

FCC Test Report

Report No.: RF160325C20-1

FCC ID: 2AH7L-NX2TO7

Model: Micrologic X

Internal Model: Micrologic 2.0X, Micrologic 5.0X, Micrologic 6.0X and Micrologic 7.0X

(refer to item 3.1 for more details)

Received Date: Mar. 21, 2016

Test Date: Mar. 21 ~ Oct. 25, 2016

Issued Date: Oct. 25, 2016

Applicant: Schneider Electric Industries SAS

Address: Electropole Site - 38EQI, 31 rue Pierre Mendes France, Eybens - 38050

Grenoble cedex 9

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

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R.O.C.

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33383, TAIWAN (R.O.C.)





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Release Control Record

Issue No.	Description	Date Issued
RF160325C20-1	Original release	Oct. 25, 2016

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1 Certificate of Conformity

Product: Control Units

Brand: Schneider Electric

Model: Micrologic X

Internal Model: Micrologic 2.0X, Micrologic 5.0X, Micrologic 6.0X and Micrologic 7.0X (refer to item

3.1 for more details)

Sample Status: Engineering sample

Applicant: Schneider Electric Industries SAS

Test Date: Mar. 21 ~ Oct. 25, 2016

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: Oct. 25, 2016

Polly Chien / Specialist

Approved by: , Date: Oct. 25, 2016

Ken Liu / Senior Manager



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 -12.19dB at 0.15391MHz.		
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -5.9dB at 2483.50MHz.		
15.247(d)	Antenna Port Emission	Pass	Meet the requirement of limit.		
15.247(a)(2)	6dB bandwidth	Pass	Meet the requirement of limit.		
15.247(b)	Conducted power	Pass	Meet the requirement of limit.		
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.		
15.203	Antenna Requirement	Pass	No antenna connector is used		

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	2.44 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.63 dB
Radiated Effissions up to 1 GHz	200MHz ~1000MHz	3.64 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
Radiated Emissions above 1 GHZ	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.



3 General Information

3.1 General Description of EUT

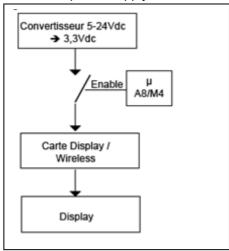
Product	Control Units
Brand	Schneider Electric
Model	Micrologic X
Internal Model	Micrologic 2.0X, Micrologic 5.0X, Micrologic 6.0X and Micrologic 7.0X
Model Difference	Refer to note for more details
Status of EUT	Engineering sample
Power Supply Rating	24Vdc
Modulation Type	O-QPSK
Frequency Range	2400 ~ 2483.5MHz
Operating Frequency	2405 ~ 2480MHz
Number of Channel	16
Output Power	1.837mW
Antenna Type	Chip antenna with 3dBi gain
Antenna Connector	NA
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. All internal models are listed as below. Internal Model: Micrologic 7.0X was the worst case for final test. The difference of model Micrologic 7.0x is circuit protection layout of ELCB (earth leakage circuit breaker), however the RF circuit are identical.

Brand	Internal Model	Difference
	Micrologic 2.0X, Micrologic 5.0X, Micrologic 6.0X	Protection activated or not in the ASIC according to the version. Micrologic 6.0X has all protection and is representative for 2.0X, 5.0X
Schneider Electric	Micrologic 7.0X	One input is different between 7.0X than others -7.0 vigi input - x.0 source ground return input (x<7) Both inputs are only for protection

2. Internal power supply construction: The control unit is supplied by 24Vdc.





Description of Test Modes 3.2

16 channels are provided to this EUT:

Channel	Freq. (MHz)						
11	2405	15	2425	19	2445	23	2465
12	2410	16	2430	20	2450	24	2470
13	2415	17	2435	21	2455	25	2475
14	2420	18	2440	22	2460	26	2480

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3.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE		APPLICA	ABLE TO	DESCRIPTION	
MODE	RE≥1G	RE<1G	PLC	APCM	DESCRIPTION
А	V	V	-	√	EUT was positioned on Z-plane
В	V	V	√	-	EUT was positioned on Y-plane

Where

RE≥1G: Radiated Emission above 1GHz &

RE<1G: Radiated Emission below 1GHz

Bandedge Measurement **PLC:** Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

Note:

1. The EUT were positioned on **Z-plane and Y-plane** during testing.

2. "-"means no effect.

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.

EUT CONFIGUURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
A, B	11 to 26	11, 18, 26	O-QPSK

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.

EUT CONFIGUURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
A, B	11 to 26	18	O-QPSK

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.

EUT CONFIGUURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
В	11 to 26	18	O-QPSK

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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.

EUT CONFIGUURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	
А	11 to 26	11, 18, 26	O-QPSK	

Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY	
RE≥1G	20deg. C, 69%RH	24Vdc	Bayu Chen	
RE<1G	20deg. C, 63%RH	24Vdc	Alan Wu	
PLC	16deg. C, 70%RH	C, 70%RH 24Vdc Nick Hsu		
APCM	25deg. C, 60%RH	24Vdc	Match Tsui	

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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.

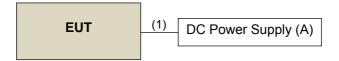
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	DC Power Supply	TOPWARD	6303D	802236	NA	-

Note:

- 1. All power cords of the above support units are non-shielded (1.8m).
- 2. Item A was placed under the test table.

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	Power cable	2	2	N	0	-

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 (15.247)

KDB 558074 D01 DTS Meas Guidance v03r05

ANSI C63.10-2013

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

Note: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

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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.	Date Of Calibration	Due Date Of Calibration
Test Receiver ROHDE & SCHWARZ	ESCS30	100289	Dec. 23, 2015	Dec. 22, 2016
Spectrum Analyzer	FSP40	100040	Jul. 08, 2015	Jul. 07, 2016
ROHDE & SCHWARZ	1 01 40	100269	Apr. 19, 2016	Apr. 18, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-148	Jan. 18, 2016	Jan. 17, 2017
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Jan. 08, 2016	Jan. 07, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Jan. 18, 2016	Jan. 17, 2017
Preamplifier	8449B	3008A01911	Aug. 09, 2015	Aug. 08, 2016
Agilent	04490	3000A01911	Aug. 09, 2016	Aug. 08, 2017
Preamplifier	8447D	2944A10638	Aug. 09, 2015	Aug. 08, 2016
Agilent	044710	23447(10000	Aug. 09, 2016	Aug. 08, 2017
RF signal cable	SUCOFLEX 104	CABLE-CH9-02	Aug. 09, 2015	Aug. 08, 2016
HUBER+SUHNER	00001 LEX 104	(309222 +248780)	Aug. 09, 2016	Aug. 08, 2017
RF signal cable	SUCOFLEX 104	CABLE-CH9-03	Aug. 09, 2015	Aug. 08, 2016
HUBER+SUHNER	00001 LEX 104	(274092)	Aug. 09, 2016	Aug. 08, 2017
RF signal cable	8D-FB	Cable-CH9-01	Aug. 11, 2015	Aug. 10, 2016
Woken		04010 0110 01	Aug. 09, 2016	Aug. 08, 2017
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower &Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
High Speed Peak Power	ML2495A	0824011	Jul. 09, 2015	Jul. 08, 2016
Meter	IVILZ430A	0024011	Aug. 11, 2016	Aug. 10, 2017
Power Sensor	MA2411B	0738171	Jul. 09, 2015	Jul. 08, 2016
. 5461 5611561	IVII VETTID	0700171	Aug. 11, 2016	Aug. 10, 2017

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 HwaYa Chamber 9.
- 3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 4. The FCC Site Registration No. is 215374.
 - 5. The IC Site Registration No. is IC 7450F-9.

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4.1.3 Test Procedures

- a. The EUT was placed on the top of a rotating table 0.8 meters 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 and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

- 1. For emission measurements above 1 GHz, the EUT shall be placed at a height of 1.5 m above the ground at 3 meter chamber room for test.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 3. 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.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor (10 log(1/duty cycle)).
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
- 6. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

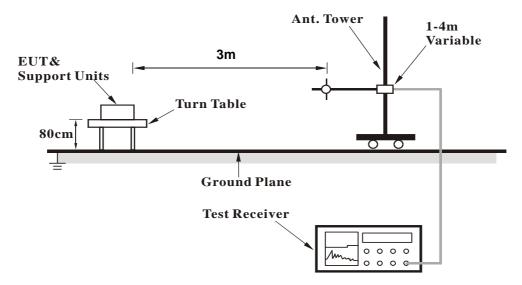
No deviation.

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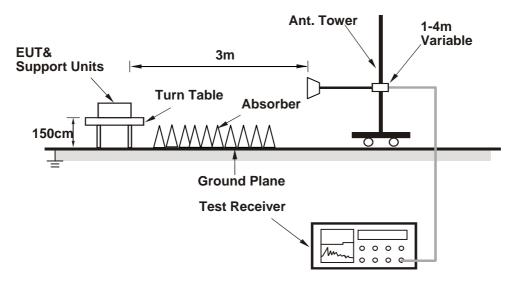


4.1.5 Test Set Up

<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

- a. The EUT placed them on the testing table.
- b. The notebook system ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.



4.1.7 Test Results

Above 1GHz Data

Test Mode A

CHANNEL	TX Channel 11	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	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	2310.00	59.7 PK	74.0	-14.3	1.80 H	65	25.20	34.50
2	2310.00	47.6 AV	54.0	-6.4	1.80 H	65	13.10	34.50
3	*2405.00	85.0 PK			1.80 H	65	50.20	34.80
4	*2405.00	80.7 AV			1.80 H	65	45.90	34.80
5	4810.00	50.4 PK	74.0	-23.6	1.54 H	6	45.80	4.60
6	4810.00	36.8 AV	54.0	-17.2	1.54 H	6	32.20	4.60
		ANTENN	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL AT	Г 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	2310.00	59.5 PK	74.0	-14.5	1.00 V	60	25.00	34.50
2	2310.00	47.6 AV	54.0	-6.4	1.00 V	60	13.10	34.50
3	*2405.00	85.2 PK			1.00 V	60	50.40	34.80
4	*2405.00	80.2 AV			1.00 V	60	45.40	34.80
5	4810.00	50.1 PK	74.0	-23.9	1.00 V	265	45.50	4.60
6	4810.00	36.6 AV	54.0	-17.4	1.00 V	265	32.00	4.60

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)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.



CHANNEL	TX Channel 18	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	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	*2440.00	86.8 PK			1.10 H	35	51.80	35.00		
2	*2440.00	77.9 AV			1.10 H	35	42.90	35.00		
3	4880.00	50.1 PK	74.0	-23.9	1.00 H	310	45.60	4.50		
4	4880.00	36.1 AV	54.0	-17.9	1.00 H	310	31.60	4.50		
		ANTENN	A POLARITY	/ & TEST DI	STANCE: VI	ERTICAL AT	Г 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	*2440.00	87.1 PK			1.35 V	88	52.10	35.00		
2	*2440.00	78.7 AV			1.35 V	88	43.70	35.00		
3	4880.00	49.9 PK	74.0	-24.1	1.54 V	310	45.40	4.50		
4	4880.00	37.0 AV	54.0	-17.0	1.54 V	310	32.50	4.50		

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)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.

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CHANNEL	TX Channel 26	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	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	84.2 PK			1.76 H	227	49.00	35.20	
2	*2480.00	78.6 AV			1.76 H	227	43.40	35.20	
3	2483.50	60.2 PK	74.0	-13.8	1.76 H	227	25.00	35.20	
4	2483.50	48.0 AV	54.0	-6.0	1.76 H	227	12.80	35.20	
5	4960.00	50.2 PK	74.0	-23.8	1.09 H	341	45.40	4.80	
6	4960.00	36.9 AV	54.0	-17.1	1.09 H	341	32.10	4.80	
		ANTENN	A POLARITY	4 & TEST DI	STANCE: V	ERTICAL AT	Г 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	86.3 PK			1.07 V	39	51.10	35.20	
2	*2480.00	79.5 AV			1.07 V	39	44.30	35.20	
3	2483.50	60.5 PK	74.0	-13.5	1.07 V	39	25.30	35.20	
4	2483.50	48.0 AV	54.0	-6.0	1.07 V	39	12.80	35.20	
5	4960.00	49.7 PK	74.0	-24.3	1.39 V	310	44.90	4.80	
6	4960.00	36.7 AV	54.0	-17.3	1.39 V	310	31.90	4.80	

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)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.

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Test Mode B

CHANNEL	TX Channel 11	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	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	2310.00	59.0 PK	74.0	-15.0	1.72 H	51	24.50	34.50			
2	2310.00	47.5 AV	54.0	-6.5	1.72 H	51	13.00	34.50			
3	*2405.00	84.0 PK			1.72 H	51	49.20	34.80			
4	*2405.00	79.6 AV			1.72 H	51	44.80	34.80			
5	4810.00	49.9 PK	74.0	-24.1	1.32 H	26	45.30	4.60			
6	4810.00	37.8 AV	54.0	-16.2	1.32 H	26	33.20	4.60			
		ANTENN	A POLARITY	/ & TEST DI	STANCE: VI	ERTICAL 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	2310.00	59.1 PK	74.0	-14.9	1.91 V	8	24.60	34.50			
2	2310.00	47.6 AV	54.0	-6.4	1.91 V	8	13.10	34.50			
3	*2405.00	84.1 PK			1.91 V	8	49.30	34.80			
4	*2405.00	79.7 AV			1.91 V	8	44.90	34.80			
5	4810.00	50.5 PK	74.0	-23.5	1.44 V	324	45.90	4.60			
6	4810.00	37.3 AV	54.0	-16.7	1.44 V	324	32.70	4.60			

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)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.



CHANNEL	TX Channel 18	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	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	*2440.00	85.7 PK			2.67 H	50	50.70	35.00			
2	*2440.00	81.4 AV			2.67 H	50	46.40	35.00			
3	4880.00	50.1 PK	74.0	-23.9	2.73 H	87	45.60	4.50			
4	4880.00	37.4 AV	54.0	-16.6	2.73 H	87	32.90	4.50			
		ANTENN	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL AT	Г 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	*2440.00	88.9 PK			2.60 V	10	53.90	35.00			
2	*2440.00	80.6 AV			2.60 V	10	45.60	35.00			
3	4880.00	50.3 PK	74.0	-23.7	1.36 V	328	45.80	4.50			
4	4880.00	37.6 AV	54.0	-16.4	1.36 V	328	33.10	4.50			

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)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.

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CHANNEL	TX Channel 26	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	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	87.1 PK			1.00 H	337	51.90	35.20		
2	*2480.00	80.9 AV			1.00 H	337	45.70	35.20		
3	2483.50	59.9 PK	74.0	-14.1	1.00 H	337	24.70	35.20		
4	2483.50	48.1 AV	54.0	-5.9	1.00 H	337	12.90	35.20		
5	4960.00	49.6 PK	74.0	-24.4	1.34 H	0	44.80	4.80		
6	4960.00	36.6 AV	54.0	-17.4	1.34 H	0	31.80	4.80		
		ANTENN	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL AT	Г 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	82.8 PK			2.13 V	87	47.60	35.20		
2	*2480.00	76.4 AV			2.13 V	87	41.20	35.20		
3	2483.50	60.4 PK	74.0	-13.6	2.13 V	87	25.20	35.20		
4	2483.50	48.0 AV	54.0	-6.0	2.13 V	87	12.80	35.20		
5	4960.00	49.9 PK	74.0	-24.1	1.89 V	41	45.10	4.80		
6	4960.00	36.8 AV	54.0	-17.2	1.89 V	41	32.00	4.80		

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)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.

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Below 1GHz worst-case data

Test Mode A

CHANNEL	TX Channel 18	DETECTOR	Oversi Bank (OB)
FREQUENCY RANGE	30MHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	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	35.72	22.7 QP	40.0	-17.3	1.00 H	357	37.60	-14.90		
2	185.13	35.8 QP	43.5	-7.7	1.24 H	180	51.60	-15.80		
3	214.24	31.4 QP	43.5	-12.1	1.00 H	135	47.90	-16.50		
4	264.69	30.0 QP	46.0	-16.0	1.00 H	264	43.90	-13.90		
5	332.60	26.7 QP	46.0	-19.3	1.00 H	257	38.80	-12.10		
6	873.97	32.1 QP	46.0	-13.9	1.00 H	236	34.30	-2.20		
		ANTENN	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL AT	Г 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	31.84	28.9 QP	40.0	-11.1	2.00 V	13	44.30	-15.40		
2	57.07	27.1 QP	40.0	-12.9	1.00 V	6	41.30	-14.20		
3	187.07	33.9 QP	43.5	-9.6	2.00 V	260	49.90	-16.00		
4	214.24	31.2 QP	43.5	-12.3	1.00 V	6	47.70	-16.50		
5	332.60	27.2 QP	46.0	-18.8	1.24 V	57	39.30	-12.10		
6	873.97	31.6 QP	46.0	-14.4	1.00 V	350	33.80	-2.20		

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)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value



Test Mode B

CHANNEL	TX Channel 18	DETECTOR	Ougoi Book (OB)
FREQUENCY RANGE	30MHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	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	31.84	24.4 QP	40.0	-15.6	1.24 H	181	39.80	-15.40			
2	181.25	32.4 QP	43.5	-11.1	1.24 H	182	47.70	-15.30			
3	214.24	29.3 QP	43.5	-14.2	1.50 H	129	45.80	-16.50			
4	264.69	28.7 QP	46.0	-17.3	1.00 H	265	42.60	-13.90			
5	322.90	28.0 QP	46.0	-18.0	1.00 H	59	40.20	-12.20			
6	873.97	34.0 QP	46.0	-12.0	2.00 H	12	36.20	-2.20			
		ANTENN	A POLARITY	/ & TEST DI	STANCE: VI	ERTICAL 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	37.66	22.3 QP	40.0	-17.7	1.24 V	342	37.00	-14.70			
2	57.07	26.4 QP	40.0	-13.6	1.24 V	12	40.60	-14.20			
3	185.13	30.6 QP	43.5	-12.9	1.24 V	240	46.40	-15.80			
4	210.36	29.5 QP	43.5	-14.0	1.00 V	17	46.00	-16.50			
5	332.60	26.3 QP	46.0	-19.7	1.00 V	77	38.40	-12.10			
6	872.03	34.8 QP	46.0	-11.2	1.24 V	336	37.00	-2.20			

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)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Fraguanay (MHz)	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.	Date Of Calibration	Due Date Of Calibration
Test Receiver ROHDE & SCHWARZ	ESCS 30	100288	Apr. 27, 2015	Apr. 26, 2016
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond2-01	Dec. 26, 2015	Dec. 25, 2016
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Jan. 11, 2016	Jan. 10, 2017
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Jul. 21, 2015	Jul. 20, 2016
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	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 test was performed in HwaYa Shielded Room 2.
- 3. The VCCI Site Registration No. is C-2047.

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4.2.3 Test Procedures

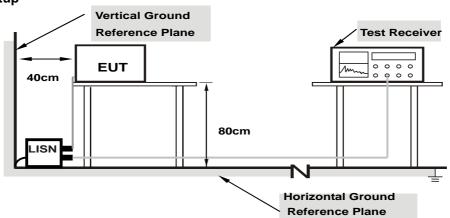
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. 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 Conditions

Same as 4.1.6.

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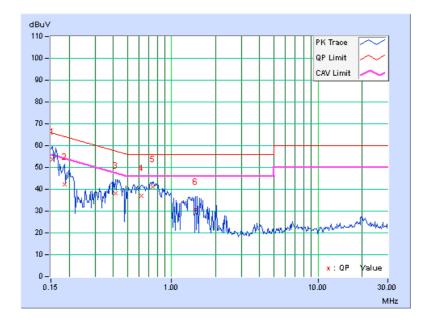
4.2.7 Test Results

Phase	Line (L)	LIPIECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
-------	----------	--------------------	-----------------------------------

	Freq. Corr.		Reading Value		Emission Level		Limit		Margin	
No	rieq.	Factor	Factor [dB (uV)		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	10.06	43.54	9.07	53.60	19.13	65.79	55.79	-12.19	-36.66
2	0.18516	10.07	32.28	5.63	42.35	15.70	64.25	54.25	-21.90	-38.55
3	0.41563	10.13	28.14	2.94	38.27	13.07	57.54	47.54	-19.26	-34.46
4	0.62266	10.14	27.03	4.18	37.17	14.32	56.00	46.00	-18.83	-31.68
5	0.74766	10.14	30.89	3.51	41.03	13.65	56.00	46.00	-14.97	-32.35
6	1.46094	10.17	20.65	2.27	30.82	12.44	56.00	46.00	-25.18	-33.56

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.



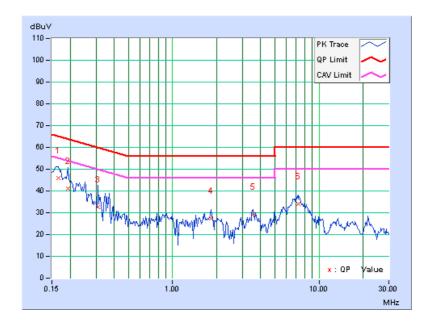


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)

	Freq. Corr.		Reading Value		Emission Level		Limit		Margin	
No	rieq.	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16562	0.21	45.75	33.48	45.96	33.69	65.18	55.18	-19.22	-21.49
2	0.19297	0.22	41.04	25.71	41.26	25.93	63.91	53.91	-22.65	-27.98
3	0.31016	0.24	32.26	13.50	32.50	13.74	59.97	49.97	-27.47	-36.23
4	1.84375	0.39	27.14	19.95	27.53	20.34	56.00	46.00	-28.47	-25.66
5	3.55078	0.45	28.81	19.23	29.26	19.68	56.00	46.00	-26.74	-26.32
6	7.27344	0.52	33.61	27.74	34.13	28.26	60.00	50.00	-25.87	-21.74

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.





4.3 6dB Bandwidth Measurement

4.3.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

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. Set resolution bandwidth (RBW) = 100kHz
- b. Set the video bandwidth (VBW) \geq 3 x RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.3.5 Deviation fromTest Standard

No deviation.

4.3.6 EUT Operating Conditions

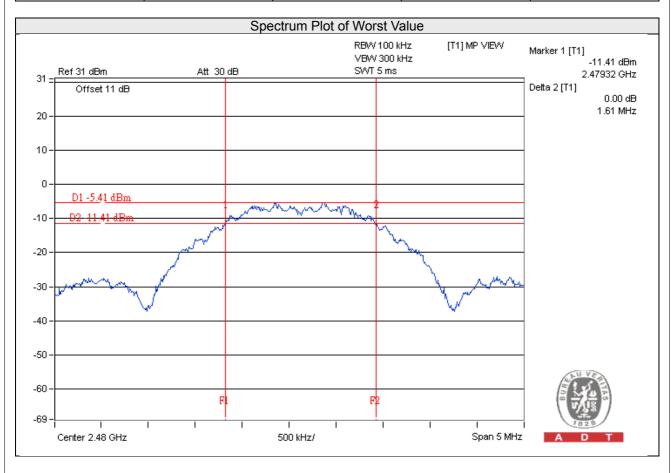
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

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4.3.7 Test Result

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
11	2405	1.59	0.5	Pass
18	2440	1.59	0.5	Pass
26	2480	1.61	0.5	Pass





4.4 Conducted Output Power Measurement

4.4.1 Limits of Conducted Output Power Measurement

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

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 peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Conditions

Same as Item 4.3.6.

4.4.7 Test Results

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass/Fail
11	2405	1.514	1.80	30	Pass
18	2440	1.837	2.64	30	Pass
26	2480	0.9441	-0.25	30	Pass

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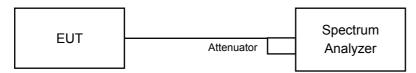


4.5 **Power Spectral Density Measurement**

Limits of Power Spectral Density Measurement 4.5.1

The Maximum of Power Spectral Density Measurement is 8dBm.

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**

- Set analyzer center frequency to DTS channel center frequency. a.
- b. Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$. C.
- d. Set the VBW \geq 3 × RBW.
- e. Detector = peak.
- f. Sweep time = auto couple.
- Trace mode = max hold. g.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level within the RBW.

4.5.5 **Deviation from Test Standard**

No deviation.

EUT Operating Condition 4.5.6

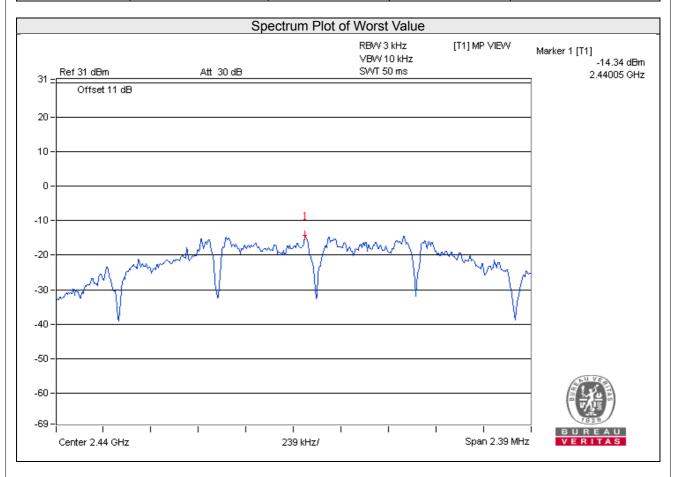
Same as Item 4.3.6

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4.5.7 Test Results

Channel	Freq. (MHz)	PSD (dBm)	Limit (dBm)	Pass /Fail
11	2405	-15.07	8	Pass
18	2440	-14.34	8	Pass
26	2480	-17.82	8	Pass



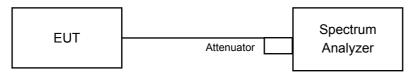


4.6 Conducted Out of Band Emission Measurement

4.6.1 Limits of Conducted Out of Band Emission Measurement

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

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. Set the RBW = 100 kHz.
- b. Set the VBW ≥ 300 kHz.
- c. Detector = peak.
- d. Sweep time = auto couple.
- e. Trace mode = max hold.
- f. Allow trace to fully stabilize.
- g. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOBE

- a. Set RBW = 100 kHz.
- b. Set VBW ≥ 300 kHz.
- c. Detector = peak.
- d. Sweep = auto couple.
- e. Trace Mode = max hold.
- f. Allow trace to fully stabilize.
- g. Use the peak marker function to determine the maximum amplitude level.

4.6.5 Deviation from Test Standard

No deviation.

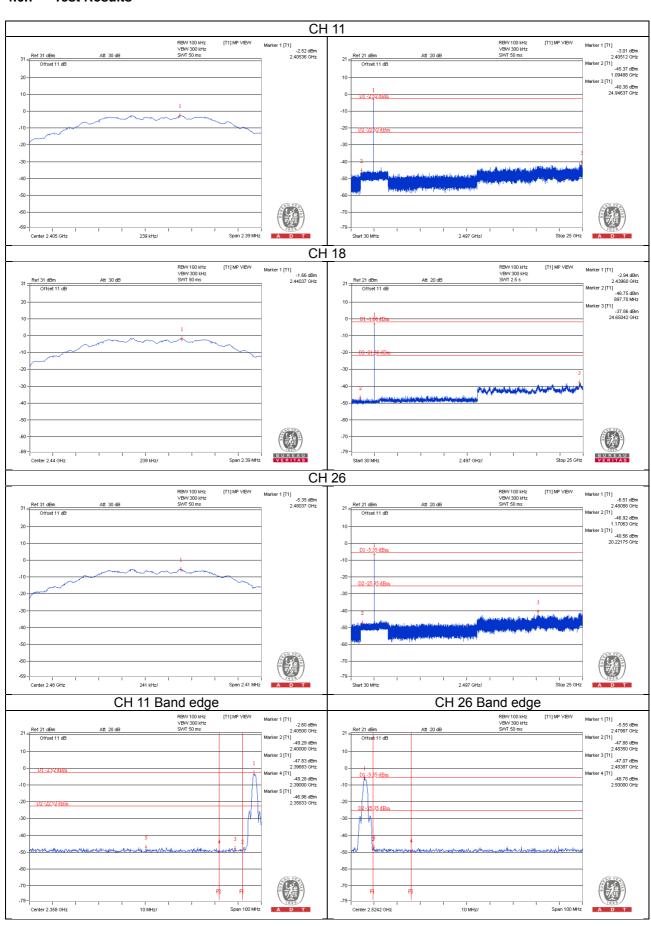
4.6.6 EUT Operating Condition

Same as Item 4.3.6

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4.6.7 Test Results





5 Pictures of Test Arrangements
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:

Linko EMC/RF Lab

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-2-26052180 Fax: 886-2-26051924 Tel: 886-3-6668565 Fax: 886-3-6668323

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

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