

COMERCIALIZADORA MILENIO SA DE CV

POLAROID PMID705GTV

Main Model: PMID705GTV

Serial Model: N/A

May 09, 2014




Report No.: 14070068-FCC-R2

(This report supersedes NONE)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:

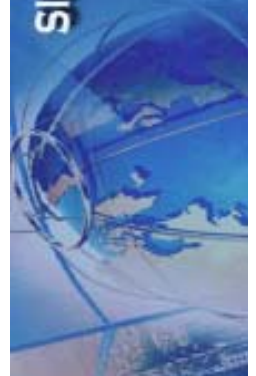
| | | |
|---|---|---|
|  |  |  |
| Kahn Yang Compliance Engineer | Alex Liu Technical Manager | |

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Test result presented in this test report is applicable to the representative sample only.

RF Test Report

To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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1 EXECUTIVE SUMMARY & EUT INFORMATION

The purpose of this test programme was to demonstrate compliance of the **COMERCIALIZADORA MILENIO SA DE CV, POLAROID PMID705GTV** and model: **PMID705GTV** against the current Stipulated Standards. The **POLAROID PMID705GTV** has demonstrated compliance with the **FCC 15.247: 2013, ANSI C63.4: 2009**.

EUT Information

| | |
|--|--|
| EUT Description | : POLAROID PMID705GTV |
| Main Model | : PMID705GTV |
| Serial Model | : N/A |
| Antenna Gain | UMTS-FDD Band V/GPRS850: 2 dBi UMTS-FDD Band II/GPRS1900: 2 dBi WIFI: 1.5dBi Bluetooth: 1.5 dBi |
| Input Power | Battery: Model: 3057122P Spec: 3.7V 2500mAh Limited charger voltage: 4.2V Adapter: Model: TS121X150-0502USS Input: 100-240V; 50/60Hz 0.45A Output: 5.0V; 1.5A |
| Classification Per Stipulated Test Standard | : FCC 15.247: 2013, ANSI C63.4: 2009 |

Note:

The models of type A and type B, the difference is the SIM card slot. This was blocked by plastic cover. See Page 69. Details please refer to Declaration Letter.

2 TECHNICAL DETAILS

| | |
|--|--|
| Purpose | Compliance testing of POLAROID PMID705GTV with stipulated standard |
| Applicant / Client | COMERCIALIZADORA MILENIO SA DE CV Vasco de Quiroga 3900 Office 704, Mexico City 05300, Mexico |
| Manufacturer | Megatron Technology Corporation Limited Room No. 1605, Building A, T-Share Jinniu Square (T-Share International Centre), Taoyuan Road, Nanshan District, Shenzhen, Guangdong, China 518033 |
| Laboratory performing the tests | SIEMIC (Shenzhen - China) Laboratories Zone A, Floor 1, Building 2, Wan Ye Long Technology Park, South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong, China Tel: +86-0755-2601 4629 / 2601 4953 Fax: +86-0755-2601 4953-810 Email: China@siemic.com.cn |
| Test report reference number | 14070068-FCC-R2 |
| Date EUT received | March 17, 2014 |
| Standard applied | FCC 15.247: 2013, ANSI C63.4: 2009 |
| Dates of test (from – to) | March 18 to May 08, 2014 |
| No of Units | #1 |
| Equipment Category | DSS |
| Trade Name | POLAROID JET 705 |
| RF Operating Frequency (ies) | GPRS850 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHz GPRS1900 TX : 1850.2 ~ 1909.8 MHz; RX : 1930.2 ~ 1989.8 MHz UMTS-FDD Band V TX : 826.4 ~ 846.6 MHz; RX : 871.4 ~ 891.6 MHz UMTS-FDD Band II TX : 1852.4 ~ 1907.6 MHz; RX : 1932.4 ~ 1987.6 MHz 802.11b/g/n: 2412~2462 MHz Bluetooth: 2402-2480 MHz |
| Number of Channels | 299CH (GPRS1900) and 124CH (GPRS850) UMTS-FDD Band V : 102CH UMTS-FDD Band II : 277CH 802.11b/g/n: 11CH Bluetooth: 79CH |
| Modulation | GPRS: GMSK UMTS-FDD: QPSK 802.11b/g/n: DSSS/OFDM Bluetooth: GFSK& $\pi/4$DQPSK&8DPSK |
| GPRS Multi-slot class | N/A |
| FCC ID | 2ABD2PMID705GTV |

3 MODIFICATION

NONE

4 TEST SUMMARY

The product was tested in accordance with the following specifications.
 All testing has been performed according to below product classification:

Spread Spectrum System/Device

Test Results Summary

| Test Standard | Description | Product Class | Pass / Fail |
|------------------------------|--------------------------------|---------------|-------------|
| §15.247(i), §2.1093 | RF Exposure | See Above | Pass |
| §15.203 | Antenna Requirement | See Above | Pass |
| §15.207(a) | AC Line Conducted Emissions | See Above | Pass |
| §15.205, §15.209, §15.247(d) | Radiated Emissions | See Above | Pass |
| §15.247(a)(1) | 20 dB Bandwidth | See Above | Pass |
| §15.247(a)(1) | Channel Separation | See Above | Pass |
| §15.247(a)(1)(iii) | Time of Occupancy (Dwell Time) | See Above | Pass |
| §15.247(a)(1)(iii) | Quantity of Hopping Channel | See Above | Pass |
| §15.247(b)(1) | Peak Output Power | See Above | Pass |
| §15.247(d) | Band Edge | See Above | Pass |

5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

5.1 §15.247 (i) and §2.1093 – RF Exposure

Standard Requirement:

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}^{16} \text{ where}$$

- $f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

Two antennas are available for the EUT (GSM antenna, Bluetooth/WIFI antenna).

The maximum average output power(turn-up power) in low channel of Bluetooth is 0.588 dBm= 1.14 mW

The calculation results= $1.14 / 5 * \sqrt{2.402} = 0.35 < 3$

The maximum average output power(turn-up power) in middle channel of Bluetooth is 1.590 dBm=1.44 mW

The calculation results= $1.44 / 5 * \sqrt{2.441} = 0.45 < 3$

The maximum average output power(turn-up power) in high channel of Bluetooth is 1.703 dBm= 1.48 mW

The calculation results= $1.48 / 5 * \sqrt{2.480} = 0.47 < 3$

According to KDB 447498, no stand-alone required for Bluetooth antenna, and no simultaneous SAR measurement is required, please refer to SAR report.

Test Result: Pass

5.2 §15.203 – Antenna Requirement

Standard Requirement:

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has 2 antennas: a PIFA antenna for Bluetooth/WIFI, the gain is 1.5 dBi for Bluetooth/WIFI.
a PIFA antenna for GSM and UMTS, the gain is 2 dBi for UMTS-FDD BandV/GSM850
and 2 dBi for UMTS-FDD Band II / PCS1900 .

Which in accordance to section 15.203, please refer to the internal photos.

Test Result: Pass

5.3 §15.207 (a) – AC Line Conducted Emissions

Standard Requirement:

| Frequency of emission (MHz) | Conducted limit (dBμV) | |
|-----------------------------|------------------------|-----------|
| | Quasi-peak | Average |
| 0.15–0.5 | 66 to 56* | 56 to 46* |
| 0.5–5 | 56 | 46 |
| 5–30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

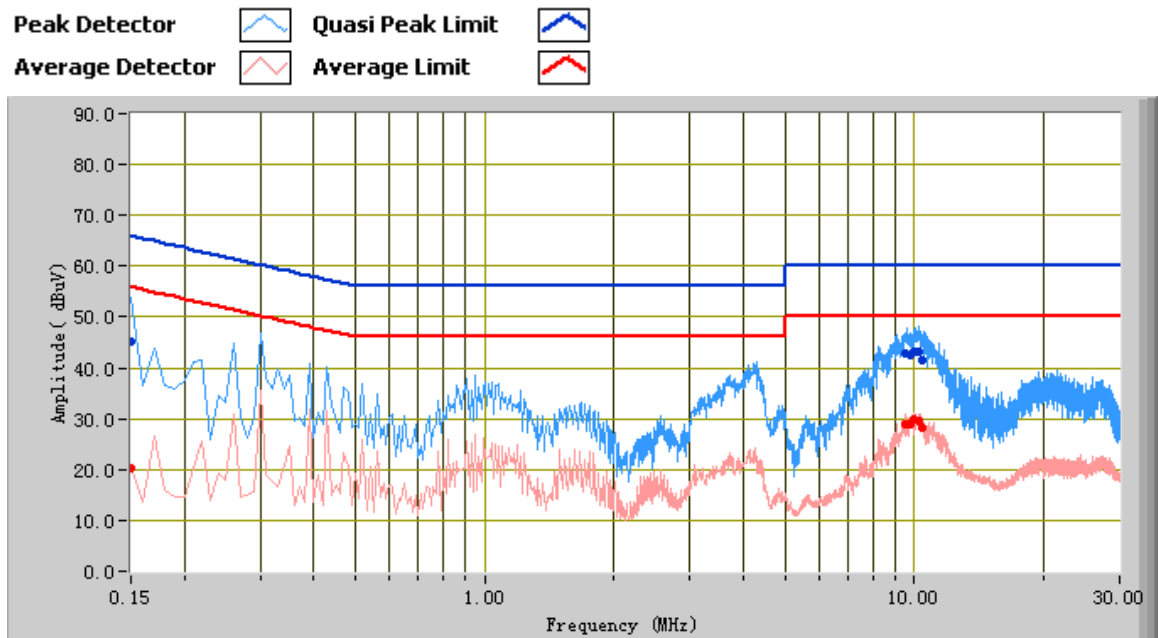
Procedures:

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR and Average detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Conducted Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 9kHz – 30MHz (Average & Quasi-peak) is ±3.5dB.
4. Environmental Conditions

| | |
|----------------------|----------|
| Temperature | 22°C |
| Relative Humidity | 54% |
| Atmospheric Pressure | 1009mbar |
5. Test date : May 08, 2014
Tested By : Kahn Yang

Test Result: Pass

| | |
|-------------------|---|
| Test Mode: | Charging & GFSK Transmitting(Worse Case) |
|-------------------|---|

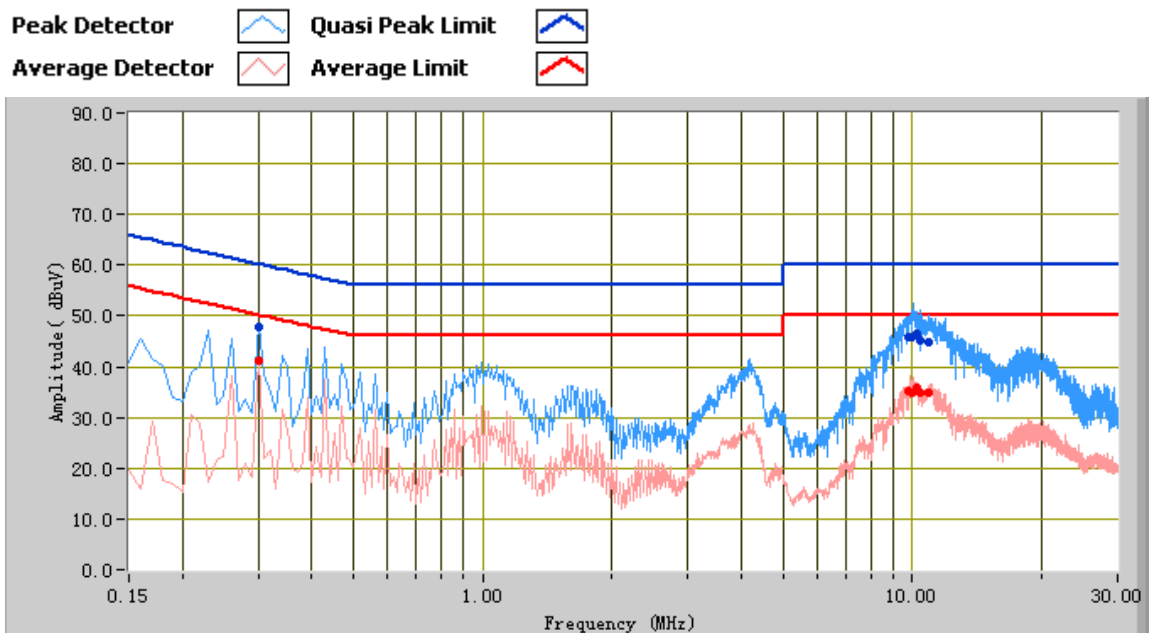


Test Data

Phase Line Plot at 120Vac, 60Hz

| Frequency (MHz) | Quasi Peak (dBuV) | Limit (dBuV) | Margin (dB) | Average (dBuV) | Limit (dBuV) | Margin (dB) | Factors (dB) |
|-----------------|-------------------|--------------|-------------|----------------|--------------|-------------|--------------|
| 0.15 | 45.25 | 66.00 | -20.75 | 20.28 | 56.00 | -35.72 | 12.49 |
| 10.22 | 43.11 | 60.00 | -16.89 | 29.68 | 50.00 | -20.32 | 12.04 |
| 9.98 | 43.12 | 60.00 | -16.88 | 29.76 | 50.00 | -20.24 | 11.98 |
| 9.50 | 42.70 | 60.00 | -17.30 | 28.93 | 50.00 | -21.07 | 11.89 |
| 10.46 | 41.51 | 60.00 | -18.49 | 28.22 | 50.00 | -21.78 | 12.10 |
| 9.74 | 42.53 | 60.00 | -17.47 | 28.96 | 50.00 | -21.04 | 11.95 |

Test Mode: Charging & GFSK Transmitting (Worse Case)



Test Data

Phase Neutral Plot at 120Vac, 60Hz

| Frequency (MHz) | Quasi Peak (dBuV) | Limit (dBuV) | Margin (dB) | Average (dBuV) | Limit (dBuV) | Margin (dB) | Factors (dB) |
|-----------------|-------------------|--------------|-------------|----------------|--------------|-------------|--------------|
| 9.98 | 45.73 | 60.00 | -14.27 | 34.76 | 50.00 | -15.24 | 11.98 |
| 10.22 | 46.46 | 60.00 | -13.54 | 35.95 | 50.00 | -14.05 | 12.04 |
| 0.30 | 47.88 | 60.24 | -12.36 | 41.07 | 50.24 | -9.17 | 11.50 |
| 10.46 | 45.04 | 60.00 | -14.96 | 34.77 | 50.00 | -15.23 | 12.10 |
| 9.74 | 45.98 | 60.00 | -14.02 | 35.20 | 50.00 | -14.80 | 11.95 |
| 10.94 | 44.98 | 60.00 | -15.02 | 34.91 | 50.00 | -15.09 | 12.21 |

5.4 §15.209, §15.205 & §15.247(d) - Spurious Emissions

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Radiated Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 1GHz (3m & 10m) & 1GHz above (3m) is +5.6/-4.5dB.
4. Environmental Conditions

| | |
|----------------------|----------|
| Temperature | 22°C |
| Relative Humidity | 54% |
| Atmospheric Pressure | 1009mbar |
5. Test date : May 08, 2014
Tested By : Kahn Yang

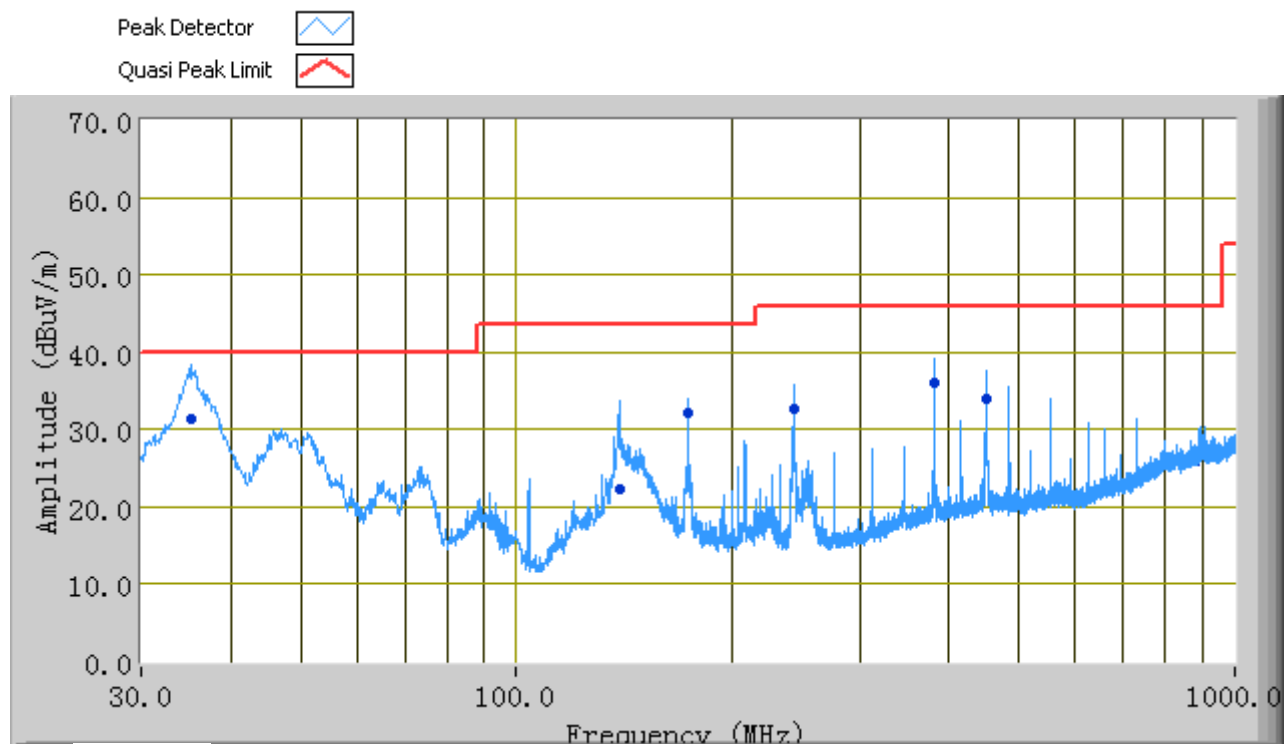
Standard Requirement:

The emissions from the Low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges.

Test Result: Pass

Test Mode: Charging & GFSK Transmitting(Worse Case)

Below 1GHz



Test Data

Horizontal & Vertical Polarity Plot @3m

| Frequency (MHz) | Quasi Peak (dBuV/m) | Azimuth | Polarity(H/V) | Height (cm) | Factors (dB) | Limit (dBuV) | Margin (dB) |
|-----------------|---------------------|---------|---------------|-------------|--------------|--------------|-------------|
| 241.38 | 32.91 | 217.00 | H | 124.00 | -7.61 | 46.00 | -13.09 |
| 35.26 | 31.35 | 250.00 | H | 109.00 | -4.33 | 40.00 | -8.65 |
| 381.25 | 35.99 | 197.00 | H | 174.00 | -3.69 | 46.00 | -10.01 |
| 450.57 | 33.97 | 161.00 | H | 197.00 | -2.47 | 46.00 | -12.03 |
| 173.34 | 32.22 | 257.00 | H | 101.00 | -8.63 | 43.52 | -11.30 |
| 138.93 | 22.32 | 270.00 | V | 100.00 | -7.02 | 43.52 | -21.20 |

| | |
|-------------------|---|
| Test Mode: | Charging & GFSK Transmitting |
|-------------------|---|

Above 1 GHz

Note: Other Bluetooth modes were verified; only the result of worst case DH5 mode was presented.

Low Channel (2402 MHz)

| Frequency (MHz) | S.A. Reading (dBμV) | Detector (PK/AV) | Polarity (H/V) | Ant. Factor (dB/m) | Cable Loss (dB) | Pre-Amp. Gain (dB) | Cord. Amp. (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|---------------------|------------------|----------------|--------------------|-----------------|--------------------|---------------------|----------------|-------------|
| 4804 | 35.37 | AV | V | 33.83 | 4.87 | 24 | 50.07 | 54 | -3.93 |
| 4804 | 36.01 | AV | H | 33.83 | 4.87 | 24 | 50.71 | 54 | -3.29 |
| 4804 | 45.72 | PK | V | 33.83 | 4.87 | 24 | 60.42 | 74 | -13.58 |
| 4804 | 46.18 | PK | H | 33.83 | 4.87 | 24 | 60.88 | 74 | -13.12 |

Middle Channel (2441 MHz)

| Frequency (MHz) | S.A. Reading (dBμV) | Detector (PK/AV) | Polarity (H/V) | Ant. Factor (dB/m) | Cable Loss (dB) | Pre-Amp. Gain (dB) | Cord. Amp. (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|---------------------|------------------|----------------|--------------------|-----------------|--------------------|---------------------|----------------|-------------|
| 4880 | 35.28 | AV | V | 33.86 | 4.87 | 24 | 50.01 | 54 | -3.99 |
| 4880 | 35.96 | AV | H | 33.86 | 4.87 | 24 | 50.69 | 54 | -3.31 |
| 4880 | 45.99 | PK | V | 33.86 | 4.87 | 24 | 60.72 | 74 | -13.28 |
| 4880 | 45.87 | PK | H | 33.86 | 4.87 | 24 | 60.6 | 74 | -13.4 |

High Channel (2480 MHz)

| Frequency (MHz) | S.A. Reading (dBμV) | Detector (PK/AV) | Polarity (H/V) | Ant. Factor (dB/m) | Cable Loss (dB) | Pre-Amp. Gain (dB) | Cord. Amp. (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|---------------------|------------------|----------------|--------------------|-----------------|--------------------|---------------------|----------------|-------------|
| 4960 | 35.53 | AV | V | 33.9 | 4.87 | 24 | 50.3 | 54 | -3.7 |
| 4960 | 36.12 | AV | H | 33.9 | 4.87 | 24 | 50.89 | 54 | -3.11 |
| 4960 | 45.66 | PK | V | 33.9 | 4.87 | 24 | 60.43 | 74 | -13.57 |
| 4960 | 45.53 | PK | H | 33.9 | 4.87 | 24 | 60.3 | 74 | -13.7 |

§15.247(a) (1)-Channel Separation

1. Conducted Measurement
EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyzer was connected to the antenna terminal.
2. Environmental Conditions

| | |
|----------------------|----------|
| Temperature | 22°C |
| Relative Humidity | 50% |
| Atmospheric Pressure | 1009mbar |
3. Conducted Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is $\pm 1.5\text{dB}$.
4. Test date : March 20, 2014
Tested By : Kahn Yang

Standard Requirement:

According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Procedures:

1. Place the EUT on the table and set it in hopping function transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = middle of hopping channel.
4. Set the spectrum analyzer as Resolution (or IF) Bandwidth (RBW) $\geq 1\%$ of the span, Video (or Average) Bandwidth (VBW) $\geq \text{RBW}$, Sweep = auto, Detector function = peak, Trace = max hold.
5. Max hold, mark 2 peaks of hopping channel and record the 2 peaks frequency.

Test Result: Pass

Please refer to the following plots.

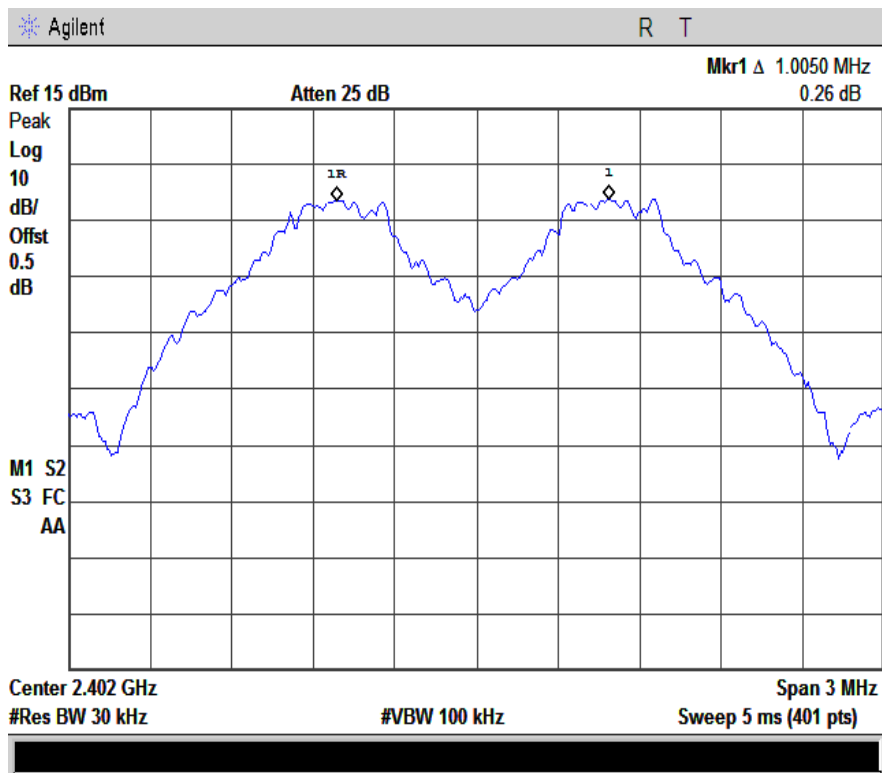
Note:

0: Low Channel
39: Middle Channel
78: High Channel

| | |
|-------------------|--------------------------|
| Test Mode: | GFSK Transmitting |
|-------------------|--------------------------|

| Channel | Channel Frequency (MHz) | Channel Separation (MHz) | Limit (MHz) | Result |
|-------------------|-------------------------|--------------------------|-------------|--------|
| Low Channel | 2402 | 1.005 | 0.689 | Pass |
| Adjacency Channel | 2403 | | | |
| Mid Channel | 2440 | 1.005 | 0.689 | Pass |
| Adjacency Channel | 2441 | | | |
| High Channel | 2480 | 1.005 | 0.688 | Pass |
| Adjacency Channel | 2479 | | | |

Please refer to the following plots.



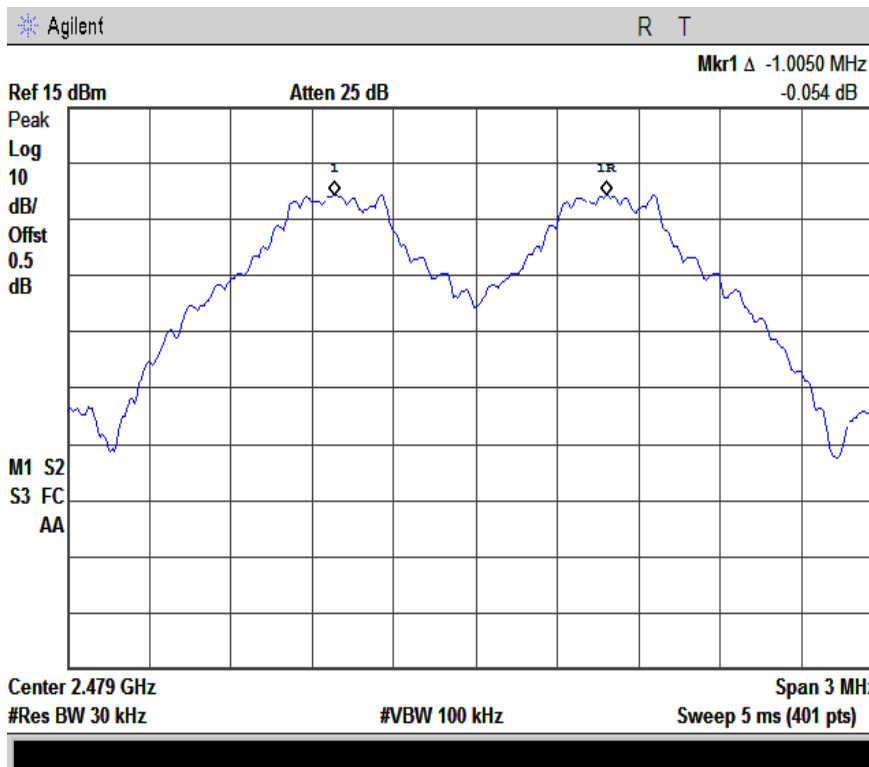
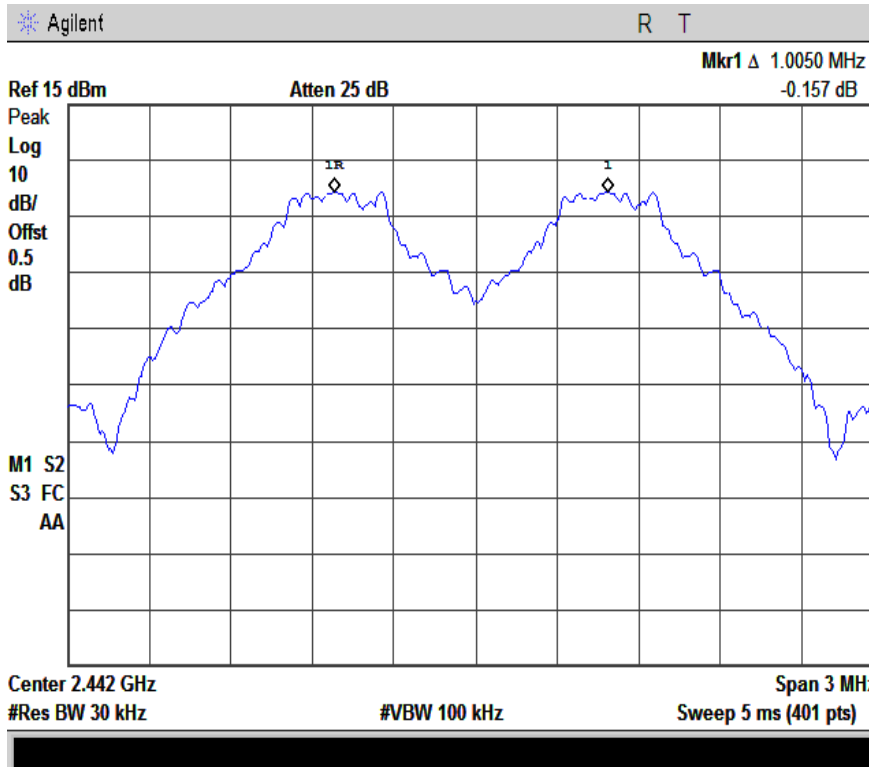


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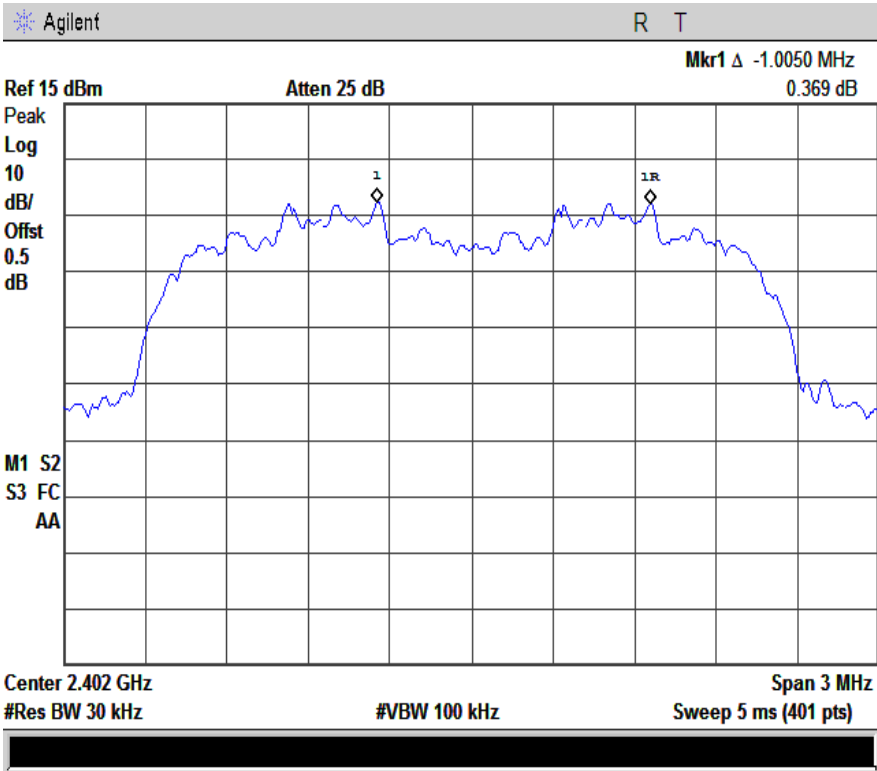
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| | |
|------------|------------------------------|
| Test Mode: | π / 4 DQPSK Transmitting |
|------------|------------------------------|

| Channel | Channel Frequency (MHz) | Channel Separation (MHz) | Limit (MHz) | Result |
|-------------------|-------------------------|--------------------------|-------------|--------|
| Low Channel | 2402 | 1.005 | 0.879 | Pass |
| Adjacency Channel | 2403 | | | |
| Mid Channel | 2440 | 1.005 | 0.875 | Pass |
| Adjacency Channel | 2441 | | | |
| High Channel | 2480 | 1.005 | 0.871 | Pass |
| Adjacency Channel | 2479 | | | |

Please refer to the following plots.



2M-0

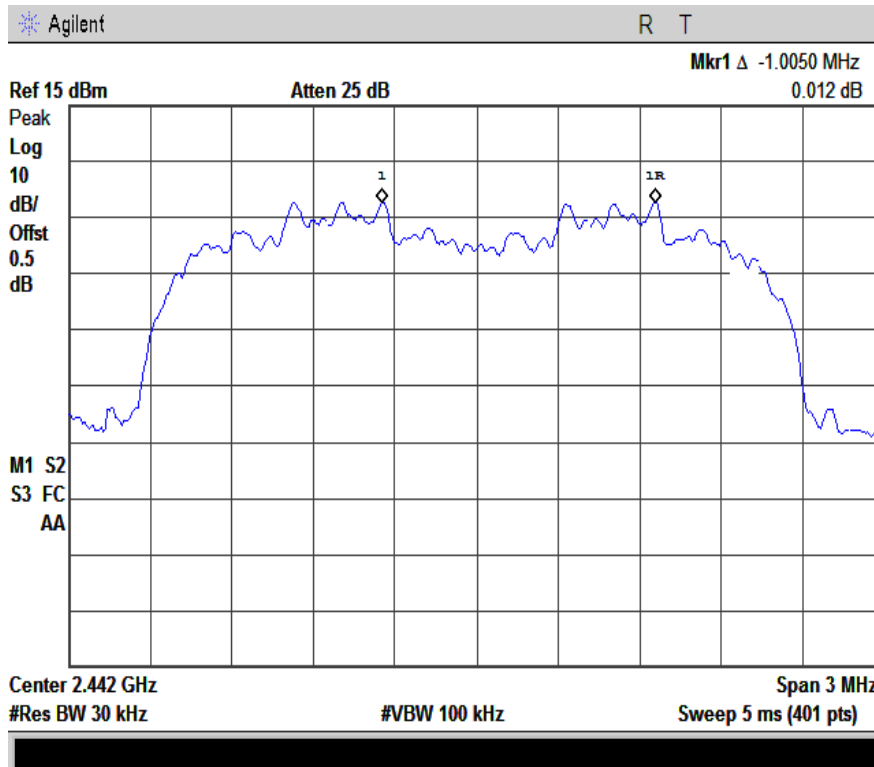


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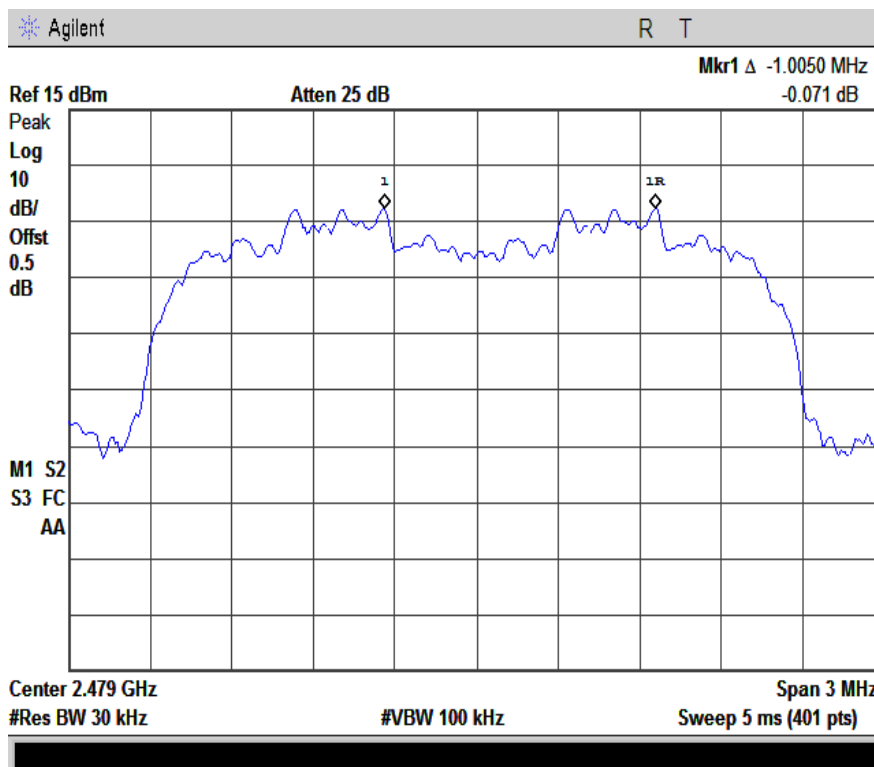
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2M-39

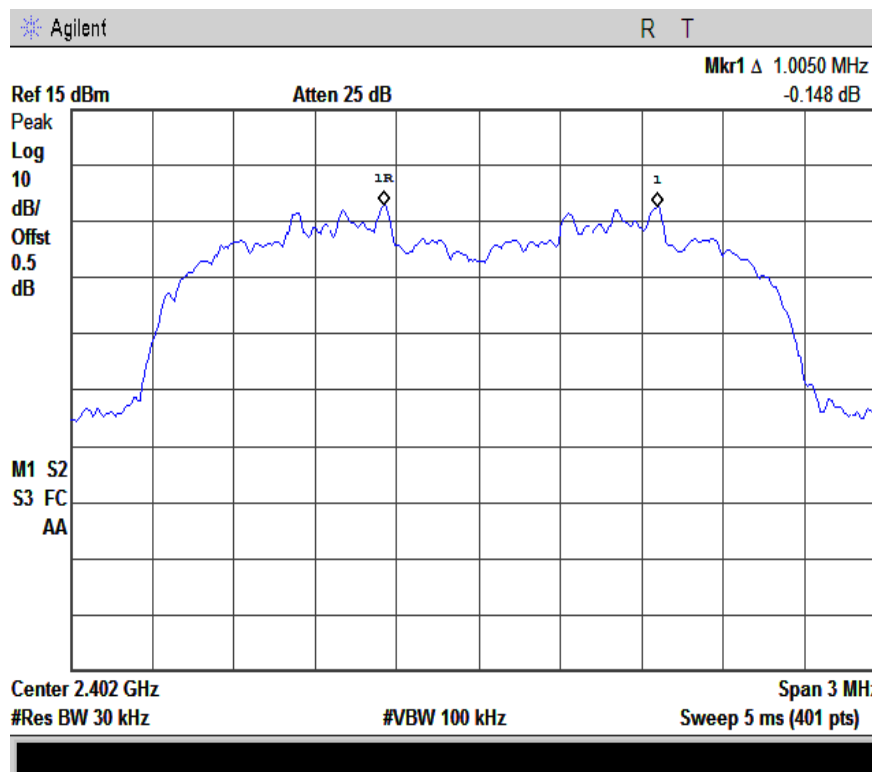


2M-78

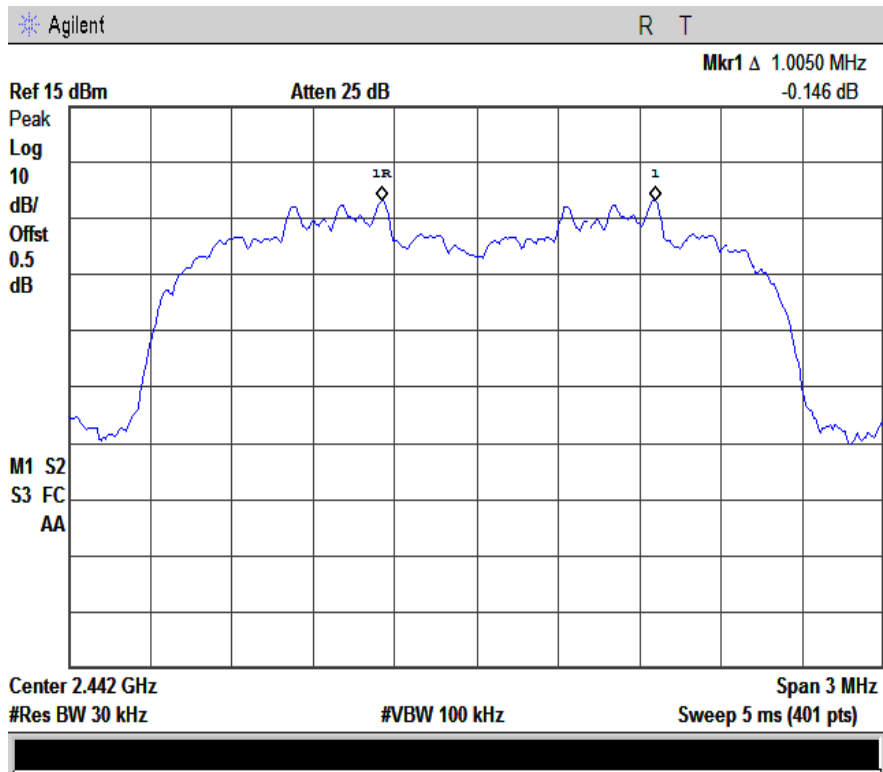
| | |
|-------------------|---------------------------|
| Test Mode: | 8DPSK Transmitting |
|-------------------|---------------------------|

| Channel | Channel Frequency (MHz) | Channel Separation (MHz) | Limit (MHz) | Result |
|-------------------|-------------------------|--------------------------|-------------|--------|
| Low Channel | 2402 | 1.005 | 0.876 | Pass |
| Adjacency Channel | 2403 | | | |
| Mid Channel | 2440 | 1.005 | 0.871 | Pass |
| Adjacency Channel | 2441 | | | |
| High Channel | 2480 | 1.005 | 0.871 | Pass |
| Adjacency Channel | 2479 | | | |

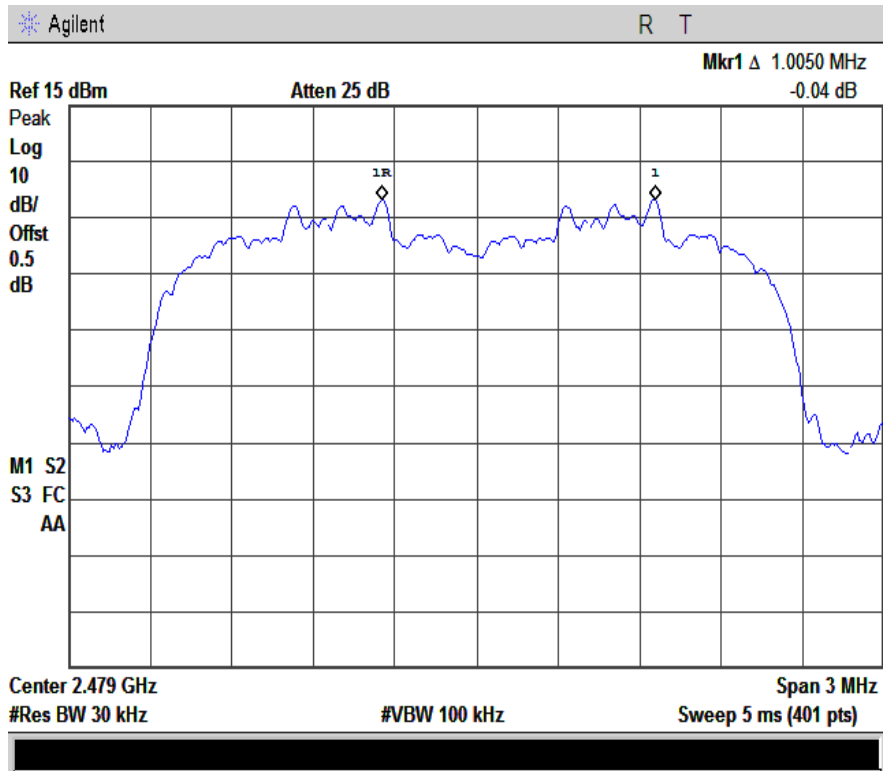
Please refer to the following plots.



3M-0



3M-39



3M-78

§15.247(a) (1) – 20dB Bandwidth

1. Conducted Measurement
EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyzer was connected to the antenna terminal.
2. Environmental Conditions

| | |
|----------------------|----------|
| Temperature | 23°C |
| Relative Humidity | 52% |
| Atmospheric Pressure | 1010mbar |
3. Conducted Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is $\pm 1.5\text{dB}$.
4. Test date : March 19, 2014
Tested By : Kahn Yang

Standard Requirement:

According to §15.247(a)(1), 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.

Procedures:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel, RBW $\geq 1\%$ of the 20 dB bandwidth, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold.
4. Set the measured low, middle and high frequency and test 20dB bandwidth with spectrum analyzer.

Test Result: Pass

Please refer to the following plots.

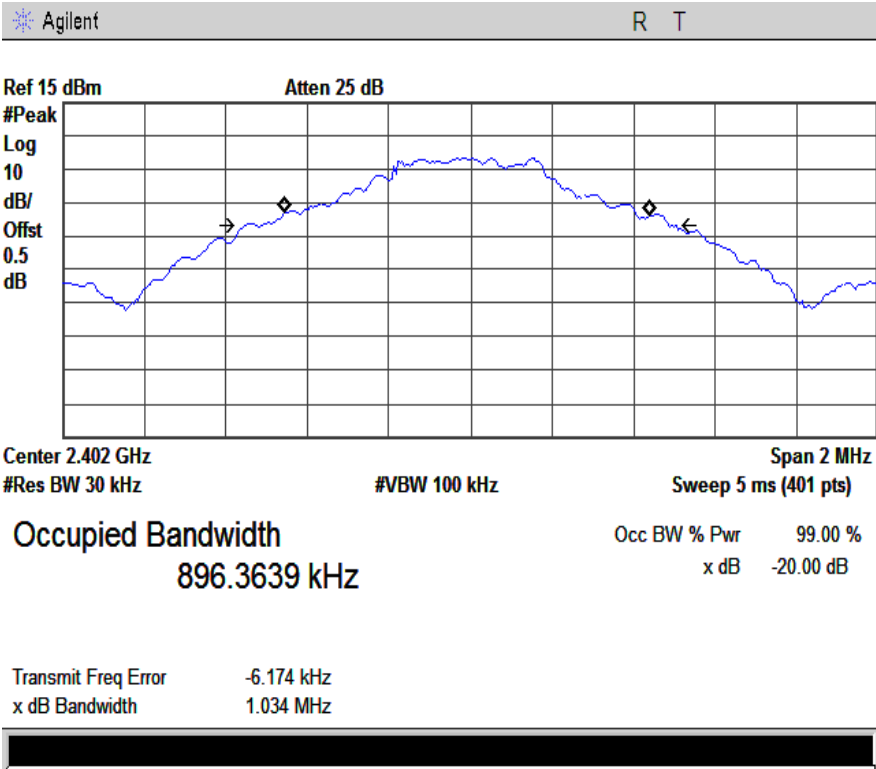
Note:

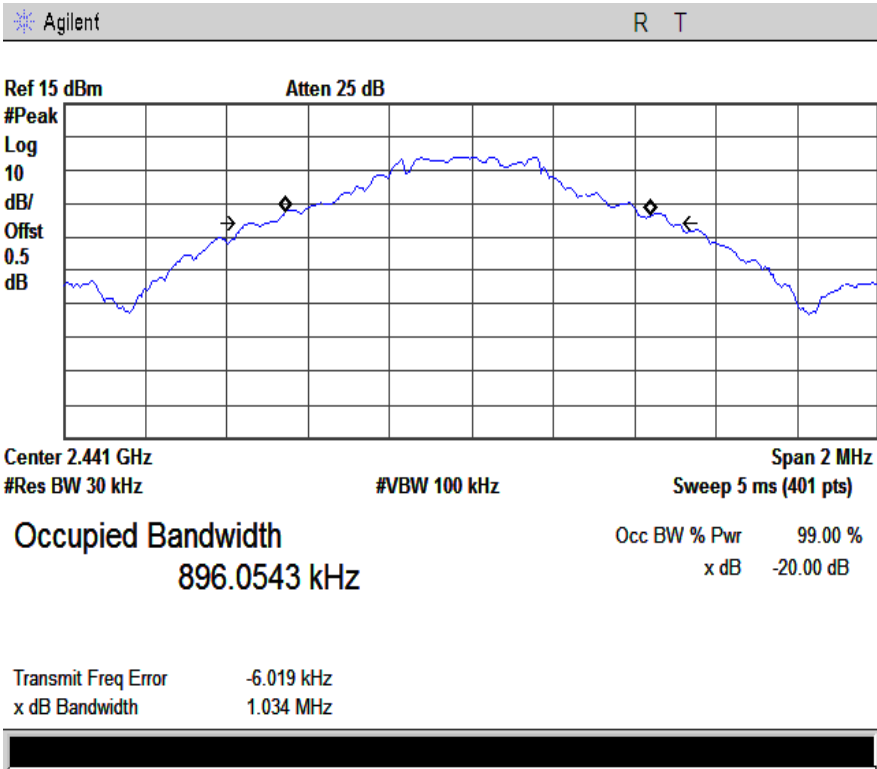
0: Low Channel
39: Middle Channel
78: High Channel

| | |
|------------|-------------------|
| Test Mode: | GFSK Transmitting |
|------------|-------------------|

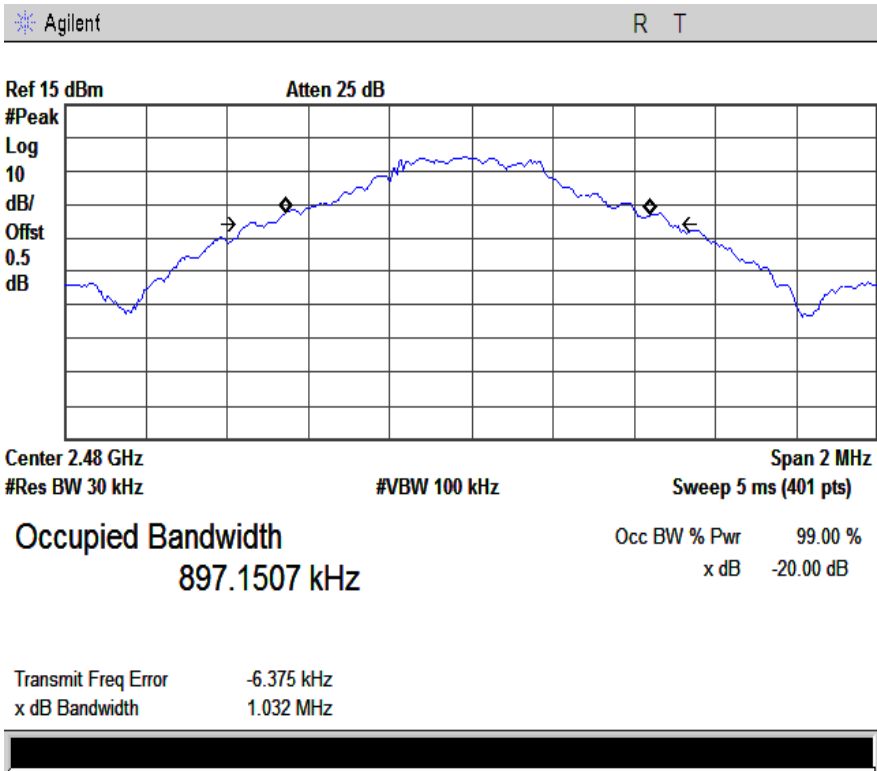
| Channel | Frequency (MHz) | 20 dB Bandwidth (MHz) |
|---------|-----------------|-----------------------|
| Low | 2402 | 1.034 |
| Middle | 2441 | 1.034 |
| High | 2480 | 1.032 |

Please refer to the following plots.





1M-39

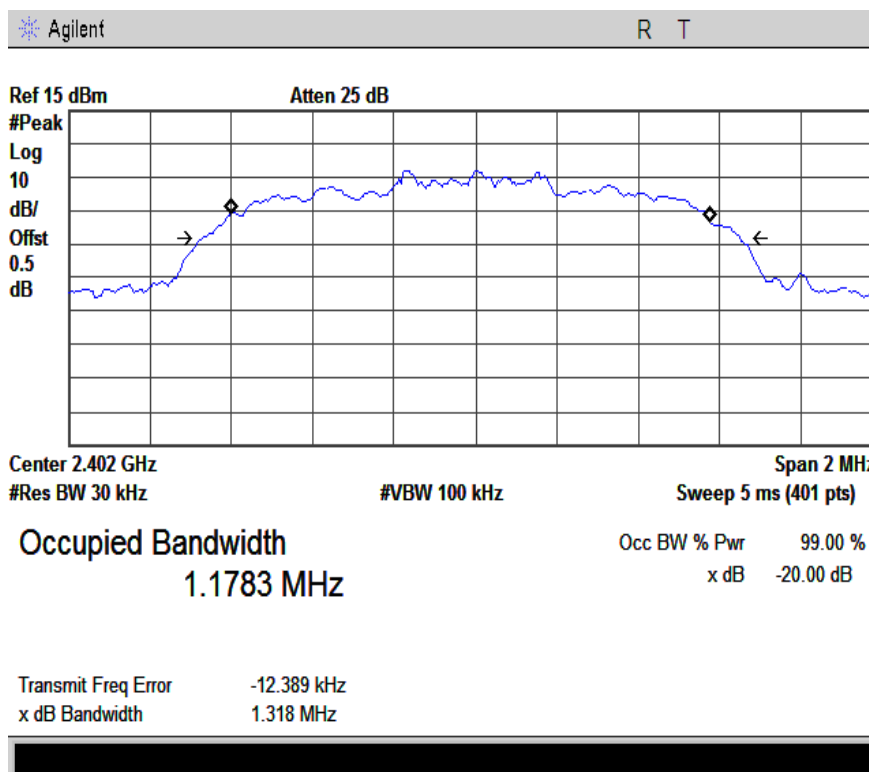


1M-78

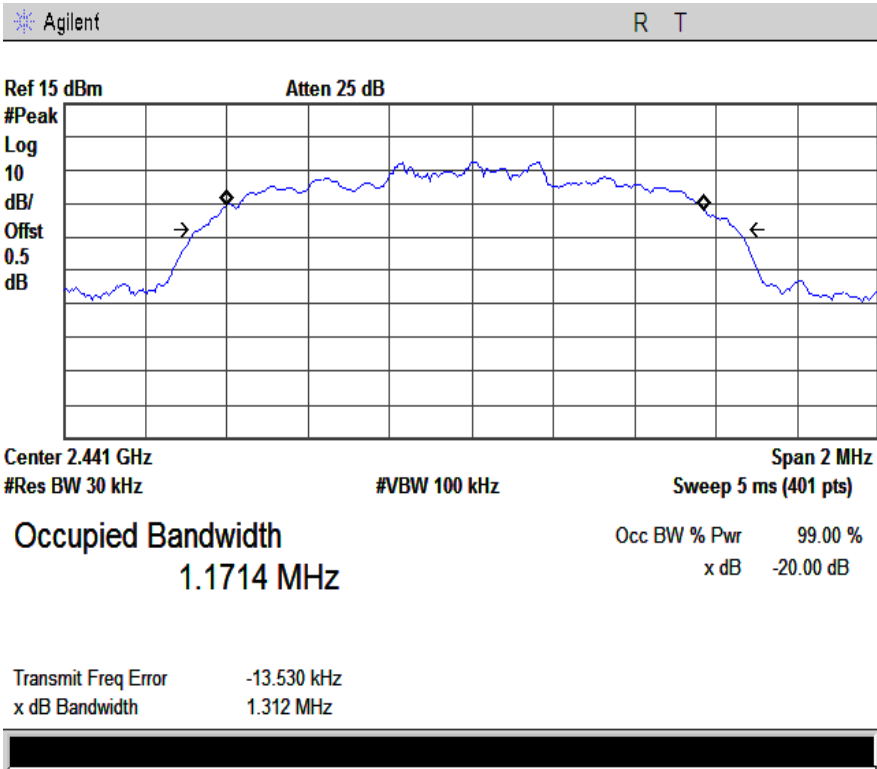
| | |
|------------|----------------------------|
| Test Mode: | π /4DQPSK Transmitting |
|------------|----------------------------|

| Channel | Frequency (MHz) | 20 dB Bandwidth (MHz) |
|---------|-----------------|-----------------------|
| Low | 2402 | 1.318 |
| Middle | 2441 | 1.312 |
| High | 2480 | 1.306 |

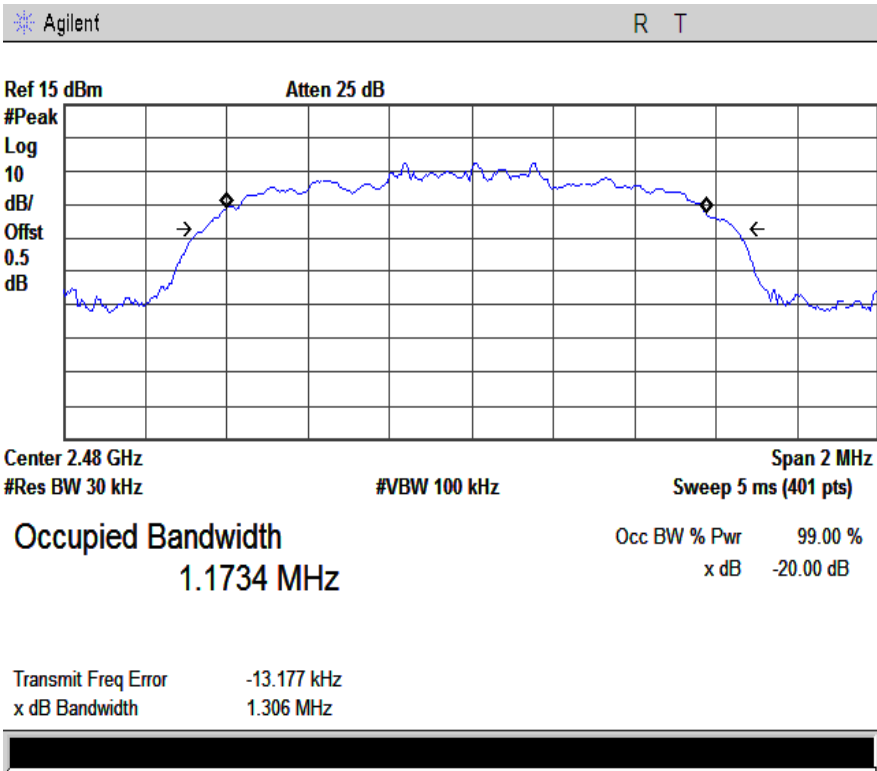
Please refer to the following plots.



2M-0



2M-39

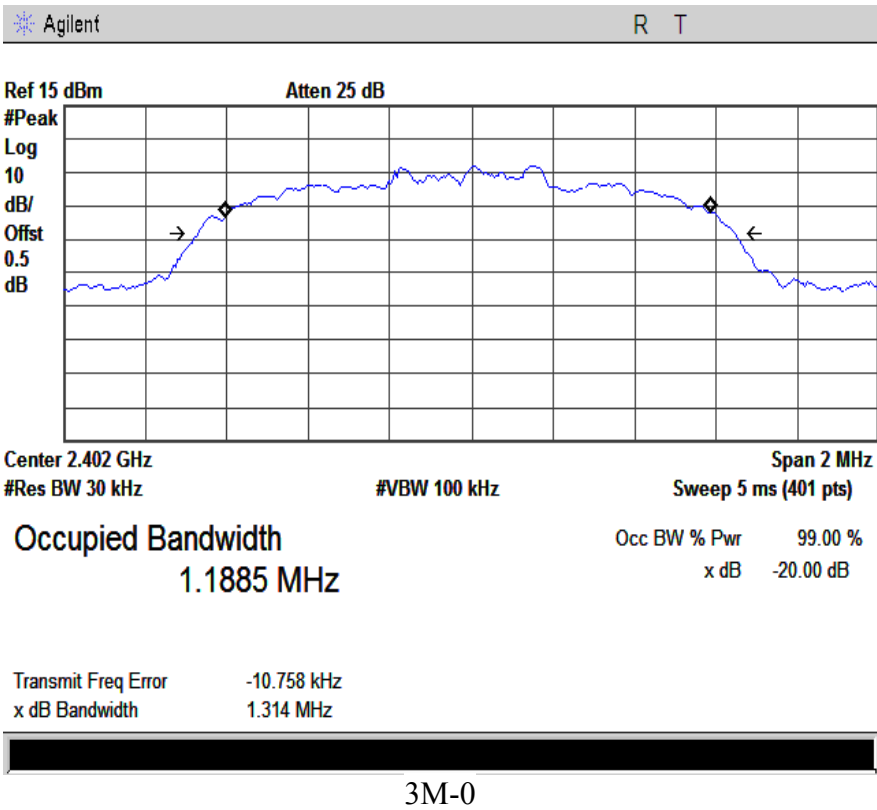


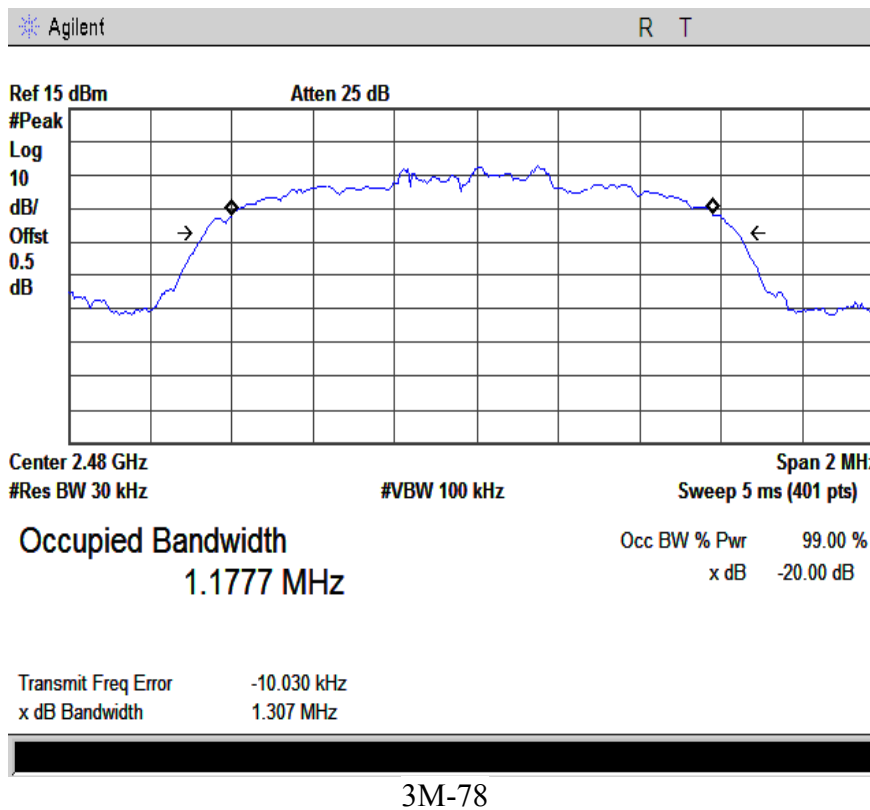
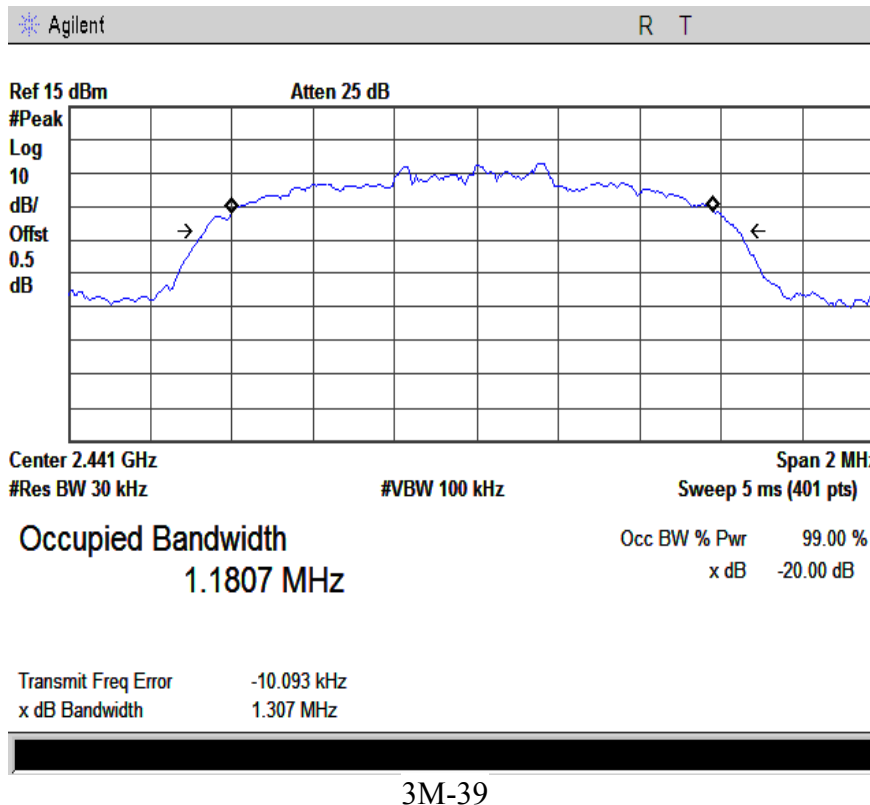
2M-78

| | |
|-------------------|---------------------------|
| Test Mode: | 8DPSK Transmitting |
|-------------------|---------------------------|

| Channel | Frequency (MHz) | 20 dB Bandwidth (MHz) |
|---------|-----------------|-----------------------|
| Low | 2402 | 1.314 |
| Middle | 2441 | 1.307 |
| High | 2480 | 1.307 |

Please refer to the following plots.





5.5 §15.247(a) (1) (iii)-Number of Hopping Channels

1. Conducted Measurement
EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is $\pm 1.5\text{dB}$.
3. Environmental Conditions

| | |
|----------------------|----------|
| Temperature | 22°C |
| Relative Humidity | 50% |
| Atmospheric Pressure | 1009mbar |
4. Test date : March 20, 2014
Tested By : Kahn Yang

Standard Requirement:

According to §15.247(a)(1)(iii), Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

Procedures:

1. Place the EUT on the table and set it in hopping function transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as Start=2400MHz, Stop = 2483.5MHz, Span = the frequency band of operation, RBW $\geq 1\%$ of the span, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold.
4. Count the quantity of peaks to get the number of hopping channels.

Test Result: Pass

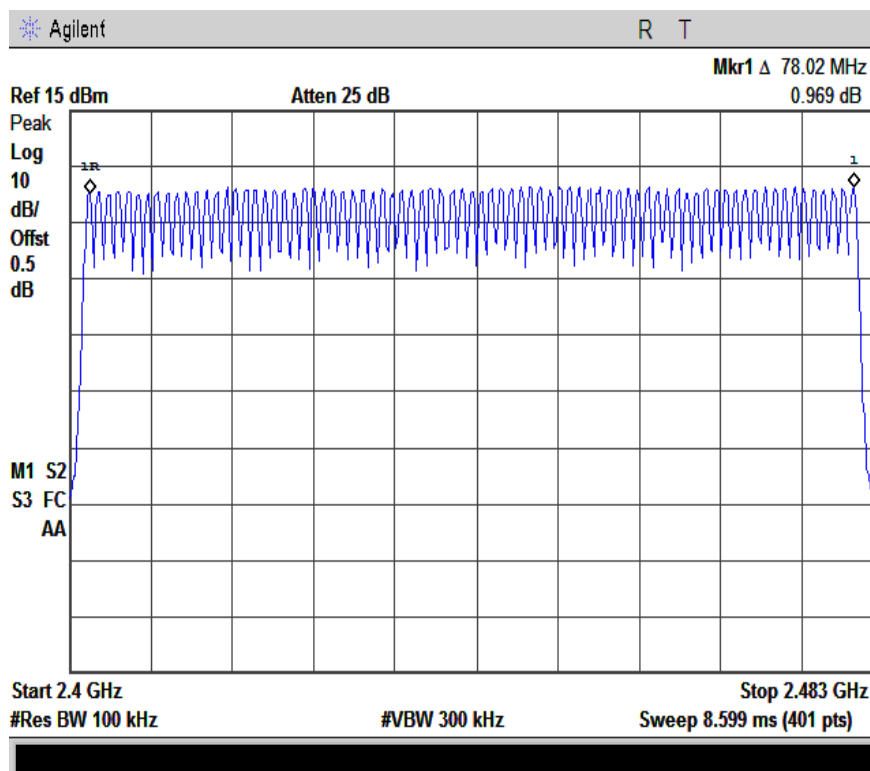
Please refer to following tables and plots

| | |
|-------------------|--|
| Test Mode: | Hopping Mode With GFSK Modulation |
|-------------------|--|

| Frequency Range (MHz) | Number of Hopping Channels | Limit |
|--------------------------|-------------------------------|-----------|
| 2400-2483.5 | 79 | ≥ 15 |

Please refer to following tables and plots

Number of Hopping Channels



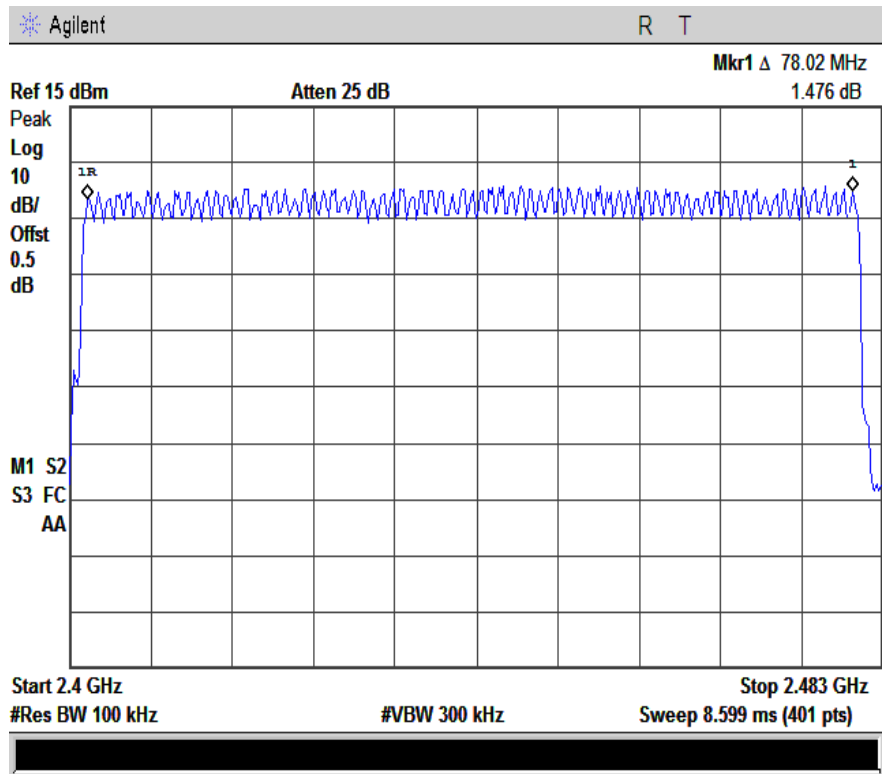
1M

| | |
|-------------------|--|
| Test Mode: | Hopping Mode With π /4DQPSK Modulation |
|-------------------|--|

| Frequency Range (MHz) | Number of Hopping Channels | Limit |
|-----------------------|----------------------------|-----------|
| 2400-2483.5 | 79 | ≥ 15 |

Please refer to following tables and plots

Number of Hopping Channels



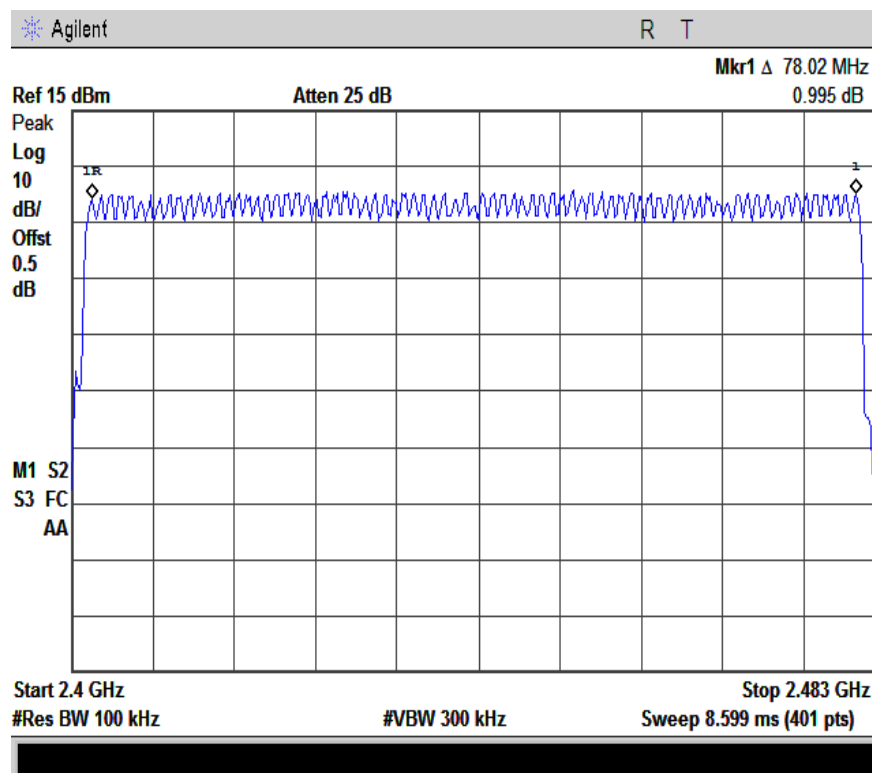
2M

| | |
|-------------------|---|
| Test Mode: | Hopping Mode With 8DPSK Modulation |
|-------------------|---|

| Frequency Range (MHz) | Number of Hopping Channels | Limit |
|--------------------------|-------------------------------|-----------|
| 2400-2483.5 | 79 | ≥ 15 |

Please refer to following tables and plots

Number of Hopping Channels



3M

5.6 §15.247(a) (1) (iii) -Time of Occupancy (Dwell Time)

1. Conducted Measurement
EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is $\pm 1.5\text{dB}$.
3. Environmental Conditions

| | |
|----------------------|----------|
| Temperature | 23°C |
| Relative Humidity | 55% |
| Atmospheric Pressure | 1005mbar |
4. Test date : March 24, 2014
Tested By : Kahn Yang

Standard Requirement:

According to §15.247(a)(1)(iii), The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Procedures:

1. Place the EUT on the table and set it in transmitting mode and switch on frequency hopping function.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as Span = zero span, centered on a hopping channel,
RBW=1MHz, VBW \geq RBW, Sweep = as necessary to capture the entire dwell time per hopping channel, Detector function = peak, Trace = max hold.
4. Calculate the time of occupancy in a period with time occupancy of a burst and quantity of bursts.

Test Result: Pass

Please refer to the following plots.

Note:

0: Low Channel

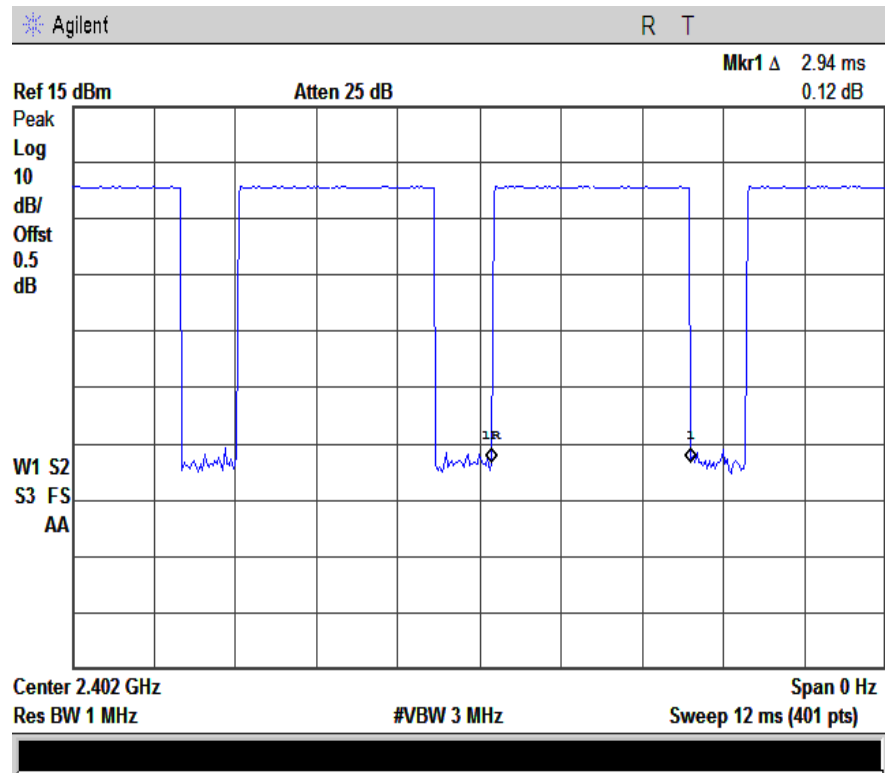
39: Middle Channel

78: High Channel

| | |
|-------------------|--|
| Test Mode: | Hopping Mode With GFSK Modulation |
|-------------------|--|

| Mode | Channel | Pulse Width (ms) | Dwell Time (s) | Limit (s) | Result |
|------|--|------------------|----------------|-----------|--------|
| DH 5 | Low | 2.94 | 0.3136 | 0.4 | Pass |
| | Middle | 2.94 | 0.3136 | 0.4 | Pass |
| | High | 2.97 | 0.3168 | 0.4 | Pass |
| | <i>Note:</i> Dwell time=Pulse Time (ms) × (1600 ÷ 6 ÷ 79) ×31.6 Second | | | | |

Please refer to the following plots.



1M-0

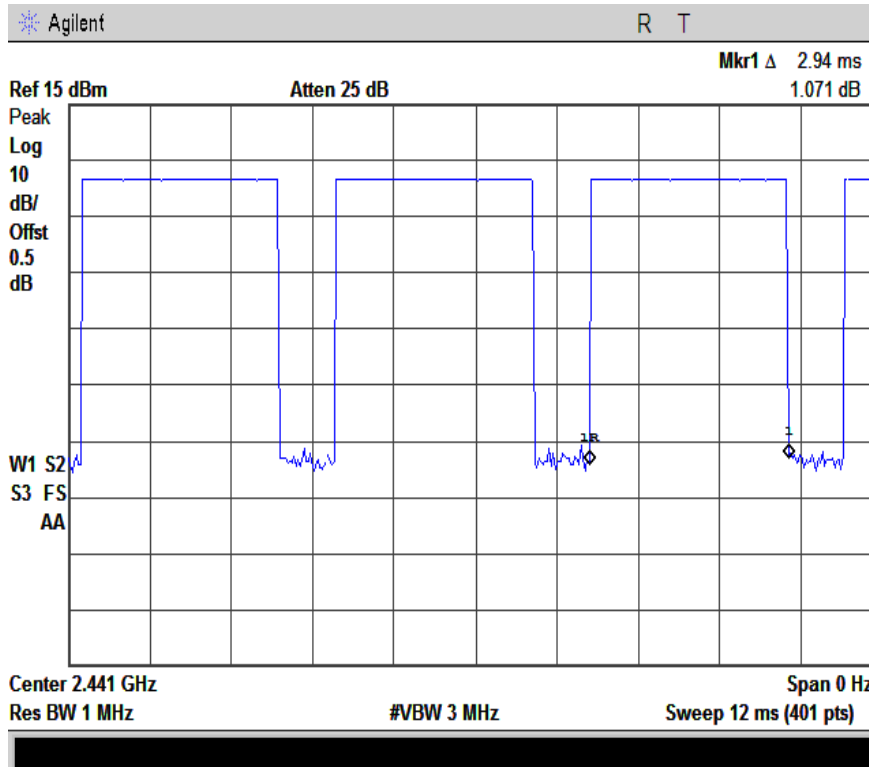


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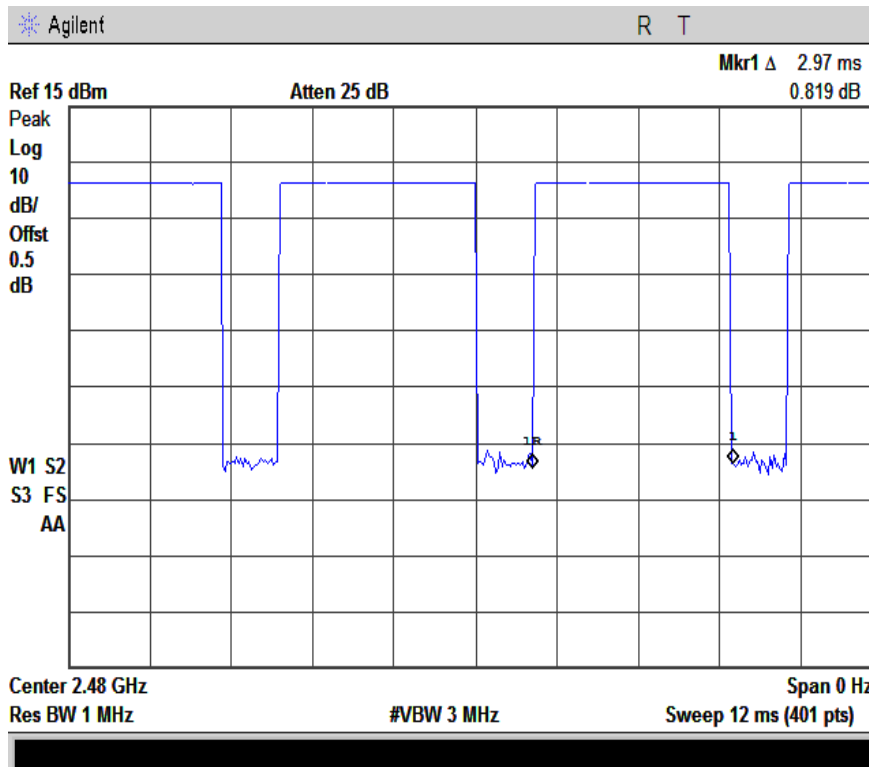
Accessing global markets

Title: RF Test Report for POLAROID PMID705GTV
Main Model: PMID705GTV
Main Model: N/A
To: FCC 15.247: 2013, ANSI C63.4: 2009

Report No: 14070068-FCC-R2
Issue Date: May 09, 2014
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1M-39

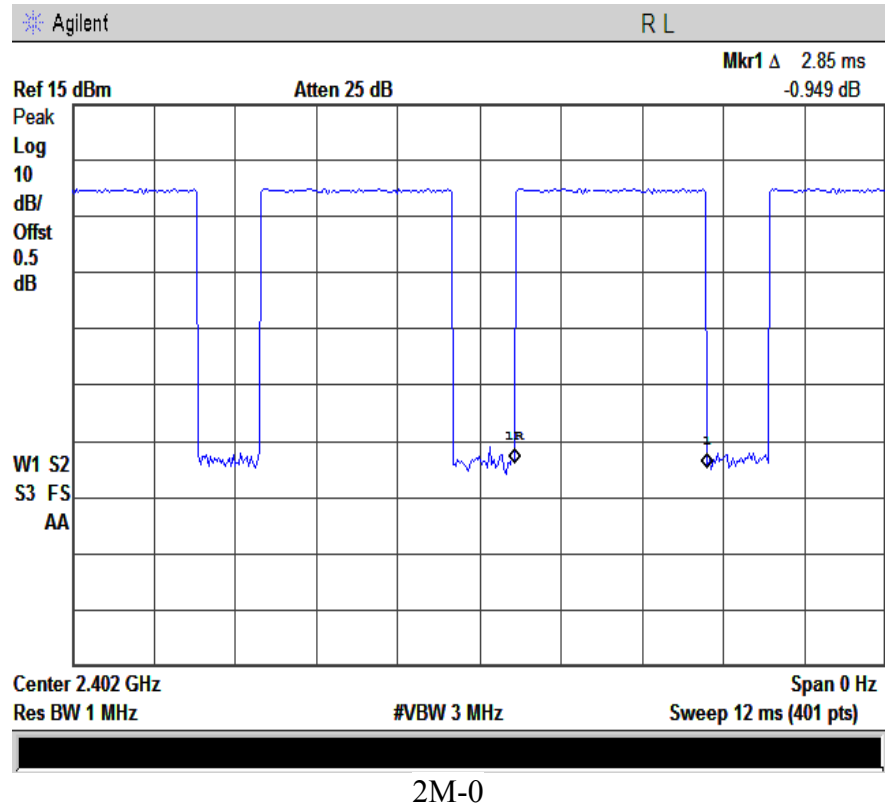


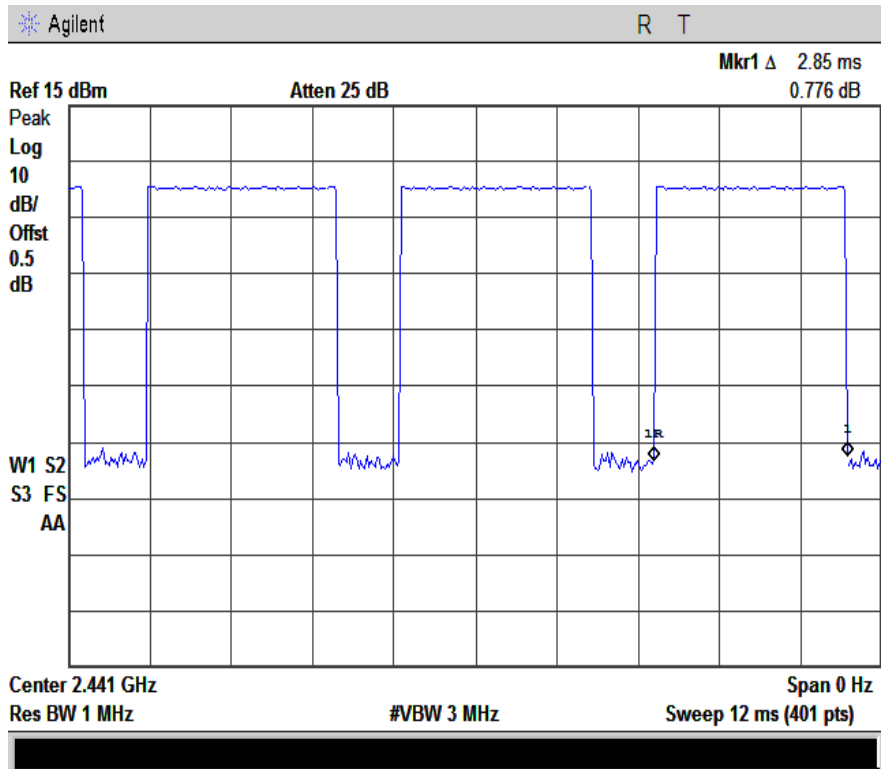
1M-78

| | |
|-------------------|---|
| Test Mode: | Hopping Mode With $\pi/4$DQPSK Modulation |
|-------------------|---|

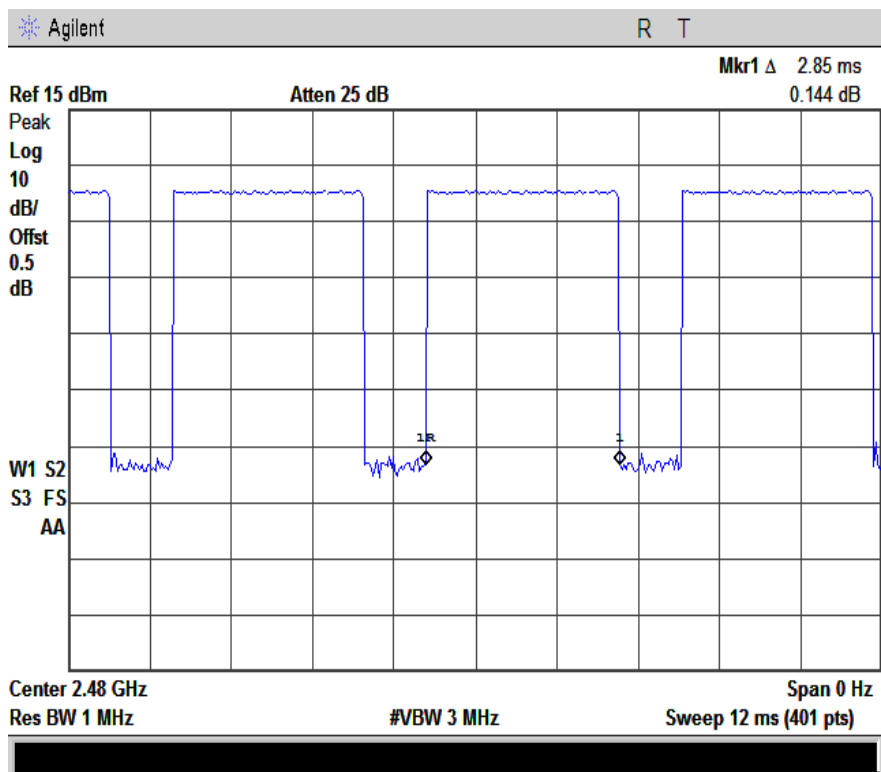
| Mode | Channel | Pulse Width (ms) | Dwell Time (s) | Limit (s) | Result |
|--------------|---|------------------|----------------|-----------|--------|
| 2DH 5 | Low | 2.85 | 0.3040 | 0.4 | Pass |
| | Middle | 2.85 | 0.3040 | 0.4 | Pass |
| | High | 2.85 | 0.3040 | 0.4 | Pass |
| | <i>Note:</i> Dwell time=Pulse Time (ms) \times (1600 \div 6 \div 79) \times 31.6 Second | | | | |

Please refer to the following plots.





2M-39

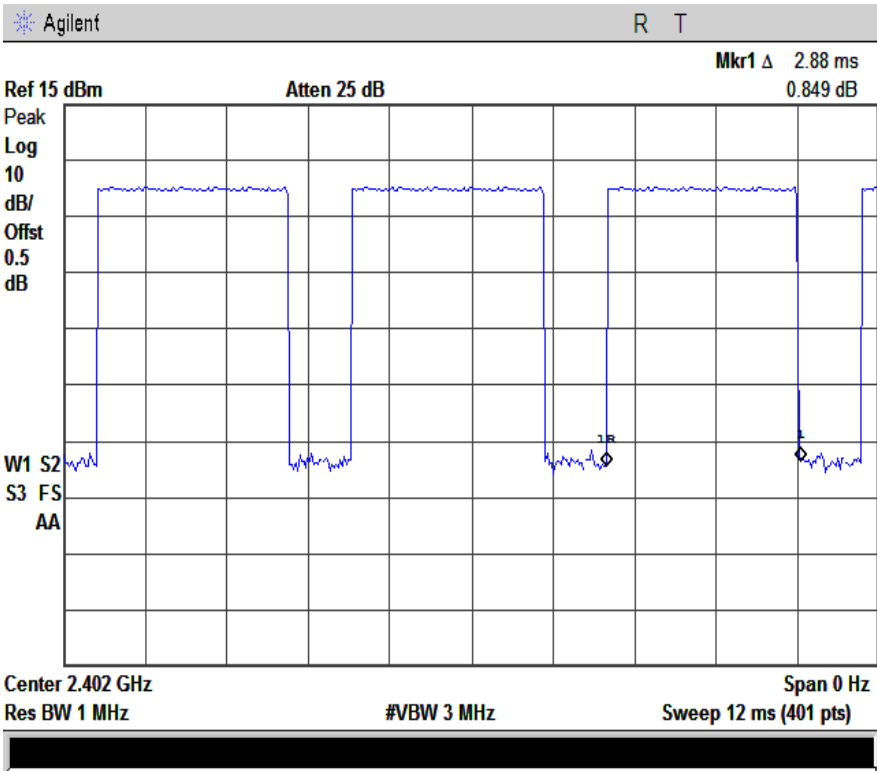


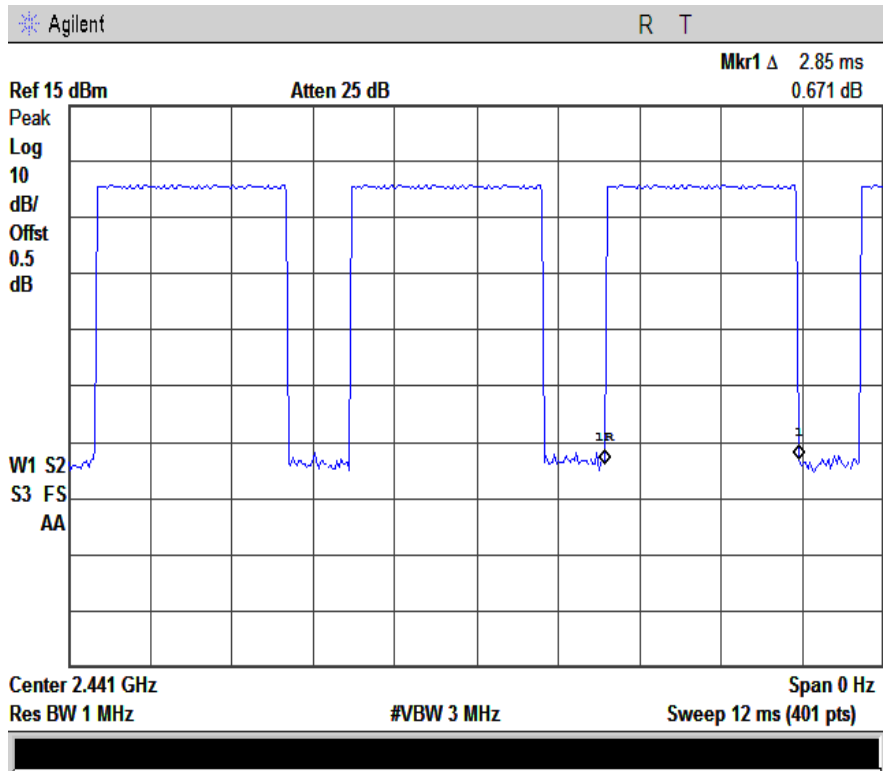
2M-78

| | |
|-------------------|---|
| Test Mode: | Hopping Mode With 8DPSK Modulation |
|-------------------|---|

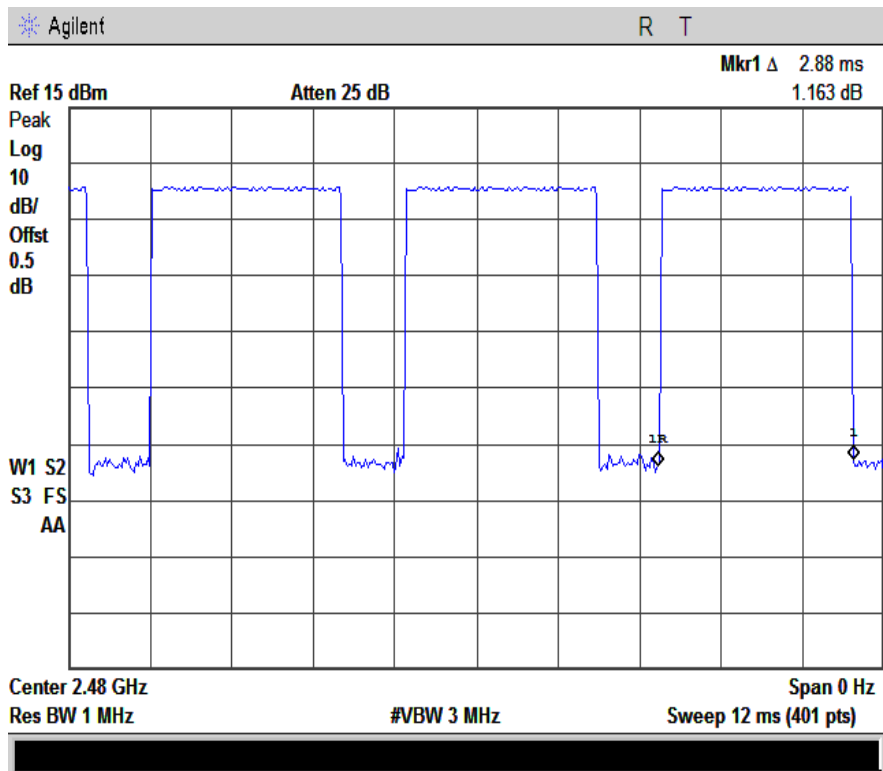
| Mode | Channel | Pulse Width (ms) | Dwell Time (s) | Limit (s) | Result |
|-------|--|------------------|----------------|-----------|--------|
| 3DH 5 | Low | 2.88 | 0.3072 | 0.4 | Pass |
| | Middle | 2.85 | 0.3040 | 0.4 | Pass |
| | High | 2.88 | 0.3072 | 0.4 | Pass |
| | <i>Note:</i> Dwell time=Pulse Time (ms) × (1600 ÷ 6 ÷ 79) ×31.6 Second | | | | |

Please refer to the following plots.





3M-39



3M-78

5.7 §15.247(b) (1) - Peak Output Power

1. Conducted Measurement
EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is $\pm 1.5\text{dB}$.
3. Environmental Conditions

| | |
|----------------------|----------|
| Temperature | 23°C |
| Relative Humidity | 55% |
| Atmospheric Pressure | 1005mbar |
4. Test date : March 24, 2014
Tested By : Kahn Yang

Standard Requirement:

According to §15.247(b)(2), For frequency hopping systems in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5MHz band: 0.125watts.

Procedures:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel, RBW > the 20 dB bandwidth of the emission being measured, VBW \geq RBW, Sweep=auto, Detector function=peak, Trace = max hold.
4. Then set the EUT to transmit at low, middle and high channel and measure the conducted output power separately.

Test Result: Pass

Please refer to the following plots.

Note:

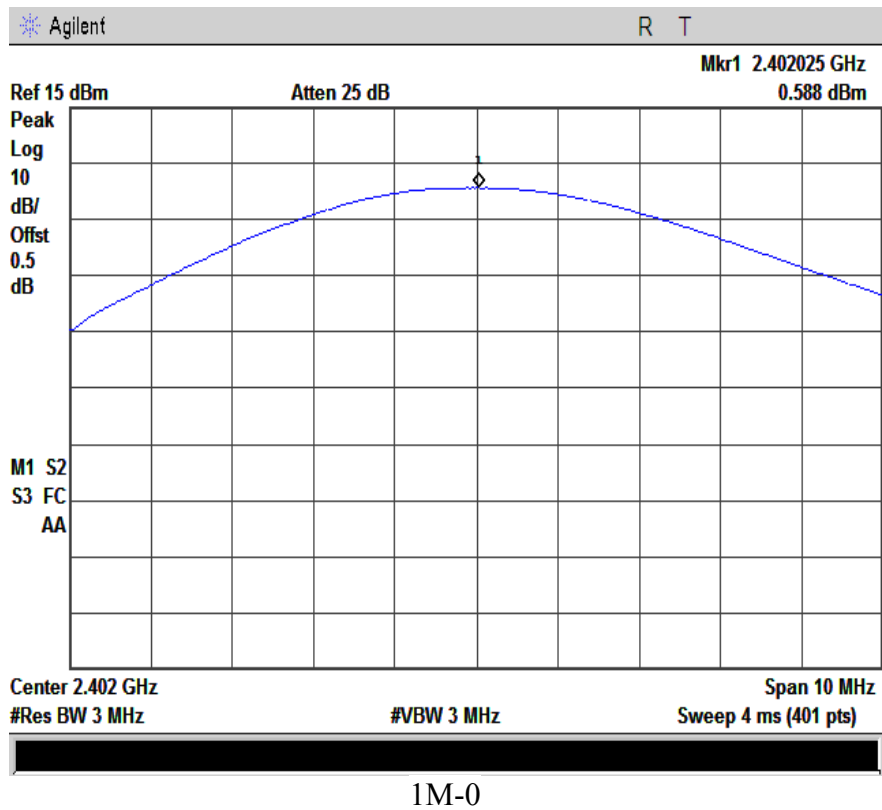
0: Low Channel
39: Middle Channel
78: High Channel

| | |
|-------------------|--------------------------|
| Test Mode: | GFSK Transmitting |
|-------------------|--------------------------|

| Channel | Channel frequency (MHz) | Peak output power (dBm) | Power output (mW) | Limit (mW) |
|----------------|-------------------------|-------------------------|-------------------|------------|
| Low channel | 2402 | 0.588 | 1.145 | 125 |
| Middle channel | 2441 | 1.590 | 1.442 | 125 |
| High channel | 2480 | 1.703 | 1.480 | 125 |

Please refer to the following plots.

Note: The data above was tested in conducted mode.



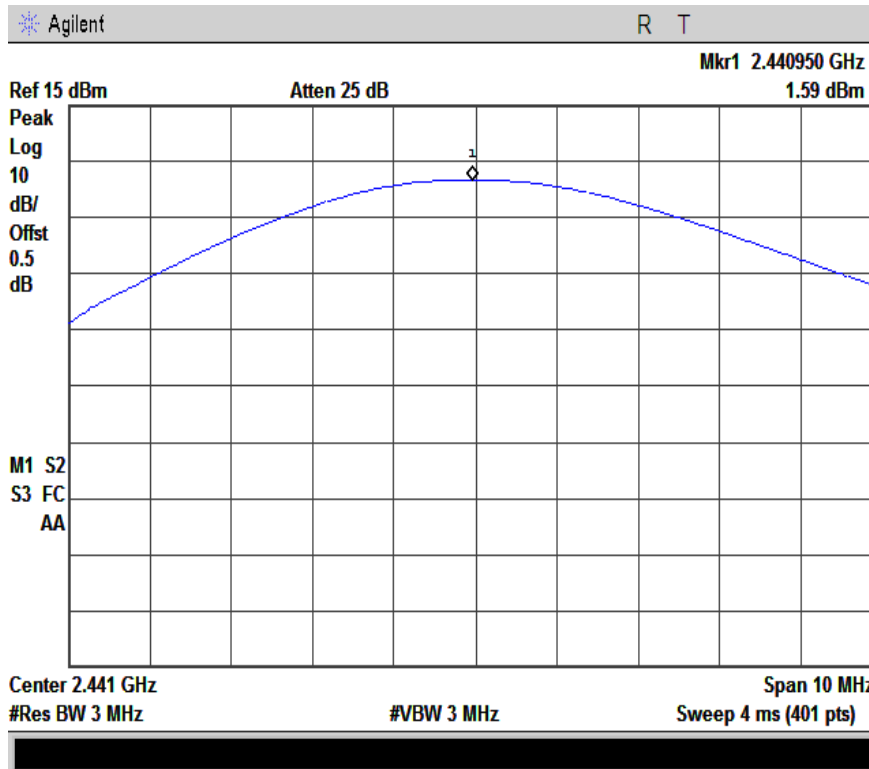


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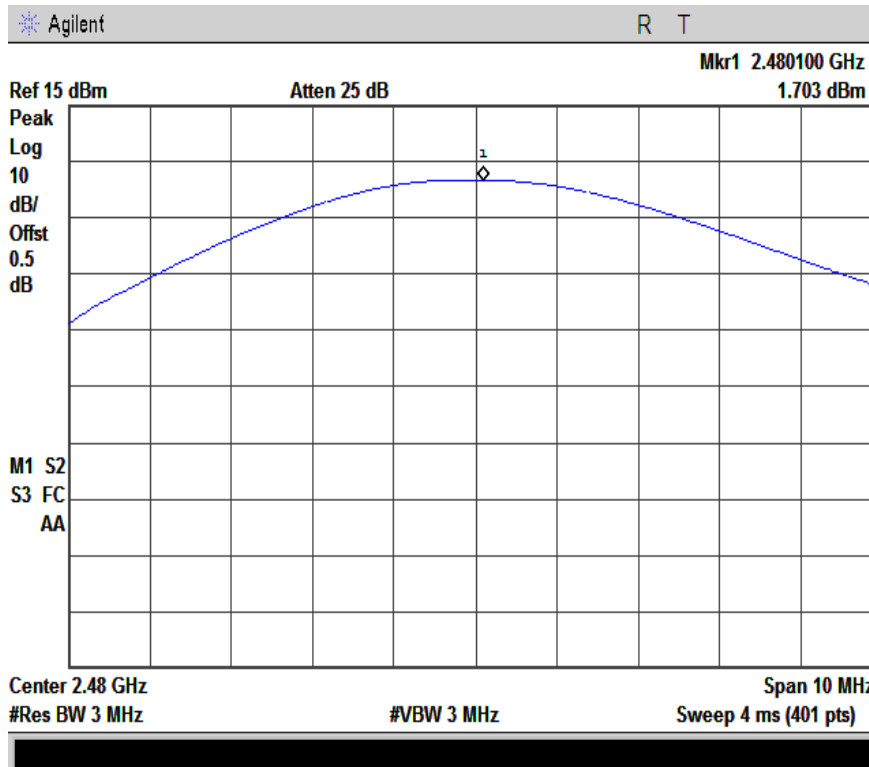
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Title: RF Test Report for POLAROID PMID705GTV
Main Model: PMID705GTV
Main Model: N/A
To: FCC 15.247: 2013, ANSI C63.4: 2009

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1M-39



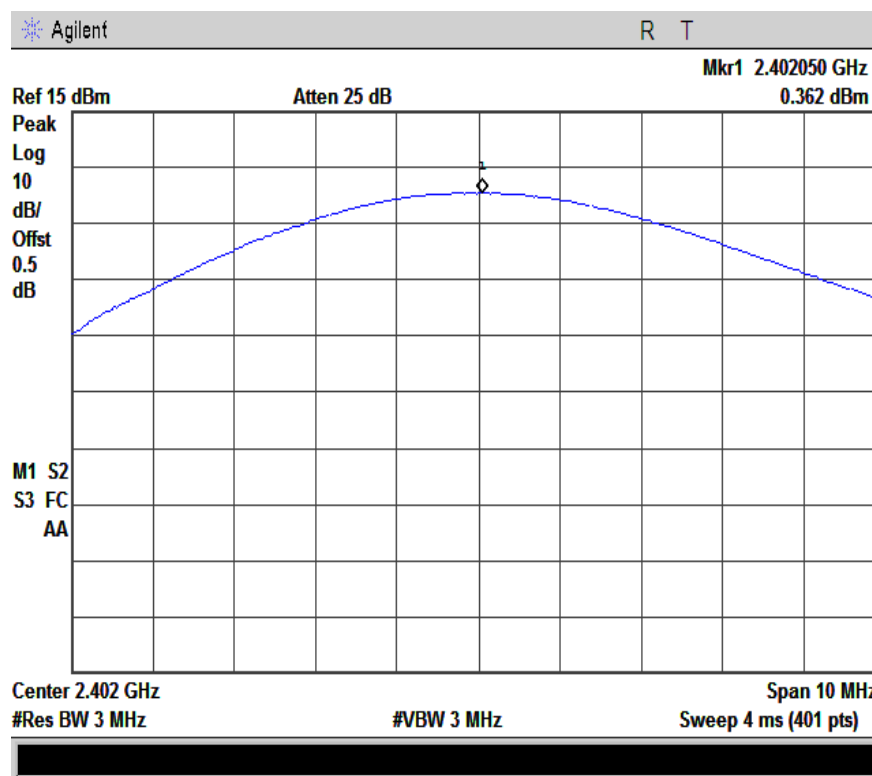
1M-78

| | |
|-------------------|--|
| Test Mode: | π /4DQPSK Transmitting |
|-------------------|--|

| Channel | Channel frequency (MHz) | Peak output power (dBm) | Power output (mW) | Limit (mW) |
|----------------|-------------------------|-------------------------|-------------------|------------|
| Low channel | 2402 | 0.362 | 1.087 | 125 |
| Middle channel | 2441 | 1.125 | 1.296 | 125 |
| High channel | 2480 | 1.074 | 1.281 | 125 |

Please refer to the following plots.

Note: The data above was tested in conducted mode.



2M-0

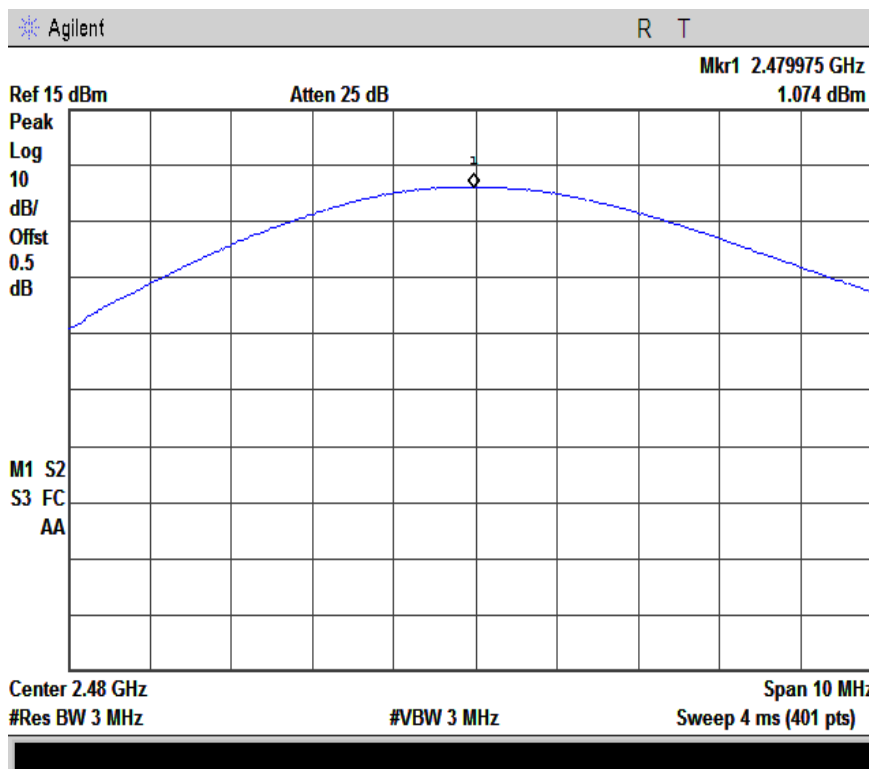
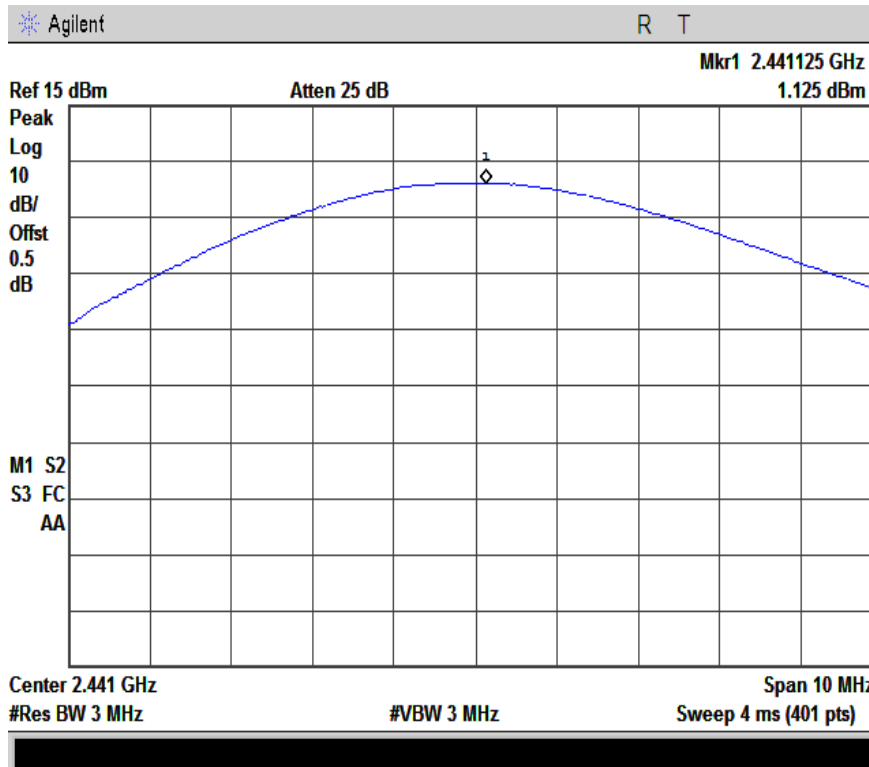


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Main Model: PMID705GTV
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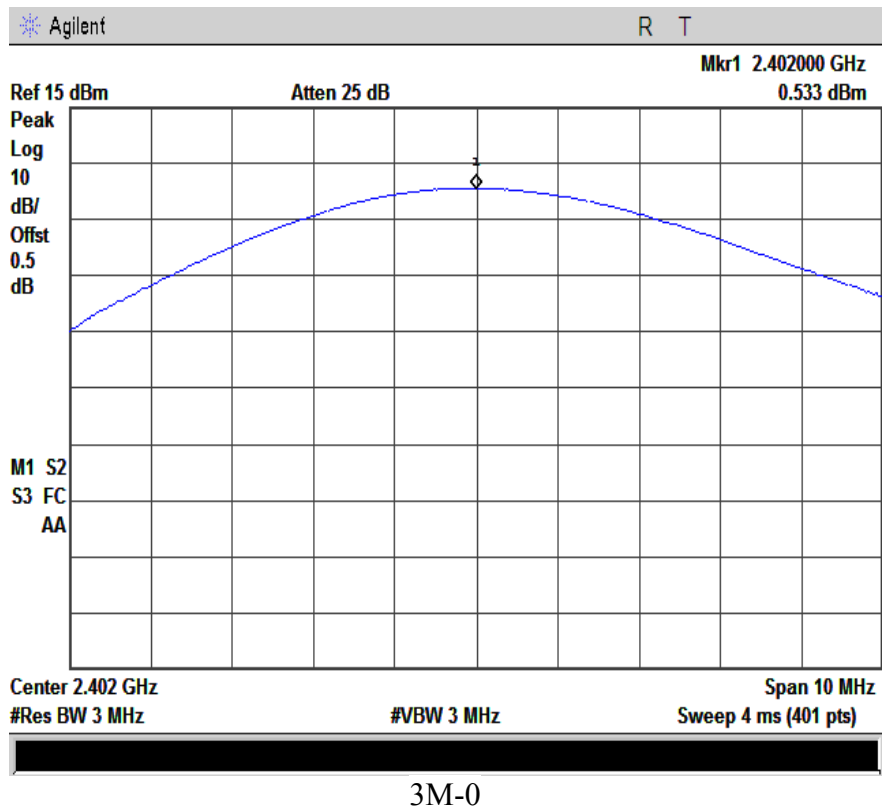


| | |
|-------------------|---------------------------|
| Test Mode: | 8DPSK Transmitting |
|-------------------|---------------------------|

| Channel | Channel frequency (MHz) | Peak output power (dBm) | Power output (mW) | Limit (mW) |
|----------------|-------------------------|-------------------------|-------------------|------------|
| Low channel | 2402 | 0.533 | 1.131 | 125 |
| Middle channel | 2441 | 1.272 | 1.340 | 125 |
| High channel | 2480 | 1.253 | 1.334 | 125 |

Please refer to the following plots.

Note: The data above was tested in conducted mode.



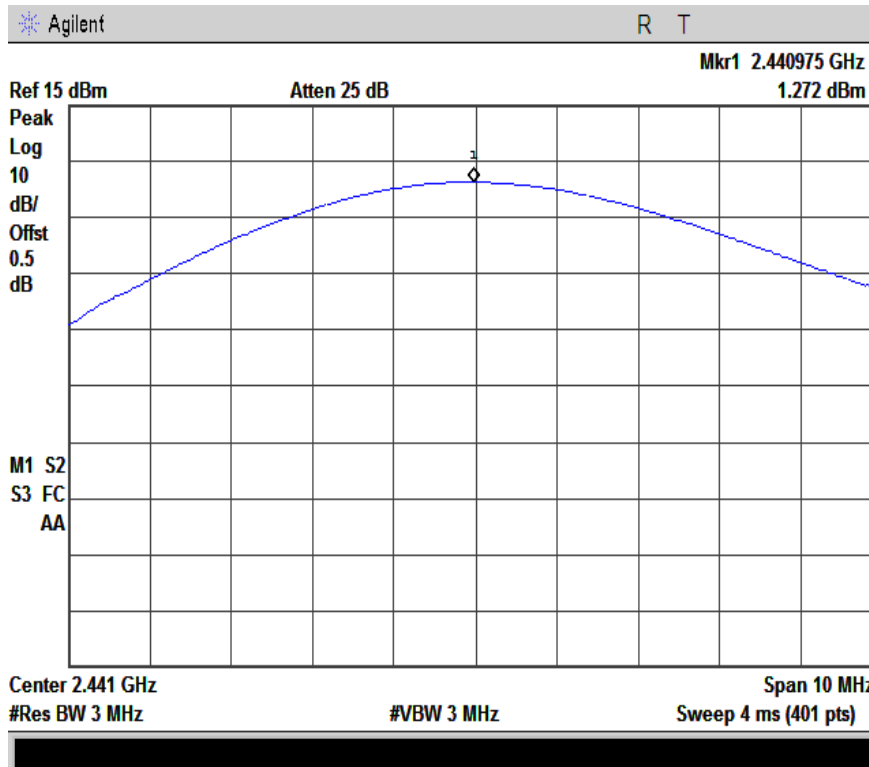


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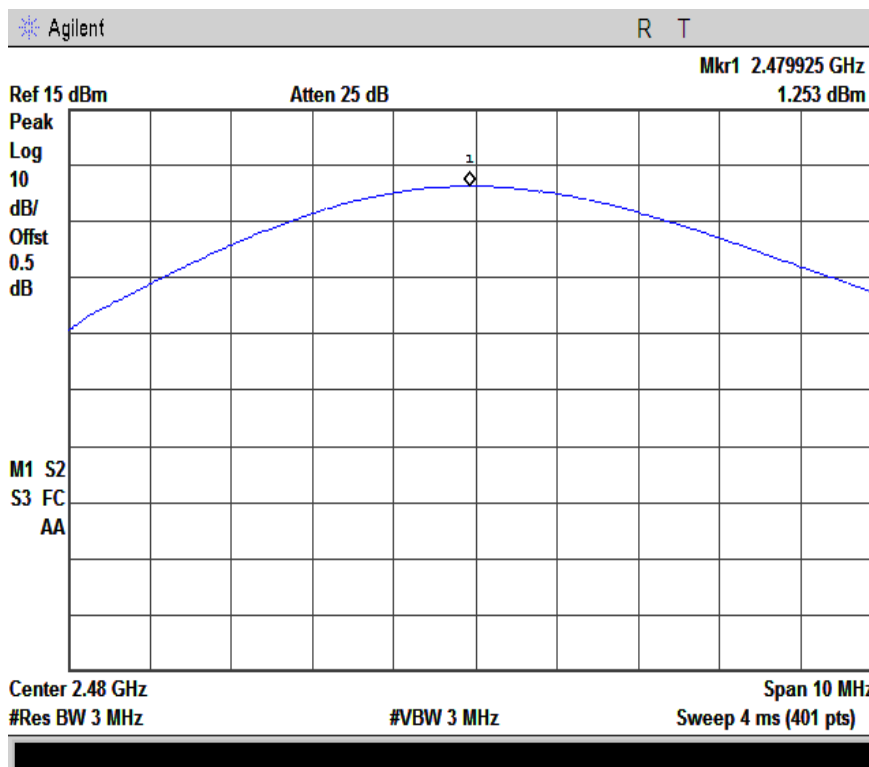
Accessing global markets

Title: RF Test Report for POLAROID PMID705GTV
Main Model: PMID705GTV
Main Model: N/A
To: FCC 15.247: 2013, ANSI C63.4: 2009

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3M-39



3M-78

5.8 §15.247(d) - Band Edge

Standard Requirement:

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

Procedures:

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1MHz, VBW=3MHz.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Test Result: Pass

Please refer to the following plots.

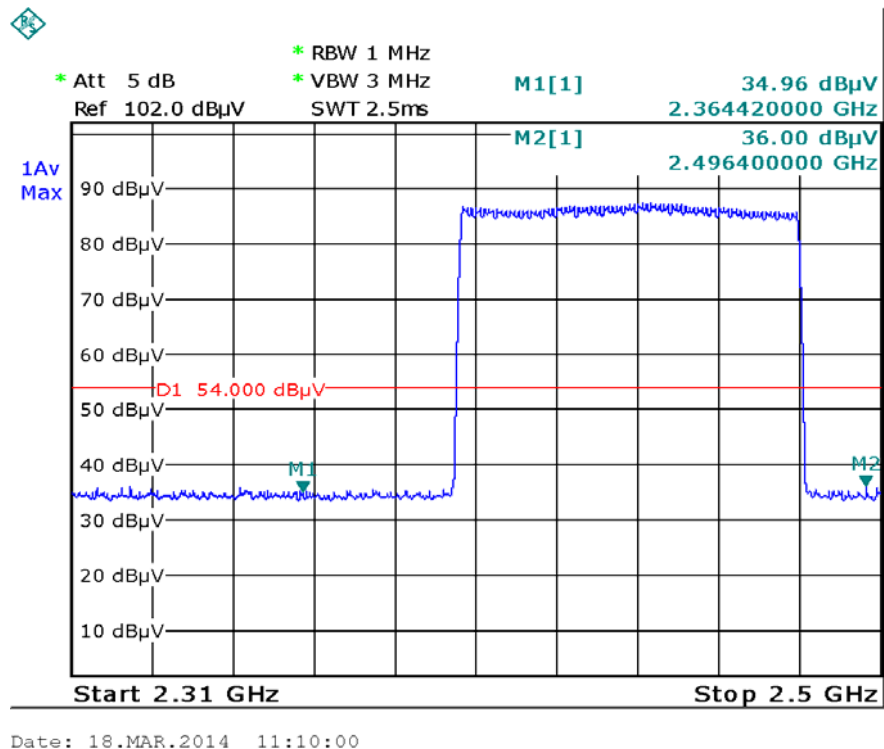
Note:

1M: GFSK

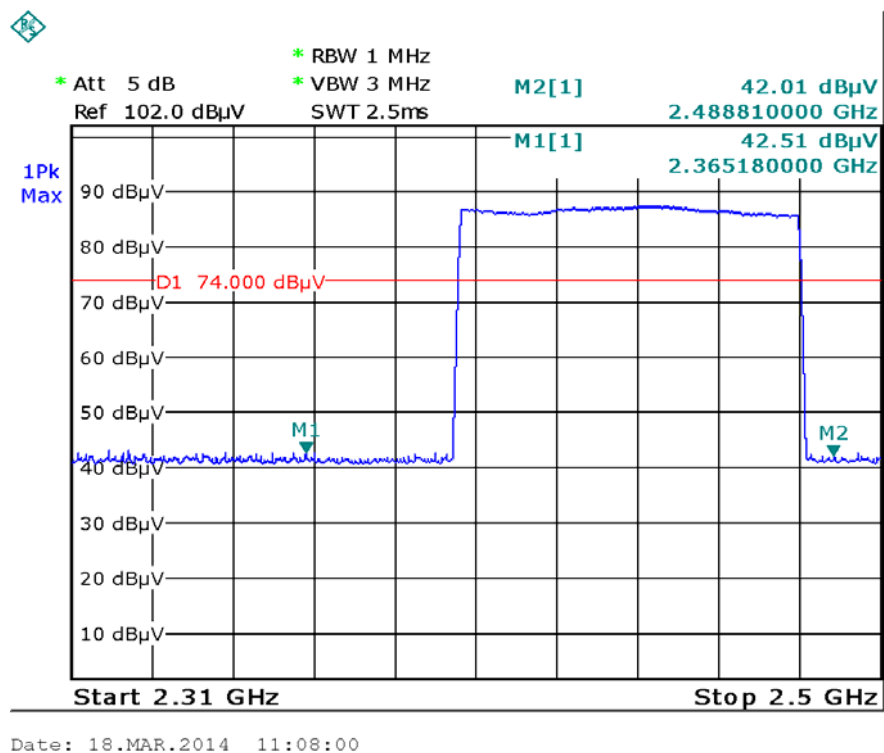
2M: $\pi/4$ DQPSK

3M: 8DPSK

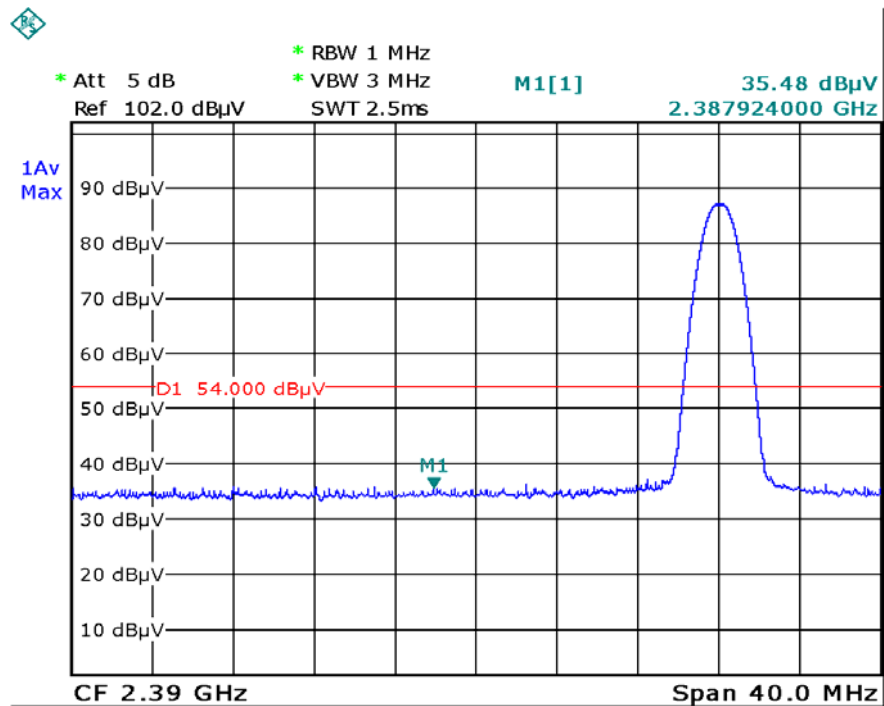
| | |
|------------|----------------------------|
| Test Mode: | GFSK Hopping& Transmitting |
|------------|----------------------------|



1M-Hopping-AV

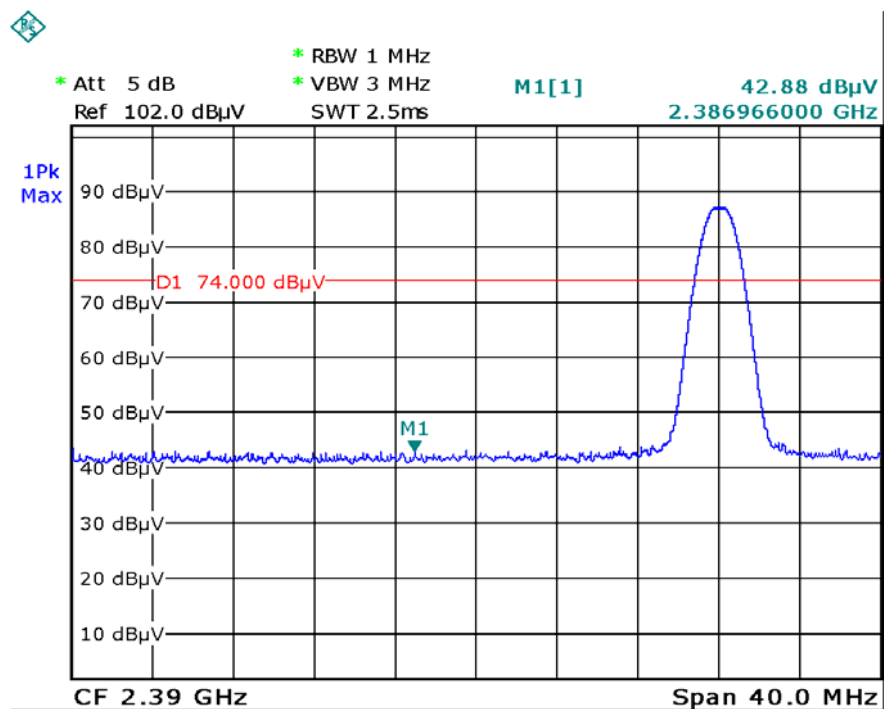


1M-Hopping-PK



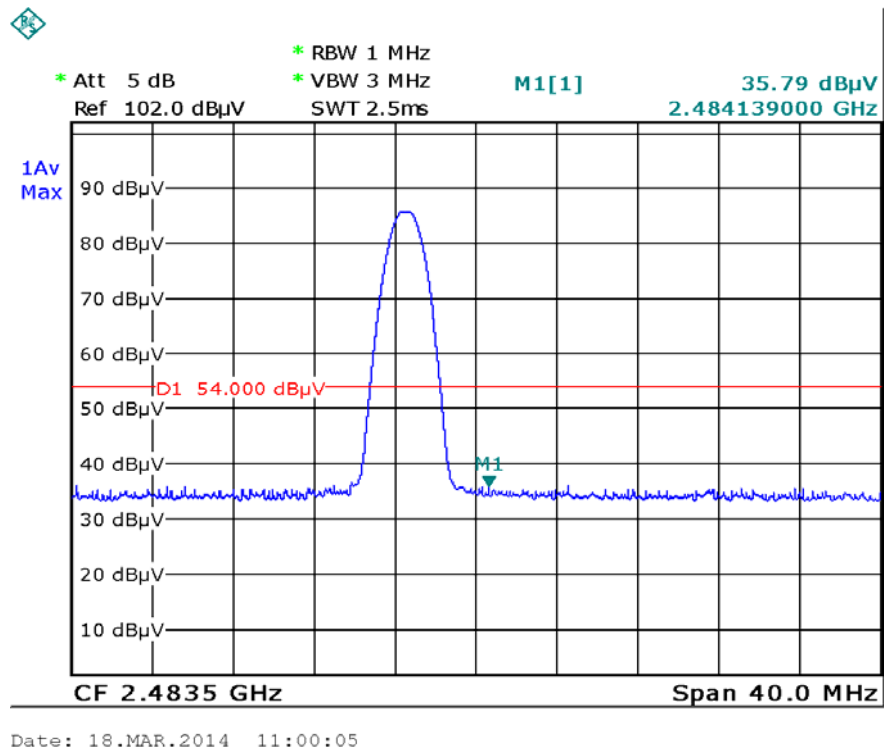
Date: 18.MAR.2014 10:47:43

1M-Left Side-AV

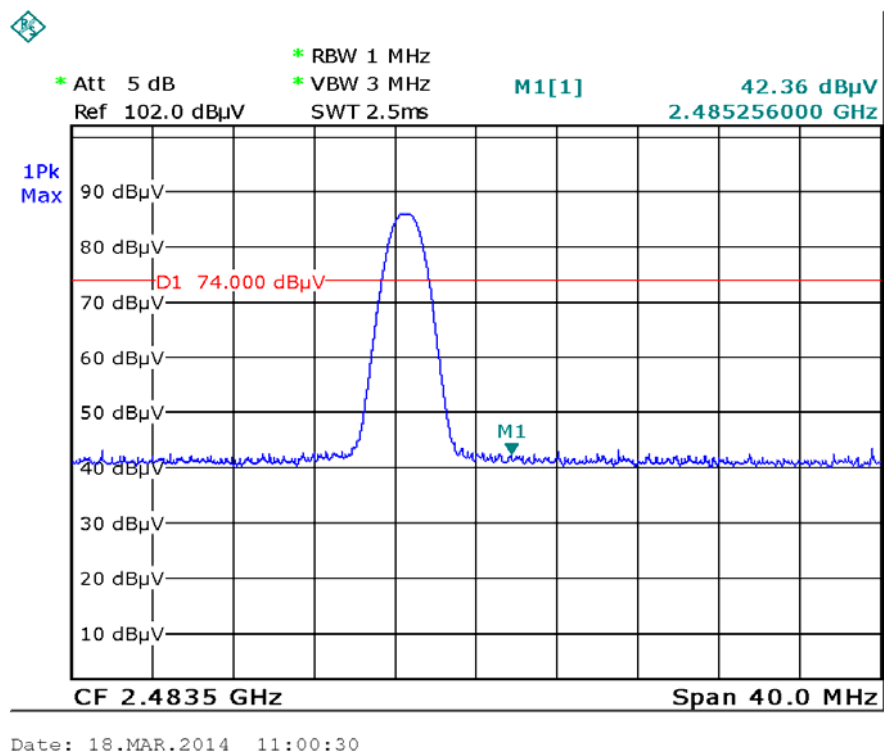


Date: 18.MAR.2014 10:46:18

1M-Left Side-PK

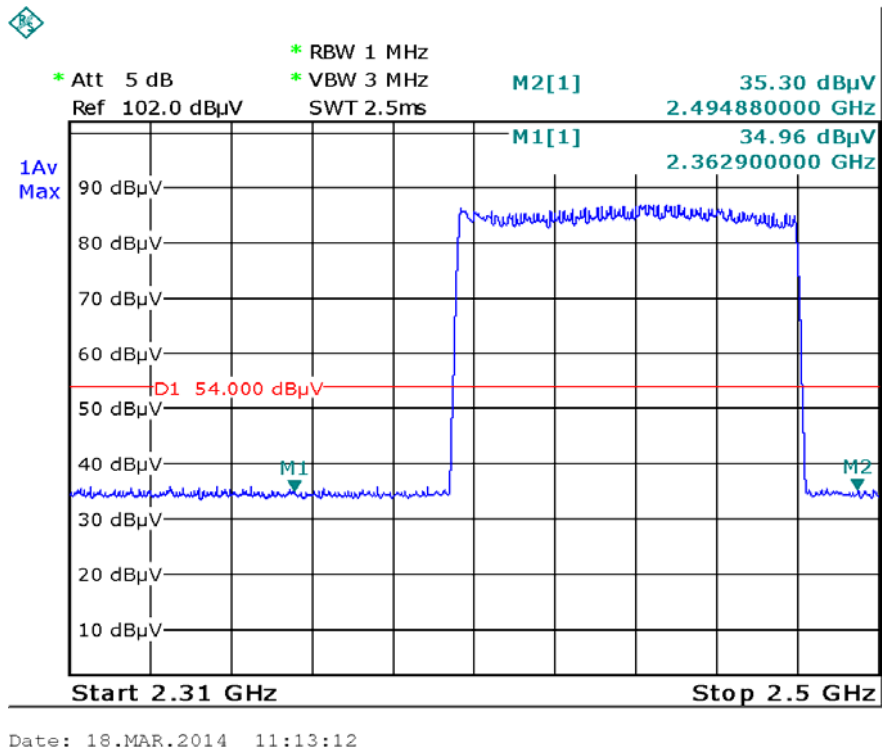


1M-Right Side-AV

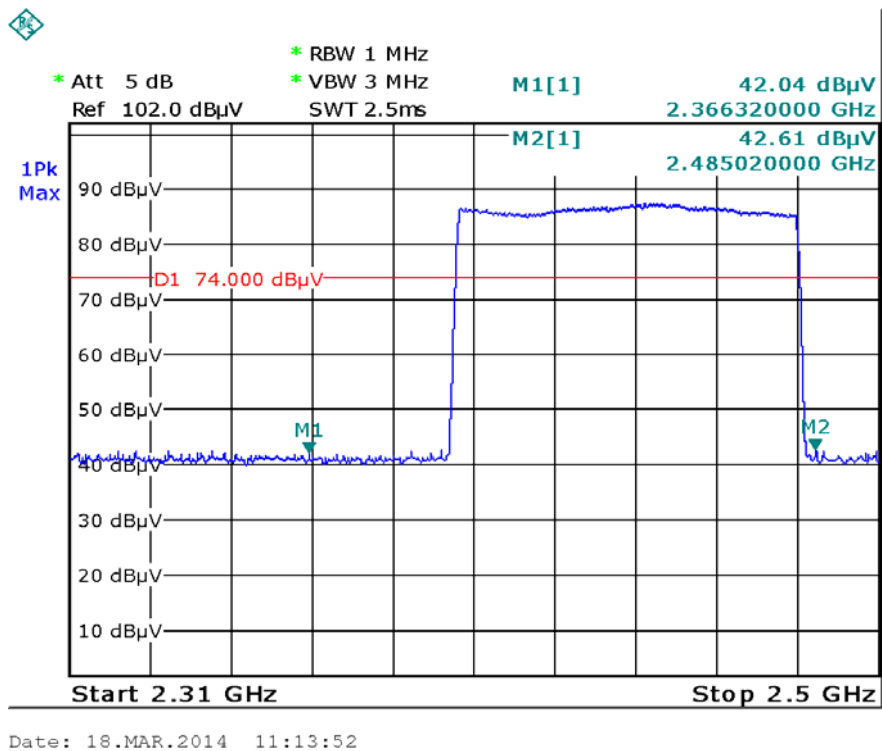


1M-Right Side-PK

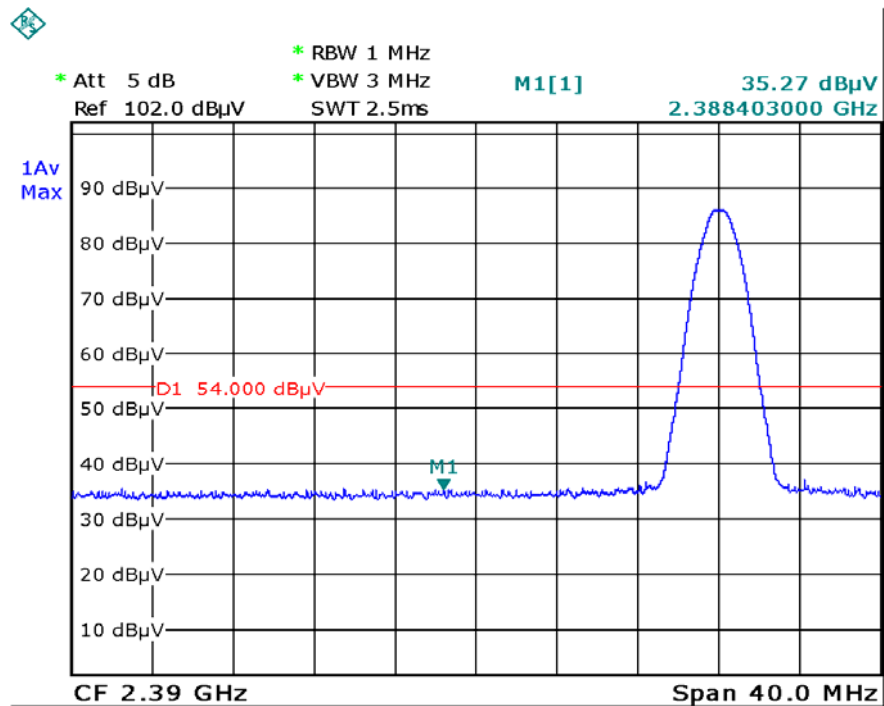
| | |
|------------|-------------------------------------|
| Test Mode: | π /4DQPSK Hopping& Transmitting |
|------------|-------------------------------------|



2M-Hopping-AV

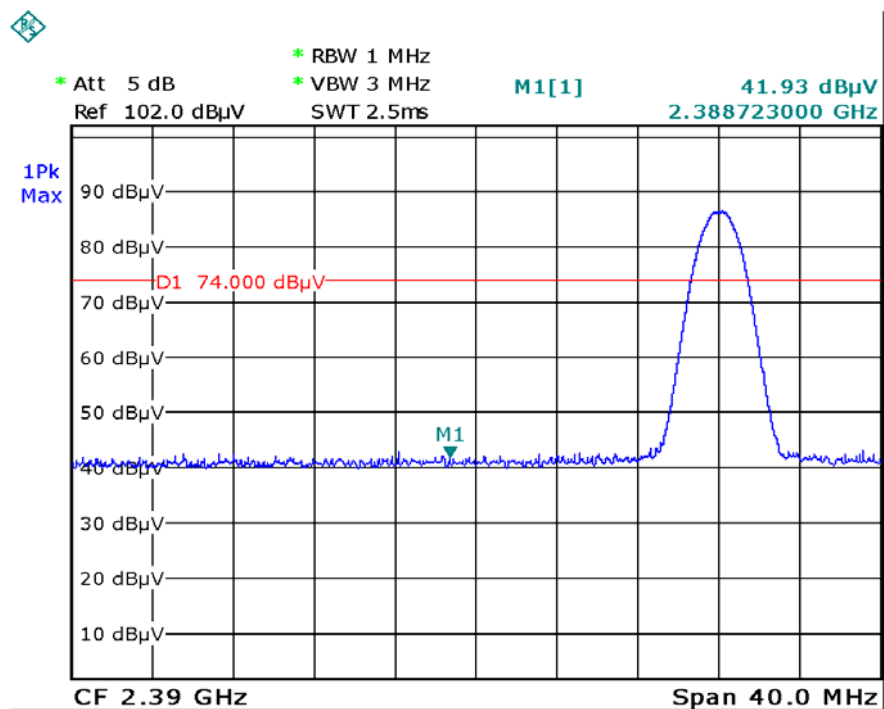


2M-Hopping-PK



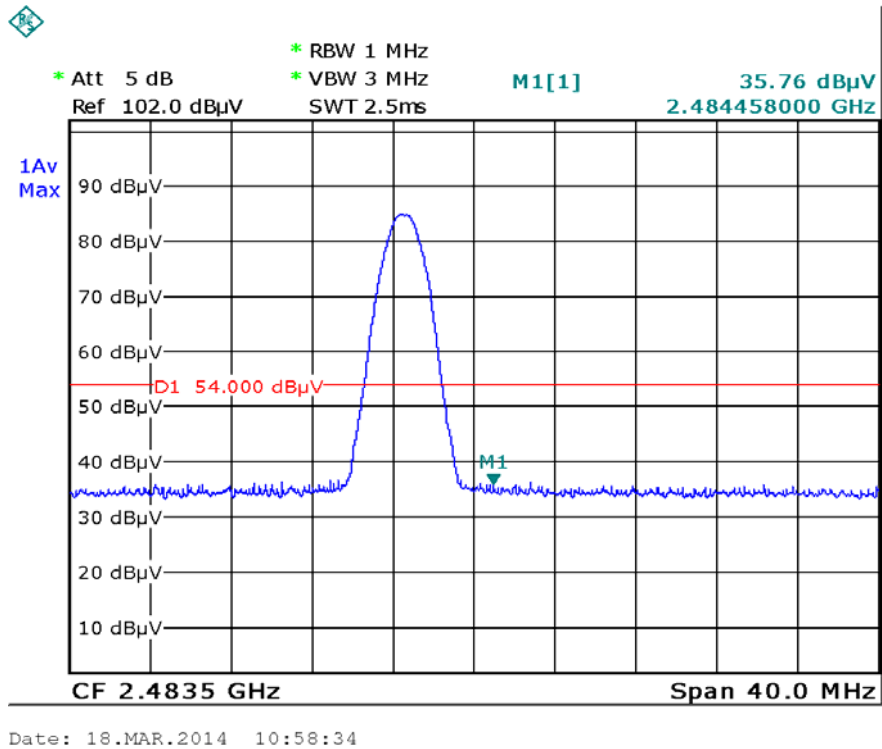
Date: 18.MAR.2014 10:50:22

2M-Left Side-AV

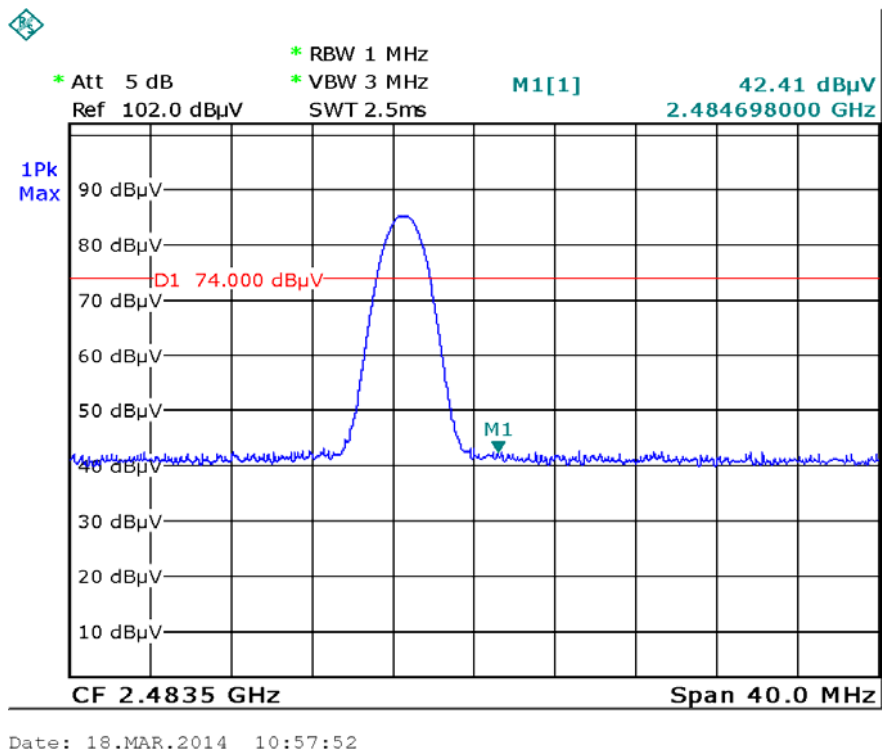


Date: 18.MAR.2014 10:51:12

2M-Left Side-PK



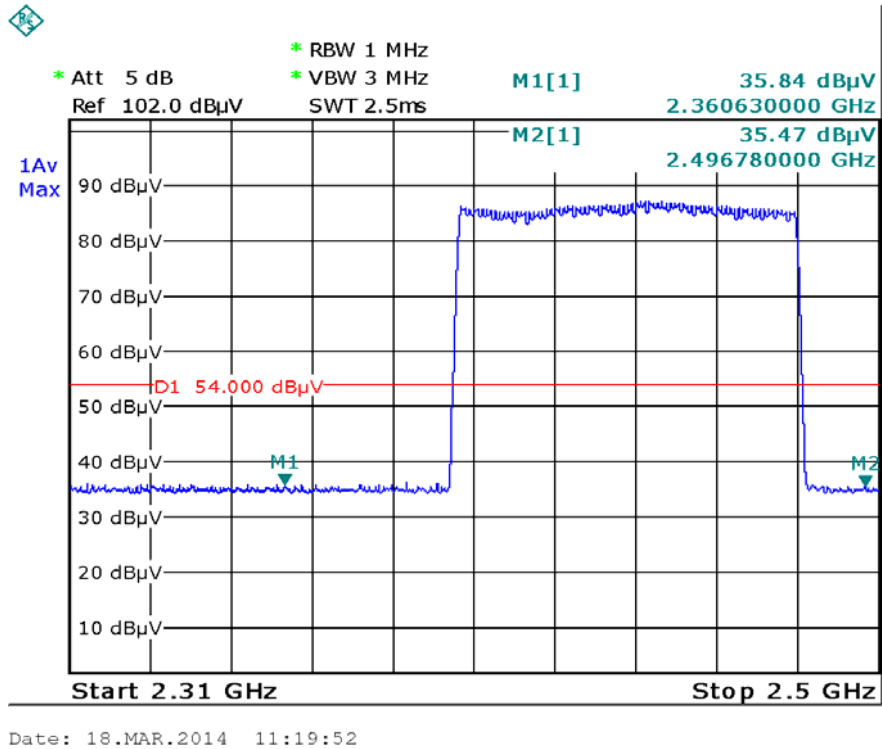
2M-Right Side-AV



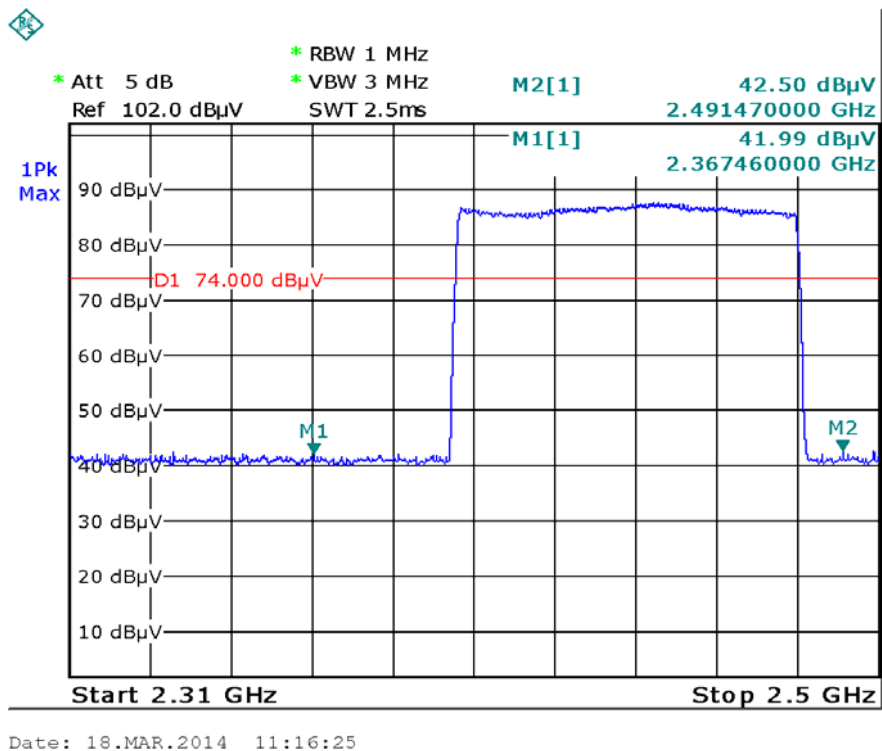
2M-Right Side-PK

Test Mode:

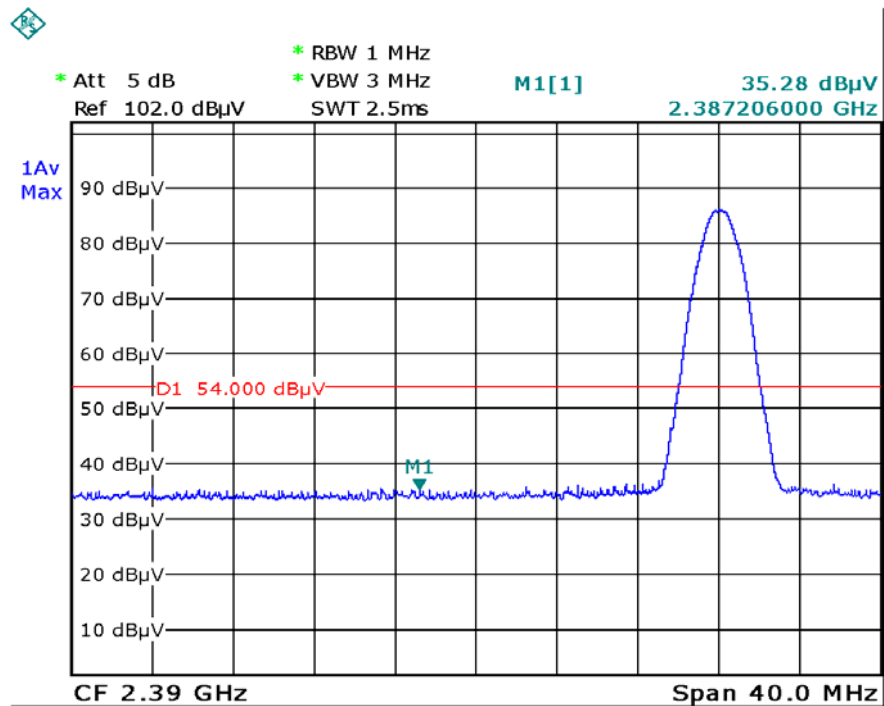
8DPSK Hopping& Transmitting



3M-Hopping-AV

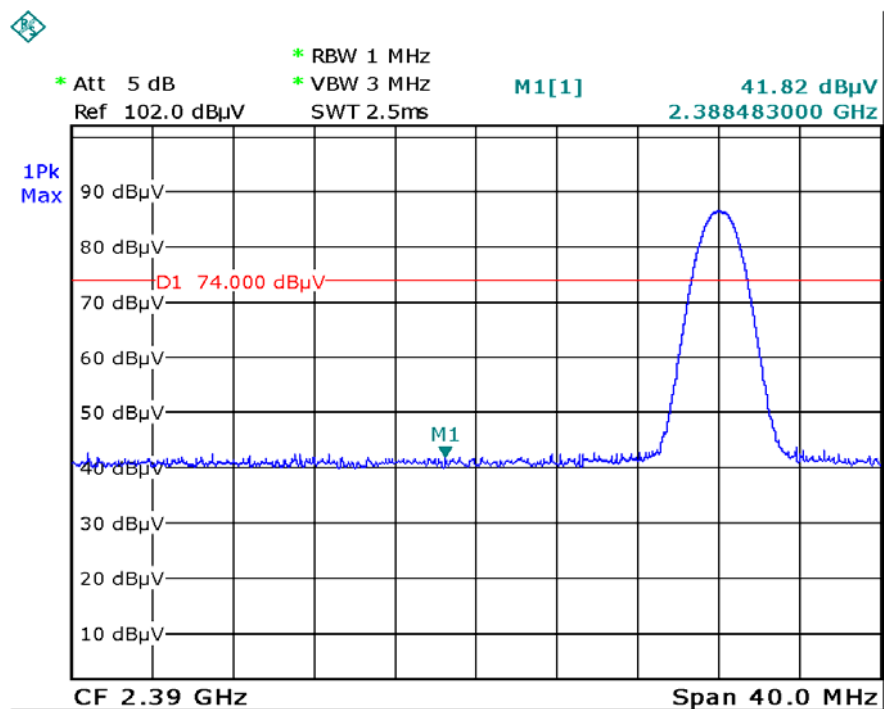


3M-Hopping-PK



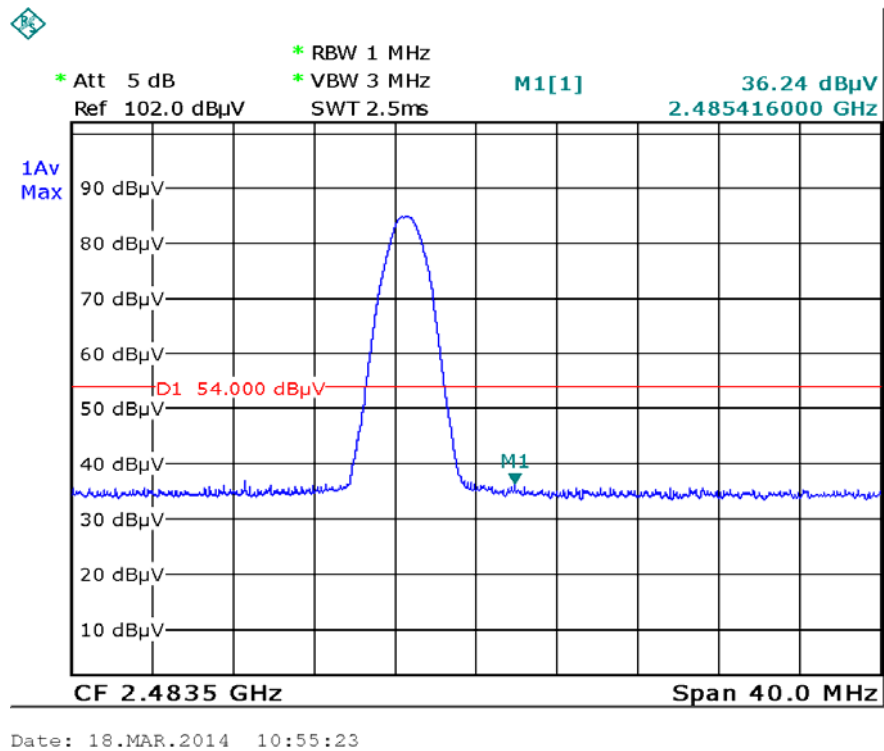
Date: 18.MAR.2014 10:53:28

3M-Left Side-AV

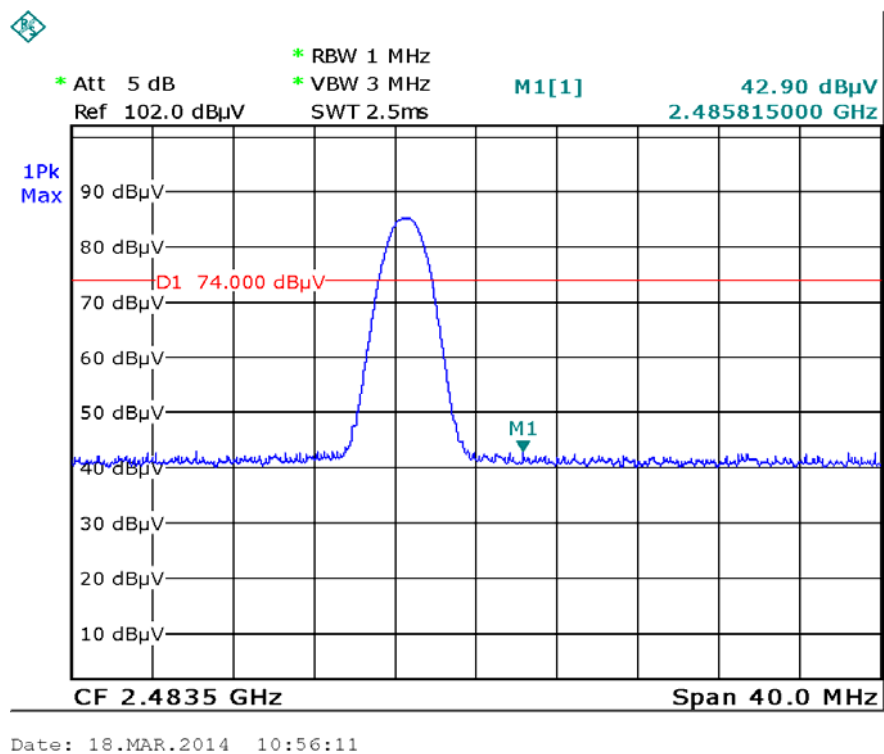


Date: 18.MAR.2014 10:52:45

3M-Left Side-PK



3M-Right Side-AV



3M-Right Side-PK

Annex A. TEST INSTRUMENT & METHOD

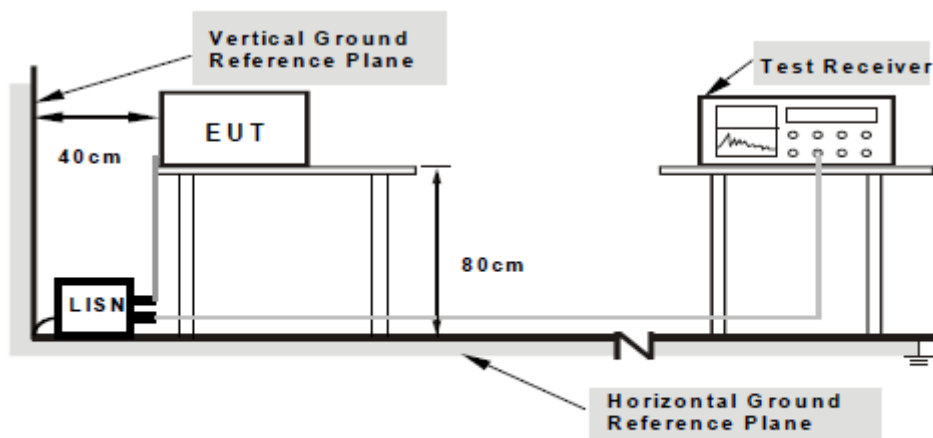
Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

| Instrument | Model | Serial # | Calibration Date | Calibration Due Date |
|--|----------|-------------|------------------|----------------------|
| AC Line Conducted Emissions | | | | |
| EMI test receiver | ESCS30 | 8471241027 | 05/27/2013 | 05/26/2014 |
| Line Impedance Stabilization Network | LI-125A | 191106 | 11/14/2013 | 11/13/2014 |
| Line Impedance Stabilization Network | LI-125A | 191107 | 11/14/2013 | 11/13/2014 |
| LISN | ISN T800 | 34373 | 01/11/2014 | 01/10/2015 |
| Double Ridge Horn Antenna (1 ~18GHz) | AH-118 | 71283 | 11/20/2013 | 11/19/2014 |
| Transient Limiter | LIT-153 | 531118 | 09/02/2013 | 09/01/2014 |
| RF conducted test | | | | |
| Agilent ESA-E SERIES SPECTRUM ANALYZER | E4407B | MY45108319 | 09/17/2013 | 09/16/2014 |
| Power Splitter | 1# | 1# | 09/02/2013 | 09/01/2014 |
| DC Power Supply | E3640A | MY40004013 | 09/17/2013 | 09/16/2014 |
| Wireless Connectivity Test Set | N4010A | GB44440198 | 03/20/2014 | 03/19/2015 |
| Radiated Emissions | | | | |
| EMI test receiver | ESL6 | 100262 | 11/23/2013 | 11/22/2014 |
| Positioning Controller | UC3000 | MF780208282 | 11/19/2013 | 11/19/2014 |
| OPT 010 AMPLIFIER (0.1-1300MHz) | 8447E | 2727A02430 | 09/02/2013 | 09/01/2014 |
| Microwave Preamplifier (0.5~18GHz) | PAM-118 | 443008 | 09/02/2013 | 09/01/2014 |
| Bilog Antenna (30MHz~6GHz) | JB6 | A110712 | 09/23/2013 | 09/22/2014 |
| Double Ridge Horn Antenna (1 ~18GHz) | AH-118 | 71283 | 11/20/2013 | 11/19/2014 |
| Universal Radio Communication Tester | CMU200 | 121393 | 09/17/2013 | 09/16/2014 |

Annex A.ii. CONDUCTED EMISSIONS TEST DESCRIPTION

Test Set-up

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in Annex B.
2. The power supply for the EUT was fed through a 50Ω/50μH EUT LISN, connected to filtered mains.
3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
4. All other supporting equipments were powered separately from another main supply.



**Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.**

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration1.

Test Method

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.
3. High peaks, relative to the limit line, were then selected.
4. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz. For FCC tests, only Quasi-peak measurements were made; while for CISPR/EN tests, both Quasi-peak and Average measurements were made.
5. Steps 2 to 4 were then repeated for the LIVE line (for AC mains) or DC line (for DC power).

Description of Conducted Emission Program

This EMC Measurement software run LabView automation software and offers a common user interface for electromagnetic interference (EMI) measurements. This software is a modern and powerful tool for controlling and monitoring EMI test receivers and EMC test systems. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this program will run a pre-scan measurement before it proceeds with the final measurement. The pre-scan routine will run the common scan range from 150 kHz to 30 MHz; the program will first start a peak and average scan on selectable measurement time and step size. After the program complete the pre-scan, this program will perform the Quasi Peak and Average measurement, based on the pre-scan peak data reduction result.

Sample Calculation Example

At 20 MHz

limit = 250 μ V = 47.96 dB μ V

Transducer factor of LISN, pulse limiter & cable loss at 20 MHz = 11.20 dB

Q-P reading obtained directly from EMI Receiver = 40.00 dB μ V
(Calibrated for system losses)

Therefore, Q-P margin = 47.96 – 40.00 = 7.96 i.e. **7.96 dB below limit**

Annex A. iii. RADIATED EMISSIONS TEST DESCRIPTION

Limit

- Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength (mV/m) | Measurement Distance (m) |
|-----------------|-----------------------|--------------------------|
| 30-88 | 100* | 3 |
| 88-216 | 150* | 3 |
| 216-960 | 200* | 3 |
| Above 960 | 500 | 3 |

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

- In the above emission table, the tighter limit applies at the band edges.

| Frequency (Hz) | Field Strength ($\mu\text{V/m}$ at 3-meter) | Field Strength (dB $\mu\text{V/m}$ at 3-meter) |
|----------------|--|--|
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |

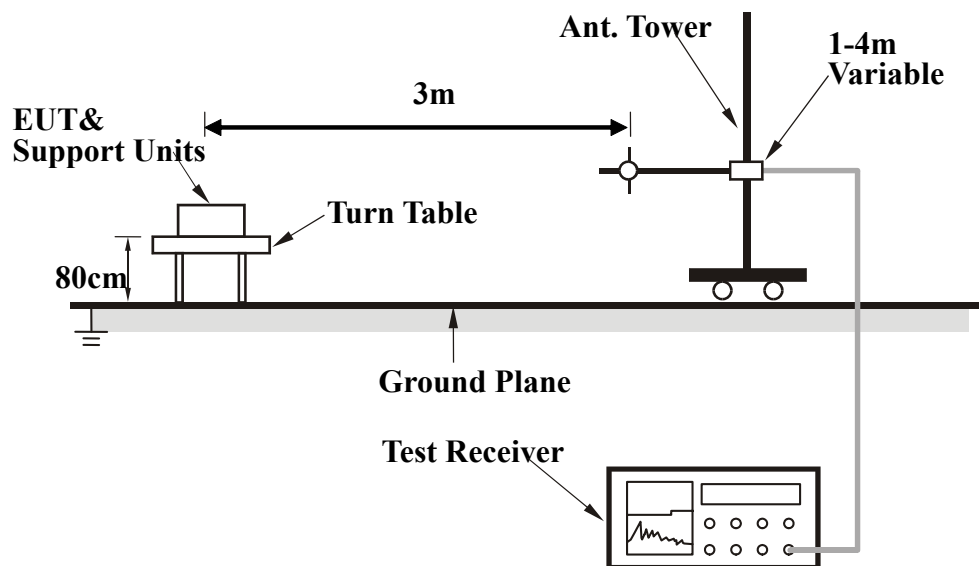
EUT Characterisation

EUT characterisation, over the frequency range from 30MHz to 10th Harmonic, was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer /receiver with the appropriate broadband antenna placed 3m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred, clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS) or 3m EMC chamber.

Test Set-up

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-conductive table.
2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.



Test Method

The following procedure was performed to determine the maximum emission axis of EUT:

1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

Final Radiated Emission Measurement

1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.
2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on an open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0° to 360° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.
5. Repeat step 4 until all frequencies need to be measured was complete.
6. Repeat step 5 with search antenna in vertical polarized orientations.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

| Frequency Band (MHz) | Function | Resolution bandwidth | Video Bandwidth |
|----------------------|----------|----------------------|-----------------|
| 30 to 1000 | Peak | 100 kHz | 100 kHz |
| Above 1000 | Peak | 1 MHz | 1 MHz |
| | Average | 1 MHz | 10 Hz |

Description of Radiated Emissions Program

This EMC Measurement software run LabView automation software and offers a common user interface for electromagnetic interference (EMI) measurements. This software is a modern and powerful tool for controlling and monitoring EMI test receivers and EMC test systems. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this program will run a pre-scan measurement before it proceeds with the final measurement. The pre-scan routine will run the scan on four different antenna heights, 2 antenna polarity, and 360 degrees table rotation. For example, the program was set to run 30 MHz to 1 GHz scan; the program will first start from a meter antenna height and divide the 30 MHz to 1 GHz into 10 separate parts of maximum hold sweeps. Each parts of maximum hold sweep, the program will collect the data from 0 degree to 360 degrees table rotation. After the program complete the 1m scan, the antenna continues to rise to 2m and continue the scan. The step will repeated for all specified antenna height and polarity. This program will perform the Quasi Peak measurement after the signal maximization process and pre-scan routine. The final measurement will be base on the pre-scan data reduction result.

Sample Calculation Example

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

$$\text{Peak} = \text{Reading} + \text{Corrected Factor}$$

where

Corr. Factor = Antenna Factor + Cable Factor - Amplifier Gain (if any)

And the average value is

$$\begin{aligned} \text{Average} &= \text{Peak Value} + \text{Duty Factor or} \\ \text{Set RBW} &= 1\text{MHz, VBW} = 10\text{Hz.} \end{aligned}$$

Note:

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function.

Radiated emission test facilities for frequencies above 1 GHz (ANSI C63.4-2009 Chapter 5.5)

Currently, test site reference validation requirements above 1 GHz have not been established. However, facilities suitable for measurements in the frequency range 30 MHz to 1000 MHz are considered suitable for the frequency range 1 GHz to 40 GHz with RF absorbing material covering the ground plane such that the site validation criterion called out in CISPR 16-1-4:2007 is met, or alternatively covering a minimum area of 2.4 m by 2.4 m (for a 3 m test distance) between the antenna and the EUT using RF absorbing material with a minimum-rated attenuation of 20 dB (for normal incidence) up to 18 GHz. For separation distances greater than 3 m, a proportional increase in the area of suitable absorbing material is required.

Annex B. EUT AND TEST SETUP PHOTOGRAPHS

Annex B.i. Photograph 1: EUT External Photo



Whole Package - Top View



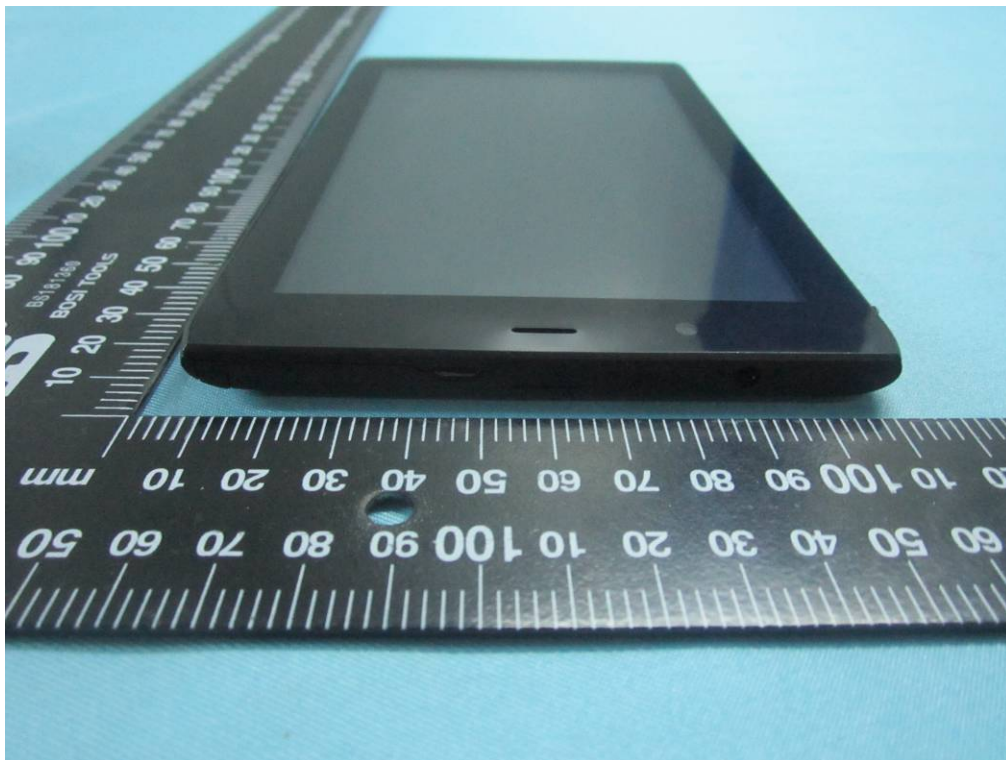
Adapter – Front View



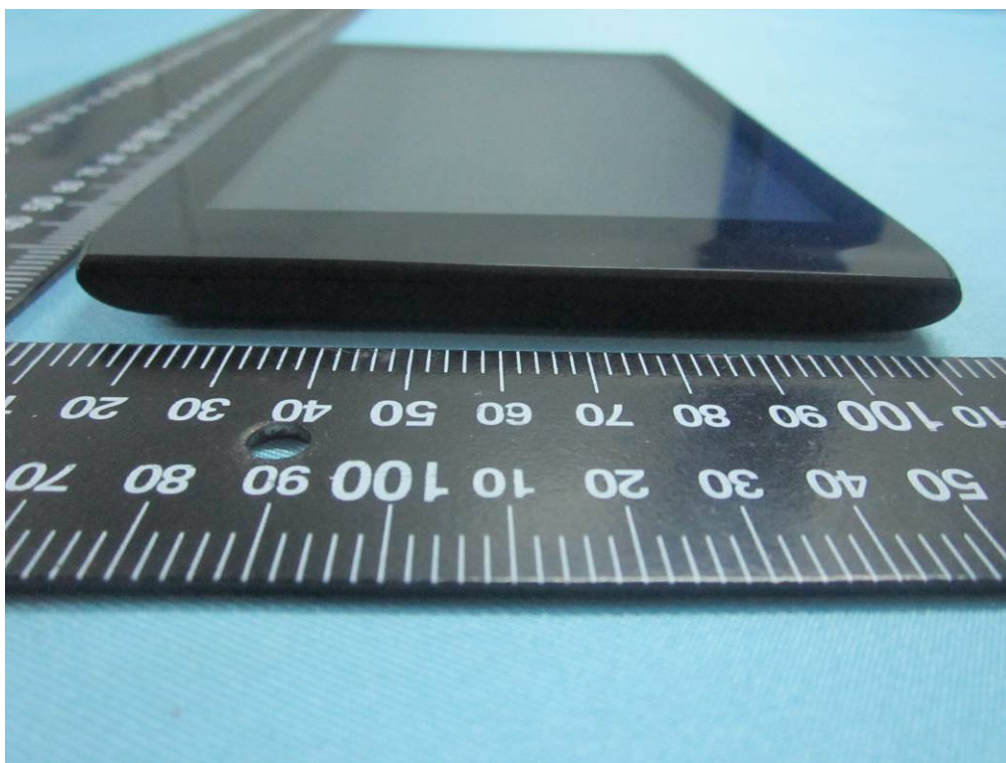
EUT - Front View



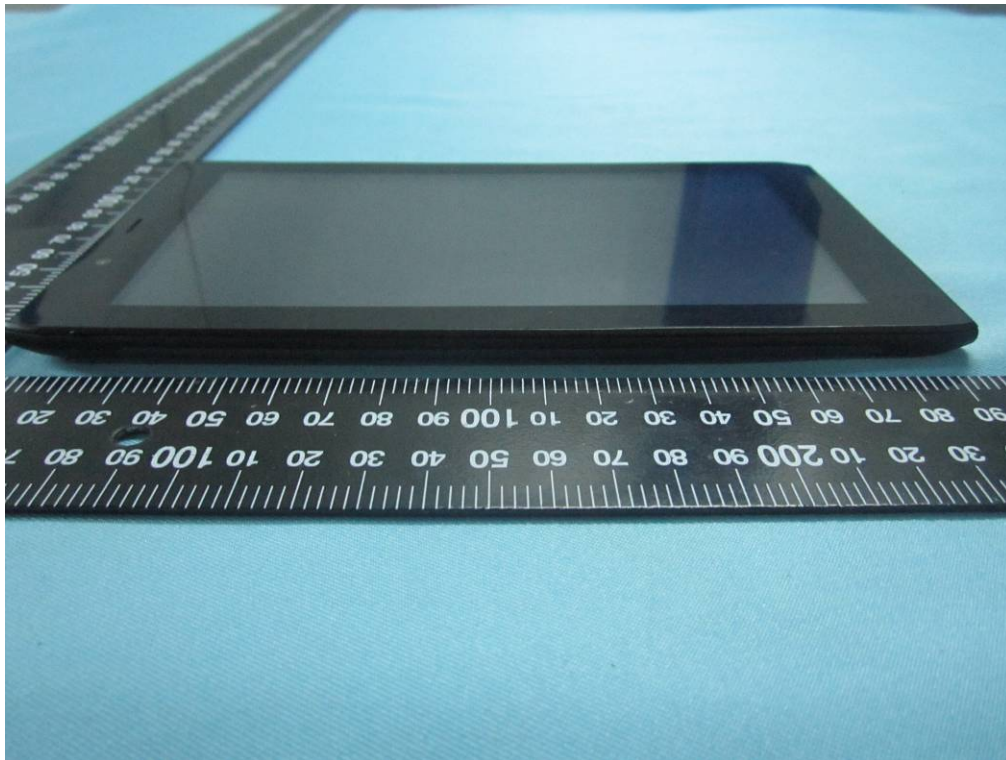
EUT - Rear View



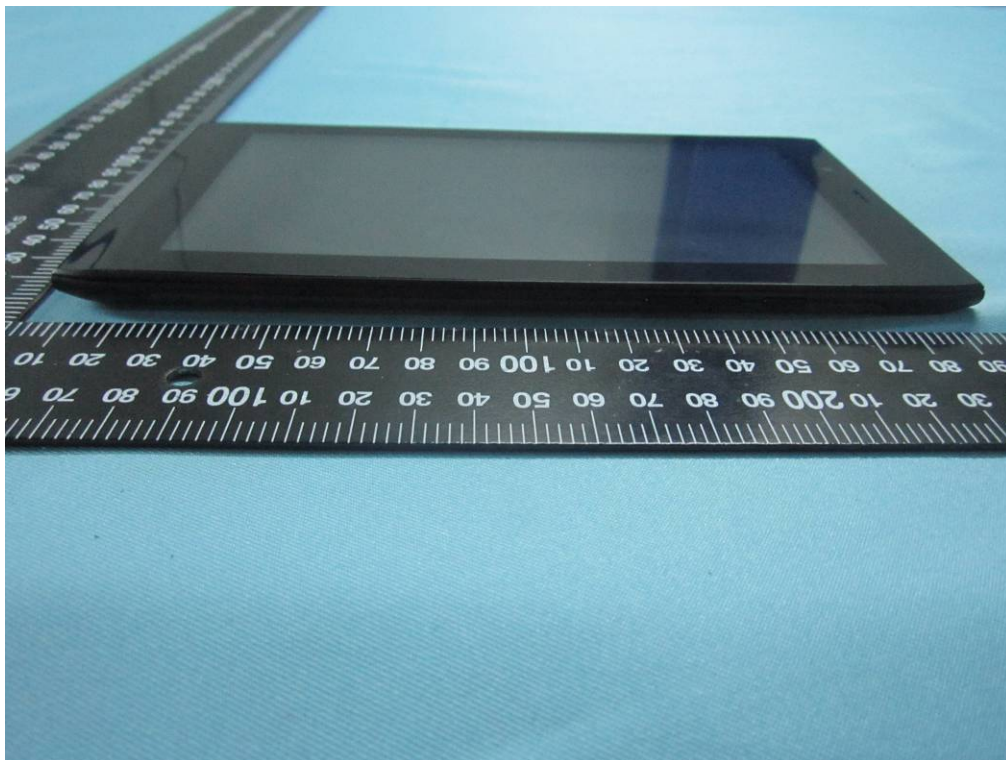
EUT - Top View



EUT - Bottom View



EUT - Left View

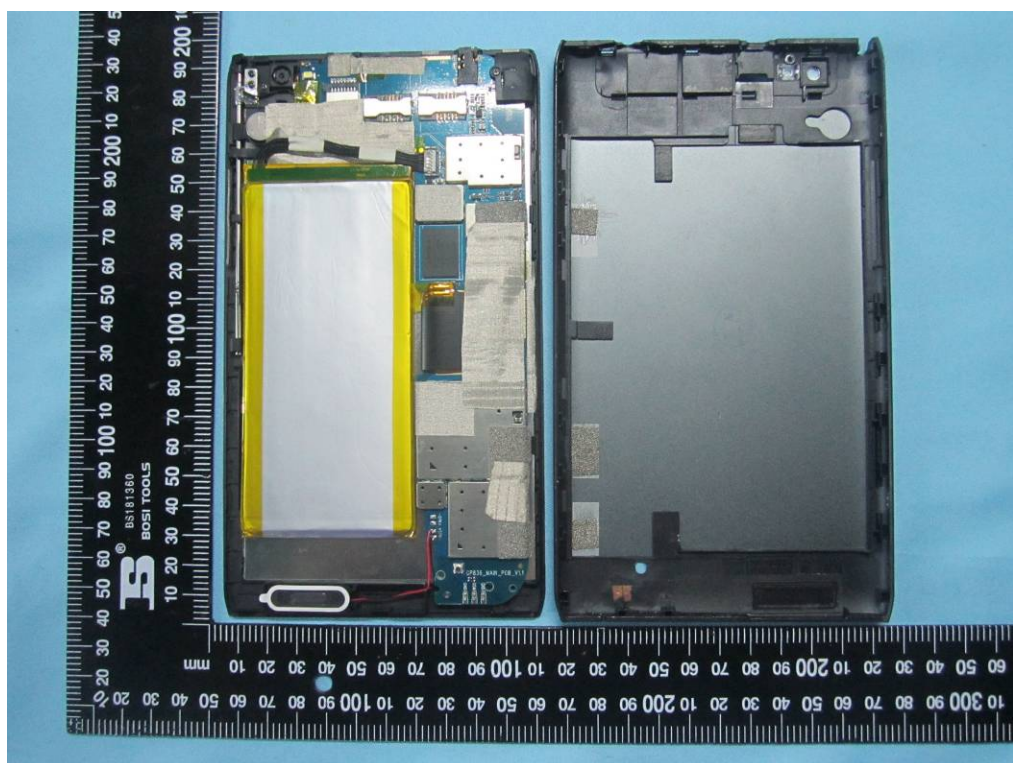


EUT - Right View

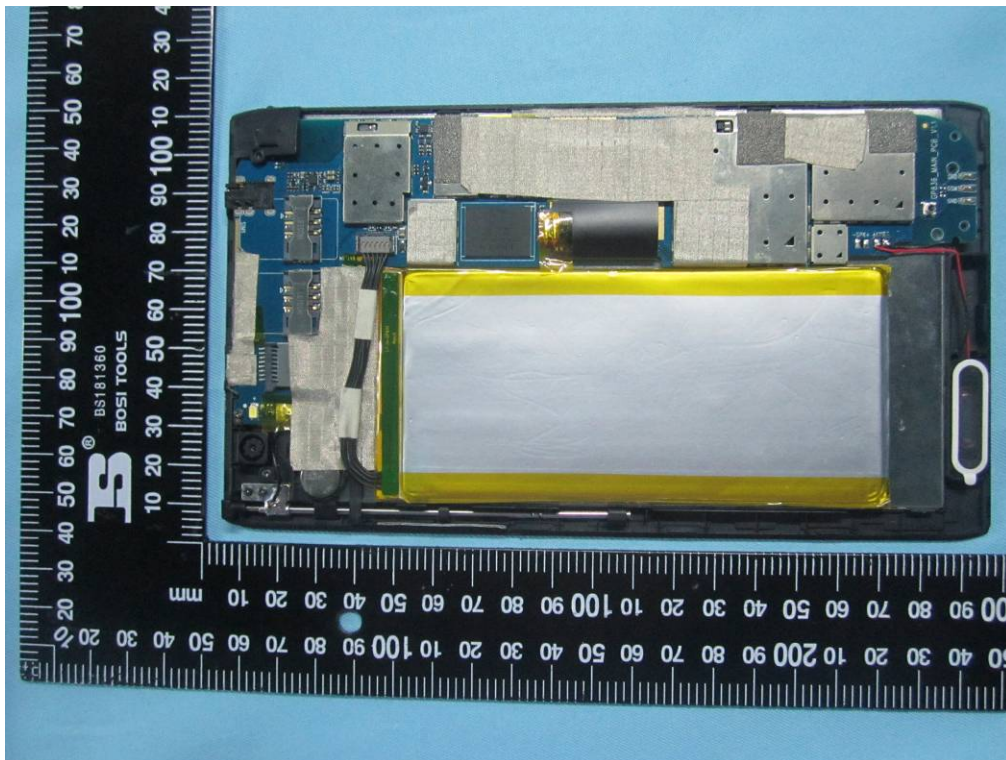
Annex B.ii. Photograph 2: EUT Internal Photo



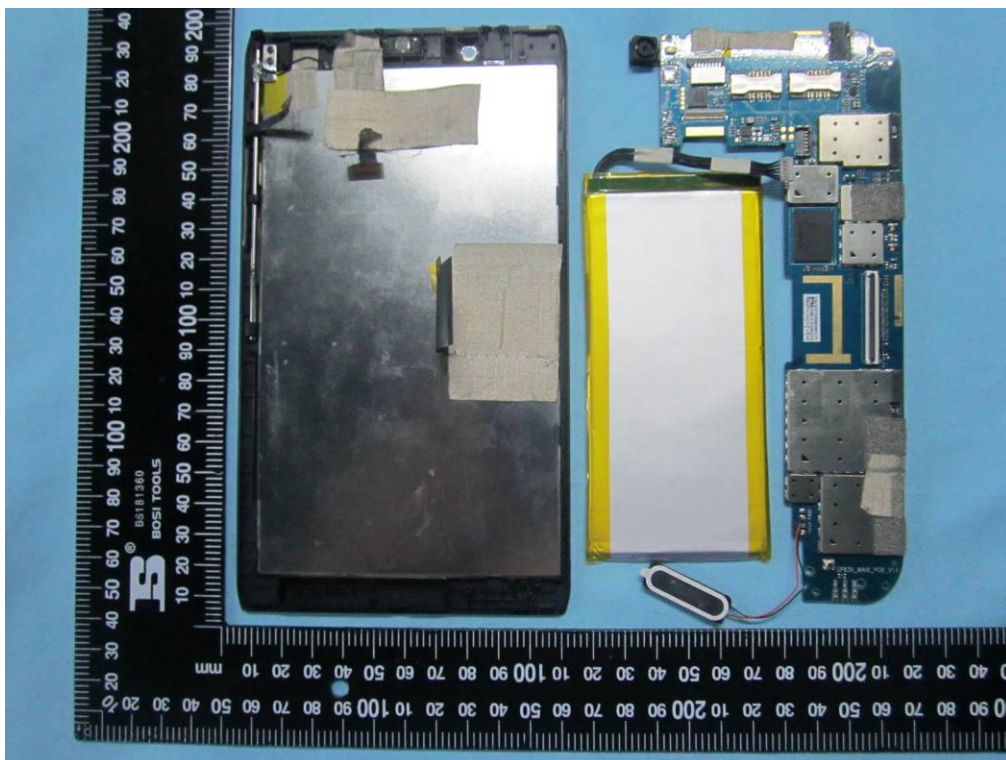
Cover Off - Top View 1



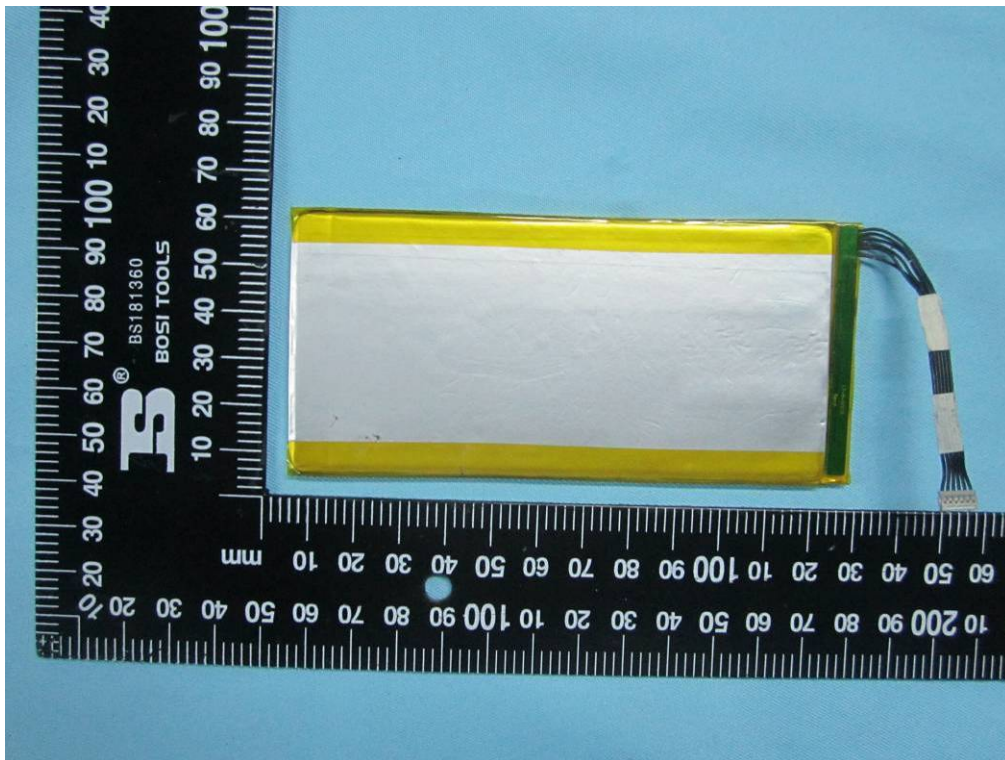
Cover Off - Top View 2



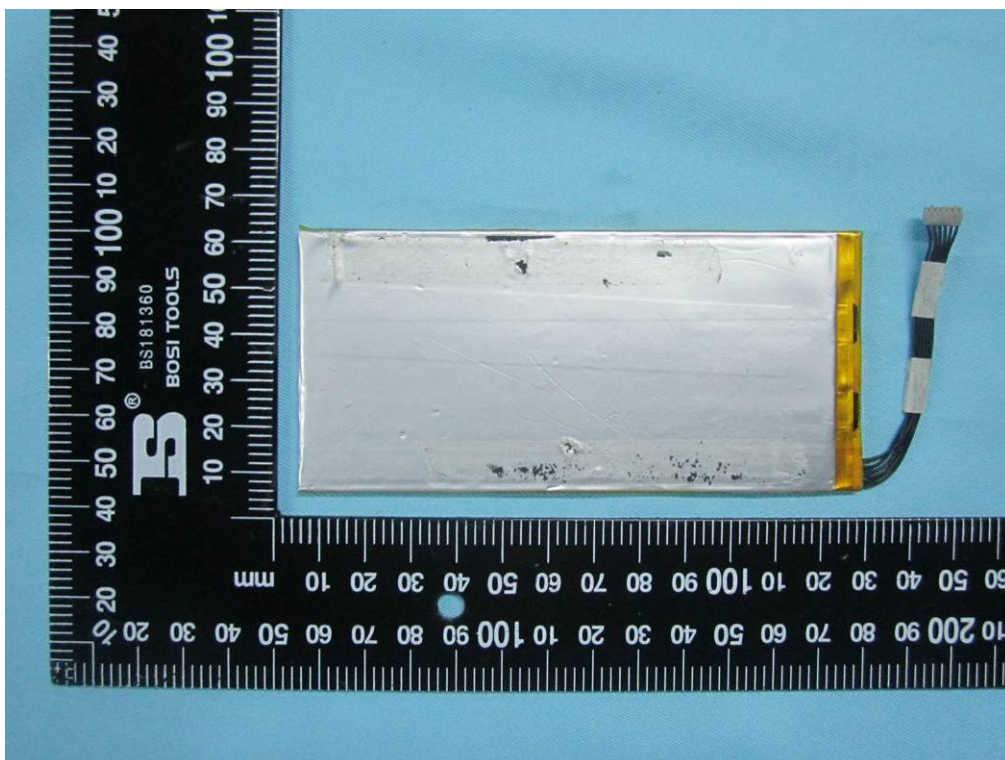
Cover Off - Top View 3



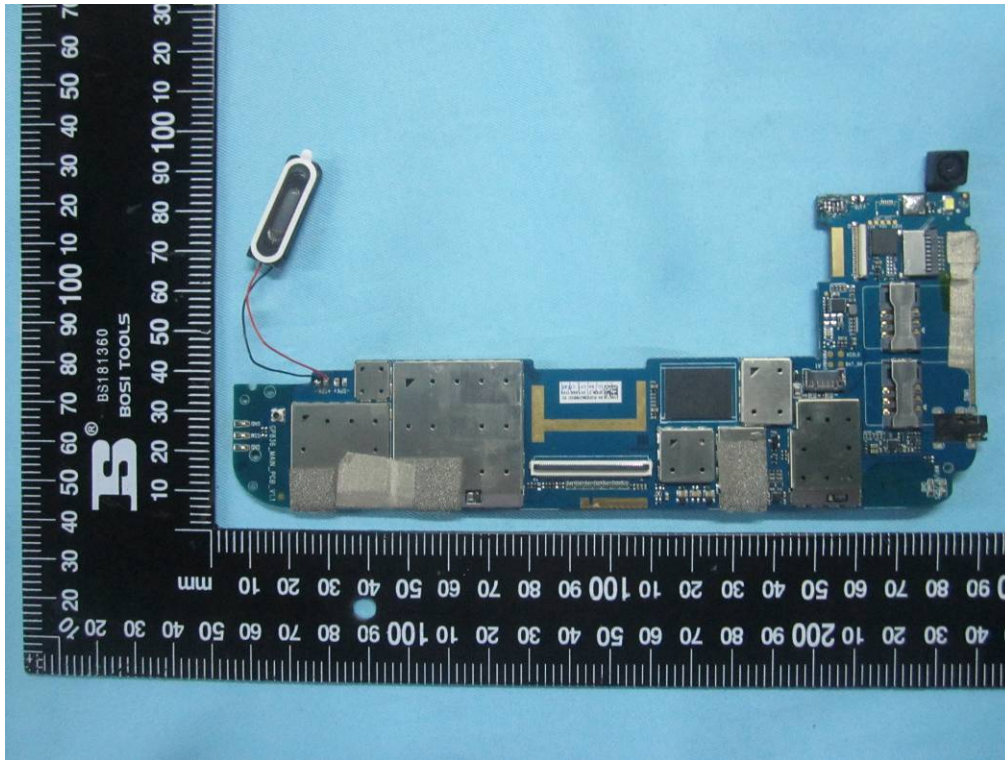
Cover Off - Top View 4



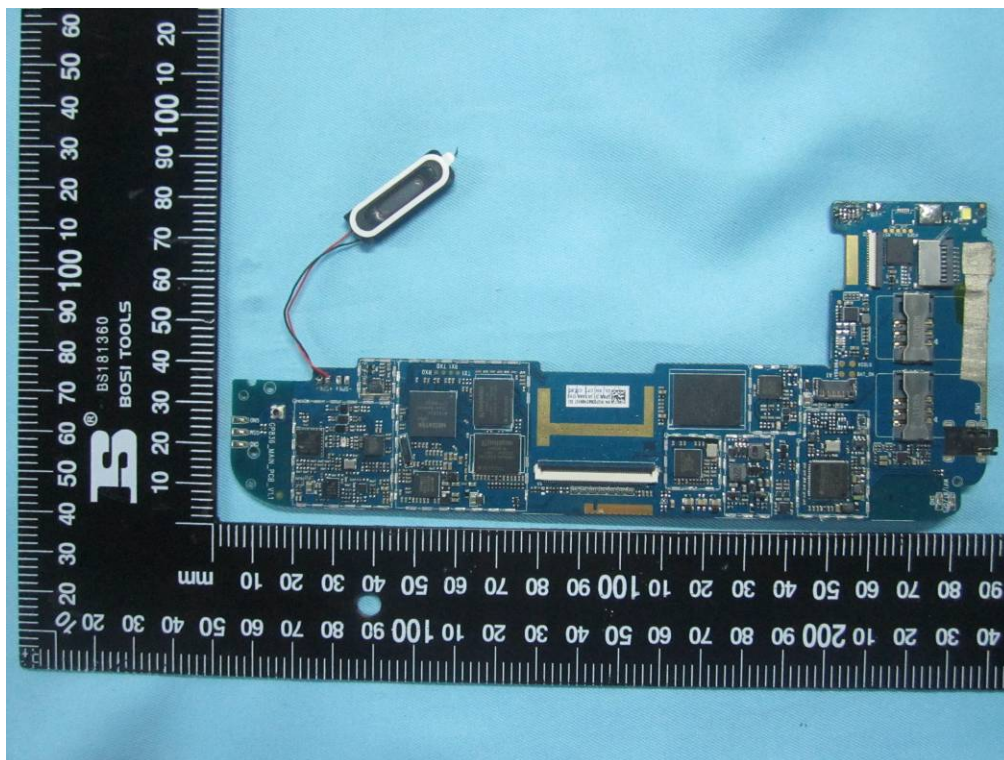
Battery - Front View



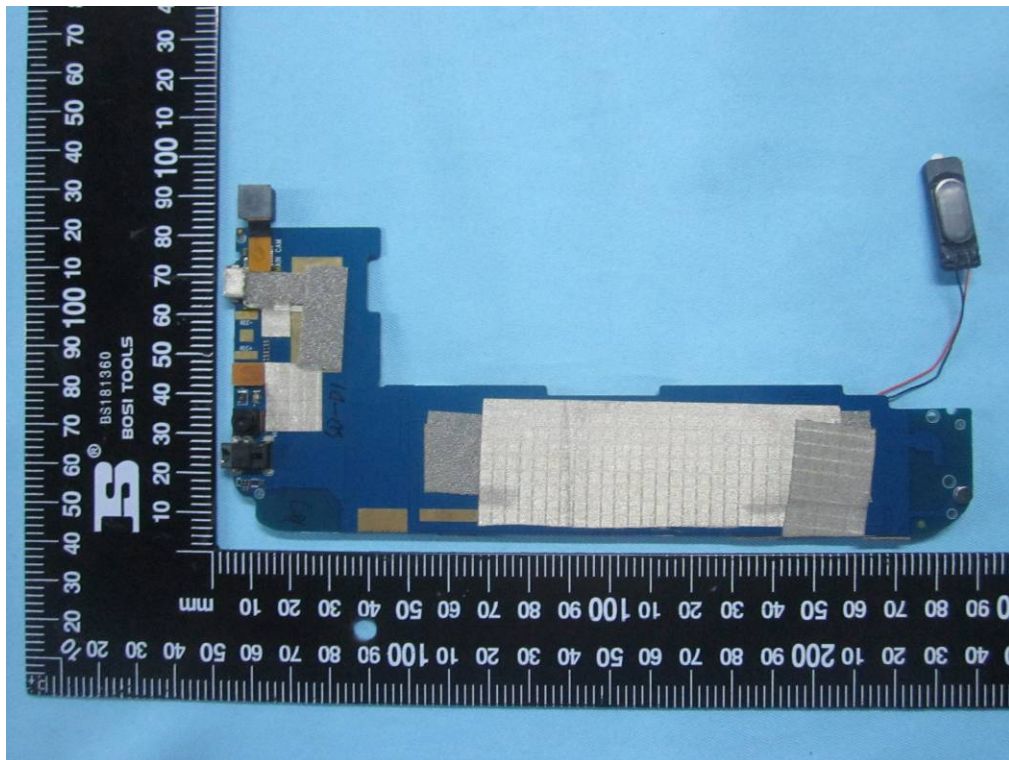
Battery – Rear View



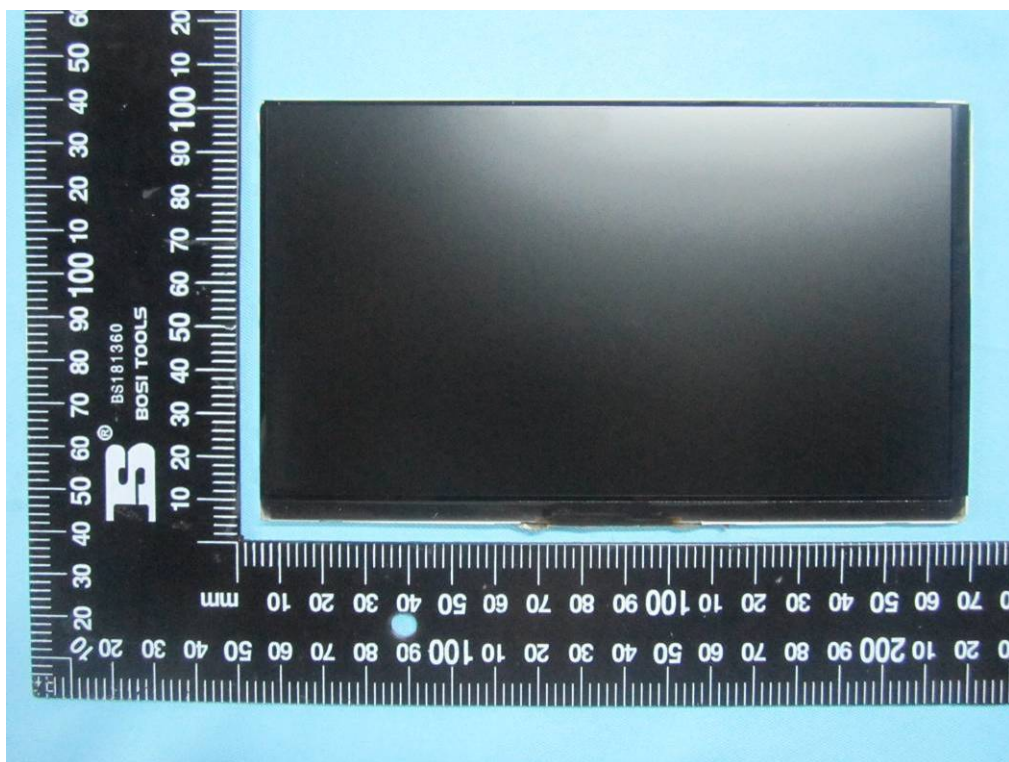
Mainboard With Shielding - Front View



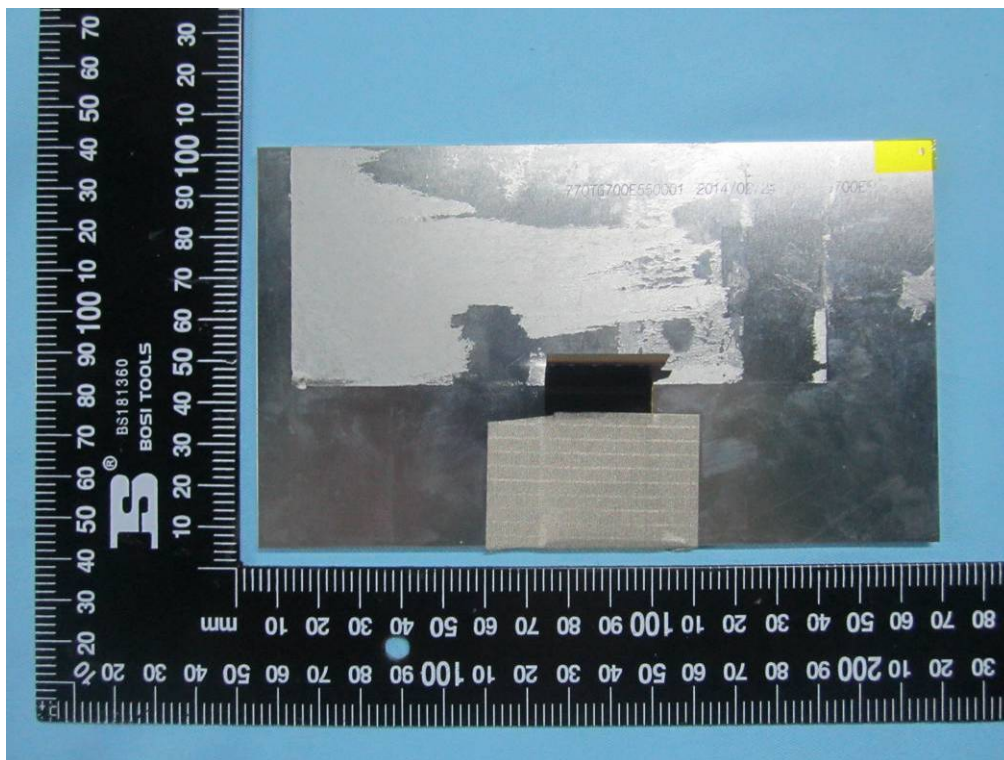
Mainboard Without Shielding - Front View



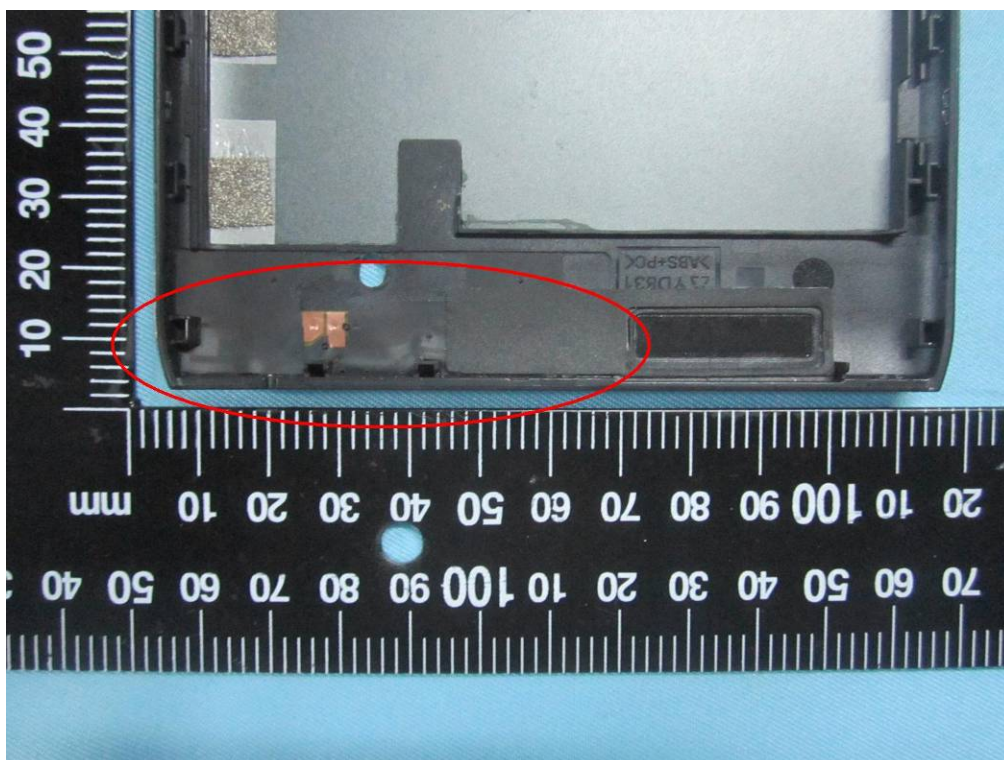
Mainborad – Rear View



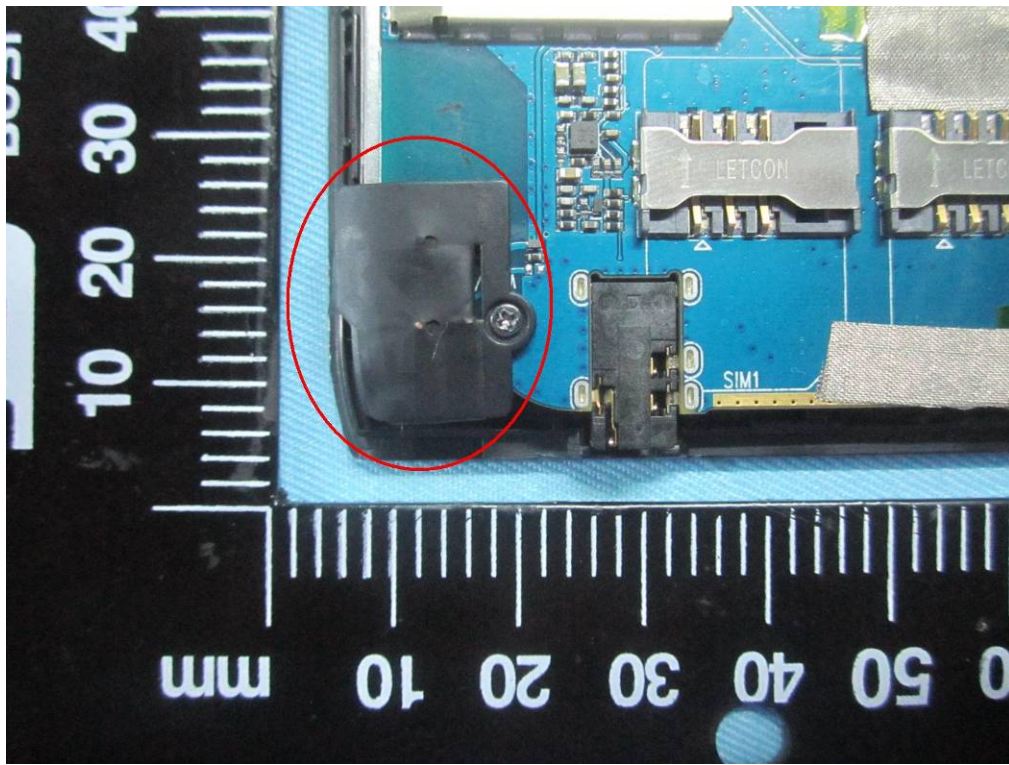
LCD - Front View



LCD - Rear View



GSM/PCS/UMTS-FDD Antenna View

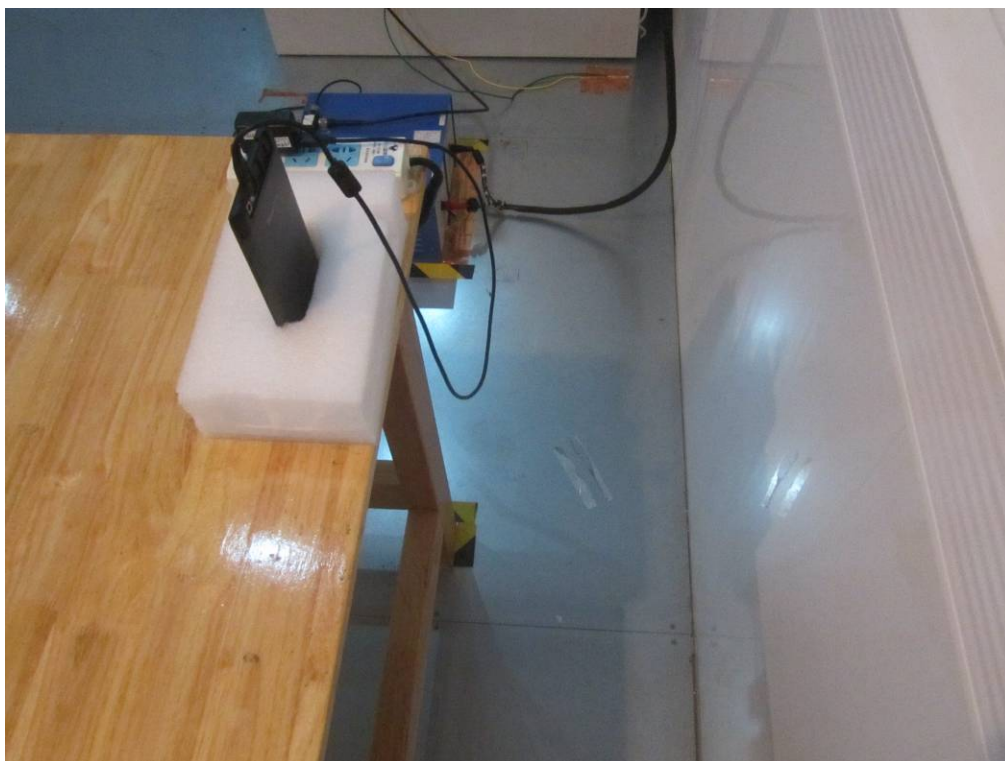


Bluetooth/WIFI Antenna View

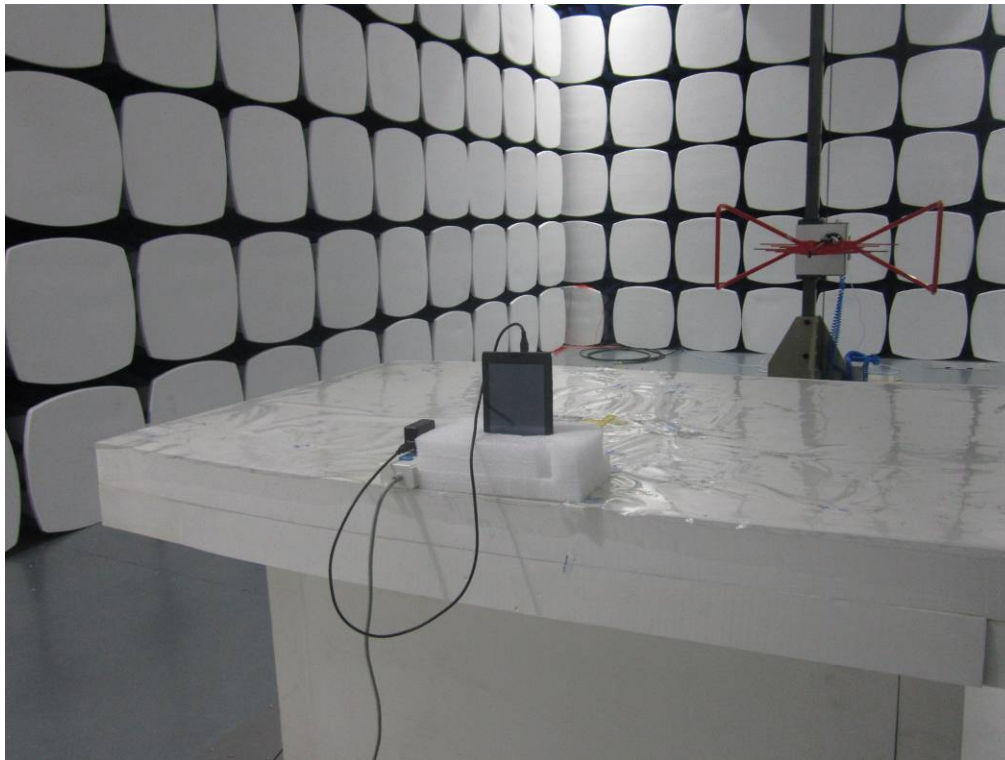
Annex B.iii. Photograph 3: Test Setup Photo



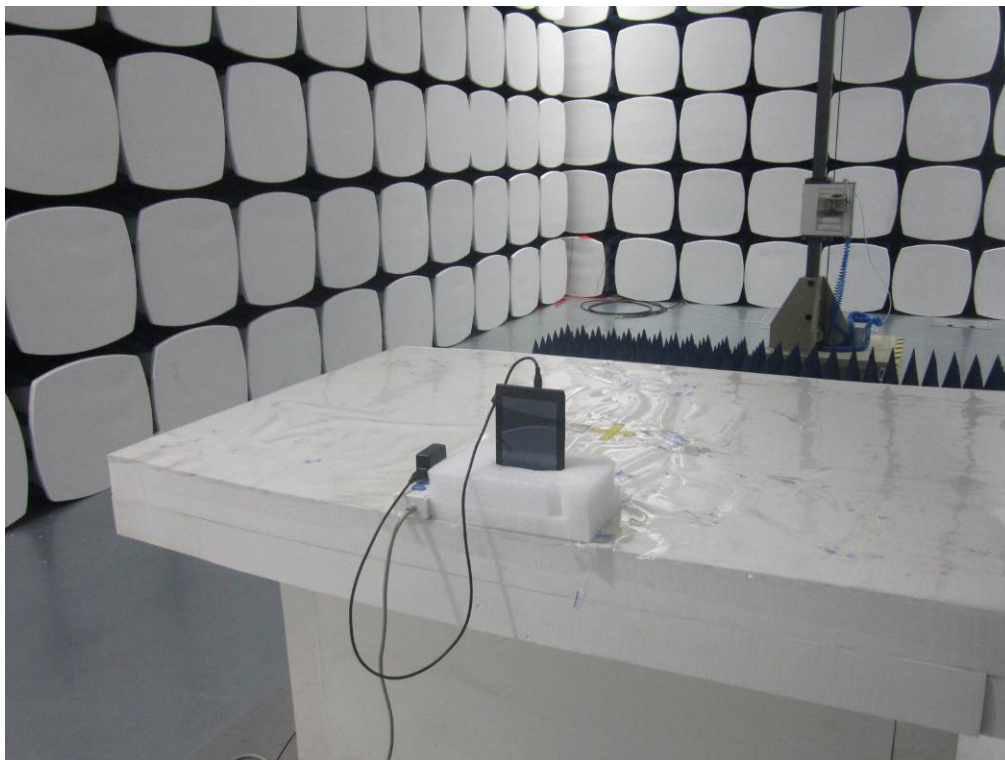
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz - Front View



Radiated Spurious Emissions Test Setup Above 1GHz –Front View

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

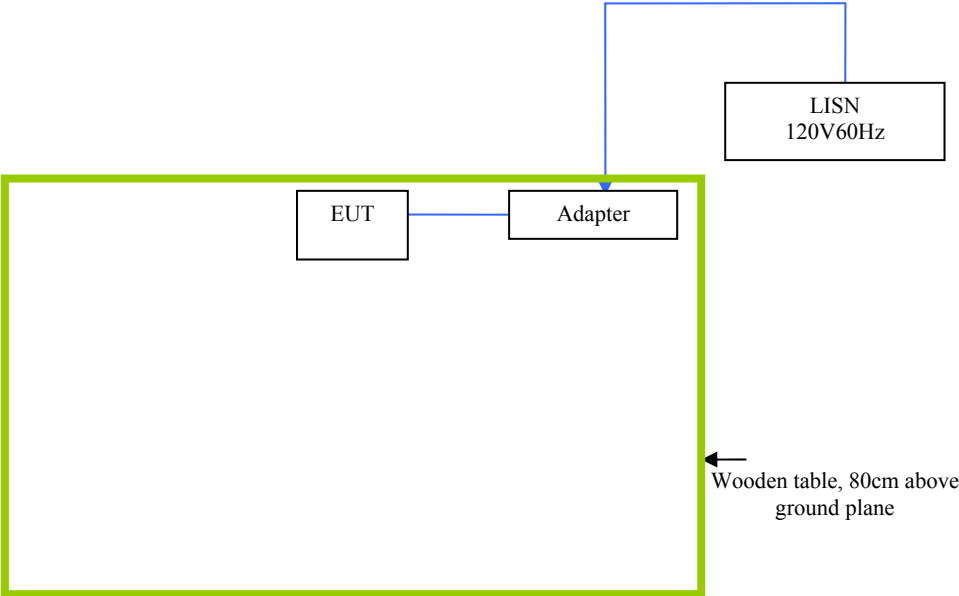
EUT TEST CONDITIONS

Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

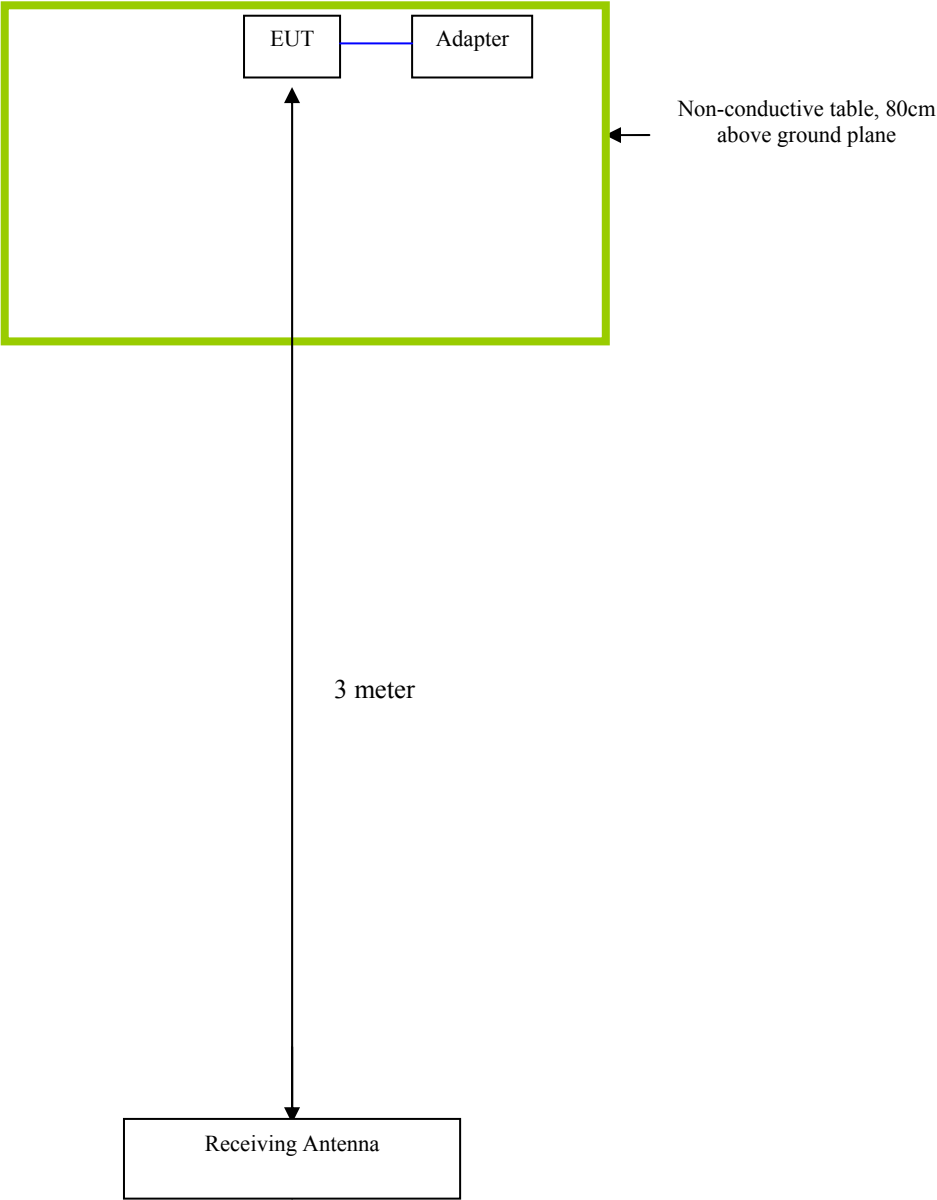
The following is a description of supporting equipment and details of cables used with the EUT.

| Manufacturer | Equipment Description (Including Brand Name) | Model | Calibration Date | Calibration Due Date |
|--------------|---|-------|------------------|----------------------|
| N/A | N/A | N/A | N/A | N/A |

Block Configuration Diagram for AC Line Conducted Emissions



Block Configuration Diagram for Radiated Emissions



Annex C.ii. EUT OPERATING CONDITIONS

The following is the description of how the EUT is exercised during testing.

| Test | Description Of Operation |
|-------------------|--|
| Emissions Testing | The EUT was continuously transmitting to stimulate the worst case. |

Annex D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST

Please see attachment

Annex E. DECLARATION OF SIMILARITY



Mexico City, May 8th 2014

COMERCIALIZADORA MILENIO SA DE CV.
Juan Salvador Agraz 65, 22nd Floor,
Mexico City 05300, Mexico
Tel: +5255 8851 4400
Date: 2014-05-08

Declaration of Similarity

To:

SIEMIC (Shenzhen-China) Laboratories

Zone A, Floor 1, Building 2, Wan Ye Long Technology Park,
South Side of Zhoushi Road,
Shiyan Street, Bao'an District, Shenzhen 518108, Guangdong, P.R.C.
Tel: +(86) 0755-26014629, 26014953, 27629948, 27628616-808

We, **COMERCIALIZADORA MILENIO S.A. DE C.V.**, hereby declare that our product, POLAROID PMID705GTV, Model: PMID705GTV includes two types: Type A and Type B, these two models are electrically and mechanically identical, share the same PCB Layout and components. And the only difference between them is that Type A has dual SIM card slots. Type B has single SIM card slot.

Sincerely,



Ronnie Vera
Engineering Manager