

FCC Test Report

Report No.: RF150626C12-1

FCC ID: ZQ6-AP6212SD

Test Model: AP6212SD

Received Date: June 26, 2015

Test Date: Aug. 27 to Sep. 16, 2015

Issued Date: July 29, 2016

Applicant: Ampak Technology Inc.

Address: No1. Jen Ai Road. Hokou, Hsinchu, Taiwan, 30352

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

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Chu Hsien 307, Taiwan R.O.C.

Test Location (3): E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,

Taiwan R.O.C.





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Release Control Record

| Issue No. | Description | Date Issued |
|---------------|-------------------|---------------|
| RF150626C12-1 | Original release. | July 29, 2016 |

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1 Certificate of Conformity

Product: WLAN module

Brand: Ampak

Test Model: AP6212SD

Sample Status: ENGINEERING SAMPLE

Applicant: Ampak Technology Inc.

Test Date: Aug. 27 to Sep. 16, 2015

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)

ANSI C63.10: 2013

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

| Prepared by : | , Date: | July 29, 2016 | |
|---------------|---------|---------------|--|
| | | | |

Elsie Hsu / Specialist

May Chen / Manager

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2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart C (SECTION 15.247) | | | | | | | |
|--|--|--------|---|--|--|--|--|
| FCC Clause | Test Item | Result | Remarks | | | | |
| 15.207 | AC Power Conducted Emission | PASS | Meet the requirement of limit. Minimum passing margin is -7.18dB at 0.17997MHz. | | | | |
| 15.247(a)(1) (iii) | Number of Hopping Frequency Used | PASS | Meet the requirement of limit. | | | | |
| 15.247(a)(1) (iii) | Dwell Time on Each Channel | PASS | Meet the requirement of limit. | | | | |
| 15.247(a)(1) | Hopping Channel Separation Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System | PASS | Meet the requirement of limit. | | | | |
| 15.247(b) | Maximum Peak Output Power | PASS | Meet the requirement of limit. | | | | |
| 15.205 / 15.209 / 15.247(d) | Radiated Emissions and Band Edge Measurement | PASS | Meet the requirement of limit. Minimum passing margin is -4.54dB at 498.849MHz | | | | |
| 15.247(d) | Antenna Port Emission | PASS | Meet the requirement of limit. | | | | |
| 15.203 | Antenna Requirement | PASS | Antenna connector is I-PEX MHF4 not a standard connector. | | | | |

NOTE: If The Frequency Hopping System operating in 2400-2483.5MHz band and the output power less than 125mW. The hopping channel carrier frequencies separated by a minimum of 25kHz or two-thirds of the 20dB bandwidth of hopping channel whichever is greater.

2.1 Measurement Uncertainty

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

| Measurement | Frequency | Expended Uncertainty (k=2) (±) |
|------------------------------------|----------------|--------------------------------|
| Conducted Emissions at mains ports | 150kHz ~ 30MHz | 2.86 dB |
| Radiated Emissions up to 1 GHz | 30MHz ~ 1GHz | 5.37 dB |
| | 1GHz ~6GHz | 3.65 dB |
| Radiated Emissions above 1 GHz | 6GHz ~ 18GHz | 3.88 dB |
| | 18GHz ~ 40GHz | 4.11 dB |

2.2 Modification Record

There were no modifications required for compliance.

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3 General Information

3.1 General Description of EUT

| Product | WLAN module | | | |
|-----------------------|----------------------------|--|--|--|
| Brand | Ampak | | | |
| Test Model | AP6212SD | | | |
| Status of EUT | ENGINEERING SAMPLE | | | |
| Test Software Version | Blue toolV1.9.1.4 | | | |
| Power Supply Rating | 3.3Vdc from host equipment | | | |
| Modulation Type | GFSK, π/4-DQPSK, 8DPSK | | | |
| Modulation Technology | FHSS | | | |
| Transfer Rate | Up to 3Mbps | | | |
| Operating Frequency | 2402MHz ~ 2480MHz | | | |
| Number of Channel | 79 | | | |
| Output Power | 5.248mW | | | |
| Antenna Type | Refer to Note | | | |
| Antenna Connector | Refer to Note | | | |
| Accessory Device | NA1 | | | |
| Data Cable Supplied | NA | | | |

Note:

- 1. There are Bluetooth technology and WLAN technology used for the EUT.
- 2. WLAN and BT technology can't transmit at same time.

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

| Brand | Model | Gain (dBi) Excluding cable loss | Cable Loss (dB) | Frequency range (MHz to MHz) | Antenna Type | Connecter Type |
|-------|-------|---------------------------------|--------------------|---------------------------------|-----------------|----------------|
| INPAQ | NA | 3.53 | 2.4G: 0.5 5G: 1 | 2400~2500 | PIFA | I-PEX MHF4 |

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

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3.2 Description of Test Modes

79 channels are provided for BT-EDR mode:

| Channel | Freq. (MHz) | Channel | Freq. (MHz) | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|---------|----------------|---------|----------------|---------|----------------|---------|----------------|
| 0 | 2402 | 20 | 2422 | 40 | 2442 | 60 | 2462 |
| 1 | 2403 | 21 | 2423 | 41 | 2443 | 61 | 2463 |
| 2 | 2404 | 22 | 2424 | 42 | 2444 | 62 | 2464 |
| 3 | 2405 | 23 | 2425 | 43 | 2445 | 63 | 2465 |
| 4 | 2406 | 24 | 2426 | 44 | 2446 | 64 | 2466 |
| 5 | 2407 | 25 | 2427 | 45 | 2447 | 65 | 2467 |
| 6 | 2408 | 26 | 2428 | 46 | 2448 | 66 | 2468 |
| 7 | 2409 | 27 | 2429 | 47 | 2449 | 67 | 2469 |
| 8 | 2410 | 28 | 2430 | 48 | 2450 | 68 | 2470 |
| 9 | 2411 | 29 | 2431 | 49 | 2451 | 69 | 2471 |
| 10 | 2412 | 30 | 2432 | 50 | 2452 | 70 | 2472 |
| 11 | 2413 | 31 | 2433 | 51 | 2453 | 71 | 2473 |
| 12 | 2414 | 32 | 2434 | 52 | 2454 | 72 | 2474 |
| 13 | 2415 | 33 | 2435 | 53 | 2455 | 73 | 2475 |
| 14 | 2416 | 34 | 2436 | 54 | 2456 | 74 | 2476 |
| 15 | 2417 | 35 | 2437 | 55 | 2457 | 75 | 2477 |
| 16 | 2418 | 36 | 2438 | 56 | 2458 | 76 | 2478 |
| 17 | 2419 | 37 | 2439 | 57 | 2459 | 77 | 2479 |
| 18 | 2420 | 38 | 2440 | 58 | 2460 | 78 | 2480 |
| 19 | 2421 | 39 | 2441 | 59 | 2461 | | |

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3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT CONFIGURE | | APPLICABLE TO | | | DESCRIPTION |
|------------------|----------|---------------|----------|------|-------------|
| MODE | RE≥1G | RE<1G | PLC | APCM | DESCRIPTION |
| А | V | V | V | √ | |

Where

RE≥1G: Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission APCM: Antenna Port Conducted Measurement

NOTE:

Radiated Emission Test (Above 1GHz):

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

| AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | PACKET TYPE |
|----------------------|-------------------|--------------------------|--------------------|-------------|
| 0 to 78 | 0, 39, 78 | FHSS | GFSK | DH5 |
| 0 to 78 | 0, 39, 78 | FHSS | 8DPSK | DH5 |

Radiated Emission Test (Below 1GHz):

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

| AVAILABLE CHANNEL | | | MODULATION TYPE | PACKET TYPE |
|----------------------|---|------|--------------------|-------------|
| 0 to 78 | 0 | FHSS | GFSK | DH5 |

Power Line Conducted Emission Test:

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

| AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | PACKET TYPE |
|----------------------|-------------------|--------------------------|--------------------|-------------|
| 0 to 78 | 0 | FHSS | GFSK | DH5 |

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^{1.} The EUT's antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.



Antenna Port Conducted Measurement:

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

| AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | PACKET TYPE | |
|----------------------|-------------------|--------------------------|--------------------|-------------|--|
| 0 to 78 | 0, 39, 78 | FHSS | GFSK | DH5 | |
| 0 to 78 | 0, 39, 78 | FHSS | 8DPSK | DH5 | |

Test Condition:

| APPLICABLE TO | ENVIRONMENTAL CONDITIONS | INPUT POWER (SYSTEM) | TESTED BY | |
|---------------|--------------------------|----------------------|--------------|--|
| RE≥1G | 26deg. C, 61%RH | 120\/00_60 . 7 | Waiwai La | |
| RE21G | 25deg. C, 70%RH | 120Vac, 60Hz | Weiwei Lo | |
| RE<1G | 24deg. C, 68%RH | 120Vac, 60Hz | Weiwei Lo | |
| PLC | 26deg. C, 65%RH | 120Vac, 60Hz | JyunChun.Lin | |
| APCM | 25deg. C, 60%RH | 120Vac, 60Hz | Look Huang | |

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3.3 Description of Support Units

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

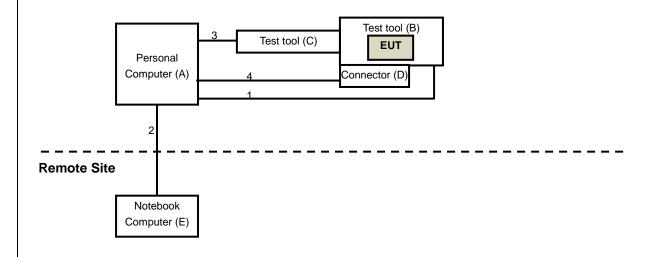
| ID | Product | Brand | Model No. | Serial No. | FCC ID | Remarks |
|----|-------------------|---------------------|-----------|------------|--------|--------------------|
| A. | Personal Computer | ASUS | P5KPL | NA | NA | Provided by Lab |
| В. | Test tool | AMPAK Technology | NA | NA | NA | Supplied by Client |
| C. | Test tool | AMPAK Technology | NA | NA | NA | Supplied by Client |
| D. | Connector | AMPAK Technology | NA | NA | NA | Supplied by Client |
| E. | Notebook Computer | DELL | E5430 | 4YV4VY1 | NA | Provided by Lab |

Note:

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

| ID | Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks |
|----|--------------|------|------------|-----------------------|--------------|--------------------|
| 1. | mini USB | 1 | 1.8 | Yes | 0 | Provided by Lab |
| 2. | RJ45 | 1 | 10 | No | 0 | Provided by Lab |
| 3. | Data | 1 | 1 | No | 0 | Supplied by Client |
| 4. | mini USB | 1 | 1.2 | Yes | 0 | Provided by Lab |

3.3.1 Configuration of System under Test



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General Description of Applied Standards 3.4 The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards: FCC Part 15, Subpart C (15.247) **FCC Public Notice DA 00-705** ANSI C63.10-2013 All test items have been performed and recorded as per the above standards.

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4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

NOTE:

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

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4.1.2 Test Instruments

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|--------------------------------------|-----------------------|---|-----------------|------------------|
| Test Receiver Agilent | N9038A | MY51210105 | July 24, 2015 | July 23, 2016 |
| Pre-Amplifier Mini-Circuits | ZFL-1000VH2 B | AMP-ZFL-03 | Nov. 12, 2014 | Nov. 11, 2015 |
| Trilog Broadband Antenna SCHWARZBECK | VULB 9168 | 9168-360 | Feb. 06, 2015 | Feb. 05, 2016 |
| RF Cable | 8D-FB | CHGCAB-001 -1 CHGCAB-001 -2 | | Oct. 03, 2015 |
| | RF-141 | CHGCAB-004 | Oct. 04, 2014 | Oct. 03, 2015 |
| Horn_Antenna AISI | AIH.8018 | 000032009111 0 | Feb. 09, 2015 | Feb. 08, 2016 |
| Pre-Amplifier Agilent | 8449B | 3008A02578 | June 23, 2015 | June 22, 2016 |
| RF Cable | NA | 131205 131216 131217 SNMY23684/ 4 | Jan. 16, 2015 | Jan. 15, 2016 |
| Spectrum Analyzer R&S | FSV40 | 100964 | June 26, 2015 | June 25, 2016 |
| Pre-Amplifier SPACEK LABS | SLKKa-48-6 | 9K16 | Dec. 12, 2014 | Dec. 11, 2015 |
| Horn_Antenna SCHWARZBECK | BBHA 9170 | 9170-424 | Feb. 05, 2015 | Feb. 04, 2016 |
| RF Cable | NA | 329751/4 RF104-204 | Dec. 11, 2014 | Dec. 10, 2015 |
| Software | ADT_Radiated _V8.7.07 | NA | NA | NA |
| Antenna Tower & Turn Table Ct | NA | NA | NA | NA |
| Spectrum Analyzer R&S | FSP40 | 100060 | May 08, 2015 | May 07, 2016 |

Note:

- 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- 2. The test was performed in 966 Chamber No. G.
- 3. The FCC Site Registration No. is 966073.
- 4. The VCCI Site Registration No. is G-137.
- 5. The CANADA Site Registration No. is IC 7450H-2.6. Tested Date: Aug. 27, 2015 to Sep. 16, 2015



4.1.3 Test Procedures

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

Note:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- 3. For Average measurement, due to the DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 * 5 per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: 20log(3.125 / 100)= -30.1 dB, therefore Average value = peak reading + 20log(duty cycle).
- 4. All modes of operation were investigated and the worst-case emissions are reported.

| | 4.1.4 | Deviation from Test Standard |
|--|-------|-------------------------------------|
|--|-------|-------------------------------------|

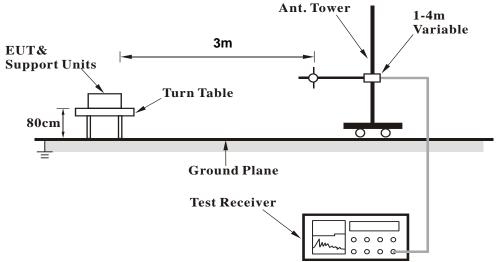
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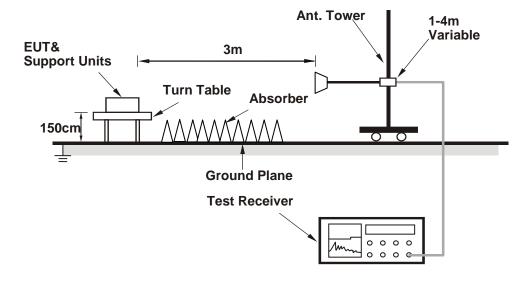


4.1.5 Test Setup

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



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

4.1.6 EUT Operating Conditions

- 1. Connect the EUT with the support unit E (Notebook Computer) which is placed on remote site.
- 2. Controlling software (Blue toolV1.9.1.4) has been activated to set the EUT on specific status.

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4.1.7 Test Results

ABOVE 1GHz DATA:

BT_GFSK

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

| | ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | | |
|-----|---|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|--|--|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | | |
| 1 | 2390.00 | 54.4 PK | 74.0 | -19.6 | 1.38 H | 300 | 54.52 | -0.12 | | |
| 2 | 2390.00 | 24.3 AV | 54.0 | -29.7 | 1.38 H | 300 | 24.42 | -0.12 | | |
| 3 | *2402.00 | 103.7 PK | | | 1.38 H | 300 | 103.79 | -0.09 | | |
| 4 | *2402.00 | 73.6 AV | | | 1.38 H | 300 | 73.69 | -0.09 | | |
| 5 | 4804.00 | 50.4 PK | 74.0 | -23.6 | 1.88 H | 222 | 41.43 | 8.97 | | |
| 6 | 4804.00 | 20.3 AV | 54.0 | -33.7 | 1.88 H | 222 | 11.33 | 8.97 | | |
| | | ANITENNI | A DOL A DITA | O TECT DI | CTANCE, V | EDTICAL A | T 2 M | | | |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 2390.00 | 53.2 PK | 74.0 | -20.8 | 2.14 V | 195 | 53.32 | -0.12 |
| 2 | 2390.00 | 23.1 AV | 54.0 | -30.9 | 2.14 V | 195 | 23.22 | -0.12 |
| 3 | *2402.00 | 94.7 PK | | | 2.14 V | 195 | 94.79 | -0.09 |
| 4 | *2402.00 | 64.6 AV | | | 2.14 V | 195 | 64.69 | -0.09 |
| 5 | 4804.00 | 52.8 PK | 74.0 | -21.2 | 1.72 V | 328 | 43.83 | 8.97 |
| 6 | 4804.00 | 22.7 AV | 54.0 | -31.3 | 1.72 V | 328 | 13.73 | 8.97 |

REMARKS:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.
- 6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 * 5 per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: 20log(3.125 / 100)= -30.1 dB
- 7. Average value = peak reading + 20log(duty cycle).

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

| | ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|-----|---|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|--|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | |
| 1 | *2441.00 | 103.4 PK | | | 1.36 H | 360 | 103.30 | 0.10 | |
| 2 | *2441.00 | 73.3 AV | | | 1.36 H | 360 | 73.20 | 0.10 | |
| 3 | 4882.00 | 50.9 PK | 74.0 | -23.1 | 1.89 H | 159 | 41.77 | 9.13 | |
| 4 | 4882.00 | 20.8 AV | 54.0 | -33.2 | 1.89 H | 159 | 11.67 | 9.13 | |
| 5 | 7323.00 | 55.1 PK | 74.0 | -18.9 | 1.89 H | 159 | 38.56 | 16.54 | |
| 6 | 7323.00 | 25.0 AV | 54.0 | -29.0 | 1.89 H | 159 | 8.46 | 16.54 | |
| | | ANTENNA | POLARITY | & TEST DI | STANCE: V | ERTICAL A | T 3 M | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | |
| 1 | *2441.00 | 94.6 PK | | | 2.13 V | 214 | 94.50 | 0.10 | |
| 2 | *2441.00 | 64.5 AV | | | 2.13 V | 214 | 64.40 | 0.10 | |
| 3 | 4882.00 | 53.0 PK | 74.0 | -21.0 | 1.71 V | 331 | 43.87 | 9.13 | |
| 4 | 4882.00 | 22.9 AV | 54.0 | -31.1 | 1.71 V | 331 | 13.77 | 9.13 | |
| 5 | 7323.00 | 55.2 PK | 74.0 | -18.8 | 1.71 V | 331 | 38.66 | 16.54 | |
| 6 | 7323.00 | 25.1 AV | 54.0 | -28.9 | 1.71 V | 331 | 8.56 | 16.54 | |

REMARKS:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.
- 6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 * 5 per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: 20log(3.125 / 100)= -30.1 dB
- 7. Average value = peak reading + 20log(duty cycle).

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| CHANNEL | TX Channel 78 | DETECTOR | Deals (DIC) |
|-----------------|---------------|----------|-------------|
| FREQUENCY RANGE | 1GHz ~ 25GHz | FUNCTION | Peak (PK) |

| | | ANTENNA I | POLARITY 8 | & TEST DIS | TANCE: HO | RIZONTAL | AT 3 M | _ |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2480.00 | 103.6 PK | | | 1.32 H | 360 | 103.30 | 0.30 |
| 2 | *2480.00 | 73.5 AV | | | 1.32 H | 360 | 73.20 | 0.30 |
| 3 | 2483.50 | 54.8 PK | 74.0 | -19.2 | 1.32 H | 360 | 54.49 | 0.31 |
| 4 | 2483.50 | 24.7 AV | 54.0 | -29.3 | 1.32 H | 360 | 24.39 | 0.31 |
| 5 | 4960.00 | 50.8 PK | 74.0 | -23.2 | 1.93 H | 164 | 41.37 | 9.43 |
| 6 | 4960.00 | 20.7 AV | 54.0 | -33.3 | 1.93 H | 164 | 11.27 | 9.43 |
| 7 | 7440.00 | 55.2 PK | 74.0 | -18.8 | 1.93 H | 164 | 38.55 | 16.65 |
| 8 | 7440.00 | 25.1 AV | 54.0 | -28.9 | 1.93 H | 164 | 8.45 | 16.65 |
| | | ANTENNA | POLARITY | & TEST DI | STANCE: V | ERTICAL A | T 3 M | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2480.00 | 94.8 PK | | | 2.10 V | 203 | 94.50 | 0.30 |
| 2 | *2480.00 | 64.7 AV | | | 2.10 V | 203 | 64.40 | 0.30 |
| 3 | 2483.50 | 52.8 PK | 74.0 | -21.2 | 2.10 V | 203 | 52.49 | 0.31 |
| 4 | 2483.50 | 22.7 AV | 54.0 | -31.3 | 2.10 V | 203 | 22.39 | 0.31 |
| 5 | 4960.00 | 52.4 PK | 74.0 | -21.6 | 1.77 V | 334 | 42.97 | 9.43 |
| 6 | 4960.00 | 22.3 AV | 54.0 | -31.7 | 1.77 V | 334 | 12.87 | 9.43 |
| 7 | 7440.00 | 55.4 PK | 74.0 | -18.6 | 1.77 V | 334 | 38.75 | 16.65 |
| 8 | 7440.00 | 25.3 AV | 54.0 | -28.7 | 1.77 V | 334 | 8.65 | 16.65 |

REMARKS:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.
- 6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 * 5 per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: 20log(3.125 / 100)= -30.1 dB
- 7. Average value = peak reading + 20log(duty cycle).

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BT_8DPSK

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

| | ANTENNA I | POLARITY & | R TEST DIS | TANCE: HO | RIZONTAL | AT 3 M | |
|----------------|--|--|---|--|--|------------------------|--------------------------------|
| FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 2390.00 | 54.3 PK | 74.0 | -19.7 | 2.14 H | 191 | 57.20 | -2.90 |
| 2390.00 | 24.2 AV | 54.0 | -29.8 | 2.14 H | 191 | 27.10 | -2.90 |
| *2402.00 | 105.0 PK | | | 2.08 H | 211 | 107.87 | -2.87 |
| *2402.00 | 74.9 AV | | | 2.08 H | 211 | 77.77 | -2.87 |
| 4804.00 | 50.0 PK | 74.0 | -24.0 | 1.84 H | 323 | 44.73 | 5.27 |
| 4804.00 | 19.9 AV | 54.0 | -34.1 | 1.84 H | 323 | 14.63 | 5.27 |
| | ANTENNA | POLARITY | ' & TEST DI | STANCE: V | ERTICAL A | T 3 M | |
| FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 2390.00 | 47.7 PK | 74.0 | -26.3 | 2.14 V | 191 | 50.60 | -2.90 |
| 2390.00 | 17.6 AV | 54.0 | -36.4 | 2.14 V | 191 | 20.50 | -2.90 |
| *2402.00 | 97.5 PK | | | 2.14 V | 191 | 100.37 | -2.87 |
| | (MHz) 2390.00 2390.00 *2402.00 *2402.00 4804.00 4804.00 FREQ. (MHz) 2390.00 2390.00 | FREQ. (MHz) EMISSION LEVEL (dBuV/m) 2390.00 54.3 PK 2390.00 24.2 AV *2402.00 105.0 PK *2402.00 74.9 AV 4804.00 50.0 PK 4804.00 19.9 AV ANTENNA FREQ. (MHz) EMISSION LEVEL (dBuV/m) 2390.00 47.7 PK 2390.00 17.6 AV | FREQ. (MHz) EMISSION LEVEL (dBuV/m) LIMIT (dBuV/m) 2390.00 54.3 PK 74.0 2390.00 24.2 AV 54.0 *2402.00 105.0 PK *2402.00 74.9 AV 4804.00 50.0 PK 74.0 4804.00 19.9 AV 54.0 ANTENNA POLARITY FREQ. (MHz) EMISSION LEVEL (dBuV/m) LIMIT (dBuV/m) 2390.00 47.7 PK 74.0 2390.00 17.6 AV 54.0 | FREQ. (MHz) EMISSION LEVEL (dBuV/m) LIMIT (dBuV/m) MARGIN (dB) 2390.00 54.3 PK 74.0 -19.7 2390.00 24.2 AV 54.0 -29.8 *2402.00 105.0 PK *2402.00 74.9 AV 4804.00 50.0 PK 74.0 -24.0 4804.00 19.9 AV 54.0 -34.1 ANTENNA POLARITY & TEST DI FREQ. (MHz) EMISSION LEVEL (dBuV/m) LIMIT (dBuV/m) (dB) 2390.00 47.7 PK 74.0 -26.3 2390.00 17.6 AV 54.0 -36.4 | FREQ. (MHz) EMISSION LEVEL (dBuV/m) LIMIT (dBuV/m) MARGIN (dB) ANTENNA HEIGHT (m) 2390.00 54.3 PK 74.0 -19.7 2.14 H 2390.00 24.2 AV 54.0 -29.8 2.14 H *2402.00 105.0 PK 2.08 H 2.08 H *2402.00 74.9 AV 2.08 H 1.84 H 4804.00 50.0 PK 74.0 -24.0 1.84 H 4804.00 19.9 AV 54.0 -34.1 1.84 H ANTENNA POLARITY & TEST DISTANCE: V FREQ. (MHz) EMISSION LEVEL (dBuV/m) LIMIT (dBuV/m) MARGIN (dB) ANTENNA HEIGHT (m) 2390.00 47.7 PK 74.0 -26.3 2.14 V 2390.00 17.6 AV 54.0 -36.4 2.14 V | FREQ. (MHz) | Tensor |

REMARKS:

5

6

*2402.00

4804.00

4804.00

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

-21.4

-31.5

2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)

2.14 V

1.82 V

1.82 V

191

316

316

70.27

47.33

17.23

-2.87

5.27

5.27

3. The other emission levels were very low against the limit.

74.0

54.0

- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.

67.4 AV

52.6 PK

22.5 AV

- 6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 * 5 per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: 20log(3.125 / 100)= -30.1 dB
- 7. Average value = peak reading + 20log(duty cycle).

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

| | ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|-----|---|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|--|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | |
| 1 | *2441.00 | 104.2 PK | | | 2.13 H | 192 | 106.92 | -2.72 | |
| 2 | *2441.00 | 74.1 AV | | | 2.13 H | 192 | 76.82 | -2.72 | |
| 3 | 4882.00 | 50.4 PK | 74.0 | -23.6 | 1.75 H | 335 | 44.78 | 5.62 | |
| 4 | 4882.00 | 20.3 AV | 54.0 | -33.7 | 1.75 H | 335 | 14.68 | 5.62 | |
| 5 | 7323.00 | 54.8 PK | 74.0 | -19.2 | 1.75 H | 335 | 41.88 | 12.92 | |
| 6 | 7323.00 | 24.7 AV | 54.0 | -29.3 | 1.75 H | 335 | 11.78 | 12.92 | |
| | | ANTENNA | POLARITY | & TEST DI | STANCE: V | ERTICAL A | T 3 M | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | |
| 1 | *2441.00 | 97.3 PK | | | 2.11 V | 190 | 100.02 | -2.72 | |
| 2 | *2441.00 | 67.2 AV | | | 2.11 V | 190 | 69.92 | -2.72 | |
| 3 | 4882.00 | 53.3 PK | 74.0 | -20.7 | 1.79 V | 332 | 47.68 | 5.62 | |
| 4 | 4882.00 | 23.2 AV | 54.0 | -30.8 | 1.79 V | 332 | 17.58 | 5.62 | |
| 5 | 7323.00 | 54.7 PK | 74.0 | -19.3 | 1.79 V | 332 | 41.78 | 12.92 | |
| 6 | 7323.00 | 24.6 AV | 54.0 | -29.4 | 1.79 V | 332 | 11.68 | 12.92 | |

REMARKS:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.
- 6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 * 5 per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: 20log(3.125 / 100)= -30.1 dB
- 7. Average value = peak reading + 20log(duty cycle).

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| CHANNEL | TX Channel 78 | DETECTOR | Deals (DIC) |
|-----------------|---------------|----------|-------------|
| FREQUENCY RANGE | 1GHz ~ 25GHz | FUNCTION | Peak (PK) |

| | | ANTENNA I | POLARITY | & TEST DIS | TANCE: HO | RIZONTAL | AT 3 M | |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2480.00 | 104.9 PK | | | 1.72 H | 360 | 107.47 | -2.57 |
| 2 | *2480.00 | 74.8 AV | | | 1.72 H | 360 | 77.37 | -2.57 |
| 3 | 2483.50 | 54.2 PK | 74.0 | -19.8 | 1.72 H | 360 | 56.76 | -2.56 |
| 4 | 2483.50 | 24.1 AV | 54.0 | -29.9 | 1.72 H | 360 | 26.66 | -2.56 |
| 5 | 4960.00 | 51.1 PK | 74.0 | -22.9 | 1.55 H | 211 | 45.19 | 5.91 |
| 6 | 4960.00 | 21.0 AV | 54.0 | -33.0 | 1.55 H | 211 | 15.09 | 5.91 |
| 7 | 7440.00 | 55.2 PK | 74.0 | -18.8 | 1.55 H | 211 | 41.97 | 13.23 |
| 8 | 7440.00 | 25.1 AV | 54.0 | -28.9 | 1.55 H | 211 | 11.87 | 13.23 |
| | | ANTENNA | POLARITY | / & TEST DI | STANCE: V | ERTICAL A | T 3 M | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2480.00 | 97.4 PK | | | 2.13 V | 202 | 99.97 | -2.57 |
| 2 | *2480.00 | 67.3 AV | | | 2.13 V | 202 | 69.87 | -2.57 |
| 3 | 2483.50 | 47.4 PK | 74.0 | -26.6 | 2.13 V | 202 | 49.96 | -2.56 |
| 4 | 2483.50 | 17.3 AV | 54.0 | -36.7 | 2.13 V | 202 | 19.86 | -2.56 |
| 5 | 4960.00 | 52.5 PK | 74.0 | -21.5 | 1.78 V | 321 | 46.59 | 5.91 |
| 6 | 4960.00 | 22.4 AV | 54.0 | -31.6 | 1.78 V | 321 | 16.49 | 5.91 |
| 7 | 7440.00 | 55.5 PK | 74.0 | -18.5 | 1.78 V | 321 | 42.27 | 13.23 |
| 8 | 7440.00 | 25.4 AV | 54.0 | -28.6 | 1.78 V | 321 | 12.17 | 13.23 |

REMARKS:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.
- 6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 * 5 per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: 20log(3.125 / 100)= -30.1 dB
- 7. Average value = peak reading + 20log(duty cycle).

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BELOW 1GHz DATA

BT_GFSK

| CHANNEL | TX Channel 0 | DETECTOR | Overei Beek (OB) |
|-----------------|--------------|----------|------------------|
| FREQUENCY RANGE | 30MHz ~ 1GHz | FUNCTION | Quasi-Peak (QP) |

| | | ANTENNA | POLARITY | & TEST DIS | TANCE: HO | RIZONTAL | AT 3 M | |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 365.86 | 38.5 QP | 46.0 | -7.6 | 1.00 H | 360 | 48.71 | -10.26 |
| 2 | 432.31 | 34.6 QP | 46.0 | -11.5 | 1.00 H | 125 | 42.74 | -8.19 |
| 3 | 501.13 | 35.2 QP | 46.0 | -10.8 | 1.00 H | 251 | 41.96 | -6.80 |
| 4 | 565.29 | 34.0 QP | 46.0 | -12.0 | 1.00 H | 246 | 39.57 | -5.59 |
| 5 | 701.68 | 34.7 QP | 46.0 | -11.3 | 1.00 H | 326 | 37.47 | -2.73 |
| 6 | 960.04 | 40.9 QP | 54.0 | -13.1 | 1.00 H | 279 | 39.23 | 1.69 |
| | | ANTENNA | POLARITY | / & TEST DI | STANCE: V | ERTICAL A | T 3 M | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 39.94 | 34.3 QP | 40.0 | -5.7 | 1.00 V | 252 | 47.78 | -13.50 |
| 2 | 166.33 | 32.0 QP | 43.5 | -11.5 | 1.00 V | 0 | 45.33 | -13.33 |
| 3 | 434.34 | 35.8 QP | 46.0 | -10.2 | 1.00 V | 290 | 43.93 | -8.10 |
| 4 | 498.85 | 41.5 QP | 46.0 | -4.5 | 1.00 V | 270 | 48.32 | -6.86 |
| 5 | 700.42 | 33.4 QP | 46.0 | -12.6 | 1.00 V | 268 | 36.14 | -2.77 |
| 6 | 902.18 | 34.4 QP | 46.0 | -11.6 | 1.00 V | 287 | 33.60 | 0.82 |

REMARKS:

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

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4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

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

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

4.2.2 Test Instruments

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|---|-------------------------|------------|--------------------|---------------------|
| Test Receiver R&S | ESCS 30 | 100375 | May 06, 2015 | May 05, 2016 |
| Line-Impedance Stabilization Network (for EUT) SCHWARZBECK | NSLK-8127 | 8127-522 | Sep. 15, 2014 | Sep. 14, 2015 |
| Line-Impedance Stabilization Network (for Peripheral) R&S | ENV216 | 100072 | June 11, 2015 | June 10, 2016 |
| RF Cable | 5D-FB | COCCAB-001 | Mar. 09, 2015 | Mar. 08, 2016 |
| 50 ohms Terminator | E1-011311 | 09 | Nov. 27, 2014 | Nov. 26, 2015 |
| 50 ohms Terminator | N/A | EMC-02 | Sep. 30, 2014 | Sep. 29, 2015 |
| Software BVADT | BVADT_Cond_ V7.3.7.3 | NA | NA | NA |

Note:

- 1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- 2. The test was performed in Shielded Room No. C.
- 3 The VCCI Con C Registration No. is C-3611.
- 4 Tested Date: Aug. 27, 2015



4.2.3 Test Procedures

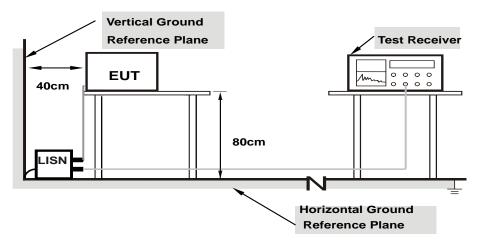
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50uH of coupling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

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

4.2.4 Deviation From Test Standard

No deviation.

4.2.5 Test Setup



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

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

4.2.6 EUT Operating Condition

Same as 4.1.6.

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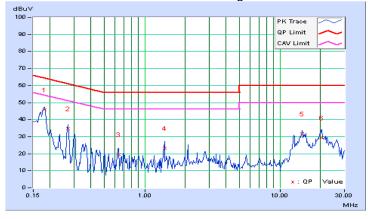
4.2.7 Test Results

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

| | From | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------|--------|---------------|-------|----------------|-------|-------|-------|--------|--------|
| No | Freq. | Factor | [dB (| (uV)] | [dB (| (uV)] | [dB (| (uV)] | (dl | 3) |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.18125 | 0.09 | 45.58 | 45.56 | 45.67 | 45.65 | 64.43 | 54.43 | -18.76 | -8.78 |
| 2 | 0.27109 | 0.09 | 34.57 | 29.13 | 34.66 | 29.22 | 61.08 | 51.08 | -26.42 | -21.86 |
| 3 | 0.63828 | 0.11 | 19.39 | 15.39 | 19.50 | 15.50 | 56.00 | 46.00 | -36.50 | -30.50 |
| 4 | 1.40625 | 0.15 | 23.11 | 13.08 | 23.26 | 13.23 | 56.00 | 46.00 | -32.74 | -32.77 |
| 5 | 14.53516 | 0.56 | 31.00 | 27.13 | 31.56 | 27.69 | 60.00 | 50.00 | -28.44 | -22.31 |
| 6 | 20.36719 | 0.71 | 28.52 | 20.80 | 29.23 | 21.51 | 60.00 | 50.00 | -30.77 | -28.49 |

REMARKS:

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



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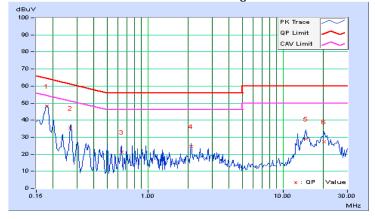


| Phase | Line (N) | Detector Function | Quasi-Peak (QP) / |
|--------|-----------|-------------------|-------------------|
| rilase | Line (IV) | Detector runction | Average (AV) |

| | From | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------|--------|---------------|-------|----------------|-------|-------|-------|--------|--------|
| No | Freq. | Factor | [dB | (uV)] | [dB (| (uV)] | [dB (| (uV)] | (dl | В) |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.17997 | 0.08 | 48.03 | 47.23 | 48.11 | 47.31 | 64.49 | 54.49 | -16.38 | -7.18 |
| 2 | 0.26884 | 0.09 | 35.41 | 30.46 | 35.50 | 30.55 | 61.15 | 51.15 | -25.66 | -20.61 |
| 3 | 0.63828 | 0.11 | 21.22 | 19.43 | 21.33 | 19.54 | 56.00 | 46.00 | -34.67 | -26.46 |
| 4 | 2.08984 | 0.17 | 24.46 | 23.70 | 24.63 | 23.87 | 56.00 | 46.00 | -31.37 | -22.13 |
| 5 | 14.70366 | 0.59 | 28.37 | 23.28 | 28.96 | 23.87 | 60.00 | 50.00 | -31.04 | -26.13 |
| 6 | 20.16797 | 0.74 | 26.69 | 20.23 | 27.43 | 20.97 | 60.00 | 50.00 | -32.57 | -29.03 |

REMARKS:

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



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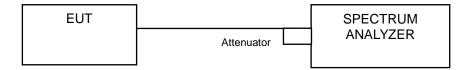


4.3 Number of Hopping Frequency Used

4.3.1 Limits of Hopping Frequency Used Measurement

At least 15 channels frequencies, and should be equally spaced.

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- d. Set the SA on View mode and then plot the result on SA screen.
- e. Repeat above procedures until all frequencies measured were complete.

4.3.5 Deviation from Test Standard

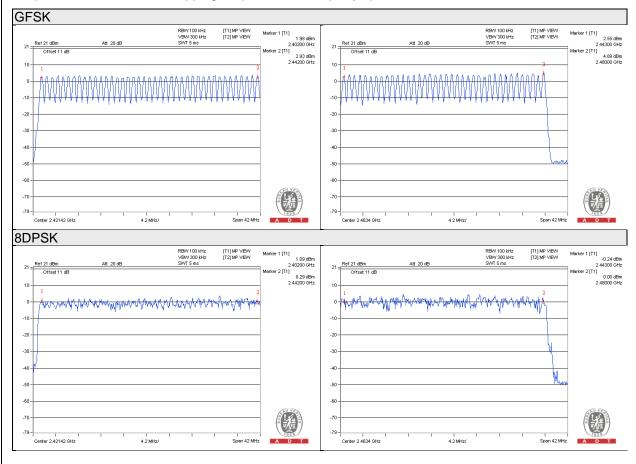
No deviation.

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4.3.6 Test Results

There are 79 hopping frequencies in the hopping mode. Please refer to next page for the test result. On the plots, it shows that the hopping frequencies are equally spaced.





4.4 Dwell Time on Each Channel

4.4.1 Limits of Dwell Time on Each Channel Measurement

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.

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedures

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- d. Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- e. Repeat above procedures until all different time-slot modes have been completed.

4.4.5 Deviation from Test Standard

No deviation.

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4.4.6 Test Results

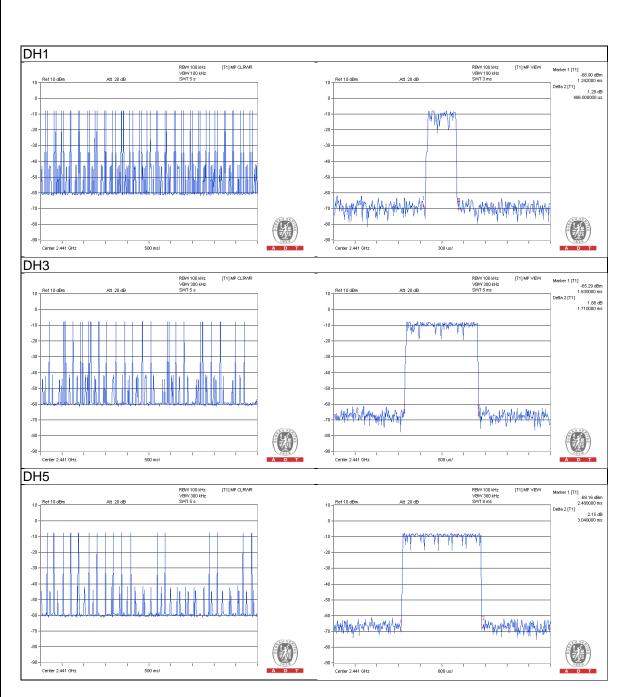
GFSK

| Mode | Number of transmission in a 31.6 (79Hopping*0.4) | Length of transmission time (msec) | Result (msec) | Limit (msec) |
|------|--|------------------------------------|------------------|-----------------|
| DH1 | 50 (times / 5 sec) * 6.32 = 316 times | 0.486 | 153.58 | 400 |
| DH3 | 25 (times / 5 sec) * 6.32 = 158 times | 1.71 | 270.18 | 400 |
| DH5 | 17 (times / 5 sec) * 6.32 = 107.44 times | 3.04 | 326.62 | 400 |

NOTE: Test plots of the transmitting time slot are shown on next page.

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8DPSK

| Mode | Number of transmission in a 31.6 (79Hopping*0.4) | Length of transmission time (msec) | Result (msec) | Limit (msec) |
|------|--|------------------------------------|------------------|-----------------|
| DH1 | 50 (times / 5 sec) * 6.32 = 316 times | 0.468 | 147.89 | 400 |
| DH3 | 25 (times / 5 sec) * 6.32 = 158 times | 1.74 | 274.92 | 400 |
| DH5 | 16 (times / 5 sec) * 6.32 = 101.12 times | 3.04 | 307.4 | 400 |

NOTE: Test plots of the transmitting time slot are shown on next page.

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4.5 Channel Bandwidth

4.5.1 Limits of Channel Bandwidth Measurement

For frequency hopping system operating in the 2400-2483.5MHz, If the 20dB bandwidth of hopping channel is greater than 25kHz, two-thirds 20dBbandwidth of hopping channel shell be a minimum limit for the hopping channel separation.

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

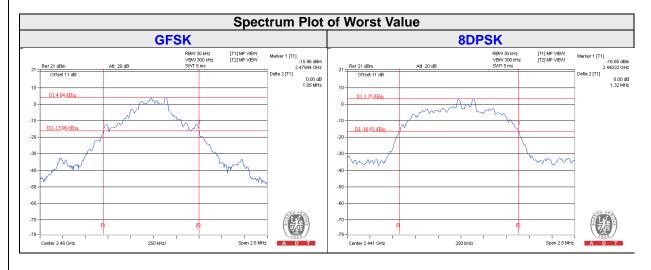
The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

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4.5.7 Test Results

| Channel | Frequency (MHz) | 20dB Bandwidth (MHz) | | | |
|-----------|--------------------|----------------------|-------|--|--|
| Gilainici | rioquonoy (iiiiiz) | GFSK | 8DPSK | | |
| 0 | 2402 | 1.05 | 1.31 | | |
| 39 | 2441 | 1.05 | 1.32 | | |
| 78 | 2480 | 1.05 | 1.32 | | |



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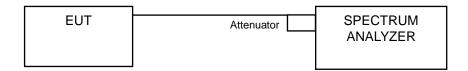


4.6 Hopping Channel Separation

4.6.1 Limits of Hopping Channel Separation Measurement

At least 25kHz or two-third of 20dB hopping channel bandwidth (whichever is greater).

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

Measurement Procedure REF

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
- c. By using the MaxHold function record the separation of two adjacent channels.
- d. Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.
- e. Repeat above procedures until all frequencies measured were complete.
- 4.6.5 Deviation From Test Standard No deviation.

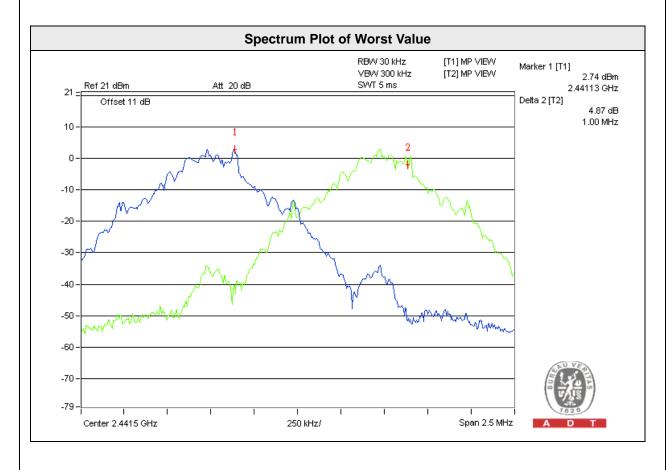
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4.6.6 Test Results

| Channel | Frequency (MHz) | · · · · · · · · · · · · · · · · · · · | | Minimum Limit (MHz) | | Pass / Fail | | |
|---------|--------------------|---------------------------------------|-------|------------------------|-------|-------------|-------|------|
| | | GFSK | 8DPSK | GFSK | 8DPSK | GFSK | 8DPSK | |
| 0 | 2402 | 1.01 | 1.01 | 1.05 | 1.31 | 0.7 | 0.88 | Pass |
| 39 | 2441 | 1.00 | 1.00 | 1.05 | 1.32 | 0.7 | 0.88 | Pass |
| 78 | 2480 | 1.01 | 1.01 | 1.05 | 1.32 | 0.7 | 0.88 | Pass |

NOTE: The minimum limit is two-third 20dB bandwidth.



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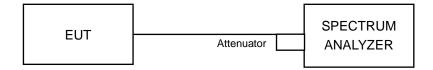


4.7 Maximum Output Power

4.7.1 Limits of Maximum Output Power Measurement

The Maximum Output Power Measurement is 125mW.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. The center frequency of the spectrum analyzer is set to the fundamental frequency and using 3MHz RBW and 10 MHz VBW.
- d. Measure the captured power within the band and recording the plot.
- e. Repeat above procedures until all frequencies required were complete.

4.7.5 Deviation fromTest Standard

No deviation.

4.7.6 EUT Operating Condition

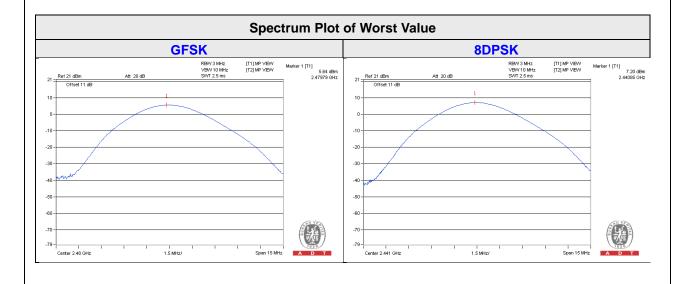
The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

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4.7.7 Test Results

| Channel | Frequency (MHZ) | • | Power W) | • | Power Bm) | Power Limit (mW) | Pass / Fail | |
|---------|--------------------|-------|-------------|------|--------------|---------------------|-------------|--|
| | , | GFSK | 8DPSK | GFSK | 8DPSK | , , | | |
| 0 | 2402 | 2.529 | 4.753 | 4.03 | 6.77 | 125 | Pass | |
| 39 | 2441 | 2.594 | 5.248 | 4.14 | 7.20 | 125 | Pass | |
| 78 | 2480 | 3.664 | 4.887 | 5.64 | 6.89 | 125 | Pass | |





4.8 Conducted Out of Band Emission Measurement

4.8.1 Limits Of Conducted Out Of Band Emission Measurement

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

4.8.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.8.3 Test Procedure

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz and 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

4.8.4 Deviation from Test Standard

No deviation.

4.8.5 EUT Operating Condition

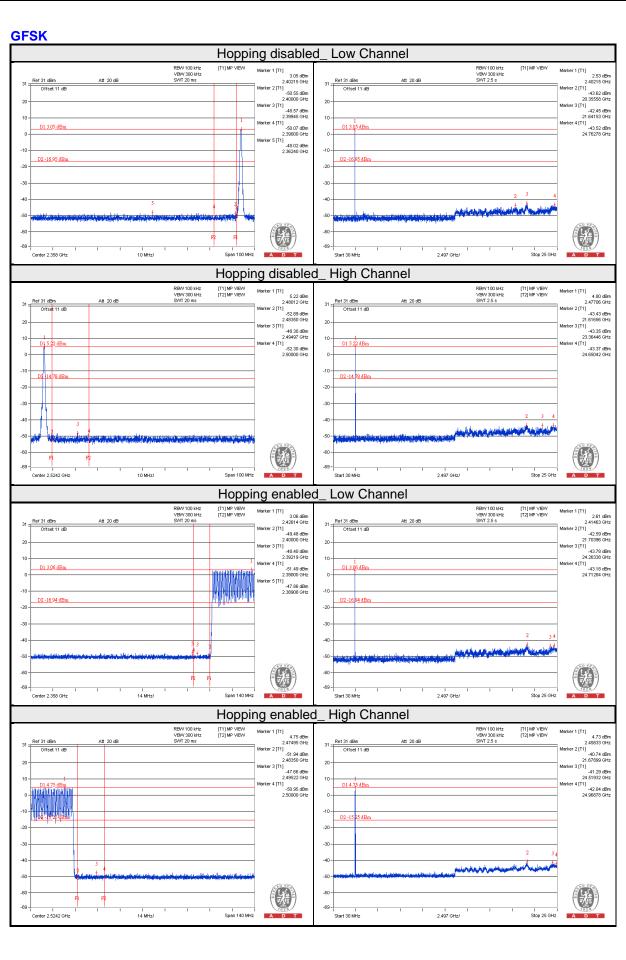
The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

4.8.6 Test Results

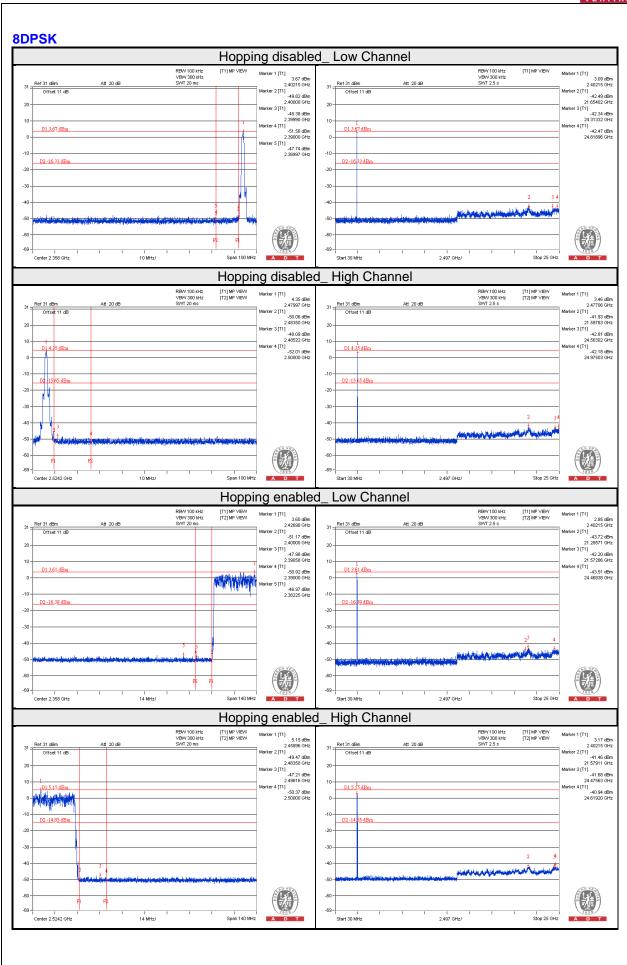
The spectrum plots are attached on the following images. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.

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| 5 | Pictures of Test Arrangements | | | | | | | | |
|-----|---|--|--|--|--|--|--|--|--|
| Ple | Please refer to the attached file (Test Setup Photo). | | | | | | | | |
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Appendix - Information on the Testing Laboratories

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

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

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Hsin Chu EMC/RF Lab/Telecom Lab

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Web Site: www.bureauveritas-adt.com

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

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