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Report No.: 1705TW0702-U1  
Report Version: 1.0  
Issue Date: 2017-06-09

## MEASUREMENT REPORT (Class II Change)

FCC PART 15.247 WLAN 802.11b/g/n

**FCC ID:** 2AKWYPFB201

**APPLICANT:** DynaScan Technology Corp.

**Application Type:** Certification

**Product:** Control Board

**Model No.:** PFB201

**Host Product Number:** Liquid crystal display devices

**Host Model No.:** DS552LT4-1

**Brand Name:** **DynaScan**

**FCC Classification:** (DTS) Digital Transmission System

**FCC Rule Part(s):** Part 15.247

**Test Procedure(s):** ANSI C63.10-2013, KDB 558074 D01v04

KDB 996369 D01 v01r04

**Test Date:** June 2~9, 2017

**Test By** : *kevin ker*  
(Keven Ker )

**Reviewed By** : *Paddy Chen*  
( Paddy Chen )

**Approved By** : *Chenz ker*  
( Chenz Ker )



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 558074 D01v04. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

## Revision History

Report No.	Version	Description	Issue Date	Note
1705TW0702-U1	1.0	Original Report	2017-06-09	

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## §2.1033 General Information

<b>Applicant</b>	DynaScan Technology Corp.			
<b>Applicant Address</b>	7F, 66 Huaya 1st Road, Guishan, Taoyuan 33383, Taiwan			
<b>Manufacturer</b>	DynaScan Technology Corp.			
<b>Manufacturer Address</b>	7F, 66 Huaya 1st Road, Guishan, Taoyuan 33383, Taiwan			
<b>Test Site</b>	MRT Technology (Taiwan) Co., Ltd			
<b>Test Site Address</b>	No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)			
<b>MRT FCC Registration No.</b>	291082			
<b>FCC Rule Part(s)</b>	Part 15.247			
<b>Model No.</b>	PFB201			
<b>Test Device Serial No.</b>	N/A	<input type="checkbox"/> Production	<input checked="" type="checkbox"/> Pre-Production	<input type="checkbox"/> Engineering

## Test Facility / Accreditations

1. MRT facility is a FCC registered ( Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Film.
2. MRT facility is an IC registered (MRT Reg. No. 21723-1) test laboratory with the site description on file at Industry Canada.
3. MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC, Industry Taiwan, EU and TELEC Rules.

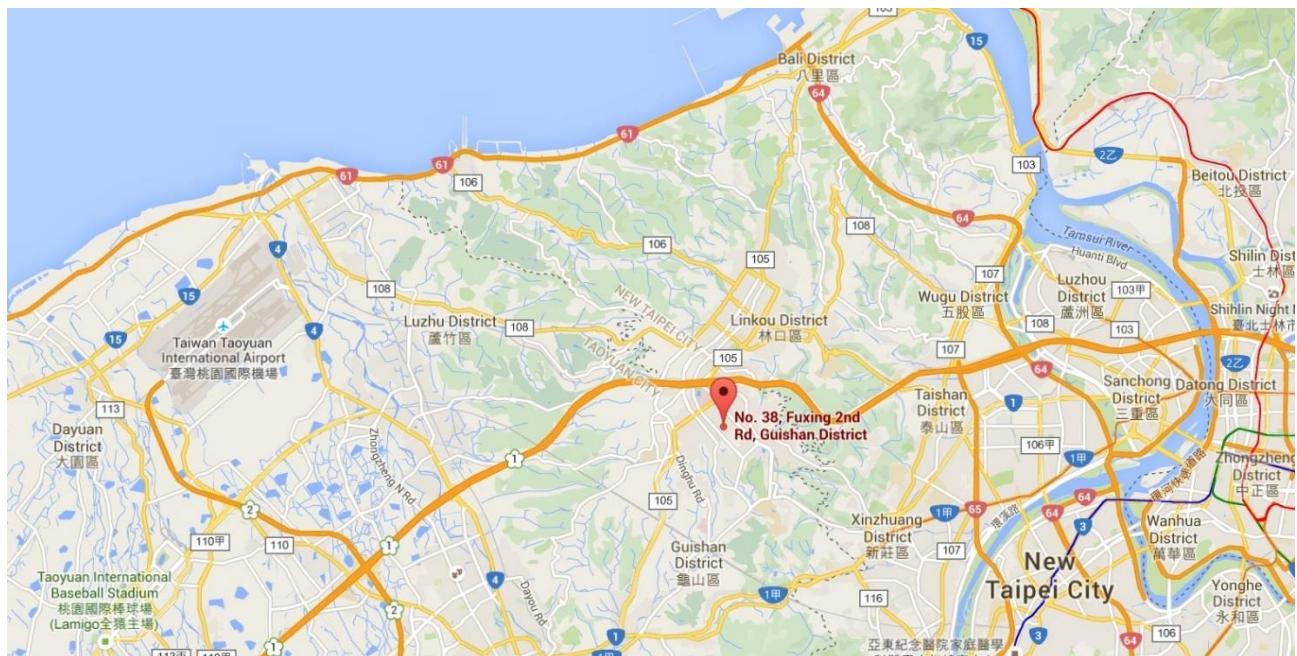
## 1. INTRODUCTION

### 1.2. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

### 1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taoyuan City. These measurement tests were conducted at the MRT Technology (Taiwan) Co., Ltd. Facility located at No.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C).



## 2. PRODUCT INFORMATION

### 2.1. Equipment Description

Product Name	Liquid crystal display devices
Model No.	PFB201
Brand Name	<b>DynaScan</b>
Supports Radios Spec.	WLAN : 2.4G : 802.11b/g/n-20/n-40
Wi-Fi Specification	802.11b/g/n
Frequency Range	<b>2.4GHz:</b> For 802.11b/g/n-20M: 2412 ~ 2462 MHz For 802.11n-40M: 2422 ~ 2452 MHz
2.4GHz Maximum Output Peak Power	802.11b: 17.82 dBm 802.11g: 22.76 dBm 802.11n-20M: 21.97 dBm 802.11n-40M: 21.95 dBm
Type of Modulation	802.11b: DSSS, DBPSK, DQPSK, CCK 802.11g/n-20M/n-40M: OFDM ( BPSK, QPSK, 16QAM, 64QAM )

Note: Base on limit module PFB201 (Grant Date : 02/17/2017, FCC ID : 2AKWYPFB201), Since add new host, so the C2PC (Radiated Spurious Emission & AC Line Conducted Emission) is executed.

Host Product Number: Liquid crystal display devices;

Host Model Number : DS552LT4-1

## 2.2. Working Frequencies for this Report

802.11b/g/n-20M

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz	--	--

802.11n-40M

Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz
06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	--	--	--	--

## 2.3. Test Mode

Test Mode	Mode 1: Transmit by 802.11b
	Mode 2: Transmit by 802.11g
	Mode 3: Transmit by 802.11n-20M
	Mode 4: Transmit by 802.11n-40M

## 2.4. Test Software

The test utility software used during testing was “REALTEK WLAN Test\_V1.9.0”.

## **2.5. Test Configuration**

This device was tested per the guidance of KDB 558074 D01v04. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

## **2.6. EMI Suppression Device(s)/Modifications**

No EMI suppression device(s) were added and/or no modifications were made during testing.

## **2.7. Labeling Requirements**

### Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

### 3. DESCRIPTION of TEST

#### 3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 558074 D01v04 were used in the measurement of this device.

**Deviation from measurement procedure.....**.....**None**

#### 3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 9'x4'x3' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment which determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

Line conducted emissions test results are shown in Section 7.5.

### 3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, which produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

Radiated emissions test results are shown in Section 7.3 & 7.4 .

## 4. ANTENNA REQUIREMENTS

### Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antenna is permanently attached.
- There are no provisions for connection to an external antenna.

### **Conclusion:**

This device unit complies with the requirement of §15.203.

#### Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Walsin	WE9G650002	Metal	0.87 dBi

## 5. TEST EQUIPMENT CALIBRATION DATE

### Conducted Emissions – SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2018/03/16
Two-Line V-Network	R&S	ENV216	MRTTWA00019	1 year	2018/03/15
Two-Line V-Network	R&S	ENV216	MRTTWA00020	1 year	2018/04/18
Cable	Rosnol	N1C50-RG400-B 1C50-500CM	MRTTWE00013	1 year	2018/05/19

### Radiated Emissions – AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2018/03/16
Broadband TRILOG Antenna	Schwarzbeck	VULB 9162	MRTTWA00001	1 year	2018/05/14
Acitive Loop Antenna	Schwarzbeck	FMZB 1519B	MRTTWA00002	1 year	2018/04/13
Broadband Horn antenna	Schwarzbeck	BBHA 9120D	MRTTWA00003	1 year	2018/04/17
Breitband Hornantenna	Schwarzbeck	BBHA 9170	MRTTWA00004	1 year	2018/04/24
Broadband Preamplifier	Schwarzbeck	BBV 9718	MRTTWA00005	1 year	2018/04/19
Broadband Amplifier	Schwarzbeck	BBV 9721	MRTTWA00006	1 year	2018/04/24
Signal Analyzer	R&S	FSV40	MRTTWA00007	1 year	2018/03/16
Cable	HUBERSUHNER	SF106	MRTTWA00010	1 year	2018/05/19
Cable	Rosnol	K1K50-UP0264-K1K50-4M	MRTTWA00012	1 year	2018/05/19

### Conducted Test Equipment – SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2017/07/10
USB Wideband Power Sensor	KEYSIGHT	U2021XA	MRTTWA00014	1 year	2018/04/19

Software	Version	Function
e3	9.160520a	EMI Test Software
EMI	V3	EMI Test Software

## 6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

AC Conducted Emission Measurement – SR2
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_{c(y)}$ ): 150kHz~30MHz: 2.42dB
Conducted Measurement– SR1
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_{c(y)}$ ): 1.3dB
Radiated Emission Measurement – AC1
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_{c(y)}$ ): Horizontal: 9K~30MHz: 4.14dB 30MHz~1GHz: 4.22dB 1GHz~40GHz: 4.05dB Vertical: 9K~30MHz: 4.14dB 30MHz~1GHz: 3.37dB 1GHz~40GHz: 4.08dB

## 7. TEST RESULT

### 7.1. Summary

**Product Name:** Liquid crystal display devices  
**FCC Classification:** (DTS) Digital Transmission System  
**Data Rate(s) Tested:** 1Mbps ~ 11Mbps (b); 6Mbps ~ 54Mbps (g);  
6.5/7.2Mbps ~ 65/72.2Mbps (n-20M);  
13.5/15.0Mbps ~ 135/150Mbps (n-40M)

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	6dB Bandwidth	$\geq 500\text{kHz}$	Conducted	N/A	N/A
15.247(b)(3)	Output Power	$\leq 30.00\text{dBm}$		Pass	Section 7.2
15.247(e)	Power Spectral Density	$\leq 8.00\text{dBm}/3\text{kHz}$		N/A	N/A
15.247(d)	Out-of-Band Emissions	Conducted $\geq 20\text{dBc}$		N/A	N/A
15.205 15.209	Spurious Emission	< FCC 15.209 limits	Radiated	Pass	Section 7.3
15.205 15.209	Band Edge Measurement	$\leq 74\text{dBuV/m(Peak)}$ $\leq 54\text{dBuV/m(Average)}$		Pass	Section 7.4
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 7.5

#### Notes:

- 1) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 2) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.

## 7.2. Output Power Measurement

### 7.2.1. Test Limit

The maximum out power shall be less 1 Watt (30dBm).

### 7.2.2. Test Procedure Used

KDB 558074 D01v04 - Section 9.1.2 & 9.2.3.2

### 7.2.3. Test Setting

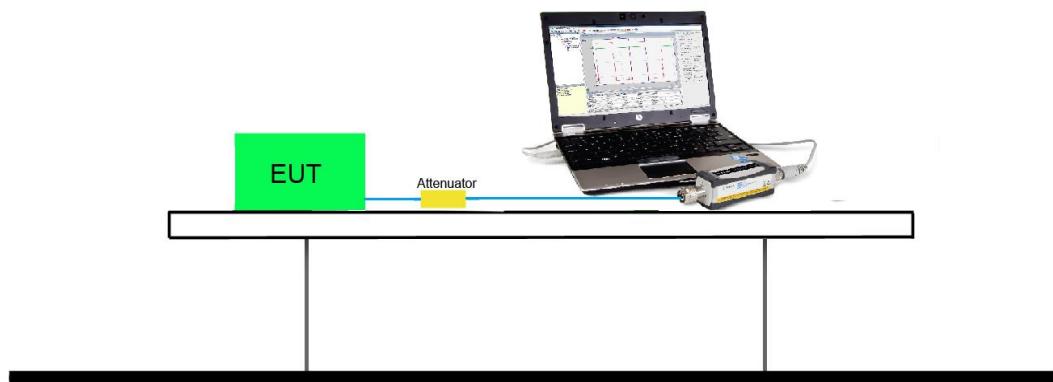
#### Peak Power Measurement

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

#### Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

### 7.2.4. Test Setup



### 7.2.5. Test Result of Output Power

2.4GHz 802.11b RF Output Power (dBm)										
Channel No.	Frequency (MHz)	Average Power For different Data Rate (Mbps)							Peak Power	Required Limit
		1	2	5.5	11					
01	2412	15.42	--	--	--				17.51	1Watt= 30 dBm
06	2437	15.59	15.82	15.76	15.73				17.82	1Watt= 30 dBm
11	2462	15.73	--	--	--				17.55	1Watt= 30 dBm
2.4GHz 802.11g RF Output Power (dBm)										
Channel No.	Frequency (MHz)	Average Power For different Data Rate (Mbps)							Peak Power	Required Limit
		6	9	12	18	24	36	48		
01	2412	13.67	--	--	--	--	--	--	22.51	1Watt= 30 dBm
06	2437	13.71	13.74	13.63	13.68	13.68	13.71	13.57	22.25	1Watt= 30 dBm
11	2462	13.93	--	--	--	--	--	--	22.76	1Watt= 30 dBm
2.4GHz 802.11n-20M RF Output Power (dBm)										
Channel No.	Frequency (MHz)	Average Power For different Data Rate (Mbps)							Peak Power	Required Limit
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6		
01	2412	13.12	--	--	--	--	--	--	21.65	1Watt= 30 dBm
06	2437	13.11	12.91	12.89	12.97	12.87	12.89	12.90	21.81	1Watt= 30 dBm
11	2462	13.24	--	--	--	--	--	--	21.97	1Watt= 30 dBm
2.4GHz 802.11n-40M RF Output Power (dBm)										
Channel No.	Frequency (MHz)	Average Power For different Data Rate (Mbps)							Peak Power	Required Limit
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6		
03	2422	12.81	--	--	--	--	--	--	21.95	1Watt= 30 dBm
06	2437	12.87	12.81	12.70	12.72	12.71	12.70	12.76	21.16	1Watt= 30 dBm
09	2452	12.83	--	--	--	--	--	--	21.38	1Watt= 30 dBm

Note: Output power =Reading value on power meter + cable loss °

### 7.3. Radiated Spurious Emission Measurement

#### 7.3.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

#### 7.3.2. Test Procedure Used

KDB 558074 D01v04- Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v04- Section 12.2.4 (peak power measurements)

KDB 558074 D01v04- Section 12.2.5 (average power measurements)

### 7.3.3. Test Setting

#### Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

**Table 1 - RBW as a function of frequency**

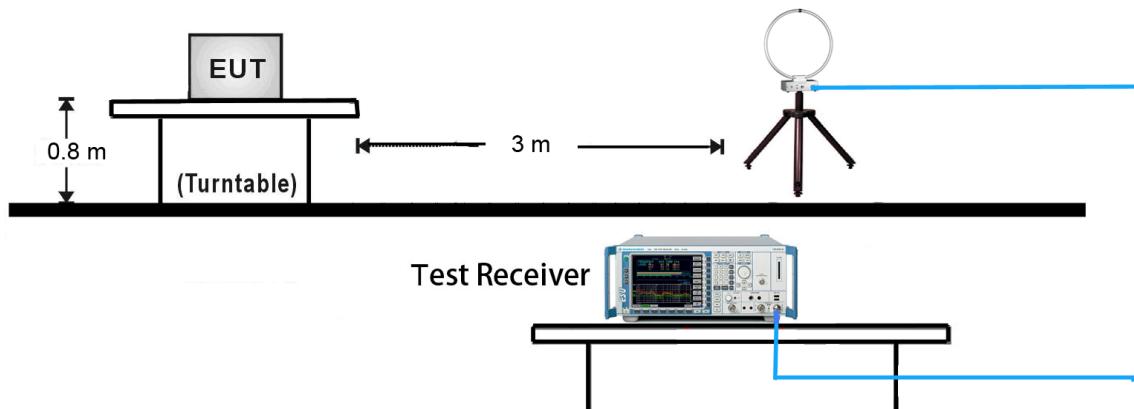
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

### **Average Field Strength Measurements**

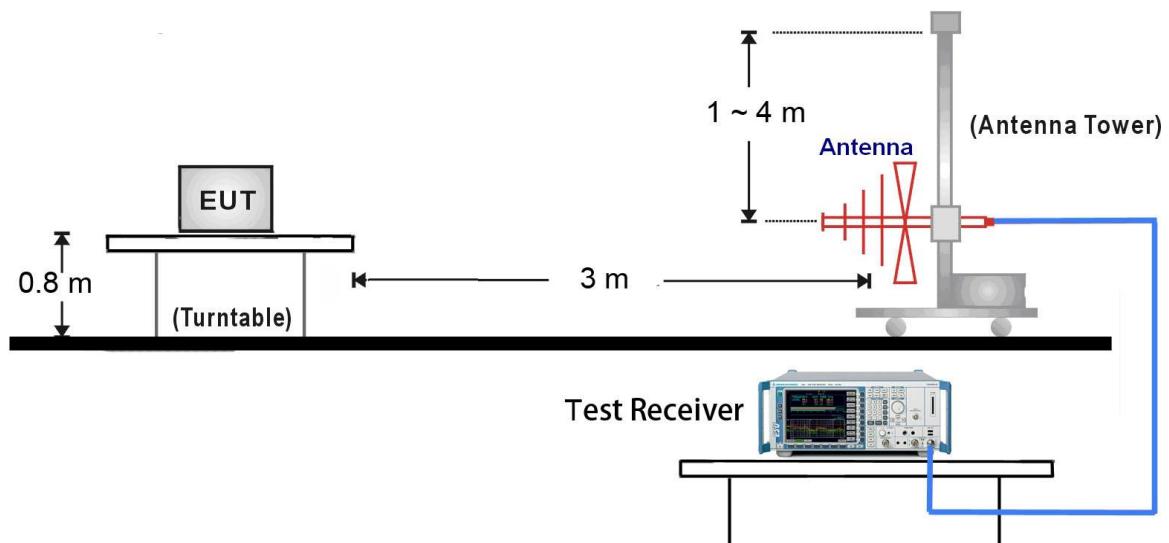
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW  $\geq 1/T$
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

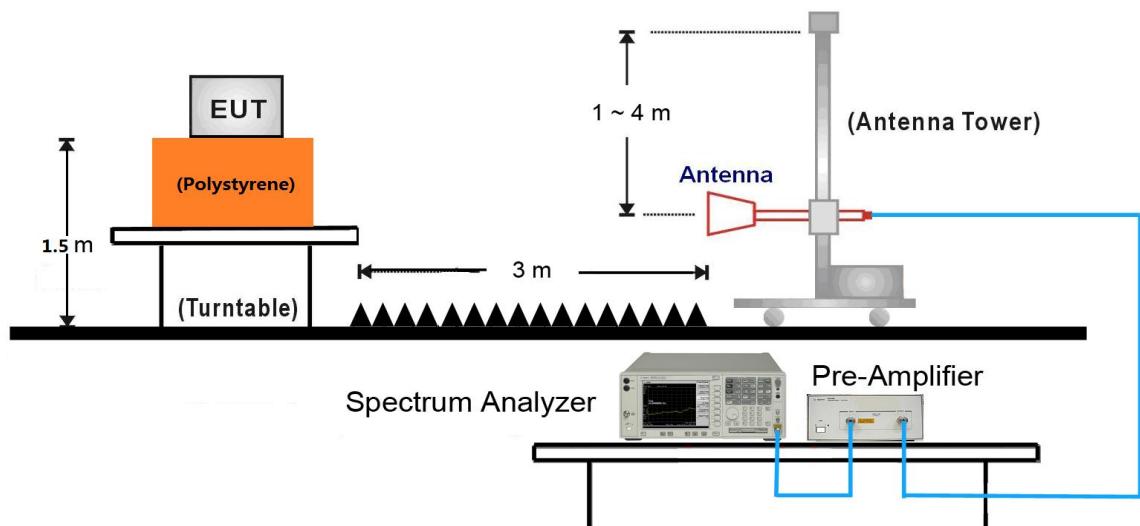
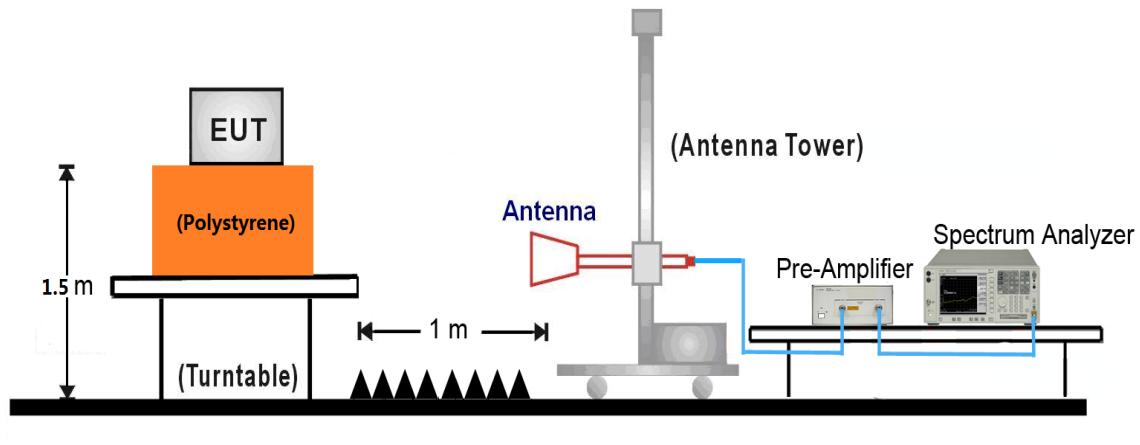
#### 7.3.4. Test Setup

##### 9kHz ~ 30MHz Test Setup:



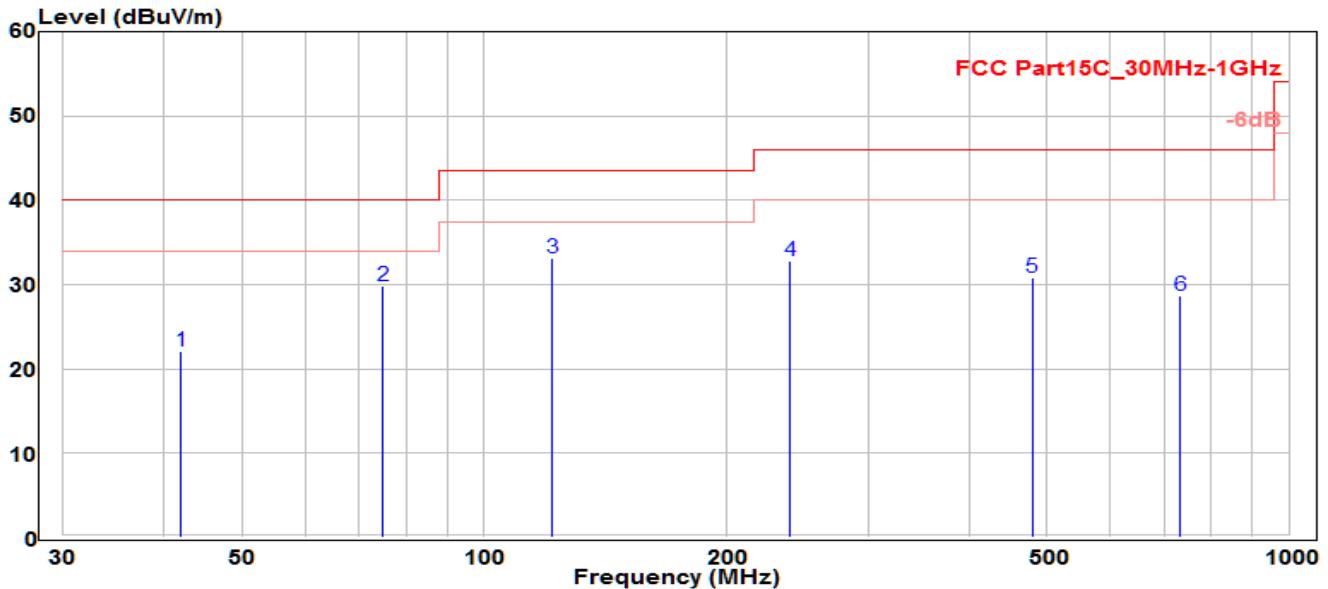
##### 30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:

18GHz ~25GHz Test Setup:


### 7.3.5. Test Result

EUT	Liquid crystal display devices	Test Date	2017/06/03
Factor	VULB 9162 (30MHz~8GHz)	Temp. / Humidity	24°C / 59%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE3-CH06	Test Voltage	AC 120V/60Hz

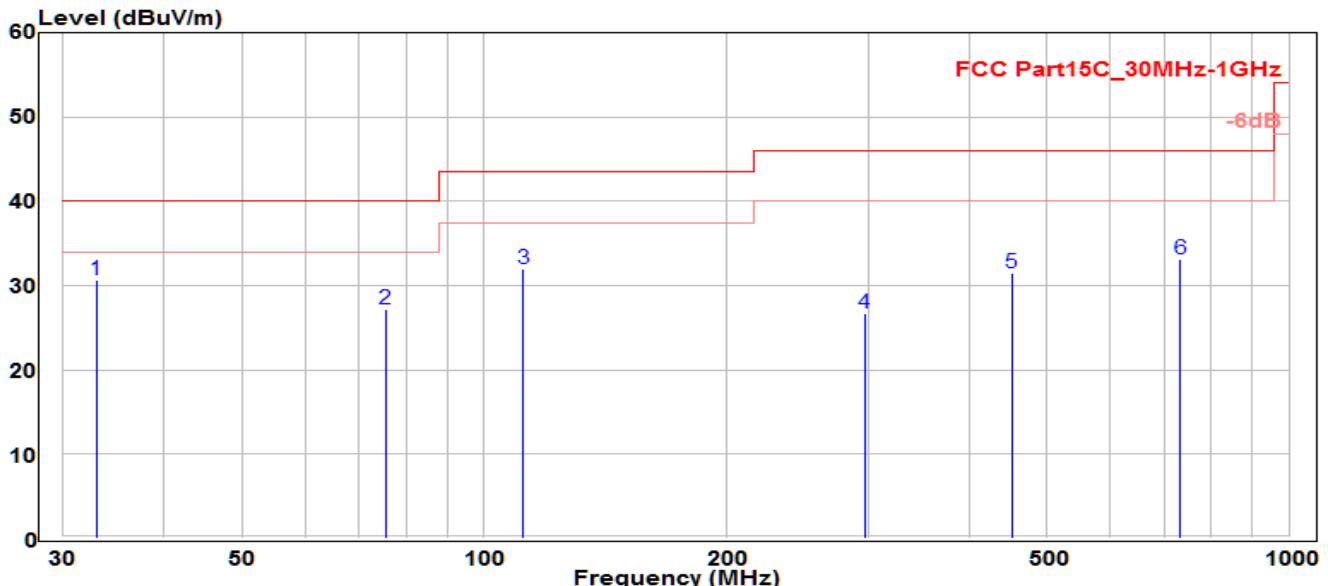


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		42.004	7.69	14.36	22.05	-17.95	40	100	200	QP
2	*	74.863	20.59	9.3	29.89	-10.11	40	120	300	QP
3		121.453	22.14	11.03	33.17	-10.33	43.5	150	60	QP
4		240.035	19.24	13.58	32.82	-13.18	46	100	170	QP
5		480.05	12.66	18.24	30.9	-15.1	46	130	-20	QP
6		732.189	6.45	22.31	28.76	-17.24	46	200	400	QP

Note :

1. " \* " means the worst value in this measurement data °
2. Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °
3. Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °
4. The emission levels of other frequencies are very lower than the limit and not show in test report °
5. Other channel mode was also verified. The test results shown represent the worst case emissions °
6. No emission found between lowest internal used/generated frequency to 30MHz °

EUT	Liquid crystal display devices	Test Date	2017/06/03
Factor	VULB 9162 (30MHz~8GHz)	Temp. / Humidity	24°C / 59%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE3-CH06	Test Voltage	AC 120V/60Hz

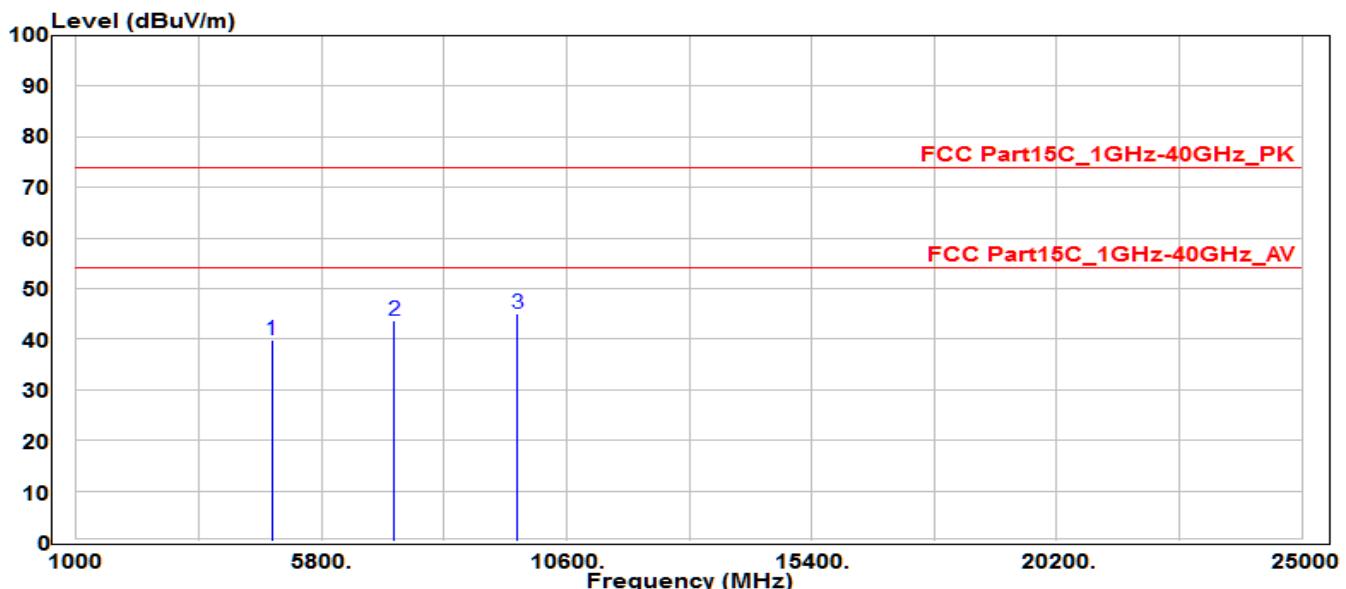


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	33.001	18.46	12.26	30.72	-9.28	40	100	400	QP
2		75.408	17.96	9.23	27.19	-12.81	40	120	300	QP
3		111.783	19.24	12.79	32.03	-11.47	43.5	150	200	QP
4		297.053	12.07	14.69	26.76	-19.24	46	200	200	QP
5		452.011	13.81	17.69	31.5	-14.5	46	120	50	QP
6		732.159	10.83	22.31	33.14	-12.86	46	160	-10	QP

Note :

1. " \* " means the worst value in this measurement data °
2. Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °
3. Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °
4. The emission levels of other frequencies are very lower than the limit and not show in test report °
5. Other channel mode was also verified. The test results shown represent the worst case emissions °
6. No emission found between lowest internal used/generated frequency to 30MHz °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE1-CH01	Test Voltage	AC 120V/60Hz

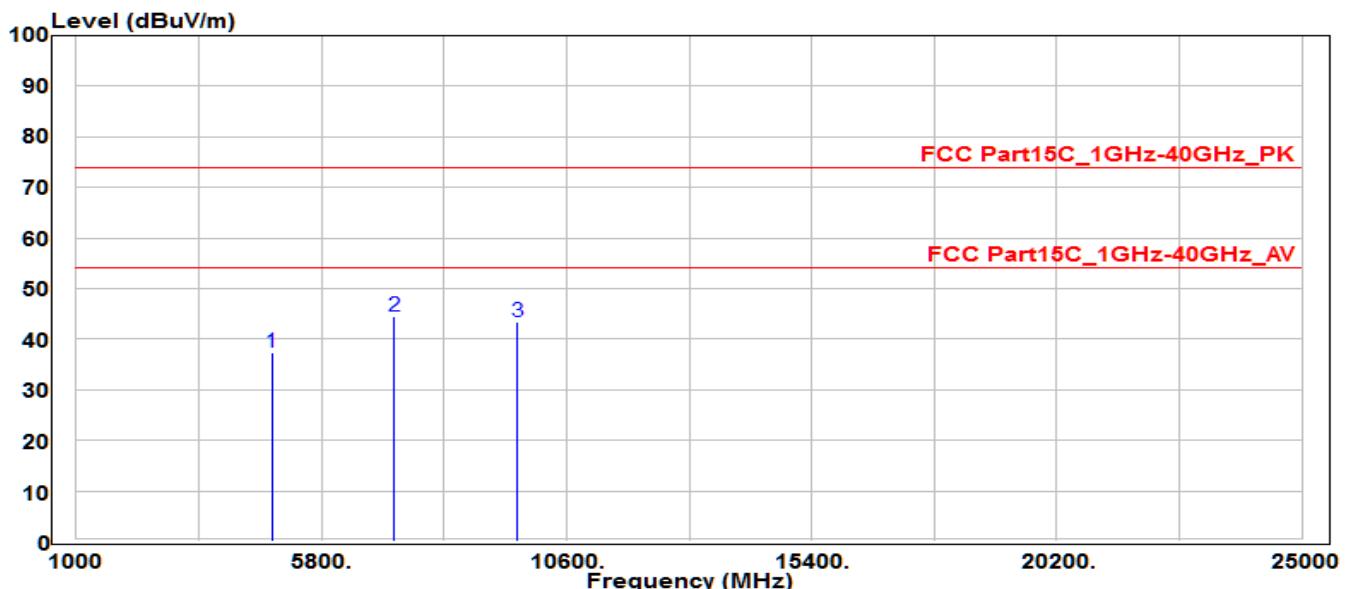


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4824	36.26	3.67	39.93	-34.07	74	100	400	Peak
2		7236	31.41	12.19	43.6	-30.4	74	100	400	Peak
3	*	9648	29.36	15.67	45.03	-28.97	74	100	400	Peak

Note :

- " \* " means the worst value in this measurement data °.
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °.
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °.
- The emission levels of other frequencies are very lower than the limit and not show in test report °.

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE1-CH01	Test Voltage	AC 120V/60Hz

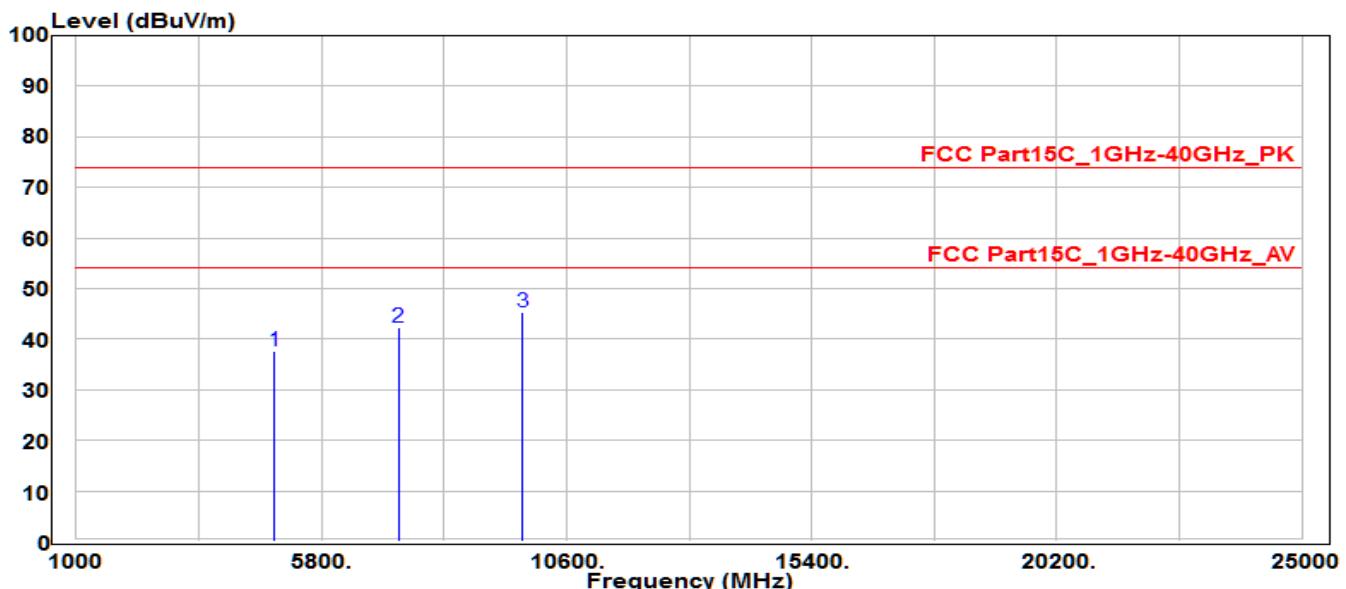


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4824	33.79	3.67	37.46	-36.54	74	100	400	Peak
2	*	7236	32.26	12.19	44.45	-29.55	74	100	400	Peak
3		9648	27.88	15.67	43.55	-30.45	74	100	400	Peak

Note :

- " \* " means the worst value in this measurement data °.
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °.
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °.
- The emission levels of other frequencies are very lower than the limit and not show in test report °.

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE1-CH06	Test Voltage	AC 120V/60Hz

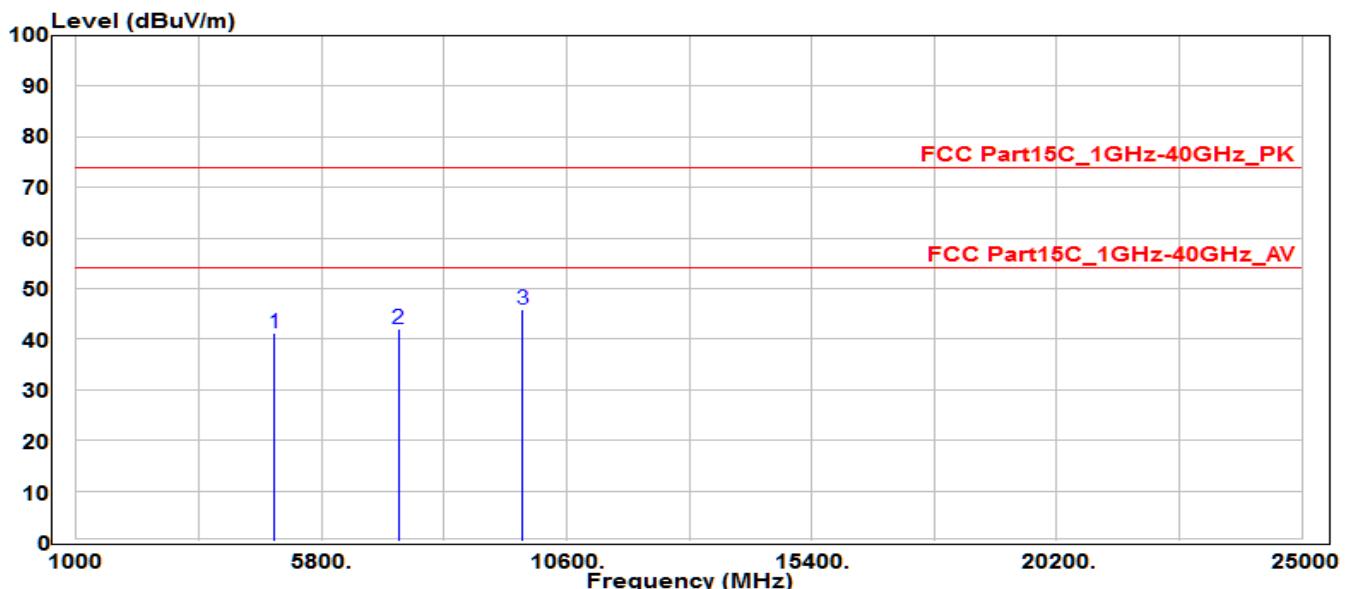


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4874	34.04	3.65	37.69	-36.31	74	100	400	Peak
2		7311	29.95	12.34	42.29	-31.71	74	100	400	Peak
3	*	9748	29.33	16.02	45.35	-28.65	74	100	400	Peak

Note :

- " \* " means the worst value in this measurement data °.
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °.
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °.
- The emission levels of other frequencies are very lower than the limit and not show in test report °.

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE1-CH06	Test Voltage	AC 120V/60Hz

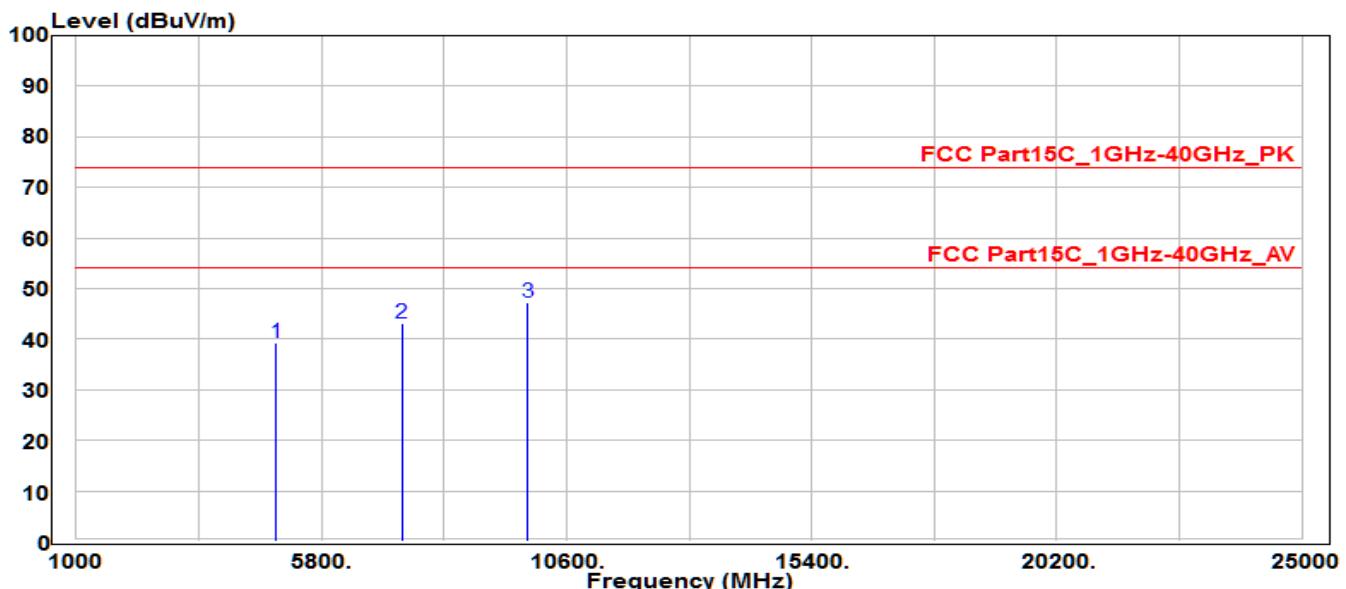


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4874	37.57	3.65	41.22	-32.78	74	100	400	Peak
2		7311	29.84	12.34	42.18	-31.82	74	100	400	Peak
3	*	9748	29.86	16.02	45.88	-28.12	74	100	400	Peak

Note :

1. " \* " means the worst value in this measurement data °.
2. Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °.
3. Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °.
4. The emission levels of other frequencies are very lower than the limit and not show in test report °.

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE1-CH11	Test Voltage	AC 120V/60Hz

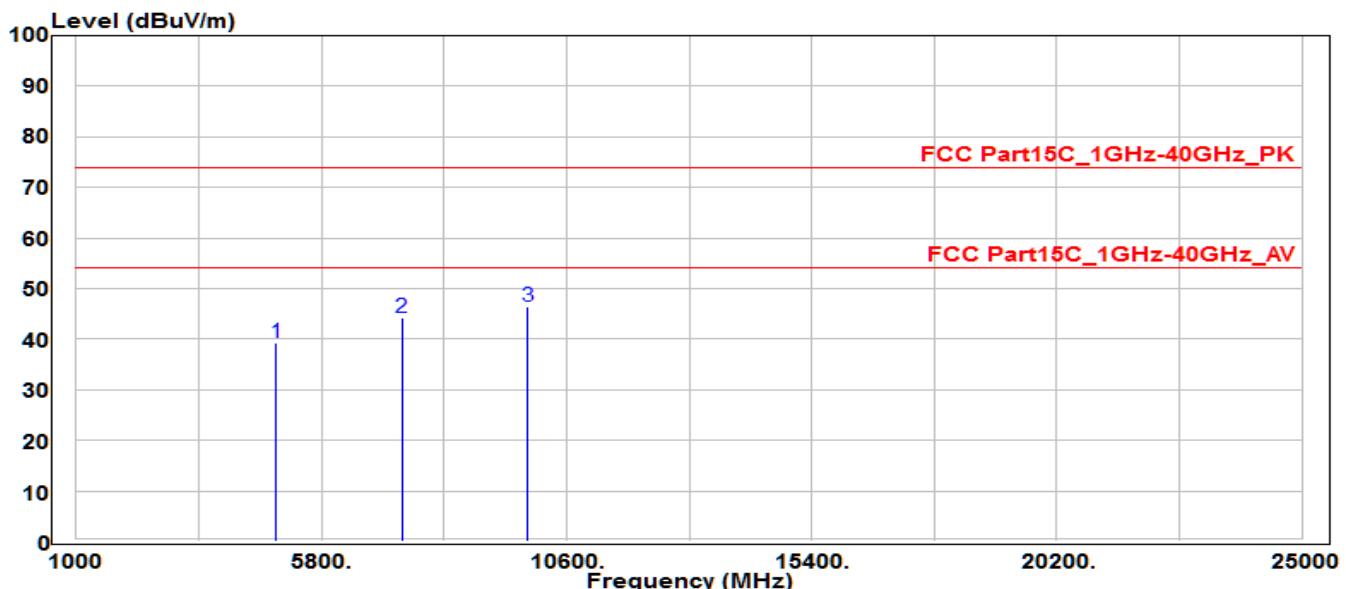


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4924	35.76	3.65	39.41	-34.59	74	100	400	Peak
2		7386	30.52	12.53	43.05	-30.95	74	100	400	Peak
3	*	9848	30.84	16.34	47.18	-26.82	74	100	400	Peak

Note :

- " \* " means the worst value in this measurement data °.
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °.
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °.
- The emission levels of other frequencies are very lower than the limit and not show in test report °.

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE1-CH11	Test Voltage	AC 120V/60Hz

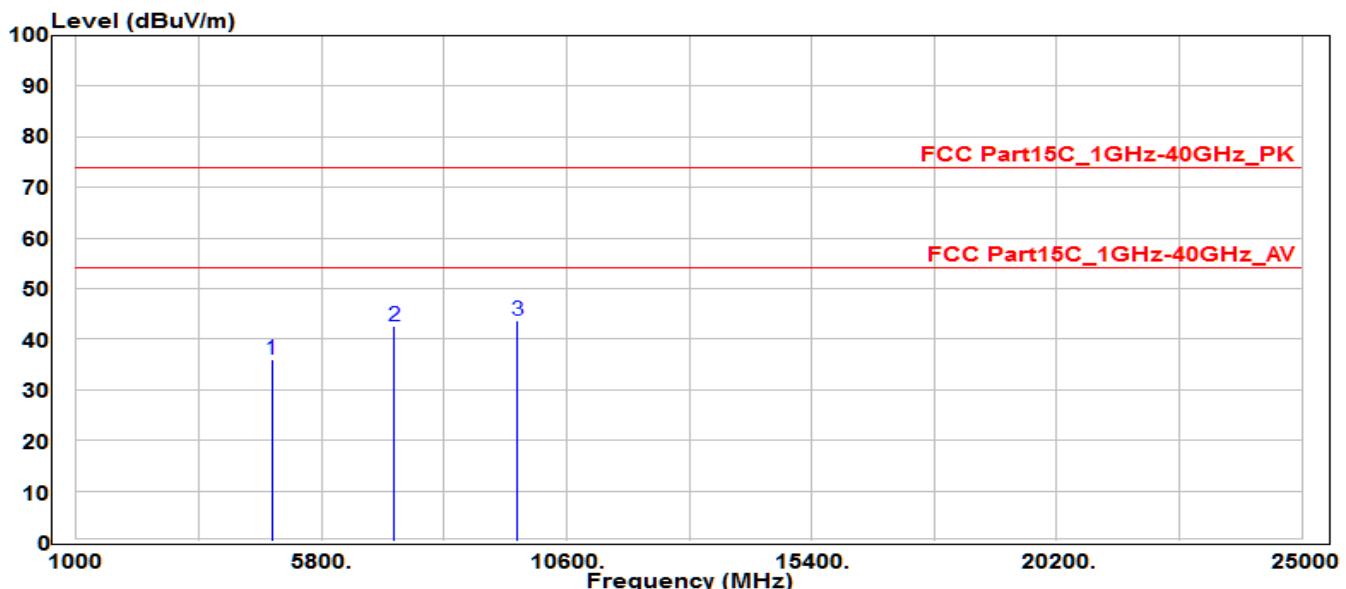


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4924	35.57	3.65	39.22	-34.78	74	100	400	Peak
2		7386	31.74	12.53	44.27	-29.73	74	100	400	Peak
3	*	9848	30.1	16.34	46.44	-27.56	74	100	400	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °
3. Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °
4. The emission levels of other frequencies are very lower than the limit and not show in test report °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH01	Test Voltage	AC 120V/60Hz

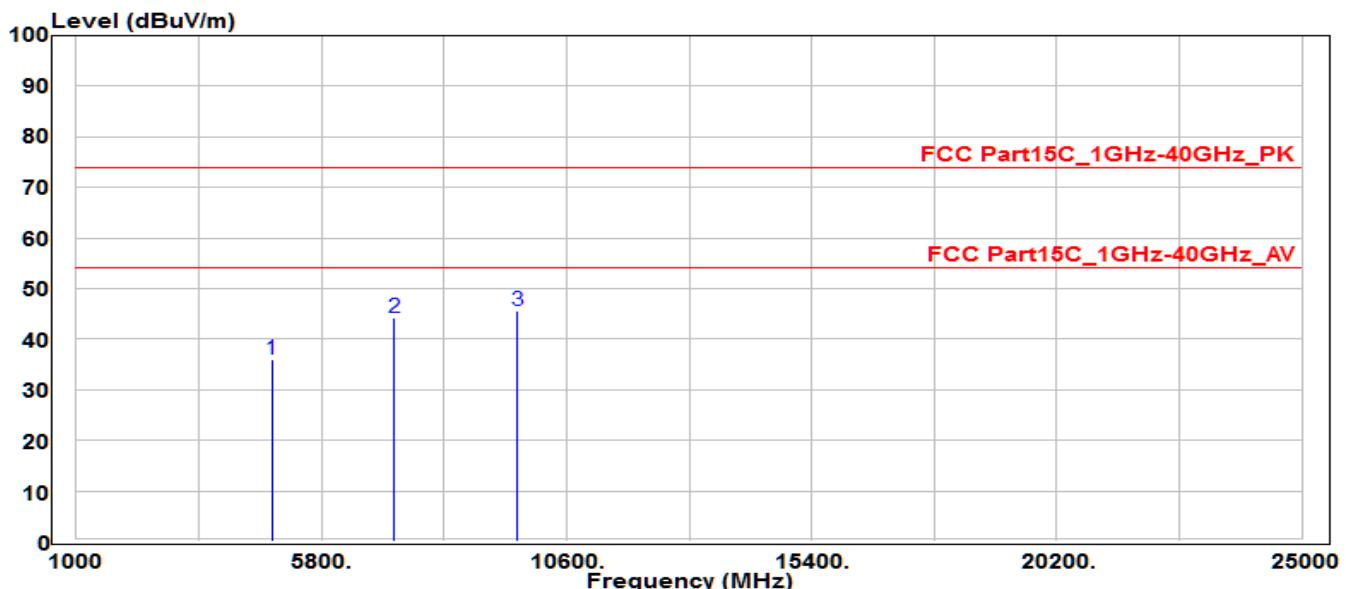


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4824	32.46	3.67	36.13	-37.87	74	100	400	Peak
2		7236	30.3	12.19	42.49	-31.51	74	100	400	Peak
3	*	9648	28.08	15.67	43.75	-30.25	74	100	400	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °
3. Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °
4. The emission levels of other frequencies are very lower than the limit and not show in test report °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH01	Test Voltage	AC 120V/60Hz

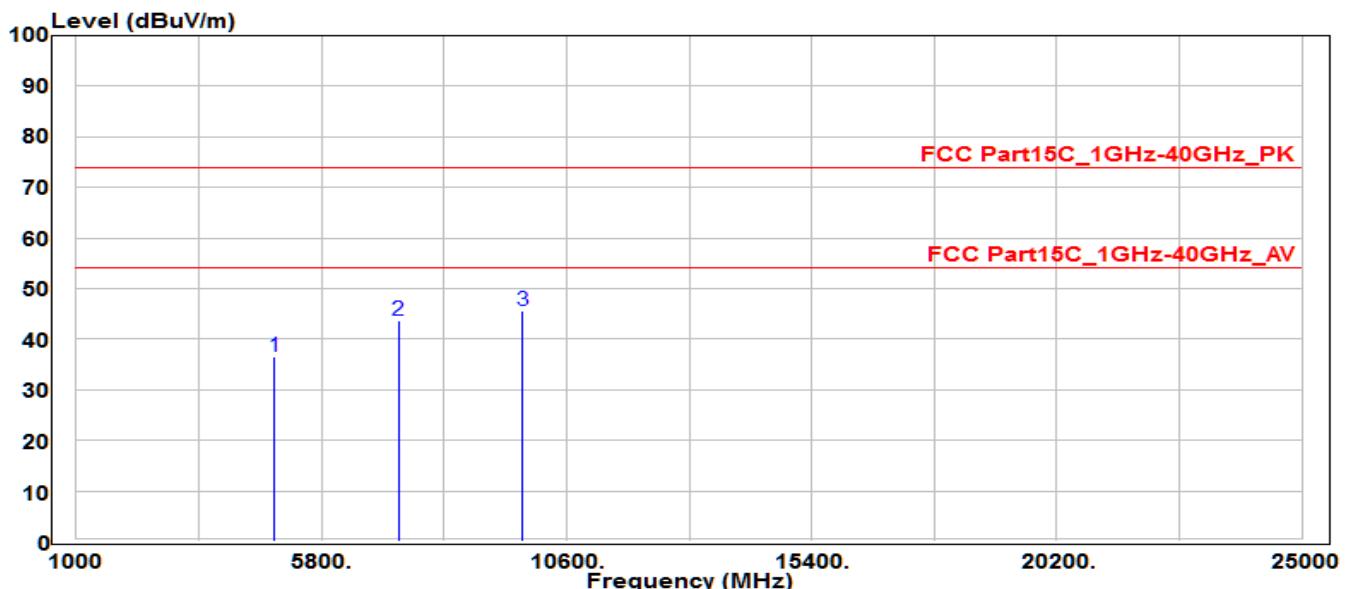


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4824	32.41	3.67	36.08	-37.92	74	100	400	Peak
2		7236	31.96	12.19	44.15	-29.85	74	100	400	Peak
3	*	9648	29.95	15.67	45.62	-28.38	74	100	400	Peak

Note :

- " \* " means the worst value in this measurement data °.
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °.
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °.
- The emission levels of other frequencies are very lower than the limit and not show in test report °.

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH06	Test Voltage	AC 120V/60Hz

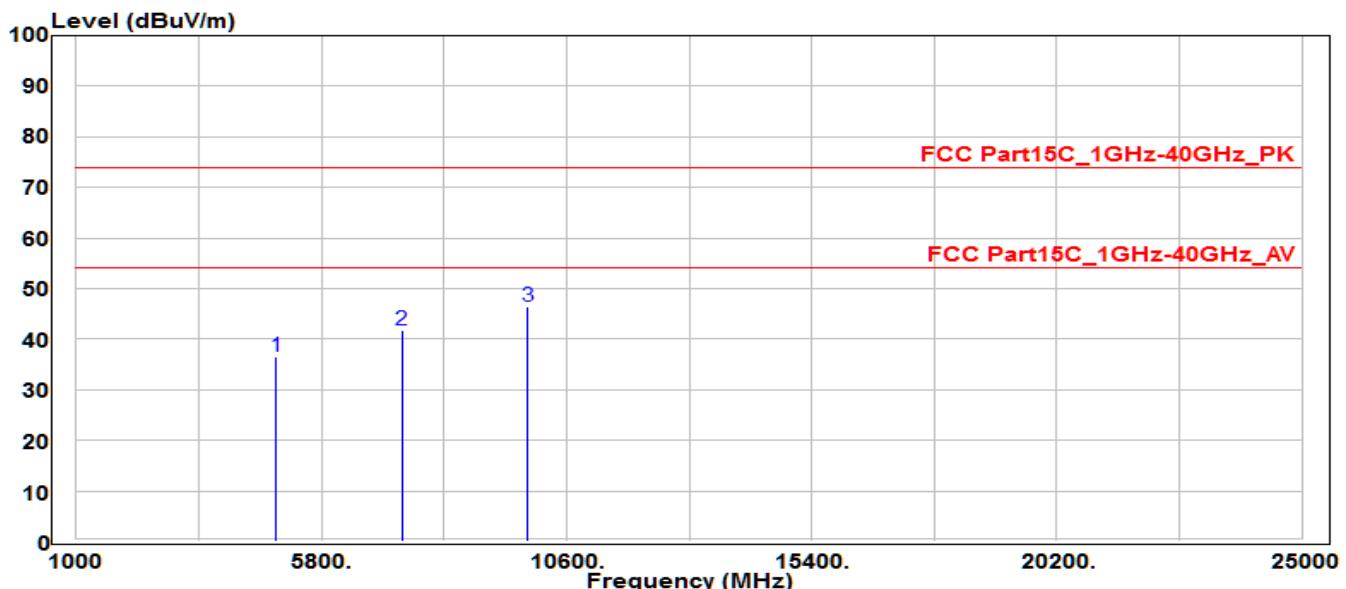


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4874	33.02	3.65	36.67	-37.33	74	100	400	Peak
2		7311	31.31	12.34	43.65	-30.35	74	100	400	Peak
3	*	9748	29.47	16.02	45.49	-28.51	74	100	400	Peak

Note :

- " \* " means the worst value in this measurement data °.
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °.
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °.
- The emission levels of other frequencies are very lower than the limit and not show in test report °.

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH06	Test Voltage	AC 120V/60Hz

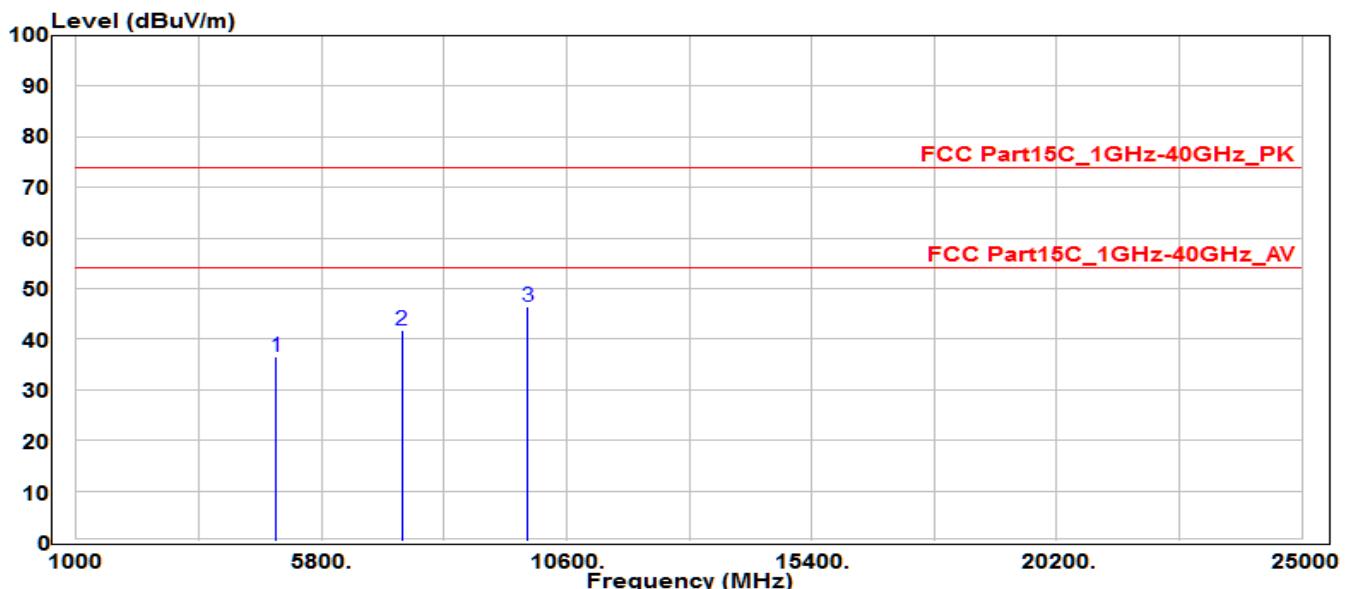


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4874	32.33	3.65	35.98	-38.02	74	100	400	Peak
2		7311	31.17	12.34	43.51	-30.49	74	100	400	Peak
3	*	9748	29.31	16.02	45.33	-28.67	74	100	400	Peak

Note :

- " \* " means the worst value in this measurement data °.
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °.
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °.
- The emission levels of other frequencies are very lower than the limit and not show in test report °.

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH11	Test Voltage	AC 120V/60Hz

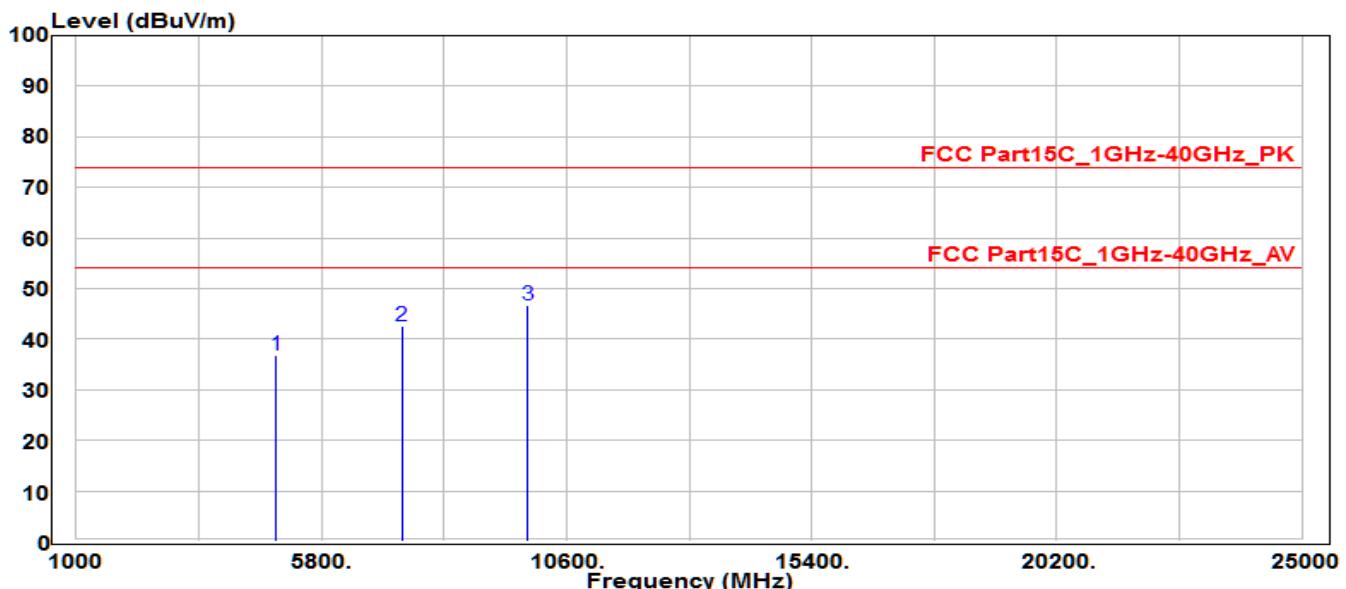


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4924	32.87	3.65	36.52	-37.48	74	100	400	Peak
2		7386	29.3	12.53	41.83	-32.17	74	100	400	Peak
3	*	9848	30.07	16.34	46.41	-27.59	74	100	400	Peak

Note :

- " \* " means the worst value in this measurement data °.
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °.
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °.
- The emission levels of other frequencies are very lower than the limit and not show in test report °.

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH11	Test Voltage	AC 120V/60Hz

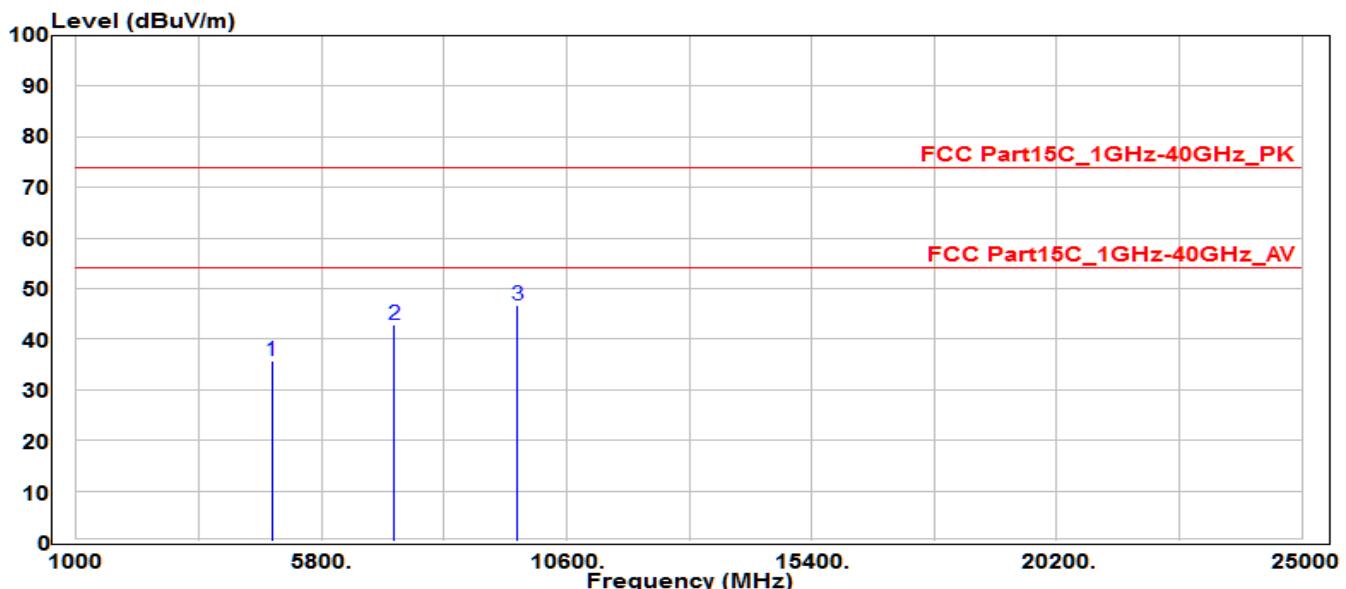


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4924	33.21	3.65	36.86	-37.14	74	100	400	Peak
2		7386	30.14	12.53	42.67	-31.33	74	100	400	Peak
3	*	9848	30.48	16.34	46.82	-27.18	74	100	400	Peak

Note :

1. " \* " means the worst value in this measurement data °.
2. Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °.
3. Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °.
4. The emission levels of other frequencies are very lower than the limit and not show in test report °.

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE3-CH01	Test Voltage	AC 120V/60Hz

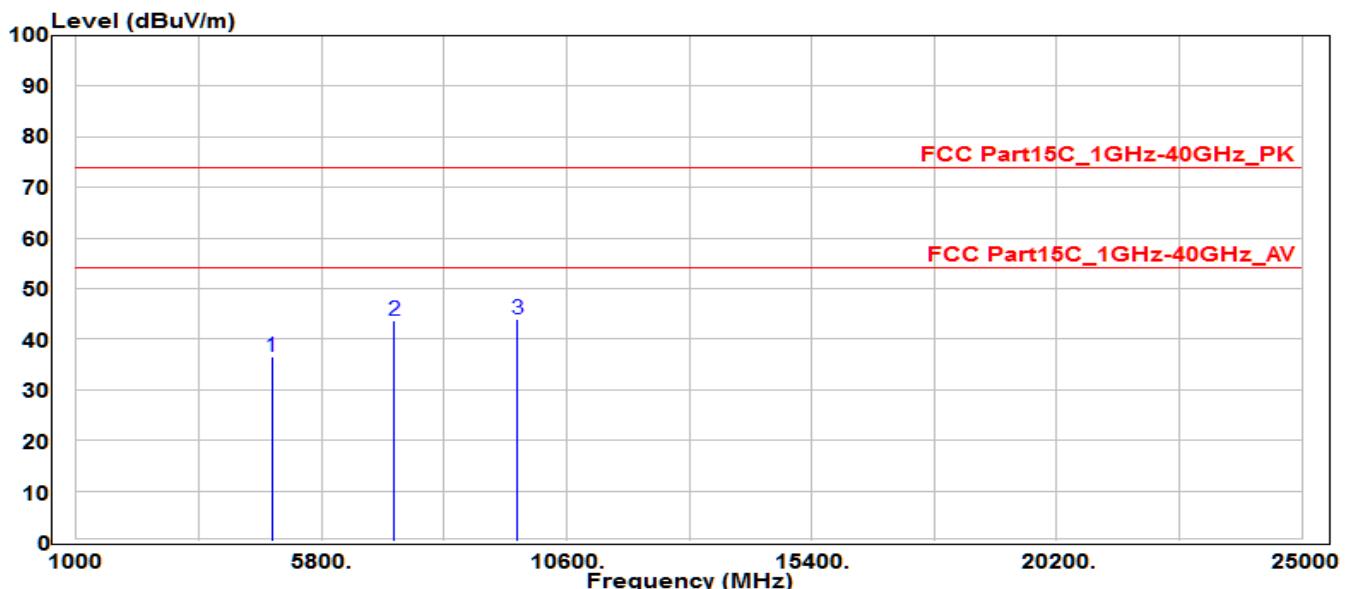


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4824	32.18	3.67	35.85	-38.15	74	100	400	Peak
2		7236	30.62	12.19	42.81	-31.19	74	100	400	Peak
3	*	9648	31.05	15.67	46.72	-27.28	74	100	400	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °
3. Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °
4. The emission levels of other frequencies are very lower than the limit and not show in test report °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE3-CH01	Test Voltage	AC 120V/60Hz

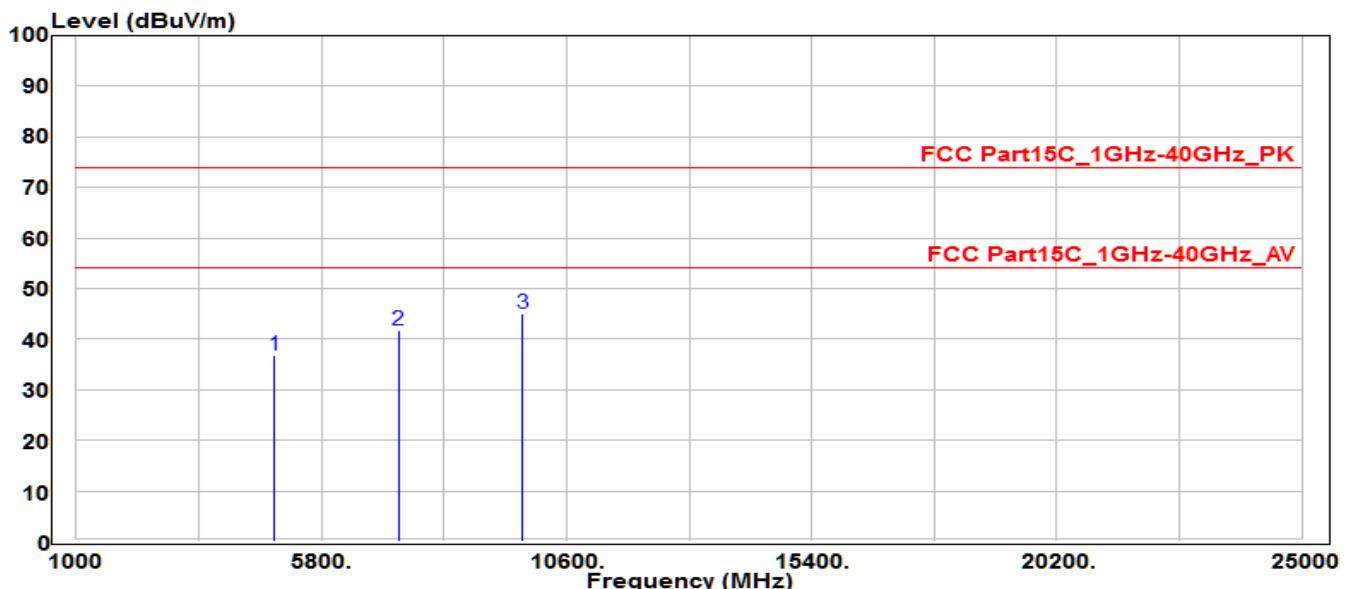


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4824	33	3.67	36.67	-37.33	74	100	400	Peak
2		7236	31.42	12.19	43.61	-30.39	74	100	400	Peak
3	*	9648	28.38	15.67	44.05	-29.95	74	100	400	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °
3. Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °
4. The emission levels of other frequencies are very lower than the limit and not show in test report °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE3-CH06	Test Voltage	AC 120V/60Hz

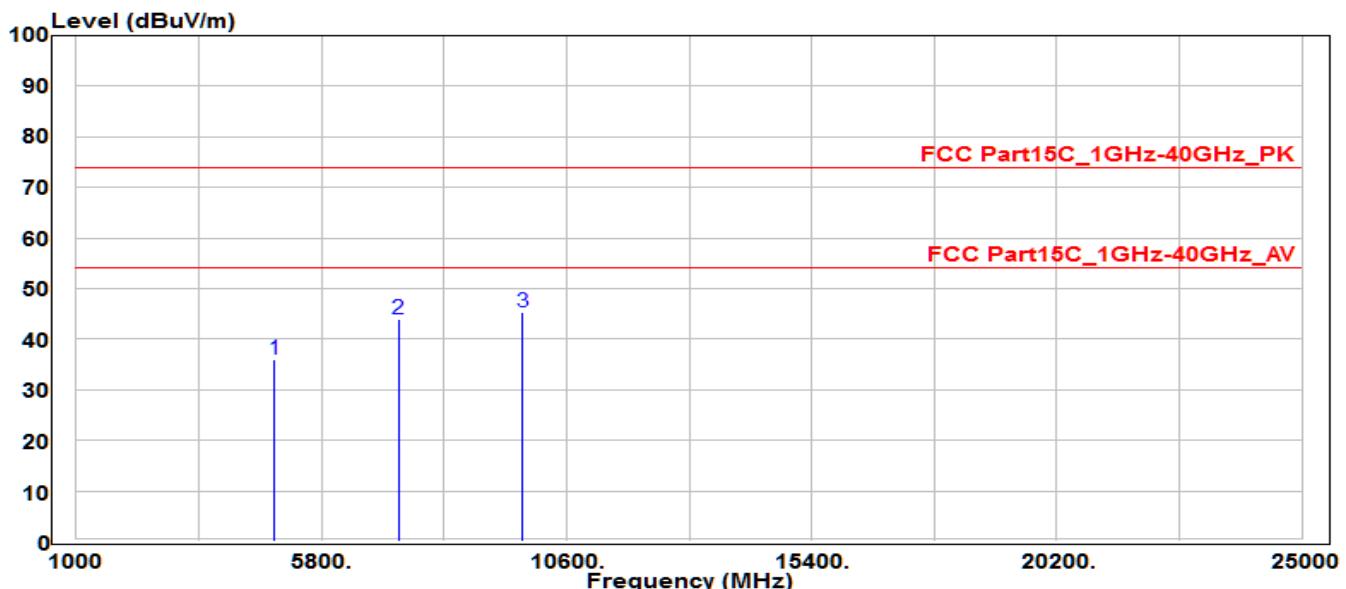


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4874	33.21	3.65	36.86	-37.14	74	100	400	Peak
2		7311	29.52	12.34	41.86	-32.14	74	100	400	Peak
3	*	9748	29.18	16.02	45.2	-28.8	74	100	400	Peak

Note :

- " \* " means the worst value in this measurement data °.
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °.
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °.
- The emission levels of other frequencies are very lower than the limit and not show in test report °.

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE3-CH06	Test Voltage	AC 120V/60Hz

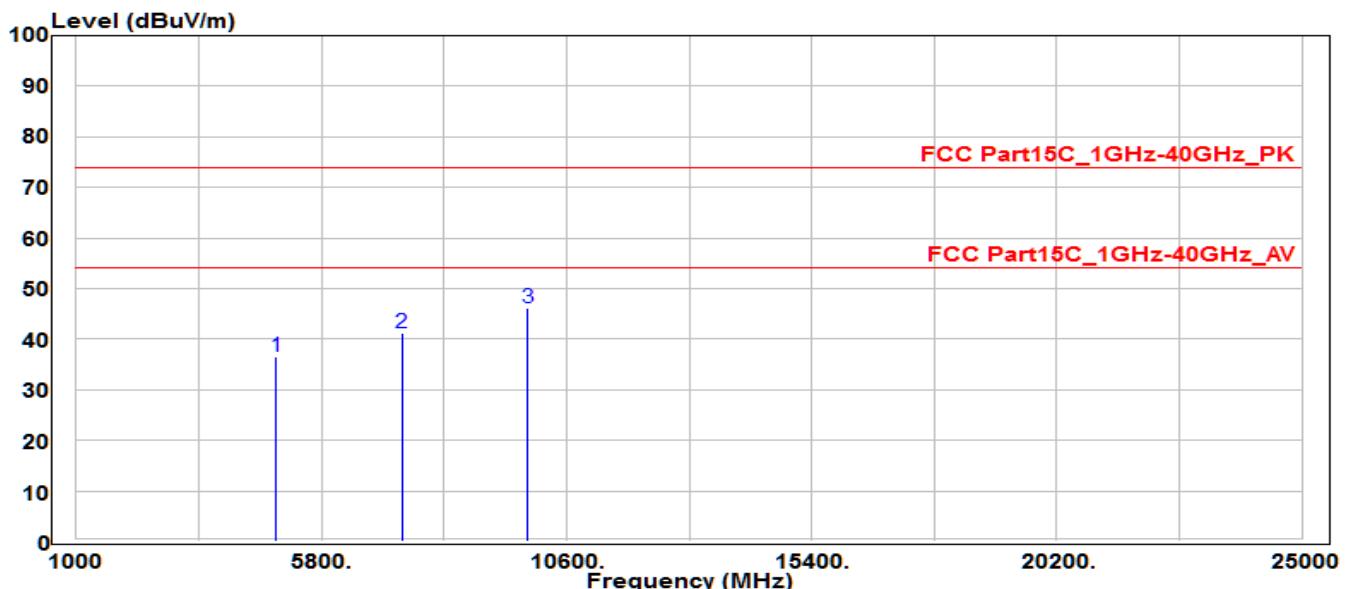


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4874	32.41	3.65	36.06	-37.94	74	100	400	Peak
2		7311	31.74	12.34	44.08	-29.92	74	100	400	Peak
3	*	9748	29.39	16.02	45.41	-28.59	74	100	400	Peak

Note :

- " \* " means the worst value in this measurement data °.
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °.
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °.
- The emission levels of other frequencies are very lower than the limit and not show in test report °.

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE3-CH11	Test Voltage	AC 120V/60Hz

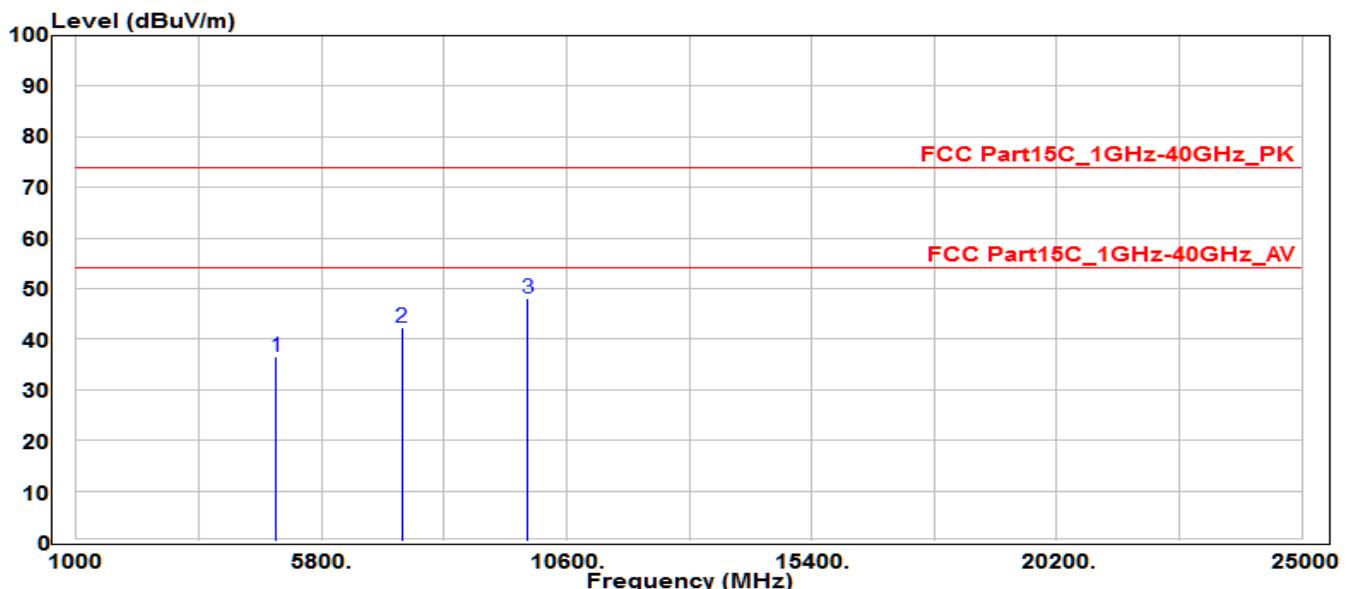


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4924	32.9	3.65	36.55	-37.45	74	100	400	Peak
2		7386	28.8	12.53	41.33	-32.67	74	100	400	Peak
3	*	9848	29.78	16.34	46.12	-27.88	74	100	400	Peak

Note :

- " \* " means the worst value in this measurement data °.
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °.
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °.
- The emission levels of other frequencies are very lower than the limit and not show in test report °.

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE3-CH11	Test Voltage	AC 120V/60Hz

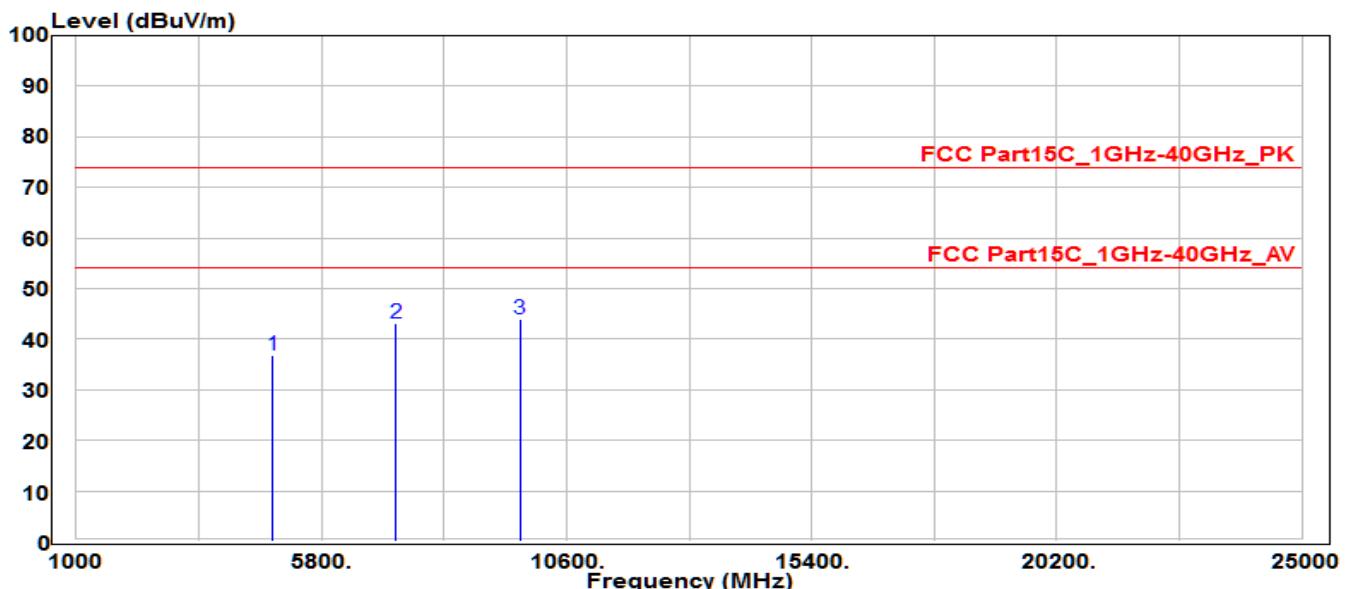


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4924	32.87	3.65	36.52	-37.48	74	100	400	Peak
2		7386	29.87	12.53	42.4	-31.6	74	100	400	Peak
3	*	9848	31.65	16.34	47.99	-26.01	74	100	400	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °
3. Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °
4. The emission levels of other frequencies are very lower than the limit and not show in test report °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE4-CH03	Test Voltage	AC 120V/60Hz

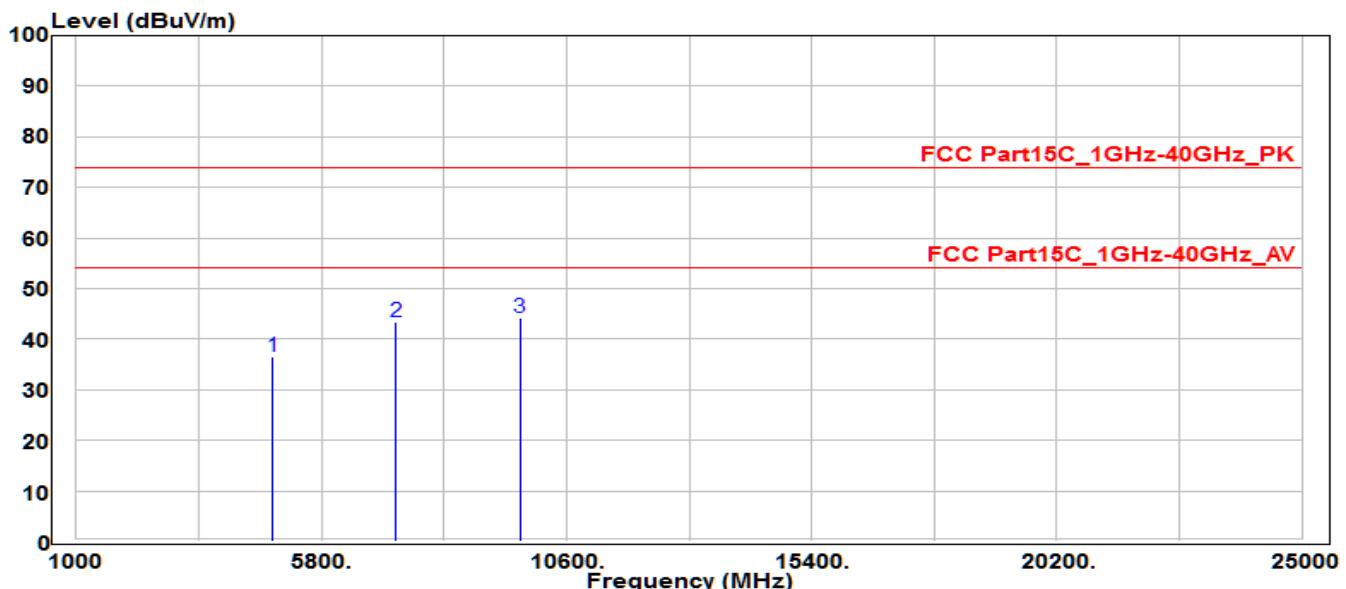


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4844	33.22	3.68	36.9	-37.1	74	100	400	Peak
2		7266	30.88	12.25	43.13	-30.87	74	100	400	Peak
3	*	9688	28.21	15.81	44.02	-29.98	74	100	400	Peak

Note :

- " \* " means the worst value in this measurement data °.
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °.
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °.
- The emission levels of other frequencies are very lower than the limit and not show in test report °.

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE4-CH03	Test Voltage	AC 120V/60Hz

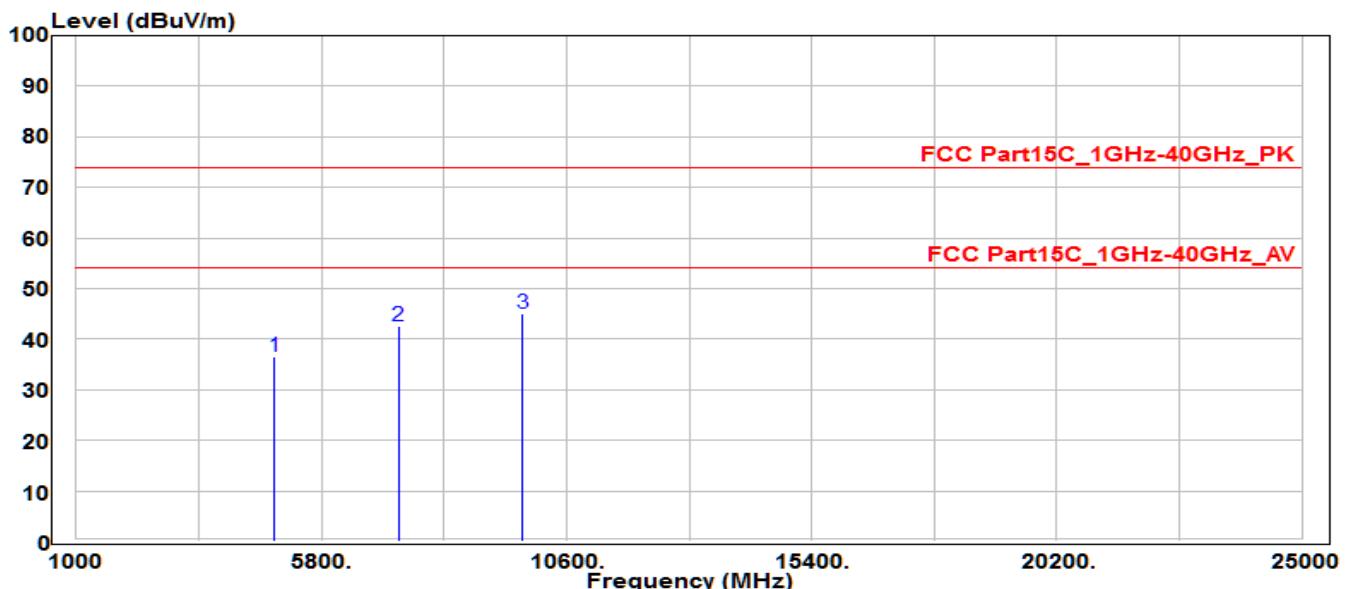


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4844	32.92	3.68	36.6	-37.4	74	100	400	Peak
2		7266	31.27	12.25	43.52	-30.48	74	100	400	Peak
3	*	9688	28.45	15.81	44.26	-29.74	74	100	400	Peak

Note :

1. " \* " means the worst value in this measurement data °.
2. Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °.
3. Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °.
4. The emission levels of other frequencies are very lower than the limit and not show in test report °.

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE4-CH06	Test Voltage	AC 120V/60Hz

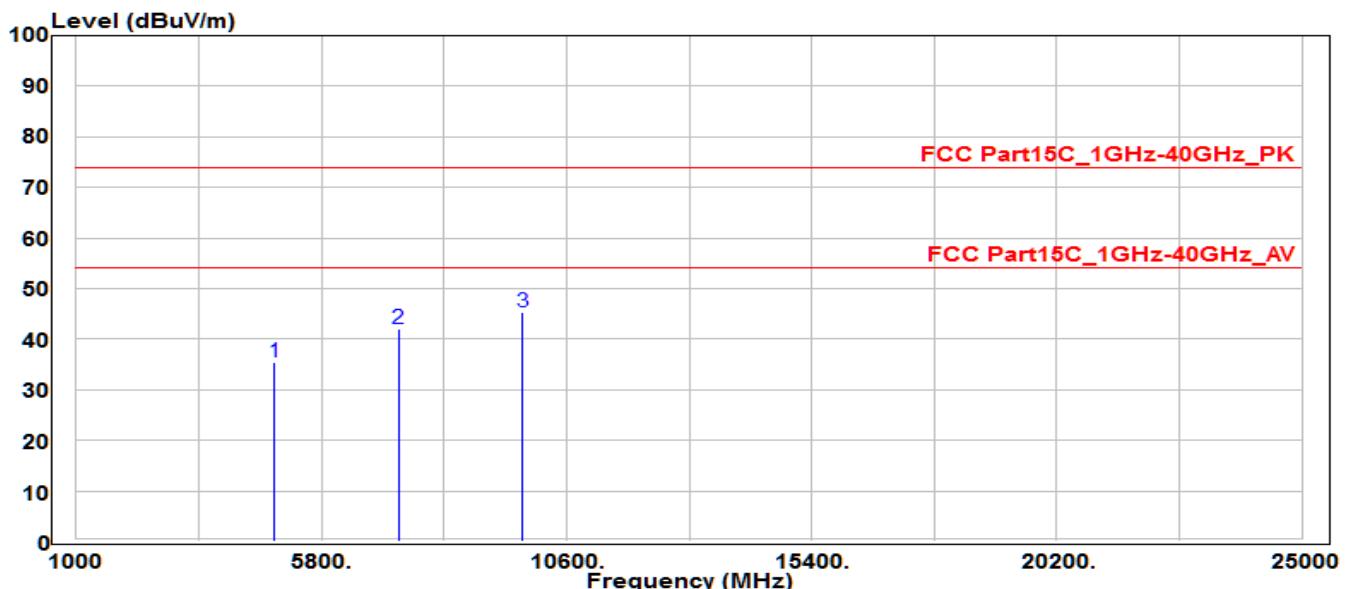


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4874	32.8	3.65	36.45	-37.55	74	100	400	Peak
2		7311	30.39	12.34	42.73	-31.27	74	100	400	Peak
3	*	9748	29.07	16.02	45.09	-28.91	74	100	400	Peak

Note :

- " \* " means the worst value in this measurement data °.
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °.
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °.
- The emission levels of other frequencies are very lower than the limit and not show in test report °.

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE4-CH06	Test Voltage	AC 120V/60Hz

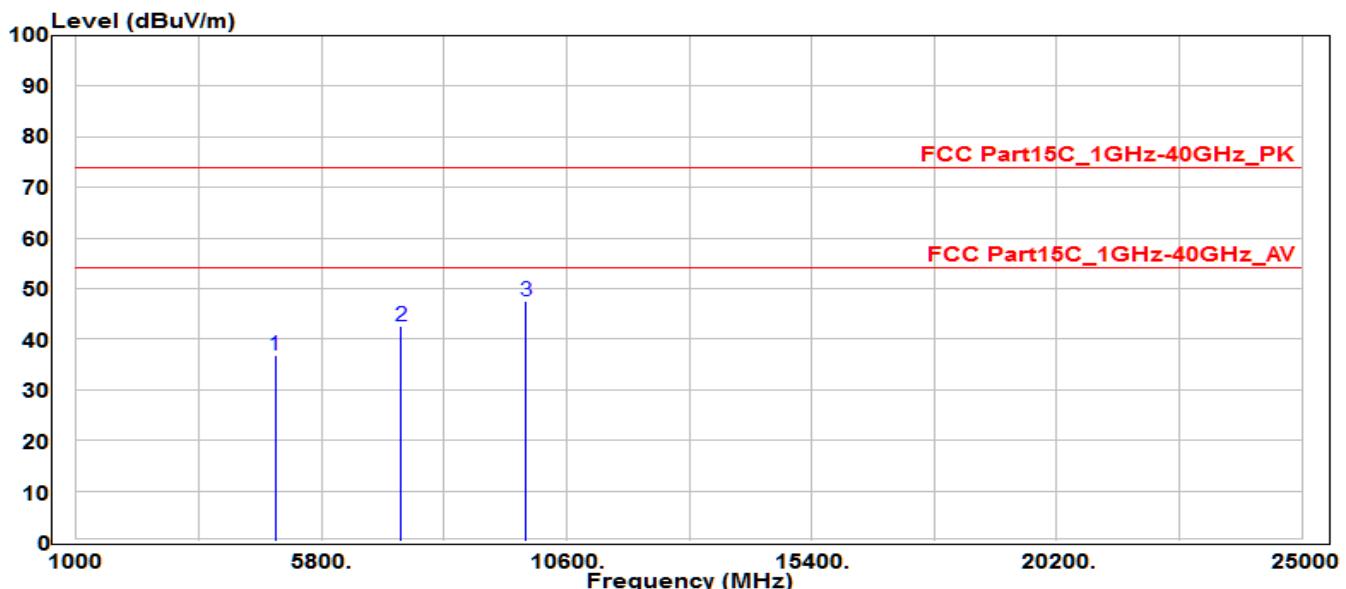


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4874	31.74	3.65	35.39	-38.61	74	100	400	Peak
2		7311	29.69	12.34	42.03	-31.97	74	100	400	Peak
3	*	9748	29.32	16.02	45.34	-28.66	74	100	400	Peak

Note :

- " \* " means the worst value in this measurement data °.
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °.
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °.
- The emission levels of other frequencies are very lower than the limit and not show in test report °.

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE4-CH09	Test Voltage	AC 120V/60Hz

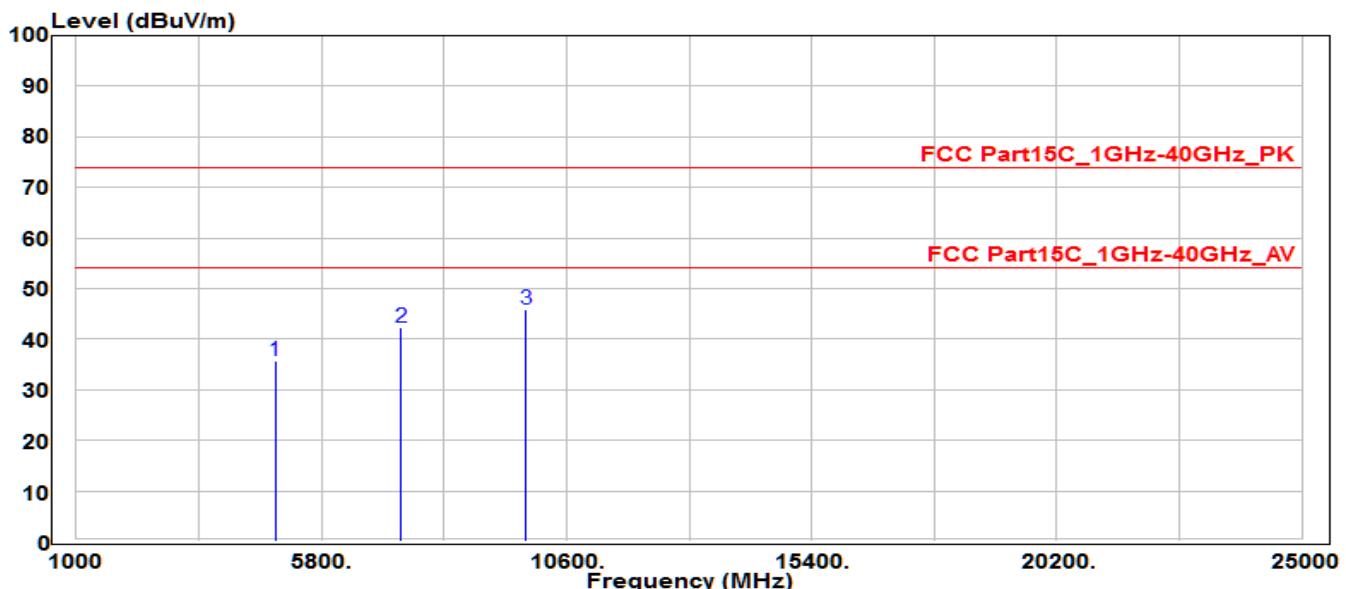


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4904	33.29	3.64	36.93	-37.07	74	100	400	Peak
2		7356	30.22	12.44	42.66	-31.34	74	100	400	Peak
3	*	9808	31.39	16.24	47.63	-26.37	74	100	400	Peak

Note :

1. " \* " means the worst value in this measurement data °.
2. Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °.
3. Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °.
4. The emission levels of other frequencies are very lower than the limit and not show in test report °.

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE4-CH09	Test Voltage	AC 120V/60Hz



No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4904	31.97	3.64	35.61	-38.39	74	100	400	Peak
2		7356	29.94	12.44	42.38	-31.62	74	100	400	Peak
3	*	9808	29.66	16.24	45.9	-28.1	74	100	400	Peak

Note :

- " \* " means the worst value in this measurement data °.
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °.
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °.
- The emission levels of other frequencies are very lower than the limit and not show in test report °.

## 7.4. Radiated Restricted Band Edge Measurement

### 7.4.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 – 30	30	30
30 – 88	100	3
88 – 216	150	3
216 – 960	200	3
Above 960	500	3

### 7.4.2. Test Procedure Used

ANSI C63.10-2013 - Section 11.12.1

### 7.4.3. Test Setting

#### Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3 \* RBW
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

**Table 1 - RBW as a function of frequency**

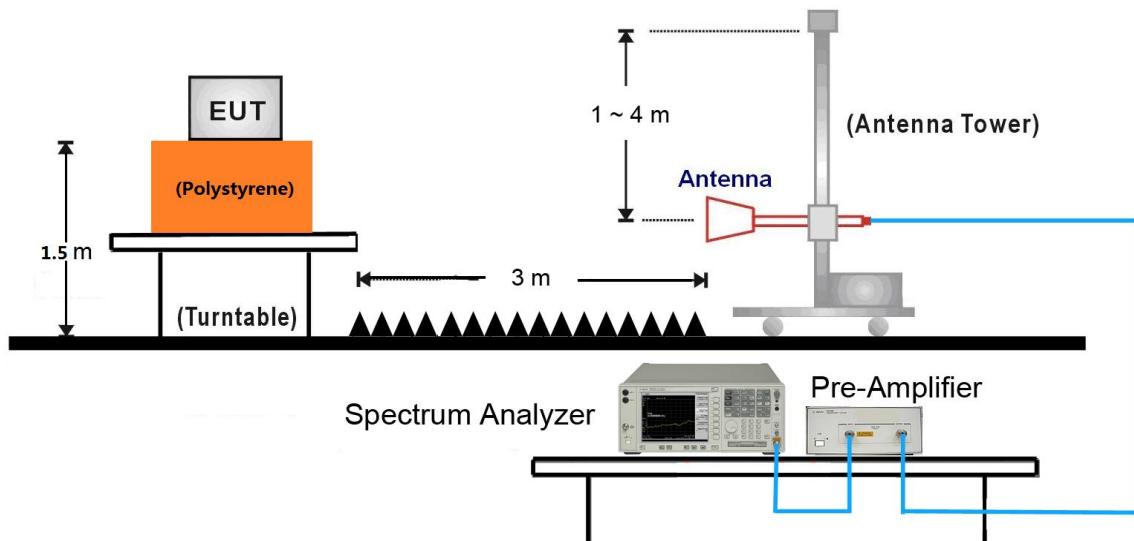
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

**Average Field Strength Measurements**

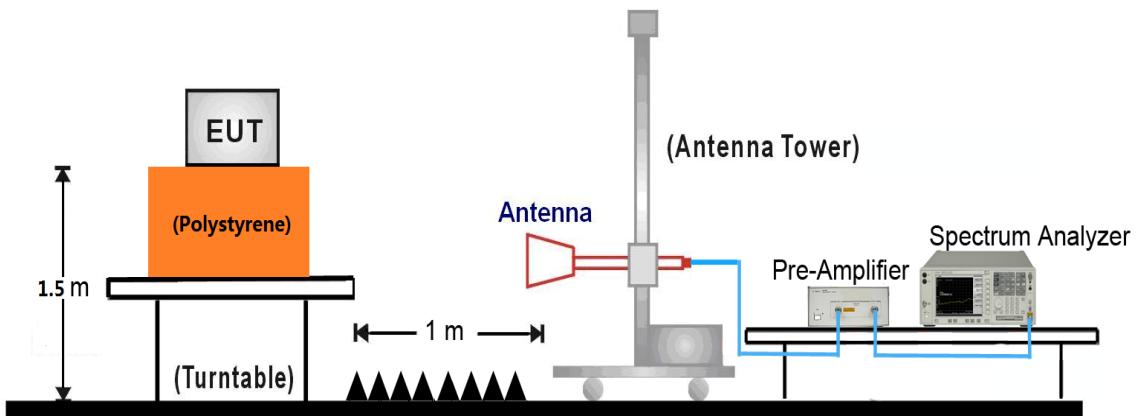
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW  $\geq 1/T$
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

#### 7.4.4. Test Setup

##### 1GHz ~ 18GHz Test Setup:

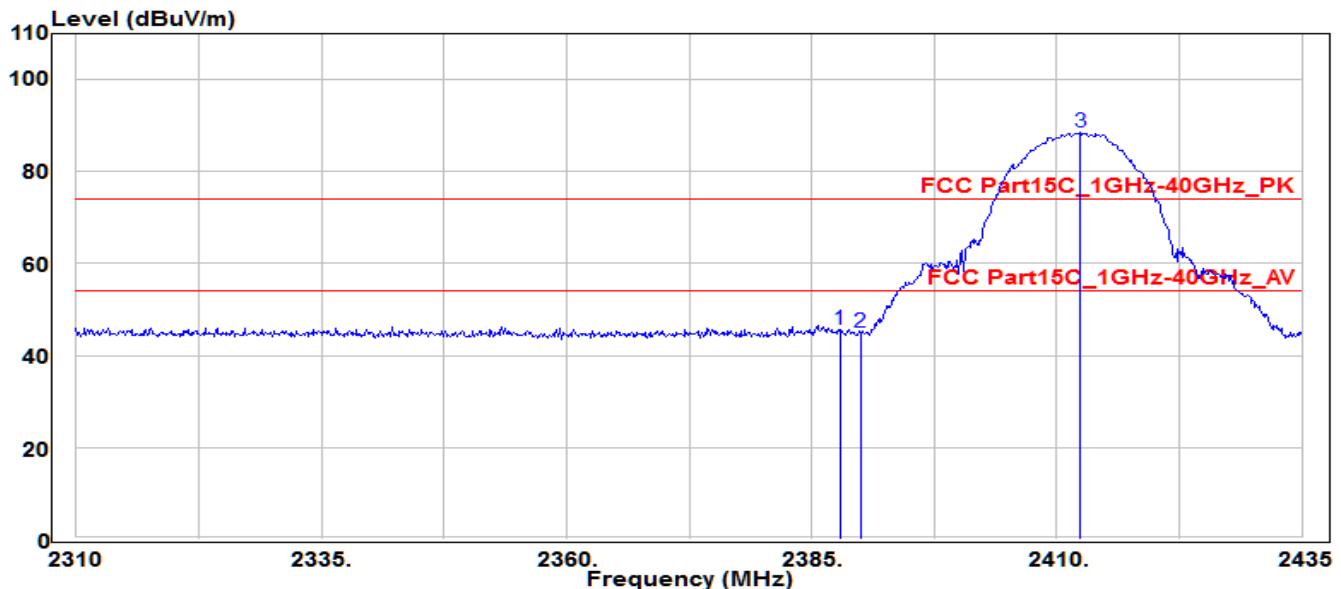


##### 18GHz ~40GHz Test Setup:



#### 7.4.5. Test Result

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE1-CH01	Test Voltage	AC 120V/60Hz

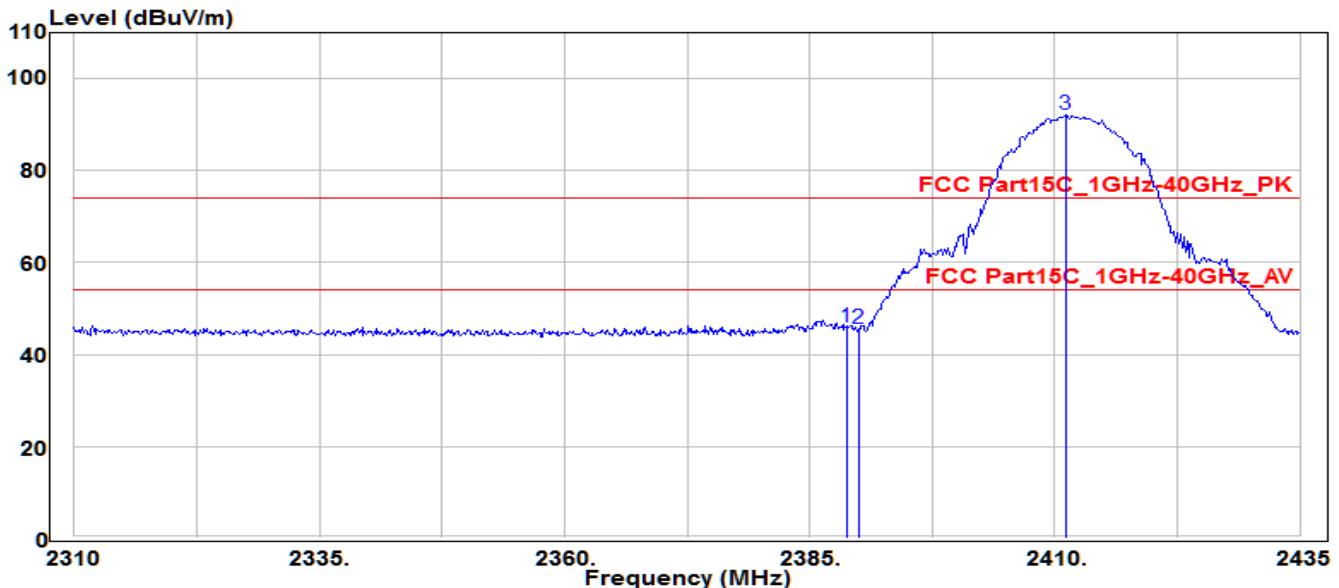


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2387.875	47.39	-1.83	45.56	-28.44	74	150	300	Peak
2		2390	46.84	-1.84	45	-29	74	150	300	Peak
3		2412.375	90.33	-1.92	88.41	14.41	74	150	300	Peak

Note :

1. " \* " means the worst value in this measurement data .
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) .
3. Measurement (dBuV/m) = Reading(dBuV) + C.F ( Correction Factor ) .

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE1-CH01	Test Voltage	AC 120V/60Hz

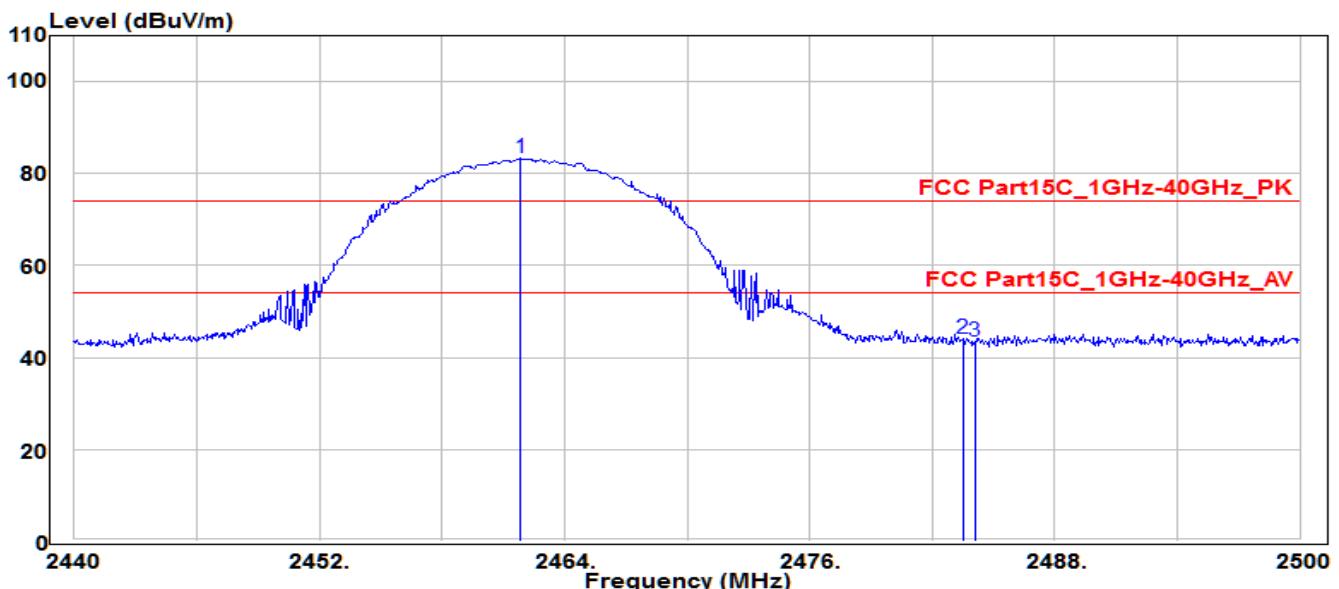


No		Frequency (MHz)	Reading (dB <sub>BuV</sub> )	C.F (dB)	Measurement (dB <sub>BuV/m</sub> )	Margin (dB)	Limit (dB <sub>BuV</sub> )	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2388.75	47.7	-1.83	45.87	-28.13	74	155	315	Peak
2		2390	47.36	-1.84	45.52	-28.48	74	155	315	Peak
3		2411.125	94.01	-1.92	92.09	18.09	74	155	315	Peak

Note :

1. " \* " means the worst value in this measurement data .
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) .
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F ( Correction Factor ) .

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE1-CH11	Test Voltage	AC 120V/60Hz

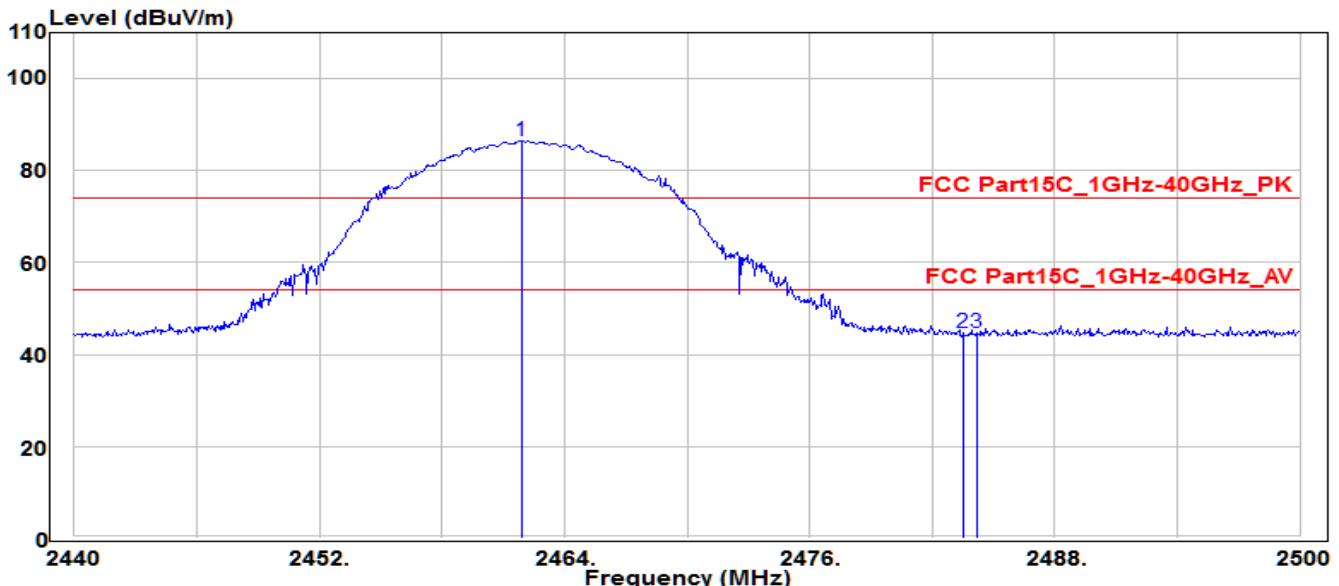


No		Frequency (MHz)	Reading (dB <sub>B</sub> V)	C.F (dB)	Measurement (dB <sub>B</sub> V/m)	Margin (dB)	Limit (dB <sub>B</sub> V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2461.84	85.35	-2.08	83.27	9.27	74	150	300	Peak
2	*	2483.5	46.17	-2.08	44.09	-29.91	74	150	300	Peak
3		2484.1	45.54	-2.08	43.46	-30.54	74	150	300	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dB<sub>B</sub>V/m) = Reading(dB<sub>B</sub>V) + C.F ( Correction Factor ) °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE1-CH11	Test Voltage	AC 120V/60Hz

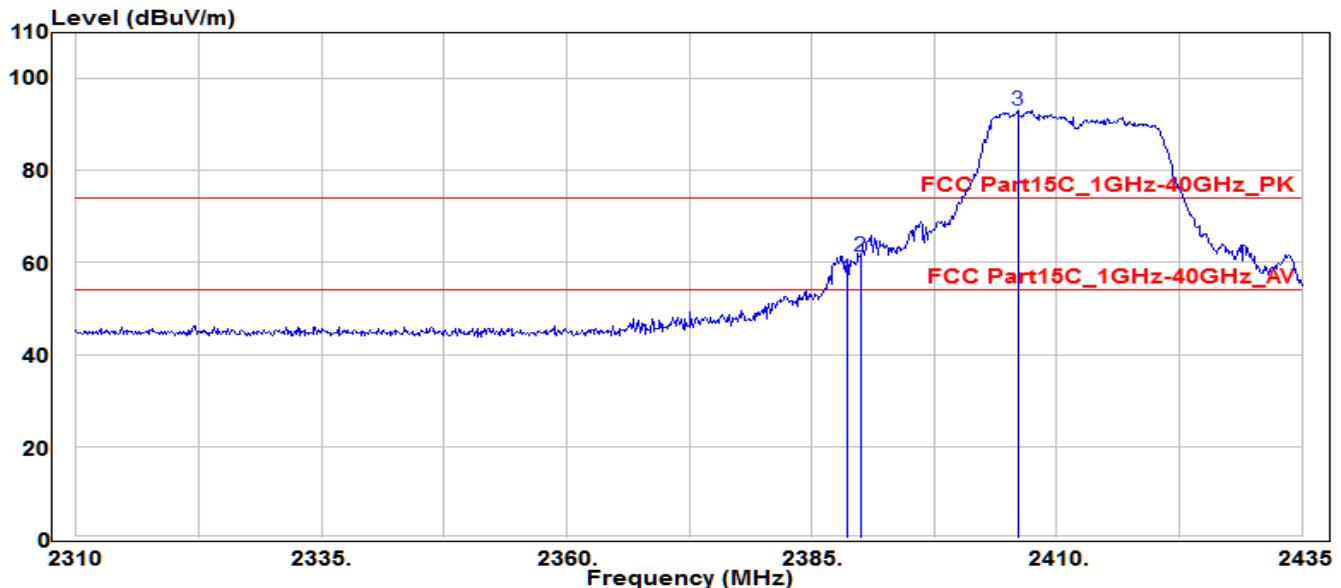


No		Frequency (MHz)	Reading (dB <sub>B</sub> V)	C.F (dB)	Measurement (dB <sub>B</sub> V/m)	Margin (dB)	Limit (dB <sub>B</sub> V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2461.9	88.63	-2.08	86.55	12.55	74	160	320	Peak
2		2483.5	46.74	-2.08	44.66	-29.34	74	160	320	Peak
3	*	2484.16	46.84	-2.08	44.76	-29.24	74	160	320	Peak

Note :

1. " \* " means the worst value in this measurement data .
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) .
3. Measurement (dB<sub>B</sub>V/m) = Reading(dB<sub>B</sub>V) + C.F ( Correction Factor ) .

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH01	Test Voltage	AC 120V/60Hz

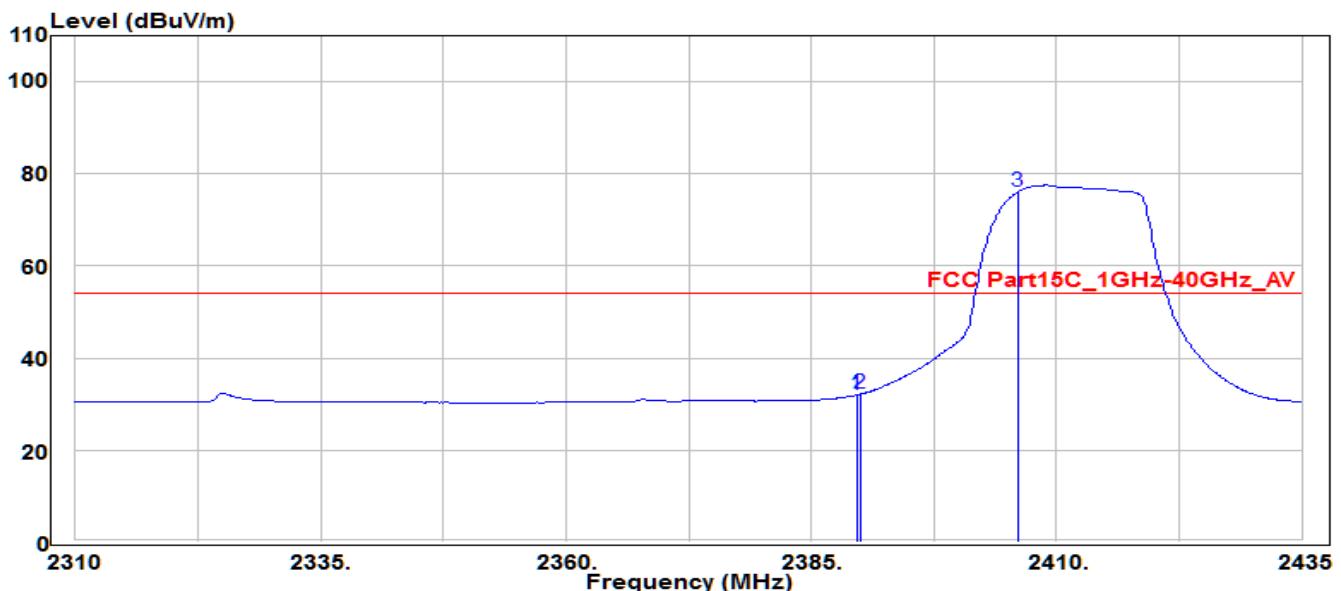


No		Frequency (MHz)	Reading (dB <sub>BuV</sub> )	C.F (dB)	Measurement (dB <sub>BuV/m</sub> )	Margin (dB)	Limit (dB <sub>BuV</sub> )	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2388.625	58.48	-1.83	56.65	-17.35	74	200	315	Peak
2	*	2390	63.09	-1.84	61.25	-12.75	74	200	315	Peak
3		2406	95.1	-1.89	93.21	19.21	74	200	315	Peak

Note :

1. " \* " means the worst value in this measurement data .
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) .
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F ( Correction Factor ) .

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH01	Test Voltage	AC 120V/60Hz

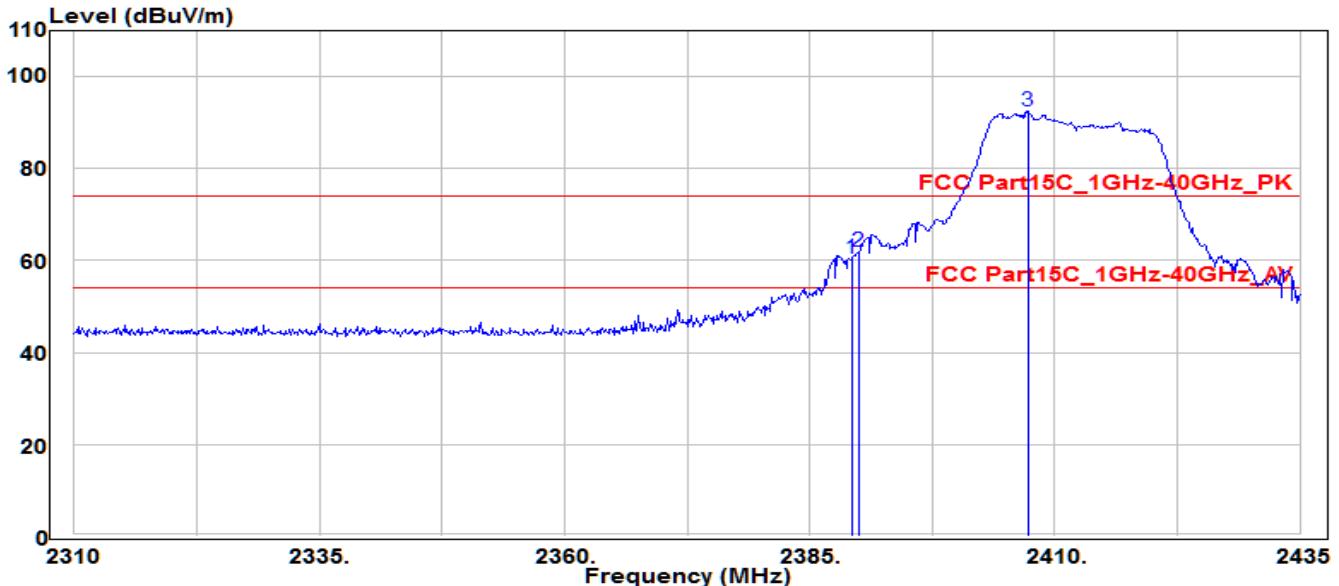


No		Frequency (MHz)	Reading (dB <sub>BuV</sub> )	C.F (dB)	Measurement (dB <sub>BuV/m</sub> )	Margin (dB)	Limit (dB <sub>BuV</sub> )	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2389.625	34.34	-2.36	31.98	-22.02	54	200	315	Average
2	*	2390	34.58	-2.36	32.22	-21.78	54	200	315	Average
3		2406	78.36	-2.32	76.04	22.04	54	200	315	Average

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F ( Correction Factor ) °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH01	Test Voltage	AC 120V/60Hz

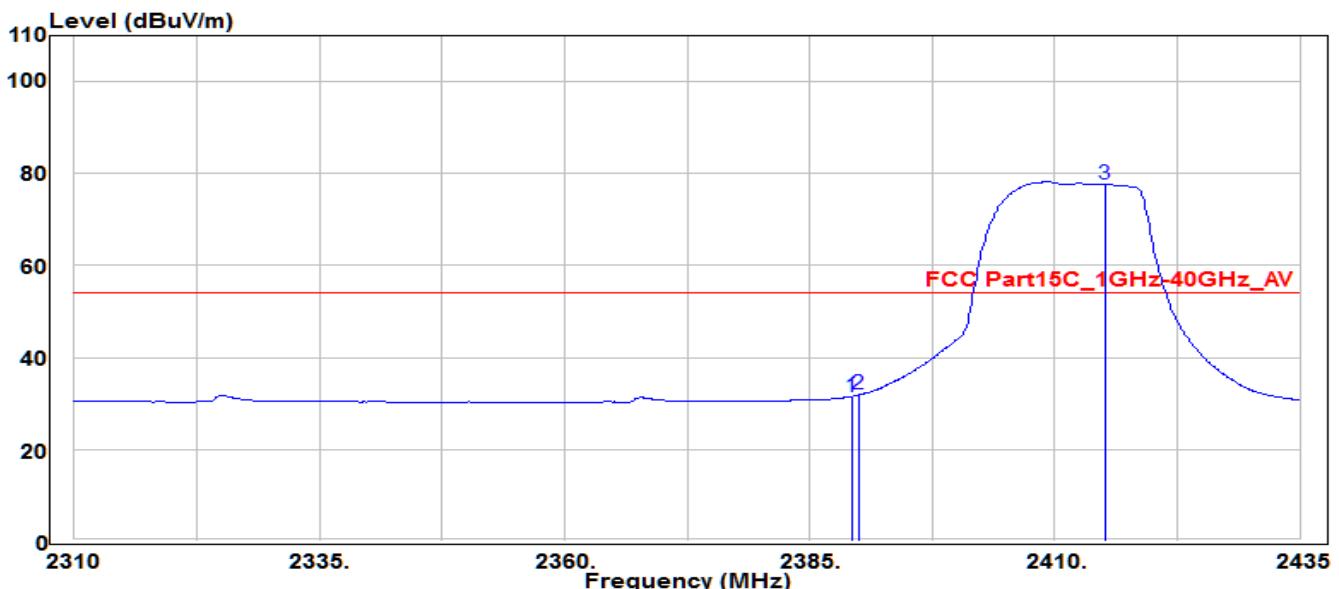


No		Frequency (MHz)	Reading (dB <sub>BuV</sub> )	C.F (dB)	Measurement (dB <sub>BuV/m</sub> )	Margin (dB)	Limit (dB <sub>BuV</sub> )	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2389.25	62.4	-1.83	60.57	-13.43	74	155	310	Peak
2	*	2390	63.94	-1.84	62.1	-11.9	74	155	310	Peak
3		2407.25	94.33	-1.9	92.43	18.43	74	155	310	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F ( Correction Factor ) °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH01	Test Voltage	AC 120V/60Hz

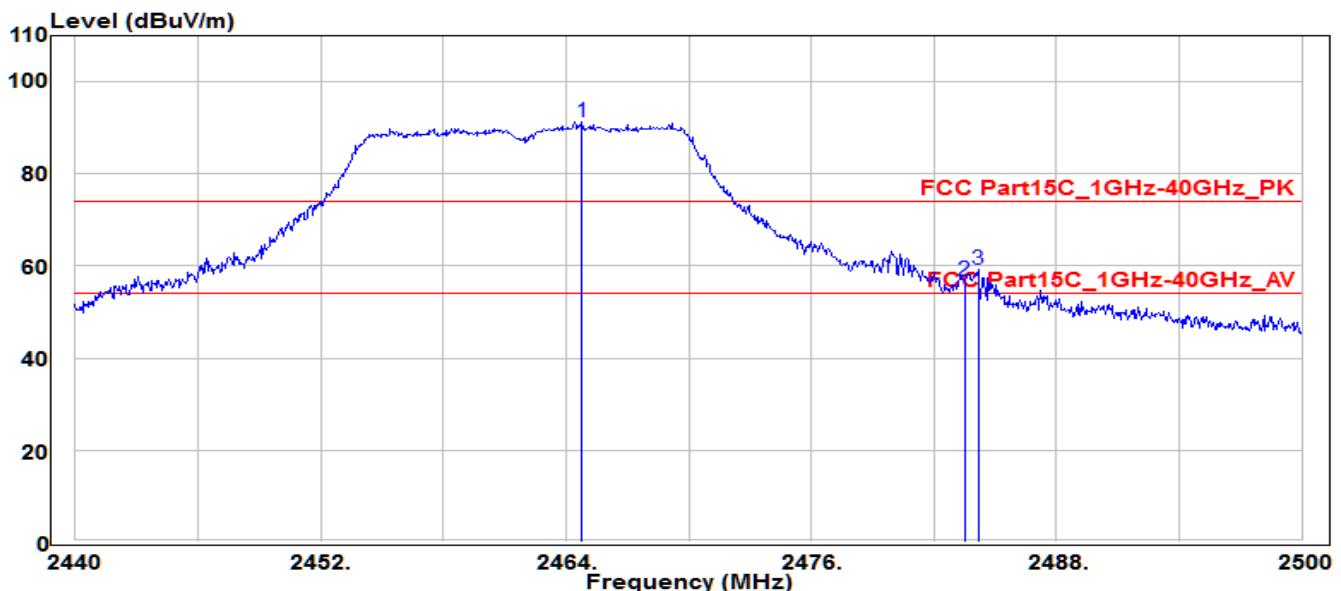


No		Frequency (MHz)	Reading (dB <sub>BuV</sub> )	C.F (dB)	Measurement (dB <sub>BuV/m</sub> )	Margin (dB)	Limit (dB <sub>BuV</sub> )	Height (cm)	Angle (deg)	Remark (QP/PK/Avg)
1		2389.25	33.88	-2.35	31.53	-22.47	54	155	310	Average
2	*	2390	34.28	-2.36	31.92	-22.08	54	155	310	Average
3		2415.125	79.96	-2.31	77.65	23.65	54	155	310	Average

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F ( Correction Factor ) °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH11	Test Voltage	AC 120V/60Hz

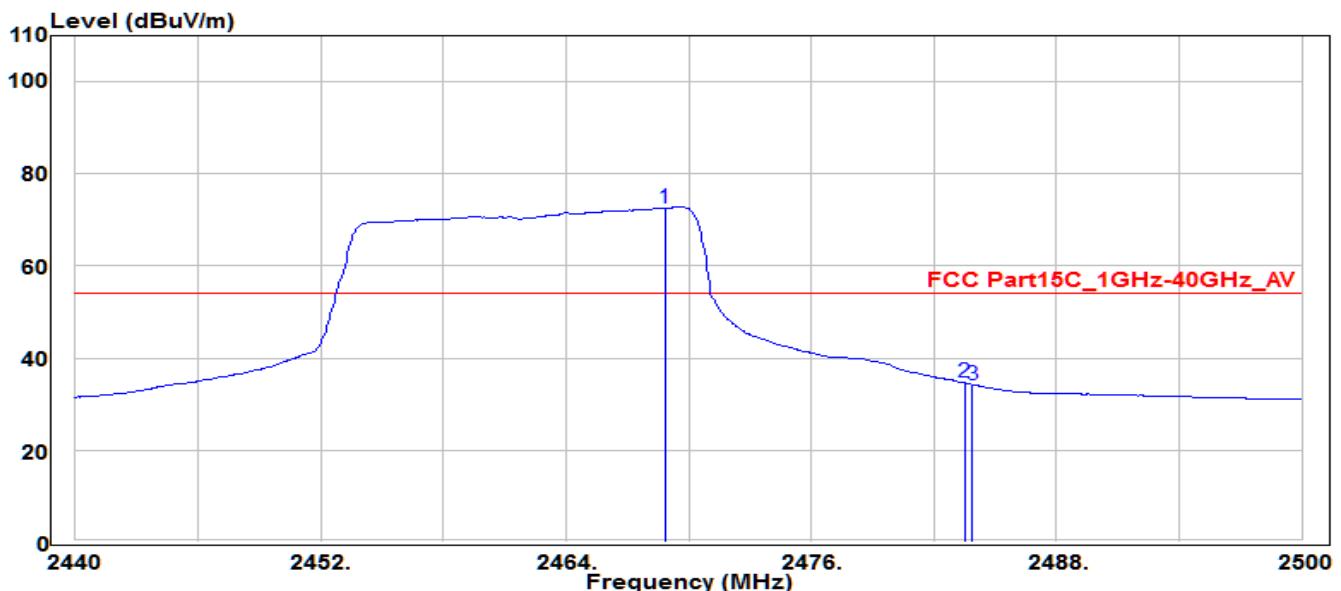


No		Frequency (MHz)	Reading (dB <sub>BuV</sub> )	C.F (dB)	Measurement (dB <sub>BuV/m</sub> )	Margin (dB)	Limit (dB <sub>BuV</sub> )	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2464.78	93.44	-2.07	91.37	17.37	74	155	290	Peak
2		2483.5	58.9	-2.08	56.82	-17.18	74	155	290	Peak
3	*	2484.16	61.3	-2.08	59.22	-14.78	74	155	290	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F ( Correction Factor ) °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH11	Test Voltage	AC 120V/60Hz

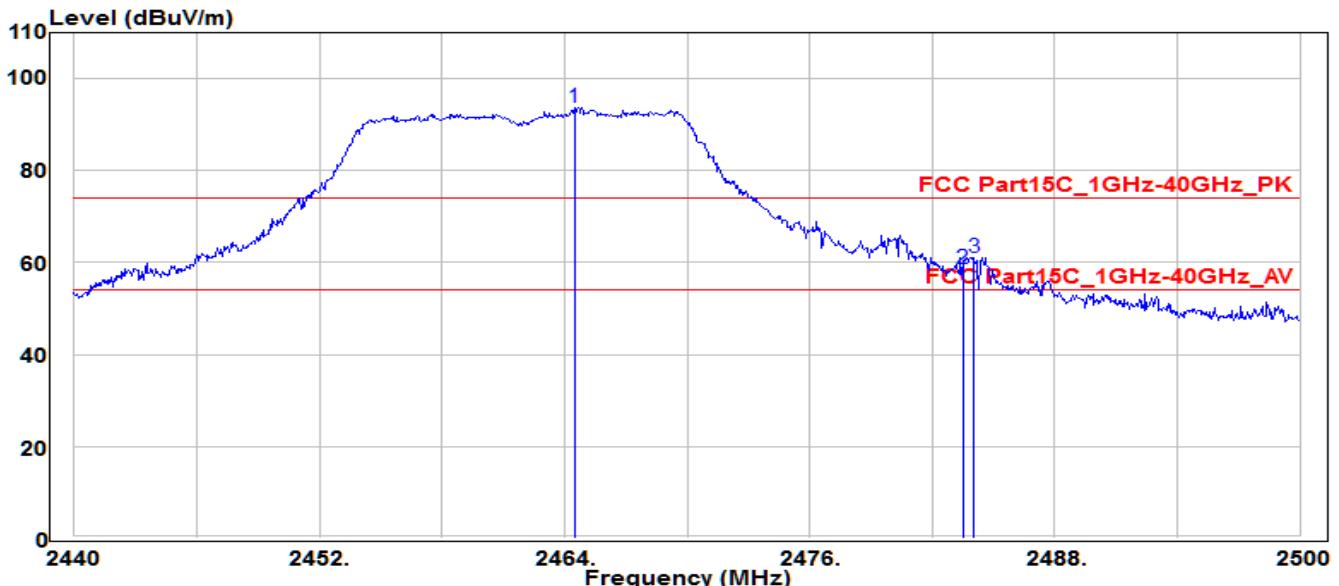


No		Frequency (MHz)	Reading (dB <sub>BuV</sub> )	C.F (dB)	Measurement (dB <sub>BuV/m</sub> )	Margin (dB)	Limit (dB <sub>BuV</sub> )	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2468.86	74.82	-2.26	72.56	18.56	54	155	290	Average
2	*	2483.5	36.9	-2.25	34.65	-19.35	54	155	290	Average
3		2483.86	36.52	-2.25	34.27	-19.73	54	155	290	Average

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F ( Correction Factor ) °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH11	Test Voltage	AC 120V/60Hz

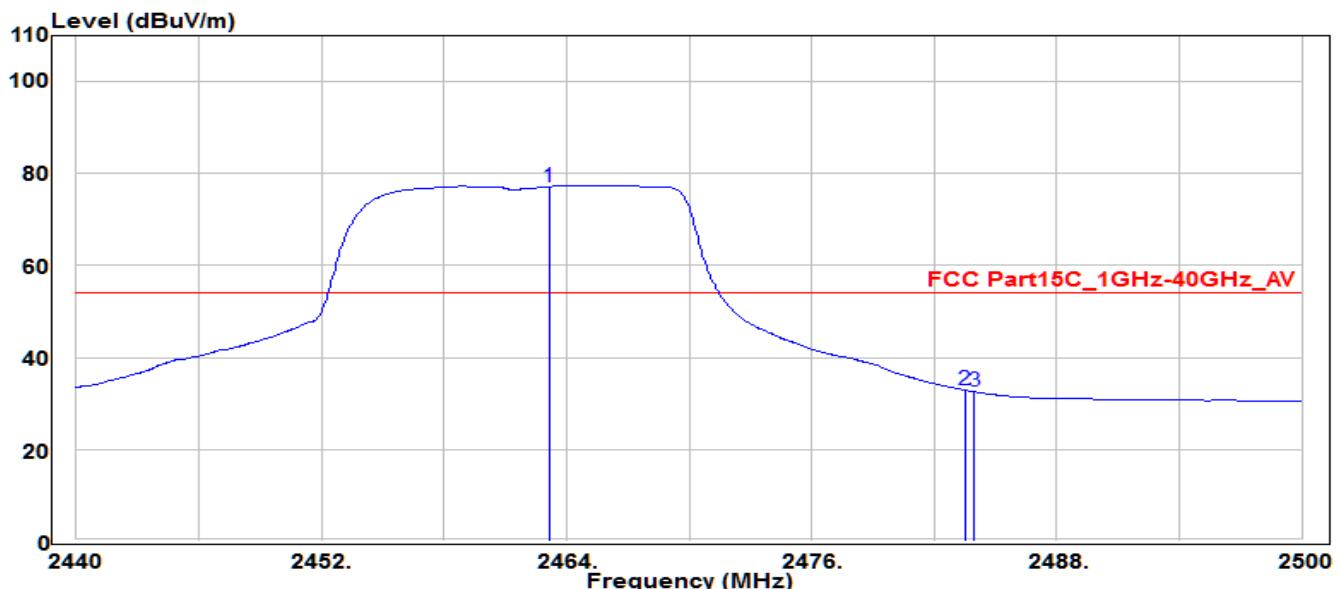


No		Frequency (MHz)	Reading (dB <sub>BuV</sub> )	C.F (dB)	Measurement (dB <sub>BuV/m</sub> )	Margin (dB)	Limit (dB <sub>BuV</sub> )	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2464.48	95.76	-2.07	93.69	19.69	74	160	320	Peak
2		2483.5	60.77	-2.08	58.69	-15.31	74	160	320	Peak
3	*	2484.04	63.14	-2.08	61.06	-12.94	74	160	320	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F ( Correction Factor ) °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE2-CH11	Test Voltage	AC 120V/60Hz

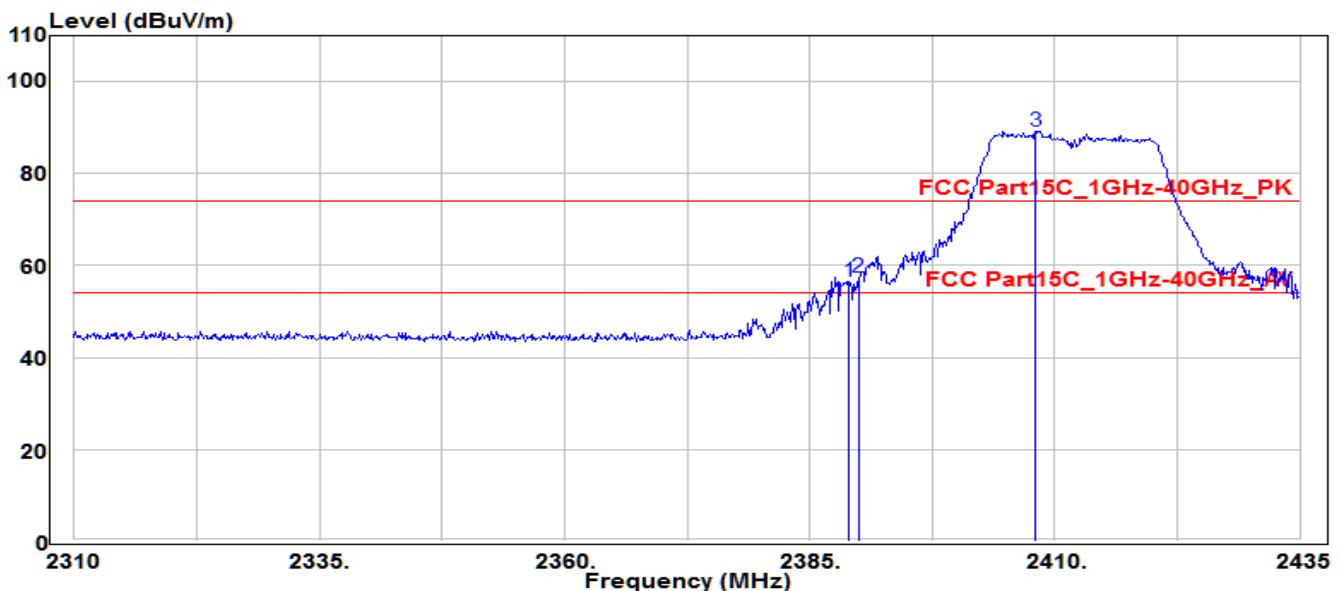


No		Frequency (MHz)	Reading (dB <sub>BuV</sub> )	C.F (dB)	Measurement (dB <sub>BuV/m</sub> )	Margin (dB)	Limit (dB <sub>BuV</sub> )	Height (cm)	Angle (deg)	Remark (QP/PK/Avg)
1		2463.16	79.4	-2.25	77.15	23.15	54	160	320	Average
2	*	2483.5	35.15	-2.25	32.9	-21.1	54	160	320	Average
3		2483.98	34.81	-2.24	32.57	-21.43	54	160	320	Average

Note :

4. " \* " means the worst value in this measurement data .
5. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) .
6. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F ( Correction Factor ) .

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE3-CH01	Test Voltage	AC 120V/60Hz

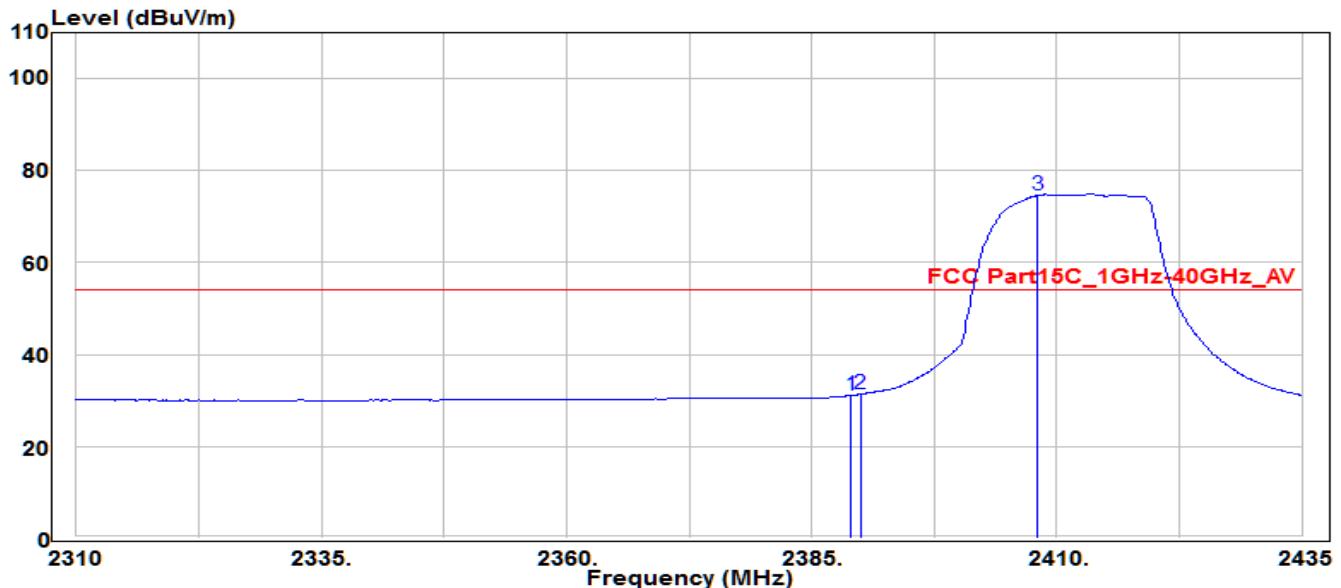


No		Frequency (MHz)	Reading (dB <sub>BuV</sub> )	C.F (dB)	Measurement (dB <sub>BuV/m</sub> )	Margin (dB)	Limit (dB <sub>BuV</sub> )	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2389	58.31	-1.83	56.48	-17.52	74	150	320	Peak
2	*	2390	59.34	-1.84	57.5	-16.5	74	150	320	Peak
3		2408	91.12	-1.9	89.22	15.22	74	150	320	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F ( Correction Factor ) °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE3-CH01	Test Voltage	AC 120V/60Hz

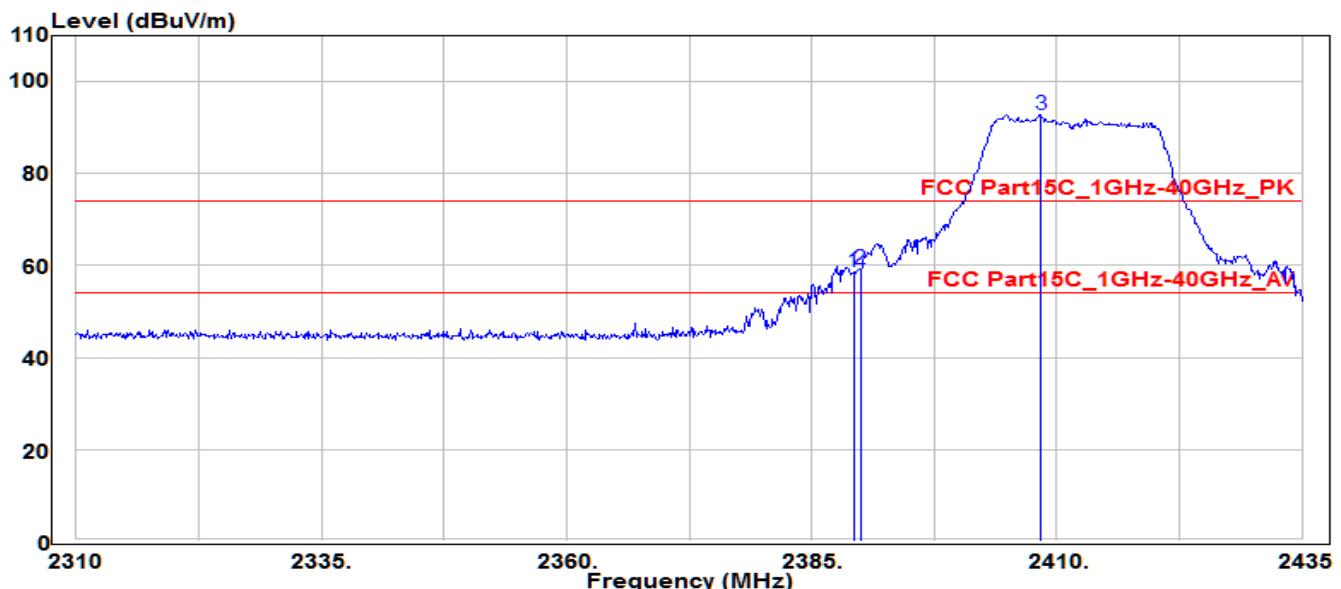


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2389	33.48	-2.35	31.13	-22.87	54	150	320	Average
2	*	2390	33.73	-2.36	31.37	-22.63	54	150	320	Average
3		2408	76.94	-2.32	74.62	20.62	54	150	320	Average

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dBuV/m) = Reading(dBuV) + C.F ( Correction Factor ) °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE3-CH01	Test Voltage	AC 120V/60Hz

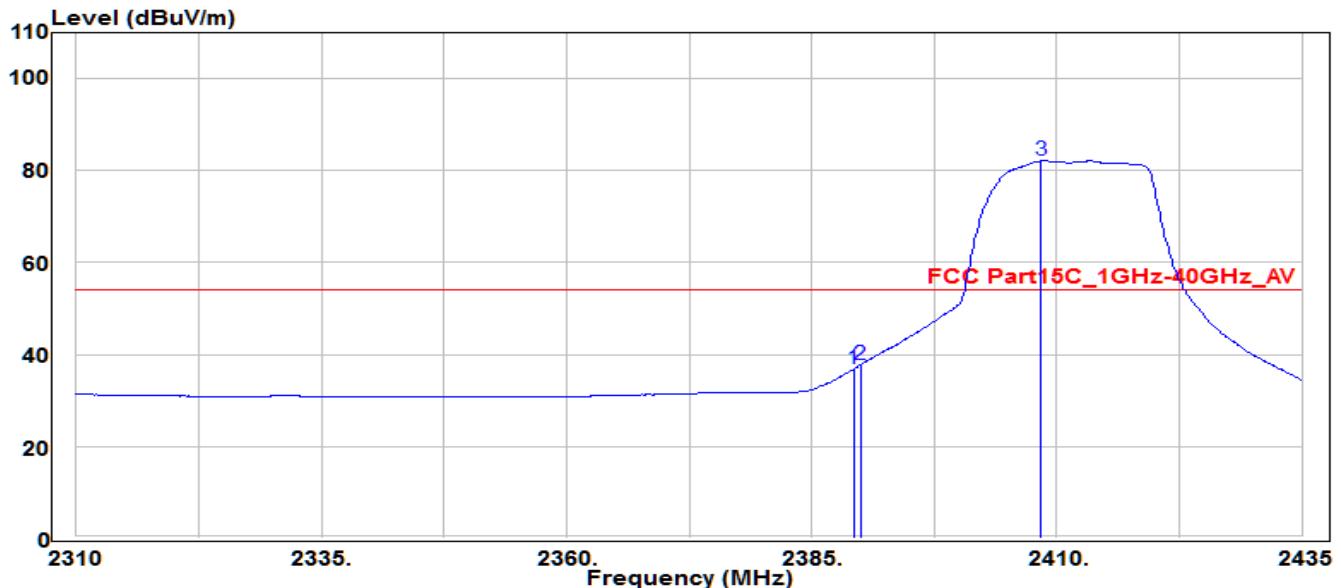


No		Frequency (MHz)	Reading (dB <sub>B</sub> V)	C.F (dB)	Measurement (dB <sub>B</sub> V/m)	Margin (dB)	Limit (dB <sub>B</sub> V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2389.25	60.39	-1.83	58.56	-15.44	74	160	315	Peak
2	*	2390	61.23	-1.84	59.39	-14.61	74	160	315	Peak
3		2408.375	94.74	-1.9	92.84	18.84	74	160	315	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dB<sub>B</sub>V/m) = Reading(dB<sub>B</sub>V) + C.F ( Correction Factor ) °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE3-CH01	Test Voltage	AC 120V/60Hz

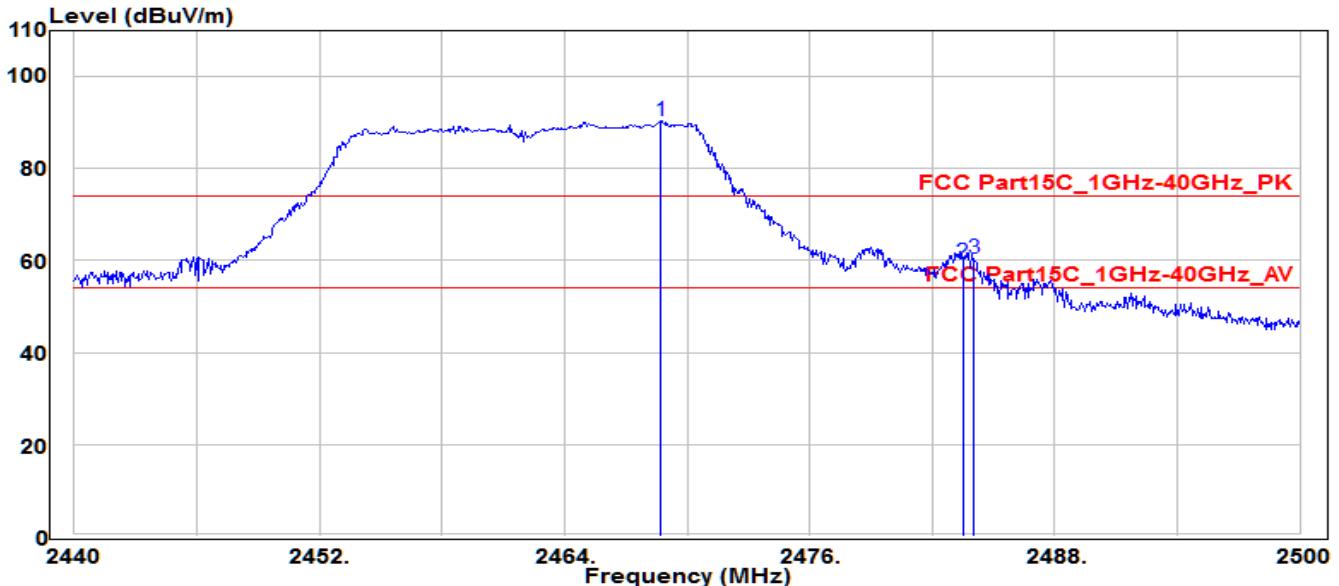


No		Frequency (MHz)	Reading (dB <sub>B</sub> V)	C.F (dB)	Measurement (dB <sub>B</sub> V/m)	Margin (dB)	Limit (dB <sub>B</sub> V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2389.25	39.22	-2.35	36.87	-17.13	54	150	320	Average
2	*	2390	40.25	-2.36	37.89	-16.11	54	150	320	Average
3		2408.375	84.41	-2.32	82.09	28.09	54	150	320	Average

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dB<sub>B</sub>V/m) = Reading(dB<sub>B</sub>V) + C.F ( Correction Factor ) °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE3-CH11	Test Voltage	AC 120V/60Hz

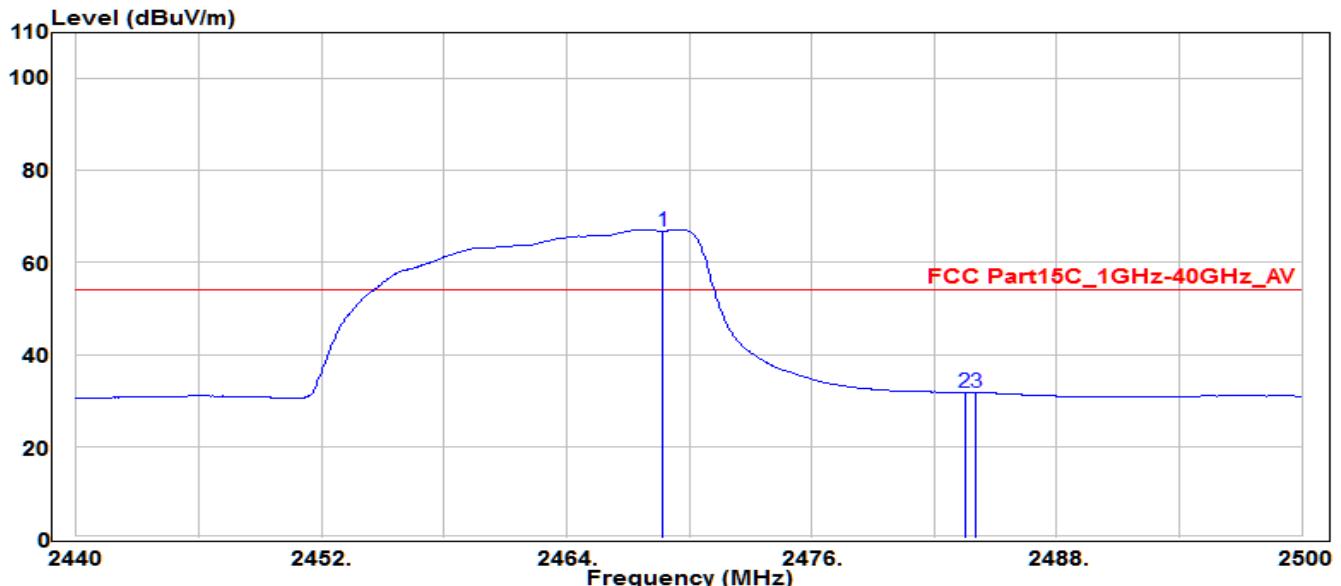


No		Frequency (MHz)	Reading (dB <sub>UV</sub> )	C.F (dB)	Measurement (dB <sub>UV</sub> /m)	Margin (dB)	Limit (dB <sub>UV</sub> )	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2468.74	92.49	-2.08	90.41	16.41	74	150	295	Peak
2		2483.5	61.6	-2.08	59.52	-14.48	74	150	295	Peak
3	*	2484.04	62.42	-2.08	60.34	-13.66	74	150	295	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dB<sub>UV</sub>/m) = Reading(dB<sub>UV</sub>) + C.F ( Correction Factor ) °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE3-CH11	Test Voltage	AC 120V/60Hz

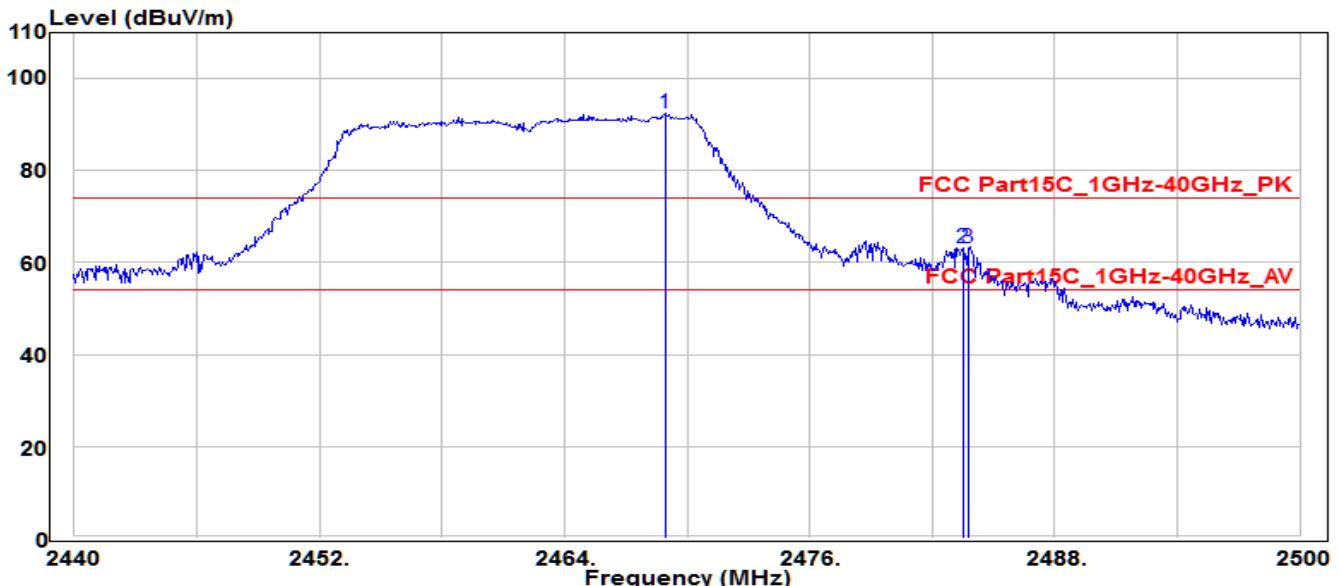


No		Frequency (MHz)	Reading (dB <sub>B</sub> V)	C.F (dB)	Measurement (dB <sub>B</sub> V/m)	Margin (dB)	Limit (dB <sub>B</sub> V)	Height (cm)	Angle (deg)	Remark (QP/PK/Avg)
1		2468.74	69.08	-2.26	66.82	12.82	54	150	295	Average
2	*	2483.5	34.08	-2.25	31.83	-22.17	54	150	295	Average
3		2484.04	34.02	-2.24	31.78	-22.22	54	150	295	Average

Note :

1. " \* " means the worst value in this measurement data .
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) .
3. Measurement (dB<sub>B</sub>V/m) = Reading(dB<sub>B</sub>V) + C.F ( Correction Factor ) .

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE3-CH11	Test Voltage	AC 120V/60Hz

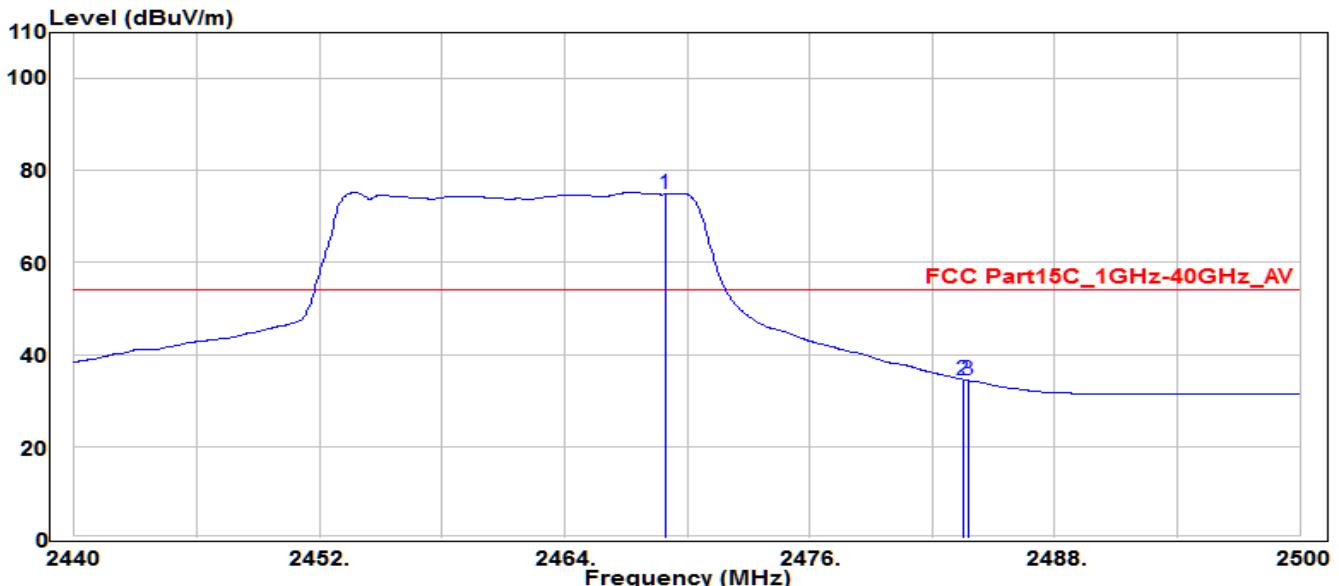


No		Frequency (MHz)	Reading (dB <sub>B</sub> V)	C.F (dB)	Measurement (dB <sub>B</sub> V/m)	Margin (dB)	Limit (dB <sub>B</sub> V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2468.92	94.71	-2.08	92.63	18.63	74	165	320	Peak
2		2483.5	65.12	-2.08	63.04	-10.96	74	165	320	Peak
3	*	2483.74	65.24	-2.08	63.16	-10.84	74	165	320	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dB<sub>B</sub>V/m) = Reading(dB<sub>B</sub>V) + C.F ( Correction Factor ) °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE3-CH11	Test Voltage	AC 120V/60Hz

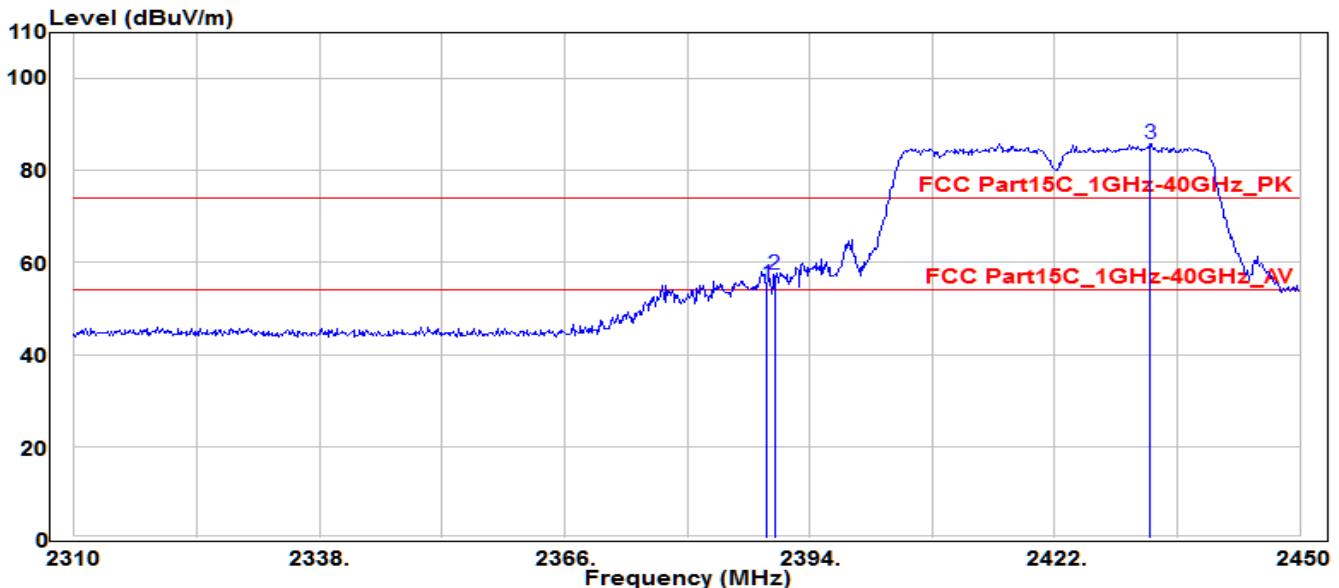


No		Frequency (MHz)	Reading (dB <sub>BuV</sub> )	C.F (dB)	Measurement (dB <sub>BuV/m</sub> )	Margin (dB)	Limit (dB <sub>BuV</sub> )	Height (cm)	Angle (deg)	Remark (QP/PK/Avg)
1		2468.92	77.09	-2.26	74.83	20.83	54	165	320	Average
2	*	2483.5	36.81	-2.25	34.56	-19.44	54	165	320	Average
3		2483.74	36.62	-2.25	34.37	-19.63	54	165	320	Average

Note :

1. " \* " means the worst value in this measurement data .
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) .
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F ( Correction Factor ) .

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE4-CH03	Test Voltage	AC 120V/60Hz

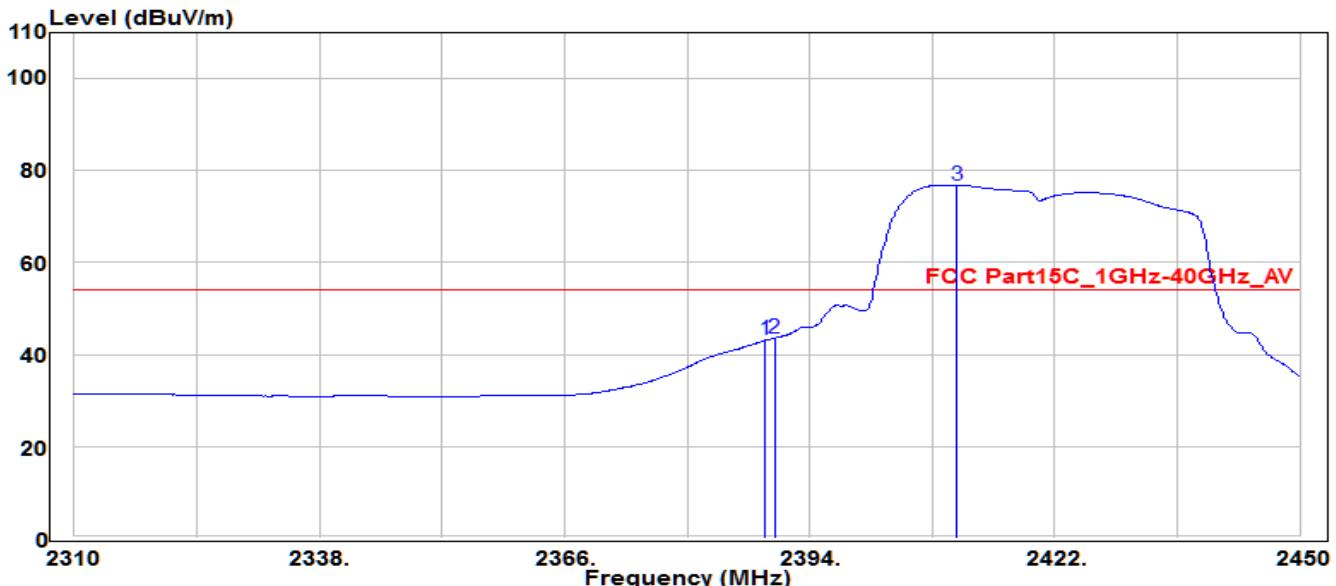


No		Frequency (MHz)	Reading (dB <sub>B</sub> V)	C.F (dB)	Measurement (dB <sub>B</sub> V/m)	Margin (dB)	Limit (dB <sub>B</sub> V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2389.1	57.16	-1.83	55.33	-18.67	74	150	310	Peak
2	*	2390	59.41	-1.84	57.57	-16.43	74	150	310	Peak
3		2432.92	87.75	-2	85.75	11.75	74	150	310	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dB<sub>B</sub>V/m) = Reading(dB<sub>B</sub>V) + C.F ( Correction Factor ) °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE4-CH03	Test Voltage	AC 120V/60Hz

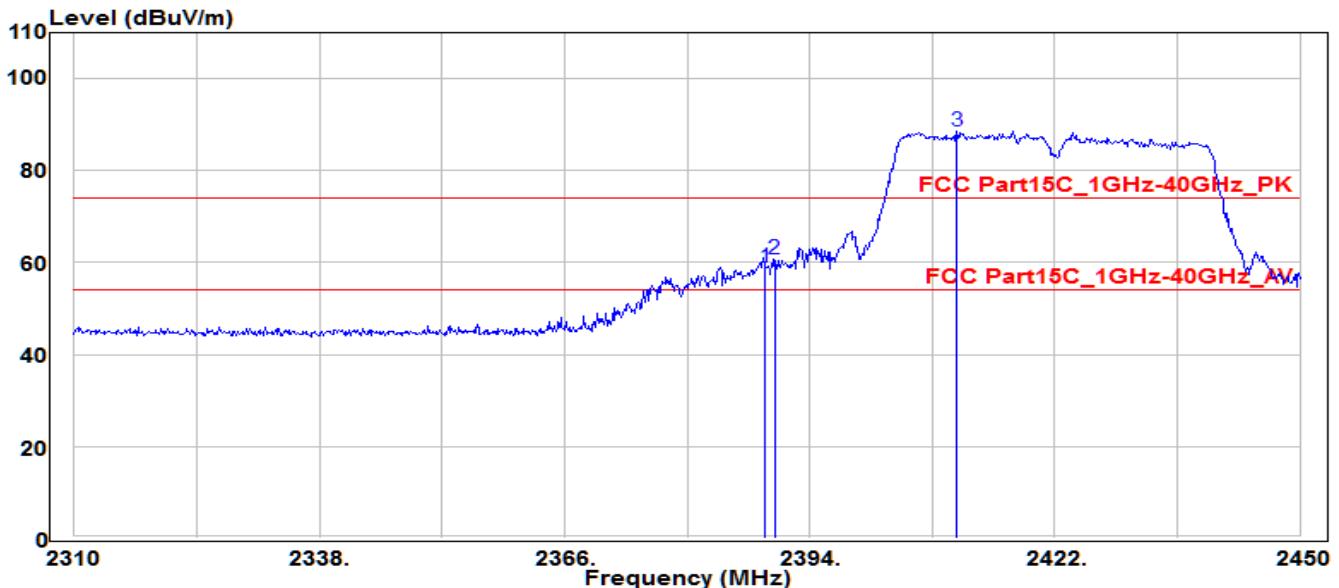


No		Frequency (MHz)	Reading (dB <sub>BuV</sub> )	C.F (dB)	Measurement (dB <sub>BuV/m</sub> )	Margin (dB)	Limit (dB <sub>BuV</sub> )	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2388.96	45.49	-2.35	43.14	-10.86	54	160	315	Average
2	*	2390	45.91	-2.36	43.55	-10.45	54	160	315	Average
3		2410.8	79.13	-2.32	76.81	22.81	54	160	315	Average

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F ( Correction Factor ) °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE4-CH03	Test Voltage	AC 120V/60Hz

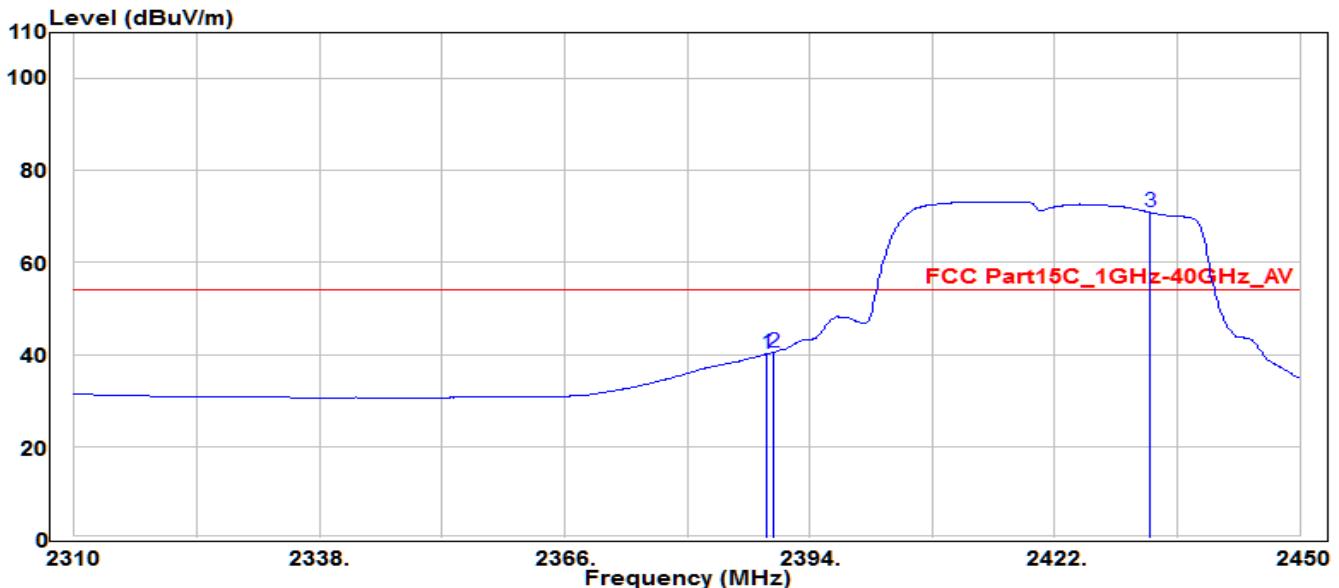


No		Frequency (MHz)	Reading (dB <sub>B</sub> V)	C.F (dB)	Measurement (dB <sub>B</sub> V/m)	Margin (dB)	Limit (dB <sub>B</sub> V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2388.96	60.69	-1.83	58.86	-15.14	74	160	315	Peak
2	*	2390	62.46	-1.84	60.62	-13.38	74	160	315	Peak
3		2410.8	90.53	-1.92	88.61	14.61	74	160	315	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dB<sub>B</sub>V/m) = Reading(dB<sub>B</sub>V) + C.F ( Correction Factor ) °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE4-CH03	Test Voltage	AC 120V/60Hz

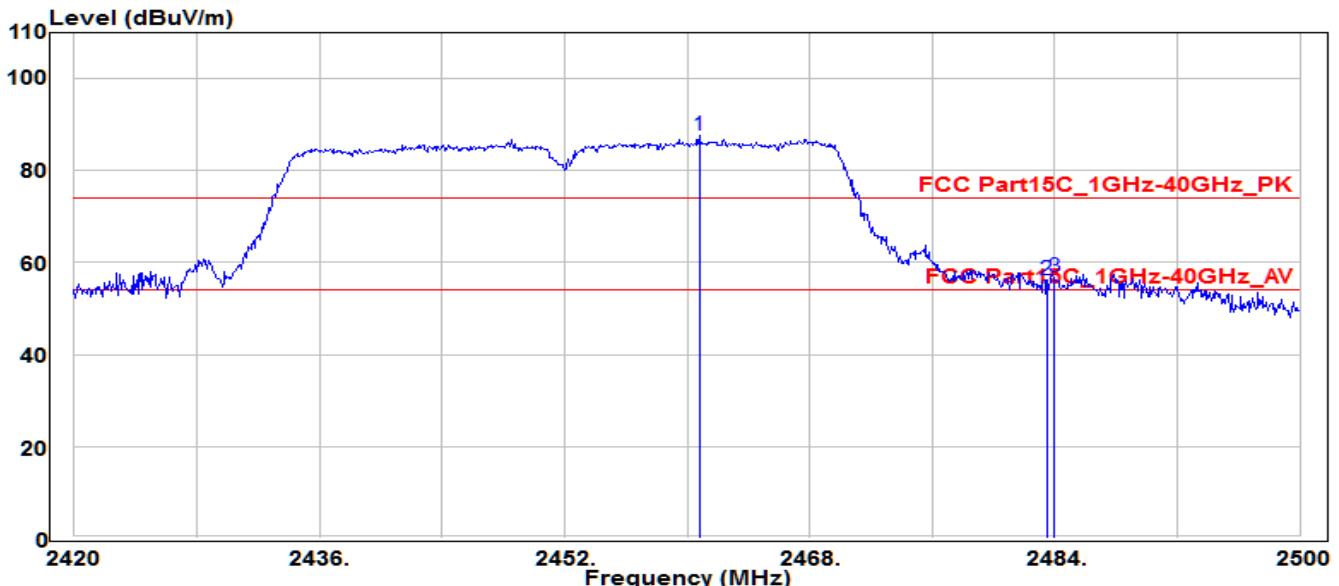


No		Frequency (MHz)	Reading (dB <sub>BuV</sub> )	C.F (dB)	Measurement (dB <sub>BuV/m</sub> )	Margin (dB)	Limit (dB <sub>BuV</sub> )	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2388.96	42.51	-2.35	40.16	-13.84	54	150	310	Average
2	*	2390	42.92	-2.36	40.56	-13.44	54	150	310	Average
3		2410.8	73.18	-2.29	70.89	16.89	54	150	310	Average

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F ( Correction Factor ) °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE4-CH09	Test Voltage	AC 120V/60Hz

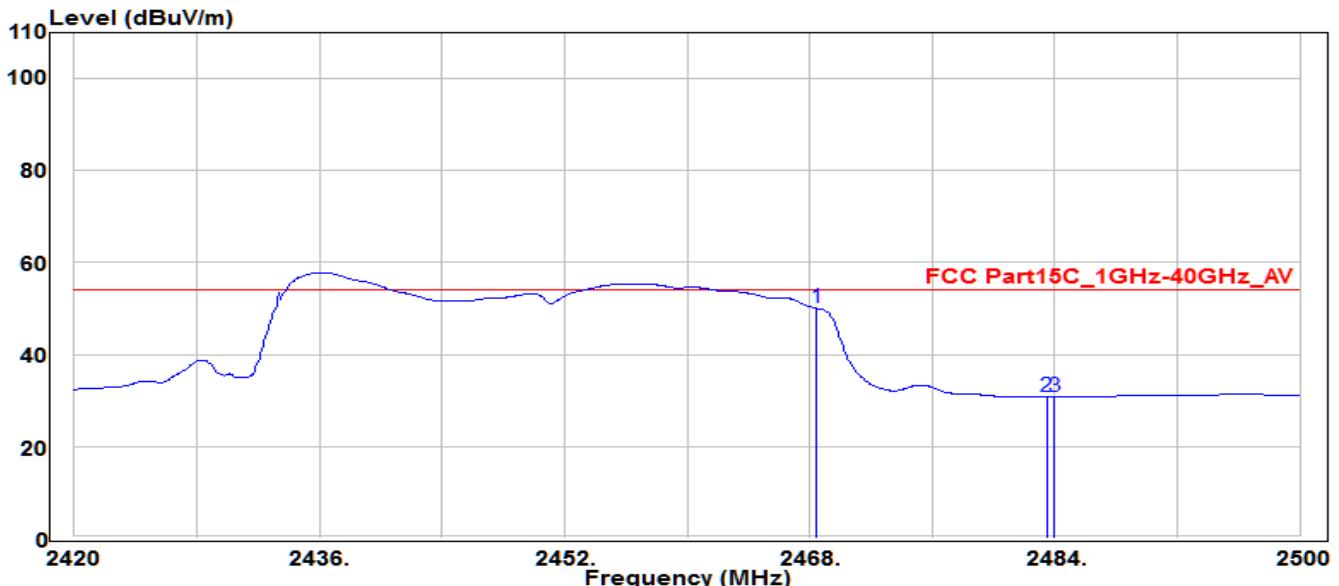


No		Frequency (MHz)	Reading (dB <sub>B</sub> V)	C.F (dB)	Measurement (dB <sub>B</sub> V/m)	Margin (dB)	Limit (dB <sub>B</sub> V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2460.8	89.77	-2.07	87.7	13.7	74	150	290	Peak
2		2483.5	58.36	-2.08	56.28	-17.72	74	150	290	Peak
3	*	2484	58.98	-2.08	56.9	-17.1	74	150	290	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dB<sub>B</sub>V/m) = Reading(dB<sub>B</sub>V) + C.F ( Correction Factor ) °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Horizontal	Site / Engineer	AC1 / Peter
Test Mode	MODE4-CH09	Test Voltage	AC 120V/60Hz

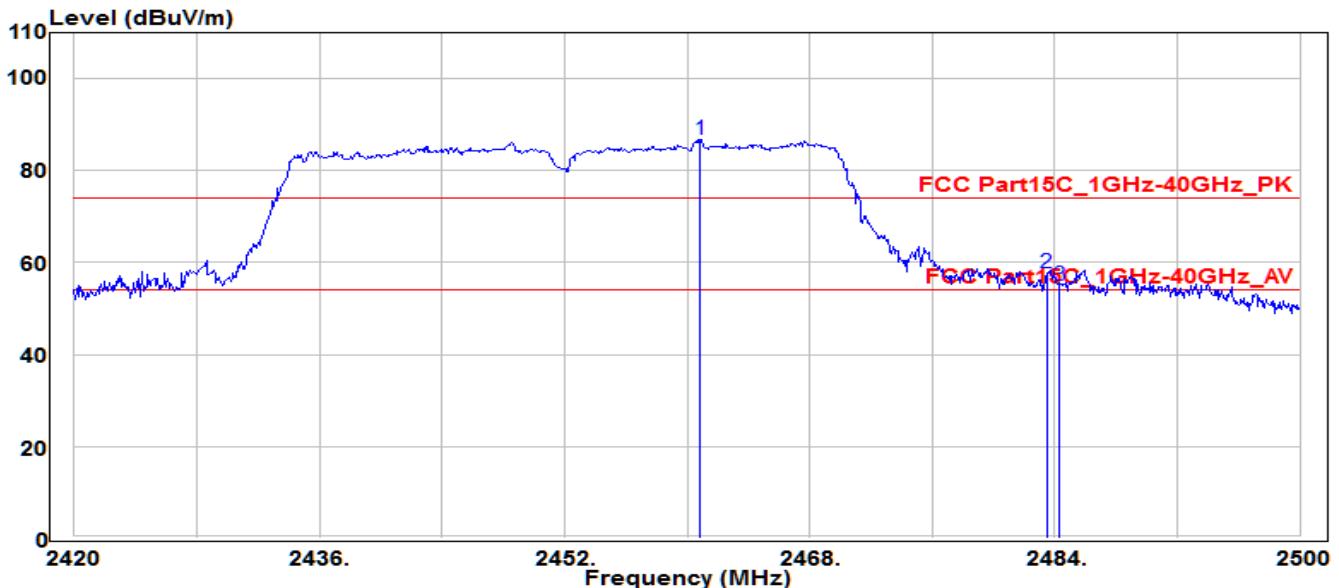


No		Frequency (MHz)	Reading (dB <sub>BuV</sub> )	C.F (dB)	Measurement (dB <sub>BuV/m</sub> )	Margin (dB)	Limit (dB <sub>BuV</sub> )	Height (cm)	Angle (deg)	Remark (QP/PK/Avg)
1		2468.48	52.32	-2.26	50.06	-3.94	54	155	295	Average
2		2483.5	33.01	-2.25	30.76	-23.24	54	155	295	Average
3	*	2484	33.01	-2.24	30.77	-23.23	54	155	295	Average

Note :

1. " \* " means the worst value in this measurement data .
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) .
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F ( Correction Factor ) .

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE4-CH09	Test Voltage	AC 120V/60Hz

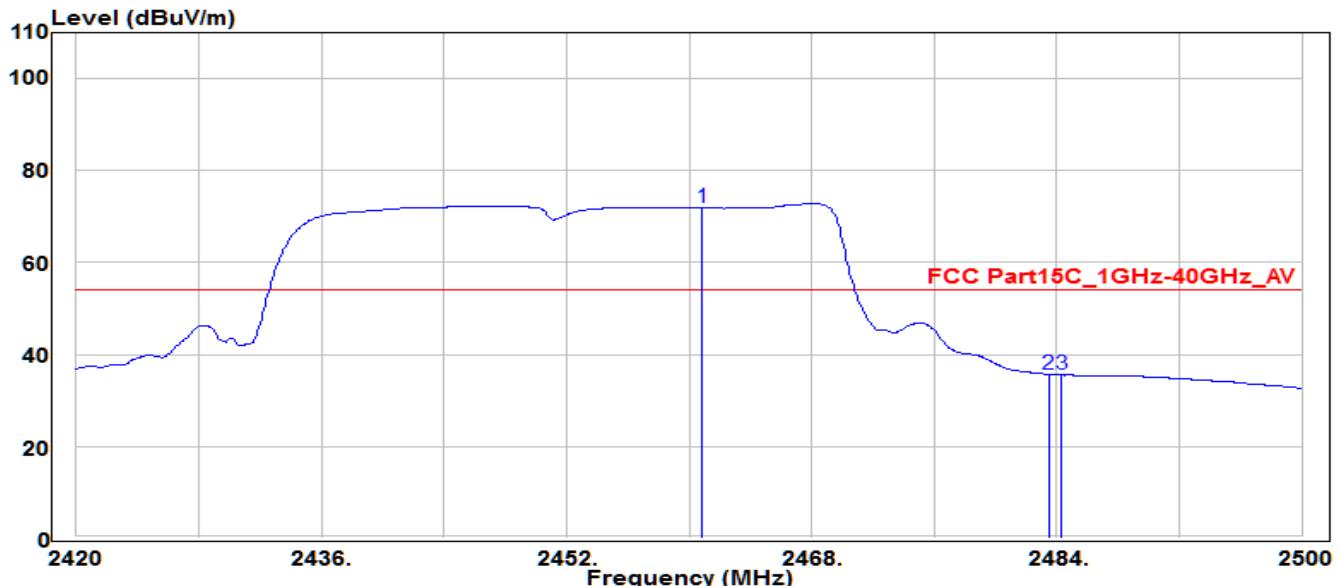


No		Frequency (MHz)	Reading (dB <sub>BuV</sub> )	C.F (dB)	Measurement (dB <sub>BuV/m</sub> )	Margin (dB)	Limit (dB <sub>BuV</sub> )	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2460.88	88.78	-2.07	86.71	12.71	74	155	295	Peak
2	*	2483.5	59.79	-2.08	57.71	-16.29	74	155	295	Peak
3		2484.32	57.17	-2.08	55.09	-18.91	74	155	295	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F ( Correction Factor ) °

EUT	Liquid crystal display devices	Test Date	2017/06/02
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 61%
Polarity	Vertical	Site / Engineer	AC1 / Peter
Test Mode	MODE4-CH09	Test Voltage	AC 120V/60Hz



No		Frequency (MHz)	Reading (dB <sub>BuV</sub> )	C.F (dB)	Measurement (dB <sub>BuV/m</sub> )	Margin (dB)	Limit (dB <sub>BuV</sub> )	Height (cm)	Angle (deg)	Remark (QP/PK/Avg)
1		2460.88	74.2	-2.26	71.94	17.94	54	150	290	Average
2	*	2483.5	37.93	-2.25	35.68	-18.32	54	150	290	Average
3		2484.32	37.77	-2.24	35.53	-18.47	54	150	290	Average

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F ( Correction Factor ) °

## 7.4. AC Conducted Emissions Measurement

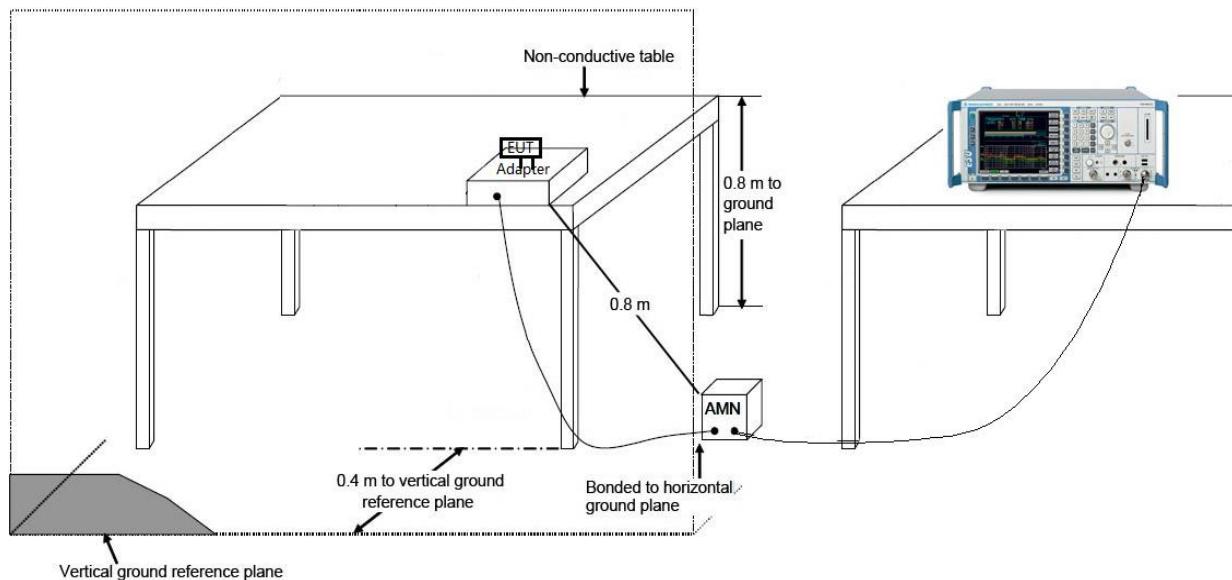
### 7.5.1 Test Limit

FCC Part 15 Subpart C Paragraph 15.207 / RSS-Gen Limits		
Frequency (MHz)	QP (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

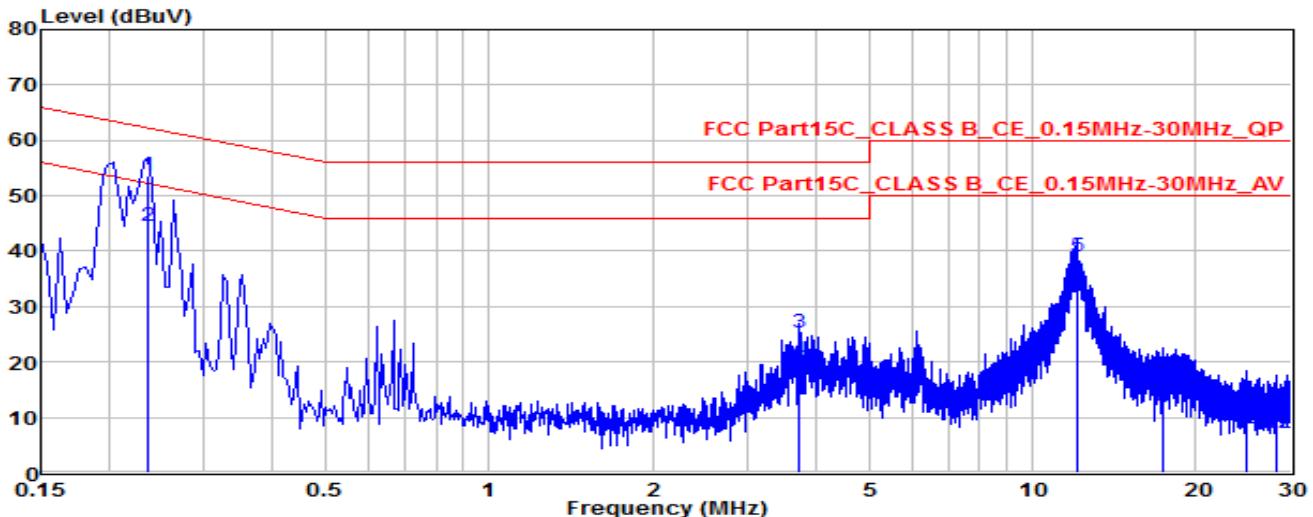
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 7.5.2 Test Setup



### 7.5.3 Test Result

EUT	Liquid crystal display devices	Test Date	2017/06/09
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	24°C / 55%
Polarity	Line1	Site / Engineer	SR2 / Peter
Test Mode	MODE1	Test Voltage	AC120V/60Hz

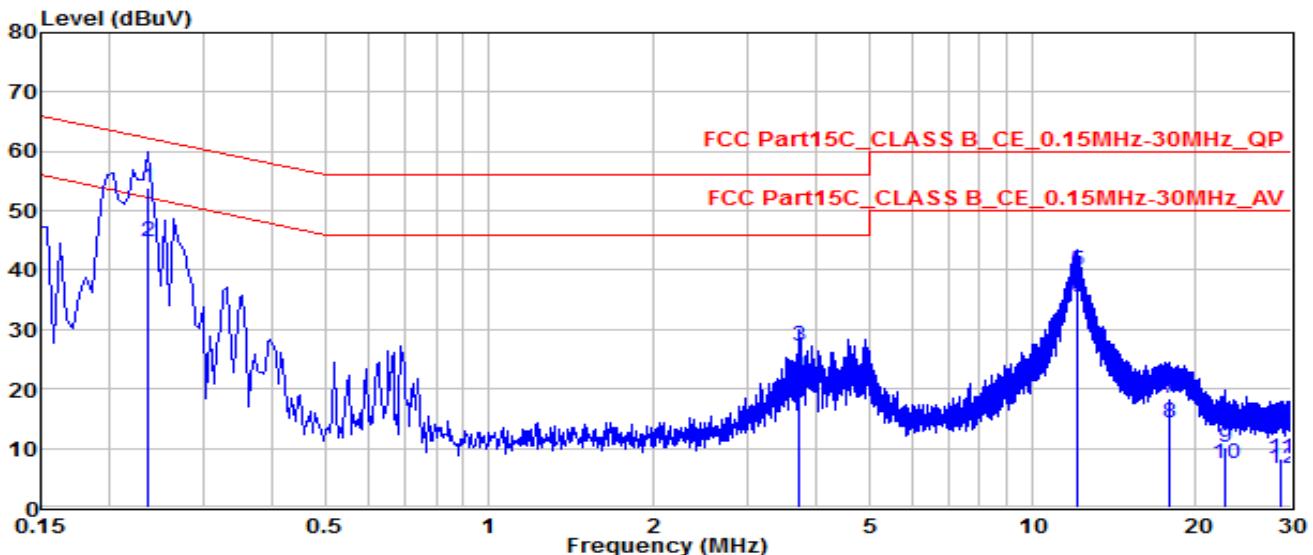


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/Avg)
1	*	0.23549	43.53	9.96	53.49	-8.76	62.25	QP
2	*	0.23549	34.56	9.96	44.52	-7.73	52.25	Average
3		3.714	15.51	9.8	25.31	-30.69	56	QP
4		3.714	10.52	9.8	20.32	-25.68	46	Average
5		12.069	29.12	9.89	39.01	-20.99	60	QP
6		12.069	24.71	9.89	34.6	-15.4	50	Average
7		17.46	5.85	9.98	15.83	-44.17	60	QP
8		17.46	1.98	9.98	11.96	-38.04	50	Average
9		24.695	0.31	10.01	10.32	-49.68	60	QP
10		24.695	-1.97	10.01	8.04	-41.96	50	Average
11		28.236	-1.2	10.03	8.83	-51.17	60	QP
12		28.236	-2.94	10.03	7.09	-42.91	50	Average

Note :

1. " \* " means the worst value in this measurement data .
2. C.F ( Correction Factor ) = Factor (dB)+ Cable Loss (dB) .
3. Measurement (dBuV) = Reading(dBuV)+ C.F ( Correction Factor ) .
4. Other mode was also verified. The test results shown represent the worst case emissions .

EUT	Liquid crystal display devices	Test Date	2017/06/09
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	24°C / 55%
Polarity	Neutral	Site / Engineer	SR2 / Peter
Test Mode	MODE1	Test Voltage	AC120V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1		0.23549	44.01	9.95	53.96	-8.29	62.25	QP
2		0.23549	34.8	9.95	44.75	-7.5	52.25	Average
3		3.714	17.34	9.81	27.15	-28.85	56	QP
4		3.714	12.22	9.81	22.03	-23.97	46	Average
5		12.074	29.83	9.92	39.75	-20.25	60	QP
6		12.074	25.41	9.92	35.33	-14.67	50	Average
7		17.878	8.4	10.04	18.44	-41.56	60	QP
8		17.878	4.2	10.04	14.24	-35.76	50	Average
9	*	22.679	-0.03	10.07	10.04	-49.96	60	QP
10	*	22.679	-2.55	10.07	7.52	-42.48	50	Average
11		28.668	-1.95	10.12	8.17	-51.83	60	QP
12		28.668	-3.53	10.12	6.59	-43.41	50	Average

**Note :**

1. " \* " means the worst value in this measurement data .
2. C.F ( Correction Factor ) = Factor (dB)+ Cable Loss (dB) .
3. Measurement (dBuV) = Reading(dBuV)+ C.F ( Correction Factor ).
4. Other channel was also verified. The test results shown represent the worst case emissions .

## 8. CONCLUSION

The data collected relate only the item(s) tested and show that the Host Model Number :

DS552LT4-1 , Contains FCC ID: 2AKWYPFB201 is in compliance with Part 15C of the FCC Rules.

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The End

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