FCC TEST REPORT

For

Corewise Smart Technology Inc

Mobile Computer

Test Model: CFON640

Prepared for : Corewise Smart Technology Inc

Address : 5F, Bldg1, Int'l Service Outsoutcing Mansion, #301,

Hanzhongmen Street, NanJing, China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.

Address : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue,

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Date of receipt of test sample : June 01, 2015

Number of tested samples

Serial number : XH201505030000

Date of Test : June 28, 2015 - June 30, 2015

Date of Report : July 10, 2015

FCC TEST REPORT FCC CFR 47 PART 15 C(15,247): 2014

Report Reference No.: LCS1506010095E

Date of Issue: July 10, 2015

Testing Laboratory Name......: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address: 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue,

Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure......: Full application of Harmonised standards

Partial application of Harmonised standards \square

Other standard testing method \Box

Applicant's Name.....: Corewise Smart Technology Inc

Address: 5F, Bldg1, Int'l Service Outsoutcing Mansion, #301,

Hanzhongmen Street, NanJing, China

Test Specification

Standard: FCC CFR 47 PART 15 C(15.247): 2014 / ANSI C63.10: 2013

Test Report Form No.....: LCSEMC-1.0

TRF Originator: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF.....: Dated 2011-03

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Test Item Description.: Mobile Computer

Trade Mark: Corewise

Test Model: : CFON640

Ratings: DC 3.7V by li-ion polymer battery(8000mAh)

Recharged by DC 5V/2A AC/DC ADAPTER

Result: Positive

Compiled by:

Supervised by:

Approved by:

Leo Lee/ File administrators

Glin Lu/ Technique principal

Gavin Liang/ Manager

FCC -- TEST REPORT

Test Report No.: LCS1506010095E

July 10, 2015 Date of issue

Test Model..... : CFON640 EUT..... : Mobile Computer Applicant.....: : Corewise Smart Technology Inc Address..... : 5F, Bldg1, Int'l Service Outsoutcing Mansion, #301, Hanzhongmen Street, NanJing, China Telephone..... Fax..... : / Manufacturer.....: : Corewise Smart Technology Inc Address..... : 5F, Bldg1, Int'l Service Outsoutcing Mansion, #301, Hanzhongmen Street, NanJing, China Telephone..... : / : / Fax.... Factory.....: : Corewise Smart Technology Inc Address..... : 5F, Bldg1, Int'l Service Outsoutcing Mansion, #301, Hanzhongmen Street, NanJing, China Telephone..... Fax..... : /

Test Result	Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Mobile Computer

Model Number : CFON640, CFON640A, CFON640B, CFON640S,

CFON640M, CFON640F, CFON640P, CFON640X,

CFON640U, CFON640Q

Model Declaration : PCB board, structure and internal of the related model(s) are

the same, So no additional models were tested.

Test Model : CFON640

Hardware Version : M806-07WX V1100601

Software Version : M806_P1_00WX_AU48_R_0_XX_CFON640_150321_14

Power Supply : DC 3.7V by li-ion polymer battery(8000mAh)

Recharged by DC 5V/2A AC/DC ADAPTER

EUT Support : GSM/GPRS/EGPRS/WCDMA/HSUPA/HSDPA/WIFI/

Radios Application Bluetooth/RFID/GPS(RX)

WIFI Technology :

Operating Frequency : 2412.00-2462.00MHz

Channel Spacing : 5MHz

Channel Number : 11 Channels for 20MHz Bandwidth

(The EUT does not support 802.11n HT40)

Modulation Technology: 802.11b: DSSS(CCK,DQPSK,DBPSK)

802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK)

802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)

Data Rates : 802.11b: 1-11Mbps

802.11g: 6-54Mbps

802.11n: MCS0-MCS7

Antenna Description : Chip Antenna, 2.0dBi(Max.)

1.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN TDS ELECTRONIC CO.,LTD	AC/DC ADAPTER	TSHA09U-0502 00		VOC

1.3. External I/O

I/O Port Description	Quantity	Cable
Charging Port	1	1.2m, unshielded
USB Port	1	1.5m, unshielded
Headphone Jack	1	N/A

1.4. Description of Test Facility

CNAS Registration Number. is L4595.

FCC Registration Number. is 899208.

Industry Canada Registration Number. is 9642A-1.

VCCI Registration Number. is C-4260 and R-3804.

ESMD Registration Number. is ARCB0108.

UL Registration Number. is 100571-492.

TUV SUD Registration Number. is SCN1081.

TUV RH Registration Number. is UA 50296516-001

1.5. Statement of The Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
		9KHz~30MHz	3.10dB	(1)
		30MHz~200MHz	2.96dB	(1)
Radiation Uncertainty		200MHz~1000MHz	3.10dB	(1)
		1GHz~26.5GHz	3.80dB	(1)
		26.5GHz~40GHz	3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	1.63dB	(1)
Power disturbance	••	30MHz~300MHz	1.60dB	(1)

^{(1).} This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.7. Description Of Test Modes

The EUT has been tested under operating condition.

The EUT was set to transmit at 100% duty cycle.

For pre-testing, when performed with AC/DC ADAPTER, the input Voltage/Frequency AC 120V/60Hz and AC 240V/60Hz were used. Only recorded the worst case in this report.

Worst-case mode and channel used for 150kHz-30 MHz power line conducted emissions was the mode and channel with the highest output power, that was determined to be 802.11b mode(High Channel).

Worst-case mode and channel used for 9kHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be 802.11b mode(High Channel).

Worst-Case data rates were utilized from preliminary testing of the Chipset, worst-case data rates used during the testing are as follows:

802.11b Mode: 1 Mbps, DSSS. 802.11g Mode: 6 Mbps, OFDM. 802.11n Mode HT20:.MCS0, OFDM.

***Note: The EUT does not support 802.11n HT40

Channel List & Frequency

802.11b/g/n(HT20):

002.110/8/11(111=0):			
Frequency Band	Channel No.	Frequency(MHz)	Channel No.	Frequency(MHz)
2412~2462MHz 3	2412	7	2442	
	2	2417	8	2447
	3	2422	9	2452
2412~2402NITIZ	4	2427	10	2457
	5	2432	11	2462
	6	2437		

^{***}Note: Using a temporary antenna connector for the EUT when the conducted measurements are performed.

2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10: 2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd..

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to FCC's request, Test Procedure KDB558074 D01 DTS Meas Guidance v03r02 is required to be used for this kind of FCC 15.247 digital modulation device.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

2.3.1 Conducted Emissions

According to the requirements in Section 6.2 of ANSI C63.10: 2013, AC power-line conducted emissions shall be measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table and the turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10: 2013

3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a continuous transmit condition.

3.2. EUT Exercise Software

N/A

3.3. Special Accessories

N/A

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.

4. SUMMARY OF TEST RESULTS

Applied Standard: FCC Part 15 Subpart C			
FCC Rules	Result		
§15.247(b)(3)	Maximum Conducted Output Power	Compliant	
§15.247(e)	Power Spectral Density	Compliant	
§15.247(a)(2)	6dB Bandwidth	Compliant	
§15.209, §15.247(d)	Radiated and Conducted Spurious Emissions	Compliant	
§15.205	Emissions at Restricted Band	Compliant	
§15.207(a)	Line Conducted Emissions	Compliant	
§15.203	Antenna Requirements	Compliant	

5. TEST RESULT

5.1. Maximum Conducted Output Power Measurement

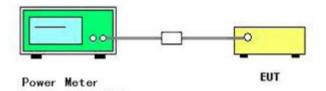
5.1.1. Standard Applicable

According to §15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850MHz bands: 1 Watt.

5.1.2. Test Procedures

The transmitter output (antenna port) was connected to the power meter.

5.1.3. Test Setup Layout



5.1.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.1.5. Test Result of Maximum Conducted Output Power

Temperature	25°C	Humidity	60%
Test Engineer	Leo	Configurations	802.11b/g/n

802.11b

Channel	Frequency (MHz)	Conducted Power (dBm, Average)	Max. Limit (dBm)	Result
1	2412	22.57	30	Complies
6	2437	22.33	30	Complies
11	2462	22.82	30	Complies

802.11g

Channel	Frequency (MHz)	Conducted Power (dBm, Average)	Max. Limit (dBm)	Result
1	2412	22.48	30	Complies
6	2437	22.59	30	Complies
11	2462	22.44	30	Complies

802.11n HT20

Channel	Frequency (MHz)	Conducted Power (dBm, Average)	Max. Limit (dBm)	Result
1	2412	20.98	30	Complies
6	2437	20.98	30	Complies
11	2462	20.97	30	Complies

5.2. Power Spectral Density Measurement

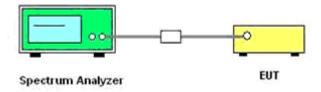
5.2.1. Standard Applicable

According to §15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.2.2. Test Procedures

- 1) The transmitter was connected directly to a Spectrum Analyzer through a directional couple.
- 2) The power was monitored at the coupler port with a Spectrum Analyzer. The power level was set to the maximum level.
- 3) Set the RBW = 3 kHz.
- 4) Set the VBW \geq 3*RBW
- 5) Set the span to 1.5 times the DTS channel bandwidth.
- 6) Detector = peak.
- 7) Sweep time = auto couple.
- 8) Trace mode = max hold.
- 9) Allow trace to fully stabilize.
- 10) Use the peak marker function to determine the maximum power level in any 3 kHz band segment within the fundamental EBW.

5.2.3. Test Setup Layout



5.2.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.2.5. Test Result of Power Spectral Density

Temperature	25°C	Humidity	60%
Test Engineer	Leo	Configurations	802.11b/g/n

802.11b

Channel	Frequency (MHz)	Power Density (dBm/3KHz)	Max. Limit (dBm/3KHz)	Result
1	2412	-3.666	8	Complies
6	2437	-3.540	8	Complies
11	2462	-3.677	8	Complies

802.11g

Channel	Frequency (MHz)	Power Density (dBm/3KHz)	Max. Limit (dBm/3KHz)	Result
1	2412	-8.556	8	Complies
6	2437	-8.435	8	Complies
11	2462	-8.581	8	Complies

802.11n HT20

Channel	Frequency (MHz)	Power Density (dBm/3KHz)	Max. Limit (dBm/3KHz)	Result
1	2412	-9.608	8	Complies
6	2437	-9.070	8	Complies
11	2462	-9.308	8	Complies

Note: The measured power density (dBm) has the offset with cable loss already.

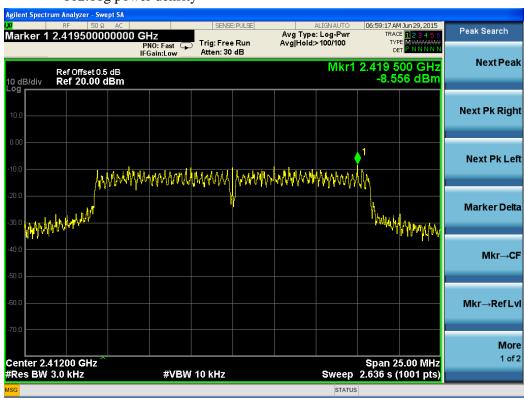
802.11b power density

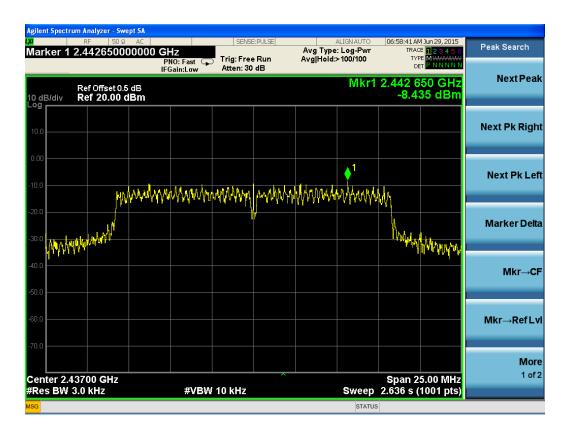


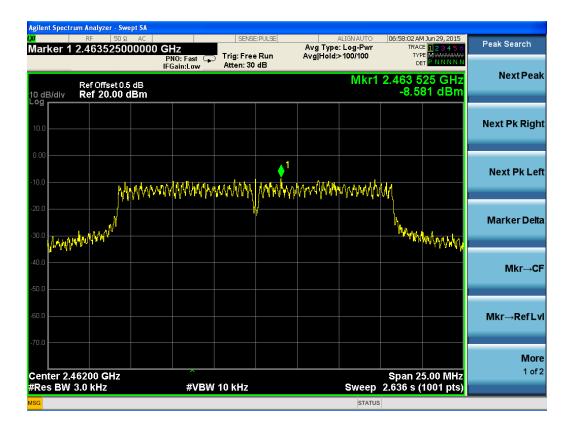




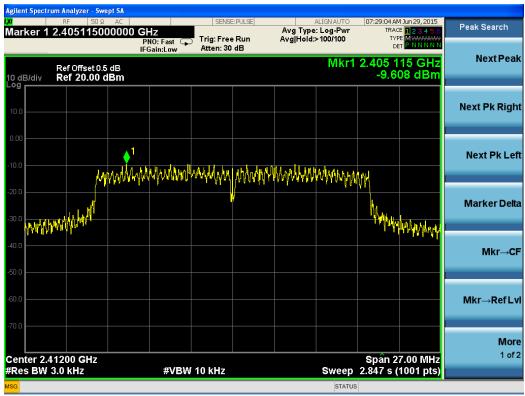
802.11g power density

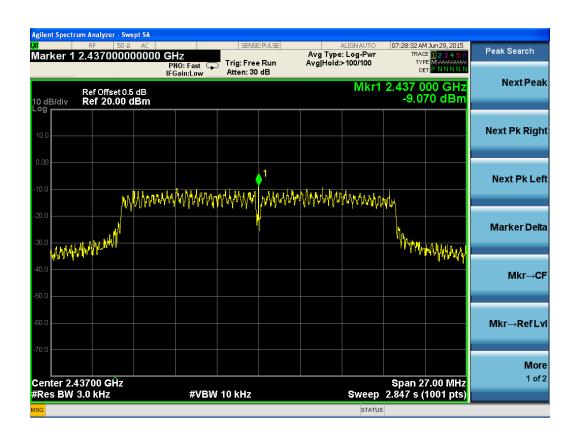


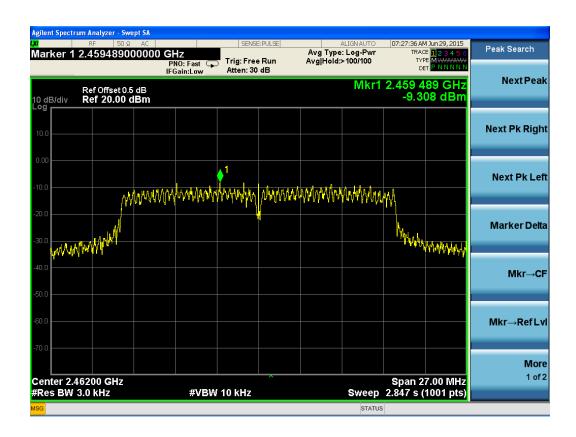




802.11n HT20 power density







5.3. 6 dB Spectrum Bandwidth Measurement

5.3.1. Standard Applicable

According to §15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.3.2. Instruments Setting

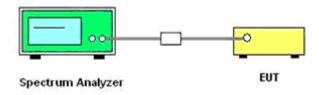
The following table is the setting of the Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> RBW
Detector	Peak
Trace	Max Hold
Sweep Time	100ms

5.3.3. Test Procedures

- 1) The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- 2) The resolution bandwidth and the video bandwidth were set according to KDB558074 D01 DTS Meas. Guidance v03r02.
- 3) Measured the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.
- 4) For 20dB Bandwidth measurement, RBW is set in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW. Measured the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20dB relative to the maximum level measured in the fundamental emission.

5.3.4. Test Setup Layout



5.3.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.3.6. Test Result of Spectrum Bandwidth

Temperature	25°C	Humidity	60%
Test Engineer	Leo	Configurations	802.11b/g/n

802.11b

Channel	Frequency	6dB Bandwidth (MHz)	Min. Limit (kHz)	Result
1	2412	10.10	500	Complies
6	2437	10.10	500	Complies
11	2462	10.10	500	Complies

802.11g

Channel	Frequency	6dB Bandwidth (MHz)	Min. Limit (kHz)	Result
1	2412	16.53	500	Complies
6	2437	16.52	500	Complies
11	2462	16.51	500	Complies

802.11n HT20

Channel	Frequency	6dB Bandwidth (MHz)	Min. Limit (kHz)	Result
1	2412	17.77	500	Complies
6	2437	17.74	500	Complies
11	2462	17.79	500	Complies

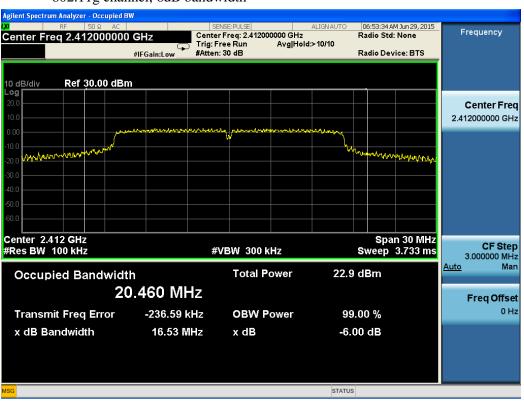
802.11b channel, 6dB bandwidth







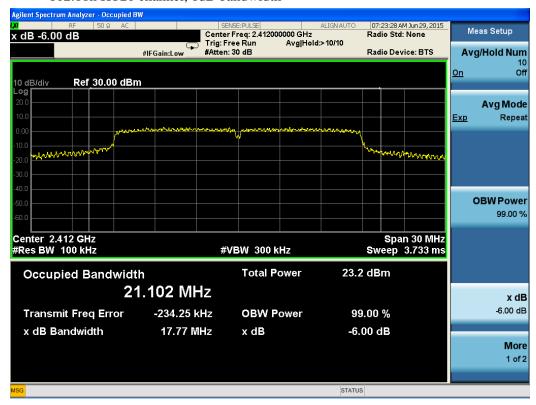
802.11g channel, 6dB bandwidth







802.11n HT20 channel, 6dB bandwidth







802.11b

Channel	Frequency	20dB Bandwidth (MHz)	Limit
1	2412	16.28	
6	2437	16.41	Non-specified
11	2462	16.78	

802.11g

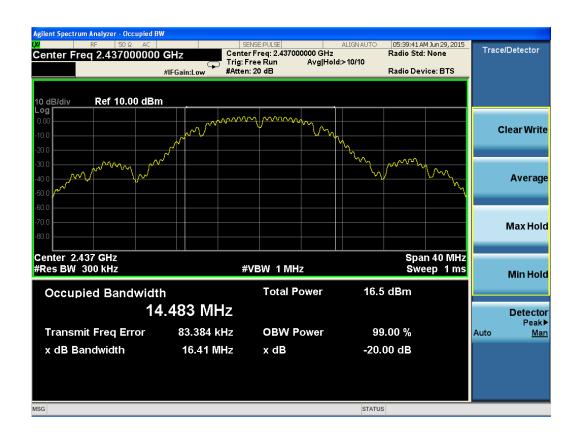
Channel	Frequency	20dB Bandwidth (MHz)	Limit
1	2412	19.20	
6	2437	19.02	Non-specified
11	2462	19.05	

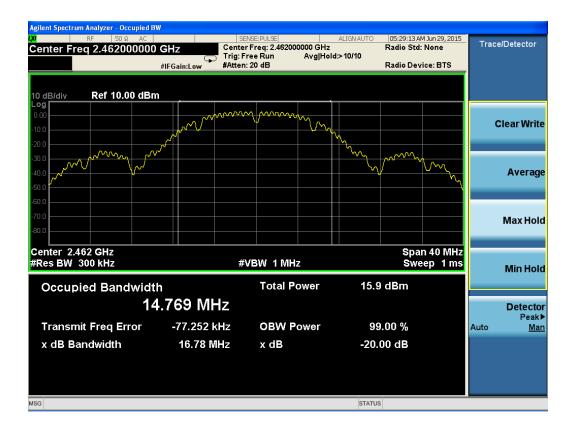
802.11n HT20

Channel	Frequency	20dB Bandwidth (MHz)	Limit
1	2412	20.23	
6	2437	20.72	Non-specified
11	2462	21.20	

802.11b channel, 20dB bandwidth



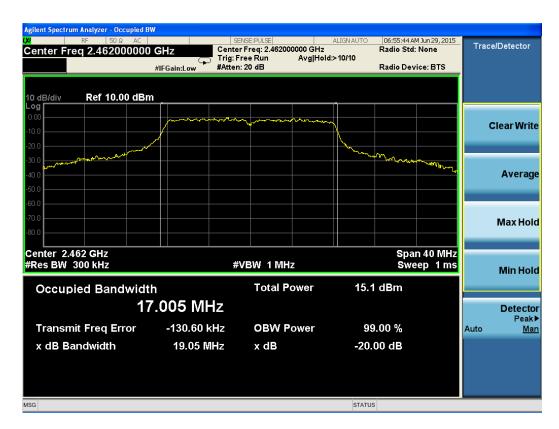




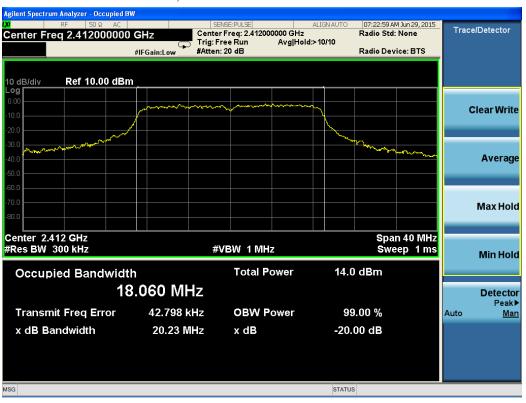
802.11g channel, 20dB bandwidth

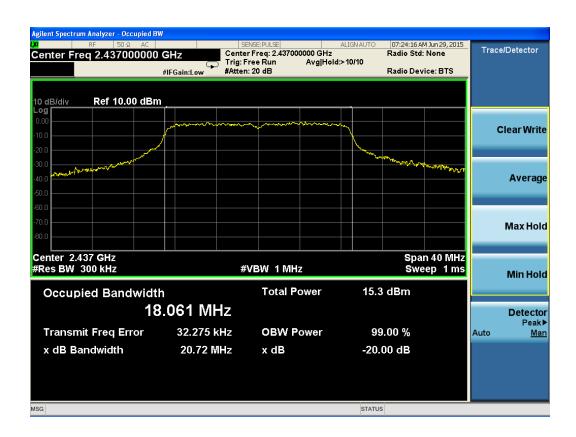


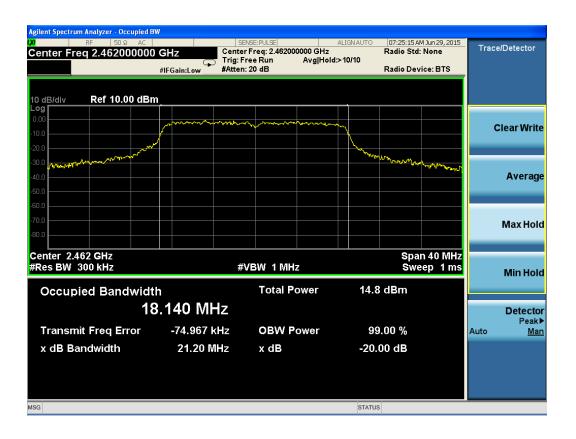




802.11n HT20 channel, 20dB bandwidth







5.4. Radiated Emissions Measurement

5.4.1. Standard Applicable

According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

5.4.2. Instruments Setting

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

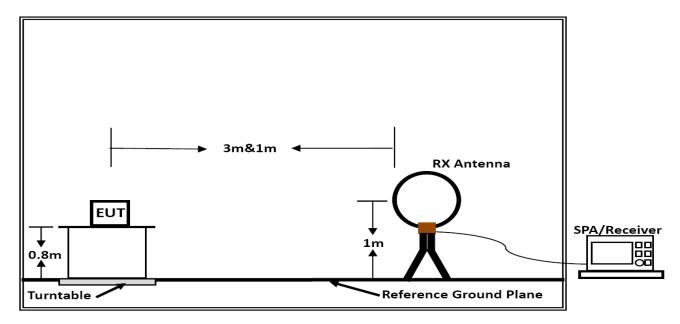
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

5.4.3. Test Procedures

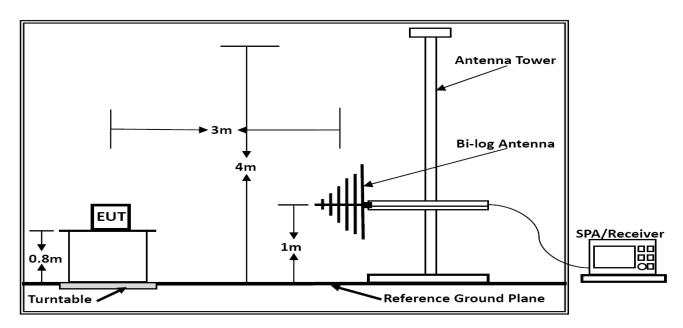
- 1) Configure the EUT according to ANSI C63.10: 2013. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2) Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3) The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.

- 4) For each suspected emissions, the antenna tower was scan (from 1 m to 4 m) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading
- 5) Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6) For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7) When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 8) If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9) For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emission sat the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. The emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10) In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

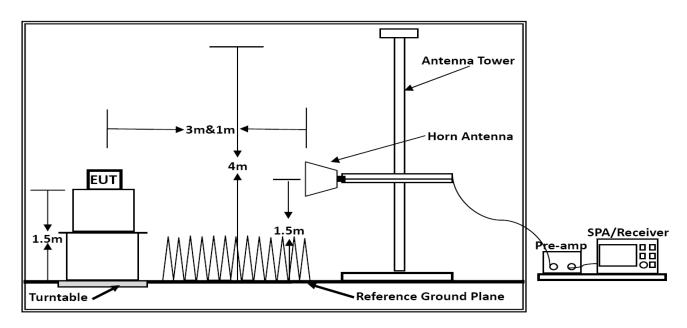
5.4.4. Test Setup Layout



Below 30MHz



Below 1GHz



Above 1GHz

Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1.5m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1.5m]) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

5.4.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.4.6. Results of Radiated Emissions (9kHz~30MHz)

Temperature	25°C	Humidity	60%
Test Engineer	Leo	Configurations	802.11b/g/n

Freq.	Level	Over Limit	Over Limit	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
-	-	-	-	See Note

Note:

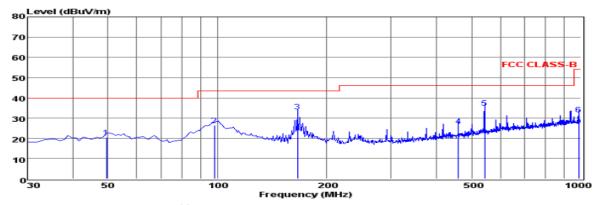
The radiated emissions from 9kHz to 30MHz are at least 20dB below the official limit and no need to report.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

5.4.7. Results of Radiated Emissions (30MHz~1GHz)

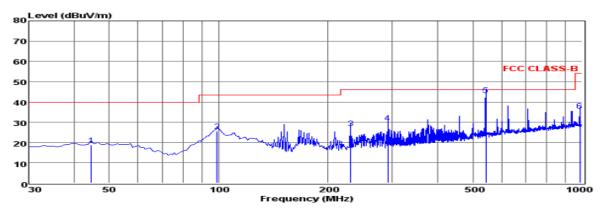
Temperature	25°C	Humidity	60%
Test Engineer	Leo	Configurations	802.11b (High Channel)



Env./Ins: 24℃/56% Mobile Computer CFON640 EUT: M/N: 120V/60Hz Power Rating: TX-High Channel (802.11b) Test Mode: Operator: Leo Memo: VERTICAL pol:

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark	
	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dВ		
1	49.40	6.81	0.54	13.29	20.64	40.00	-19.36	QP	
2	97.90	12.80	0.61	13.03	26.44	40.00	-13.56	QP	
3	165.80	23.71	0.77	8.84	33.32	40.00	-6.68	QP	
4	459.71	9.21	1.36	15.59	26.16	47.00	-20.84	QP	
5	543.13	16.41	1.44	17.39	35.24	47.00	-11.76	QP	
6	984.48	8.44	1.86	21.64	31.94	47.00	-15.06	QP	
									_

Note: 1. All readings are Quasi-peak values.
2. Measured= Reading + Antenna Factor + Cable Loss
3. The emission that ate 20db blow the offficial limit are not reported



Env./Ins: EUT:

24℃/56% Mobile Computer CFON640

M/N: Power Rating:

AC 120V/60Hz TX-High Channel (802.11b) Test Mode:

Operator:

Memo:

HORIZONTAL pol:

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dВ	
1	44.55	4.83	0.41	13.55	18.79	40.00	-21.21	QP
2	98.87	11.93	0.61	13.09	25.63	43.50	-17.87	QP
3	230.79	14.49	0.98	11.68	27.15	46.00	-18.85	QP
4	291.90	15.74	1.01	12.90	29.65	46.00	-16.35	QP
5	543.13	24.55	1.44	17.39	43.38	46.00	-2.62	QP
6	984.48	12.10	1.86	21.64	35.60	54.00	-18.40	QP

- Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that ate 20db blow the offficial limit are not reported

***Note:

Pre-scan all mode and recorded the worst case results in this report (802.11b (High Channel)). Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.

 $Corrected\ Reading:\ Antenna\ Factor + Cable\ Loss + Read\ Level - Preamp\ Factor = Level.$

5.4.8. Results for Radiated Emissions (Above 1GHz)

Note: Only recorded the worst test result.

802.11b

Channel 1

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.13	47.56	33.06	35.04	3.94	49.52	74	-24.48	Peak	Horizontal
4824.15	38.41	33.06	35.04	3.94	40.37	54	-13.63	Average	Horizontal
4824.13	49.18	33.06	35.04	3.94	51.14	74	-22.86	Peak	Vertical
4824.15	39.52	33.06	35.04	3.94	41.48	54	-12.52	Average	Vertical

Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.17	47.18	33.16	35.15	3.96	49.15	74	-24.85	Peak	Horizontal
4874.20	37.46	33.16	35.15	3.96	39.43	54	-14.57	Average	Horizontal
4874.17	48.73	33.16	35.15	3.96	50.70	74	-23.30	Peak	Vertical
4874.20	39.05	33.16	35.15	3.96	41.02	54	-12.98	Average	Vertical

Channel 11

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.21	48.66	33.26	35.14	3.98	50.76	74	-23.24	Peak	Horizontal
4924.23	37.15	33.26	35.14	3.98	39.25	54	-14.75	Average	Horizontal
4924.21	50.25	33.26	35.14	3.98	52.35	74	-21.65	Peak	Vertical
4924.23	40.61	33.26	35.14	3.98	42.71	54	-11.29	Average	Vertical

802.11g

Channel 1

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.15	49.21	33.06	35.04	3.94	51.17	74	-22.83	Peak	Horizontal
4824.17	39.57	33.06	35.04	3.94	41.53	54	-12.47	Average	Horizontal
4824.15	50.64	33.06	35.04	3.94	52.60	74	-21.40	Peak	Vertical
4824.17	40.89	33.06	35.04	3.94	42.85	54	-11.15	Average	Vertical

Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.08	50.14	33.16	35.15	3.96	52.11	74	-21.89	Peak	Horizontal
4874.10	40.63	33.16	35.15	3.96	42.60	54	-11.40	Average	Horizontal
4874.08	51.69	33.16	35.15	3.96	53.66	74	-20.34	Peak	Vertical
4874.10	41.87	33.16	35.15	3.96	43.84	54	-10.16	Average	Vertical

Channel 11

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.25	48.94	33.26	35.14	3.98	51.04	74	-22.96	Peak	Horizontal
4924.27	39.47	33.26	35.14	3.98	41.57	54	-12.43	Average	Horizontal
4924.25	50.36	33.26	35.14	3.98	52.46	74	-21.54	Peak	Vertical
4924.27	40.81	33.26	35.14	3.98	42.91	54	-11.09	Average	Vertical

802.11n HT20

Channel 1

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.11	50.73	33.06	35.04	3.94	52.69	74	-21.31	Peak	Horizontal
4824.13	41.05	33.06	35.04	3.94	43.01	54	-10.99	Average	Horizontal
4824.11	51.69	33.06	35.04	3.94	53.65	74	-20.35	Peak	Vertical
4824.13	42.17	33.06	35.04	3.94	44.13	54	-9.87	Average	Vertical

Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.23	49.58	33.16	35.15	3.96	51.55	74	-22.45	Peak	Horizontal
4874.25	40.11	33.16	35.15	3.96	42.08	54	-11.92	Average	Horizontal
4874.23	50.82	33.16	35.15	3.96	52.79	74	-21.21	Peak	Vertical
4874.25	41.37	33.16	35.15	3.96	43.34	54	-10.66	Average	Vertical

Channel 11

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.31	47.52	33.26	35.14	3.98	49.62	74	-24.38	Peak	Horizontal
4924.33	38.21	33.26	35.14	3.98	40.31	54	-13.69	Average	Horizontal
4924.31	51.54	33.26	35.14	3.98	53.64	74	-20.36	Peak	Vertical
4924.33	41.78	33.26	35.14	3.98	43.88	54	-10.12	Average	Vertical

Notes:

- 1. Measuring frequencies from 9k~10th harmonic or 26.5GHz (which is less), No emission found between lowest internal used/generated frequency to 30MHz.
- 2. Radiated emissions measured in frequency range from 30MHz~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.
- 3. The radiated emissions from 18GHz to 25GHz are at least 20dB below the official limit and no need to report.

5.4.9. Results of Band Edges Test (Radiated)

Note: Only recorded the worst test result.

802.11b

Tx-2412

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
2377.14	45.29	32.89	35.16	3.51	46.53	74	-27.47	Peak	Horizontal
2377.16	37.11	32.90	35.16	3.51	38.36	54	-15.64	Average	Horizontal
2390.00	48.48	32.92	35.16	3.54	49.78	74	-24.22	Peak	Horizontal
2389.97	37.19	32.92	35.16	3.54	38.49	54	-15.51	Average	Horizontal
2400.00	57.69	32.92	35.16	3.54	58.99	74	-15.01	Peak	Horizontal
2399.97	47.61	32.92	35.16	3.54	48.91	54	-5.09	Average	Horizontal
2377.14	47.09	32.89	35.16	3.51	48.33	74	-25.67	Peak	Vertical
2377.16	36.14	32.90	35.16	3.51	37.39	54	-16.61	Average	Vertical
2390.00	47.51	32.92	35.16	3.54	48.81	74	-25.19	Peak	Vertical
2389.97	37.44	32.92	35.16	3.54	38.74	54	-15.26	Average	Vertical
2400.00	59.01	32.92	35.16	3.54	60.31	74	-13.69	Peak	Vertical
2399.97	48.48	32.92	35.16	3.54	49.78	54	-4.22	Average	Vertical

Tx-2462

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
2483.50	44.29	33.06	35.18	3.6	45.77	74	-28.23	Peak	Horizontal
2483.53	33.96	33.08	35.18	3.6	35.46	54	-18.54	Average	Horizontal
2486.67	48.99	33.08	35.18	3.62	50.51	74	-23.49	Peak	Horizontal
2486.69	38.00	33.08	35.18	3.62	39.52	54	-14.48	Average	Horizontal
2483.50	43.63	33.06	35.18	3.6	45.11	74	-28.89	Peak	Vertical
2483.53	33.52	33.08	35.18	3.6	35.02	54	-18.98	Average	Vertical
2486.67	49.65	33.08	35.18	3.62	51.17	74	-22.83	Peak	Vertical
2486.69	39.05	33.08	35.18	3.62	40.57	54	-13.43	Average	Vertical

802.11g

Tx-2412

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
2375.64	44.24	32.89	35.16	3.51	45.48	74	-28.52	Peak	Horizontal
2375.67	36.78	32.90	35.16	3.51	38.03	54	-15.97	Average	Horizontal
2390.00	49.25	32.92	35.16	3.54	50.55	74	-23.45	Peak	Horizontal
2389.97	34.77	32.92	35.16	3.54	36.07	54	-17.93	Average	Horizontal
2400.00	57.62	32.92	35.16	3.54	58.92	74	-15.08	Peak	Horizontal
2399.97	47.75	32.92	35.16	3.54	49.05	54	-4.95	Average	Horizontal
2375.64	45.55	32.89	35.16	3.51	46.79	74	-27.21	Peak	Vertical
2375.67	35.04	32.90	35.16	3.51	36.29	54	-17.71	Average	Vertical
2390.00	47.57	32.92	35.16	3.54	48.87	74	-25.13	Peak	Vertical
2389.97	38.00	32.92	35.16	3.54	39.30	54	-14.70	Average	Vertical
2400.00	58.26	32.92	35.16	3.54	59.56	74	-14.44	Peak	Vertical
2399.97	48.58	32.92	35.16	3.54	49.88	54	-4.12	Average	Vertical

Tx-2462

	17-2407									
Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.	
2483.50	46.61	33.06	35.18	3.6	48.09	74	-25.91	Peak	Horizontal	
2483.51	35.66	33.08	35.18	3.6	37.16	54	-16.84	Average	Horizontal	
2488.15	51.65	33.08	35.18	3.62	53.17	74	-20.83	Peak	Horizontal	
2488.17	38.67	33.08	35.18	3.62	40.19	54	-13.81	Average	Horizontal	
2483.50	45.80	33.06	35.18	3.6	47.28	74	-26.72	Peak	Vertical	
2483.51	34.47	33.08	35.18	3.6	35.97	54	-18.03	Average	Vertical	
2488.15	52.07	33.08	35.18	3.62	53.59	74	-20.41	Peak	Vertical	
2488.17	41.38	33.08	35.18	3.62	42.90	54	-11.10	Average	Vertical	

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Tx-2412

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
2373.83	45.34	32.89	35.16	3.51	46.58	74	-27.42	Peak	Horizontal
2373.85	35.86	32.90	35.16	3.51	37.11	54	-16.89	Average	Horizontal
2390.00	47.63	32.92	35.16	3.54	48.93	74	-25.07	Peak	Horizontal
2389.97	36.32	32.92	35.16	3.54	37.62	54	-16.38	Average	Horizontal
2400.00	56.03	32.92	35.16	3.54	57.33	74	-16.67	Peak	Horizontal
2399.97	46.61	32.92	35.16	3.54	47.91	54	-6.09	Average	Horizontal
2373.83	42.84	32.89	35.16	3.51	44.08	74	-29.92	Peak	Vertical
2373.85	36.19	32.90	35.16	3.51	37.44	54	-16.56	Average	Vertical
2390.00	47.45	32.92	35.16	3.54	48.75	74	-25.25	Peak	Vertical
2389.97	36.84	32.92	35.16	3.54	38.14	54	-15.86	Average	Vertical
2400.00	57.56	32.92	35.16	3.54	58.86	74	-15.14	Peak	Vertical
2399.97	47.56	32.92	35.16	3.54	48.86	54	-5.14	Average	Vertical

Tx-2462

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
2483.50	44.90	33.06	35.18	3.6	46.38	74	-27.62	Peak	Horizontal
2483.51	33.88	33.08	35.18	3.6	35.38	54	-18.62	Average	Horizontal
2487.75	49.27	33.08	35.18	3.62	50.79	74	-23.21	Peak	Horizontal
2487.77	37.93	33.08	35.18	3.62	39.45	54	-14.55	Average	Horizontal
2483.50	44.95	33.06	35.18	3.6	46.43	74	-27.57	Peak	Vertical
2483.53	32.91	33.08	35.18	3.6	34.41	54	-19.59	Average	Vertical
2487.75	50.85	33.08	35.18	3.62	52.37	74	-21.63	Peak	Vertical
2487.77	39.52	33.08	35.18	3.62	41.04	54	-12.96	Average	Vertical

5.5. Conducted Spurious Emissions and Band Edges Test

5.5.1. Standard Applicable

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

5.5.2. Instruments Setting

The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Detector	Peak
Attenuation	Auto
RB / VB (Emission in restricted band)	100KHz/300KHz
RB / VB (Emission in non-restricted band)	100KHz/300KHz

5.5.3. Test Procedures

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz

The spectrum from 9kHz to 26.5GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

5.5.4. Test Setup Layout

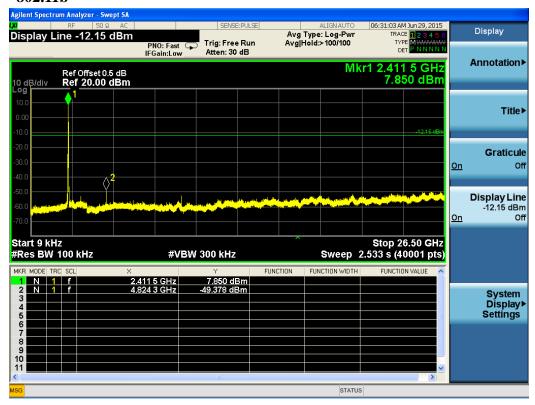
This test setup layout is the same as that shown in section 5.3.4.

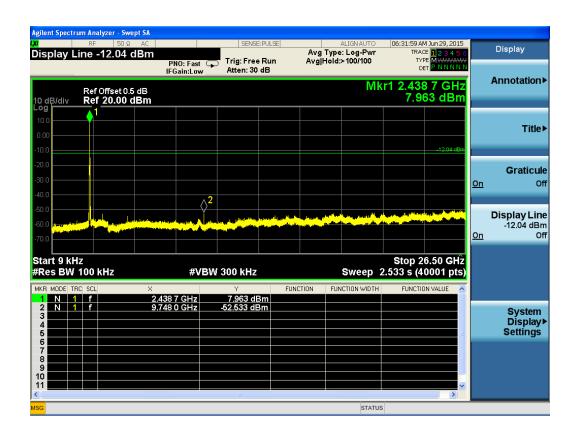
5.5.5. EUT Operation during Test

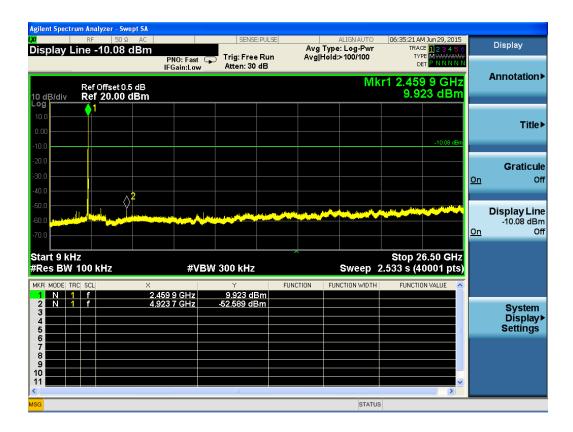
The EUT was programmed to be in continuously transmitting mode.

5.5.6. Test Results of Conducted Spurious Emissions

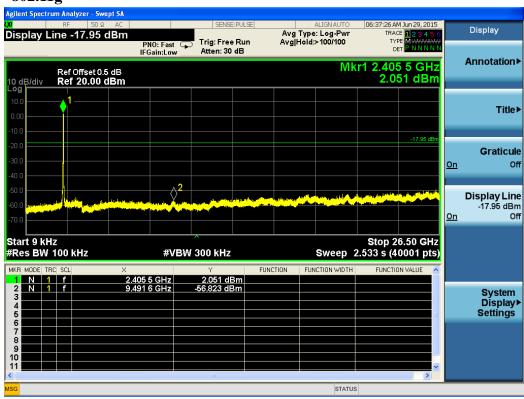
802.11b

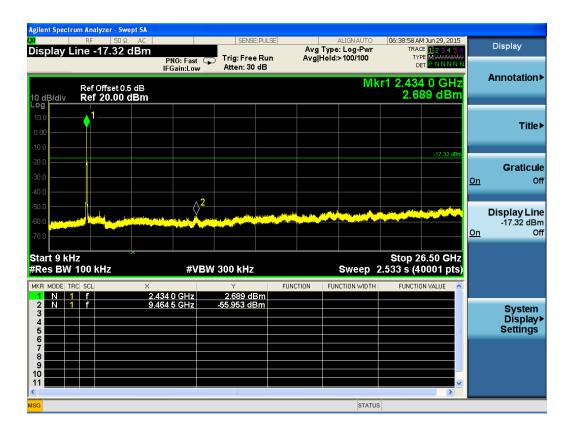


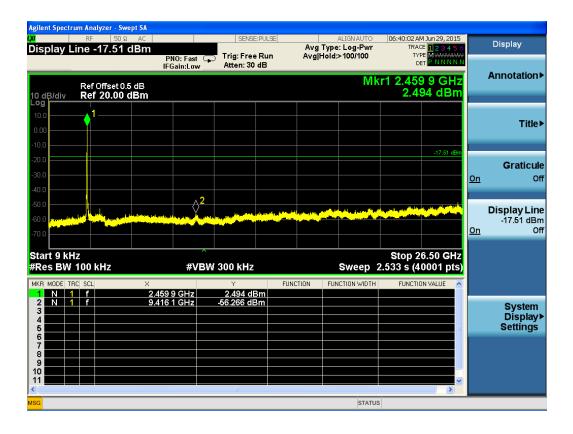




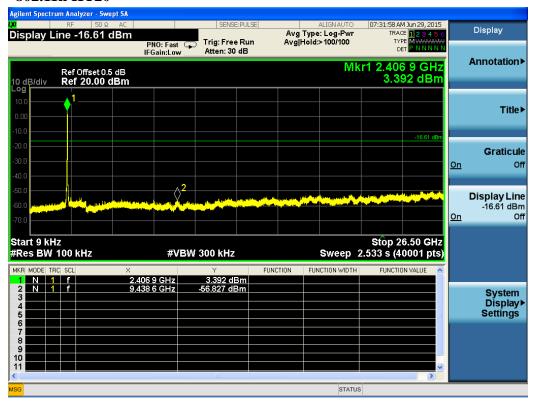
802.11g

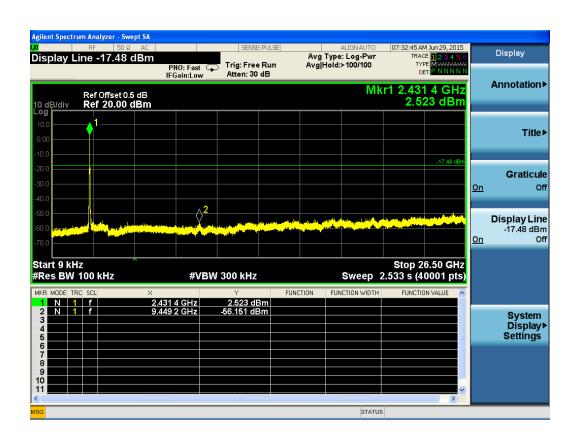


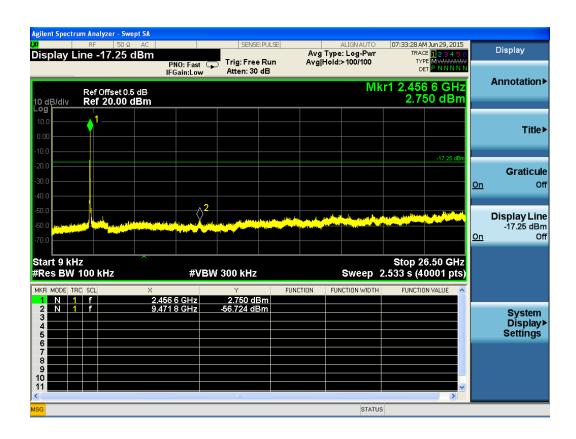




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5.5.7. Test Results of Band Edges Test

802.11b





802.11g





802.11n HT20





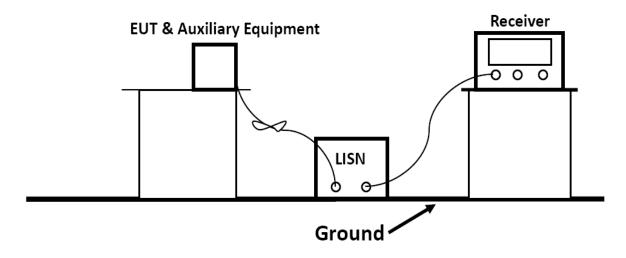
5.6. Power line conducted emissions

5.6.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range	Limits (dBμV)					
(MHz)	Quasi-peak	Average				
0.15 to 0.50	66 to 56	56 to 46				
0.50 to 5	56	46				
5 to 30	60	50				

5.6.2 Block Diagram of Test Setup

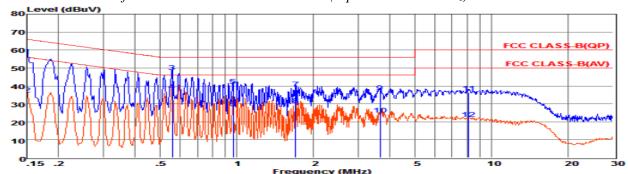


5.6.3 Test Results

PASS.

The test data please refer to following page.

Test Result Of The EUT With AC/DC ADAPTER(Input: AC 240V/60Hz)



Env. Ins: EUT: M/N: Power Rating: Test Mode: Operator:

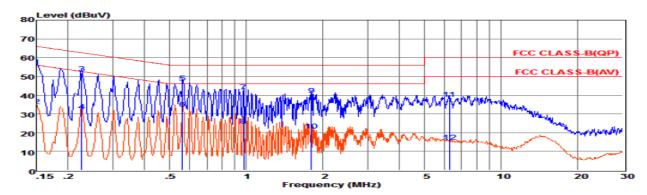
24*/56% Mobile Computer CFON640 AC 240V/60Hz TX-High Channel(802.11b)

Pol:

NEUTRAL

	Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.15000	37.02	9.70	0.02	10.00	56.74	66.00	-9.26	QP
2	0.15010	15.82	9.70	0.02	10.00	35.54	55.99	-20.45	Average
3	0.55814	28.34	9.62	0.04	10.00	48.00	56.00	-8.00	QP
4	0.55824	17.68	9.62	0.04	10.00	37.34	46.00	-8.66	Average
5	0.96840	20.49	9.63	0.05	10.00	40.17	56.00	-15.83	QP
6	0.96850	7.90	9.63	0.05	10.00	27.58	46.00	-18.42	Average
7	1.69810	18.88	9.63	0.05	10.00	38.56	56.00	-17.44	QP
8	1.69910	9.72	9.63	0.05	10.00	29.40	46.00	-16.60	Average
9	3.64176	16.88	9.65	0.06	10.00	36.59	56.00	-19.41	QP
10	3.64276	4.28	9.65	0.06	10.00	23.99	46.00	-22.01	Average
11	8.14832	16.42	9.70	0.07	10.00	36.19	60.00	-23.81	QP
12	8.14932	1.91	9.70	0.07	10.00	21.68	50.00	-28.32	Average

Measured = Reading + Lisn Factor +Cable Loss+Atten_Fac. The emission levels that are 20dB below the official limit are not reported. Remarks: 1.



M/N: Power Rating: 24*/56% Mobile Computer CFON640

Test Mode: Operator: Memo:

Pol:

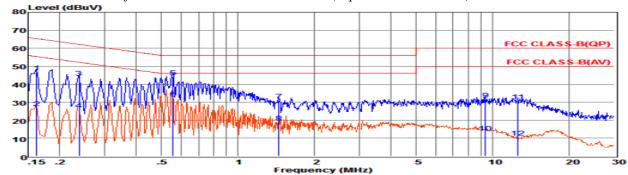
AC 240V/60Hz TX-High Channel (802.11b) Leo

LINE

	Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.15000	35.73	9.57	0.02	10.00	55.32	66.00	-10.68	QP
2	0.15010	14.61	9.57	0.02	10.00	34.20	55.99	-21.79	Average
3	0.22556	32.12	9.63	0.03	10.00	51.78	62.61	-10.83	QP
4	0.22566	11.98	9.63	0.03	10.00	31.64	52.61	-20.97	Average
5	0.56111	27.04	9.63	0.04	10.00	46.71	56.00	-9.29	QP
6	0.56121	13.02	9.63	0.04	10.00	32.69	46.00	-13.31	Average
7	0.97871	22.17	9.63	0.05	10.00	41.85	56.00	-14.15	QP
8	0.97881	4.25	9.63	0.05	10.00	23.93	46.00	-22.07	Average
9	1.80001	20.42	9.64	0.05	10.00	40.11	56.00	-15.89	QP
10	1.80101	1.40	9.64	0.05	10.00	21.09	46.00	-24.91	Average
11	6.25196	18.24	9.67	0.07	10.00	37.98	60.00	-22.02	QP
12	6.25296	-4.47	9.67	0.07	10.00	15.27	50.00	-34.73	Average

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten_Fac.
2. The emission levels that are 20dB below the official limit are not reported.

Test Result Of The EUT With AC/DC ADAPTER(Input: AC 120V/60Hz)



Env. Ins: EUT: M/N: Power Rating: Test Mode:

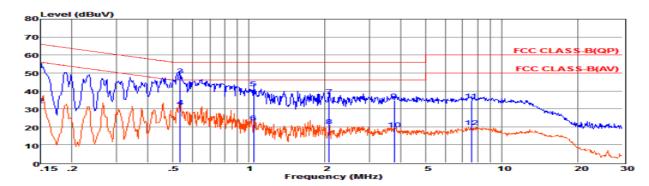
24*/56% Mobile Computer CFON640 AC 120V/60Hz TX-High Channel(802.11b)

Operator: Memo:

Pol: NEUTRAL.

	Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.16241	26.93	9.67	0.02	10.00	46.62	65.34	-18.72	QP
2	0.16251	7.17	9.67	0.02	10.00	26.86	55.33	-28.47	Average
3	0.23784	23.97	9.60	0.03	10.00	43.60	62.17	-18.57	QP
4	0.23794	6.33	9.60	0.03	10.00	25.96	52.17	-26.21	Average
5	0.55520	24.31	9.62	0.04	10.00	43.97	56.00	-12.03	QP
6	0.55530	12.54	9.62	0.04	10.00	32.20	46.00	-13.80	Average
7	1.44855	11.27	9.63	0.05	10.00	30.95	56.00	-25.05	QP
8	1.44955	-0.81	9.63	0.05	10.00	18.87	46.00	-27.13	Average
9	9.35179	11.62	9.71	0.08	10.00	31.41	60.00	-28.59	QP
10	9.35279	-6.77	9.71	0.08	10.00	13.02	50.00	-36.98	Average
111	2.58208	10.68	9.73	0.09	10.00	30.50	60.00	-29.50	QP
121	2.58308	-9.54	9.73	0.09	10.00	10.28	50.00	-39.72	Average

Measured = Reading + Lisn Factor +Cable Loss+Atten_Fac. The emission levels that are 20dB below the official limit are not reported. Remarks:



Env. Ins: EUT: M/N: Power Rating: Test Mode: Operator:

24*/56% Mobile Computer CFON640 AC 120V/60Hz TX-High Channel(802.11b)

Memo: Pol: LINE

	Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.15000	32.26	9.57	0.02	10.00	51.85	66.00	-14.15	QP
2	0.15010	12.66	9.57	0.02	10.00	32.25	55.99	-23.74	Average
3	0.53498	29.21	9.62	0.04	10.00	48.87	56.00	-7.13	QP
4	0.53508	11.50	9.62	0.04	10.00	31.16	46.00	-14.84	Average
5	1.04296	22.01	9.63	0.05	10.00	41.69	56.00	-14.31	QP
6	1.04396	2.79	9.63	0.05	10.00	22.47	46.00	-23.53	Average
7	2.07684	17.56	9.64	0.05	10.00	37.25	56.00	-18.75	QP
8	2.07784	0.78	9.64	0.05	10.00	20.47	46.00	-25.53	Average
9	3.75939	15.17	9.65	0.06	10.00	34.88	56.00	-21.12	QP
10	3.76039	-1.11	9.65	0.06	10.00	18.60	46.00	-27.40	Average
11	7.56578	15.07	9.68	0.07	10.00	34.82	60.00	-25.18	QP
12	7.56678	0.15	9.68	0.07	10.00	19.90	50.00	-30.10	Average

Measured = Reading + Lisn Factor +Cable Loss+Atten_Fac. The emission levels that are 20dB below the official limit are not reported.

***Note: Pre-scan all mode and recorded the worst case results in this report (802.11b (High Channel)).

5.7. Antenna Requirements

5.7.1. Standard Applicable

According to §15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

5.7.2. Antenna Connector Construction

The antenna used for transmitting is permanently attached and no consideration of replacement. Please see EUT photo for details.

5.7.3. Results: Compliance.

6. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal Date	Due Date
EMC Receiver R&S		ESCS 30	100174	9kHz – 2.75GHz	June 18,2015	June 17,2016
Signal analyzer	Agilent	E4448A(External mixers to 40GHz)	US44300469	9kHz~40GHz	July 16,2014	July 15,2015
LISN	MESS Tec	NNB-2/16Z	99079	9KHz-30MHz	June 18,2015	June 17,2016
LISN (Support Unit)	EMCO	3819/2NM	9703-1839	9KHz-30MHz	June 18,2015	June 17,2016
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9KHz-30MHz	June 18,2015	June 17,2016
ISN	SCHAFFNER	ISN ST08	21653	9KHz-30MHz	June 18,2015	June 17,2016
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30M-1GHz 3m	June 18,2015	June 17,2016
Amplifier	SCHAFFNER	COA9231A	18667	9kHz-2GHzz	June 18,2015	June 17,2016
Amplifier	Agilent	8449B	3008A02120	1GHz-26.5GHz	July 16,2014	July 15,2015
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5GHz-40GHz	July 16,2014	July 15,2015
Spectrum Analyzer	Agilent	E4407B	MY41440292	9k-26.5GHz	July 16,2014	July 15,2015
MAX Signal Analyzer	Agilent	N9020A	MY50510140	20Hz~26.5GHz	Oct. 27, 2014	Oct. 26, 2015
Loop Antenna	R&S	HFH2-Z2	860004/001	9k-30MHz	June 18,2015	June 17,2016
By-log Antenna	SCHWARZBECK	VULB9163	9163-470	30MHz-1GHz	June 10,2015	June 09,2016
Horn Antenna	EMCO	3115	6741	1GHz-18GHz	June 10,2015	June 09,2016
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz-40GHz	June 10,2015	June 09,2016
RF Cable-R03m	Jye Bao	RG142	CB021	30MHz-1GHz	June 18,2015	June 17,2016
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1GHz-40GHz	June 18,2015	June 17,2016
Spectrum Meter	R&S	FSP 30	100023	9kHz-30GHz	July 16,2014	July 15,2015
Power Meter	R&S	NRVS	100444	DC-40GHz	June 18,2015	June 17,2016
Power Sensor	R&S	NRV-Z51	100458	DC-30GHz	June 18,2015	June 17,2016
Power Sensor	R&S	NRV-Z32	10057	30MHz-6GHz	June 18,2015	June 17,2016
RF CABLE-1m	JYE Bao	RG142	CB034-1m	20MHz-7GHz	June 18,2015	June 17,2016
RF CABLE-2m	JYE Bao	RG142	CB035-2m	20MHz-1GHz	June 18,2015	June 17,2016

Note: All equipment through GRGT EST calibration

-----THE END OF REPORT-----