conducted Band Edge Delta



Average Detector of conducted Band Edge Delta



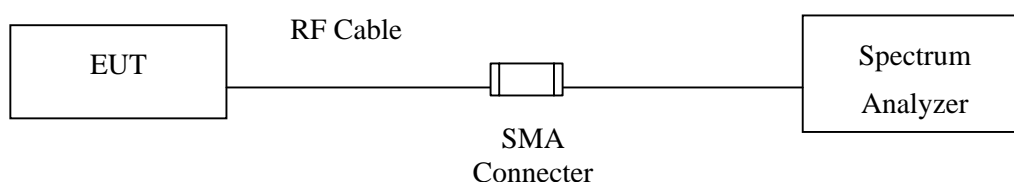
7. Channel Number

7.1. Test Equipment

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|-------------------|--------------|----------------------|------------|
| | Spectrum Analyzer | R&S | FSP40 / 100170 | Jun, 2013 |
| | Spectrum Analyzer | Agilent | E4407B / US39440758 | Jun, 2013 |
| X | Spectrum Analyzer | Agilent | N9010A / MY48030495 | Apr., 2013 |

Note: 1. All equipments are calibrated every one year.
2. The test instruments marked by "X" are used to measure the final test results.

7.2. Test Setup



7.3. Limit

Frequency hopping systems operating in the 2400-2483.5 MHz bands shall use at least 75 hopping frequencies.

7.4. Test Procedure

The EUT was setup to ANSI C63.10: 2009; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

7.5. Uncertainty

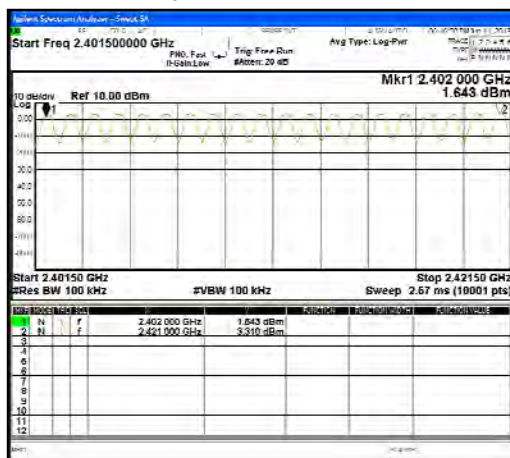
N/A

7.6. Test Result of Channel Number

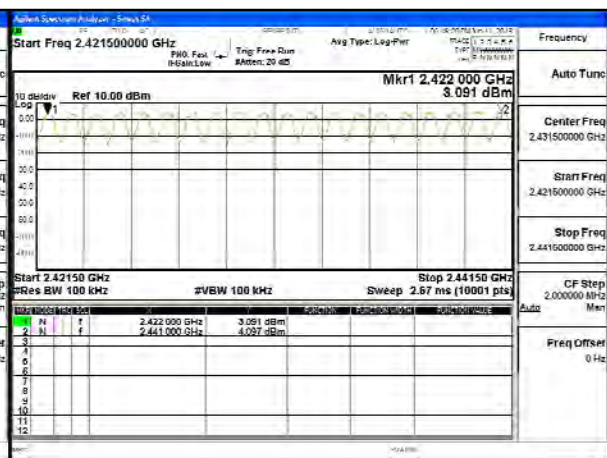
Product : TABLET PC
Test Item : Channel Number
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit - 1Mbps (GFSK)

| Frequency Range (MHz) | Measurement (Hopping Channel) | Required Limit (Hopping Channel) | Result |
|--------------------------|----------------------------------|-------------------------------------|--------|
| 2402 ~ 2480 | 79 | >75 | Pass |

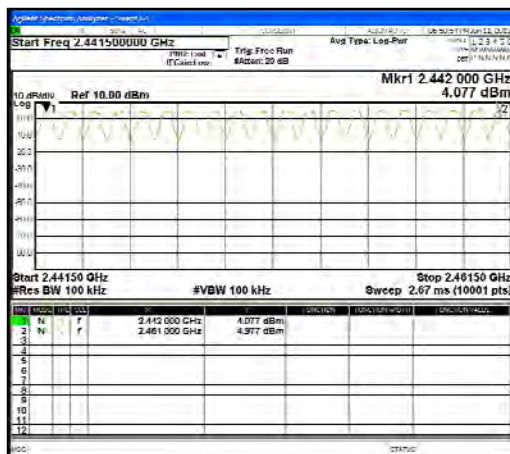
2402-2421MHz



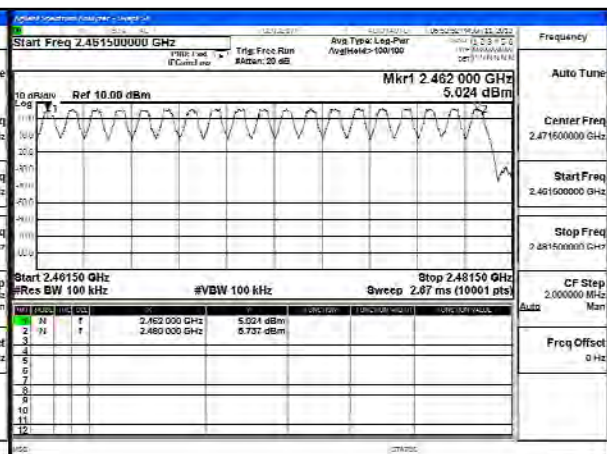
2422-2441MHz



2442-2461MHz



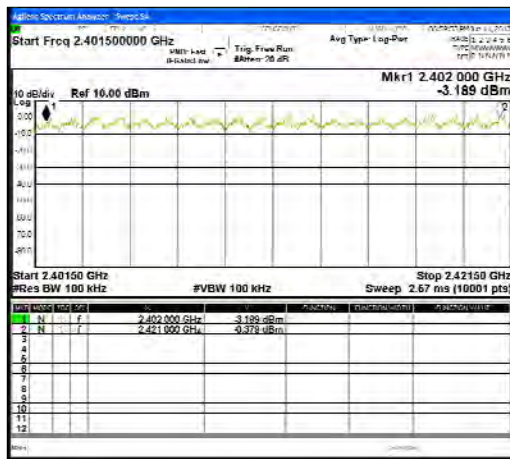
2462-2480MHz



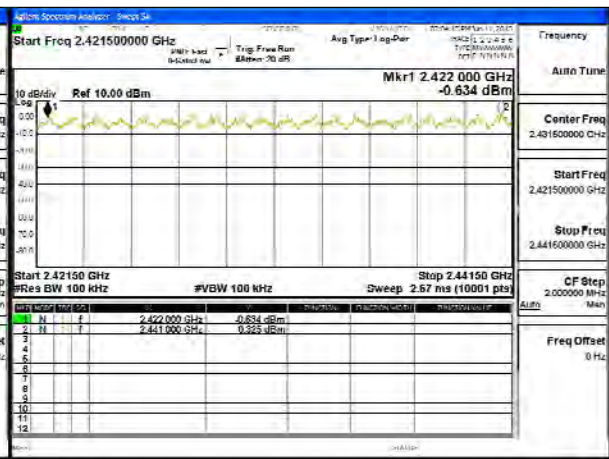
Product : TABLET PC
 Test Item : Channel Number
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 3Mbps (8DPSK)

| Frequency Range (MHz) | Measurement (Hopping Channel) | Required Limit (Hopping Channel) | Result |
|--------------------------|----------------------------------|-------------------------------------|--------|
| 2402 ~ 2480 | 79 | >75 | Pass |

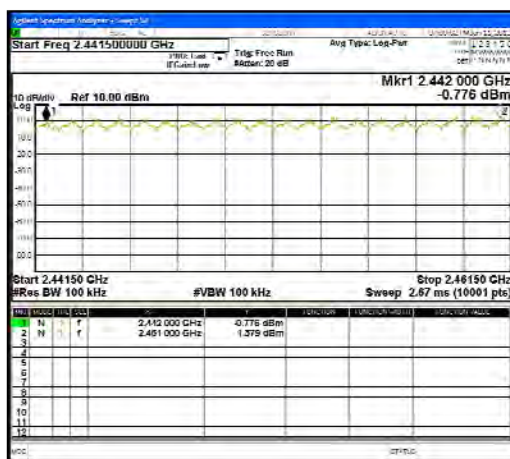
2402-2421MHz



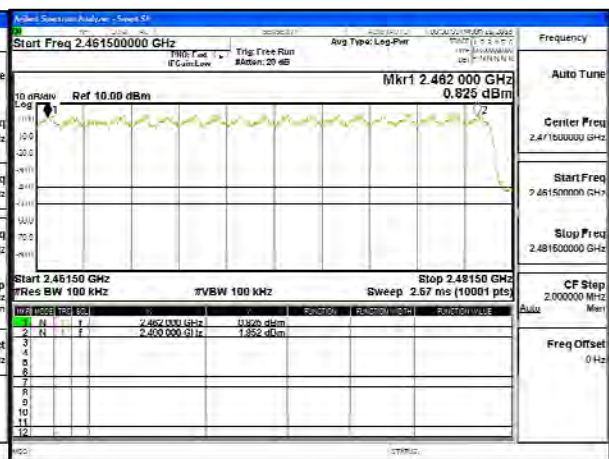
2422-2441MHz



2442-2461MHz



2462-2480MHz



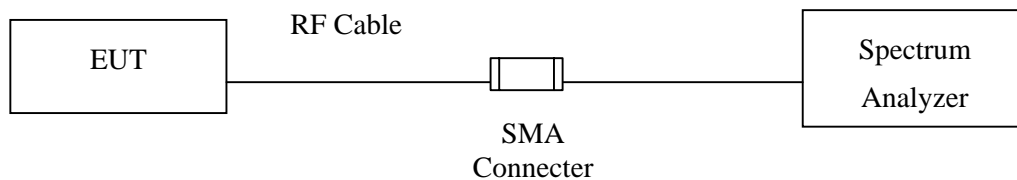
8. Channel Separation

8.1. Test Equipment

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|-------------------|--------------|----------------------|------------|
| | Spectrum Analyzer | R&S | FSP40 / 100170 | Jun, 2013 |
| | Spectrum Analyzer | Agilent | E4407B / US39440758 | Jun, 2013 |
| X | Spectrum Analyzer | Agilent | N9010A / MY48030495 | Apr., 2013 |

Note: 1. All equipments are calibrated every one year.
2. The test instruments mark by "X" are used to measure the final test results.

8.2. Test Setup



8.3. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

8.4. Test Procedure

The EUT was setup to ANSI C63.10: 2009; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

8.5. Uncertainty

$\pm 150\text{Hz}$

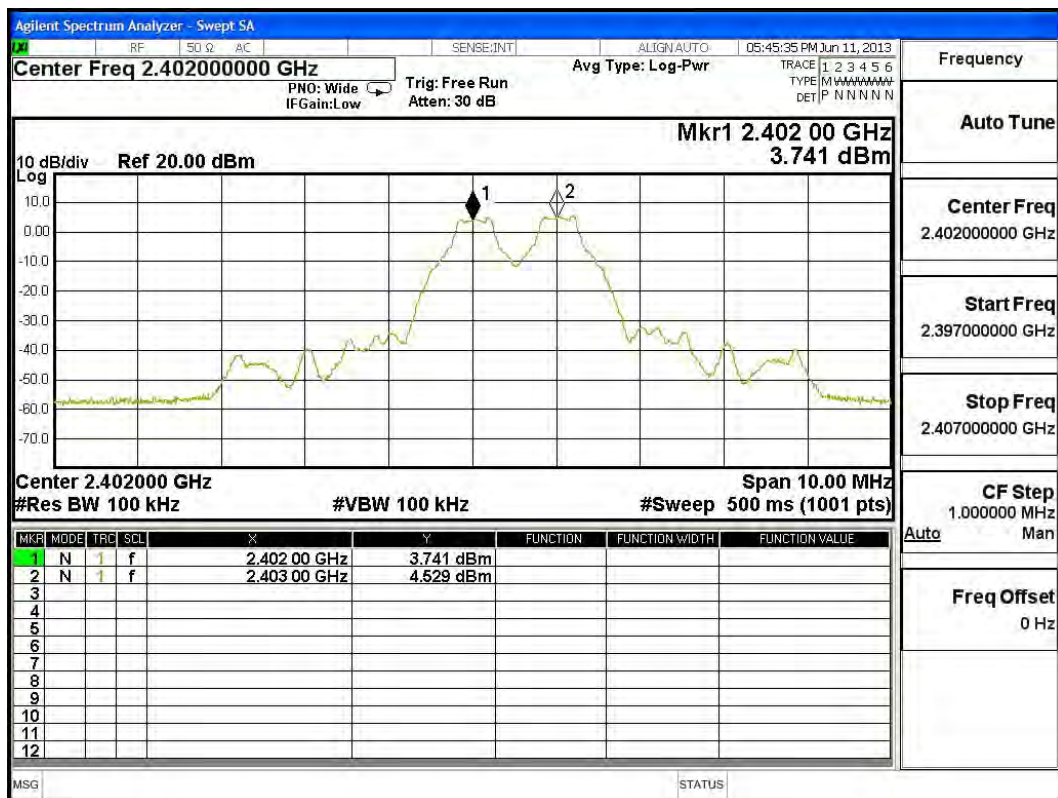
8.6. Test Result of Channel Separation

Product : TABLET PC
 Test Item : Channel Separation
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 1Mbps (GFSK)

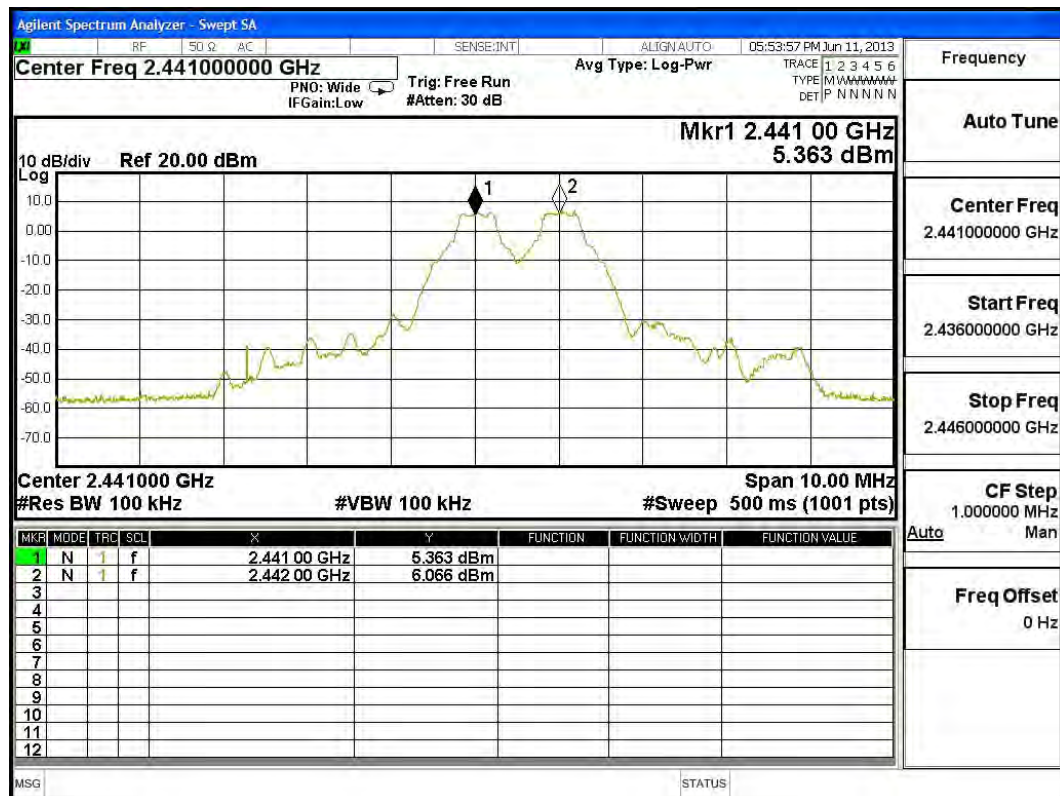
| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Limit (kHz) | Limit of (2/3)*20dB Bandwidth (kHz) | Result |
|-------------|-----------------|-------------------------|-------------|-------------------------------------|--------|
| 00 | 2402 | 1000 | >25 kHz | 746.7 | Pass |
| 39 | 2441 | 1000 | >25 kHz | 753.3 | Pass |
| 78 | 2480 | 1000 | >25 kHz | 746.7 | Pass |

NOTE: The 20dB Bandwidth is refer to section 10.

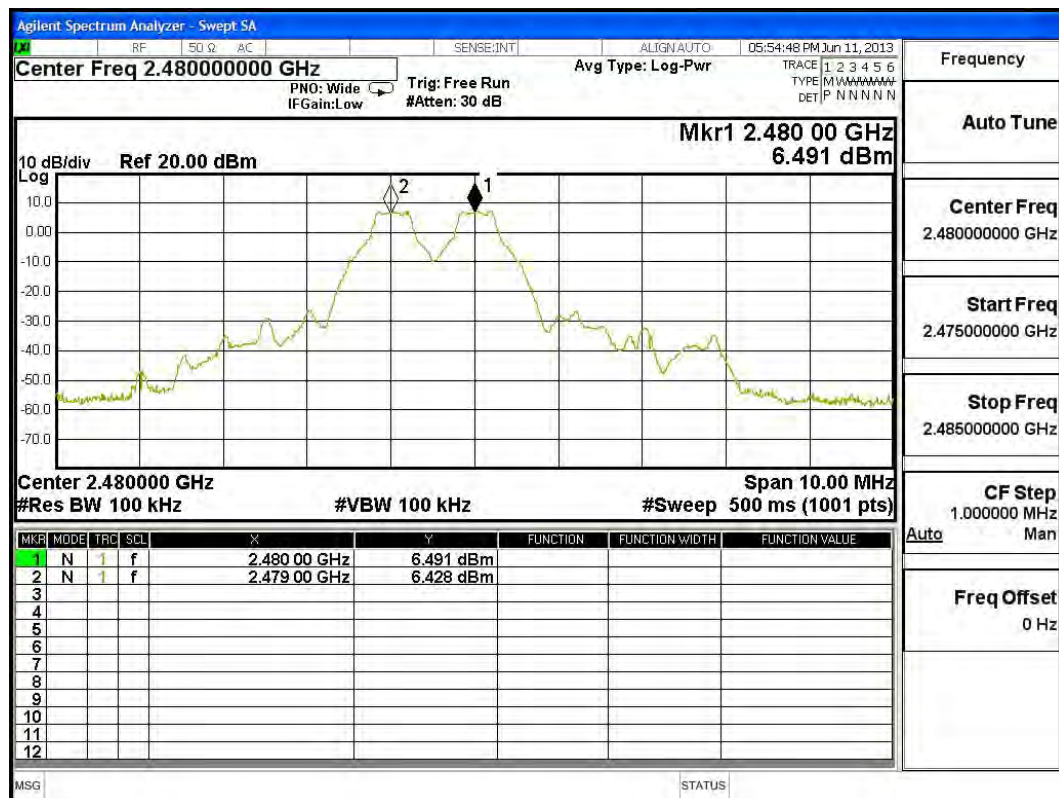
Channel 00 2402MHz



Channel 39 2441MHz



Channel 78 2480 MHz

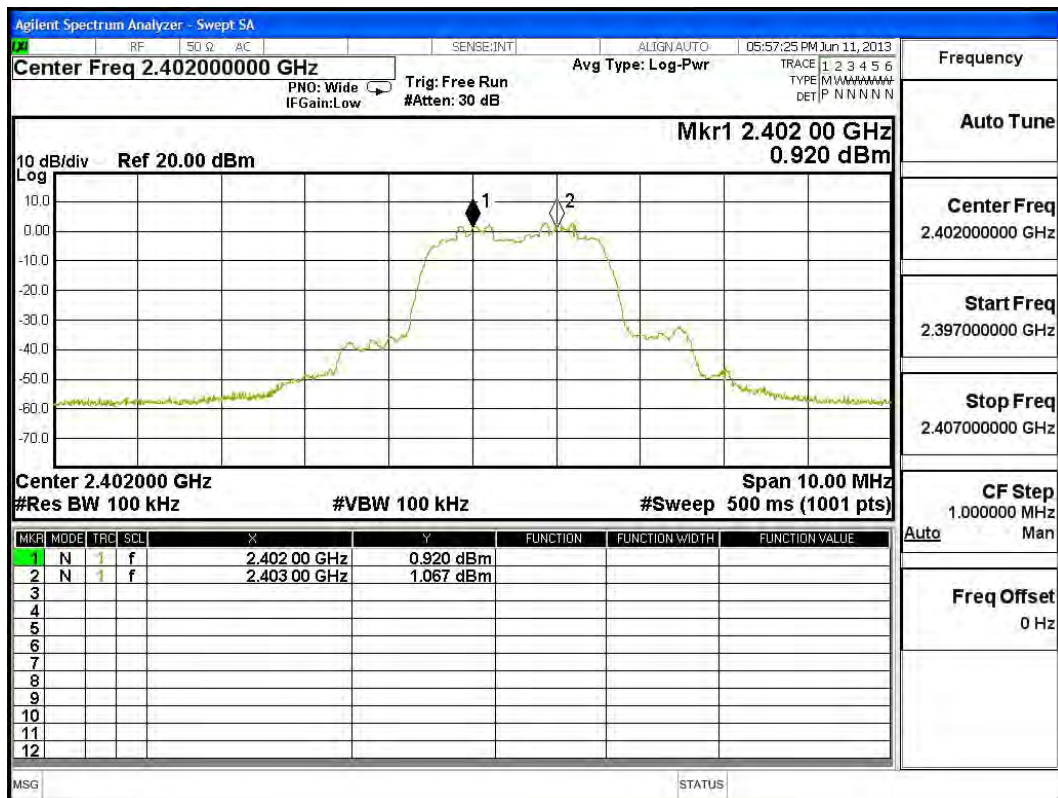


Product : TABLET PC
 Test Item : Channel Separation
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 3Mbps (8DPSK)

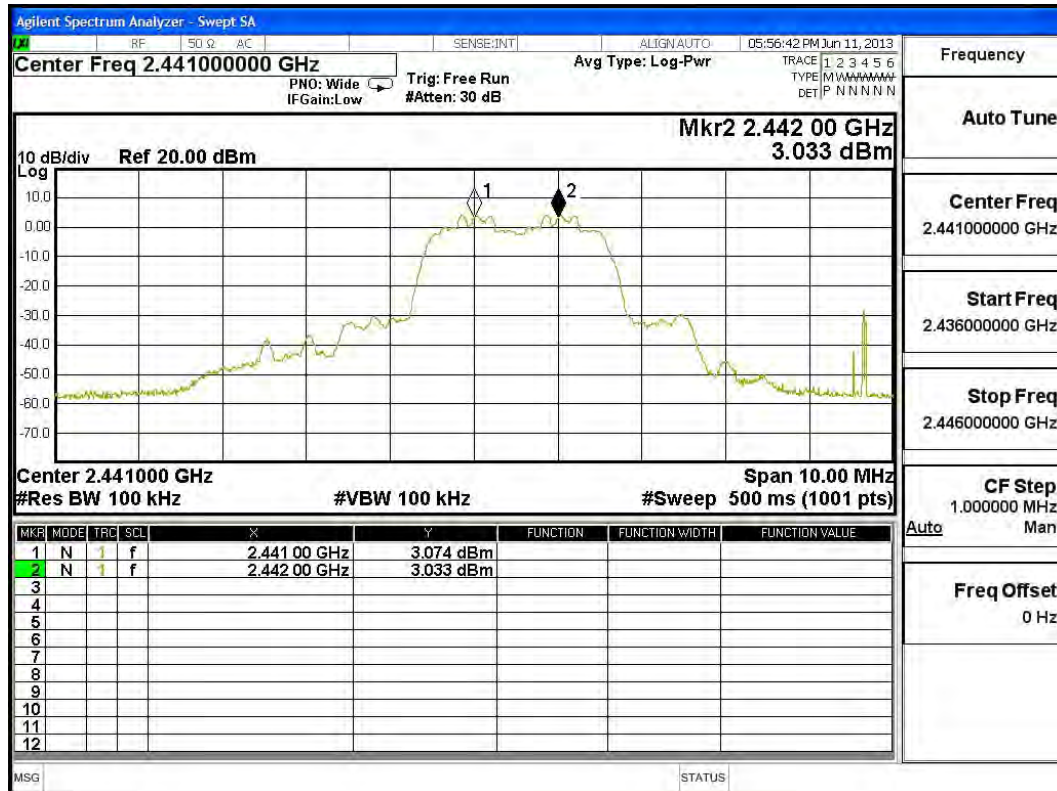
| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Limit (kHz) | Limit of (2/3)*20dB Bandwidth (kHz) | Result |
|-------------|-----------------|-------------------------|-------------|-------------------------------------|--------|
| 00 | 2402 | 1000 | >25 kHz | 920.0 | Pass |
| 39 | 2441 | 1000 | >25 kHz | 926.7 | Pass |
| 78 | 2480 | 1000 | >25 kHz | 926.7 | Pass |

NOTE: The 20dB Bandwidth is refer to section 10.

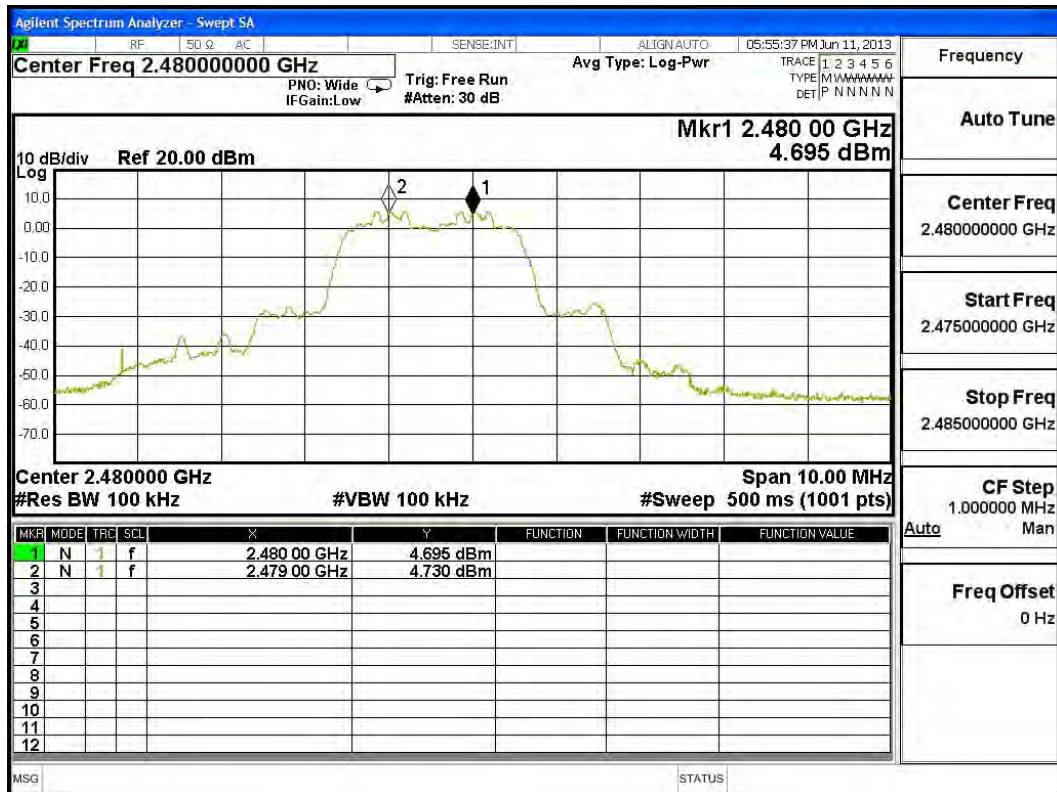
Channel 00 2402MHz



Channel 39 2441MHz



Channel 78 2480 MHz



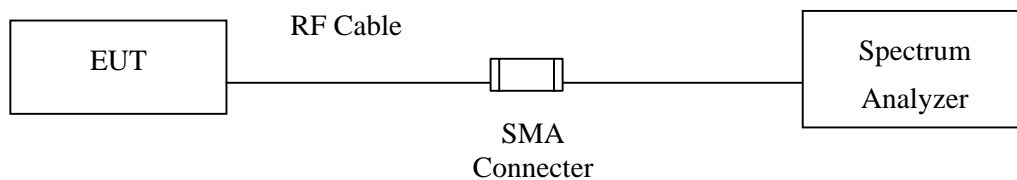
9. Dwell Time

9.1. Test Equipment

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|-------------------|--------------|----------------------|------------|
| | Spectrum Analyzer | R&S | FSP40 / 100170 | Jun, 2013 |
| | Spectrum Analyzer | Agilent | E4407B / US39440758 | Jun, 2013 |
| X | Spectrum Analyzer | Agilent | N9010A / MY48030495 | Apr., 2013 |

Note: 1. All equipments are calibrated every one year.
 2. The test instruments marked by "X" are used to measure the final test results.

9.2. Test Setup



9.3. Limit

The dwell time shall be the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

9.4. Test Procedure

The EUT was setup to ANSI C63.10: 2009; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

9.5. Uncertainty

$\pm 25\text{msec}$

9.6. Test Result of Dwell Time

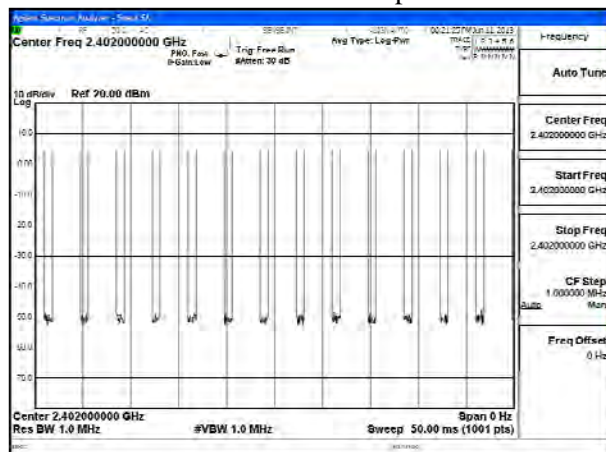
Product : TABLET PC
 Test Item : Dwell Time
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 1Mbps (GFSK) (Channel 00,39,78 –DH5)

| Frequency (MHz) | Time slot length (ms) | Hopping of Number | Sweep time (ms) | Duty cycle | Dwell Time (Sec) | Limit (Sec) | Result |
|-----------------|-----------------------|-------------------|-----------------|------------|------------------|-------------|--------|
| 2402 | 2.880 | 14 | 50 | 0.81 | 0.323 | 0.4 | Pass |
| 2441 | 2.880 | 14 | 50 | 0.81 | 0.323 | 0.4 | Pass |
| 2480 | 2.880 | 14 | 50 | 0.81 | 0.323 | 0.4 | Pass |

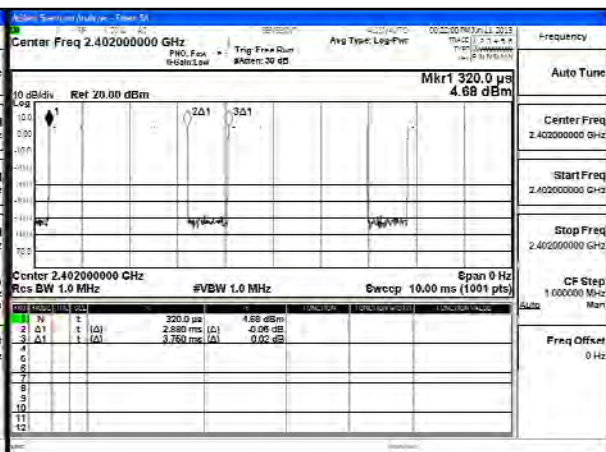
Duty cycle = ((Time slot length(ms)*Hopping of Number) / Sweep time (ms))

Dwell time = (Duty cycle /79) * (79*0.4)

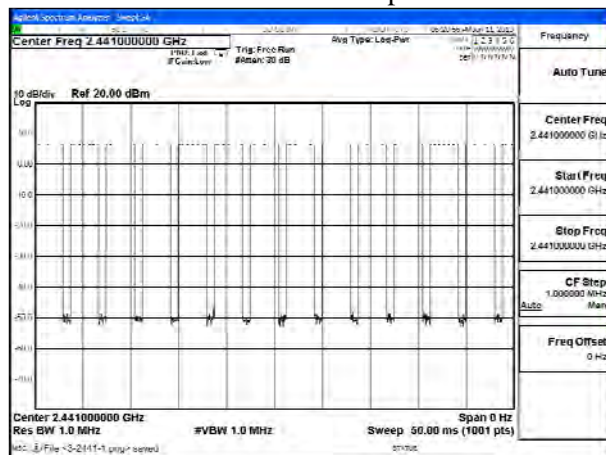
CH 00 Time Interval between hops



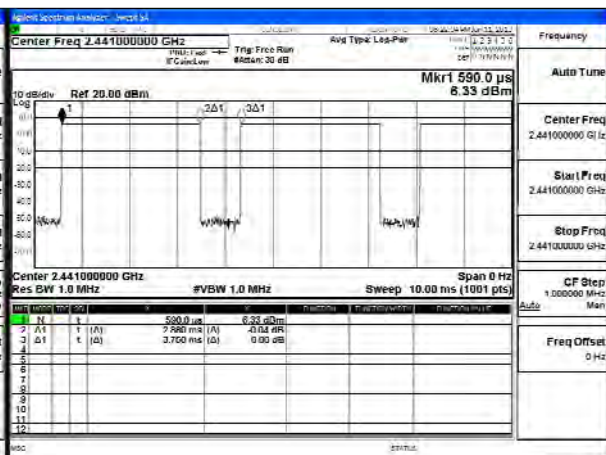
CH 00 Transmission Time



CH39 Time Interval between hops

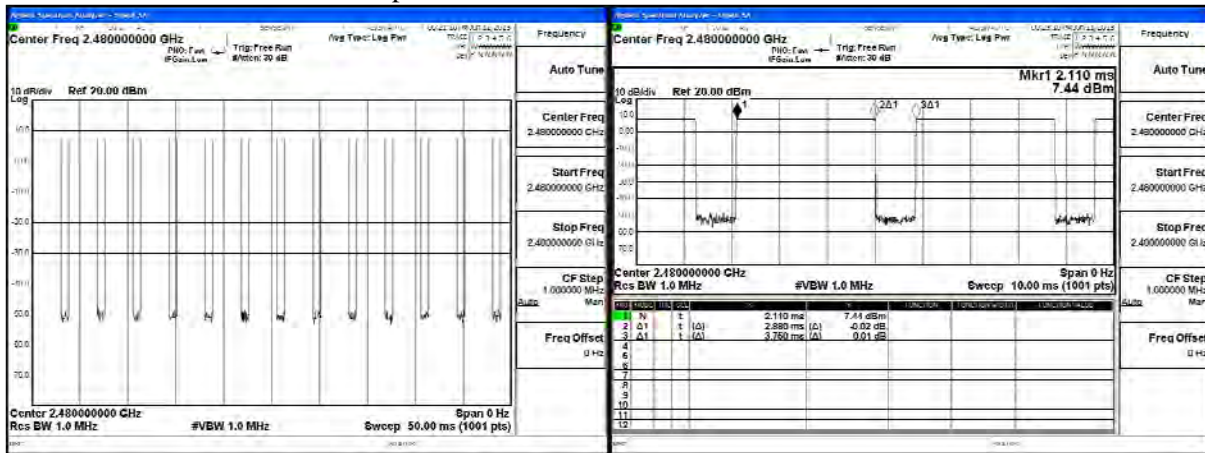


CH 39 Transmission Time



CH 78 Time Interval between hops

CH 78 Transmission Time



Note:

The dwell times of the packet type of DH1, DH3, and DH5 are tested. Only the worst case is shown on the report.

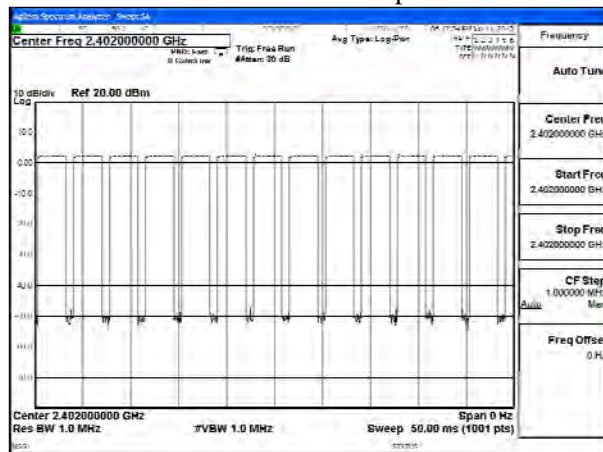
Product : TABLET PC
 Test Item : Dwell Time
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (Channel 00,39,78 –DH5)

| Frequency (MHz) | Time slot length (ms) | Hopping of Number | Sweep time (ms) | Duty cycle | Dwell Time (Sec) | Limit (Sec) | Result |
|-----------------|-----------------------|-------------------|-----------------|------------|------------------|-------------|--------|
| 2402 | 2.900 | 14 | 50 | 0.81 | 0.325 | 0.4 | Pass |
| 2441 | 2.890 | 14 | 50 | 0.81 | 0.324 | 0.4 | Pass |
| 2480 | 2.880 | 14 | 50 | 0.81 | 0.323 | 0.4 | Pass |

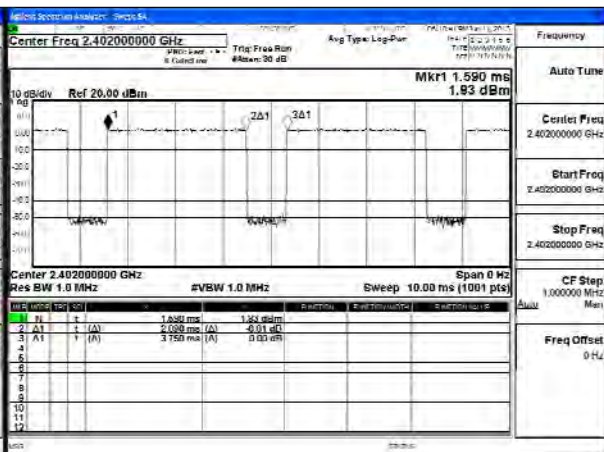
Duty cycle = ((Time slot length(ms)*Hopping of Number) / Sweep time (ms))

Dwell time = (Duty cycle /79) * (79*0.4)

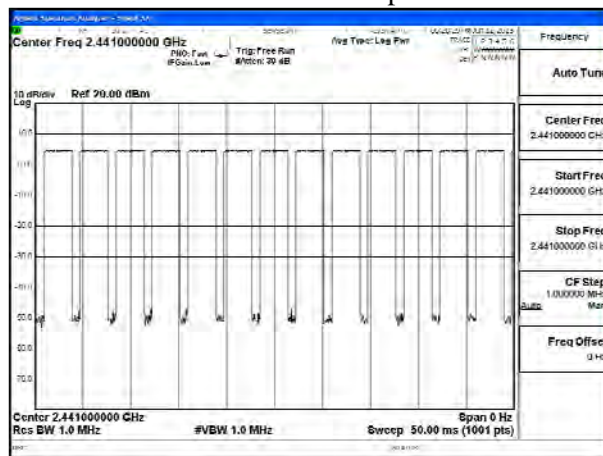
CH 00 Time Interval between hops



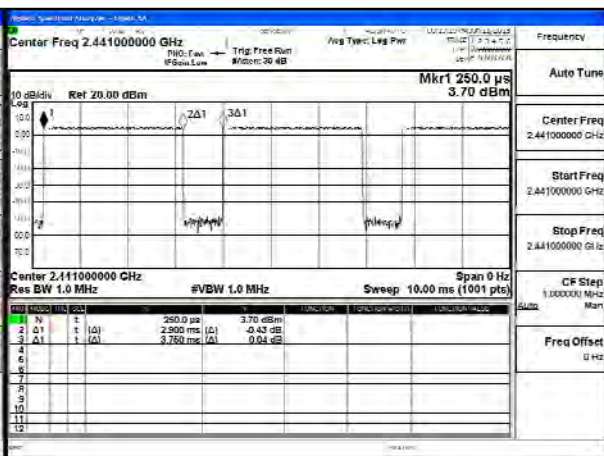
CH 00 Transmission Time



CH39 Time Interval between hops

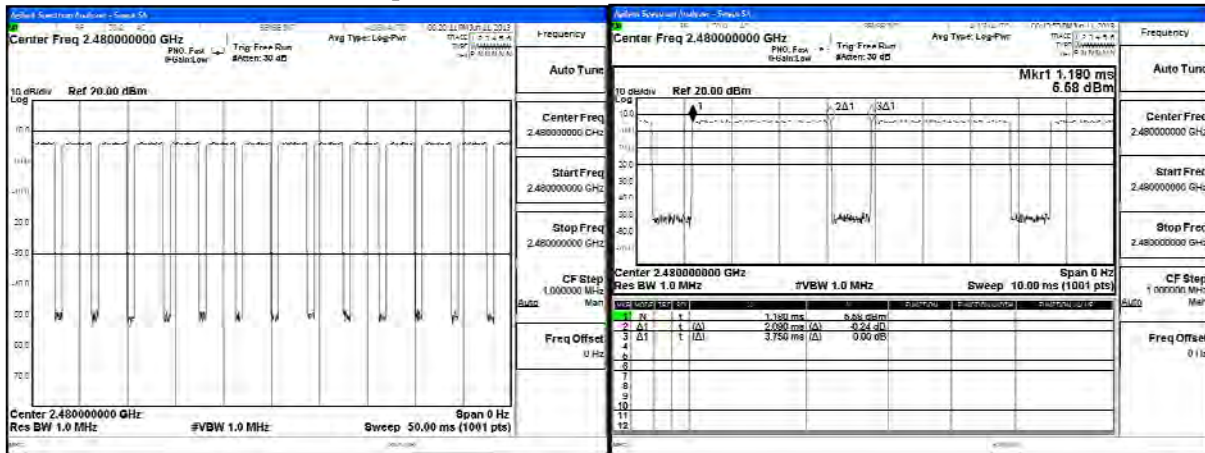


CH 39 Transmission Time



CH 78 Time Interval between hops

CH 78 Transmission Time



Note:

The dwell times of the packet type of DH1, DH3, and DH5 are tested. Only the worst case is shown on the report.

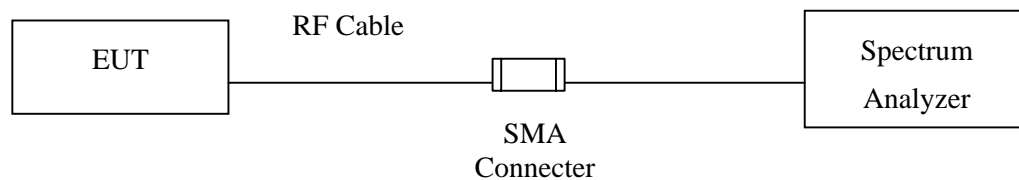
10. Occupied Bandwidth (20dB BW)

10.1. Test Equipment

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|-------------------|--------------|----------------------|------------|
| | Spectrum Analyzer | R&S | FSP40 / 100170 | Jun, 2013 |
| | Spectrum Analyzer | Agilent | E4407B / US39440758 | Jun, 2013 |
| X | Spectrum Analyzer | Agilent | N9010A / MY48030495 | Apr., 2013 |

Note: 1. All equipments are calibrated every one year.
 2. The test instruments marked by “X” are used to measure the final test results.

10.2. Test Setup



10.3. Limits

N/A

10.4. Test Procedure

The EUT was setup to ANSI C63.10: 2009; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

10.5. Uncertainty

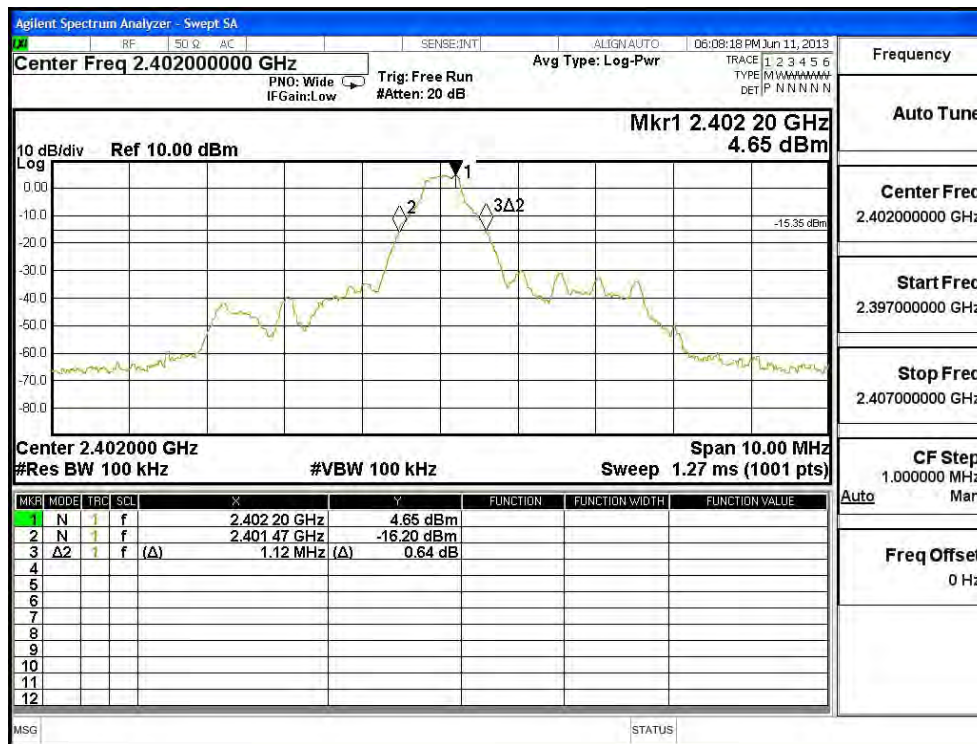
$\pm 150\text{Hz}$

10.6. Test Result of Occupied Bandwidth

Product : TABLET PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 1Mbps (GFSK)(2402MHz)

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 00 | 2402 | 1120 | -- | NA |

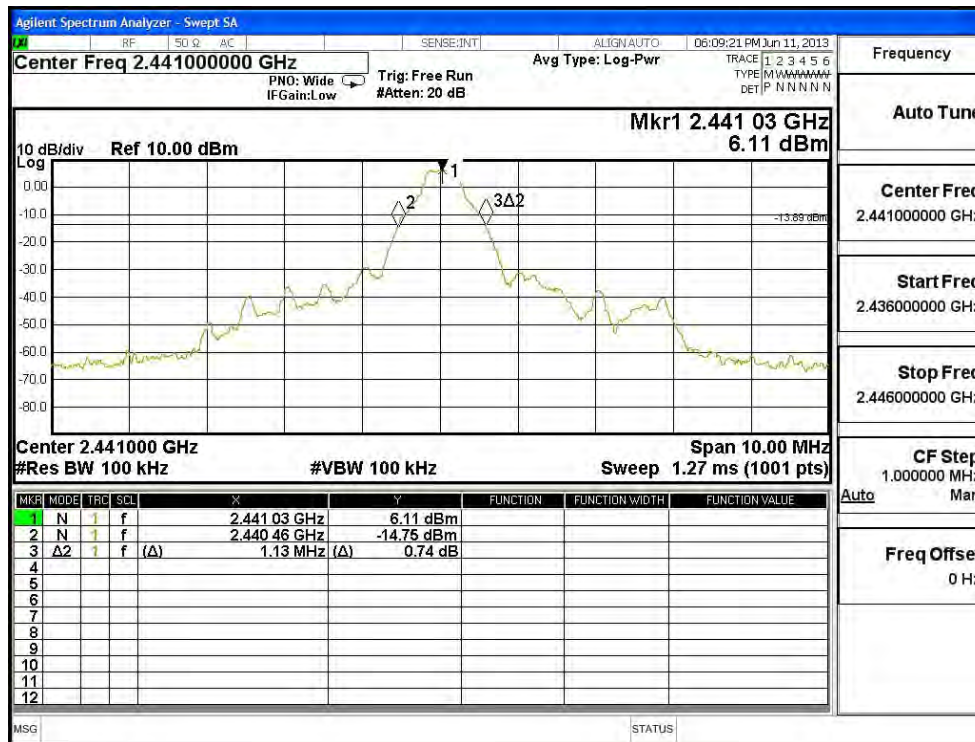
Figure Channel 00:



Product : TABLET PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 1Mbps (GFSK)(2441MHz)

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 39 | 2441 | 1130 | -- | NA |

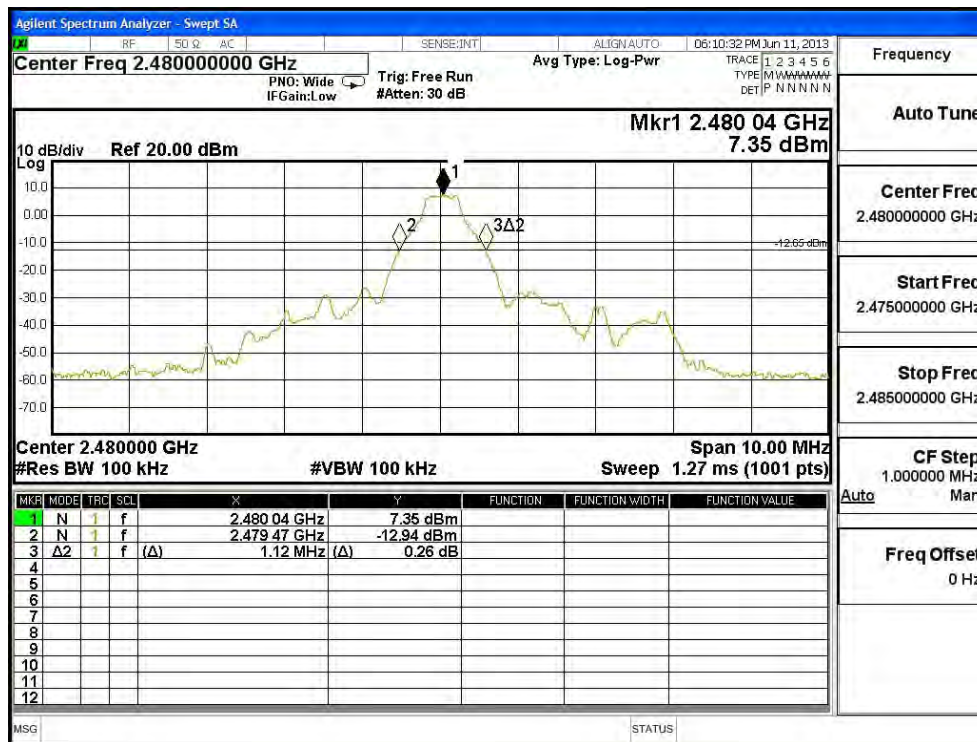
Figure Channel 39:



Product : TABLET PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 1Mbps (GFSK)(2480MHz)

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 78 | 2480 | 1120 | -- | NA |

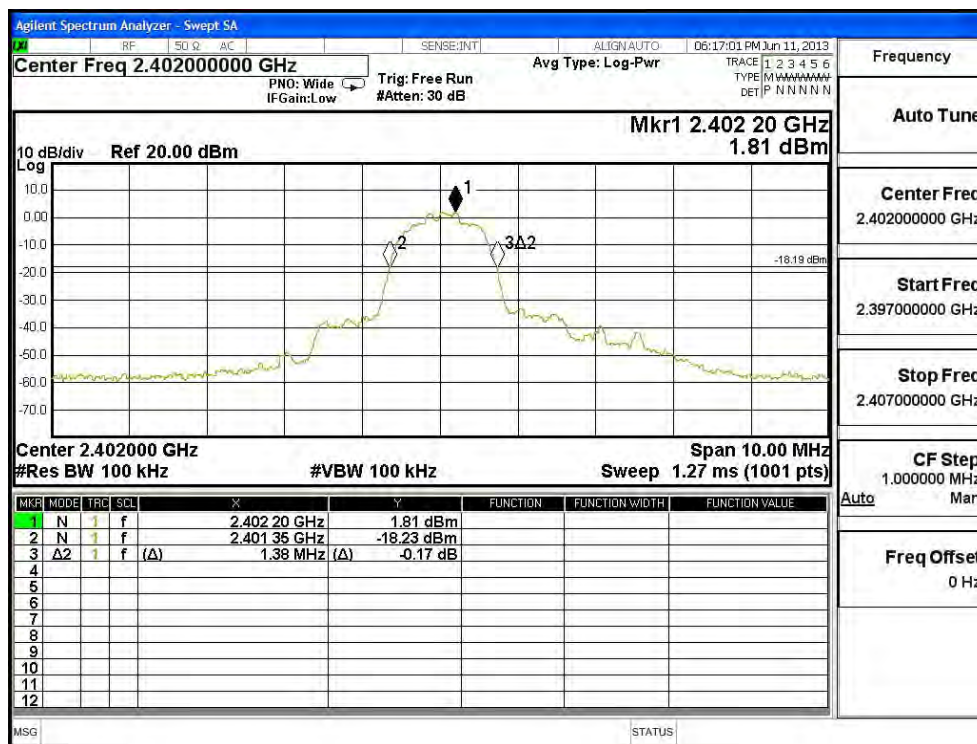
Figure Channel 78:



Product : TABLET PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2402MHz)

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 00 | 2402 | 1380 | -- | NA |

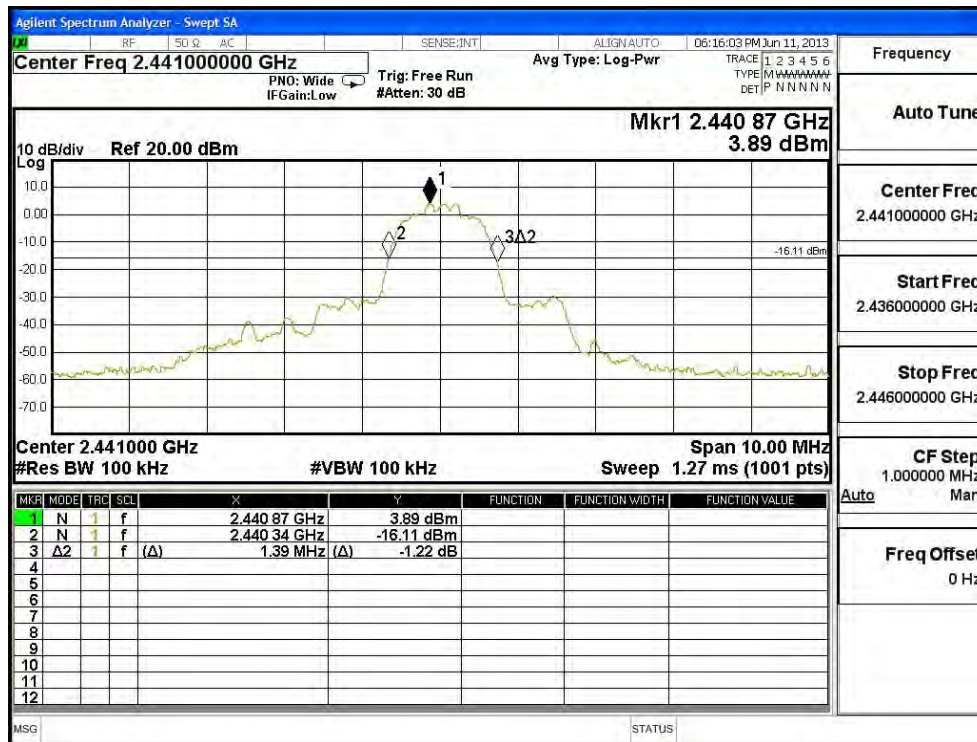
Figure Channel 00:



Product : TABLET PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2441MHz)

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 39 | 2441 | 1390 | -- | NA |

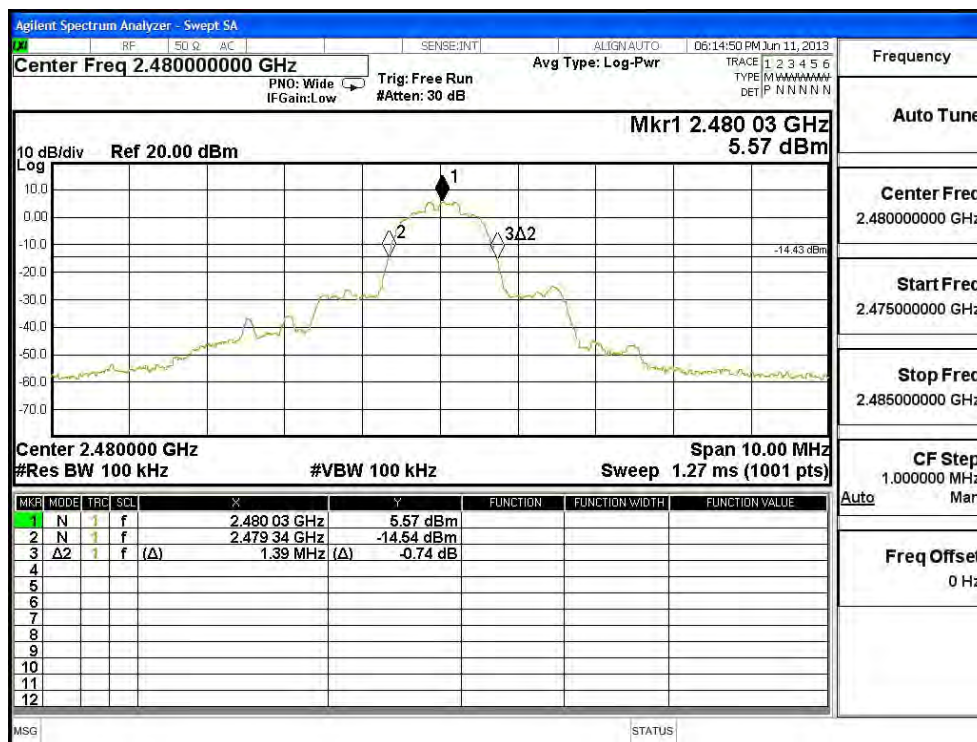
Figure Channel 39:



Product : TABLET PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 3Mbps (8DPSK)(2480MHz)

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 78 | 2480 | 1390 | -- | NA |

Figure Channel 78:



11. Occupied Bandwidth (6dB BW)

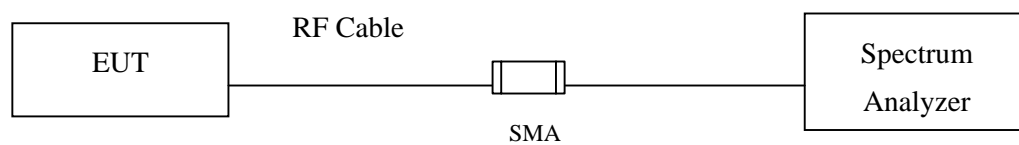
11.1. Test Equipment

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|-------------------|--------------|----------------------|------------|
| | Spectrum Analyzer | R&S | FSP40 / 100170 | Jun, 2013 |
| | Spectrum Analyzer | Agilent | E4407B / US39440758 | Jun, 2013 |
| X | Spectrum Analyzer | Agilent | N9010A / MY48030495 | Apr., 2013 |

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

11.2. Test Setup



11.3. Limits

The minimum bandwidth shall be at least 500 kHz.

11.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2009; tested according to DTS test procedure of ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements.

11.5. Uncertainty

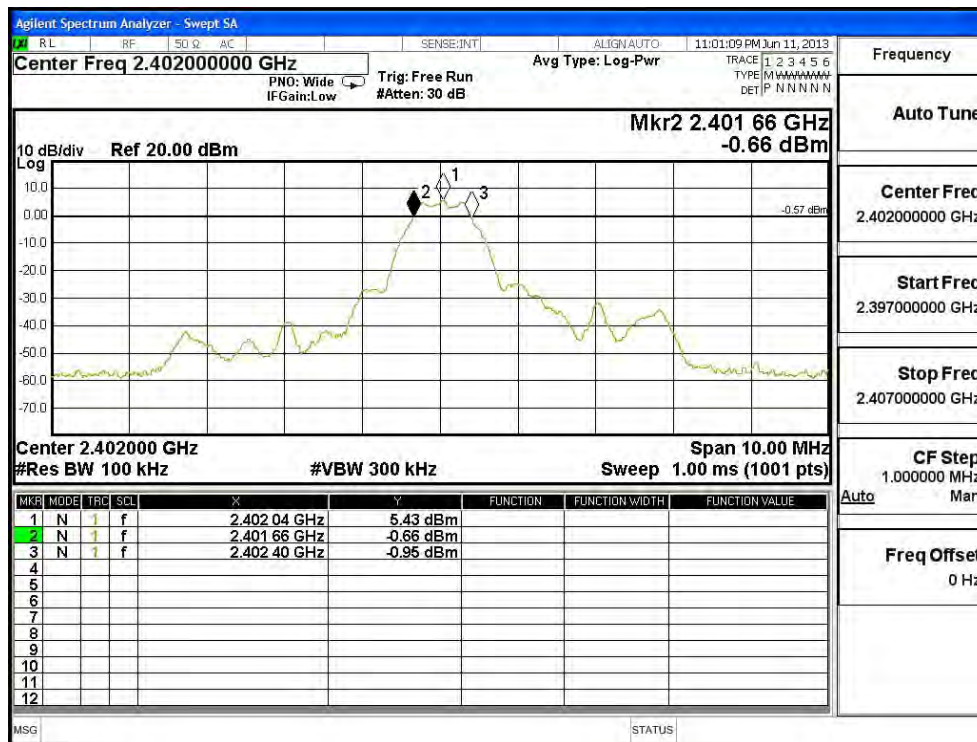
$\pm 150\text{Hz}$

11.6. Test Result of Occupied Bandwidth

Product : TABLET PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - BLE (GFSK) (2402MHz)

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 00 | 2402 | 740.0 | >500 | Pass |

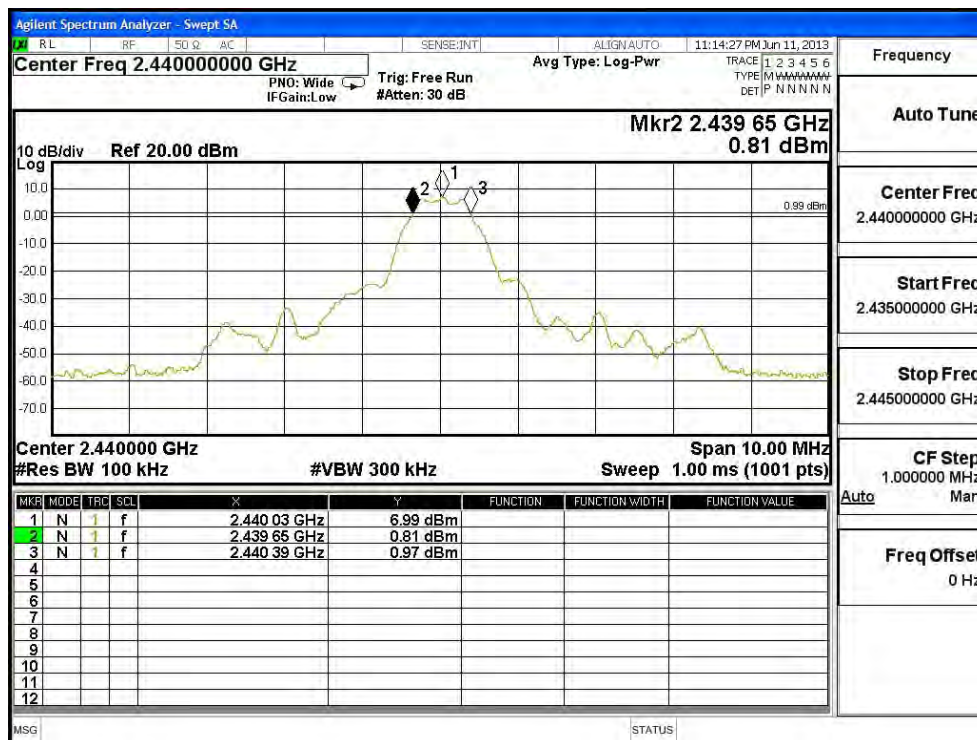
Figure Channel 00:



Product : TABLET PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - BLE (GFSK) (2440MHz)

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 19 | 2440 | 740.0 | >500 | Pass |

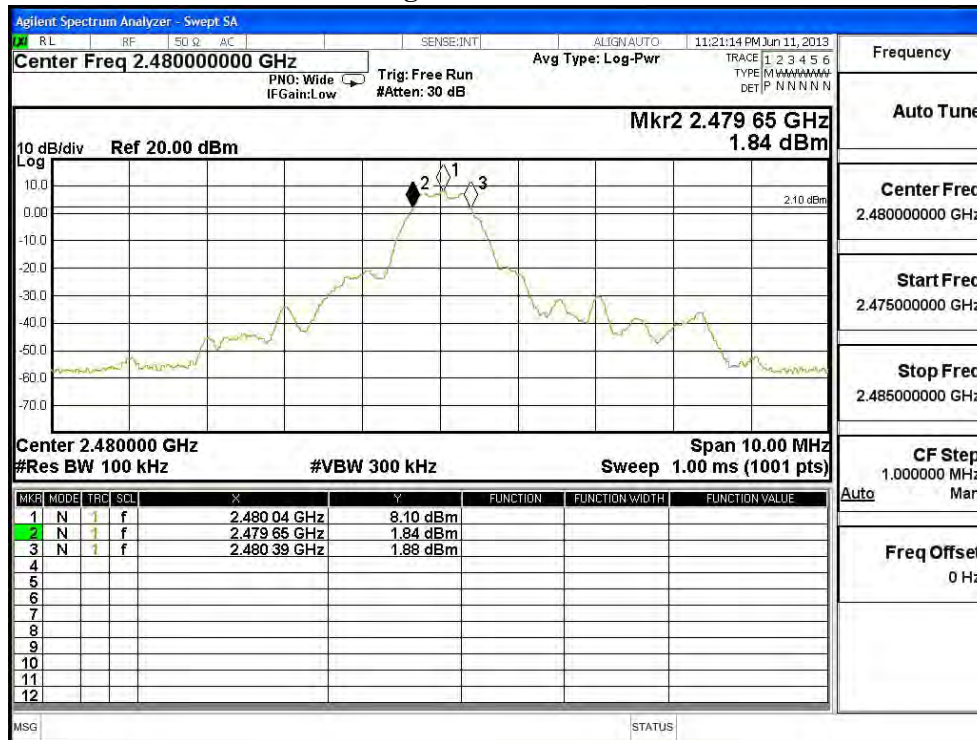
Figure Channel 19:



Product : TABLET PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - BLE (GFSK) (2480MHz)

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 39 | 2480 | 740.0 | >500 | Pass |

Figure Channel 39:



12. Power Density

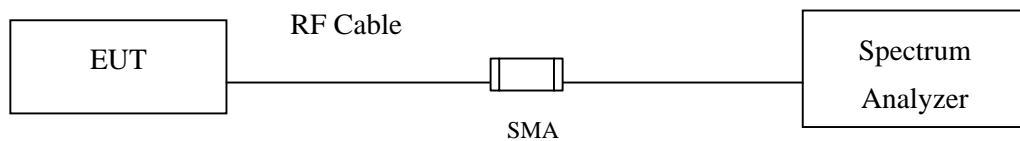
12.1. Test Equipment

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|-------------------|--------------|----------------------|------------|
| | Spectrum Analyzer | R&S | FSP40 / 100170 | Jun, 2013 |
| | Spectrum Analyzer | Agilent | E4407B / US39440758 | Jun, 2013 |
| X | Spectrum Analyzer | Agilent | N9010A / MY48030495 | Apr., 2013 |

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with "X" are used to measure the final test results.

12.2. Test Setup



12.3. Limits

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

12.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2009; tested according to DTS test procedure of ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements.

12.5. Uncertainty

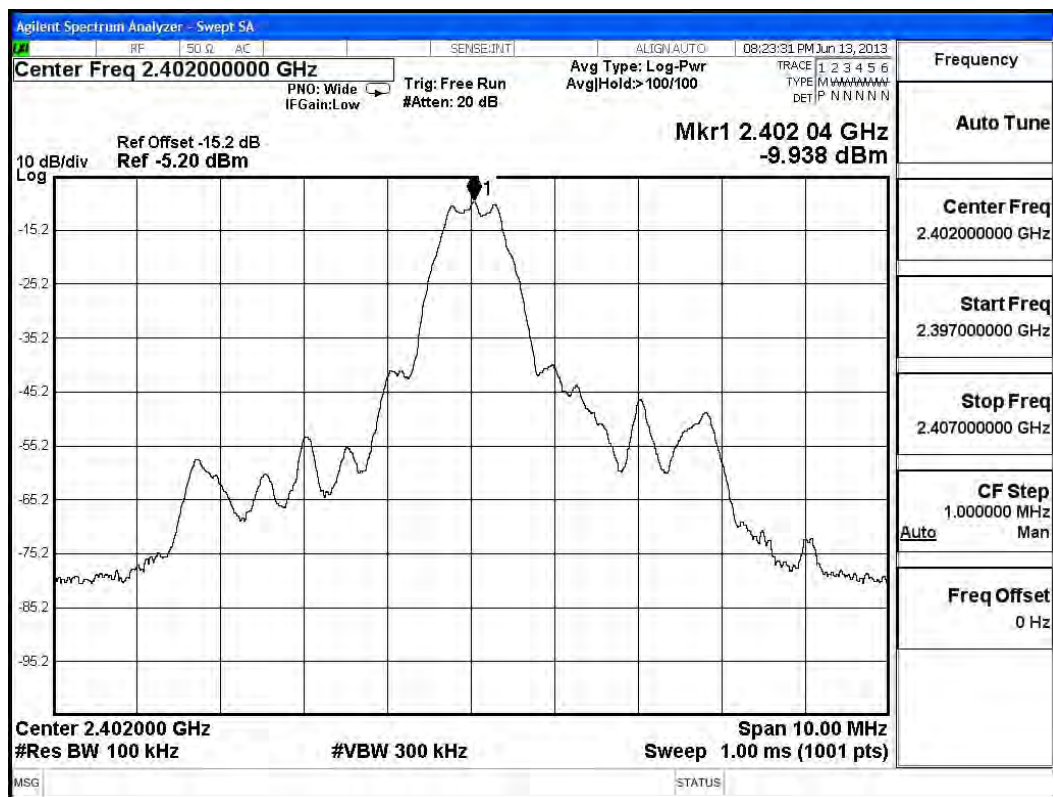
± 1.27 dB

12.6. Test Result of Power Density

Product : TABLET PC
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - BLE (GFSK) (2402MHz)

| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 00 | 2402 | -9.938 | < 8dBm | Pass |

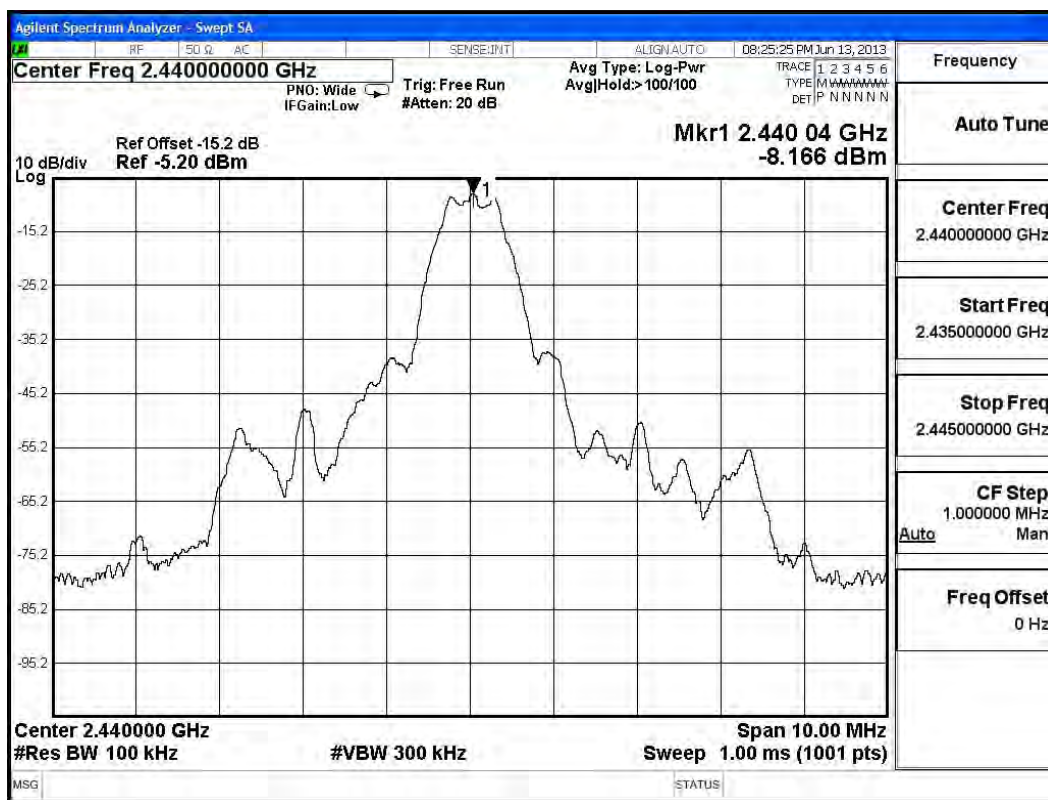
Figure Channel 00:



Product : TABLET PC
 Test Item : Power Density Data
 Test Site : No.3OATS
 Test Mode : Mode 3: Transmit - BLE (GFSK) (2440MHz)

| Channel No. | Frequency (MHz) | Measurement Level (dBm) | Required Limit (dBm) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 19 | 2440 | -8.166 | < 8dBm | Pass |

Figure Channel 19:



Product : TABLET PC
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - BLE (GFSK) (2480MHz)

| Channel No. | Frequency (MHz) | Measurement Level (dBm) | Required Limit (dBm) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 39 | 2480 | -6.998 | < 8dBm | Pass |

Figure Channel 39:



13. EMI Reduction Method During Compliance Testing

No modification was made during testing.