

APPLICANT: MOTOROLA INC

FCC ID: IHDT56JB1

Radiated Data Taken By:

Technician: Hans Kristian Kristensen

Handwritten signature of Hans K. in black ink, appearing as 'Hans K.' with a period.

Signature: _____

Dates: 2007-11-28 to 2007-11-30



MOTOROLA

MOBILE DEVICES BUSINESS

**PRODUCT SAFETY AND COMPLIANCE
EMC LABORATORY**

EMC TEST REPORT - Addendum

Test Report Number – 21368-1BT

Report Date – 03-12-2007

The test results contained herein relate only to the model(s) identified. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical characteristics.

As the responsible EMC Engineer, I hereby declare that the model tested as specified in this report conforms to the requirements indicated.

Signature:

A handwritten signature in black ink, appearing to read 'Per K. Nielsen'.

Name: Per K. Nielsen

Title: Sr. Staff Engineer

Date: 03-12-2007

This report must not be reproduced, except in full, without written approval from this laboratory.

FCC Registration Number: 863448

IC Registration Number: 109AP-1

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Test Report Details

Tests Performed By: Motorola A/S
Product Safety and Compliance Group
Lindholm Brygge 35
9400 Nr.Sundby Fax (45) 7219-5002
Phone: (45) 7219-5000
Motorola PCS FRN: 0016105769
FCC Registration Number: 863448
IC Registration Number: 109AP-1

Tests Requested By: Motorola Inc.
Mobile Devices business
600 North US Hwy 45
Libertyville, IL 60048

Product Type: Cell phone with Bluetooth

Form factor: Clamshell

Signaling Capability: Dual band 800/1900 CDMA with CDMA 1x and CDMA EV-DO release 0/A, Bluetooth class 2, sGPS.

Serial Numbers: LCL0280046

FCC ID: IHDT56JB1

Project number: 21368-1

Testing Complete Date: 30-11-2007

Applicable Standards

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J as well as the following parts:

- Part 15 Subpart C – Intentional Radiators
- Part 22 Subpart H - Public Mobile Services
- Part 24 - Personal Communications Services
- Part 27 - Wireless Communications Service
- Part 90 - Private Land Mobile Radio Service

Applicable Standards: ANSI 63.4-2003, RSS-GEN, RSS-210 (Bluetooth).

DA 00-705, "Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems" published by the Federal Communications Commission was also used in the testing of this product.

The following tests were performed according to the regulations:

- The **spurious radiated emission** requirements of § **15.247(d) of CFR47 Part 15 2006**, specifically" radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).
- Under this project only 30 to 1000MHz, 1 to 25GHz radiated emissions and radiated band-edge measurements were performed.
- For frequencies below 1 GHz a 100 kHz RBW is used and above 1 GHz a 1 MHz RBW is used.

Summary of Testing

Test	Test Name	Pass/Fail
1	Field Strength of Spurious Emissions	Pass
2	Band-edge Compliance of RF Radiated Emissions	Pass

Test	Test Name	Results
1	Field Strength of Spurious Emissions	See plots
2	Band-edge Compliance of RF Radiated Emissions	See plots

The margin with respect to the limit is the minimum margin for all modes and bands. () indicates the margin at which the product exceeds the limit.

General and Special Conditions

The test sample was tested using a fully charged battery when applicable. Where a battery could not be used due to the need for a controlled variation of input voltage, an external power supply was utilized.

All testing was done in an indoor controlled environment with an average temperature of 19.0° C +- 2 ° C and relative humidity of 38% +-4% over the dates used for testing.

Equipment and Cable Configurations

The test sample was tested in a stand-alone configuration that is representative of typical use.

Measuring Equipment and Calibration Information

Equipment	Model/type	Serial number	Operational range	Date of calibration
EMI analysers	HP E7405A	US39440168	9 kHz – 26.5 GHz	19.04.07
	ESIB 26	100179	20 Hz – 26.5 GHz	15.05.07
	ESU 40	100040	20 Hz – 40 GHz	24.04.07
Pre Amplifiers	EA PA-02: (JCA12-300 JCA218-4003 JCA48-300 JCA1826-431 JCA1218-500)	800002	(1 – 26 GHz) 1 GHz – 2 GHz 2 GHz – 18 GHz 4 GHz – 8 GHz 18 GHz – 26 GHz 12 GHz – 18 GHz	26.06.07
	Sonoma 310N	185680	9 kHz – 1 GHz	19.06.07
	AFS4-02001800-35-ULN (Mounted on EMCO 3115)	805815	2 GHz – 18 GHz	24.10.07
	JSA-18004000-30-5A (Mounted on EMCO 3116)	965195	18 GHz – 40 GHz	22.08.07
	JCA 2640-4000 (Mounted on EMCO 3116)	102	18 – 40 GHz	22.08.07
Radio com. Tester	CMU 200	112434	GSM 850/900/1800/1900 IS95, UMTS, CDMA, Bluetooth	01.05.07
High pass filter	K&L 3DH1-3000/T13000-0/0 (Mounted on EMCO 3115)	8	(2700 - 20000 MHz)	24.10.07
Attenuator	Weinschel 54A-6 (6dB) (Mounted on EMCO 3116)	T8887	DC – 40 GHz	22.08.07
	H&S 6603.19AA (3dB) (Mounted on EMCO 3115)	na	DC-18 GHz	24.10.07

The antennas used in the various tests are listed in the below table. All the log-periodic antennas are used as communication and link establishment antennas for (GSM, UMTS, CDMA, FM and/or Bluetooth).

Antenna	Type	Serial number	Operational range	Date of calibration
Hybrid-log periodic	HLP 3003C	080200	30 MHz – 3 GHz	30.07.07
Log-periodic (link)	LPDA 8030	090200	800 MHz – 3 GHz	09.05.00 (na)
Log-periodic (link)	LPDA 8030	090100	800 MHz – 3 GHz	09.05.00 (na)
Double ridged horn w. a 3 GHz HP-filter + 1x 2-18 GHz pre-amp.+3dB attenuator.	EMCO 3115	00071502	1 GHz – 18 GHz	07.05.07
Double rigid horn w. 2x 18-40 GHz pre-amp+6dB attenuator.	EMCO 3116	71564	18 GHz – 40 GHz	07.05.07

All equipment is on a one-year calibration cycle.

Description of Bluetooth Transmitter

The 21368-1 cell phone sample offers Bluetooth as a feature. The Bluetooth spread-spectrum, frequency hopping transceiver is designed to operate between 2400 and 2483 MHz. The Bluetooth antenna is mounted on the PCB inside of the EUT. The antenna installation is permanent. For a more thorough description of the functionality please refer to Exhibit 12 of this package.

As a Bluetooth transmitter, it is designed operate with other Bluetooth devices as defined by the industrial standard. In this application, the test sample is battery-operated.

Measurement Procedures and Data

FIELD STRENGTH OF SPURIOUS EMISSIONS

CFR Part 2.1053, 15.247(d), 15.249

Measurement Procedure

The test sample is placed inside the semi-anechoic chamber on a polystyrene table at the turntable center. For each spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters and the turntable is rotated 360 degrees to obtain a maximum reading on the spectrum analyzer. This is repeated for both horizontal and vertical polarizations of the receive antenna.

Field Strength (dBuV/m) = EMI Receiver Level (dBuV) + Cable Loss (dB) -
Amplifier Gain (dB) + Filter loss (dB) + Antenna
Correction Factor (3/m)

A fully charged battery was used for the supply voltage.
The used battery type was BX51 with model number SNN5814A

The test sample was operated during the measurements under the following conditions:

- Tests were performed at low, mid and high channels.
- Tests were performed in both horizontal and vertical polarity.
- Investigation of maximum radiation orientation and position of the product sample to determine test orientations angles.
 - Tests were performed with the sample orientated along X, Y and Z orthogonal axis based on findings.
 - Tests were performed with the test sample placed in worst case position either open or closed based on form factor. Verification tests were performed for the other position.

Measurement Results

For peak emissions detected above 1 GHz, only those emissions that are higher than the AVG limit line plus 8 dB are selected for final emission analysis.

Attached results:

Maximum radiating position and orientation

The test sample was placed on top of a none-conductive pedestal in clamshell open position and a Bluetooth link towards the communication test set was established. The test sample was scanned with a log-periodic antenna connected to a spectrum analyzer over the whole sphere and the maximum radiation orientation was determined to be the Y orientation in horizontal polarity.

With the test sample clamshell closed in was determined that the open position caused maximum radiation in the Bluetooth band.

A check of carrier and harmonics on the Bluetooth center channel 39 was performed to determine the expected maximum radiation of any Bluetooth harmonics for the test sample with clamshell open and placed in orientation Y.

Title: FCC 15.247(c)
 File: COOL W755 21368 (8.53)(ESIB)FCC15.247 BT2400 Tch-mid_Y 2007-11-28 Carrier -PK -Open.set
 Operator: ADR_AAL_EMC_TL1_hkr001
 EUT Type: COOL W755, FCC ID: IHDT56JB1, ESN: LCL0280046
 EUT Condition: Board Rev: P2, SW: COOL01_00.15.00R (Open)
 Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
 BT channel 39 (2402 MHz) up/down in test mode. Orientation Y=V
 HLP 3003 C antenna (30MHz - 3 GHz). Peak detector used.

11/28/07 11:41:56
 Sequence: Final Measurements

COOL W755 #21368 -Open table

Freq (MHz)	Freq (Max) (MHz)	(AVG) EMI (dBµV/m)	(1) Limit (dBµV/m)	(AVG) Margin Limit (dB)	Tilt Angl (deg)	Pol.
2441.00	2440.82	97.78	120.00	-22.22	218.30	H
2441.00	2440.82	95.62	120.00	-24.38	204.00	V

Title: FCC 15.247(c)
 File: COOL W755 21368 (8.53)(ESIB)FCC15.247 BT2400 Tch-mid_Y 2007-11-28 Harmonics -AV -Open.set
 Operator: ADR_AAL_EMC_TL1_hkr001
 EUT Type: COOL W755, FCC ID: IHDT56JB1, ESN: LCL0280046
 EUT Condition: Board Rev: P2, SW: COOL01_00.15.00R (Close)
 Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
 BT channel 39 (2402 MHz) up/down in test mode. Orientation Y=V
 EMC CO 3115 ant (3GHz - 18GHz). EMC CO 3116 ant (18G-25GHz)

11/30/07 11:06:38
 Sequence: Final Measurements

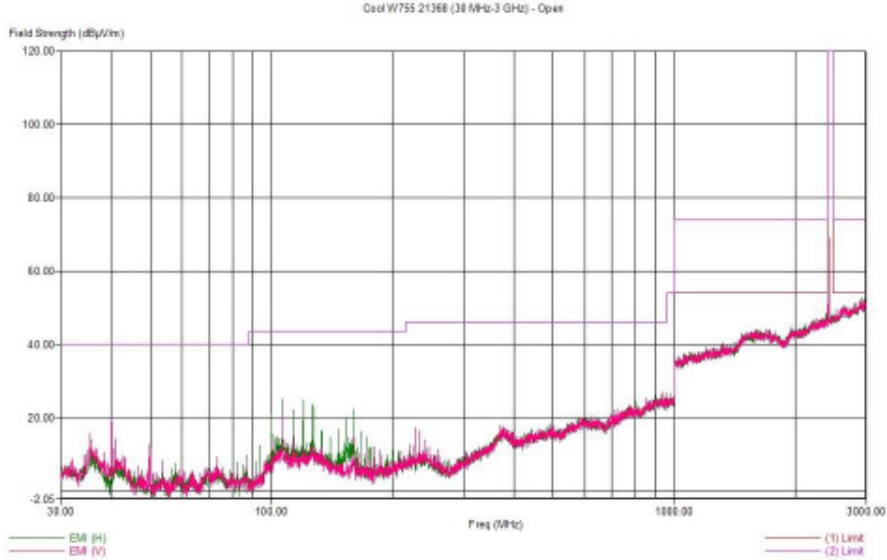
Cool W755 21368 -Open Harmonics Table

Freq (MHz)	Freq (Max) (MHz)	(AVG) EMI (dBµV/m)	(1) Limit (dBµV/m)	(AVG) Margin Limit (dB)	Tilt Angl (deg)	Pol.
4882.00	4880.93	30.40	54.00	-23.60	224.80	H
4882.00	4881.49	30.98	54.00	-23.02	189.60	V
7323.00	7323.10	35.20	54.00	-18.80	320.10	H
7323.00	7322.42	35.19	54.00	-18.81	84.80	V
9764.00	9763.54	37.98	54.00	-16.02	8.90	H
9764.00	9763.63	38.83	54.00	-15.17	191.10	V
12205.00	12205.09	37.25	54.00	-16.75	336.90	H
12205.00	12204.11	37.29	54.00	-16.71	325.40	V
14646.00	14646.63	41.18	54.00	-12.82	153.60	H
14646.00	14646.09	41.17	54.00	-12.83	160.60	V
17087.00	17086.06	46.80	54.00	-7.20	0.50	H
17087.00	17086.23	46.80	54.00	-7.20	272.90	V

The Bluetooth radiated TX power is measured to 0.38 dBm on channel 39.

Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ESIB) FCC15.247 BT2400 Tch-Low_X 2007-11-28 -3.net
Operator: ADR_AAL_EMC_TL1_Mkr001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESR: IC10288046
EUT Condition: Board Rev: P2, SW: COOL01_08.15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCM mode.
BT channel 0 (2482 MHz) up/down in test mode. Orientation X-Y
NIP 2002C antenna (30MHz - 3 GHz). Peak detector used.

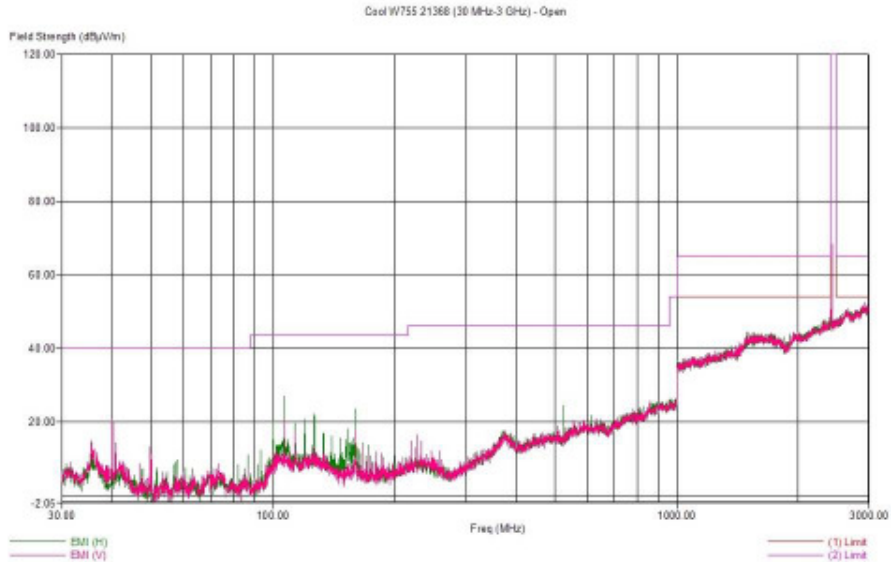
11/29/07 14:12:52
Sequence: Preliminary Scan



30-3000 MHz Low Channel Dual Polarization X

Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ESIB) FCC15.247 BT2400 Tch-Low_Y 2007-11-28 -3.net
Operator: ADR_AAL_EMC_TL1_Mkr001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESR: IC10288046
EUT Condition: Board Rev: P2, SW: COOL01_08.15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCM mode.
BT channel 0 (2482 MHz) up/down in test mode. Orientation Y-Y
NIP 2002C antenna (30MHz - 3 GHz). Peak detector used.

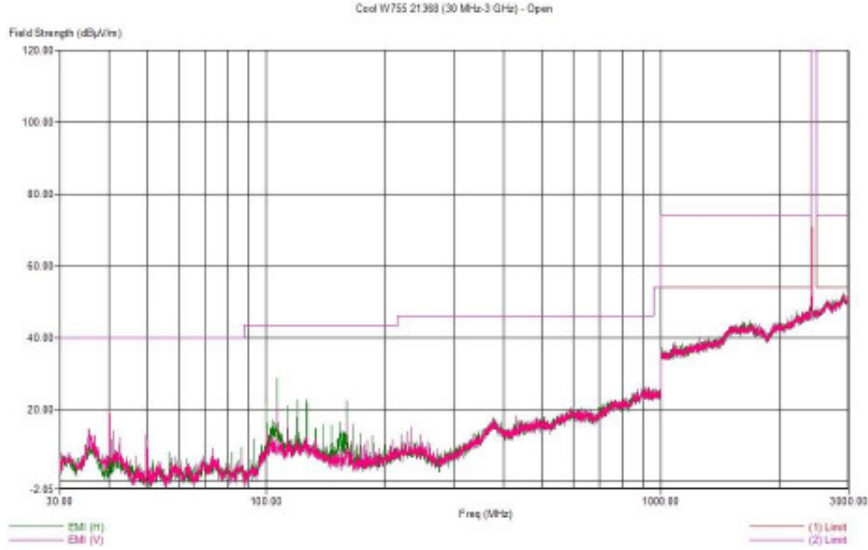
11/29/07 12:18:02
Sequence: Preliminary Scan



30-3000 MHz Low Channel Dual Polarization Y

Title: FCC 15.247(c)
File: Cool W755 21368 (8 53)(ESIB) FCC15.247 BT2400 Tch-lev_Z 2007-11-28 -3.set
Operator: ADR_AAL_EMC_T11_Akr001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESR: LCL0200046
EUT Condition: Board Rev: P2, SW: COOL01_00.15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 9 (2402 MHz) up/down in test mode. Orientation Z=V
KLP 3003C antenna (30MHz - 3 GHz). Peak detector used.

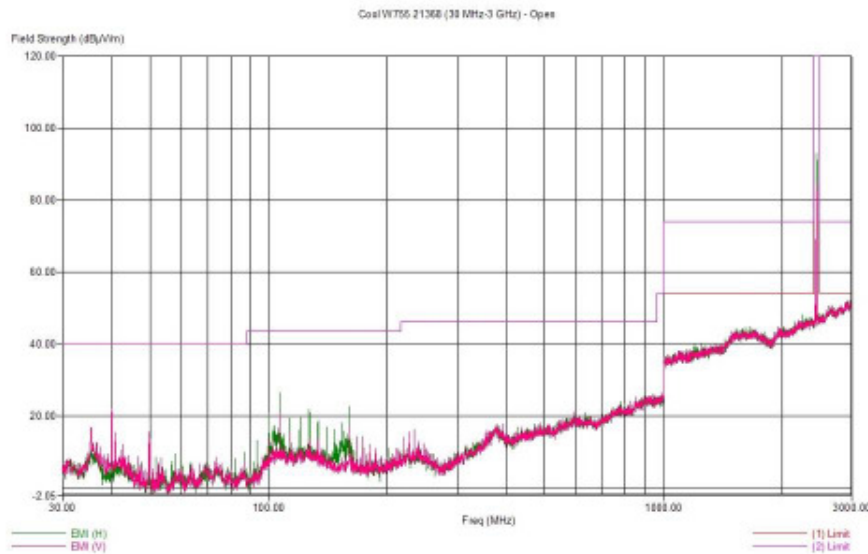
11/28/07 13:47:30
Sequence: Preliminary Scan



30-3000 MHz Low Channel Dual Polarization Z

Title: FCC 15.247(c)
File: Cool W755 21368 (8 53)(ESIB) FCC15.247 BT2400 Tch-aid_X 2007-11-28 -3.set
Operator: ADR_AAL_EMC_T11_Akr001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESR: LCL0200046
EUT Condition: Board Rev: P2, SW: COOL01_00.15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 9 (2402 MHz) up/down in test mode. Orientation E=V
KLP 3003C antenna (30MHz - 3 GHz). Peak detector used.

11/28/07 14:51:48
Sequence: Preliminary Scan

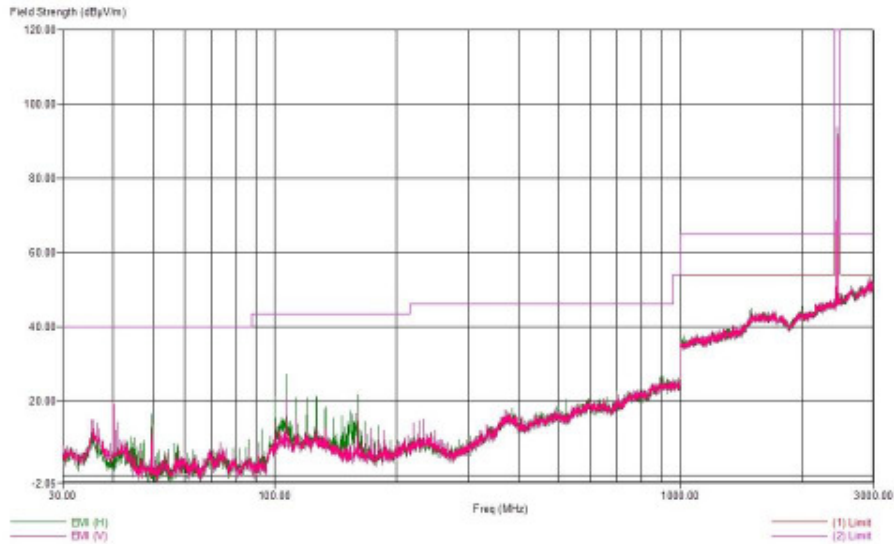


30-3000 MHz Mid Channel Dual Polarization X

Title: FCC 15.247(c)
 File: Cool W755 21368 (8.53)(ESIB) FCC15.247 BT2488 Tch-mid_Y 2007-11-28 -3.set
 Operator: ADR_AAL EMC_T11_hkr011
 EUT Type: COOL W755, FCC ID: IHDT56JB1, ESN: LCLD280046
 EUT Condition: Board Rev: P2, SW: COOL01_00.15.00R (Open)
 Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
 BT channel 39 (2481 MHz) up/do in test mode. Orientation T-V
 HLP 3033C antenna (30MHz - 3 GHz). Peak detector used.

11/28/07 11:54:28
 Sequence: Preliminary Scan

CoolW755 21368 (30 MHz-3 GHz) - Open

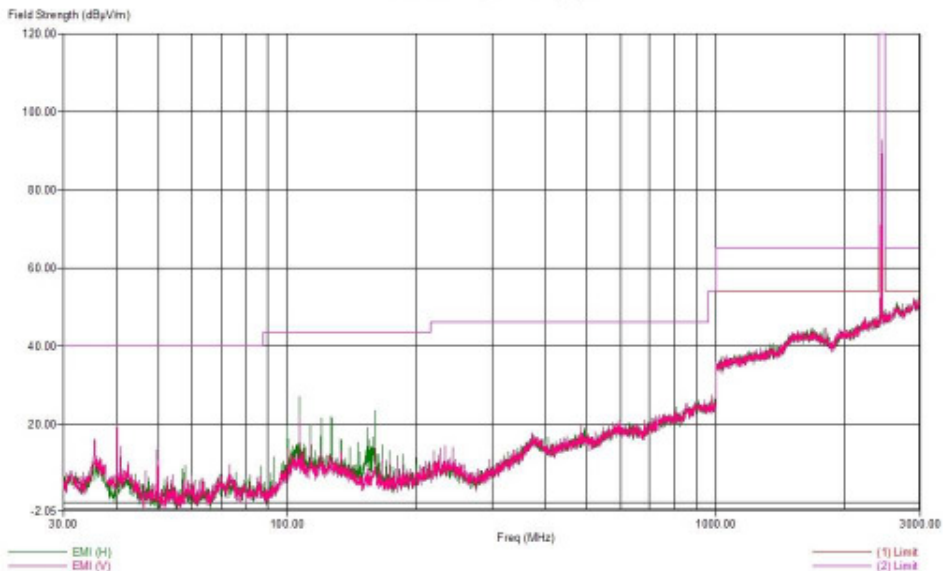


30-3000 MHz Mid Channel Dual Polarization Y

Title: FCC 15.247(c)
 File: Cool W755 21368 (8.53)(ESIB) FCC15.247 BT2400 Tch-mid_Z 2007-11-28 -3.set
 Operator: ADR_AAL EMC_T11_hkr001
 EUT Type: COOL W755, FCC ID: IHDT56JB1, ESN: LCLD280046
 EUT Condition: Board Rev: P2, SW: COOL01_00.15.00R (Open)
 Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
 BT channel 39 (2481 MHz) up/do in test mode. Orientation Z-V
 HLP 3033C antenna (30MHz - 3 GHz). Peak detector used.

11/28/07 13:27:16
 Sequence: Preliminary Scan

CoolW755 21368 (30 MHz-3 GHz) - Open

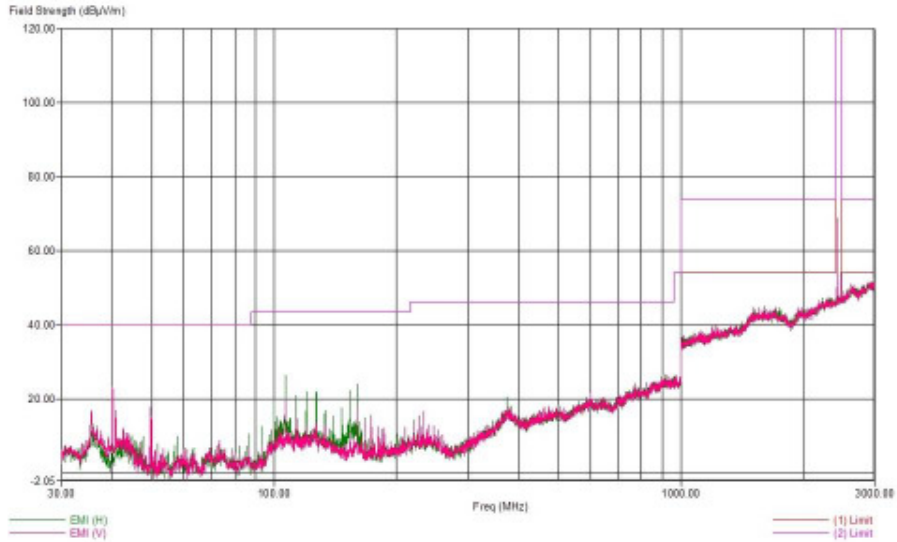


30-3000 MHz Mid Channel Dual Polarization Z

Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ESIB) FCC15.247 BT2400 Tch-bgh_X 2007-11-28 -3.set
Operator: ADR_AAI_ENC_TL1_hky001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESN: ICL0280046
EUT Condition: Board Rev: P2, SW: COOL01_00.15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 78 (2480 MHz) up/down in test mode. Orientation X-Y
RFP 3003C antenna (30MHz - 3 GHz). Peak detector used.

11/28/07 15:15:57
Sequence: Preliminary Scan

Cool W755 21368 (30 MHz-3 GHz) - Open

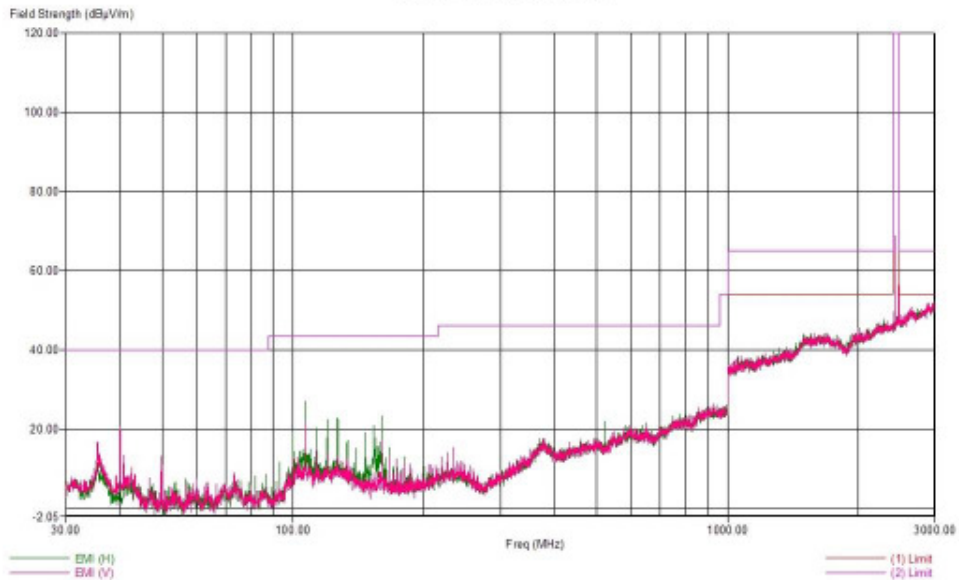


30-3000 MHz High Channel Dual Polarization X

Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ESIB) FCC15.247 BT2400 Tch-bgh_T 2007-11-28 -3.set
Operator: ADR_AAI_ENC_TL1_hky001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESN: ICL0280046
EUT Condition: Board Rev: P2, SW: COOL01_00.15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 78 (2480 MHz) up/down in test mode. Orientation Y-Y
RFP 3003C antenna (30MHz - 3 GHz). Peak detector used.

11/28/07 12:37:45
Sequence: Preliminary Scan

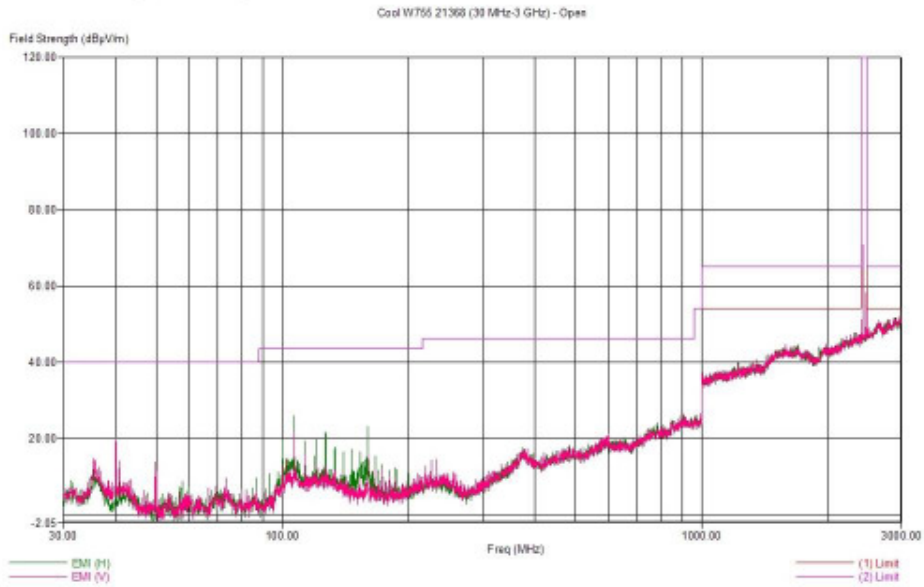
Cool W755 21368 (30 MHz-3 GHz) - Open



30-3000 MHz High Channel Dual Polarization Y

Title: FCC 15.247(a)
File: Cool W755 21368 (8.53)(ES18) FCC15.247 BT2480 Tch-high_Z 2007-11-28 -3.sst
Operator: ADR_AAL_ENC_T11_bic001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESN: ICI0288846
EUT Condition: Board Rev: P2, SW: C00101_00.15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 78 (2480 MHz) up/down in test mode. Orientation Z+Y
ERP 3533C antenna (30MHz - 3 GHz). Peak detector used.

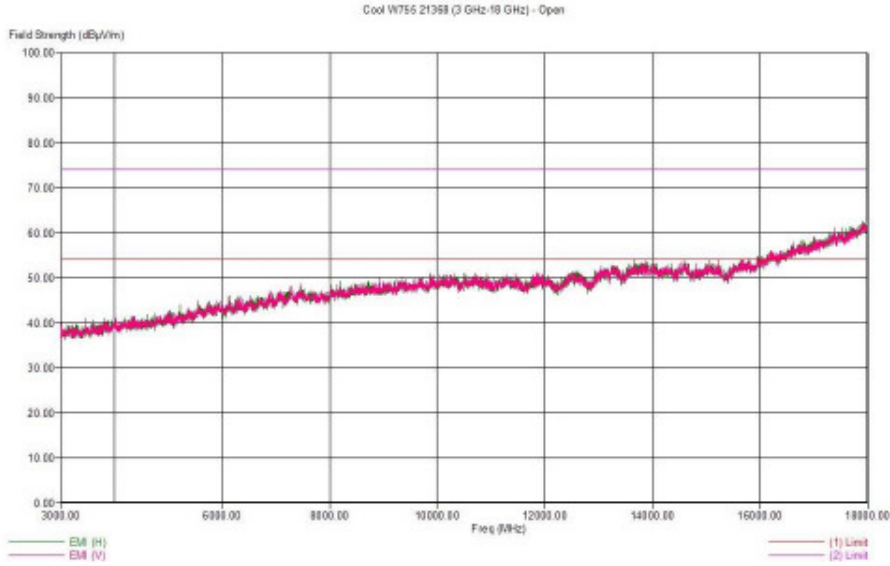
11/28/07 13:01:42
Sequence: Preliminary Scan



30-3000 MHz High Channel Dual Polarization Z

Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ES18) FCC15.247 RT2488 Tch-low_X 2007-11-28 -3-18.sst
Operator: ADR_kal EMC_TL1_kcr001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESR: ICL0288846
EUT Condition: Board Rev: P2, SW: COOL01_00 15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 0 (2482 MHz) up/dc in test mode. Orientation X*Y
EMCO 3115 antenna (3GHz - 18GHz). Peak detector used.

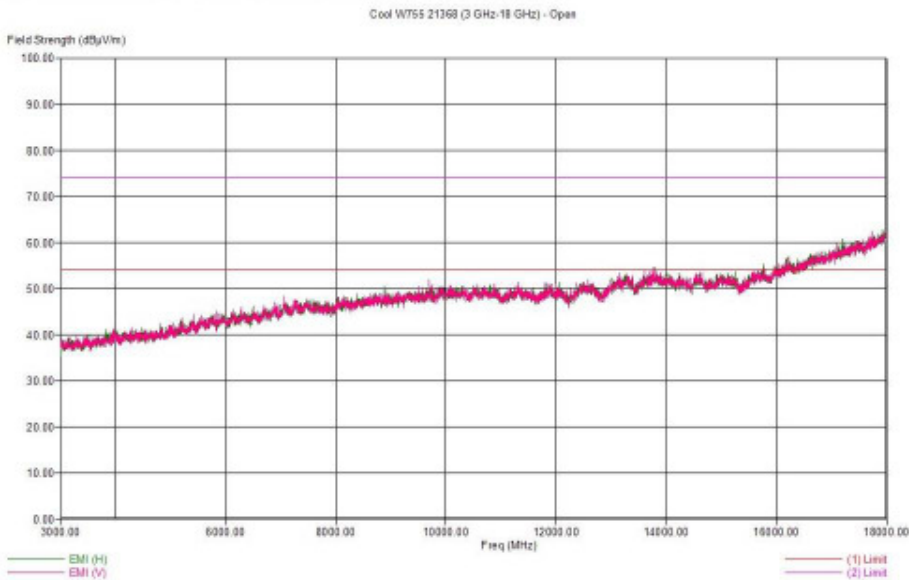
11/28/07 16:49:26
Sequence: Preliminary Scan



3-18 GHz Low Channel Dual Polarization X

Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ES18) FCC15.247 RT2488 Tch-low_Y 2007-11-28 -3-18.sst
Operator: ADR_kal EMC_TL1_kcr001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESR: ICL0288846
EUT Condition: Board Rev: P2, SW: COOL01_00 15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 0 (2482 MHz) up/dc in test mode. Orientation Y*V
EMCO 3115 antenna (3GHz - 18GHz). Peak detector used.

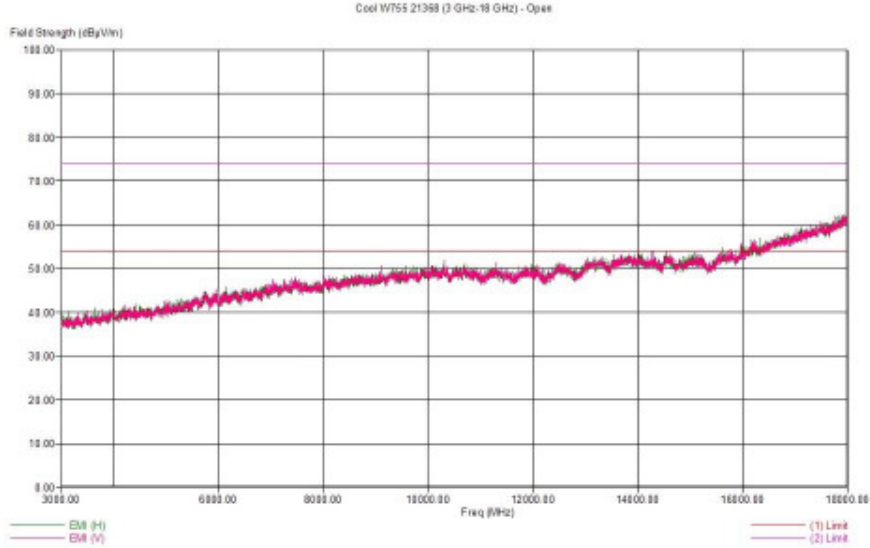
11/28/07 17:15:35
Sequence: Preliminary Scan



3-18 GHz Low Channel Dual Polarization Y

Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ES1B) FCC15.247 BT2408 Tch-low_X 2007-11-26 -3-18.net
Operator: ADR_A4L_EMC_TLI_kks081
EFT Type: COOL W755, FCC ID: IHDT56JB1, ESN: LC10280046
EFT Condition: Board Rev: P2, SW: COOL01_00.15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 0 (2402 MHz) up/down in test mode. Orientation X-Y
EMCO 3115 antenna (3GHz - 18GHz). Peak detector used.

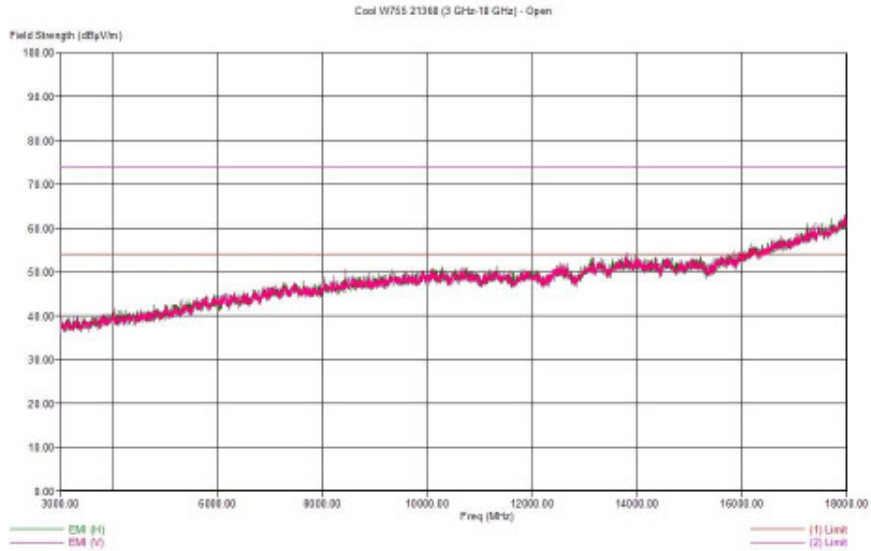
11/29/07 10:36:46
Sequence: Preliminary Scan



3-18 GHz Low Channel Dual Polarization Z

Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ES1B) FCC15.247 BT2400 Tch-mid_X 2007-11-20 -3-10.net
Operator: ADR_A4L_EMC_TLI_kks081
EFT Type: COOL W755, FCC ID: IHDT56JB1, ESN: LC10280046
EFT Condition: Board Rev: P2, SW: COOL01_00.15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 39 (2441 MHz) up/down in test mode. Orientation X-Y
EMCO 3115 antenna (3GHz - 18GHz). Peak detector used.

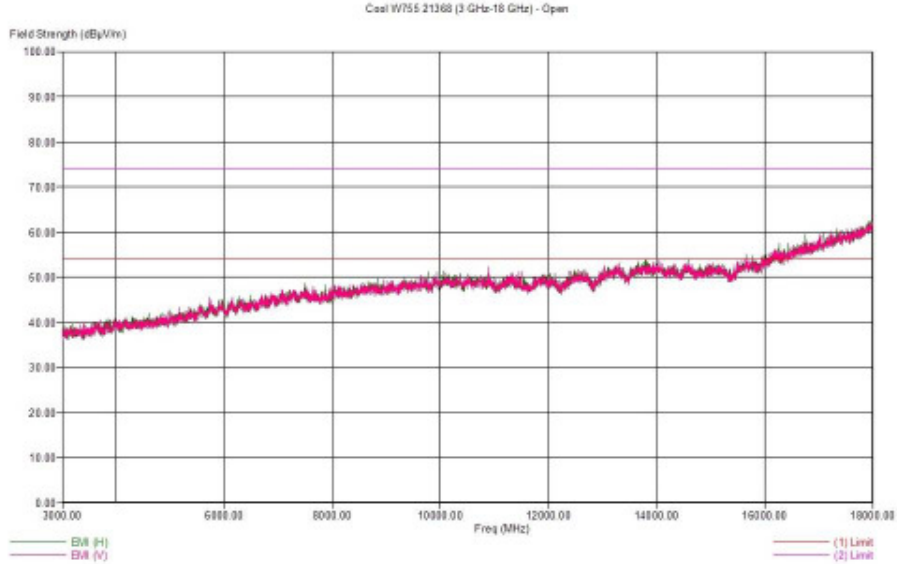
11/28/07 16:22:54
Sequence: Preliminary Scan



3-18 GHz Mid Channel Dual Polarization X

Title: FCC 15 247(c)
File: Cool W755 21368 (8.53)(ES18) FCC15.247 BT2400 Tch-mid_Y 2007-11-28 -3-18.set
Operator: ADR_AAL_ENC_TL1_hkr001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESN: ICL0280046
EUT Condition: Board Rev: P2, SW: COOL01_00.15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 35 (2441 MHz) up/down in test mode. Orientation Y-V
EMCO 3115 antenna (3GHz - 18GHz). Peak detector used.

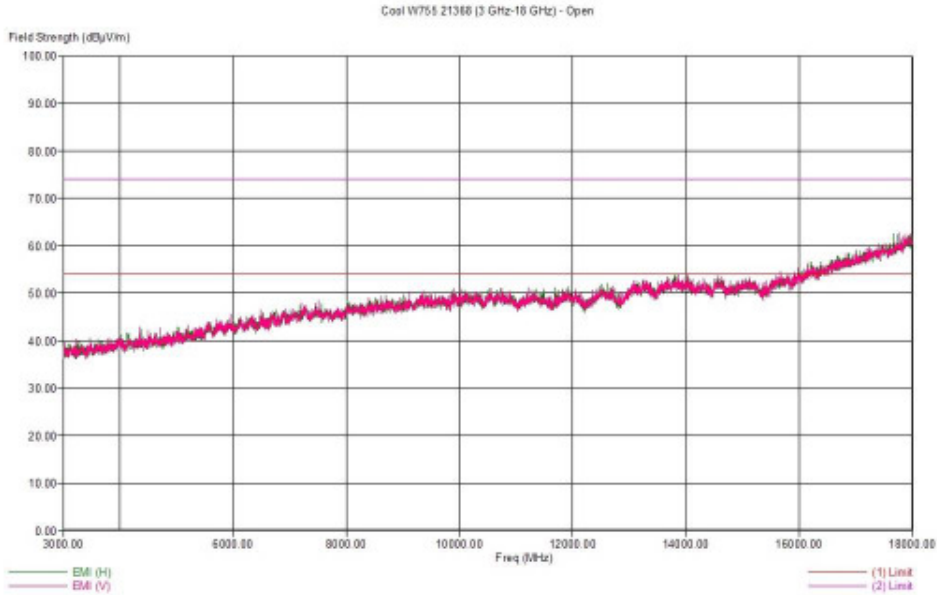
11/29/07 17:39:24
Sequence: Preliminary Scan



3-18 GHz Mid Channel Dual Polarization Y

Title: FCC 15 247(c)
File: Cool W755 21368 (8.53)(ES18) FCC15.247 BT2400 Tch-mid_Z 2007-11-28 -3-18.set
Operator: ADR_AAL_ENC_TL1_hkr001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESN: ICL0280046
EUT Condition: Board Rev: P2, SW: COOL01_00.15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 35 (2441 MHz) up/down in test mode. Orientation Z-V
EMCO 3115 antenna (3GHz - 18GHz). Peak detector used.

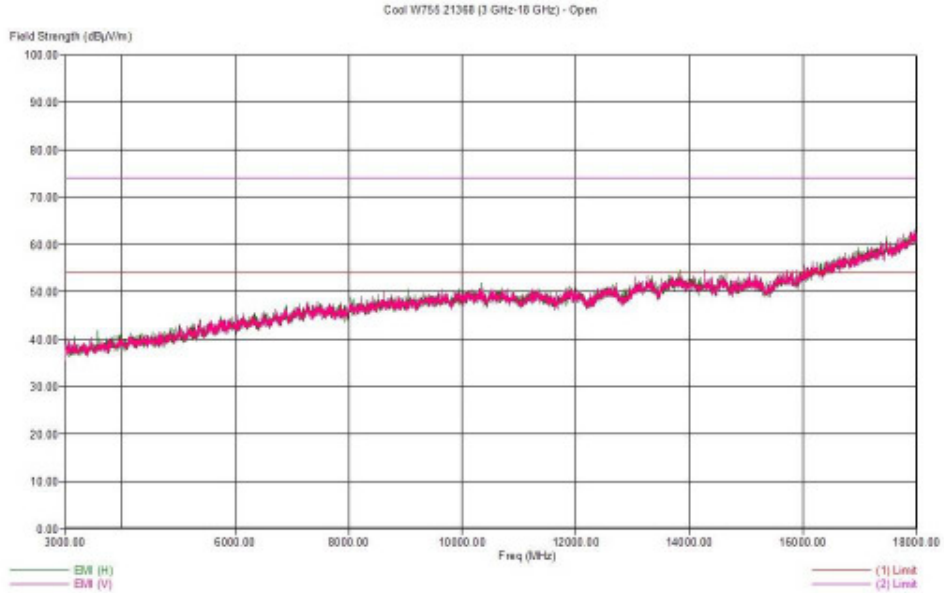
11/29/07 10:14:23
Sequence: Preliminary Scan



3-18 GHz Mid Channel Dual Polarization Z

Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ESIB) FCC15.247 BT2480 Tch-hgh_X 2007-11-28 -3-18.set
Operator: ADR_A&L_KNC_TL1_hkr001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESN: LC10280046
EUT Condition: Board Rev: P2, SW: COOL31.00.15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCR mode.
BT channel 79 (2480 MHz) up/down in test mode. Orientation X=V
EMCO 3115 antenna (3GHz - 18GHz). Peak detector used.

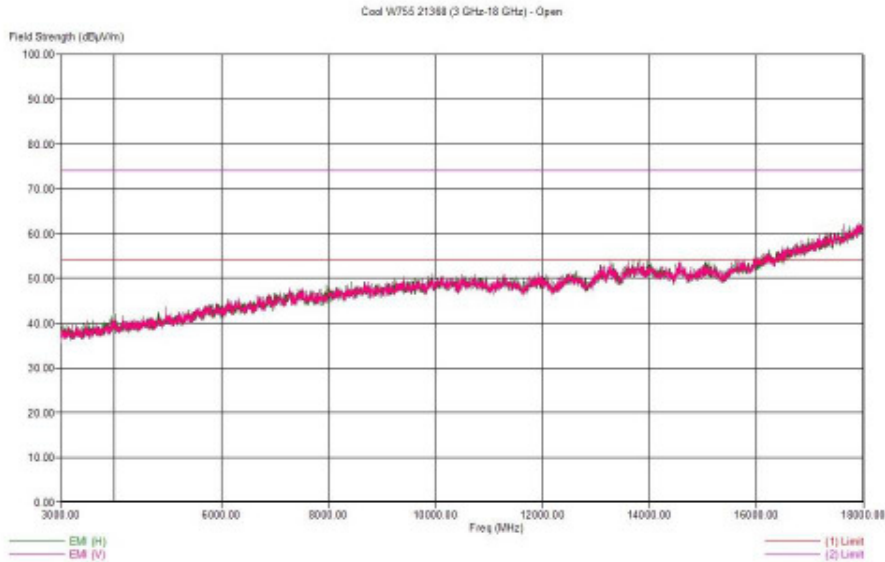
11/28/07 15:55:35
Sequence: Preliminary Scan



3-18 GHz High Channel Dual Polarization X

Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ESIB) FCC15.247 BT2480 Tch-hgh_Y 2007-11-28 -3-18.set
Operator: ADR_A&L_KNC_TL1_hkr001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESN: LC10280046
EUT Condition: Board Rev: P2, SW: COOL31.00.15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCR mode.
BT channel 79 (2480 MHz) up/down in test mode. Orientation T=V
EMCO 3115 antenna (3GHz - 18GHz). Peak detector used.

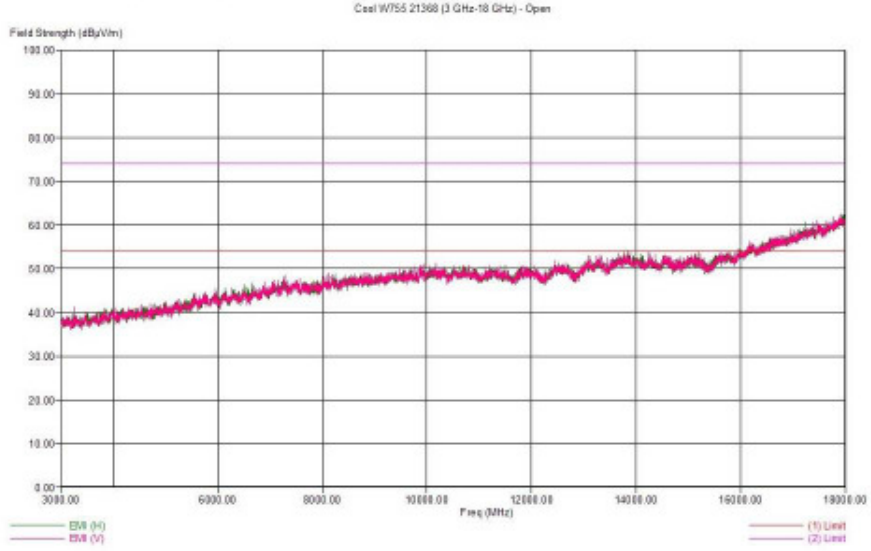
11/28/07 09:19:12
Sequence: Preliminary Scan



3-18 GHz High Channel Dual Polarization Y

Title: FCC 15.247(c)
File: Cool 0755 21368 (8.53)(KTB) FCC15.247 BT2480 Tch-gh_Z 2007-11-28 -3-10.net
Operator: ADR_44C_EMC_T11_Adr401
EUT Type: COOL 0755, FCC ID: IHDT56JB1, SSN: LCL0290046
EUT Condition: Board Rev: P2, SW: COOL01_00.15.00E (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCE mode.
BT channel: 78 (2480 MHz) up/down in test mode. Orientation Z-Y
EMC0 3115 antenna (3GHz - 18GHz). Peak detector used.

11/29/07 09:52:21
Sequence: Preliminary Scan

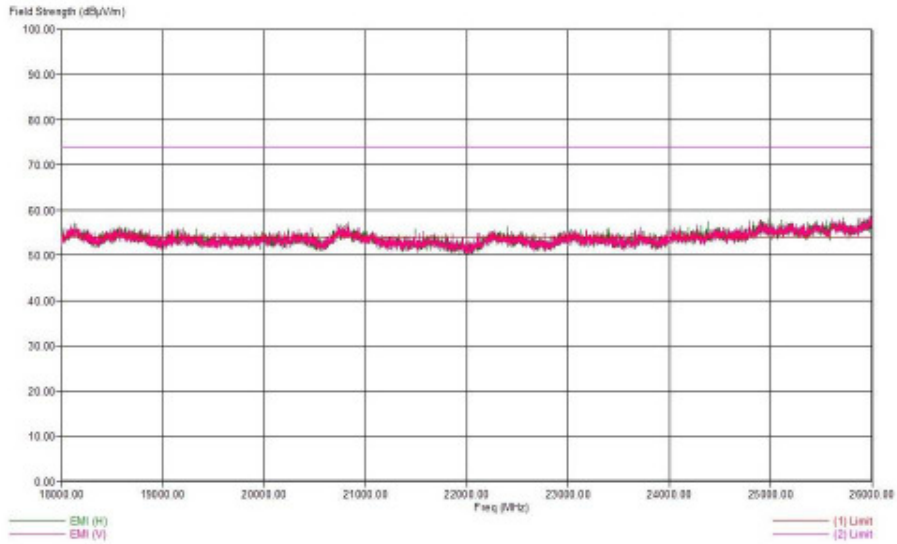


3-18 GHz High Channel Dual Polarization Z

Title: FCC 15.247(c)
File: Cool W755 21368 (8 53)(ESIB) FCC15.247 BT2488 Tch-low_X 2007-11-28 -18-25.set
Operator: ADR_AAL_EMC_YL1_hkr001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESN: ICLE288046
EUT Condition: Board Rev: P2, SW: COOL01_00 15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCM mode.
BT channel 1 (2482 MHz) up/down in test mode. Orientation X*Y
EMCO 3116 antenna (18GHz - 25GHz). Peak detector used.

11/29/07 12:53:25
Sequence: Preliminary Scan

Cool W755 21368 (18 GHz-25 GHz) - Open

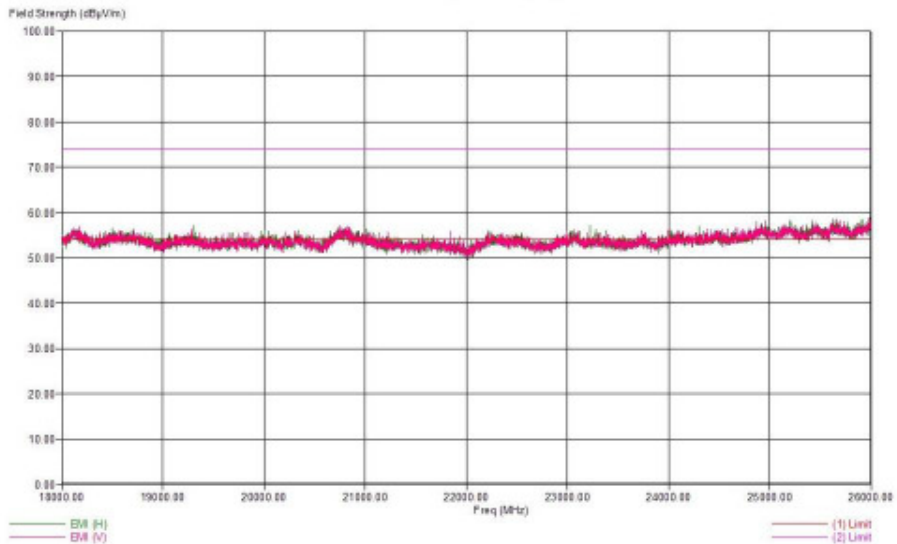


18-25 GHz Low Channel Dual Polarization X

Title: FCC 15.247(c)
File: Cool W755 21368 (8 53)(ESIB) FCC15.247 BT2488 Tch-low_Y 2007-11-28 -18-25.set
Operator: ADR_AAL_EMC_YL1_hkr001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESN: IC10288846
EUT Condition: Board Rev: P2, SW: COOL01_00 15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCM mode.
BT channel 0 (2482 MHz) up/down in test mode. Orientation Y*Y
EMCO 3116 antenna (18GHz - 25GHz). Peak detector used.

11/29/07 12:48:11
Sequence: Preliminary Scan

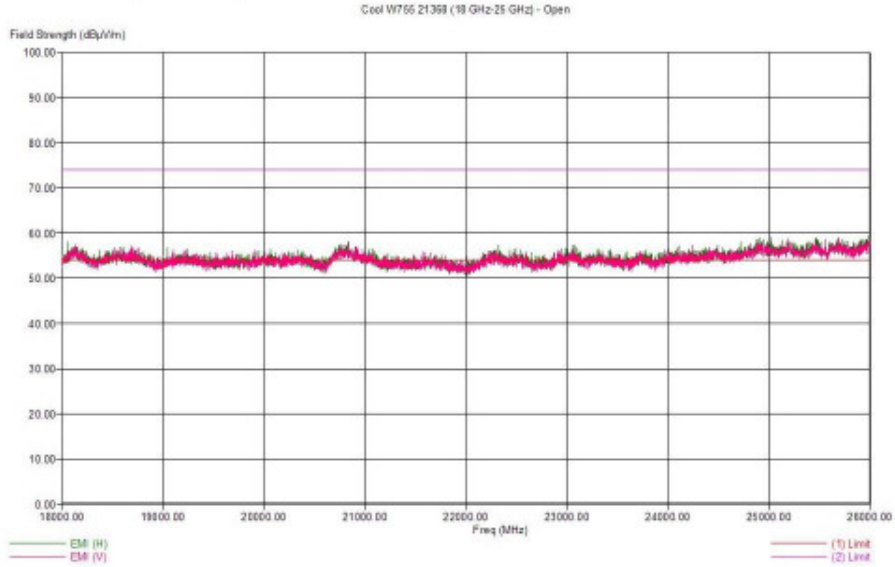
Cool W755 21368 (18 GHz-25 GHz) - Open



18-25 GHz Low Channel Dual Polarization Y

Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ESIB) FCC15.247 BT2400 Tch-low_Z 2007-11-28 -18-25.sst
Operator: ADR_kal_EMC_TLI_bkr001
EUT Type: COOL W755; FCC ID: IHDT56JB1; ESH: LCL0280045
EUT Condition: Board Rev: P2; SW: COOL11_00.1E.0SR [Open]
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 3 (2402 MHz) up/down in test mode. Orientation Z=V
EMCO 3116 antenna (18GHz - 25GHz). Peak detector used.

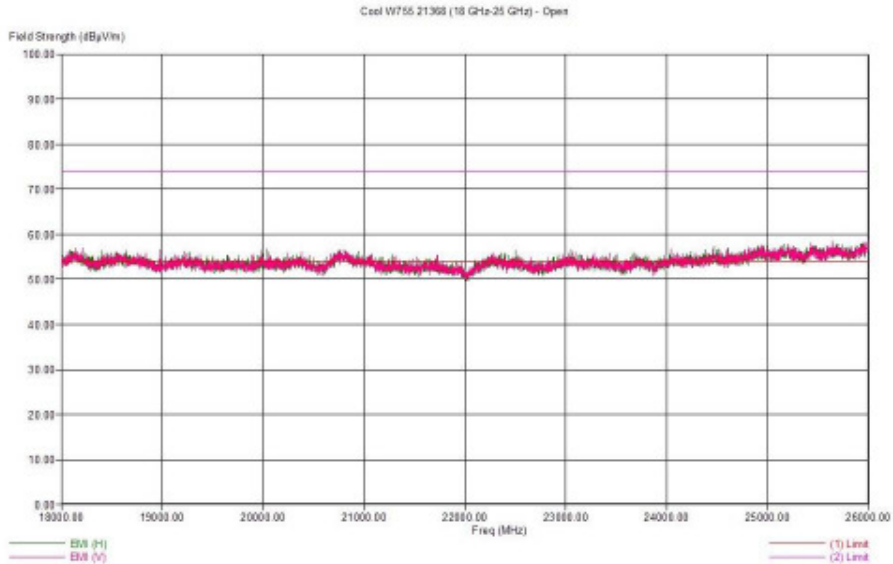
11/29/07 11:09:24
Sequence: Preliminary Scan



18-25 GHz Low Channel Dual Polarization Z

Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ESIB) FCC15.247 BT2400 Tch-mid_X 2007-11-28 -18-25.sst
Operator: ADR_kal_EMC_TLI_bkr001
EUT Type: COOL W755; FCC ID: IHDT56JB1; ESH: LCL0280045
EUT Condition: Board Rev: P2; SW: COOL11_00.1E.0SR [Open]
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 35 (2441 MHz) up/down in test mode. Orientation X=V
EMCO 3116 antenna (18GHz - 25GHz). Peak detector used.

11/29/07 13:08:24
Sequence: Preliminary Scan



18-25 GHz Mid Channel Dual Polarization X

Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ES1B) FCC15.247 BT2400 Tch-mid_Y 2007-11-28 -18-25.set
Operator: ADR_AAL EMC_TLI_hkr001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESN: 1C10288944
EUT Condition: Board Rev: P2, SW: COOL01_00.15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCR mode.
BT channel 39 (2441 MHz) up/down in test mode. Orientation Y+Y
EMCO 3116 antenna (18GHz - 25GHz). Peak detector used.

11/29/07 12:17:31
Sequence: Preliminary Scan



18-25 GHz Mid Channel Dual Polarization Y

Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ES1B) FCC15.247 BT2400 Tch-mid_Z 2007-11-28 -18-25.set
Operator: ADR_AAL EMC_TLI_hkr001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESN: 1C10288944
EUT Condition: Board Rev: P2, SW: COOL01_00.15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCR mode.
BT channel 39 (2441 MHz) up/down in test mode. Orientation Z+Y
EMCO 3116 antenna (18GHz - 25GHz). Peak detector used.

11/29/07 11:27:24
Sequence: Preliminary Scan

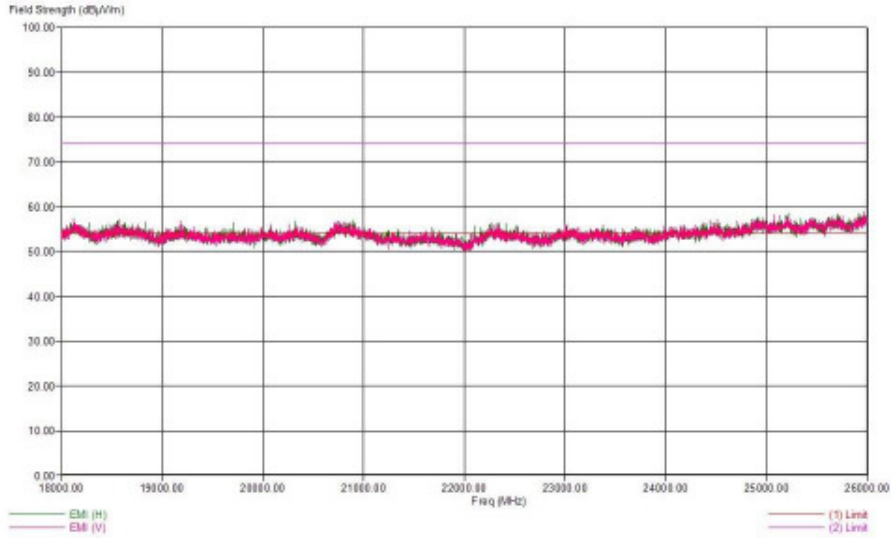


18-25 GHz Mid Channel Dual Polarization Z

Title: FCC 15.247(c)
File: Cool W755 21368 (8 53)(ESIB) FCC15.247 BT2400 Tch-hgh_X 2007-11-28 -18-25.net
Operator: AND_AAL_EMC_TLL_hky001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESR: LCL0280046
EUT Condition: Board Rev: P2, SW: COOL01_08 15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCB mode.
BT channel 78 (2480 MHz) up/down in test mode. Orientation X-Y
EMCO 3116 antenna (18GHz - 25GHz). Peak detector used.

11/29/07 13:24:05
Sequence: Preliminary Scan

Cool W755 21368 (18 GHz-25 GHz) - Open

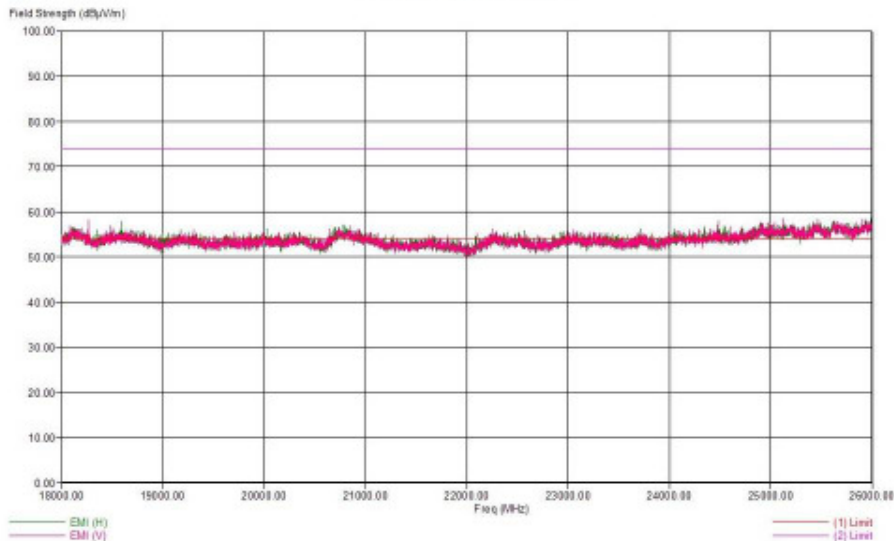


18-25 GHz High Channel Dual Polarization X

Title: FCC 15.247(c)
File: Cool W755 21368 (8 53)(ESIB) FCC15.247 BT2480 Tch-hgh_Y 2007-11-28 -18-25.net
Operator: AND_AAL_EMC_TLL_hky001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESR: LCL0280046
EUT Condition: Board Rev: P2, SW: COOL01_08 15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCB mode.
BT channel 78 (2480 MHz) up/down in test mode. Orientation Y-Y
EMCO 3116 antenna (18GHz - 25GHz). Peak detector used.

11/29/07 12:52:33
Sequence: Preliminary Scan

Cool W755 21368 (18 GHz-25 GHz) - Open



18-25 GHz High Channel Dual Polarization Y

Title: FCC 15.247(c)
File: Cool W755 21368 (8 53)(ESIB) FCC15.247 BT2400 Tch-hgh_Z 2007-11-28 -18-25.set
Operator: ADR_AAL_EMC_T11_hke001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESN: IC10280046
EUT Condition: Board Rev: P2, SW: COOL01_00.15.00R [Open]
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 78 (2480 MHz) up'do in test mode. Orientation Z-Y
EMCO 3114 antenna (18GHz - 25GHz). Peak detector used.

11/29/07 11:46:45
Sequence: Preliminary Scan



18-25 GHz High Channel Dual Polarization Z

BAND-EDGE COMPLIANCE OF RF RADIATED EMISSIONS

CFR Part 15.247

Measurement Procedure

The test sample is placed inside the semi-anechoic chamber on a polystyrene table at the turntable center. Test is repeated for both horizontal and vertical polarizations of the receive antenna.

Field Strength (dBuV/m) = EMI Receiver Level (dBuV) + Cable Loss (dB) + Filter Loss (dB) - Amplifier Gain (dB) + Antenna Correction Factor (3/m)

The test sample was operated in Bluetooth single channel test mode. A fully charged battery was used for the supply voltage.

Measurement Results

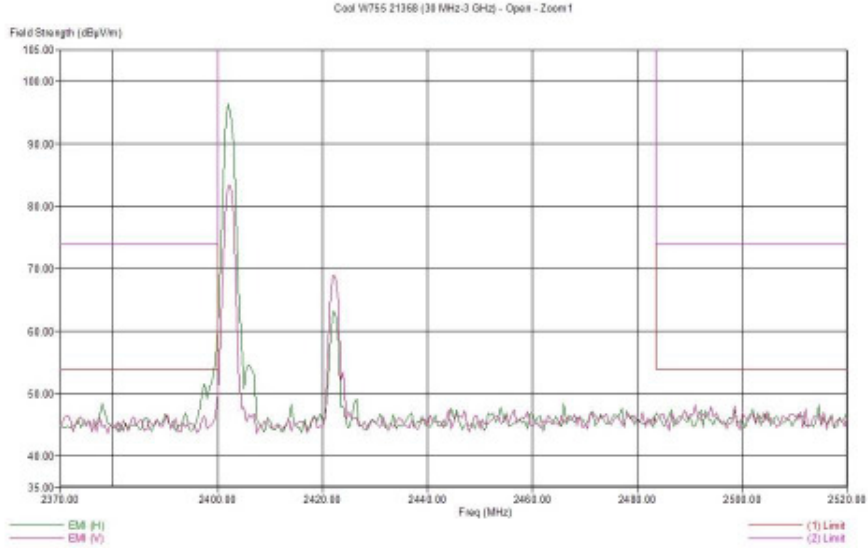
Comments:

The band edge measurements crossing the corner for the low channel with respect to the average limit line is acceptable when applying the FCC rule specified in CFR 47 part 15.35(b) for the use of peak detector above 1 GHz. The peak detector limit line has been added to the graphical plots.

See Attached:

Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ESSE) FCC15.247 BT2408 Tch-low_X 2007-11-28 -3.mst
Operator: ADR_jaj_EMC_TLI_kkw081
EET Type: COOL W755, FCC ID: IHDT56JB1, ESR: LC10280046
EET Condition: Board Rev: P2, SW: COOL01_80_15_00R (Open)
Comments: FCC 15.247(c)(1) BlueTooth (BT) emission in TCB mode.
BT channel 0 (2402 MHz) up/down in test mode. Orientation X+Y
NLP 2802C antenna (10MHz - 2 GHz). Peak detector used.

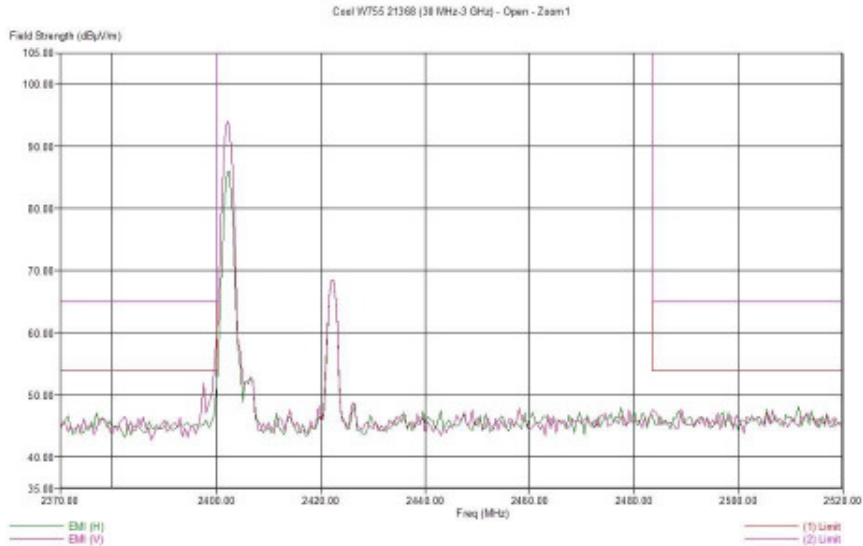
11/28/07 14:12:52
Sequence: Preliminary Scan



Authorized Band Emissions Low Channel Dual Polarization X

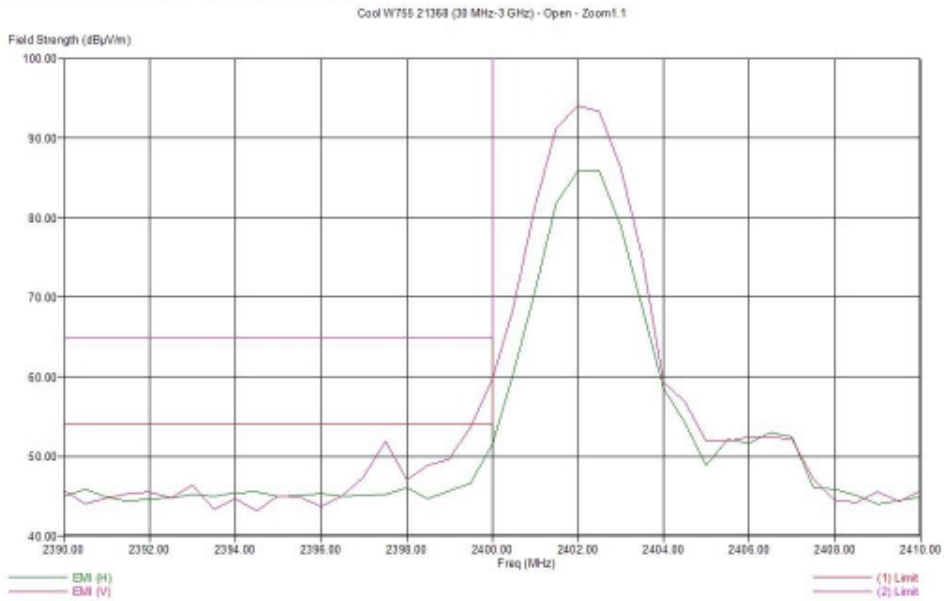
Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ESIB) FCC15.247 BT2400 Tch-low_Y 2007-11-28 -3.net
Operator: ADR_AAI_EMC_TLI_hkr001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESH: ICL0280046
EUT Condition: Board Rev: P2, SW: COOL01.00.15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 0 (2402 MHz) up/down in test mode. Orientation Y=V
RIP 3003C antenna (30MHz - 3 GHz). Peak detector used.

11/28/07 12:18:02
Sequence: Preliminary Scan



Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ESIB) FCC15.247 BT2400 Tch-low_Y 2007-11-28 -3.net
Operator: ADR_AAI_EMC_TLI_hkr001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESH: ICL0280046
EUT Condition: Board Rev: P2, SW: COOL01.00.15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 0 (2402 MHz) up/down in test mode. Orientation Y=V
RIP 3003C antenna (30MHz - 3 GHz). Peak detector used.

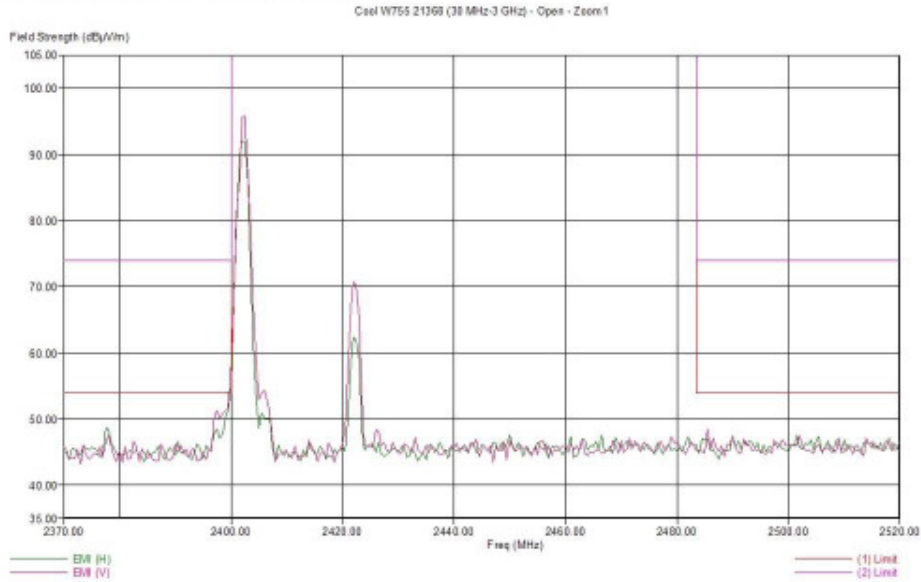
11/28/07 12:18:02
Sequence: Preliminary Scan



Authorized Band Emissions Low Channel Dual Polarization Y

Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ES1B) FCC15.247 BT2400 Tch-low_Z 2007-11-28 -3.set
Operator: ADR_AAL_EMC_T11_hkr001
EUT Type: C001 W755, FCC ID: IHDT56JB1, ESN: IC10280046
EUT Condition: Board Rev: P2, SW: C00101_00_15_00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 0 (2402 MHz) up/down in test mode. Orientation Z-Y
HLP 3003C antenna (30MHz - 3 GHz). Peak detector used.

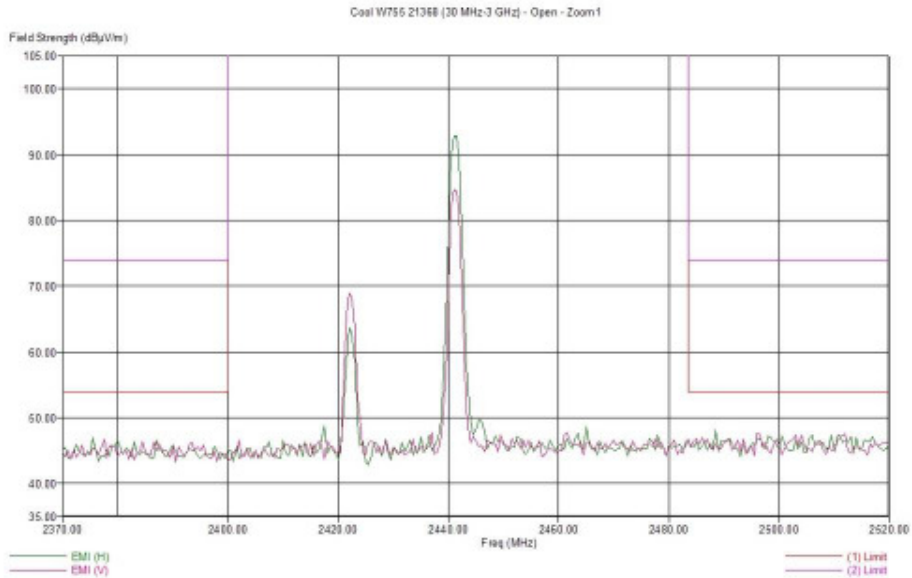
11/28/07 13:47:30
Sequence: Preliminary Scan



Authorized Band Emissions Low Channel Dual Polarization Z

Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ES1B) FCC15.247 BT2400 Tch-mid_X 2007-11-28 -3.set
Operator: ADR_AAL_EMC_T11_hkr001
EUT Type: C001 W755, FCC ID: IHDT56JB1, ESN: IC10280046
EUT Condition: Board Rev: P2, SW: C00101_00_15_00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 39 (2441 MHz) up/down in test mode. Orientation X-Y
HLP 3003C antenna (30MHz - 3 GHz). Peak detector used.

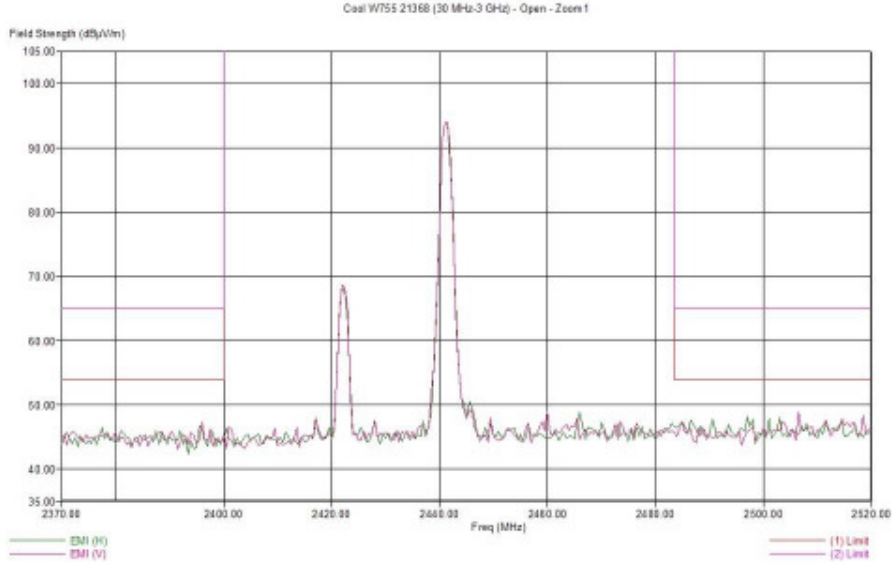
11/28/07 14:51:40
Sequence: Preliminary Scan



Authorized Band Emissions Mid Channel Dual Polarization X

Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ES18) FCC15.247 BT2400 Tch-mid_Y 2007-11-28 -3.net
Operator: ADR_AAL EMC_TL1_hkr001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESN: LC10288846
EUT Condition: Board Rev: P2, SW: COOL01_00_15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 39 (2441 MHz) up/down in test mode. Orientation Y-F
HLP 3002C antenna (30MHz - 3 GHz). Peak detector used.

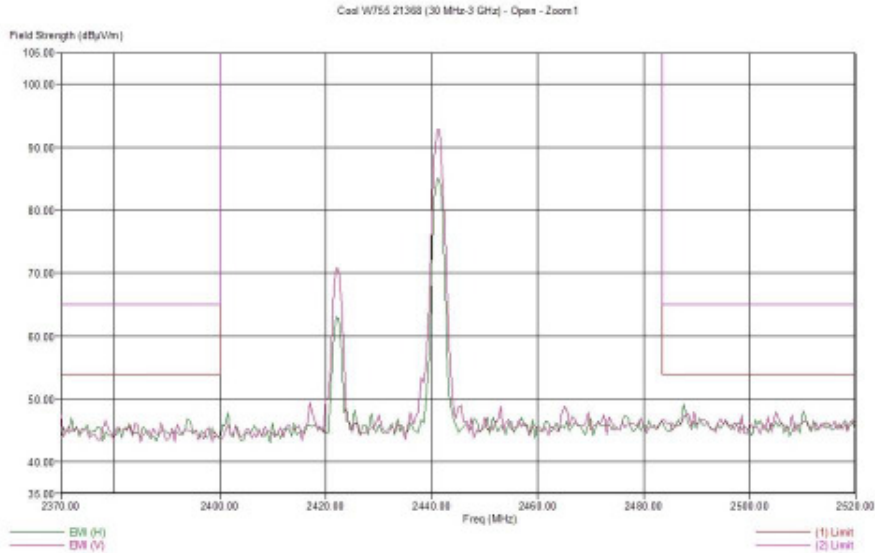
11/28/07 11:54:28
Sequence: Preliminary Scan



Authorized Band Emissions Mid Channel Dual Polarization Y

Title: FCC 15.247(c)
File: Cool W755 21368 (8.53)(ES18) FCC15.247 BT2400 Tch-mid_Z 2007-11-28 -3.net
Operator: ADR_AAL EMC_TL1_hkr001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESN: LC10288846
EUT Condition: Board Rev: P2, SW: COOL01_00_15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 29 (2441 MHz) up/down in test mode. Orientation X-Y
HLP 3002C antenna (30MHz - 3 GHz). Peak detector used.

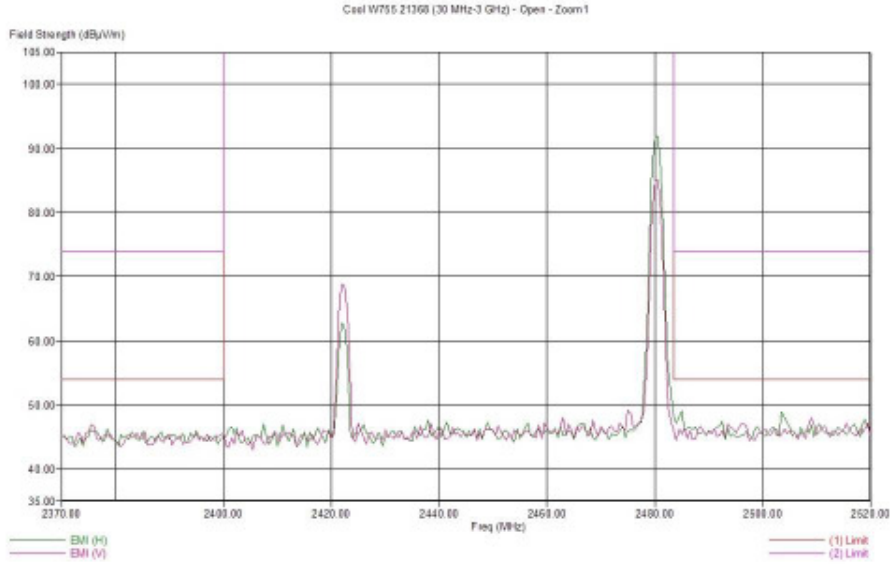
11/28/07 13:27:16
Sequence: Preliminary Scan



Authorized Band Emissions Mid Channel Dual Polarization Z

Title: FCC 15.247(c)
File: Cool W755 21368 (8.52)(ESIR) FCC15.247 BT2400 Tch-hgh_X 2007-11-28 -3.set
Operator: ADR_AAL EMC_TL1_hkr001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESN: LCL0280046
EUT Condition: Board Rev: P2, SW: COOL31_00 15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 78 (2480 MHz) up/down in test mode. Orientation X-Y
EIP 3003C antenna (30MHz = 3 GHz). Peak detector used.

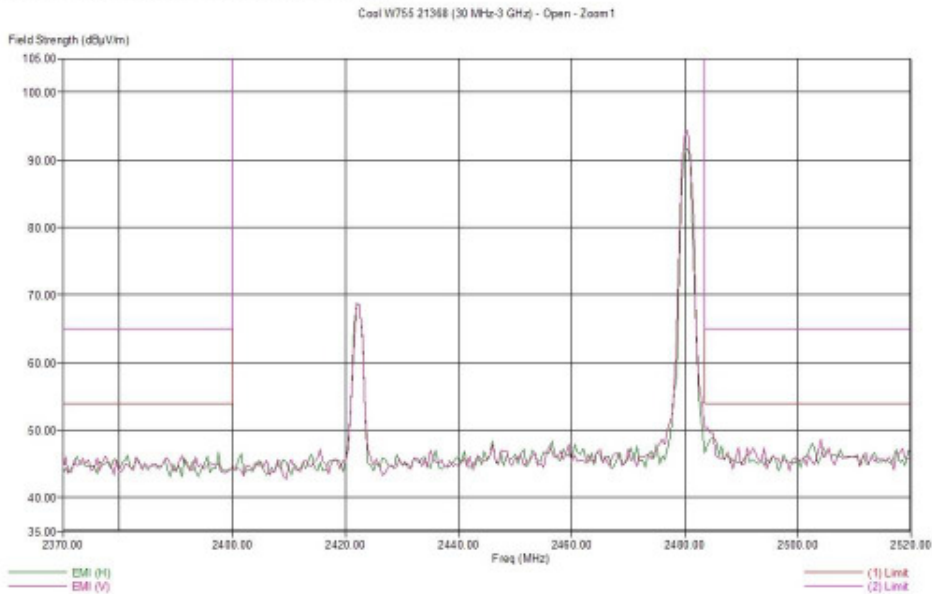
11/28/07 15:15:57
Sequence: Preliminary Scan



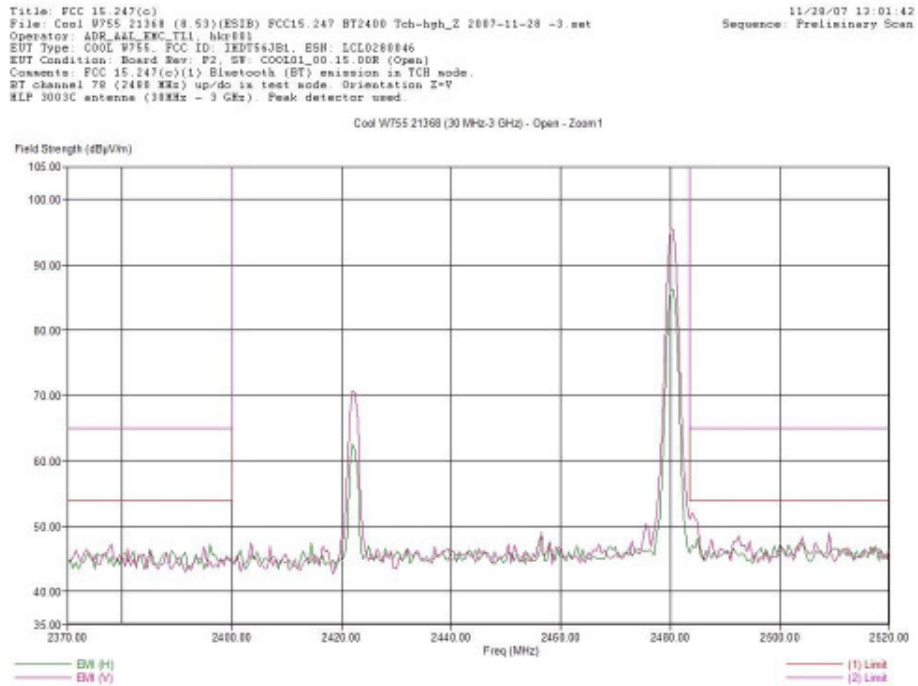
Authorized Band Emissions High Channel Dual Polarization X

Title: FCC 15.247(c)
File: Cool W755 21368 (8.52)(ESIR) FCC15.247 BT2400 Tch-hgh_Y 2007-11-28 -2.set
Operator: ADR_AAL EMC_TL1_hkr001
EUT Type: COOL W755, FCC ID: IHDT56JB1, ESN: LCL0280046
EUT Condition: Board Rev: P2, SW: COOL31_00 15.00R (Open)
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 78 (2480 MHz) up/down in test mode. Orientation Y-Y
EIP 3003C antenna (30MHz = 3 GHz). Peak detector used.

11/28/07 12:37:45
Sequence: Preliminary Scan



Authorized Band Emissions High Channel Dual Polarization Y



Authorized Band Emissions High Channel Dual Polarization Z

PICTURES

The pictures related to the above test results are placed in the associated report denoted as EXHIBIT 6A-1-Pictures.

End of Test Report