



FCC ID:I46INF4030

AUDIX Technology (Shenzhen) Co., Ltd.

FCC PART 15C TEST REPORT FOR CERTIFICATION

On Behalf of

InFocus Corporation

40" LCD PC

Model No.: INF4030

FCC ID: I46INF4030

Prepared for : InFocus Corporation

13190 SW 68th Parkway, Suit 200, Portland Pregon 97223,  
USA

Prepared By : Audix Technology (Shenzhen) Co., Ltd.

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Report Number : ACS-F15272

Date of Test : Aug.23~Sep.15, 2015

Date of Report : Sep.23, 2015

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**TEST REPORT CERTIFICATION**

Applicant : InFocus Corporation  
 Manufacture : InFocus Corporation  
 EUT Description : 40" LCD PC  
 FCC ID : I46INF4030  
 (A) Model No. : INF4030  
 (B) Serial No. : N/A  
 (C) Test Voltage : AC 120V/60Hz

Tested for comply with:

FCC CFR47 Part 15 Subpart C: 2014  
 Test procedure used : ANSI C63.10: 2013;  
 KDB558074 D01 v03r03

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Aug.21~Sep.21, 2015 Report of date: Sep.23, 2015

Prepared by : Monica Liu Reviewed by : Sunny Lu  
 Monica Liu / Assistant Sunny Lu / Assistant Manager

 信華科技(深圳)有限公司  
 Audix Technology (Shenzhen) Co., Ltd.  
 EMC 部門報告專用章  
 Stamp only for EMC Dept. Report  
 Signature: David Jin  
 David Jin / Manager

Approved & Authorized Signer:

## 1. SUMMARY OF STANDARDS AND RESULTS

### 1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

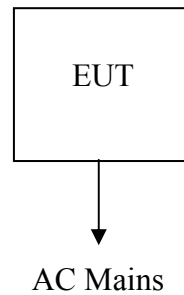
EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.10 :2013	PASS
Radiated Emission Test	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10 : 2013	PASS
Conducted Spurious Emissions	FCC Part 15: 15.247(a)(1) ANSI C63.10 : 2013	PASS
Carrier Frequency Separation Test	FCC Part 15: 15.247(a)(1) ANSI C63.10 : 2013	PASS
6dB Bandwidth Test	FCC Part 15: 15.215 ANSI C63.10 : 2013	PASS
Maximum Peak Output Power Test	FCC Part 15: 15.247(b)(1) ANSI C63.10 : 2013	PASS
Band Edge Compliance Test	FCC Part 15: 15.247(d) ANSI C63.10 : 2013	PASS
Power Spectral Density Test	FCC Part 15: 15.247(d) ANSI C63.10 : 2013	PASS

## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

Product Name	: 40" LCD PC
Model Number	: INF4030
FCC ID	: I46INF4030
Radio	: IEEE802.11 a/b/g/n; Bluetooth V3.0+EDR; Bluetooth V4.0
Operation Frequency	: IEEE 802.11a: 5180MHz—5240MHz; 5745MHz—5825MHz IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE802.11n HT20: 2412MHz—2462MHz; 5180MHz—5240MHz; 5745MHz—5825MHz IEEE802.11n HT40: 2422MHz—2452MHz; 5190MHz—5230MHz; 5755MHz—5795MHz Bluetooth : 2402-2480MHz
Modulation Technology	: IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11a/g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM,QPSK,BPSK) Bluetooth V3.0+EDR: GFSK, $\pi/4$ DQPSK,8-DPSK Bluetooth V4.0:GFSK
Antenna Assembly Gain	: Antenna Type: PIFA Bluetooth: 2.63dBi WIFI 2.4GHz: 2.63dBi WIFI 5GHz: 3.43dBi
Applicant	: InFocus Corporation 13190 SW 68th Parkway, Suit 200, Portland Pregon 97223, USA
Manufacturer	: InFocus Corporation 13190 SW 68th Parkway, Suit 200, Portland Pregon 97223, USA
Factory	: Hongfujin precision industry (wuhan) Co., Ltd. 1#, 2nd GUANG GU ROAD, DONGHU NEW TECHNOLOGY DEVELOPMENT DISTRICT, WUHAN CITY, HUBEI PROVINCE, CHINA
Control Pen	: Manufacturer: InFocus
Power Cable	: Unshielded, Detachable, 3.0m
Date of Test	: Aug.23~Sep.15, 2015
Date of Receipt	: Aug.15, 2015

## 2.2. Block diagram of connection between the EUT and simulators



**(EUT: 40" LCD PC)**

### 2.3. Test information

A Special Test Software was used to control EUT work in Continuous TX mode (GFSK modulation), and select test channel.

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)	Channel	Frequency (MHz)
Tx Mode GFSK modulation	3	Low :CH 0	2402
	3	Middle: CH19	2440
	3	High: CH39	2480

2.4. Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.  
 No. 6, Ke Feng Rd., 52 Block, Shenzhen  
 Science & Industrial Park, Nantou, Shenzhen,  
 Guangdong, China

3m Anechoic Chamber : Certificated by FCC, USA  
 Registration Number: 90454  
 Valid Date: Dec.30,2017

3m & 10m Anechoic Chamber : Certificated by FCC, USA  
 Registration Number: 794232  
 Valid Date: Jul.12, 2017

EMC Lab. : Certificated by Industry Canada  
 Registration Number: IC 5183A-1  
 Valid Date: May.14, 2017

: Certificated by DAkkS, Germany  
 Registration No: D-PL-12151-01-00  
 Valid Date: Dec.15, 2016

: Accredited by NVLAP, USA  
 NVLAP Code: 200372-0  
 Valid Date: Mar.31, 2016

2.5. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.4 dB(150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.0 dB(30~200MHz, Polarization: H)
	3.0 dB(30~200MHz, Polarization: V)
	3.2 dB(200M~1GHz, Polarization: H)
	3.1 dB(200M~1GHz, Polarization: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	6.3 dB (1~6GHz, Distance: 3m)
	5.7 dB (6~18GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.6 dB
Uncertainty for Conduction Spurious emission test	2.0 dB
Uncertainty for Output power test	0.8 dB
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.1 %
Uncertainty for test site temperature and humidity	0.6°C
	3%

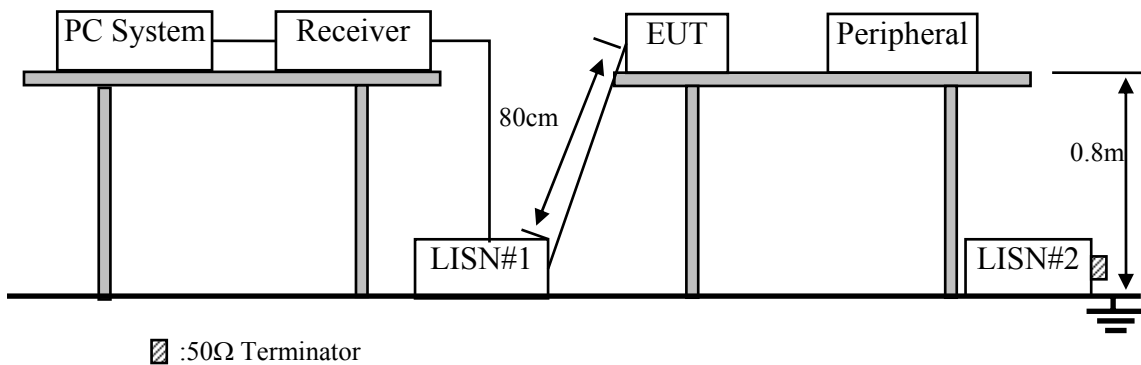


### 3. POWER LINE CONDUCTED EMISSION TEST

#### 3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Apr.17,15	1 Year
2.	Test Receiver	Rohde & Schwarz	ESCI	100842	Apr.28,15	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	100429	Oct.29,14	1 Year
4.	L.I.S.N.#2	Kyoritsu	K NW-403D	8-1750-2	Apr.28,15	1 Year
5.	Terminator	Hubersuhner	50Ω	No.1	Apr.28,15	1 Year
6.	Terminator	Hubersuhner	50Ω	No.2	Apr.28,15	1 Year
7.	RF Cable	MIYAZAKI	3D-2W	No.1	Apr.28,15	1Year
8.	Coaxial Switch	Anritsu	MP59B	6200766906	Apr.28,15	1 Year
9.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101838	Oct.29,14	1 Year
10.	Test Software	AUDIX	E3	6.100913a	N/A	N/A

#### 3.2. Block Diagram of Test Setup



#### 3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. \* Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

### 3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

#### 3.4.1. 40" LCD PC (EUT)

Model Number : INF4030  
Serial Number : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

### 3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turn on the power of all equipments.

3.5.3. PC run test software to control EUT work in BT 4.0 Tx mode.

### 3.6. Test Procedure

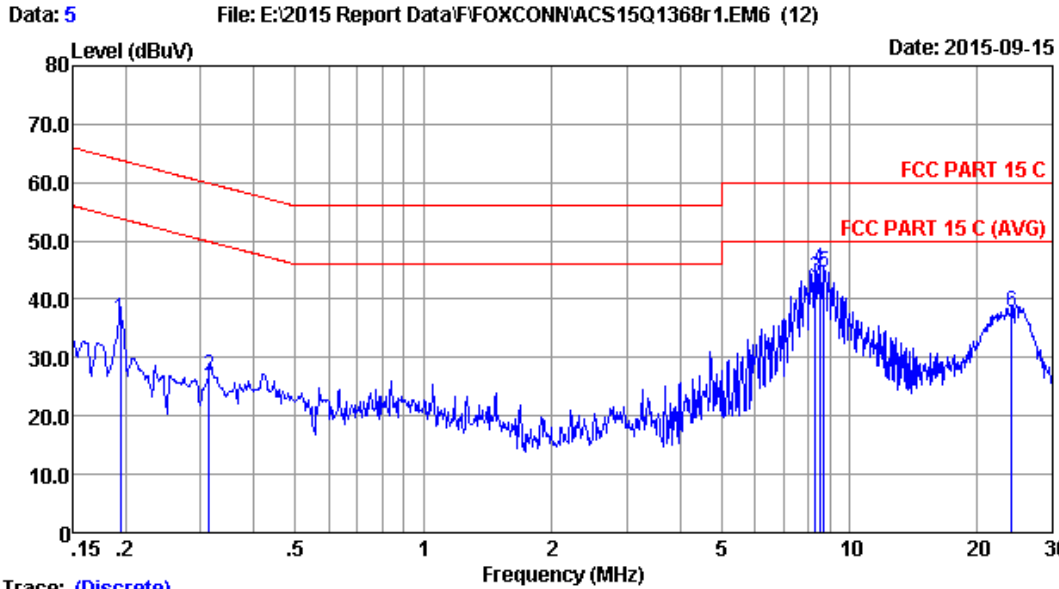
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via PC connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESCI) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

### 3.7. Power Line Conducted Emission Test Results

**PASS.** (All emissions not reported below are too low against the prescribed limits.)

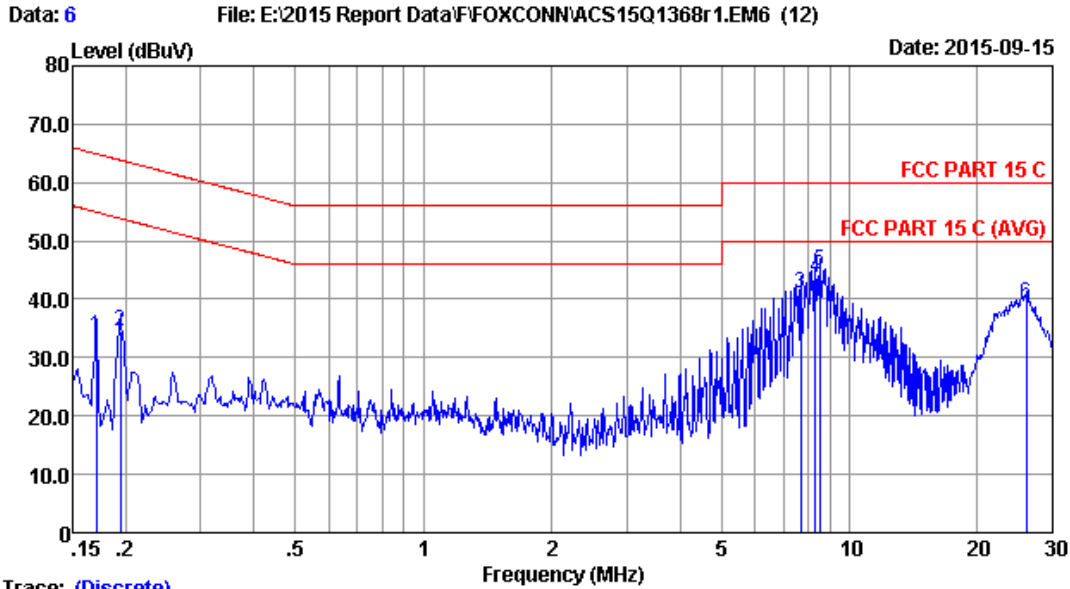


Trace: (Discrete)

Site no	:1# Conduction	Data No	:5
Dis./Lisn	:2014 ESH2-25 LINE		
Limit	:FCC PART 15 C		
Env./Ins.	:23.1*C/56%	Engineer	:Leo_Li
EUT	:40" LCD PC		
Power Rating	:AC 120V/60Hz		
Test Mode	:Tx Mode		
	M/N: INF4030		

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.194	0.13	9.93	26.62	36.68	63.84	27.16	QP
2	0.313	0.13	9.93	16.79	26.85	59.88	33.03	QP
3	8.323	0.27	10.11	33.45	43.83	60.00	16.17	QP
4	8.501	0.27	10.12	34.87	45.26	60.00	14.74	QP
5	8.729	0.27	10.12	34.31	44.70	60.00	15.30	QP
6	24.015	0.64	10.34	26.95	37.93	60.00	22.07	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.  
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Trace: (Discrete)

Site no	:1# Conduction	Data No	:6
Dis./Lisn	:2014 ESH2-25 NEUTRAL		
Limit	:FCC PART 15 C		
Env./Ins.	:23.1*C/56%	Engineer	:Leo_Li
EUT	:40" LCD PC		
Power Rating	:AC 120V/60Hz		
Test Mode	:Tx Mode		
	M/N: INF4030		

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.170	0.13	9.92	23.69	33.74	64.94	31.20	QP
2	0.194	0.13	9.93	24.43	34.49	63.84	29.35	QP
3	7.687	0.32	10.10	30.59	41.01	60.00	18.99	QP
4	8.323	0.32	10.11	33.13	43.56	60.00	16.44	QP
5	8.501	0.32	10.12	34.40	44.84	60.00	15.16	QP
6	26.001	0.77	10.34	28.17	39.28	60.00	20.72	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.  
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

## 4. RADIATED EMISSION MEASUREMENT

### 4.1. Test Equipment

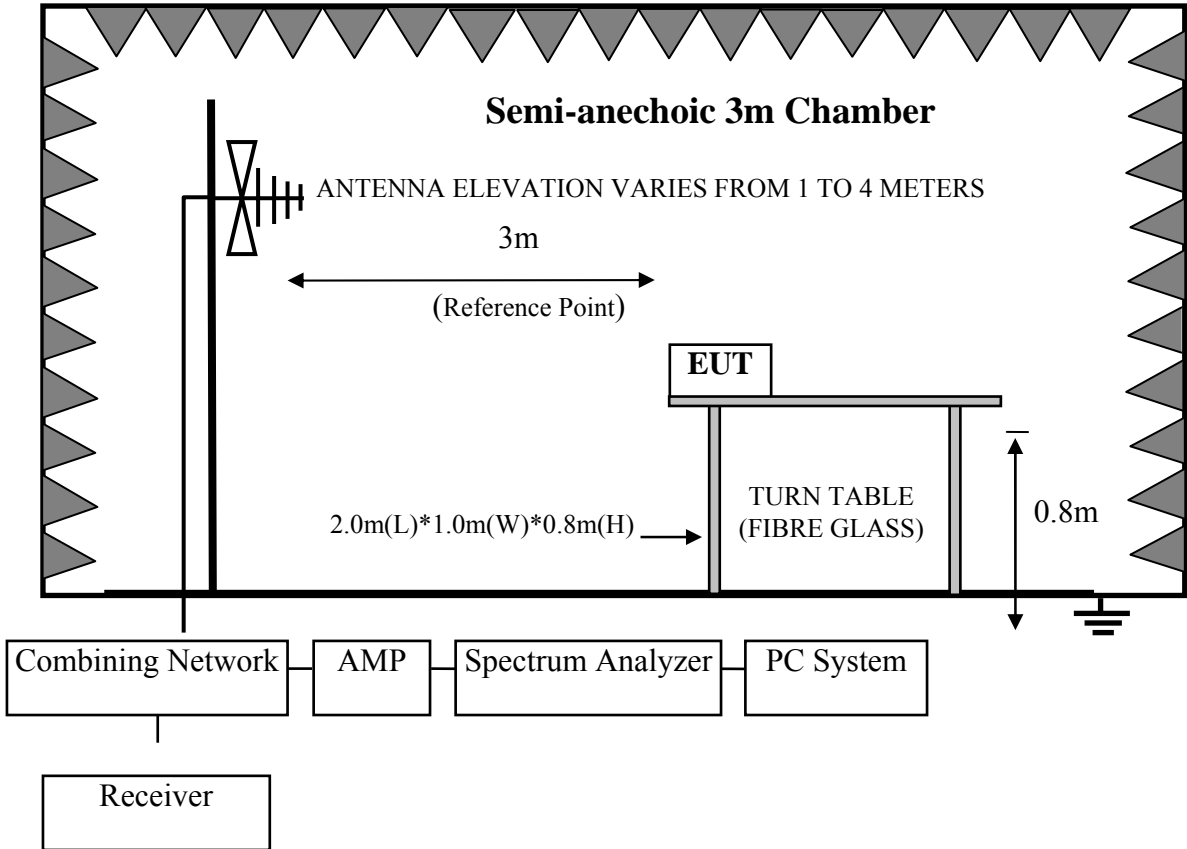
Frequency range: 30~1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Nov.23,14	1 Year
2.	EMI Spectrum	Agilent	E4407B	MY41440292	Apr.28,15	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	Apr.28,15	1 Year
4.	Amplifier	HP	8447D	2648A04738	Apr.28,15	1 Year
5.	Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-493	May.06,15	1 Year
6.	RF Cable	MIYAZAKI	CFD400-NW (3.5M)	No.3	Apr.28,15	1 Year
7.	RF Cable	MIYAZAKI	CFD400-LW (22M)	No.7	Apr.28,15	1 Year
8.	Coaxial Switch	Anritsu	MP59B	6201397222	Apr.28,15	1 Year
9.	Test Software	AUDIX	E3	6.2009-5-21a(n)	N/A	N/A

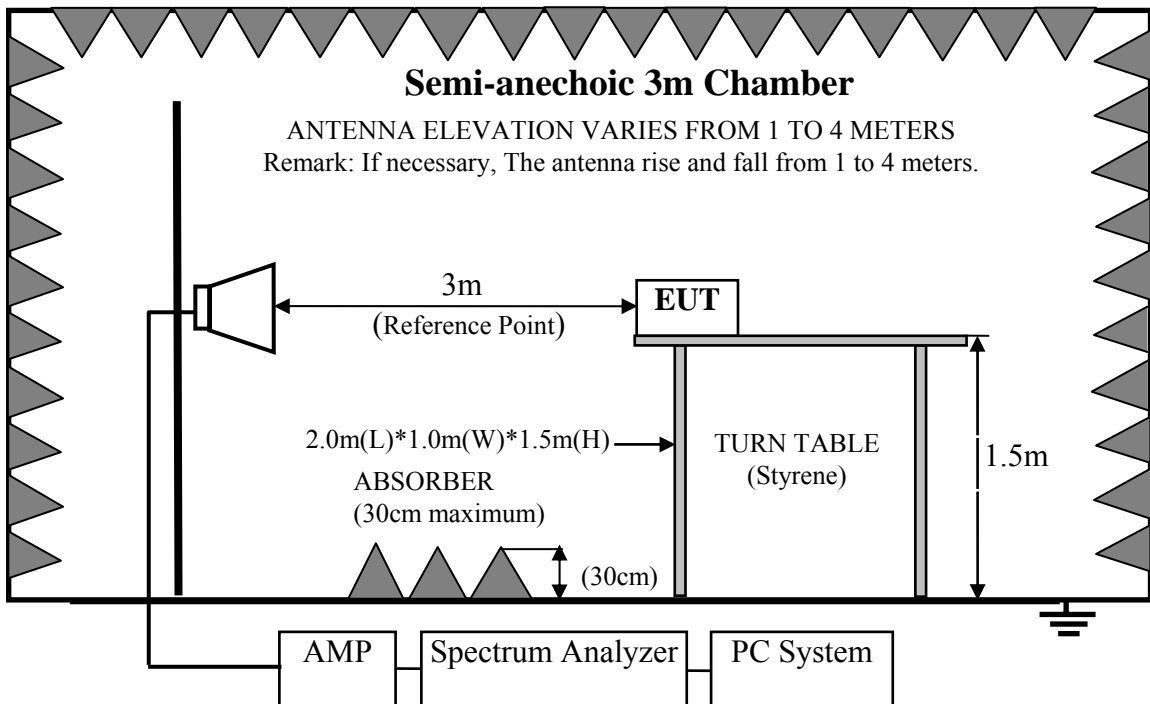
Frequency range: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	Apr.28,15	1 Year
2	Horn Antenna	ETS	3115	9510-4877	Sep.20,14	1 Year
3	Amplifier	Agilent	8449B	3008A02495	Apr.28,15	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	Apr.28,15	1 Year
5	Horn Antenna	ETS	3116	00060089	Sep.20,14	1 Year
6	Test Software	AUDIX	E3	6.2009-5-21a(n)	N/A	N/A

4.2. Block Diagram of Test Setup  
For frequency range 30MHz-1000MHz



For frequency range 1GHz-25GHz



4.3. Radiated Emission Limit Standard:

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000MHz	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

- Remark :
- (1) Emission level dBμV = 20 log Emission level μV/m
  - (2) The smaller limit shall apply at the cross point between two frequency bands.
  - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
  - (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1. 40" LCD PC (EUT)

Model Number : INF4030  
Serial Number : N/A

4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT and simulator as shown as Section 4.2.
- 4.5.2. Turn on the power of all equipments.
- 4.5.3. Let EUT work in BT 4.0 Tx mode.

4.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground for frequency 30MHz~1000MHz, 1.5 meter high above ground for frequency above 1GHz and put the absorbing with 2.4m(L)\*2.4m(W)\*0.3m(H) on the ground . The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it.EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna for frequency 30MHz~1000MHz, and the Horn antenna is used as receiving antenna for frequency above 1GHz. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2013 on radiated emission Test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as the test photo indicated.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz.

This device is pulse Modulated, a duty cycle factor was used to calculated average level based measured peak level.

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

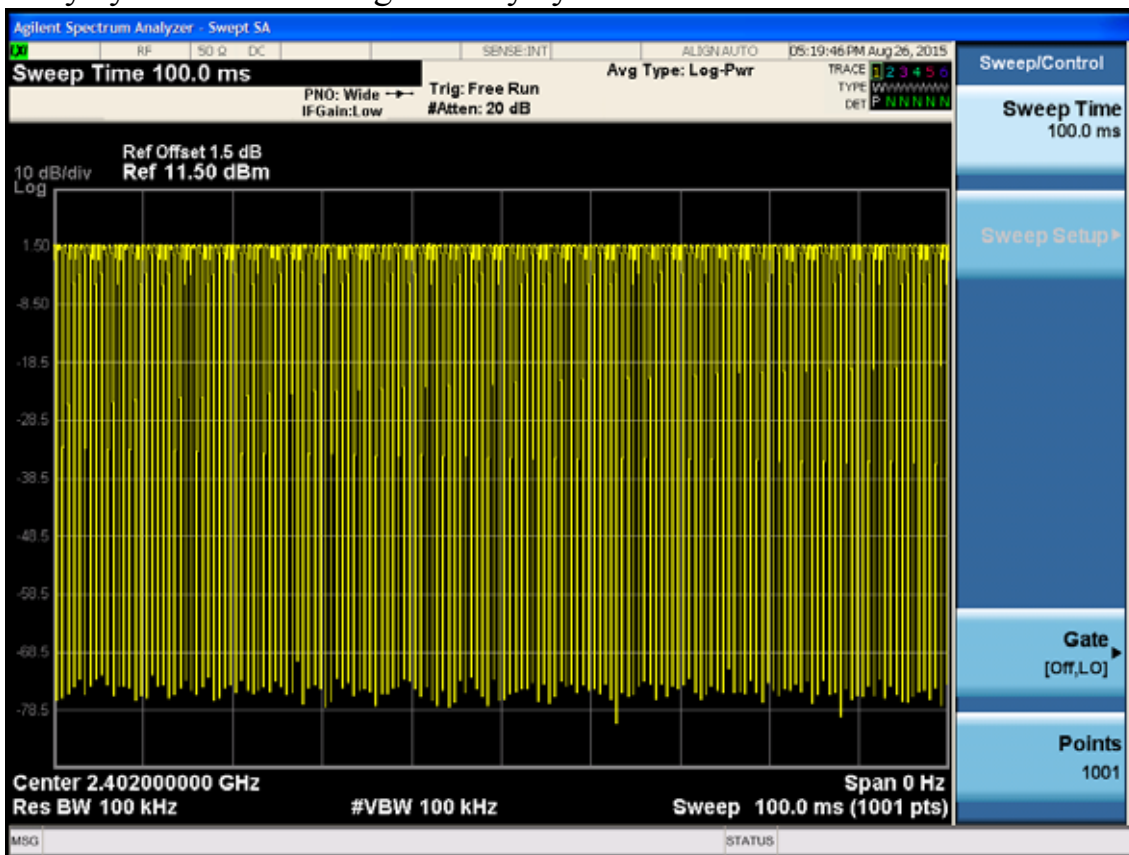
#### 4.7. Radiated Emission Test Results

**PASS.**

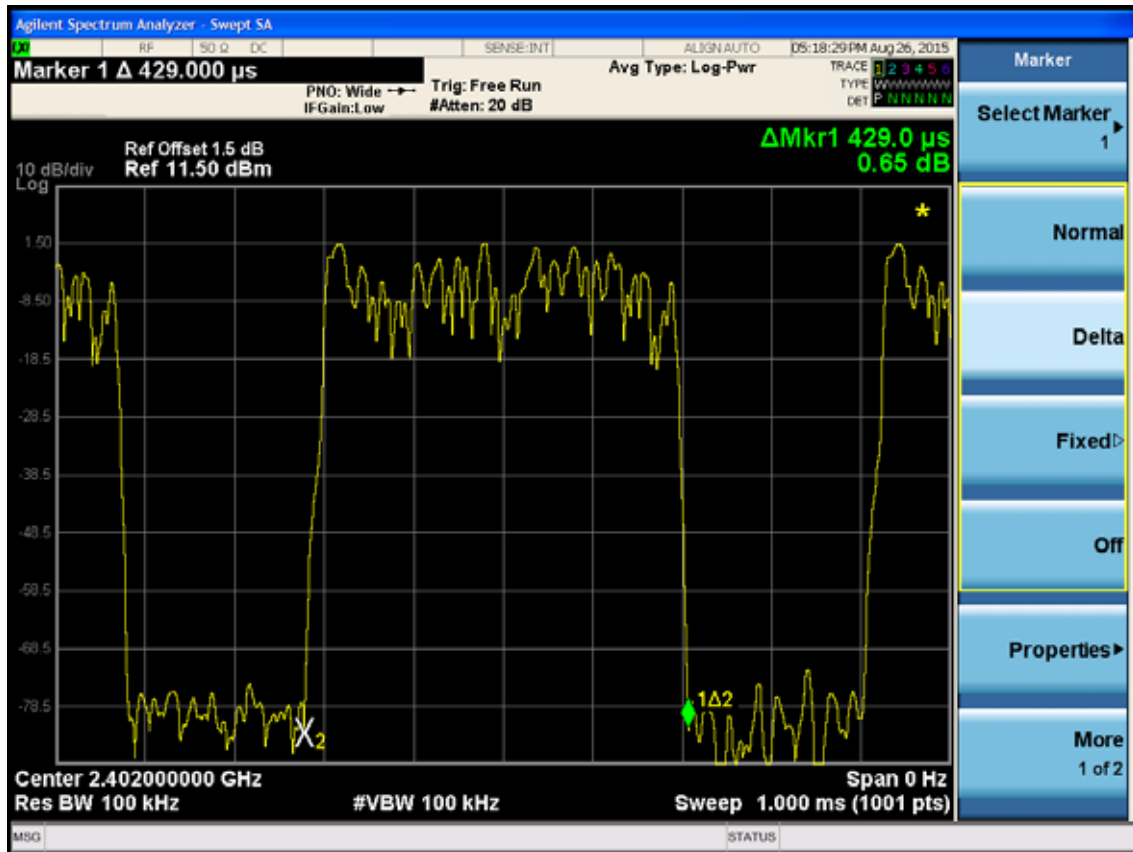
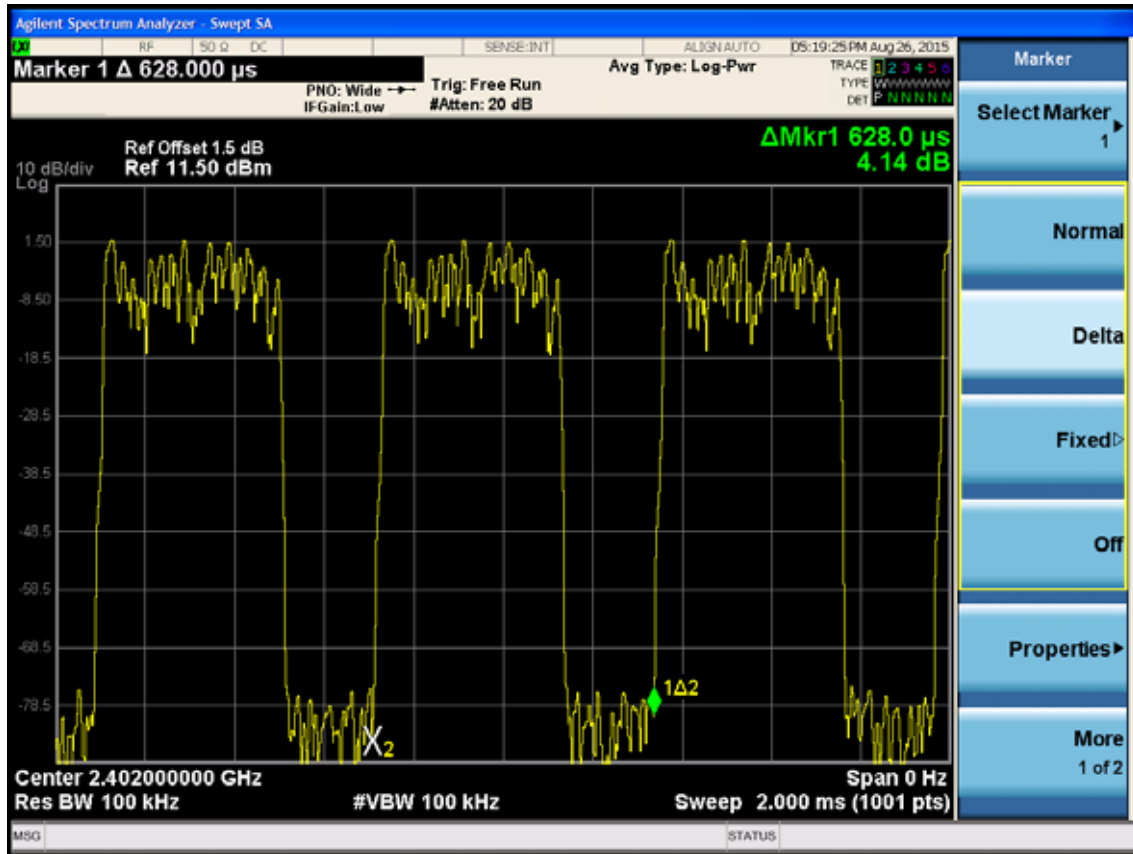
All the emissions from 30MHz to 25GHz were comply with the 15.209 Limit.

Note: The duty cycle factor for calculate average level is 3.31 dB, and average limit is 20dB below peak limit, so if peak measured level comply with average limit, the average level was deemed to comply with average limit

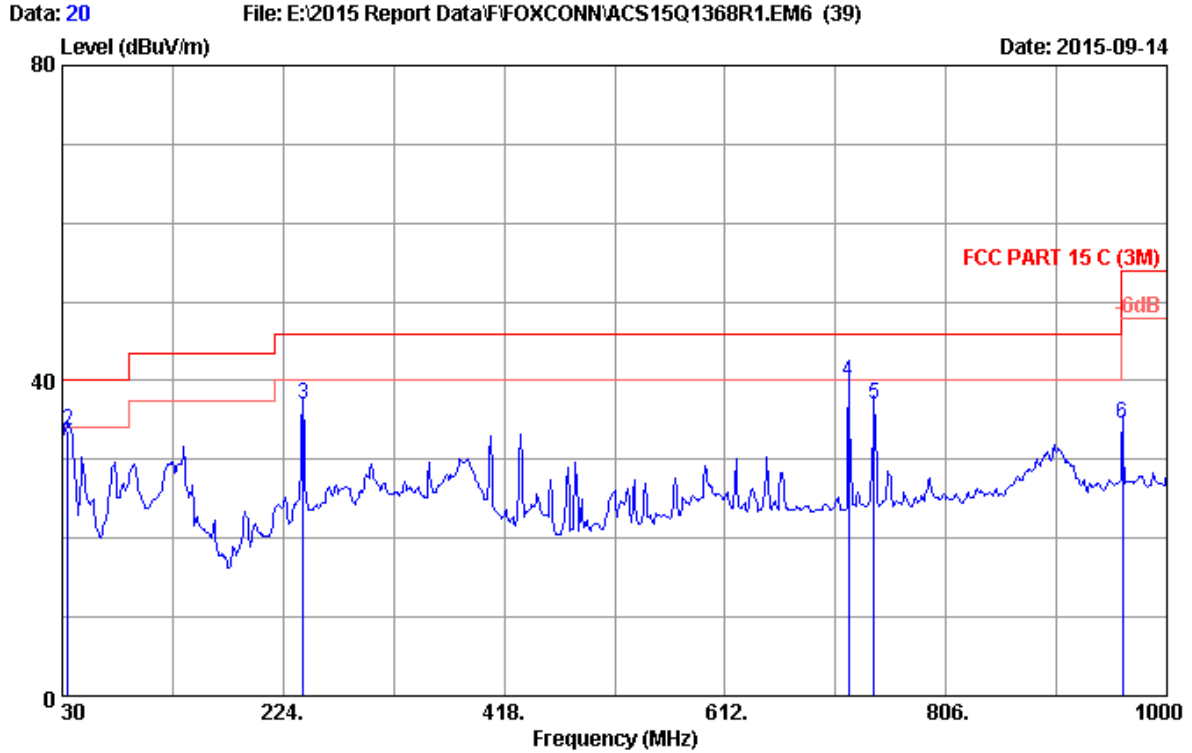
$$\text{Duty cycle factor} = 20\log (1/\text{duty cycle}) = 3.31\text{dB}$$









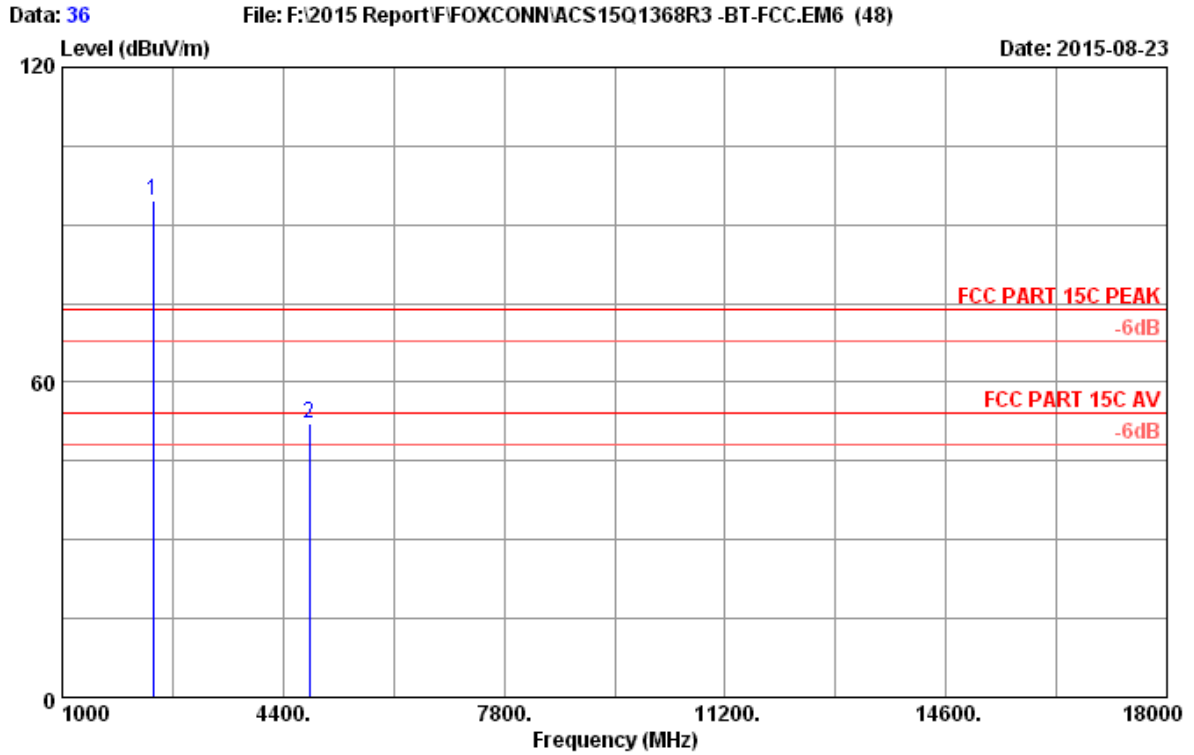


Site no. : 3m Chamber Data no. : 20  
 Dis. / Ant. : 3m 2015 CBL6112D 35375 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C (3M)  
 Env. / Ins. : 24°C/56% Engineer : Leo-Li  
 EUT : 40" LCD PC M/N:INF4030  
 Power rating : AC 120V/60Hz  
 Test Mode : Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	20.30	0.51	13.38	34.19	40.00	5.81	QP
2	34.850	17.15	0.61	15.93	33.69	40.00	6.31	QP
3	241.460	12.67	1.65	22.59	36.91	46.00	9.09	QP
4	720.640	20.11	3.07	16.65	39.83	46.00	6.17	QP
5	742.950	20.53	3.12	13.35	37.00	46.00	9.00	QP
6	961.200	22.60	3.62	8.33	34.55	54.00	19.45	QP

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

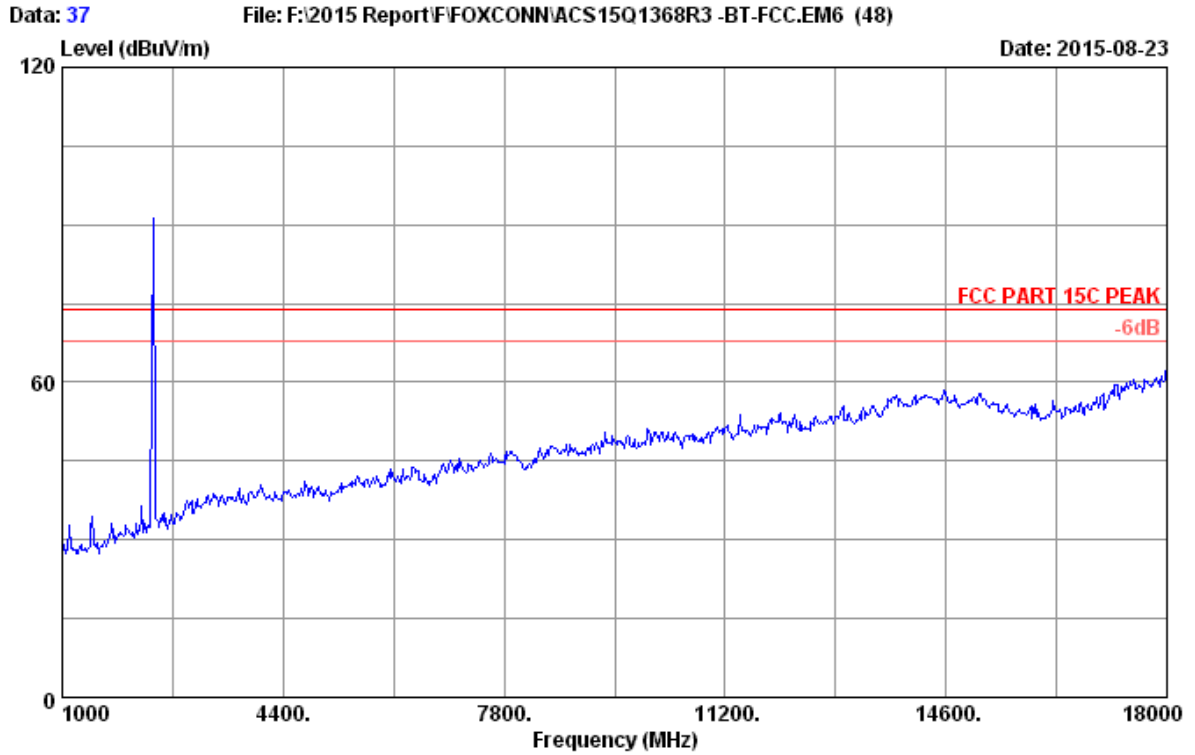




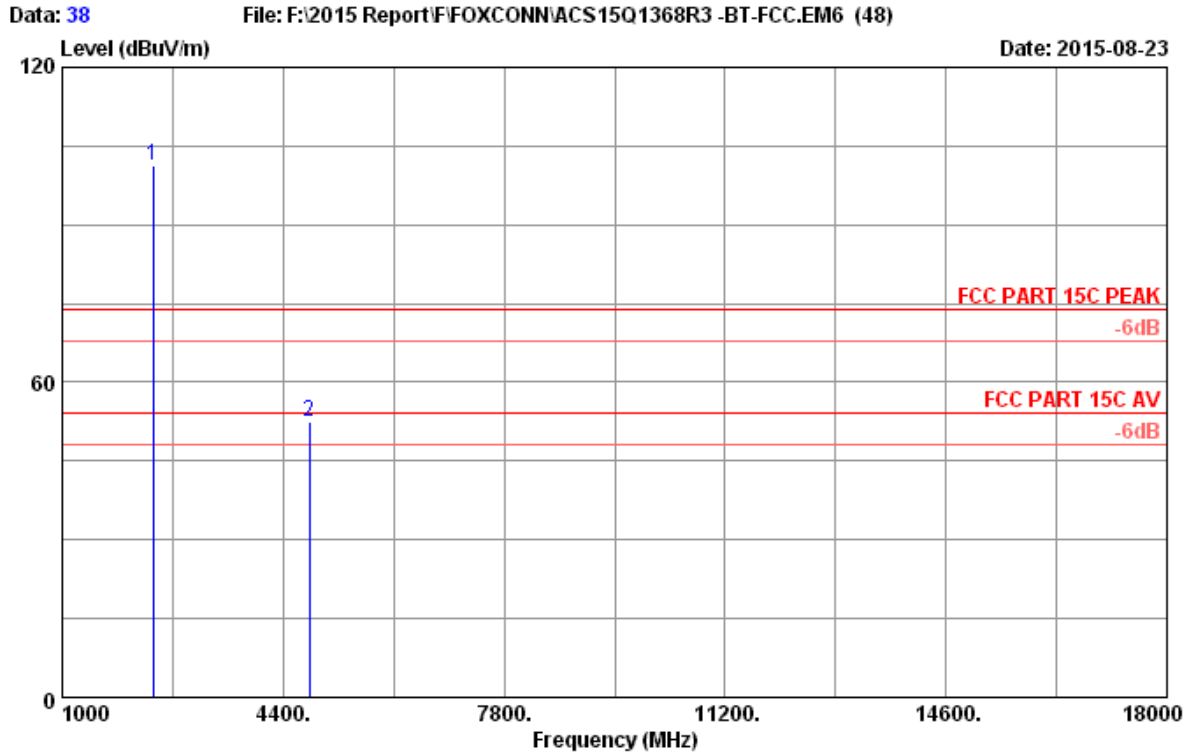
Site no. : 3m Chamber Data no. : 36  
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Leo-Li  
 EUT : 40" LCD PC  
 Power rating : AC 120V/60Hz  
 Test Mode : GFSK 2402MHz Tx  
 M/N : INF4030

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	28.26	7.32	36.62	95.77	94.73	74.00	-20.73	Peak
2	4804.000	33.02	9.46	35.54	45.31	52.25	74.00	21.75	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



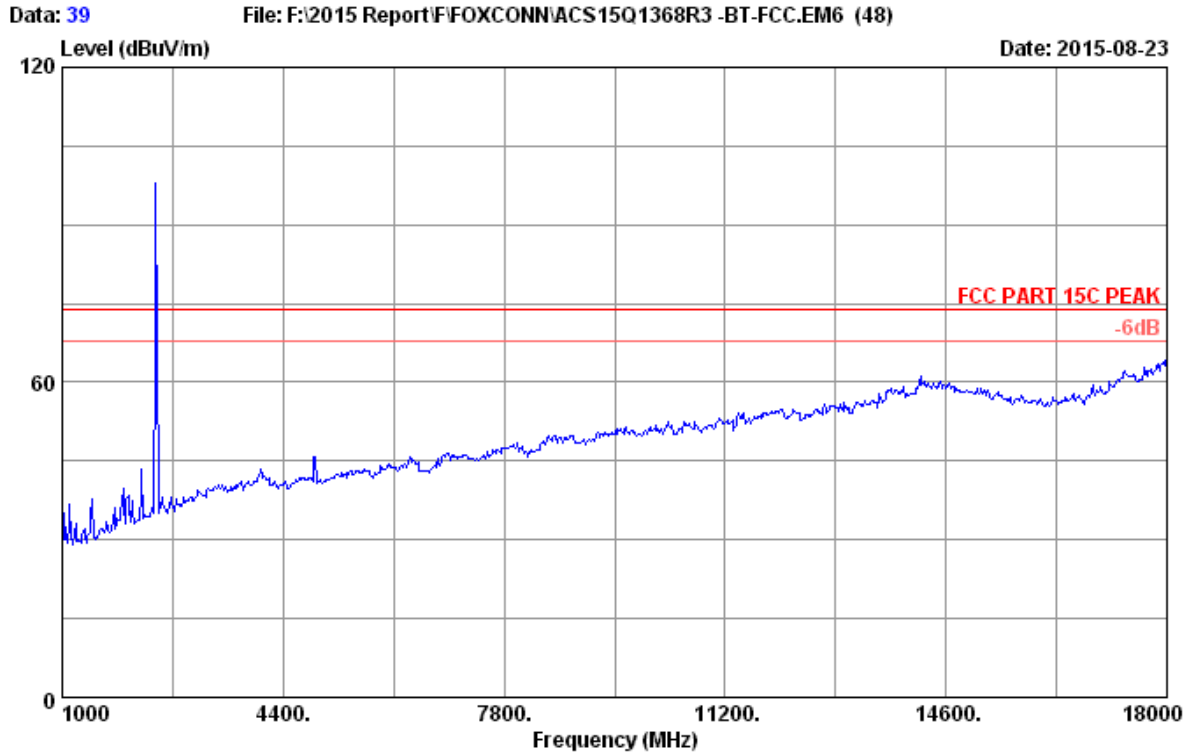
Site no. : 3m Chamber Data no. : 37  
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23\*C/54%  
Engineer : Leo-Li  
EUT : 40" LCD PC  
Power rating : AC 120V/60Hz  
Test Mode : GFSK 2402MHz Tx  
M/N : INF4030



Site no. : 3m Chamber Data no. : 38  
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Leo-Li  
 EUT : 40" LCD PC  
 Power rating : AC 120V/60Hz  
 Test Mode : GFSK 2402MHz Tx  
 M/N : INF4030

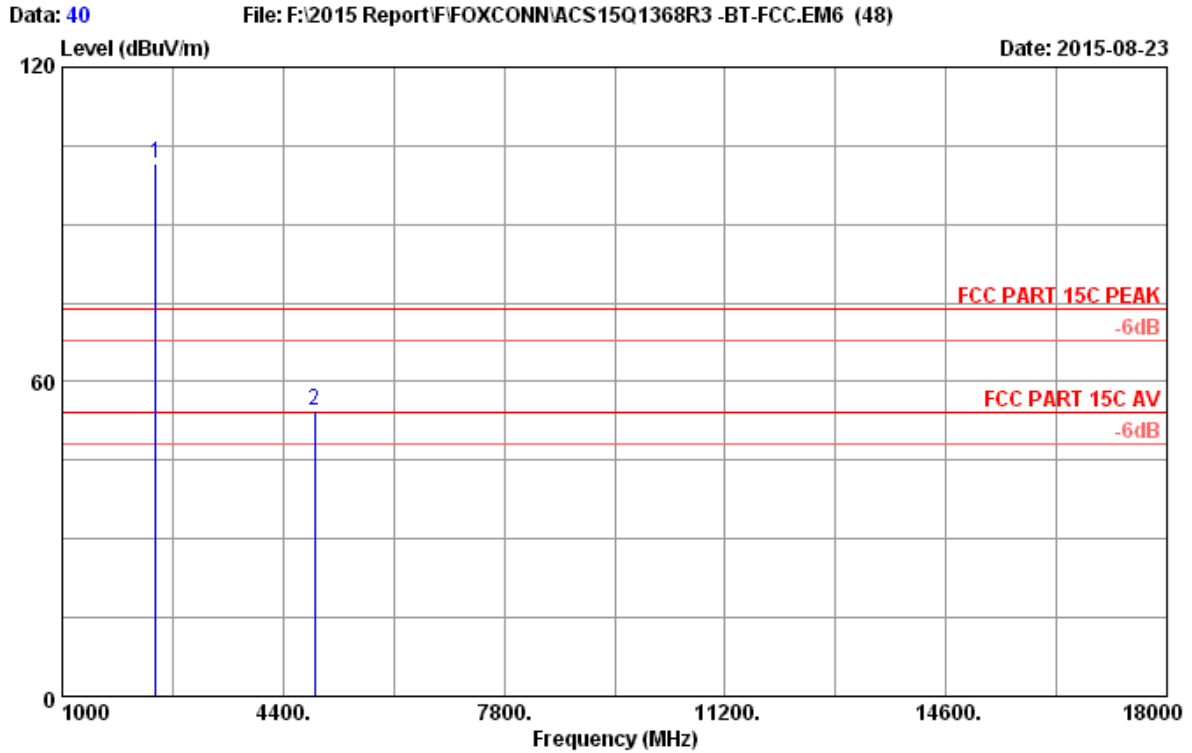
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	28.26	7.32	36.62	102.42	101.38	74.00	-27.38	Peak
2	4804.000	33.02	9.46	35.54	45.59	52.53	74.00	21.47	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 39  
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23\*C/54%  
Engineer : Leo-Li  
EUT : 40" LCD PC  
Power rating : AC 120V/60Hz  
Test Mode : GFSK 2440MHz Tx  
M/N : INF4030



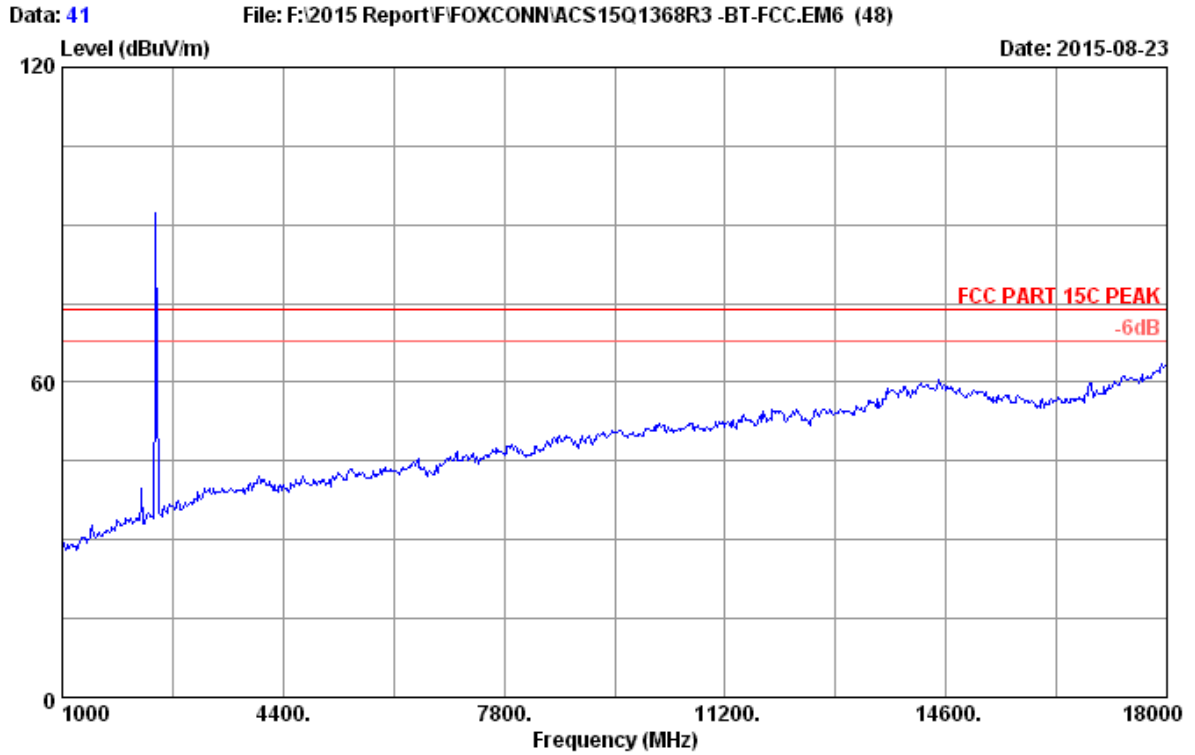


Site no. : 3m Chamber Data no. : 40  
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Leo-Li  
 EUT : 40" LCD PC  
 Power rating : AC 120V/60Hz  
 Test Mode : GFSK 2440MHz Tx  
 M/N : INF4030

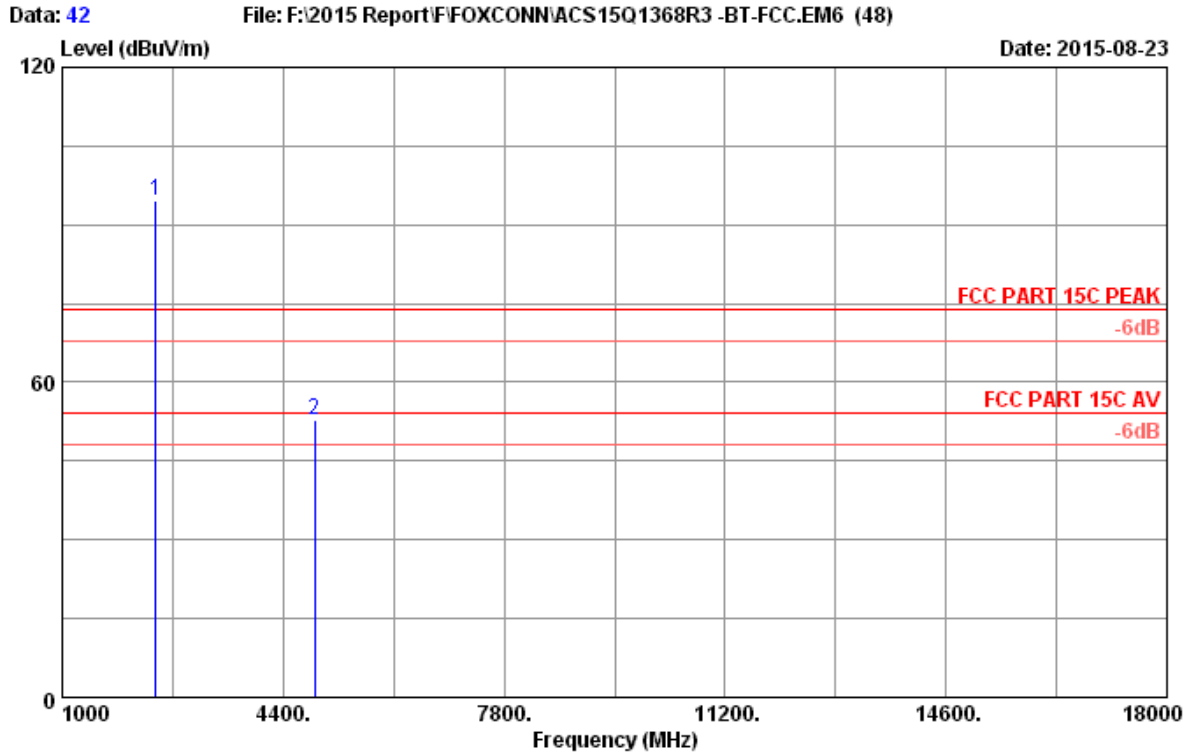
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2440.000	28.31	7.39	36.60	102.39	101.49	74.00	-27.49	Peak
2	4880.000	33.17	9.49	35.51	47.18	54.33	74.00	19.67	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
4880.000	54.33	3.31	51.04	54	Pass



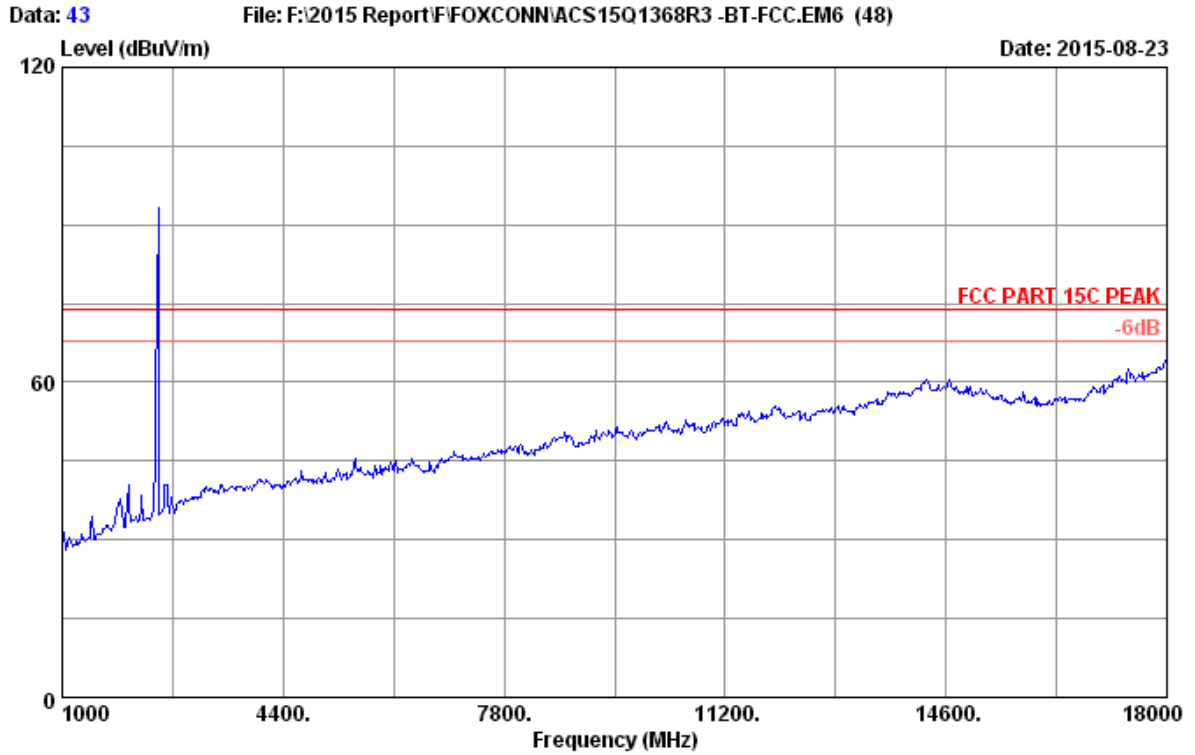
Site no. : 3m Chamber Data no. : 41  
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23\*C/54%  
Engineer : Leo-Li  
EUT : 40" LCD PC  
Power rating : AC 120V/60Hz  
Test Mode : GFSK 2440MHz Tx  
M/N : INF4030



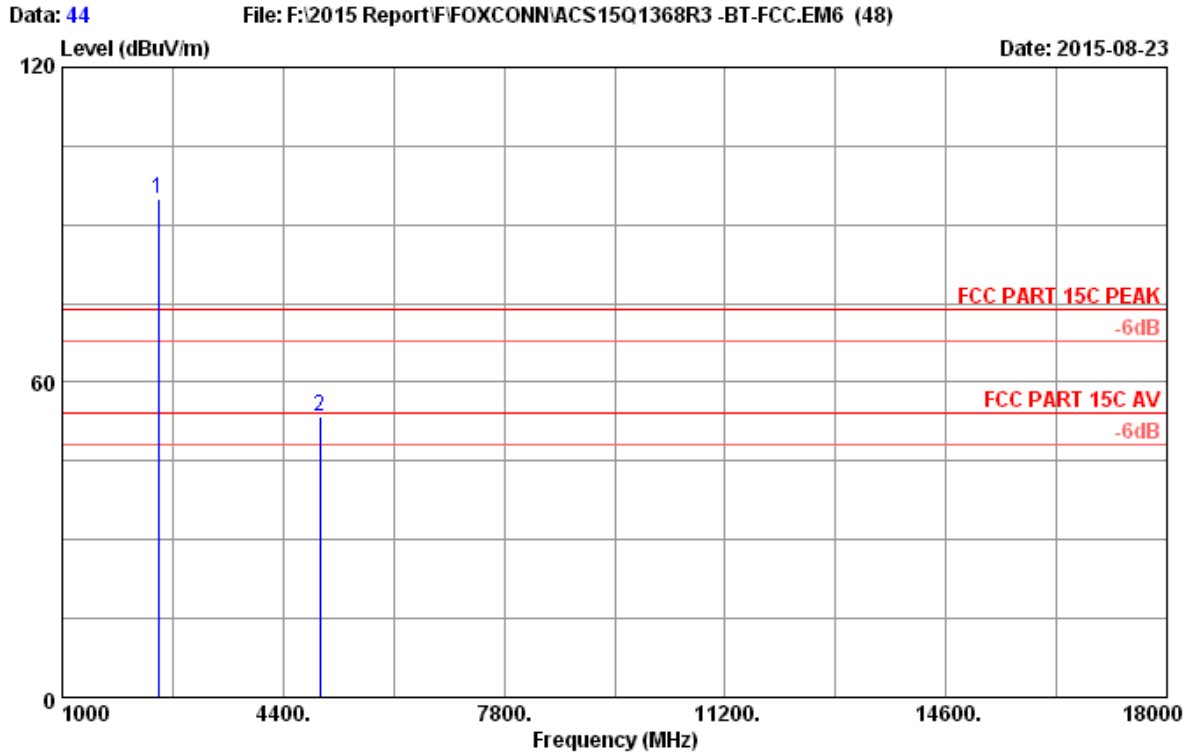
Site no. : 3m Chamber Data no. : 42  
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Leo-Li  
 EUT : 40" LCD PC  
 Power rating : AC 120V/60Hz  
 Test Mode : GFSK 2440MHz Tx  
 M/N : INF4030

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2440.000	28.31	7.39	36.60	95.37	94.47	74.00	-20.47	Peak
2	4880.000	33.17	9.49	35.51	45.67	52.82	74.00	21.18	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



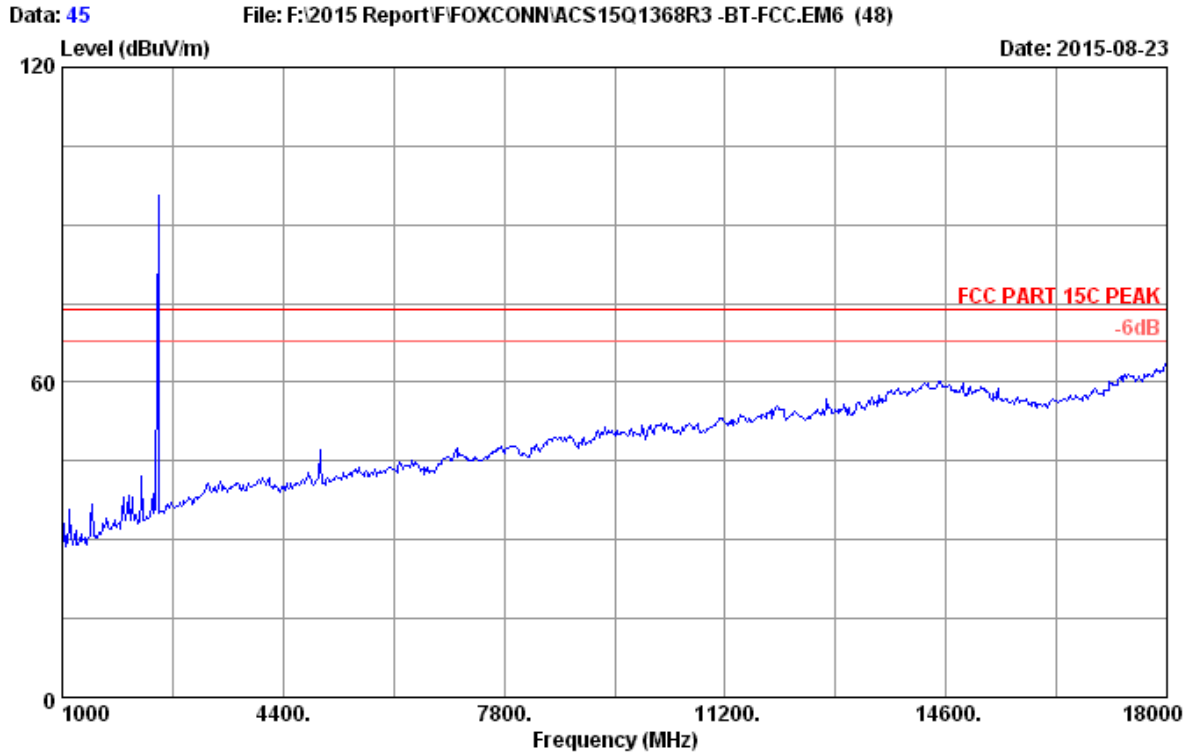
Site no. : 3m Chamber Data no. : 43  
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23\*C/54%  
Engineer : Leo-Li  
EUT : 40" LCD PC  
Power rating : AC 120V/60Hz  
Test Mode : GFSK 2480MHz Tx  
M/N : INF4030



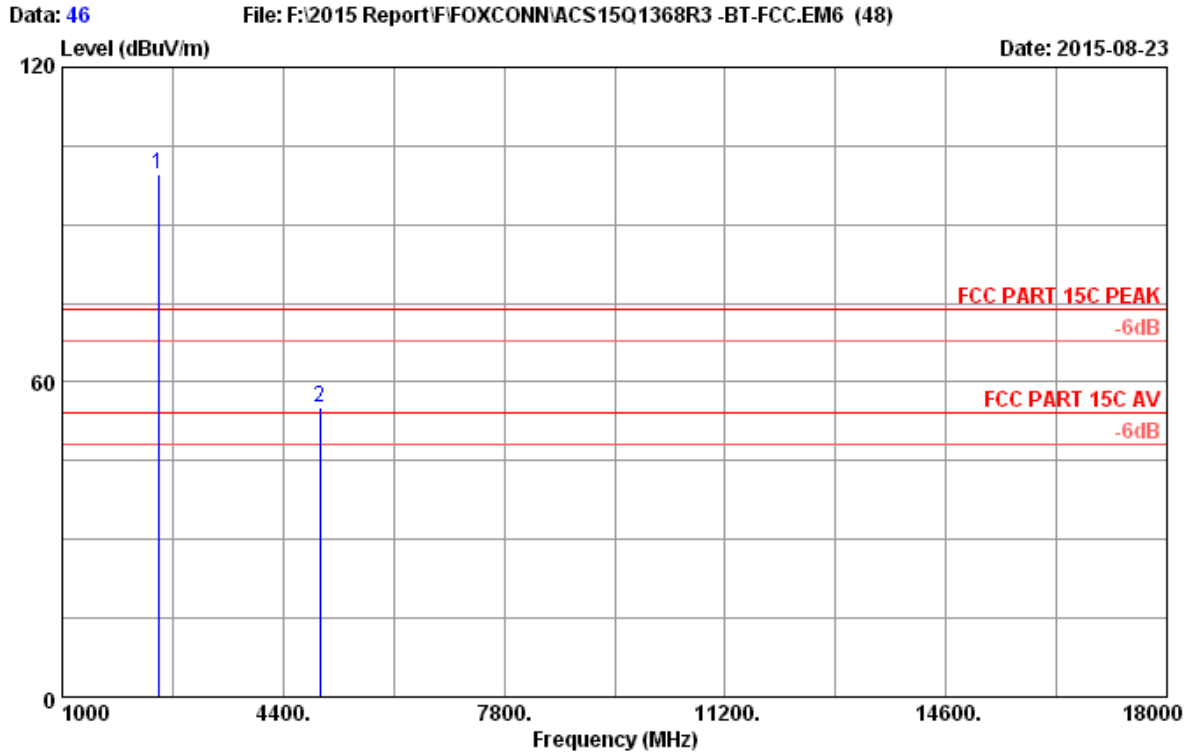
Site no. : 3m Chamber Data no. : 44  
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23\*C/54%  
 Engineer : Leo-Li  
 EUT : 40" LCD PC  
 Power rating : AC 120V/60Hz  
 Test Mode : GFSK 2480MHz Tx  
 M/N : INF4030

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.37	7.47	36.59	95.84	95.09	74.00	-21.09	Peak
2	4960.000	33.32	9.52	35.47	46.28	53.65	74.00	20.35	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 45  
Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23\*C/54%  
Engineer : Leo-Li  
EUT : 40" LCD PC  
Power rating : AC 120V/60Hz  
Test Mode : GFSK 2480MHz Tx  
M/N : INF4030



Site no. : 3m Chamber Data no. : 46  
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Leo-Li  
 EUT : 40" LCD PC  
 Power rating : AC 120V/60Hz  
 Test Mode : GFSK 2480MHz Tx  
 M/N : INF4030

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.37	7.47	36.59	100.32	99.57	74.00	-25.57	Peak
2	4960.000	33.32	9.52	35.47	47.70	55.07	74.00	18.93	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuv/m)	Conclusion
4960.000	55.07	3.31	51.76	54	Pass

## 5. CONDUCTED SPURIOUS EMISSIONS

### 5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.29,14	1Year
2.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr.28,15	1 Year
3.	RF Cable	Marvelous Microwave Inc	SFL402105FLEX	NO.1	Oct.26,14	1 Year

### 5.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

### 5.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions With peak detector.

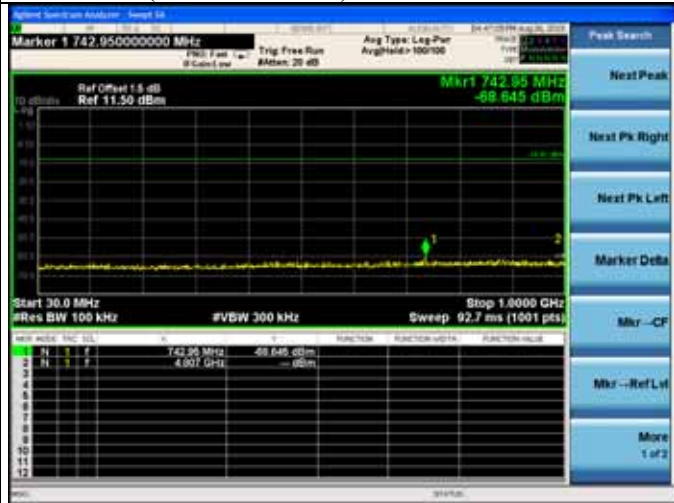
### 5.4. Test result

**PASS** (The testing data was attached in the next pages.)

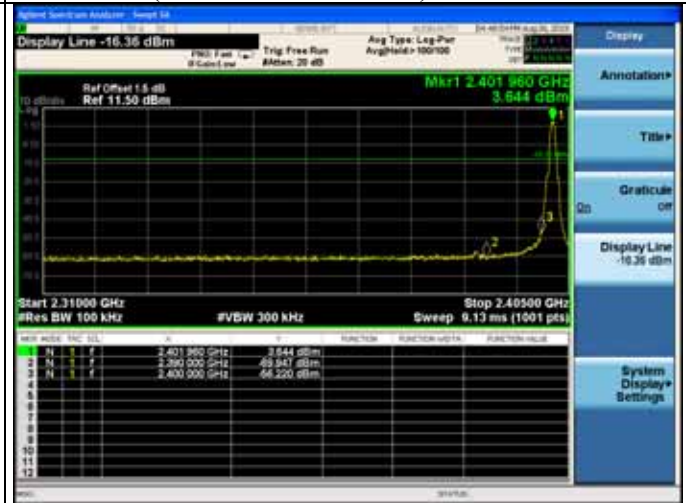


GFSK

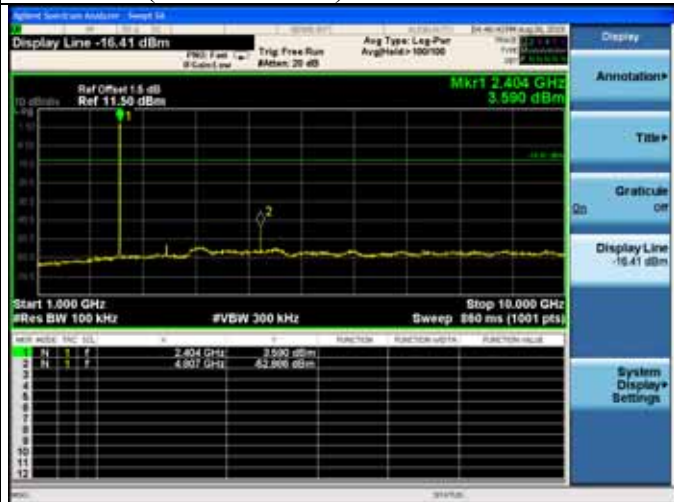
2402MHz(30MHz-1GHz)



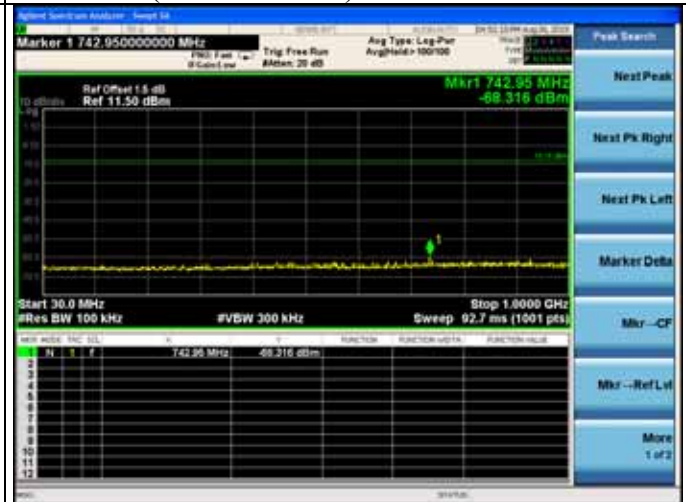
2402MHz(2.31GHz-2.405GHz)



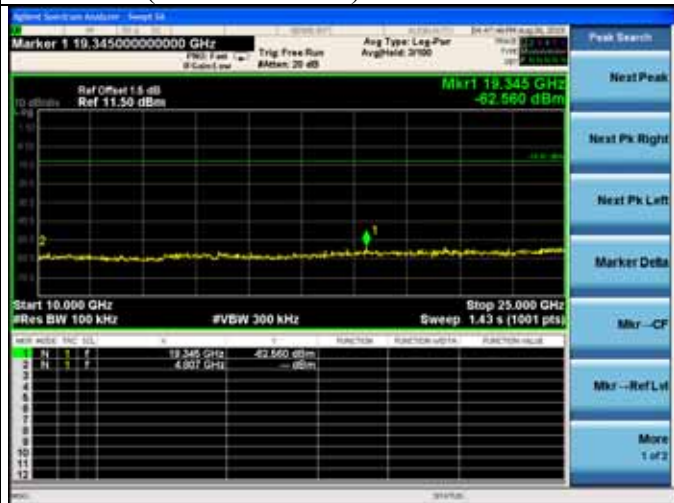
2402MHz(1GHz-10GHz)



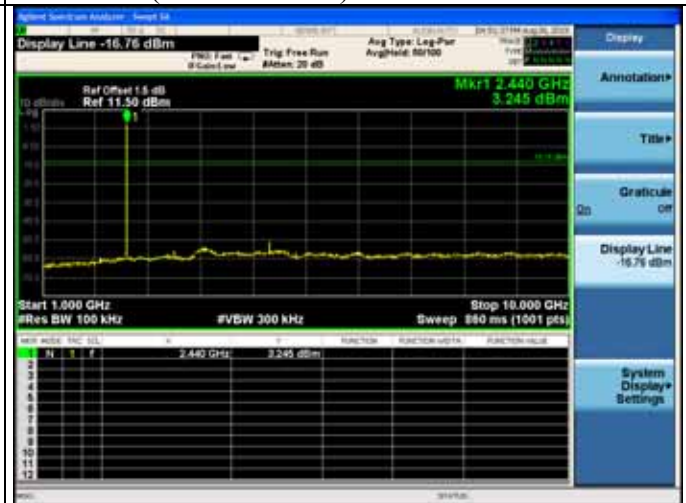
2440MHz(30MHz-1GHz)



2402MHz(10GHz-25GHz)



2440MHz(1GHz-10GHz)



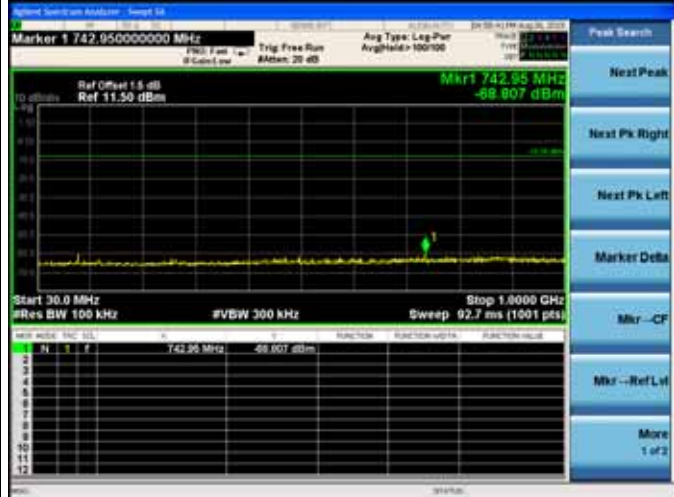
2440MHz(10GHz-25GHz)



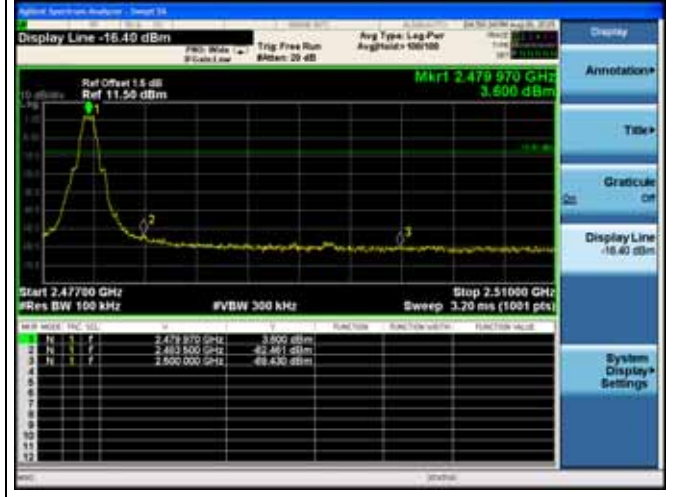
2480MHz(10GHz-25GHz)



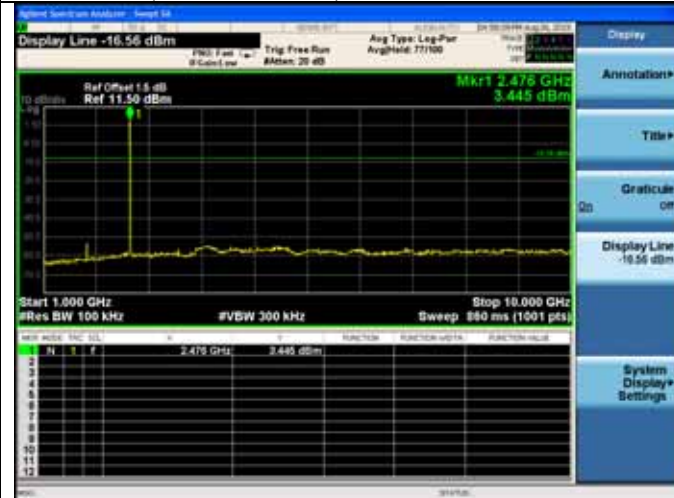
2480MHz(30MHz-1GHz)



2480MHz(2.477GHz-2.51GHz)



2480MHz(1GHz-10GHz)



## 6. 6dB BANDWIDTH TEST

### 6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.29,14	1Year
2.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr.28,15	1 Year
3.	RF Cable	Marvelous Microwave Inc	SFL402105FLEX	NO.1	Oct.26,14	1 Year

### 6.2. Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

### 6.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

### 6.4. Test Results

EUT:40'' LCD PC		
M/N: INF4030		
Test date: 2015-08-26	Pressure: 101.5±1.0kpa	Humidity:52.4±3.0%
Tested by: Leo-Li	Test site: RF site	Temperature:22.1±0.6 °C

Test Mode	Frequency (MHz)	6 dB bandwidth (kHz)	Limit (KHz)
GFSK	2402	710.6	>500
	2440	711.9	>500
	2480	715.0	>500
Conclusion : PASS			

<p><b>GFSK</b></p>	<p><b>2480MHz</b></p>																								
<p><b>2402MHz</b></p> <p>Center Freq 2.40200000 GHz          Ref Offset 1.5 dB          Ref 20.00 dBm          Center 2.402 GHz          Res BW 100 kHz          #VBW 300 kHz          Span 3 MHz          Sweep 1.533 ms          CF Step 300.000 kHz          Freq Offset 0 Hz</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>1.0843 MHz</td> <td>Total Power</td> <td>10.4 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>-31.533 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>710.6 kHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	1.0843 MHz	Total Power	10.4 dBm	Transmit Freq Error	-31.533 kHz	OBW Power	99.00 %	x dB Bandwidth	710.6 kHz	x dB	-6.00 dB	<p><b>2480MHz</b></p> <p>Center Freq 2.48000000 GHz          Ref Offset 1.5 dB          Ref 20.00 dBm          Center 2.48 GHz          Res BW 100 kHz          #VBW 300 kHz          Span 3 MHz          Sweep 1.533 ms          CF Step 300.000 kHz          Freq Offset 0 Hz</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>1.0870 MHz</td> <td>Total Power</td> <td>10.5 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>-46.398 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>715.0 kHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	1.0870 MHz	Total Power	10.5 dBm	Transmit Freq Error	-46.398 kHz	OBW Power	99.00 %	x dB Bandwidth	715.0 kHz	x dB	-6.00 dB
Occupied Bandwidth	1.0843 MHz	Total Power	10.4 dBm																						
Transmit Freq Error	-31.533 kHz	OBW Power	99.00 %																						
x dB Bandwidth	710.6 kHz	x dB	-6.00 dB																						
Occupied Bandwidth	1.0870 MHz	Total Power	10.5 dBm																						
Transmit Freq Error	-46.398 kHz	OBW Power	99.00 %																						
x dB Bandwidth	715.0 kHz	x dB	-6.00 dB																						
<p><b>2440MHz</b></p>																									
<p>Center Freq 2.44000000 GHz          Ref Offset 1.5 dB          Ref 20.00 dBm          Center 2.44 GHz          Res BW 100 kHz          #VBW 300 kHz          Span 3 MHz          Sweep 1.533 ms          CF Step 300.000 kHz          Freq Offset 0 Hz</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>1.0896 MHz</td> <td>Total Power</td> <td>10.5 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>-39.393 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>711.9 kHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>	Occupied Bandwidth	1.0896 MHz	Total Power	10.5 dBm	Transmit Freq Error	-39.393 kHz	OBW Power	99.00 %	x dB Bandwidth	711.9 kHz	x dB	-6.00 dB													
Occupied Bandwidth	1.0896 MHz	Total Power	10.5 dBm																						
Transmit Freq Error	-39.393 kHz	OBW Power	99.00 %																						
x dB Bandwidth	711.9 kHz	x dB	-6.00 dB																						

## 7. MAXIMUM PEAK OUTPUT POWER TEST

### 7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.29,14	1Year
2.	Power meter	Anritsu	ML2487A	6K00002472	Aug.21,15	1Year
3.	Power sensor	Anritsu	MA2491A	0033005	Aug.21,15	1Year
4.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr.28,15	1 Year
5.	RF Cable	Marvelous Microwave Inc	SFL402105FLEX	NO.1	Oct.26,14	1 Year

### 7.2. Limit

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm).

### 7.3. Test Procedure

Connected the EUT's antenna port to Power Sensor, and use power meter to test peak output power.

### 7.4. Test Results

EUT:40'' LCD PC			
M/N: INF4030			
Test date: 2015-08-26		Pressure: 101.5±1.0kpa	Humidity:52.4±3.0%
Tested by: Leo-Li		Test site: RF site	Temperature:22.1±0.6 °C
Test Mode	Frequency (MHz)	Peak output Power ( dBm )	Limit (dBm)
GFSK	2402	4.065	30
	2440	3.975	30
	2480	4.059	30
Conclusion: PASS			

## 8. BAND EDGE COMPLIANCE TEST

### 8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Amp	HP	8449B	3008A02495	Apr.28,15	1 Year
2.	Horn Antenna	ETS	3115	9510-4877	Sep.20,14	1 Year
3.	HF Cable	Hubersuhner	Sucoflex104	274094/4	Apr.28,15	1 Year

### 8.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

### 8.3. Test Produce

For upper band emissions that are up to two bandwidths(2MHz) away (2483.5MHz to 2485.5MHz) from the band-edge use below produce:

1. Choose a spectrum analyzer span that encompasses both the peak of the fundamental emission and the band-edge emission under investigation. Set the analyzer RBW to 100KHz and with a video bandwidth 300KHz. Record the peak levels of the fundamental emission and the relevant band-edge emission, Observe the stored trace and measure the amplitude delta between the peak of the fundamental and the peak of the band-edge emission. This is not a field strength measurement, it is only a relative measurement to determine the amount by which the emission drops at the band edge relative to the highest fundamental emission level.
2. Subtract the delta measured in step (1) from the maximum field strengths measured in clause 4 .The resultant field strengths are then used to determine band-edge compliance as required by Section 15.205

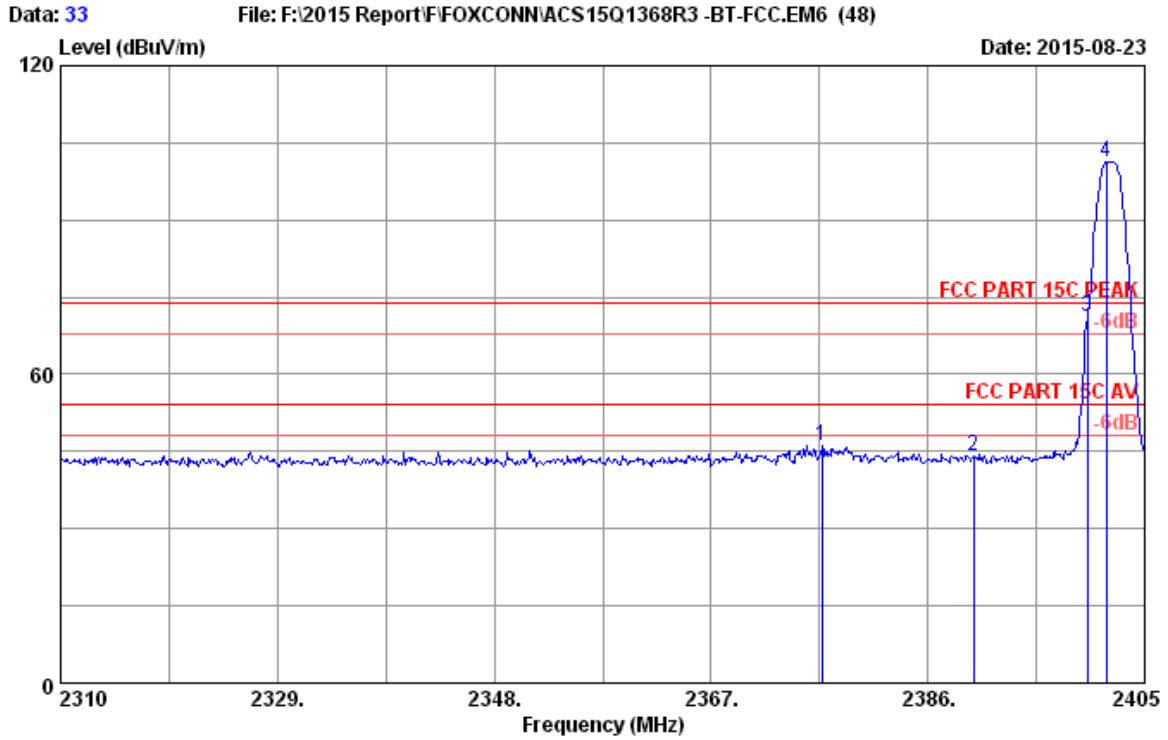
For emissions above two bandwidths away from the band-edge use below produce:

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
  - (a) PEAK: RBW=1MHz ;VBW=3MHz, PK detector, Sweep=AUTO
  - (b) This is pulse Modulation device a duty cycle factor was used to calculate average level based measured peak level.

### 8.4. Test Results

Pass (The testing data was attached in the next pages.)

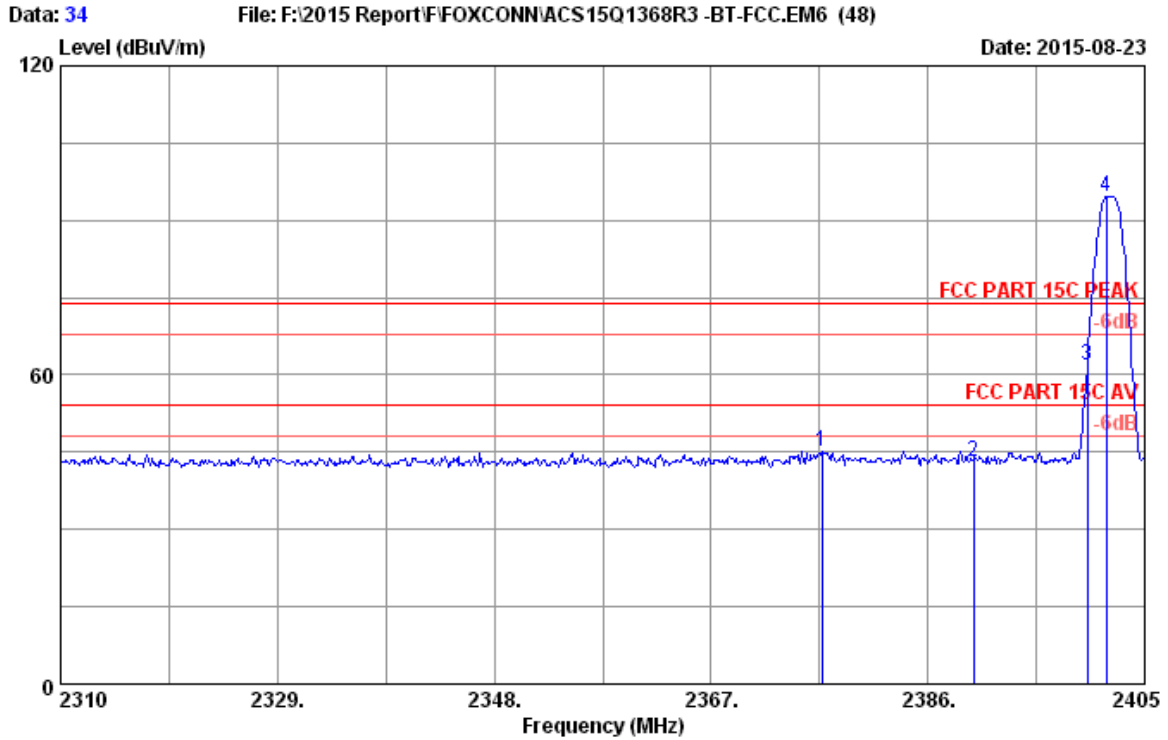
Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.



Site no. : 3m Chamber Data no. : 33  
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Leo-Li  
 EUT : 40" LCD PC  
 Power rating : AC 120V/60Hz  
 Test Mode : GFSK 2402MHz Tx  
 M/N : INF4030

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2376.690	28.22	7.28	36.63	47.11	45.98	74.00	28.02	Peak
2	2390.000	28.24	7.28	36.62	45.27	44.17	74.00	29.83	Peak
3	2400.000	28.25	7.32	36.62	72.32	71.27	74.00	2.73	Peak
4	2401.675	28.26	7.32	36.62	102.42	101.38	74.00	-27.38	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

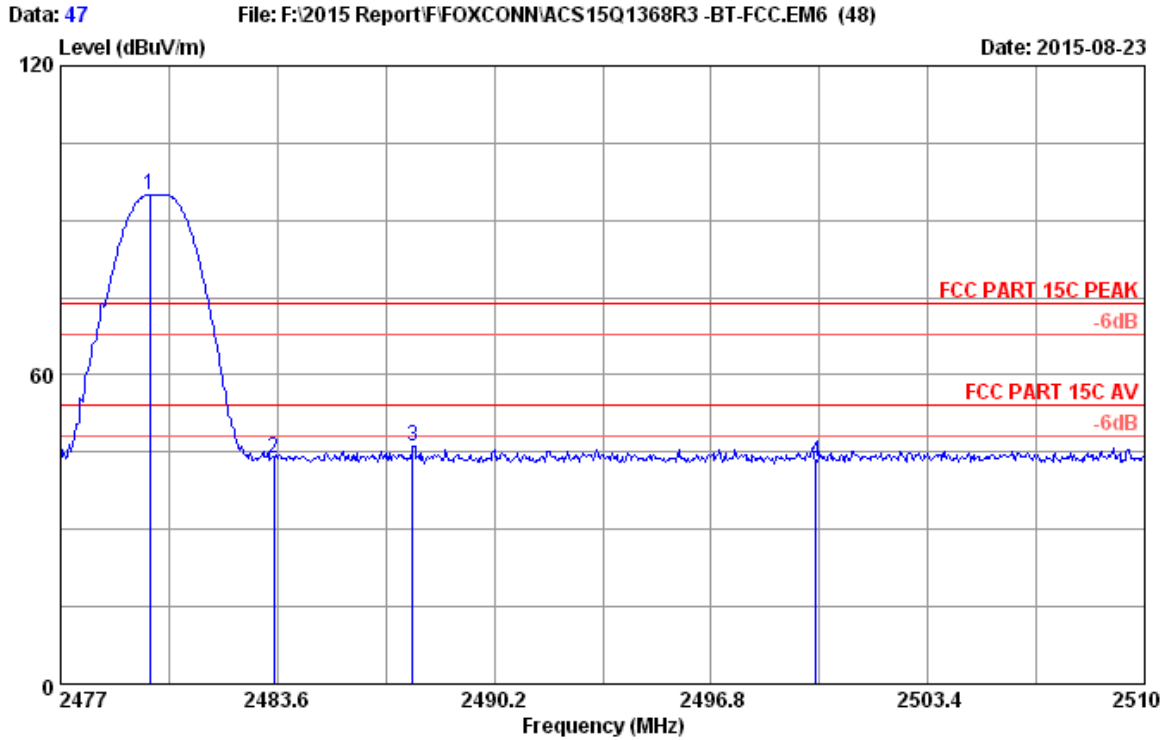


Site no. : 3m Chamber Data no. : 34  
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Leo-Li  
 EUT : 40" LCD PC  
 Power rating : AC 120V/60Hz  
 Test Mode : GFSK 2402MHz Tx  
 M/N : INF4030

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2376.690	28.22	7.28	36.63	46.41	45.28	74.00	28.72	Peak
2	2390.000	28.24	7.28	36.62	44.14	43.04	74.00	30.96	Peak
3	2400.000	28.25	7.32	36.62	62.89	61.84	74.00	12.16	Peak
4	2401.675	28.26	7.32	36.62	95.68	94.64	74.00	-20.64	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

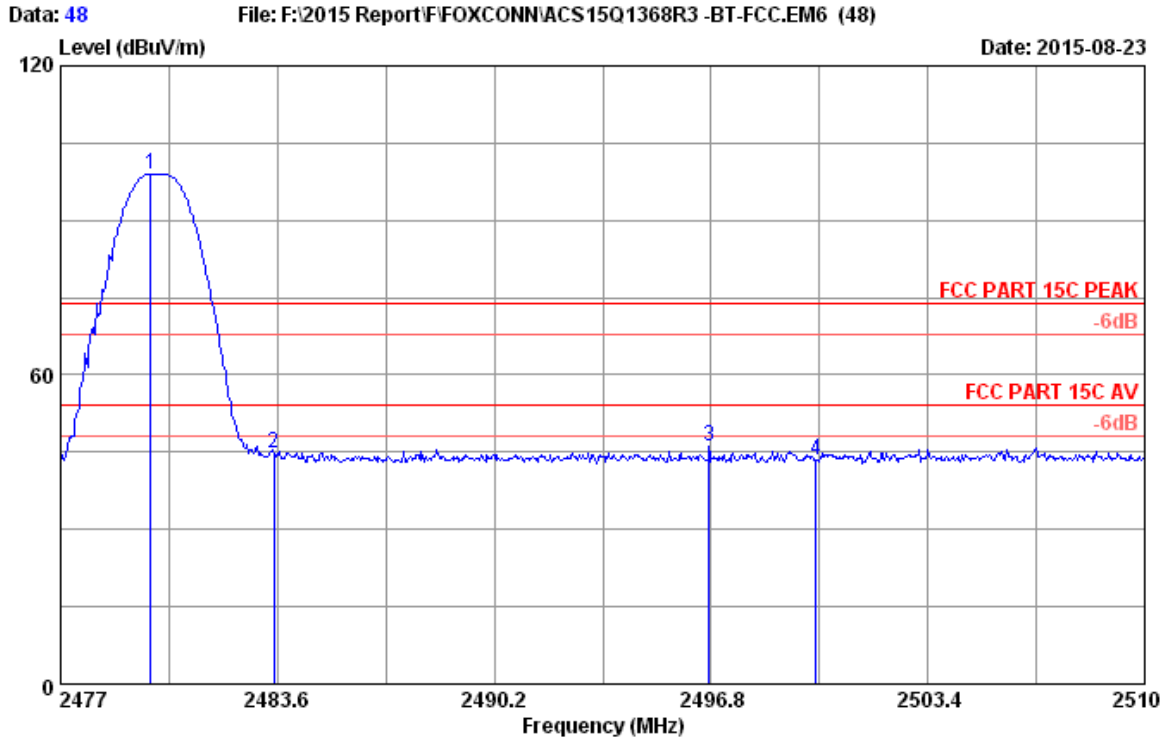




Site no. : 3m Chamber Data no. : 47  
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Leo-Li  
 EUT : 40" LCD PC  
 Power rating : AC 120V/60Hz  
 Test Mode : GFSK 2480MHz Tx  
 M/N : INF4030

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.706	28.37	7.47	36.59	95.75	95.00	74.00	-21.00	Peak
2	2483.500	28.38	7.51	36.59	44.60	43.90	74.00	30.10	Peak
3	2487.725	28.38	7.51	36.58	46.73	46.04	74.00	27.96	Peak
4	2500.000	28.40	7.51	36.58	43.93	43.26	74.00	30.74	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 48  
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54%  
 Engineer : Leo-Li  
 EUT : 40" LCD PC  
 Power rating : AC 120V/60Hz  
 Test Mode : GFSK 2480MHz Tx  
 M/N : INF4030

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.739	28.37	7.47	36.59	99.70	98.95	74.00	-24.95	Peak
2	2483.500	28.38	7.51	36.59	45.34	44.64	74.00	29.36	Peak
3	2496.734	28.40	7.51	36.58	46.92	46.25	74.00	27.75	Peak
4	2500.000	28.40	7.51	36.58	44.25	43.58	74.00	30.42	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor  
 2. The emission levels that are 20dB below the official limit are not reported.

## 9. POWER SPECTRAL DENSITY TEST

### 9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
2.	Spectrum	Agilent	N9030A	MY51380221	Oct.29,14	1 Year
4.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr.28,15	1 Year
5	RF Cable	Marvelous Microwave Inc	SFL402105FLEX	NO.1	Oct.26,14	1 Year

### 9.2. Limit

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

### 9.3. Test Procedure

1. Connected the EUT's antenna port to spectrum analyzer device by 20dB attenuator.
2. Set the test frequency as center frequency, Set RBW=3KHz,VBW=10KHz,Span large enough capture the entire frequency, Read out maximum peak level frequency
3. Set the span to 1.5 times of the DTS Bandwidth Detector= Peak; Sweep time= Auto Couple; Trace Mode= Max hold.
4. Allow trace to fully stabilize use the peak marker function to determine the maximum amplitude level within the RBW.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude

### 9.4. Test Results

EUT:40'' LCD PC		
M/N: INF4030		
Test date: 2015-09-06	Pressure: 101.5±1.0kpa	Humidity:52.4±3.0%
Tested by: Leo-Li	Test site: RF site	Temperature:22.1±0.6 °C

Test Mode	Frequency (MHz)	Power density ( dBm/3KHz )	Limit (dBm/3KHz)
GFSK	2402	-9.307	8
	2440	-9.636	8
	2480	-9.272	8
Conclusion : PASS			

**GFSK**

2402MHz



2480MHz



2440MHz



## **10. ANTENNA REQUIREMENT**

### **10.1. Standard Applicable**

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### **10.2. ANTENNA CONNECTED CONSTRUCTION**

The antennas used for this product are PIFA antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 2.63dBi.

## 11. DEVIATION TO TEST SPECIFICATIONS

[NONE]