



FCC TEST REPORT

REPORT NO.: RF121017D11B-1

MODEL NO.: ASUS CUBE WITH GOOGLE TV RC

FCC ID: MSQ-QUBERC01U

RECEIVED: Apr. 30, 2013

TESTED: Apr. 30, 2013

ISSUED: May 10, 2013

APPLICANT: ASUSTeK COMPUTER INC.

ADDRESS: 4F, No.150, LI-TE RD., PEITOU, TAIPEI,
TAIWAN, R.O.C.

ISSUED BY: Bureau Veritas Consumer Products Services
(H.K.) Ltd., Taoyuan Branch

LAB LOCATION: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist.,
New Taipei City, Taiwan, R.O.C.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF121017D11B-1	Original release	May 10, 2013



1. CERTIFICATION

PRODUCT: Media Streamer RC

BRAND: ASUS

MODEL NO.: ASUS CUBE WITH GOOGLE TV RC

APPLICANT: ASUSTeK COMPUTER INC.

TESTED: Apr. 30, 2013

TEST SAMPLE: MASS-PRODUCTION

STANDARDS: FCC Part 15, Subpart C (Section 15.249)

ANSI C63.10-2009

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 : Celia Chen , **DATE:** May 10, 2013
(Celia Chen / Senior Specialist)

APPROVED BY : Ken Liu , **DATE:** May 10, 2013
(Ken Liu / Senior Manager)

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C (Section 15.249)			
STANDARD PARAGRAPH	TEST TYPE	RESULT	REMARK
15.207	Conducted Emission Test	N/A	Power supply is 3.0Vdc from batteries
15.209 15.249 15.249 (d)	Radiated Emission Test Band Edge Measurement Limit: 50dB less than the peak value of fundamental frequency or meet radiated emission limit in section 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -8.9dB at 2390.00MHz.

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:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Frequency	Uncertainty
Radiated emissions	30MHz ~ 1GHz	4.30 dB
	Above 1GHz	3.36 dB

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Media Streamer RC
MODEL NO.	ASUS CUBE WITH GOOGLE TV RC
POWER SUPPLY	3.0Vdc from batteries
MODULATION TYPE	GFSK
OPERATING FREQUENCY	2403MHz ~ 2480MHz
NUMBER OF CHANNEL	70
ANTENNA TYPE	Printed monopole antenna with 1.88dBi gain
DATA CABLE	N/A
I/O PORT	N/A
ACCESSORY DEVICES	N/A

NOTE:

1. This report is a supplementary report of original one (BV CPS report no.: RF121017D11-1 R1) issued on Mar. 14, 2013 to verify test result for adding extra channels through software enabling.
2. The changes are meeting the software changes of the permissive changes rules; therefore this report is prepared for FCC class II permissive change.
3. The EUT is a Media Streamer RC.
4. The above EUT information is declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



3.2 DESCRIPTION OF TEST MODES

70 channels are provided to this EUT:

CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
1	2403	21	2429	41	2449	61	2468
2	2410	22	2430	42	2450	62	2468.5
3	2411	23	2431	43	2451	63	2469
4	2412	24	2432	44	2452	64	2470
5	2413	25	2433	45	2453	65	2470.5
6	2414	26	2434	46	2454	66	2471
7	2415	27	2435	47	2455	67	2472
8	2416	28	2436	48	2456	68	2472.5
9	2417	29	2437	49	2457	69	2473
10	2418	30	2438	50	2458	70	2480
11	2419	31	2439	51	2459		
12	2420	32	2440	52	2460		
13	2421	33	2441	53	2461		
14	2422	34	2442	54	2462		
15	2423	35	2443	55	2463		
16	2424	36	2444	56	2464		
17	2425	37	2445	57	2465		
18	2426	38	2446	58	2466		
19	2427	39	2447	59	2466.5		
20	2428	40	2448	60	2467		

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	PLC	RE ³ 1G	RE<1G	BM	
-	Note 1	√	√	√	-

Where **PLC**: Power Line Conducted Emission **RE³1G**: Radiated Emission above 1GHz
RE<1G: Radiated Emission below 1GHz **BM**: Bandedge Measurement

NOTE 1: No need to concern of Conducted Emission due to the EUT is powered by batteries.

NOTE2: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Y-plane.

RADIATED EMISSION TEST (ABOVE 1 GHz):

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

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
-	1 to 70	1, 33, 70	GFSK

RADIATED EMISSION TEST (BELOW 1 GHz):

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

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
-	1 to 70	1	GFSK

BANDEDGE MEASUREMENT:

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

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
-	1 to 70	1, 70	GFSK

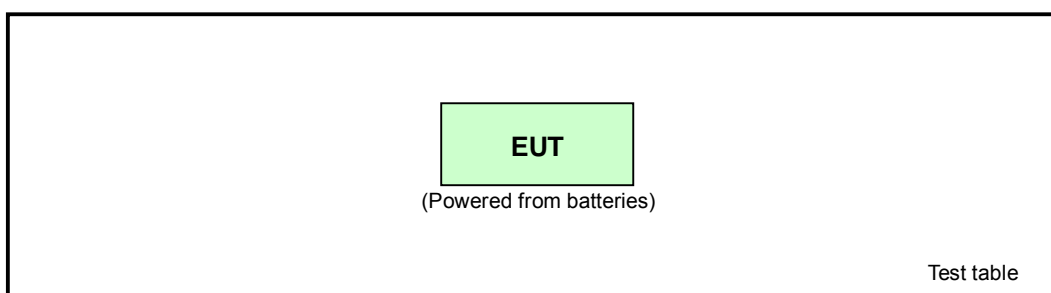
TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE ³ 1G	23deg. C, 77% RH	3.0Vdc	Dalen Dai
RE<1G	23deg. C, 77% RH	3.0Vdc	Dalen Dai
BM	23deg. C, 77% RH	3.0Vdc	Dalen Dai

3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together without any necessary accessory or support unit.

3.3.1 CONFIGURATION OF SYSTEM UNDER TEST





3.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

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 (Section 15.249)

ANSI C63.10-2009

All test items have been performed and recorded as per the above standards.

4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

N/A

4.2 RADIATED EMISSION AND BAND EDGE MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION AND BAND EDGE MEASUREMENT

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
902 ~ 928 MHz	50	500
2400 ~ 2483.5 MHz	50	500
5725 ~ 5875 MHz	50	500
24 ~ 24.25 GHz	250	2500

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits as below table, whichever is the lesser attenuation

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.



4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
HP Preamplifier	8447D	2432A03504	Feb. 26, 2013	Feb. 25, 2014
HP Preamplifier	8449B	3008A01201	Feb. 26, 2013	Feb. 25, 2014
Agilent Spectrum Analyzer	E4446A	MY46180403	Jun. 13, 2012	Jun. 12, 2013
ROHDE & SCHWARZ Test Receiver	ESCS 30	838251/021	Oct. 11, 2012	Oct. 10, 2013
Schwarzbeck Antenna	VULB 9168	137	Mar. 20, 2013	Mar. 19, 2014
Schwarzbeck Antenna	VHBA 9123	480	May 22, 2012	May 21, 2013
ADT. Turn Table	TT100	0306	NA	NA
ADT. Tower	AT100	0306	NA	NA
Software	ADT_Radiated_V 7.6.15.9.2	NA	NA	NA
SUHNER RF cable	SF102	CABLE-CH6	Aug. 19, 2012	Aug. 18, 2013
Schwarzbeck Horn Antenna	BBHA 9120-D1	D130	May 18, 2012	May 17, 2013
Highpass filter Wainwright Instruments	WHK 3.1/18G-10SS	SN 8	NA	NA

- 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 horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 3. The test was performed in Chamber No. 6.
 4. The Industry Canada Reference No. IC 7450E-6.
 5. The FCC Site Registration No. is 447212.

4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

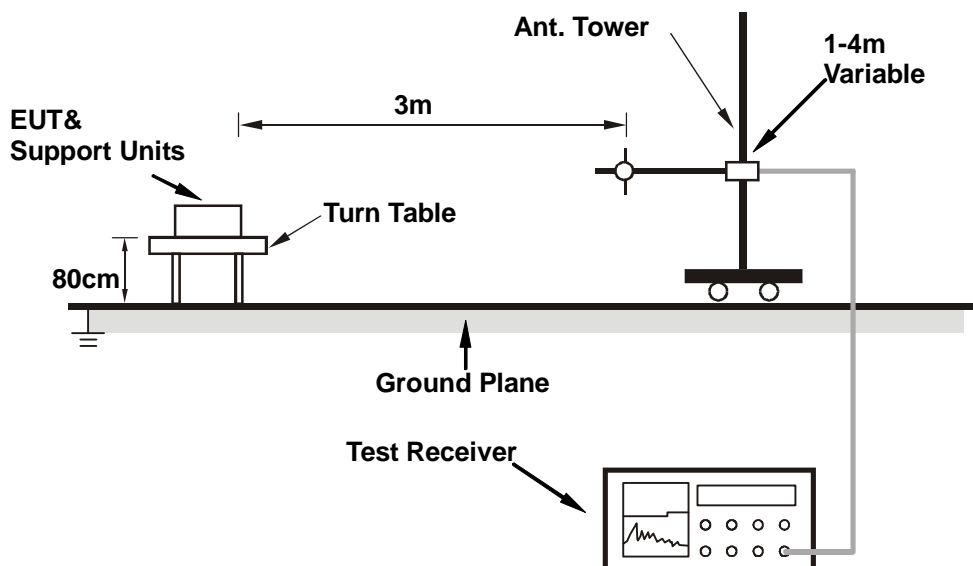
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



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

4.2.6 EUT OPERATING CONDITIONS

Set the EUT under transmission condition continuously at specific channel frequency.



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4.2.7 TEST RESULTS

ABOVE 1GHz DATA

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	61.9 PK	74.0	-12.1	1.29 H	63	29.63	32.25
2	2390.00	45.1 AV	54.0	-8.9	1.29 H	63	12.81	32.25
3	2400.00	58.6 PK	74.0	-15.4	1.29 H	63	26.35	32.29
4	2400.00	31.9 AV	54.0	-22.1	1.29 H	63	-0.35	32.29
5	*2403.00	100.9 PK	114.0	-13.1	1.29 H	63	68.64	32.30
6	*2403.00	74.2 AV	94.0	-19.8	1.29 H	63	41.94	32.30
7	4806.00	55.9 PK	74.0	-18.1	1.13 H	108	16.49	39.39
8	4806.00	29.2 AV	54.0	-24.8	1.13 H	108	-10.21	39.39
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	60.6 PK	74.0	-13.4	1.12 V	91	28.32	32.25
2	2390.00	45.0 AV	54.0	-9.0	1.12 V	91	12.71	32.25
3	2400.00	55.9 PK	74.0	-18.1	1.12 V	91	23.59	32.29
4	2400.00	29.2 AV	54.0	-24.8	1.12 V	91	-3.11	32.29
5	*2403.00	98.2 PK	114.0	-15.8	1.12 V	91	65.88	32.30
6	*2403.00	71.5 AV	94.0	-22.5	1.12 V	91	39.18	32.30
7	4806.00	59.3 PK	74.0	-14.7	1.11 V	263	19.92	39.39
8	4806.00	32.6 AV	54.0	-21.4	1.11 V	263	-6.78	39.39

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) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “ * “ : Fundamental frequency
6. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:
 $20 \log (\text{Duty cycle}) = 20 \log (0.38 \text{ ms} / 8.22 \text{ ms}) = -26.7 \text{ dB}$
Please see page 18 for plotted duty.



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CHANNEL	TX Channel 33	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	101.6 PK	114.0	-12.4	1.00 H	67	71.20	30.43
2	*2441.00	74.9 AV	94.0	-19.1	1.00 H	67	44.50	30.43
3	4882.00	57.4 PK	74.0	-16.6	1.34 H	114	20.63	36.79
4	4882.00	30.7 AV	54.0	-23.3	1.34 H	114	-6.07	36.79
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	*2441.00	99.4 PK	114.0	-14.6	1.00 V	93	68.97	30.43
2	*2441.00	72.7 AV	94.0	-21.3	1.00 V	93	42.27	30.43
3	4882.00	60.5 PK	74.0	-13.5	1.16 V	154	23.72	36.79
4	4882.00	33.8 AV	54.0	-20.2	1.16 V	154	-2.98	36.79

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) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “ * “ : Fundamental frequency
6. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:
 $20 \log (\text{Duty cycle}) = 20 \log (0.38 \text{ ms} / 8.22 \text{ ms}) = -26.7 \text{ dB}$
Please see page 18 for plotted duty.



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CHANNEL	TX Channel 70	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

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	*2480.00	101.0 PK	114.0	-13.0	1.07 H	66	68.38	32.66
2	*2480.00	74.3 AV	94.0	-19.7	1.07 H	66	41.68	32.66
3	2483.50	60.2 PK	74.0	-13.8	1.07 H	66	27.57	32.67
4	2483.50	33.5 AV	54.0	-20.5	1.07 H	66	0.87	32.67
5	4960.00	61.9 PK	74.0	-12.1	1.37 H	111	22.23	39.66
6	4960.00	35.2 AV	54.0	-18.8	1.37 H	111	-4.47	39.66

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

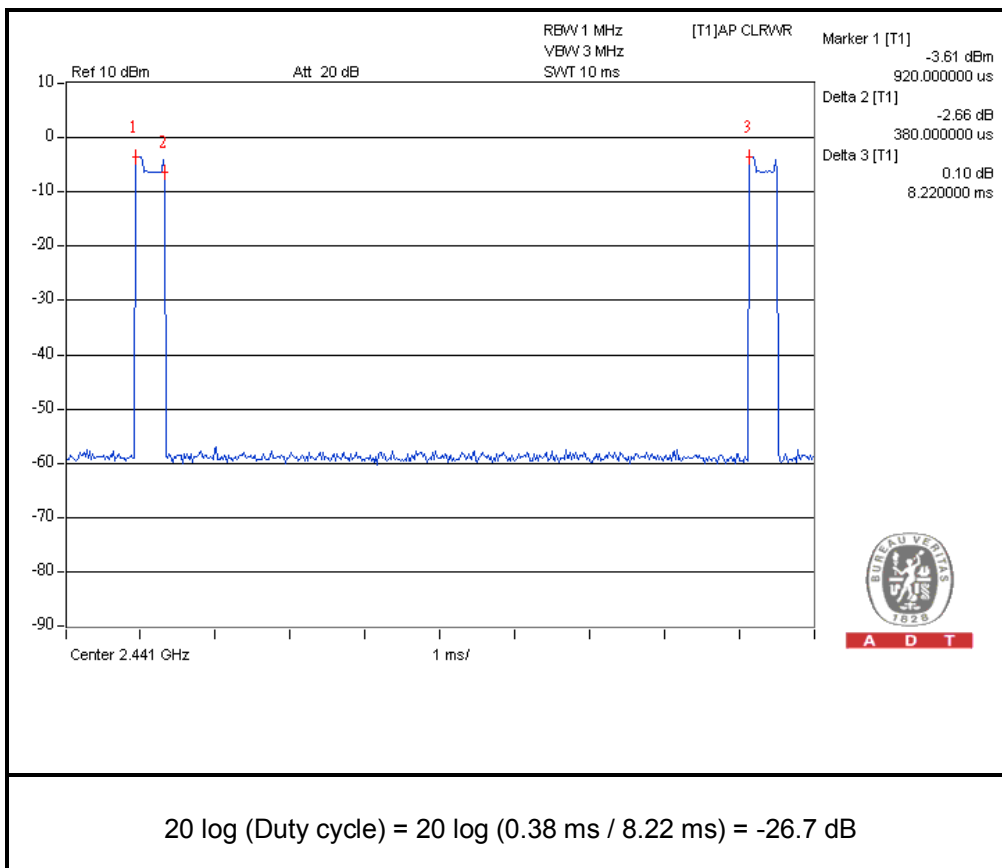
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	99.1 PK	114.0	-14.9	1.10 V	90	66.41	32.66
2	*2480.00	72.4 AV	94.0	-21.6	1.10 V	90	39.71	32.66
3	2483.50	58.3 PK	74.0	-15.7	1.10 V	90	25.60	32.67
4	2483.50	31.6 AV	54.0	-22.4	1.10 V	90	-1.10	32.67
5	4960.00	62.8 PK	74.0	-11.2	1.02 V	275	23.11	39.66
6	4960.00	36.1 AV	54.0	-17.9	1.02 V	275	-3.59	39.66

REMARKS:

- Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use.
- The other emission levels were very low against the limit.
- Margin value = Emission level – Limit value.
- “ * “ : Fundamental frequency
- The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:
 $20 \log (\text{Duty cycle}) = 20 \log (0.38 \text{ ms} / 8.22 \text{ ms}) = -26.7 \text{ dB}$
Please see page 18 for plotted duty.



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BELOW 1GHz WORST-CASE DATA

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak
FREQUENCY RANGE	Below 1000MHz		

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	54.25	15.1 QP	40.0	-24.9	1.04 H	292	0.38	14.70
2	159.98	13.4 QP	43.5	-30.1	1.10 H	11	-1.09	14.51
3	384.05	20.8 QP	46.0	-25.2	1.36 H	248	2.62	18.15
4	629.46	23.4 QP	46.0	-22.6	1.27 H	243	-0.91	24.27
5	815.70	27.2 QP	46.0	-18.8	1.02 H	253	-0.13	27.29
6	954.41	28.1 QP	46.0	-18.0	1.07 H	127	-1.07	29.12

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	79.47	21.9 QP	40.0	-18.1	1.05 V	32	11.54	10.34
2	98.87	19.5 QP	43.5	-24.0	1.13 V	26	9.83	9.68
3	176.47	17.5 QP	43.5	-26.0	1.26 V	198	4.21	13.33
4	547.98	22.2 QP	46.0	-23.8	1.19 V	267	0.03	22.19
5	744.89	25.7 QP	46.0	-20.3	1.13 V	10	-0.40	26.08
6	855.47	27.2 QP	46.0	-18.8	1.06 V	275	-0.54	27.74

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) if use.
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



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5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



6. 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:

Linko EMC/RF Lab

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

7. APPENDIX A – MODIFICATION RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

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