



## ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

### UN-INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART B REQUIREMENT

OF

**Product Name:** Mobile Phone  
**Brand Name:** Sony  
**Type No.:** PM-0854-BV  
**Added Model(s):** N/A  
**Model Difference:** N/A  
**FCC ID:** PY7-PM0854  
**Based on SGS EMC Report No.:** EM/2014/B0010  
**Issue Date:** Jan. 16, 2015  
**FCC Rule Part:** FCC Part 15:2014, Subpart B, Class B  
**Prepared for:** Sony Mobile Communications AB  
Nya Vattentornet 22188 Lund/SWEDEN  
SGS Taiwan Ltd.  
Electronics & Communication Laboratory  
**Prepared by:** No.134, Wu Kung Road, New Taipei Industrial  
Park, Wuku District, New Taipei City, Taiwan  
24803

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## VERIFICATION OF COMPLIANCE

**Applicant:** Sony Mobile Communications AB  
Nya Vattentornet 22188 Lund/SWEDEN

**Manufacturer:** Sony Mobile Communications AB  
Nya Vattentornet 22188 Lund/SWEDEN

**Product Name:** Mobile Phone

**Brand Name:** Sony

**Type No.:** PM-0854-BV

**Added Model(s):** N/A

**Model Difference:** N/A

**FCC ID:** PY7-PM0854

**File Number:** EM/2014/B0038

**Date of EUT Received:** Nov. 14, 2014

**Date of test:** Nov. 18, 2014 ~ Jan. 03, 2015

**Issue Date:** Jan. 16, 2015

**Standards:** FCC Part 15:2014, Subpart B, Class B

### We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2009) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15B, Class B. The test results of this report relate only to the tested sample identified in this report.

**Tested By:** Eddy Cheng **Date:** Jan. 16, 2015

**Eddy Cheng / Engineer**

**Prepared By:** Fanny Chen **Date:** Jan. 16, 2015

**Fanny Chen / Clerk**

**Approved By:** Victor Wen **Date:** Jan. 16, 2015

**Victor Wen / Assistant Manager**

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## Revision History

Report Number	Revision	Description	Issue Date
EM/2014/B0038	Rev.00	Initial Version	Jan. 12, 2015
EM/2014/B0038	Rev.01	Revised HT40 2422~2562 channel	Jan. 16, 2015

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

t (886-2) 2299-3279

f (886-2) 2298-0488

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f (886-2) 2298-0488

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## 1. General Information

### 1.1 Product description

General:

Product Name:	Mobile Phone	
Brand Name:	Sony	
Type No.:	PM-0854-BV	
Added Model(s):	N/A	
Model Difference:	N/A	
Data Cable (USB):	Model No.: EC450, Supplier: K-one Type No.: AI-0700	
Simple Hands-free (SHF):	Model No.: MH410c, Supplier: Foster Electric Type No.: AG-1100	
Car Charger:	Model No.: AN400, Supplier: Salcomp Type No.: CAA-0003013	
BT PHF:	Model No.: SBH20, Supplier: Sony Type No.: RD-0010 coupling with Simple Hands Free (Model No.: MH755, Supplier: BALDA, Type No.: AG-0503)	
Hardware Version:	A	
Software Version:	25.0.A.0.33	
Power Supply:	3.8Vdc	
	Battery:	Model No.: LIS1574ERPC, Supplier: Sony Type No.: N/A
	Adapter:	Model No.: EP800, Supplier: Salcomp Type No.: CAA-0002016-US
IMEI:	004402453548491	

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## Bluetooth BR+EDR:

Bluetooth Version:	V4.1 dual mode + HS
Channel number:	79 channels
Modulation type:	Frequency Hopping Spread Spectrum
Transmit Power:	5.38dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	<= 0.4s
Antenna Designation:	PIFA Antenna, Gain: 2.52dBi

## Bluetooth Low Energy:

Frequency Range:	2402 – 2480MHz
Bluetooth Version:	V4.1 dual mode + HS
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	-1.49dBm (Peak)
Antenna Designation:	PIFA Antenna, Gain: 2.52dBi

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## WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology
11b/g	2412-2462	11	b: 18.87dBm g: 22.66dBm	DSSS, OFDM
11n	HT20 2412-2462	11	HT20: 21.09dBm	OFDM
11n	HT40 2422-2452	7	HT40: 22.22dBm	OFDM
Antenna Designation:		PIFA Antenna, Gain: 2.52dBi		
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Transition Rate:		802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps 802.11 n_40MHz: 13.5 – 135Mbps		

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## WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Avg. Power	Modulation Technology
11a	5150~5250	4	13.96dBm	OFDM
	5250~5350	4	13.99dBm	
	5470~5725	8	13.96dBm	
	5725-5850	5	13.79dBm	
11n	HT20 5150~5250	4	HT20: 12.99dBm	OFDM
	HT20 5250~5350	4	HT20: 12.95dBm	
	HT20 5470~5725	8	HT20: 12.99dBm	
	HT20 5725-5850	5	HT20: 12.79dBm	
11n	HT40 5150~5250	2	HT40: 11.95dBm	OFDM
	HT40 5250~5350	2	HT40: 11.93dBm	
	HT40 5470~5725	3	HT40: 11.96dBm	
	HT40 5725-5850	2	HT40: 11.98dBm	
Antenna Designation	PIFA Antenna, 5GHz Gain: -0.54dBi (5150MHz-5250MHz) 5GHz Gain: -0.89dBi (5250MHz-5350MHz) 5GHz Gain: -0.34dBi (5470MHz-5725MHz) 5GHz Gain: -0.19dBi (5725MHz-5850MHz)			
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM			
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 65.0Mbps 802.11 n_40MHz: 13.5 – 135.0Mbps			

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## GSM / WCDMA/ LTE:

Cellular Standards Frequency and Power	Phone Range	Operating Frequency		Rated Power
		GSM/GPRS 850, Class 12	824.2 MHz– 848.8 MHz	33dBm
		EDGE 850, Class 12	824.2 MHz– 848.8 MHz	27dBm
		GSM/GPRS 1900, Class 12	1850.2MHz – 1909.8MHz	30dBm
		EDGE 1900, Class 12	1850.2MHz – 1909.8MHz	26dBm
		WCDMA/HSUPA/HSDPA /HSPA+ Band II	1852.4MHz – 1907.6MHz	24dBm
		WCDMA/HSUPA/HSDPA /HSPA+ Band IV	1712.4MHz - 1752.6MHz	24dBm
		WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24dBm
		1.4MHz BW LTE-Band 2	1850MHz– 1909.3MHz	23dBm
		3MHz BW LTE-Band 2	1851.5MHz – 1908.5MHz	23dBm
		5MHz BW LTE-Band 2	1852.5MHz – 1907.5MHz	23dBm
		10MHz BW LTE-Band 2	1855MHz – 1905MHz	23dBm
		15MHz BW LTE-Band 2	1857.5MHz – 1902.5MHz	23dBm
		20MHz BW LTE-Band 2	1860MHz – 1900MHz	23dBm
		1.4MHz BW LTE-Band 4	1710.7MHz– 1754.3MHz	23dBm
		3MHz BW LTE-Band 4	1711.5MHz – 1753.5MHz	23dBm
		5MHz BW LTE-Band 4	1712.5MHz – 1752.5MHz	23dBm
		10MHz BW LTE-Band 4	1715MHz – 1750MHz	23dBm
		15MHz BW LTE-Band 4	1717.5MHz – 1747.5MHz	23dBm
		20MHz BW LTE-Band 4	1720MHz – 1745MHz	23dBm
		5MHz BW LTE-Band 5	2502.5MHz – 2567.5MHz	23dBm
		10MHz BW LTE-Band 5	2505.0MHz – 2565.0MHz	23dBm
		15MHz BW LTE-Band 5	2507.5MHz – 2562.5MHz	23dBm
		20MHz BW LTE-Band 5	2510.0MHz – 2560MHz	23dBm

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		Operating Frequency		Rated Power
Cellular Standards Frequency and Power	Phone Range	5MHz BW LTE-Band 7	2502.5MHz – 2567.5MHz	23dBm
		10MHz BW LTE-Band 7	2505.0MHz – 2565.0MHz	23dBm
		15MHz BW LTE-Band 7	2507.5MHz – 2562.5MHz	23dBm
		20MHz BW LTE-Band 7	2510.0MHz – 2560MHz	23dBm
Type of Emission:		GSM 850: 252KGXW, GSM 1900: 251KGXW GPRS 850: 248KGXW, GPRS 1900: 253KGXW EDGE 850: 259KG7W, EDGE 1900: 253KG7W WCDMA Band II: 4M21F9W, WCDMA Band IV: 4M22F9W, WCDMA Band V: 4M21F9W HSDPA Band II: 4M21F9W, HSDPA Band IV: 4M21F9W, HSDPA Band V: 4M21F9W HSUPA Band II: 4M21F9W, HSUPA Band IV: 4M22F9W, HSUPA Band V: 4M22F9W 1.4MHz BW LTE-Band 2 QPSK:1M10G7D 1.4MHz BW LTE-Band 2 16QAM: 1M10D7W 3MHz BW LTE-Band 2 QPSK: 2M71G7D 3MHz BW LTE-Band 2 16QAM: 2M71D7W 5MHz BW LTE-Band 2 QPSK: 4M53G7D 5MHz BW LTE-Band 2 16QAM: 4M53D7W 10MHz BW LTE-Band 2 QPSK: 9M01G7D 10MHz BW LTE-Band 2 16QAM: 9M02D7W 15MHz BW LTE-Band 2 QPSK: 13M52G7D 15MHz BW LTE-Band 2 16QAM: 13M49D7W 20MHz BW LTE-Band 2 QPSK: 18M01G7D 20MHz BW LTE-Band 2 16QAM: 17M98D7W 1.4MHz BW LTE-Band 4 QPSK:1M09G7D 1.4MHz BW LTE-Band 4 16QAM: 1M10D7W 3MHz BW LTE-Band 4 QPSK: 2M71G7D 3MHz BW LTE-Band 4 16QAM: 2M71D7W 5MHz BW LTE-Band 4 QPSK: 4M51G7D 5MHz BW LTE-Band 4 16QAM: 4M53D7W 10MHz BW LTE-Band 4 QPSK: 9M00G7D 10MHz BW LTE-Band 4 16QAM: 8M97D7W 15MHz BW LTE-Band 4 QPSK: 13M50G7D 15MHz BW LTE-Band 4 16QAM: 13M48D7W 20MHz BW LTE-Band 4 QPSK: 17M99D7W 20MHz BW LTE-Band 4 16QAM: 17M98D7W		

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台灣檢驗科技股份有限公司

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## Type of Emission:

5MHz BW LTE-Band 5 QPSK: 1M10G7D  
 5MHz BW LTE-Band 5 16QAM: 1M10D7W  
 10MHz BW LTE-Band 5 QPSK: 2M71G7D  
 10MHz BW LTE-Band 5 16QAM: 2M71D7W  
 15MHz BW LTE-Band 5 QPSK: 4M53G7D  
 15MHz BW LTE-Band 5 16QAM: 4M54D7W  
 20MHz BW LTE-Band 5 QPSK: 9M02G7D  
 20MHz BW LTE-Band 5 16QAM: 9M05D7W  
 5MHz BW LTE-Band 7 QPSK: 4M54G7D  
 5MHz BW LTE-Band 7 16QAM: 4M53D7W  
 10MHz BW LTE-Band 7 QPSK: 8M98G7D  
 10MHz BW LTE-Band 7 16QAM: 8M99D7W  
 15MHz BW LTE-Band 7 QPSK: 13M49G7D  
 15MHz BW LTE-Band 7 16QAM: 13M46D7W  
 20MHz BW LTE-Band 7 QPSK: 17M94G7D  
 20MHz BW LTE-Band 7 16QAM: 18M01D7W

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

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## 1.2 Test Plan

### Test Plan:

PM-0854-BV	Config 1	Config 2
Applicable standard	FCC 15B	
Accessories	EUT + USB Cable(EC450) + SHF(MH410c)	EUT + AC Adapter(EP800) + USB Cable(EC450) + SHF(MH410c)
	DATA Link (USB)	CAMERA
	DATA Link(USB) + Idle(WWAN.WIFI.BT.GPS)	FULL SYSTEM + Idle(WWAN.WIFI.BT.GPS)
Description		
radiated emission	DATA Link (USB)	Recording/play recording/MP3
conducted emission (AC Power)	DATA Link (USB)	Recording/play recording/MP3

\* Test Configuration required by client.

## 1.3 Operation Procedure

1. Set down EUT with support units and turn on the power of all equipment.
2. Pressing mouse button continuously or move mouse cursor.
3. Pre-test the EUT in all modes by each model, then figure the worst case out.
4. Tests under the normal operation pattern.

## 1.4 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
Notebook	IBM	L412	LR-ZYMYD
Radio Communication Analyzer	R&S	CMU200	N/A
Mouse	HP	M-UAE96	390938-001
Printer	HP	DJ3820	CN34L181B1

## 1.5 Modification List

No modification by SGS Taiwan Electronics & Communication Laboratory.

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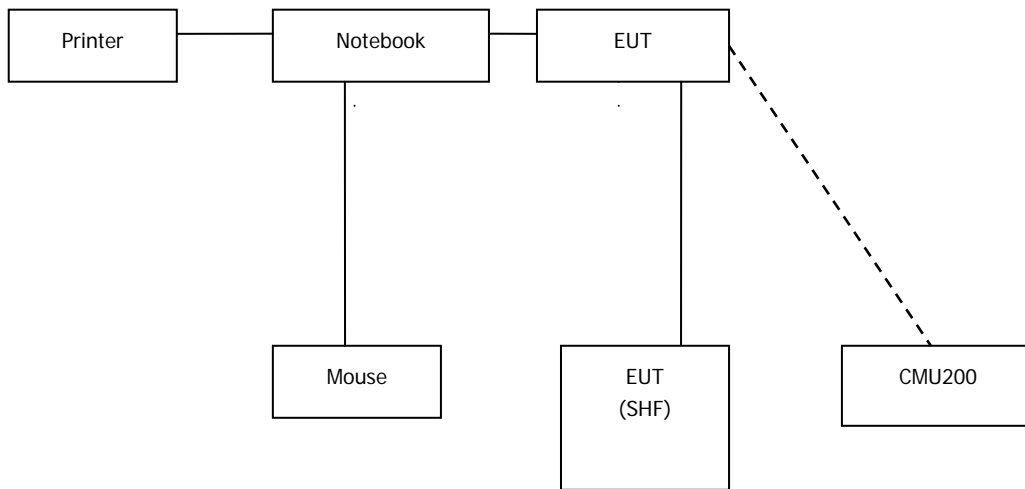


## 1.6 Cable List

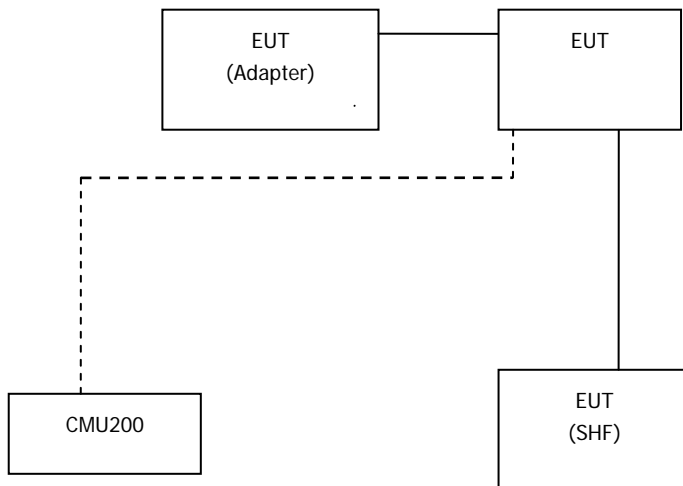
Cable Type	Length	Shielding/Non-shielding
USB cable with core near EUT, near Adapter	1.0 m	Shielding

## 1.7 Test Set-Up Configuration

Config 1



Config 2



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## 1.8 Measurement Procedure

Conducted Emission Testing was performed according ANSI C63.4:2009 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2009 at the 9\*6\*6 3m Semi-Anechoic chamber test site. The EUT was placed in a 0.8m high table along with the peripherals. The turn table was separated from the antenna distance 3meters. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for maximum.

The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Reported are maximized emission levels.

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009. FCC Registration Number: TW0513.

## 1.9 Standards Applicable for Testing

Table of tests to be carried out under FCC Part 15, Subpart B

Test Standards	Status
FCC Part 15, Subpart B	Applicable
Deviation from Standard	No Deviation

## 1.10 Summary of Results

Highest Emission					
Standard	Test Type	Result	Phase/Polar.	Frequency(MHz)	Margin(dB)
FCC Part 15 Subpart B Class B/ CISPR 22 Class B	Conducted Emission	PASS	Line	2.5840	-14.68(AVG)
			Neutral	2.5880	-12.76(AVG)
	Radiated Emission	PASS	Ver.	31.1730	-8.53(QP)

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## 2. Radio Disturbance

### 2.1 Test Results

	Results
Conducted Emission	Pass
Radiated Emission	Pass

### 2.2 Frequency Range

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : See below table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

### 2.3 Limits Of Conducted And Radiated Emission

#### 2.3.1 Limit Of Conducted Emission Of FCC Part 15, Subpart B/CISPR 22

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

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

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.





### 2.3.2 Limit Of Radiated Emissions Of FCC Part 15, Subpart B/CISPR 22

#### FCC Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30~88	39	40
88~216	43.5	43.5
216~960	46.44	46
Above 960	49.54	54

- Detector Function : Peak , Average

FREQUENCY (MHz)	Class A (dBuV) (at 3m)		Class B (dBuV) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	79.3	59.3	73.9	53.9

#### CISPR Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30-230	40	30
230-1000	47	37

- Detector Function : Peak , Average – Class A

Frequency range GHz	Average Limit dB(μV/m)	Peak Limit dB(μV/m)
1 to 3	56	76
3 to 6	60	80

- Detector Function : Peak , Average – Class B

Frequency range GHz	Average Limit dB(μV/m)	Peak Limit dB(μV/m)
1 to 3	50	70
3 to 6	54	74

Note : The lower limit applies at the transition frequency.





## 2.4 Test of Conducted Emission

### 2.4.1 Test Equipments

SGS Wuku Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 3	100335	Jan. 11, 2014	Jan. 10, 2015
Coaxial Cables	N/A	WK CE Cable	N/A	Nov. 26, 2013	Nov. 25, 2014
LISN	SCHWARZBECK	NSLK 8127	8127-649	May 02, 2014	May 01, 2015
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	Mar. 19, 2014	Mar. 18, 2015
ISN	FCC	F-071115-1057-1-09	111153	Feb. 10, 2014	Feb. 09, 2015
Current Probe	FCC	F-35A	139	Mar. 21, 2014	Mar. 20, 2015
Capacitive Voltage Probe	FCC	F-CVP-1	97	Mar. 21, 2014	Mar. 20, 2015
DC LISN	SCHWARZBECK	NNBM 8125	8125-1598	May 05, 2014	May 04, 2015
DC LISN	MESS TEC	LN-KFZ/200	02/10163	Sep. 22, 2014	Sep. 21, 2015
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

### 2.4.2 Test Site

SGS Taiwan LTD. Electronics & Communication Laboratory

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803

### 2.4.3 Operating Environment

Temperature : 24 degree C

Humidity : 66 %RH

Atmospheric Pressure : 996 mBar

### 2.4.4 Uncertainty of Conducted Emission

Expanded uncertainty (K=2) of conducted emission is 2.28 dB.

### 2.4.5 Measurement level and Factor calculate method

Factor = LISN insertion loss + Cable loss

Measurement Level = Reading Level + Factor

Over (Margin) = Measurement Level – Limit

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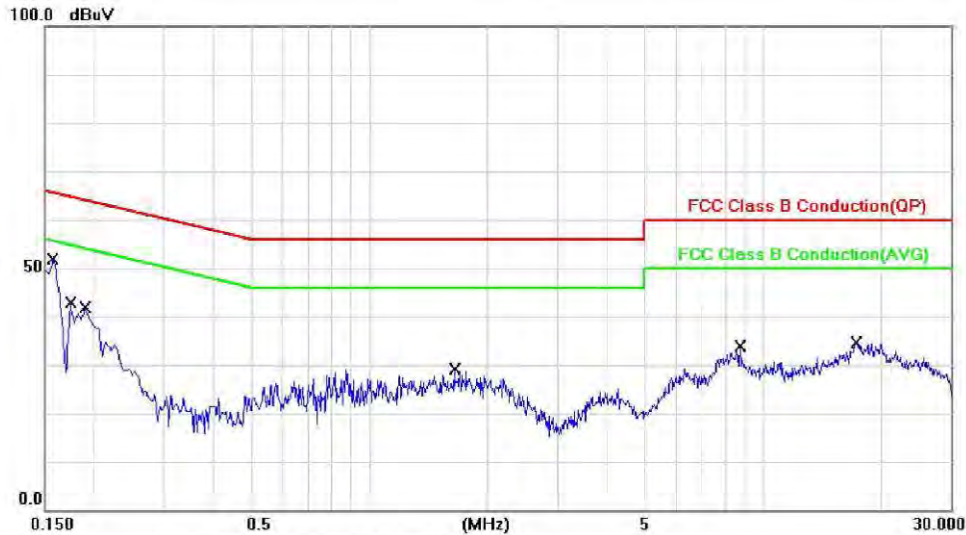
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## 2.4.6 Measurement Data

Operation Mode:	Config 1 DATA Link (USB)	Test Date:	Nov. 21, 2014
Tested By:	Eddy Cheng	Pol.:	L1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1580	48.50	0.07	48.57	65.57	-17.00	QP	
2		0.1580	31.70	0.07	31.77	55.57	-23.80	AVG	
3		0.1740	41.20	0.07	41.27	64.77	-23.50	QP	
4		0.1740	21.60	0.07	21.67	54.77	-33.10	AVG	
5		0.1900	37.40	0.07	37.47	64.04	-26.57	QP	
6		0.1900	21.80	0.07	21.87	54.04	-32.17	AVG	
7		1.6520	21.50	0.10	21.60	56.00	-34.40	QP	
8		1.6520	13.60	0.10	13.70	46.00	-32.30	AVG	
9		8.7740	25.40	0.28	25.68	60.00	-34.32	QP	
10		8.7740	18.20	0.28	18.48	50.00	-31.52	AVG	
11		17.2100	27.90	0.51	28.41	60.00	-31.59	QP	
12		17.2100	20.30	0.51	20.81	50.00	-29.19	AVG	

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Operation Mode:	Config 1 DATA Link (USB)	Test Date:	Nov. 21, 2014
Tested By:	Eddy Cheng	Pol.:	N



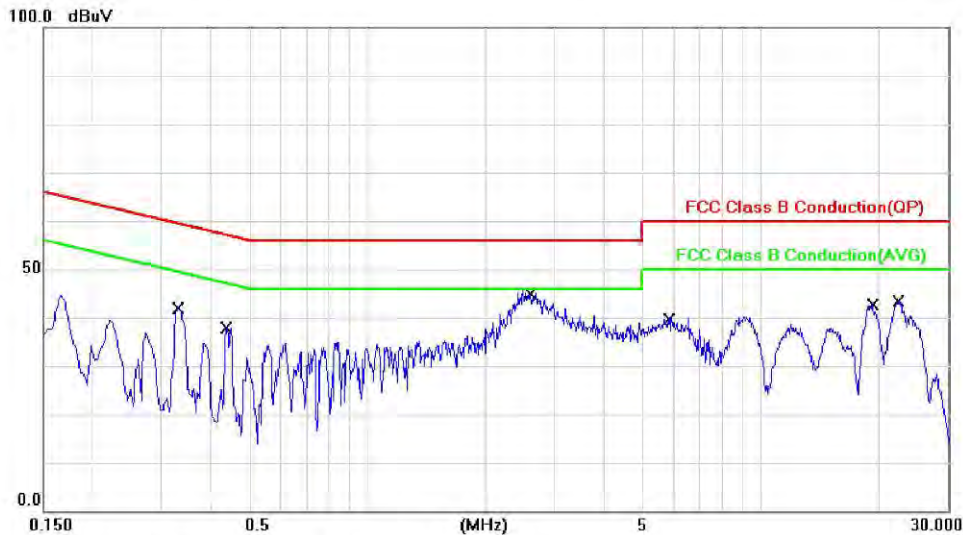
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	51.50	0.05	51.55	66.00	-14.45	QP	
2		0.1500	35.10	0.05	35.15	56.00	-20.85	AVG	
3		3.7521	17.40	0.17	17.57	56.00	-38.43	QP	
4		3.7521	10.10	0.17	10.27	46.00	-35.73	AVG	
5		6.5630	22.50	0.24	22.74	60.00	-37.26	QP	
6		6.5630	16.20	0.24	16.44	50.00	-33.56	AVG	
7		7.8782	26.30	0.27	26.57	60.00	-33.43	QP	
8		7.8782	19.90	0.27	20.17	50.00	-29.83	AVG	
9		10.9805	22.60	0.35	22.95	60.00	-37.05	QP	
10		10.9805	16.30	0.35	16.65	50.00	-33.35	AVG	
11		18.1628	22.50	0.54	23.04	60.00	-36.96	QP	
12		18.1628	15.90	0.54	16.44	50.00	-33.56	AVG	

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Operation Mode:	Config 2 Recording (Front)	Test Date:	Nov. 21, 2014
Tested By:	Eddy Cheng	Pol.:	L1



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3307	39.70	0.07	39.77	59.43	-19.66	QP	
2		0.3307	30.70	0.07	30.77	49.43	-18.66	AVG	
3		0.4426	36.00	0.07	36.07	57.01	-20.94	QP	
4		0.4426	27.10	0.07	27.17	47.01	-19.84	AVG	
5		2.6140	39.60	0.12	39.72	56.00	-16.28	QP	
6 *		2.6140	30.00	0.12	30.12	46.00	-15.88	AVG	
7		5.8860	33.30	0.21	33.51	60.00	-26.49	QP	
8		5.8860	24.50	0.21	24.71	50.00	-25.29	AVG	
9		19.1400	36.50	0.57	37.07	60.00	-22.93	QP	
10		19.1400	26.20	0.57	26.77	50.00	-23.23	AVG	
11		22.4900	36.40	0.67	37.07	60.00	-22.93	QP	
12		22.4900	24.90	0.67	25.57	50.00	-24.43	AVG	

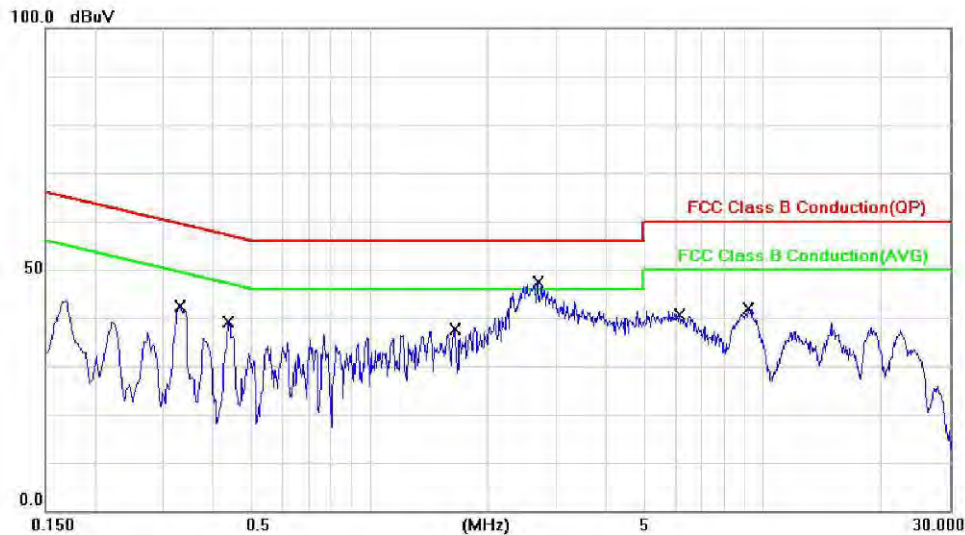
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Operation Mode:	Config 2 Recording (Front)	Test Date:	Nov. 21, 2014
Tested By:	Eddy Cheng	Pol.:	N



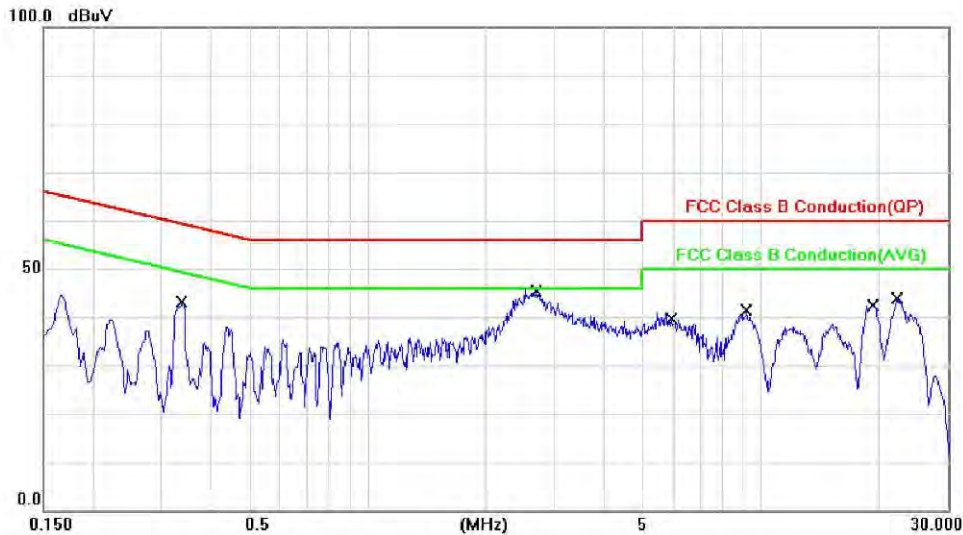
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Defector	Comment
1		0.3336	39.20	0.07	39.27	59.36	-20.09	QP	
2		0.3336	35.10	0.07	35.17	49.36	-14.19	AVG	
3		0.4438	35.20	0.07	35.27	56.99	-21.72	QP	
4		0.4438	30.40	0.07	30.47	46.99	-16.52	AVG	
5		1.6490	34.00	0.12	34.12	56.00	-21.88	QP	
6		1.6490	22.20	0.12	22.32	46.00	-23.68	AVG	
7 *		2.6740	42.30	0.14	42.44	56.00	-13.56	QP	
8		2.6740	32.00	0.14	32.14	46.00	-13.86	AVG	
9		6.1020	34.80	0.23	35.03	60.00	-24.97	QP	
10		6.1020	25.50	0.23	25.73	50.00	-24.27	AVG	
11		9.1320	35.40	0.31	35.71	60.00	-24.29	QP	
12		9.1320	26.90	0.31	27.21	50.00	-22.79	AVG	

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Operation Mode:	Config 2 Recording (Back)	Test Date:	Nov. 21, 2014
Tested By:	Eddy Cheng	Pol.:	L1



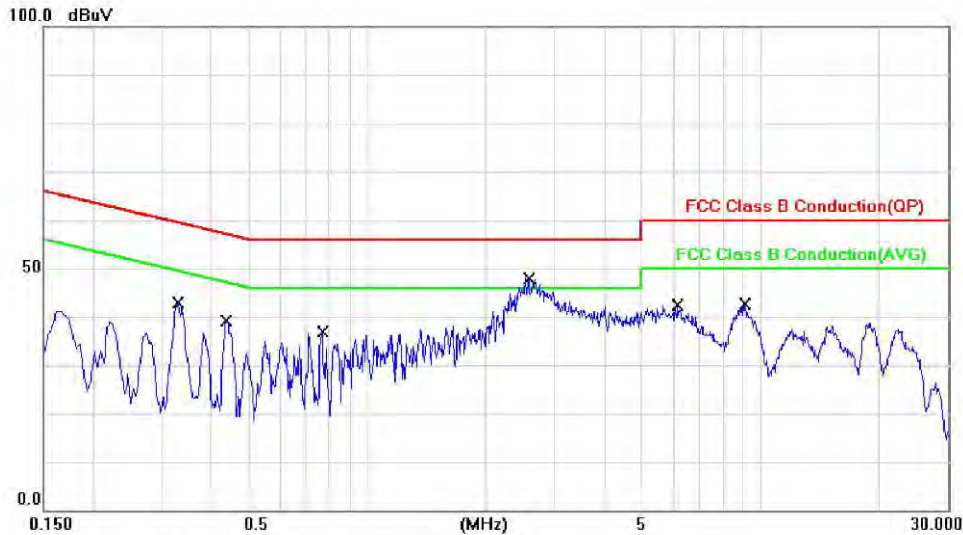
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3390	41.00	0.07	41.07	59.23	-18.16	QP	
2		0.3390	31.40	0.07	31.47	49.23	-17.76	AVG	
3		2.6820	39.70	0.12	39.82	56.00	-16.18	QP	
4 *		2.6820	30.30	0.12	30.42	46.00	-15.58	AVG	
5		5.9200	33.50	0.21	33.71	60.00	-26.29	QP	
6		5.9200	24.60	0.21	24.81	50.00	-25.19	AVG	
7		9.1760	34.90	0.30	35.20	60.00	-24.80	QP	
8		9.1760	26.20	0.30	26.50	50.00	-23.50	AVG	
9		19.3300	36.50	0.57	37.07	60.00	-22.93	QP	
10		19.3300	26.20	0.57	26.77	50.00	-23.23	AVG	
11		22.4300	36.50	0.67	37.17	60.00	-22.83	QP	
12		22.4300	25.00	0.67	25.67	50.00	-24.33	AVG	

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Operation Mode:	Config 2 Recording (Back)	Test Date:	Nov. 21, 2014
Tested By:	Eddy Cheng	Pol.:	N



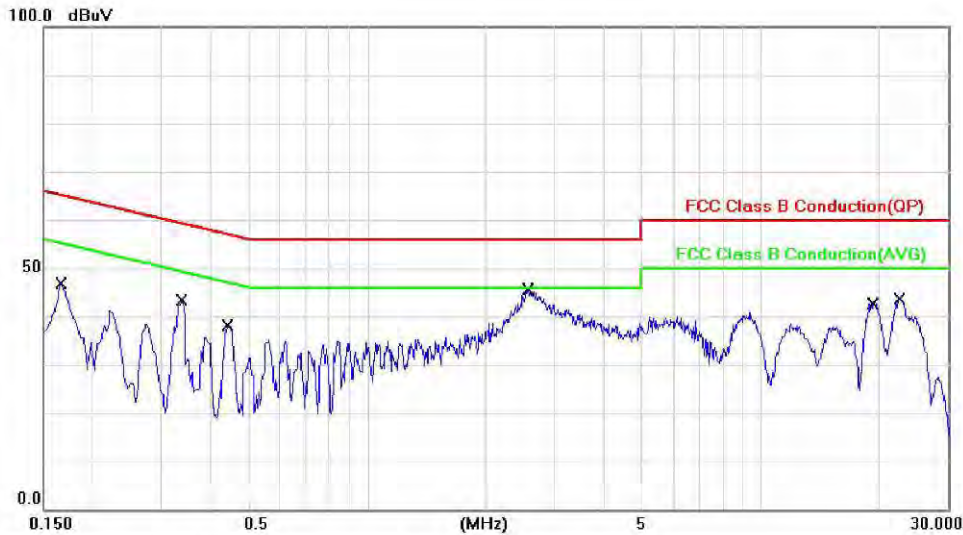
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3338	39.30	0.07	39.37	59.36	-19.99	QP	
2		0.3338	35.10	0.07	35.17	49.36	-14.19	AVG	
3		0.4440	35.10	0.07	35.17	56.99	-21.82	QP	
4		0.4440	30.40	0.07	30.47	46.99	-16.52	AVG	
5		0.7781	29.40	0.09	29.49	56.00	-26.51	QP	
6		0.7781	22.20	0.09	22.29	46.00	-23.71	AVG	
7		2.5880	42.40	0.14	42.54	56.00	-13.46	QP	
8 *		2.5880	33.10	0.14	33.24	46.00	-12.76	AVG	
9		6.1320	35.00	0.23	35.23	60.00	-24.77	QP	
10		6.1320	25.60	0.23	25.83	50.00	-24.17	AVG	
11		9.1200	35.30	0.31	35.61	60.00	-24.39	QP	
12		9.1200	27.10	0.31	27.41	50.00	-22.59	AVG	

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Operation Mode:	Config 2 play recording	Test Date:	Nov. 21, 2014
Tested By:	Eddy Cheng	Pol.:	L1



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1667	44.30	0.07	44.37	65.12	-20.75	QP	
2		0.1667	32.10	0.07	32.17	55.12	-22.95	AVG	
3		0.3407	40.10	0.07	40.17	59.19	-19.02	QP	
4		0.3407	30.70	0.07	30.77	49.19	-18.42	AVG	
5		0.4420	35.80	0.07	35.87	57.02	-21.15	QP	
6		0.4420	26.50	0.07	26.57	47.02	-20.45	AVG	
7		2.5840	40.40	0.12	40.52	56.00	-15.48	QP	
8 *		2.5840	31.20	0.12	31.32	46.00	-14.68	AVG	
9		19.2440	36.50	0.57	37.07	60.00	-22.93	QP	
10		19.2440	26.40	0.57	26.97	50.00	-23.03	AVG	
11		22.6220	36.60	0.68	37.28	60.00	-22.72	QP	
12		22.6220	25.10	0.68	25.78	50.00	-24.22	AVG	

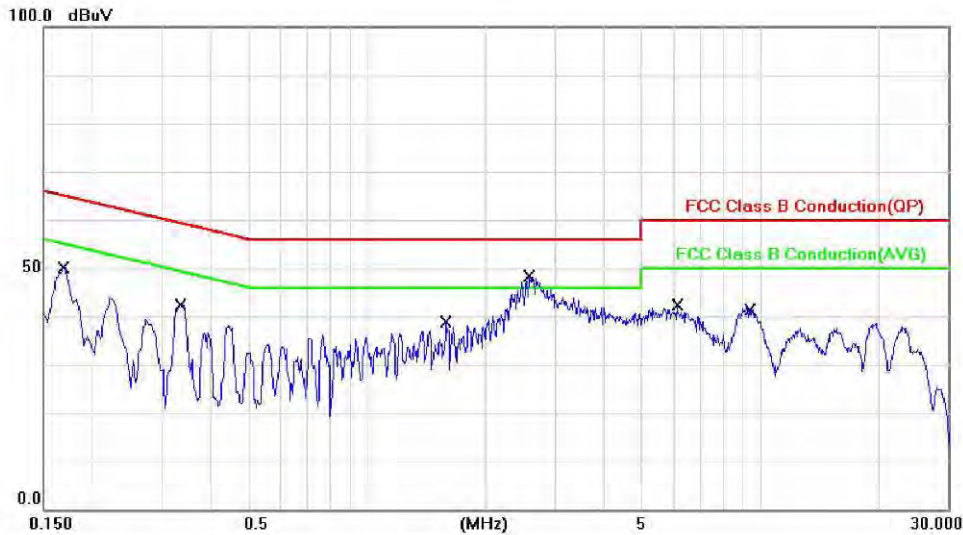
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Operation Mode:	Config 2 play recording	Test Date:	Nov. 21, 2014
Tested By:	Eddy Cheng	Pol.:	N



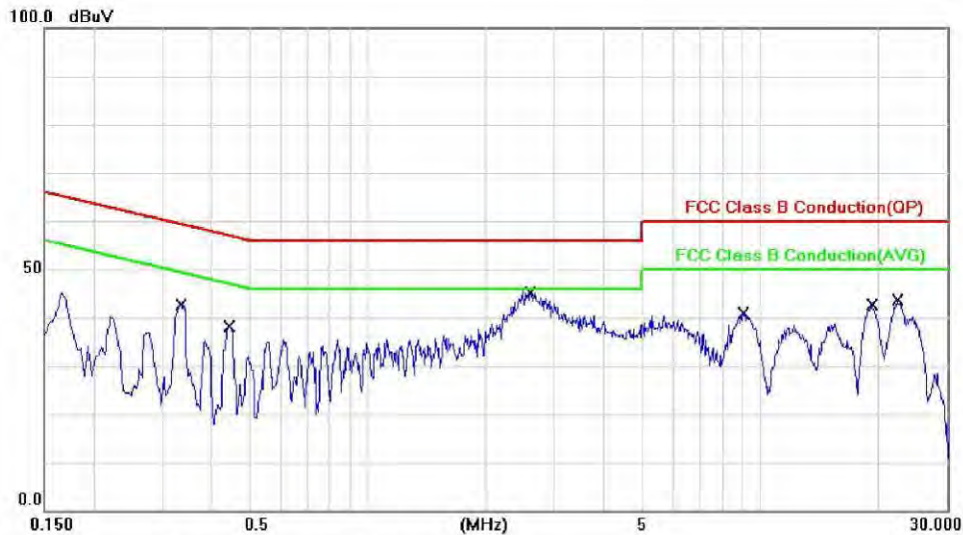
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1666	47.10	0.05	47.15	65.13	-17.98	QP	
2		0.1666	35.70	0.05	35.75	55.13	-19.38	AVG	
3		0.3345	39.70	0.07	39.77	59.34	-19.57	QP	
4		0.3345	34.50	0.07	34.57	49.34	-14.77	AVG	
5		1.5920	34.20	0.12	34.32	56.00	-21.68	QP	
6		1.5920	22.50	0.12	22.62	46.00	-23.38	AVG	
7		2.6080	40.80	0.14	40.94	56.00	-15.06	QP	
8 *		2.6080	32.50	0.14	32.64	46.00	-13.36	AVG	
9		6.1020	35.20	0.23	35.43	60.00	-24.57	QP	
10		6.1020	25.80	0.23	26.03	50.00	-23.97	AVG	
11		9.3120	35.30	0.32	35.62	60.00	-24.38	QP	
12		9.3120	27.00	0.32	27.32	50.00	-22.68	AVG	

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Operation Mode:	Config 2 MP3	Test Date:	Nov. 21, 2014
Tested By:	Eddy Cheng	Pol.:	L1



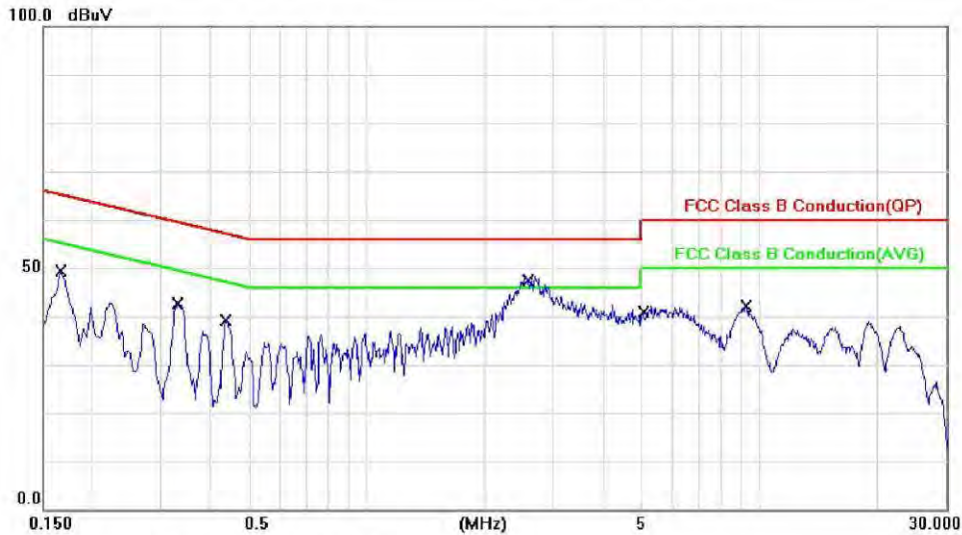
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.3322	40.40	0.07	40.47	59.40	-18.93	QP	
2		0.3322	32.10	0.07	32.17	49.40	-17.23	AVG	
3		0.4427	36.10	0.07	36.17	57.01	-20.84	QP	
4		0.4427	27.40	0.07	27.47	47.01	-19.54	AVG	
5		2.5760	39.90	0.12	40.02	56.00	-15.98	QP	
6 *		2.5760	30.60	0.12	30.72	46.00	-15.28	AVG	
7		9.1750	34.70	0.30	35.00	60.00	-25.00	QP	
8		9.1750	26.00	0.30	26.30	50.00	-23.70	AVG	
9		19.2570	36.40	0.57	36.97	60.00	-23.03	QP	
10		19.2570	26.20	0.57	26.77	50.00	-23.23	AVG	
11		22.4760	36.40	0.67	37.07	60.00	-22.93	QP	
12		22.4760	24.90	0.67	25.57	50.00	-24.43	AVG	

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Operation Mode:	Config 2 MP3	Test Date:	Nov. 21, 2014
Tested By:	Eddy Cheng	Pol.:	N



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1661	44.80	0.05	44.85	65.15	-20.30	QP	
2		0.1661	34.40	0.05	34.45	55.15	-20.70	AVG	
3		0.3332	39.60	0.07	39.67	59.37	-19.70	QP	
4		0.3332	35.10	0.07	35.17	49.37	-14.20	AVG	
5		0.4441	35.20	0.07	35.27	56.98	-21.71	QP	
6		0.4441	30.20	0.07	30.27	46.98	-16.71	AVG	
7		2.5920	41.70	0.14	41.84	56.00	-14.16	QP	
8 *		2.5920	32.40	0.14	32.54	46.00	-13.46	AVG	
9		5.0000	34.00	0.20	34.20	56.00	-21.80	QP	
10		5.0000	24.00	0.20	24.20	46.00	-21.80	AVG	
11		9.2840	35.00	0.31	35.31	60.00	-24.69	QP	
12		9.2840	26.80	0.31	27.11	50.00	-22.89	AVG	

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## 2.5 Test of Radiated Emission

### 2.5.1 Test Instruments

#### Below 1GHz

SGS 966 Chamber No. II					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 7	100760	May 26, 2014	May 25, 2015
Biconical Antenna	Schwarzbeck	VHBB 9124	9124-560	Feb. 10, 2014	Feb. 09, 2015
Log-Periodic Antenna	Schwarzbeck	UHALP 9108 A	UHALP 9108-A 0990	Feb. 10, 2014	Feb. 09, 2015
Broadband Antenna	SCHWAZBECK	VULB9168	VULB9168-298	Nov. 04, 2014	Nov. 03, 2015
Pre-Amplifier	Agilent	8447D	1937A02774	Mar. 27, 2014	Mar. 26, 2015
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104PEA	N/A	Nov. 26, 2013	Nov. 25, 2014
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104PEA	N/A	Nov. 26, 2014	Nov. 25, 2015
Antenna Master	MF.	MF-7802	N/A	N.C.R.	N.C.R.
Turn Table	MF.	N/A	N/A	N.C.R.	N.C.R.
Controller	MF.	3000	MF780208153	N.C.R.	N.C.R.
Site NSA	Chamost	966II Chamber	N/A	Dec. 30, 2013	Dec. 29, 2014
Site NSA	Chamost	966II Chamber	N/A	Dec. 21, 2014	Dec. 20, 2015
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

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## Above 1GHz

SGS 966 Chamber No. II					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 7	100760	May 26, 2014	May 25, 2015
Spectrum Analyzer	R&S	FSV 40	101385	Aug. 01, 2014	Jul. 31, 2015
Horn Antenna	SCHWAZBECK	BBHA 9120D	BBHA9120D309	Dec. 20, 2013	Dec. 19, 2014
Horn Antenna	SCHWAZBECK	BBHA 9120D	BBHA9120D309	Dec. 24, 2014	Dec. 23, 2015
Horn Antenna	SCHWAZBECK	BBHA 9170	BBHA9170184	Jan. 23, 2014	Jan. 22, 2015
Pre-Amplifier	EM Electronics Corp.	EM30180	06031802	Jan. 24, 2014	Jan. 23, 2015
Pre Amplifier	EMC Instruments	EMC012645	980119	Jun. 10, 2014	Jun. 09, 2015
Pre-Amplifier	EM Electronics Corp.	EM26400	971576	Oct. 02, 2014	Oct. 01, 2015
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104-02	N/A	Nov. 26, 2013	Nov. 25, 2014
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104-02	N/A	Nov. 26, 2014	Nov. 25, 2015
Coaxial Cable	Huber+Suhner	SUCCOFLEX 102	22962/2	Nov. 26, 2013	Nov. 25, 2014
Coaxial Cable	Huber+Suhner	SUCCOFLEX 102	22962/2	Nov. 26, 2014	Nov. 25, 2015
Coaxial Cable	Huber+Suhner	SUCCOFLEX 102	23051/2	Nov. 26, 2013	Nov. 25, 2014
Coaxial Cable	Huber+Suhner	SUCCOFLEX 102	23051/2	Nov. 26, 2014	Nov. 25, 2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2152/2	Jun. 06, 2014	Jun. 05, 2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2153/2	Jun. 06, 2014	Jun. 05, 2015
Antenna Master	MF.	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF.	N/A	N/A	N.C.R.	N.C.R.
Controller	MF.	3000	MF780208153	N.C.R.	N.C.R.
Site VSWR	Chamost	966II Chamber	N/A	Dec. 30, 2013	Dec. 29, 2014
Site VSWR	Chamost	966II Chamber	N/A	Dec. 21, 2014	Dec. 20, 2015
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

## 2.5.2 Test Site

SGS Taiwan LTD. Electronics &amp; Communication Laboratory

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803

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### 2.5.3 Operating Environment

Temperature : 25 degree C

Humidity : 58 %RH

Atmospheric Pressure : 996 mBar

### 2.5.4 Uncertainty of Radiated Emission

Expanded uncertainty (k=2) of radiated emission measurement is 5.09 dB. (30-1000MHz)

Expanded uncertainty (k=2) of radiated emission measurement is 5.04 dB. (1-6GHz)

Expanded uncertainty (k=2) of radiated emission measurement is 5.10 dB. (6-18GHz)

Expanded uncertainty (k=2) of radiated emission measurement is 5.12 dB. (18-26GHz)

Expanded uncertainty (k=2) of radiated emission measurement is 5.04 dB. (26-40GHz)

### 2.5.5 Measurement level and Factor calculate method

Correct Factor = Antenna Factor + Cable loss- Amplifier Gain

Measurement Level = Reading Level + Correct Factor

Over (Margin) = Measurement Level – Limit

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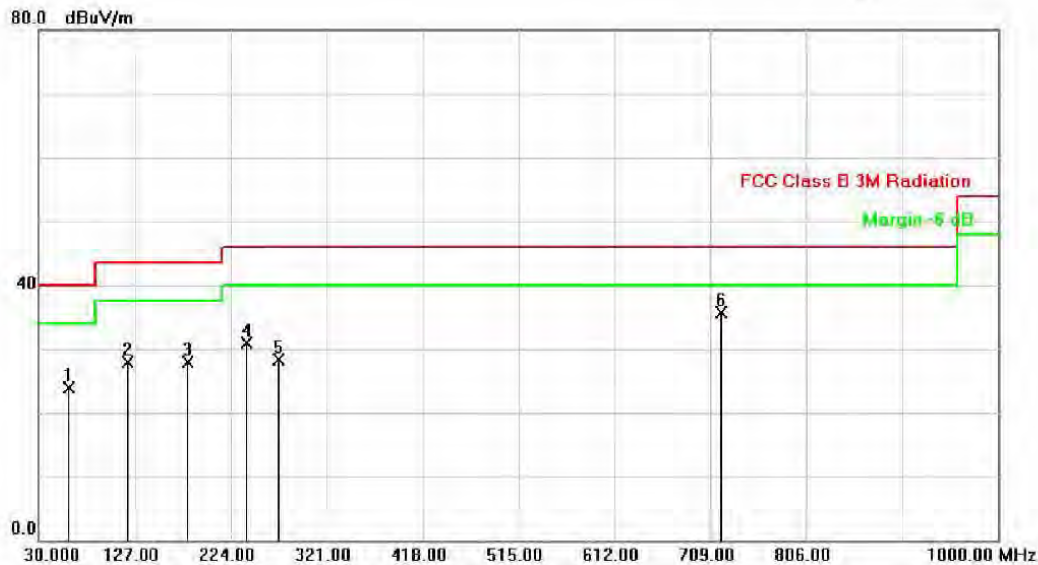
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## 2.5.6 Measurement Data

### Below 1GHz

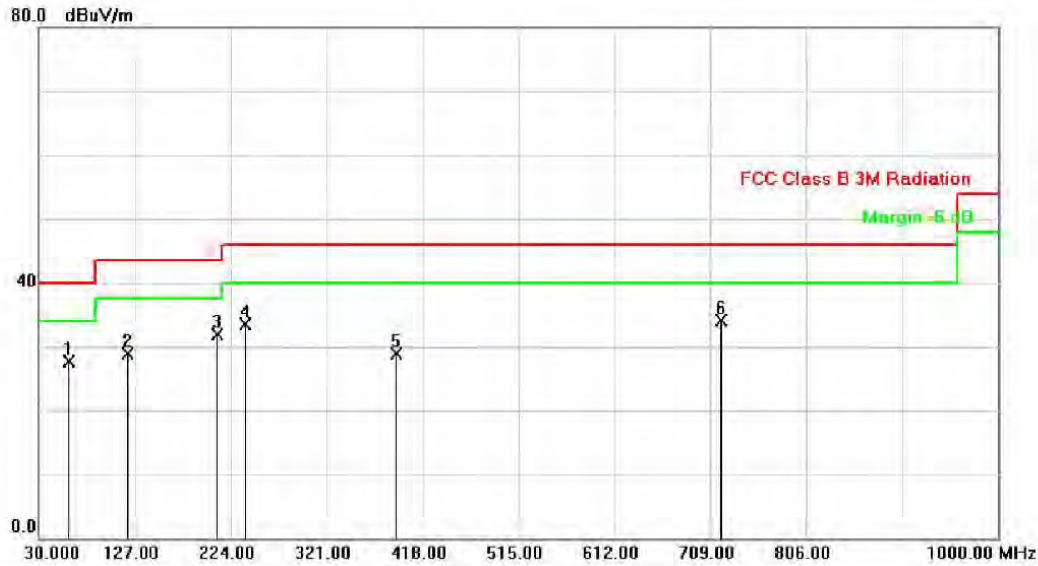
Operation Mode:	Config 1 DATA Link (USB)	Test Date:	Jan. 03, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		60.3100	36.93	-13.10	23.83	40.00	-16.17	QP	
2		120.1720	42.43	-14.59	27.84	43.50	-15.66	QP	
3		180.7120	42.07	-14.20	27.87	43.50	-15.63	QP	
4		240.1530	44.23	-13.34	30.89	46.00	-15.11	QP	
5		272.4190	40.83	-12.46	28.37	46.00	-17.63	QP	
6 *		720.5290	38.07	-2.46	35.61	46.00	-10.39	QP	

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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		59.7930	40.82	-13.03	27.79	40.00	-12.21	QP	
2		120.0210	43.49	-14.61	28.88	43.50	-14.62	QP	
3	*	210.6970	46.59	-14.76	31.83	43.50	-11.67	QP	
4		238.7330	46.92	-13.44	33.48	46.00	-12.52	QP	
5		391.6230	38.15	-9.33	28.82	46.00	-17.18	QP	
6		720.2280	36.64	-2.46	34.18	46.00	-11.82	QP	

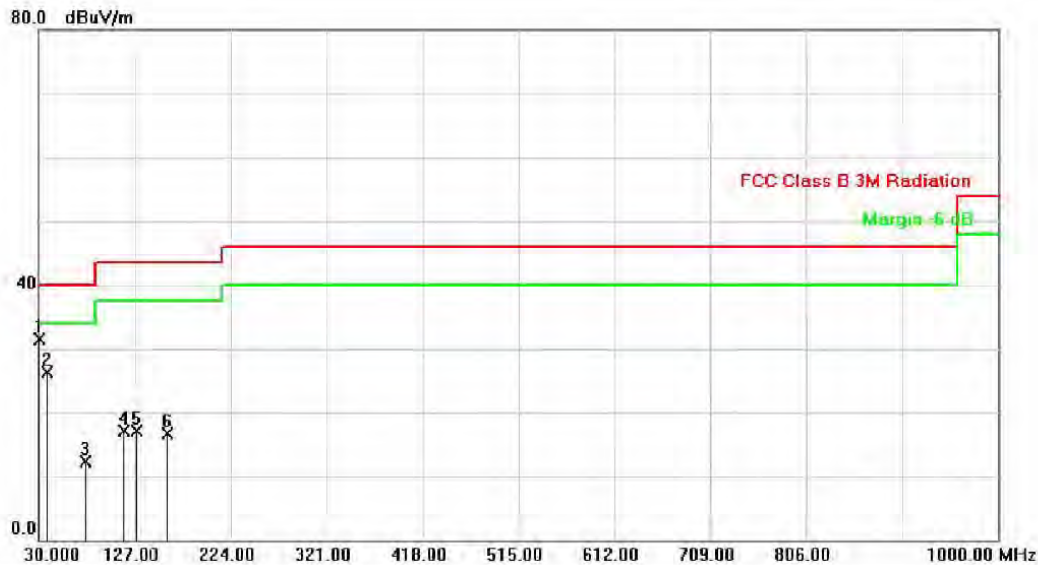
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Operation Mode:	Config 2 Recording (Front)	Test Date:	Jan. 03, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	31.1730	44.76	-13.29	31.47	40.00	-8.53	QP	
2		38.2410	39.04	-12.77	26.27	40.00	-13.73	QP	
3		77.1640	28.31	-16.06	12.25	40.00	-27.75	QP	
4		115.9520	32.09	-15.02	17.07	43.50	-26.43	QP	
5		129.2190	30.58	-13.41	17.17	43.50	-26.33	QP	
6		160.4170	28.53	-11.91	16.62	43.50	-26.88	QP	

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f (886-2) 2298-0488

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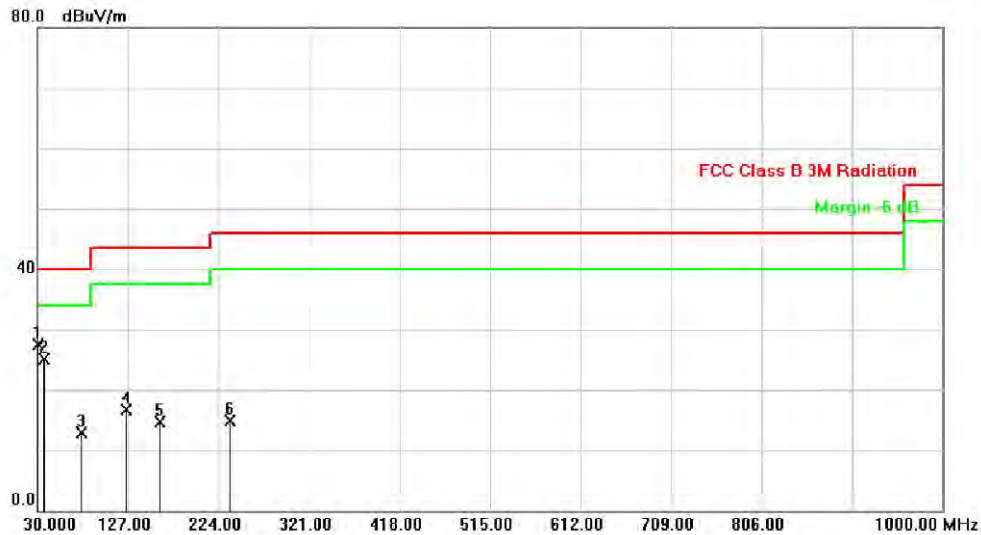
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	37.1950	26.52	-12.88	13.64	40.00	-26.36	QP	
2		54.8990	24.83	-12.55	12.28	40.00	-27.72	QP	
3		76.1790	29.01	-15.89	13.12	40.00	-26.88	QP	
4		132.1130	28.59	-13.13	15.46	43.50	-28.04	QP	
5		242.9810	24.45	-13.26	11.19	46.00	-34.81	QP	
6		263.8210	30.71	-12.85	17.86	46.00	-28.14	QP	

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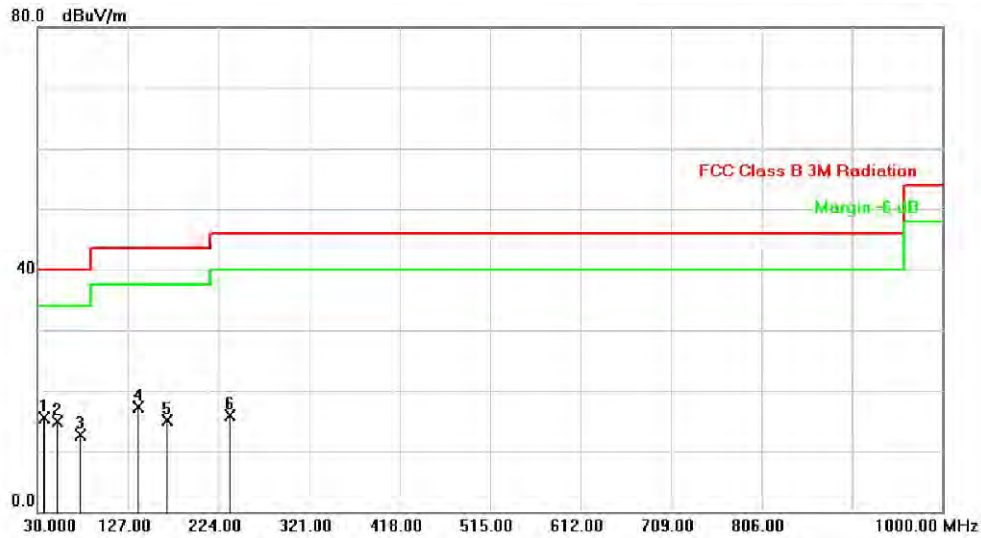
Operation Mode:	Config 2 Recording (Back)	Test Date:	Nov. 24, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	30.0750	40.30	-12.82	27.48	40.00	-12.52	QP	
2		37.1100	37.40	-12.30	25.10	40.00	-14.90	QP	
3		76.7150	28.27	-15.33	12.94	40.00	-27.06	QP	
4		124.9940	30.16	-13.45	16.71	43.50	-26.79	QP	
5		160.7480	25.97	-11.33	14.64	43.50	-28.86	QP	
6		236.3320	28.05	-13.18	14.87	46.00	-31.13	QP	

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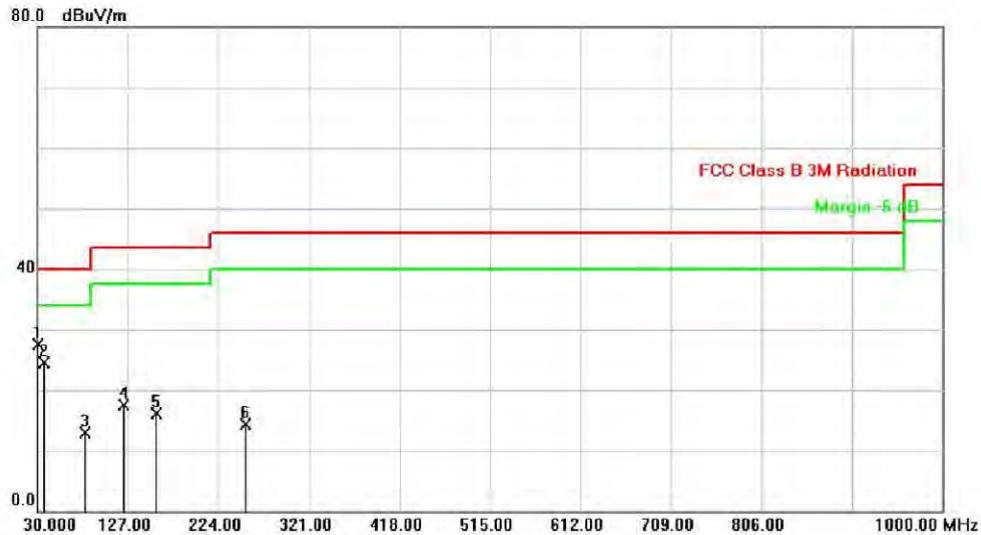
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	37.4260	27.82	-12.27	15.55	40.00	-24.45	QP	
2		51.9080	26.49	-11.62	14.87	40.00	-25.13	QP	
3		76.5200	27.93	-15.30	12.63	40.00	-27.37	QP	
4		138.0320	29.34	-12.03	17.31	43.50	-26.19	QP	
5		168.5320	26.94	-11.82	15.12	43.50	-28.38	QP	
6		235.9900	29.12	-13.21	15.91	46.00	-30.09	QP	

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Operation Mode:	Config 2 play recording	Test Date:	Nov. 18, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.

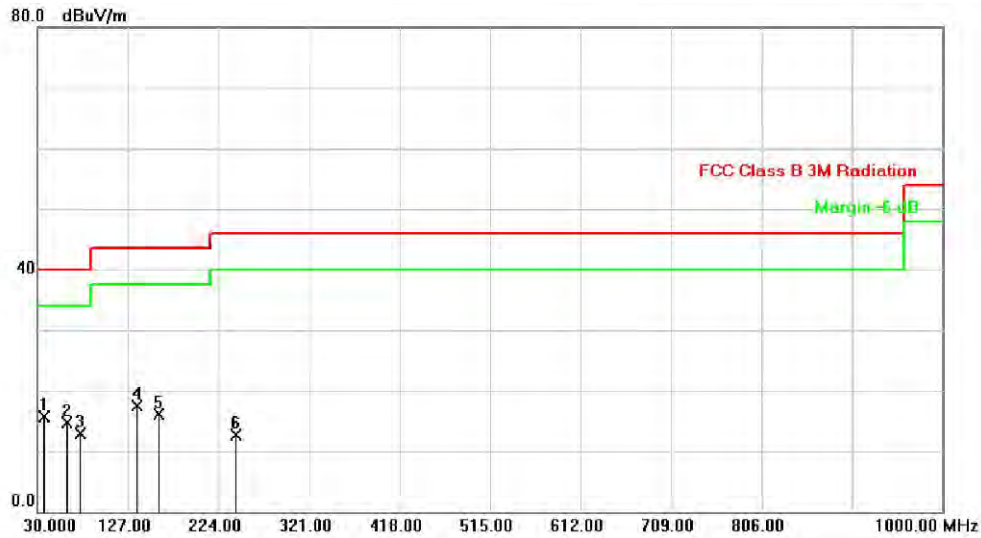


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	30.0180	40.30	-12.82	27.48	40.00	-12.52	QP	
2		37.6850	36.70	-12.23	24.47	40.00	-15.53	QP	
3		80.7880	28.95	-16.09	12.86	40.00	-27.14	QP	
4		122.6560	31.19	-13.76	17.43	43.50	-26.07	QP	
5		157.9100	27.43	-11.38	16.05	43.50	-27.45	QP	
6		253.1960	26.86	-12.64	14.22	46.00	-31.78	QP	

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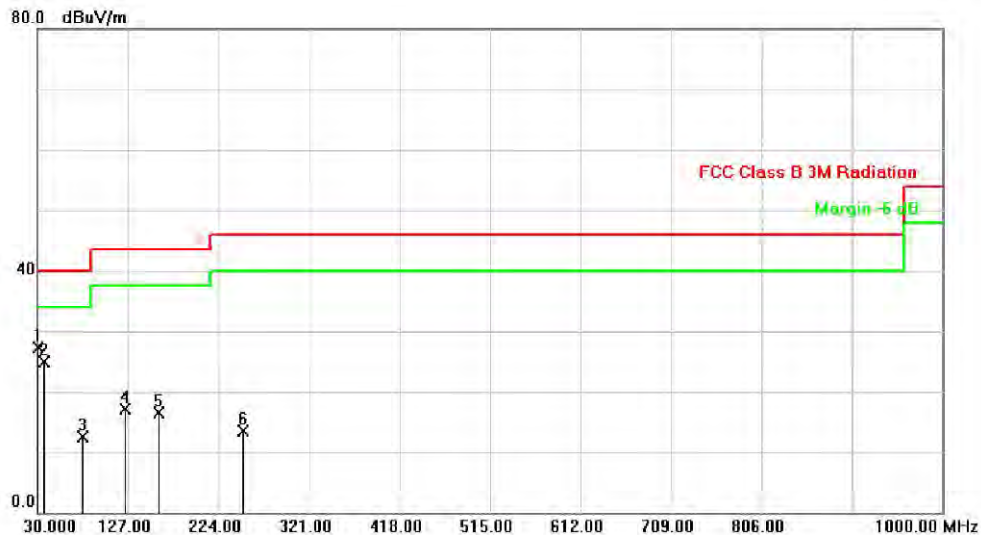
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	36.8200	28.07	-12.33	15.74	40.00	-24.26	QP	
2		61.5400	27.33	-12.72	14.61	40.00	-25.39	QP	
3		76.4350	28.21	-15.28	12.93	40.00	-27.07	QP	
4		136.6100	29.73	-12.16	17.57	43.50	-25.93	QP	
5		160.6150	27.44	-11.33	16.11	43.50	-27.39	QP	
6		242.8550	25.51	-12.78	12.73	46.00	-33.27	QP	

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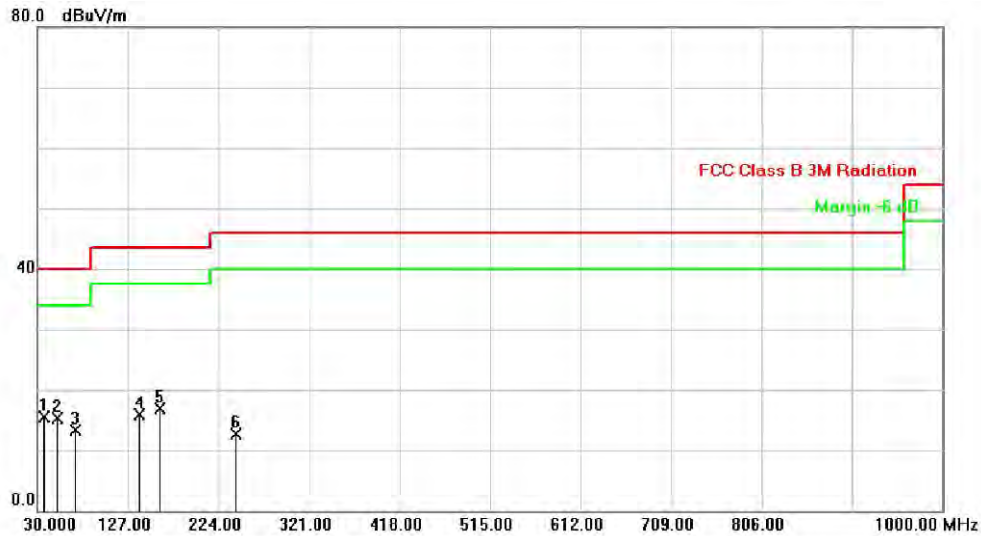
Operation Mode:	Config 2 MP3	Test Date:	Nov. 18, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	30.1400	40.20	-12.81	27.39	40.00	-12.61	QP	
2		37.0300	37.20	-12.31	24.89	40.00	-15.11	QP	
3		78.6450	28.17	-15.67	12.50	40.00	-27.50	QP	
4		123.7900	30.79	-13.61	17.18	43.50	-26.32	QP	
5		159.4680	27.88	-11.31	16.57	43.50	-26.93	QP	
6		250.5640	26.11	-12.62	13.49	46.00	-32.51	QP	

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	37.4480	27.73	-12.27	15.46	40.00	-24.54	QP	
2		51.8520	26.94	-11.61	15.33	40.00	-24.67	QP	
3		70.3900	27.52	-14.24	13.28	40.00	-26.72	QP	
4		139.0860	27.78	-11.94	15.84	43.50	-27.66	QP	
5		161.8120	28.24	-11.40	16.84	43.50	-26.66	QP	
6		243.2700	25.51	-12.78	12.73	46.00	-33.27	QP	

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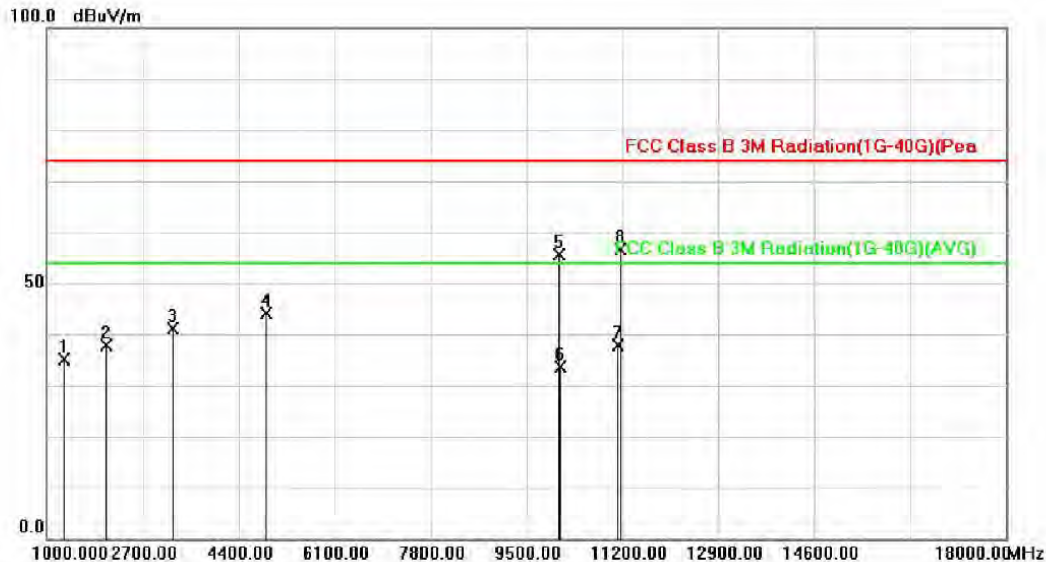
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## Above 1 - 18 GHz

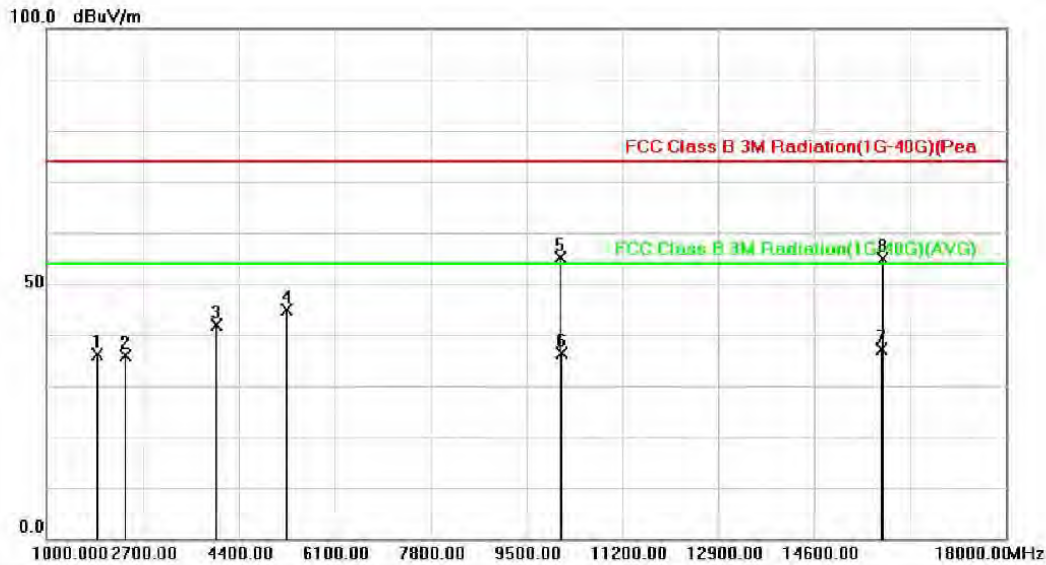
Operation Mode:	Config 1 DATA Link (USB)	Test Date:	Jan. 03, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1306.000	55.43	-20.39	35.04	74.00	-38.96	peak	
2		2054.000	56.32	-18.35	37.97	74.00	-36.03	peak	
3		3227.000	55.46	-14.37	41.09	74.00	-32.91	peak	
4		4893.000	54.75	-10.74	44.01	74.00	-29.99	peak	
5		10078.000	54.22	1.30	55.52	74.00	-18.48	peak	
6		10103.290	32.40	1.33	33.73	54.00	-20.27	AVG	
7 *		11124.970	-13.96	51.75	37.79	54.00	-16.21	AVG	
8		11166.000	4.98	51.76	56.74	74.00	-17.26	peak	

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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1901.000	55.03	-18.80	36.23	74.00	-37.77	peak	
2		2394.000	52.65	-16.71	35.94	74.00	-38.06	peak	
3		4009.000	54.68	-12.86	41.82	74.00	-32.18	peak	
4		5250.000	55.20	-10.24	44.96	74.00	-29.04	peak	
5		10095.000	53.93	1.32	55.25	74.00	-18.75	peak	
6		10127.530	34.95	1.36	36.31	54.00	-17.69	AVG	
7 *		15781.670	-14.49	51.64	37.15	54.00	-16.85	AVG	
8		15807.000	3.35	51.61	54.96	74.00	-19.04	peak	

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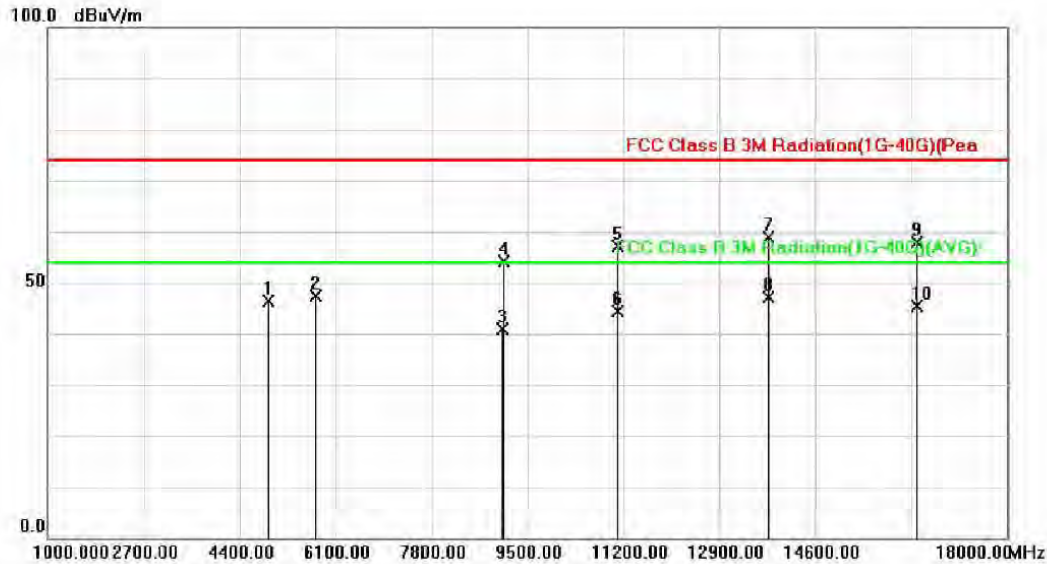
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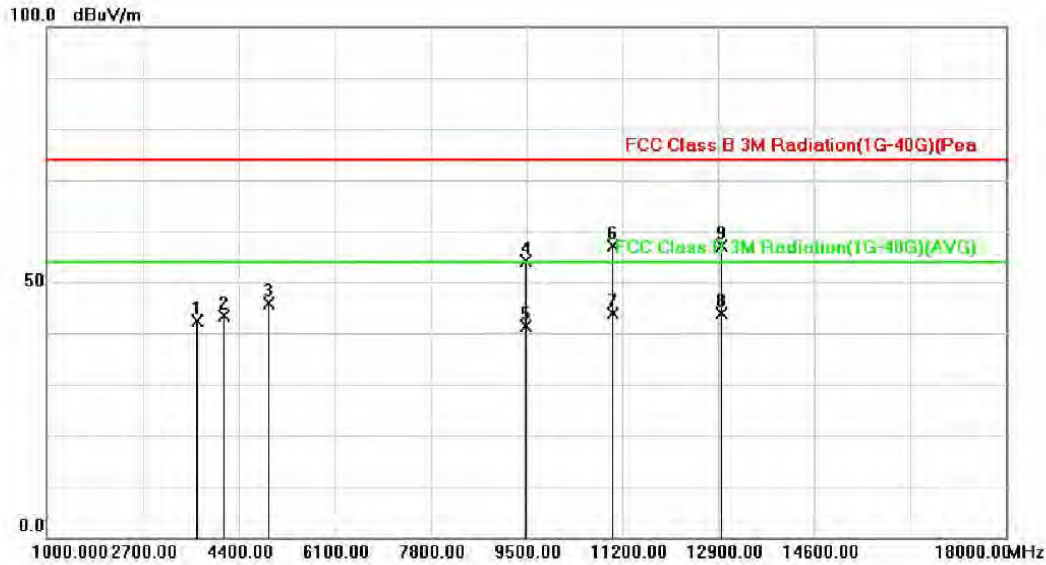
Operation Mode:	Config 2 Recording (Front)	Test Date:	Jan. 03, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		4910.000	55.81	-9.36	46.45	74.00	-27.55	peak	
2		5743.000	55.38	-7.90	47.48	74.00	-26.52	peak	
3		9065.010	40.10	0.69	40.79	54.00	-13.21	AVG	
4		9075.000	53.41	0.71	54.12	74.00	-19.88	peak	
5		11098.000	53.08	4.16	57.24	74.00	-16.76	peak	
6		11107.970	-8.33	52.61	44.28	54.00	-9.72	AVG	
7		13767.000	3.33	55.54	58.87	74.00	-15.13	peak	
8 *		13775.950	-8.31	55.56	47.25	54.00	-6.75	AVG	
9		16402.000	3.33	54.60	57.93	74.00	-16.07	peak	
10		16407.470	-9.14	54.62	45.48	54.00	-8.52	AVG	

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		3652.000	54.55	-12.27	42.28	74.00	-31.72	peak	
2		4128.000	54.55	-11.10	43.45	74.00	-30.55	peak	
3		4927.000	55.17	-9.31	45.86	74.00	-28.14	peak	
4		9483.000	52.44	1.80	54.24	74.00	-19.76	peak	
5		9488.350	39.54	1.82	41.36	54.00	-12.64	AVG	
6		11030.000	52.91	4.17	57.08	74.00	-16.92	peak	
7 *		11039.970	39.84	4.16	44.00	54.00	-10.00	AVG	
8		12946.980	-9.24	53.17	43.93	54.00	-10.07	AVG	
9		12951.000	4.00	53.17	57.17	74.00	-16.83	peak	

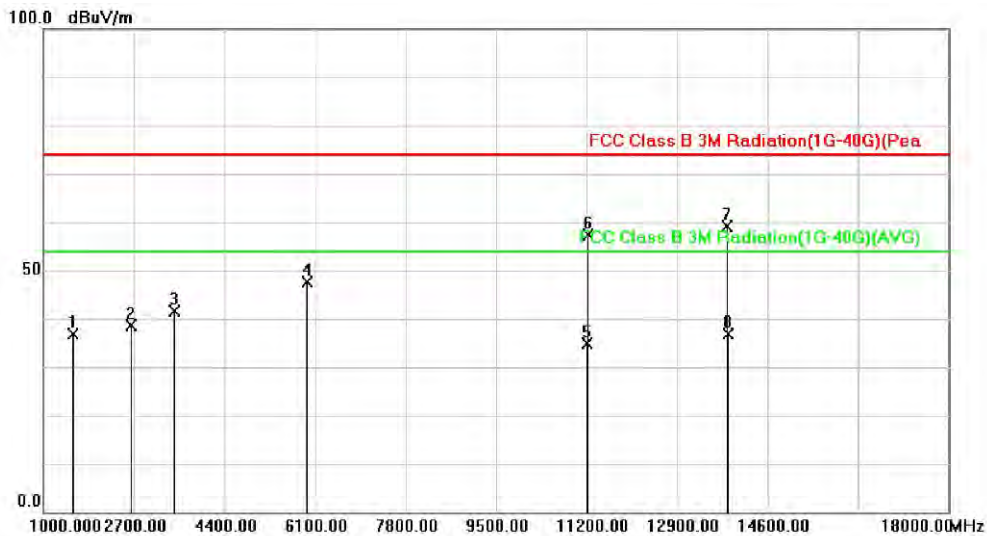
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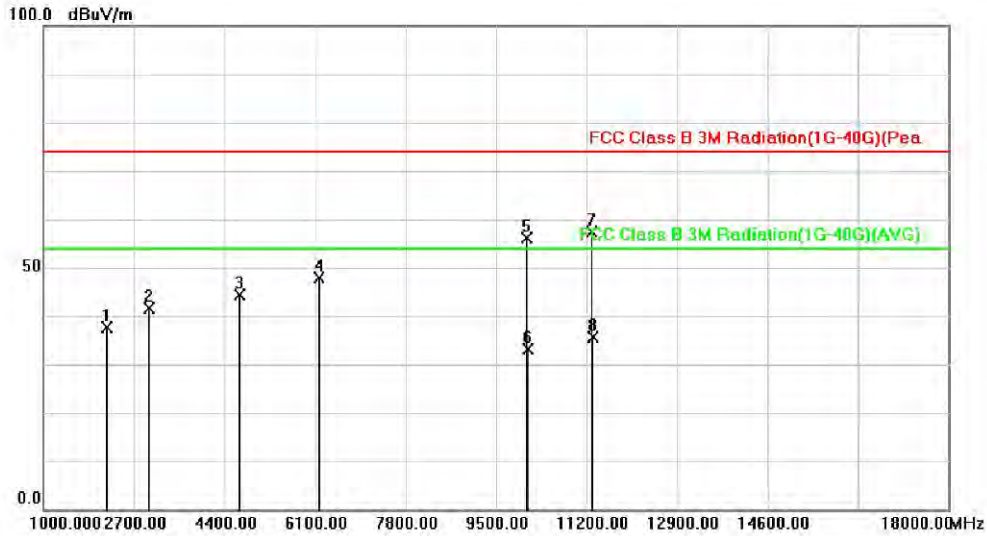
Operation Mode:	Config 2 Recording (Back)	Test Date:	Nov. 18, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1544.000	56.51	-19.51	37.00	74.00	-37.00	peak	
2		2649.000	54.34	-15.69	38.65	74.00	-35.35	peak	
3		3448.000	55.77	-14.26	41.51	74.00	-32.49	peak	
4		5947.000	56.40	-8.77	47.63	74.00	-26.37	peak	
5		11219.021	-16.91	51.78	34.87	54.00	-19.13	AVG	
6		11234.000	5.54	51.79	57.33	74.00	-16.67	peak	
7 *		13835.000	4.94	54.25	59.19	74.00	-14.81	peak	
8		13853.904	-17.38	54.29	36.91	54.00	-17.09	AVG	

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2190.000	55.29	-17.69	37.60	74.00	-36.40	peak	
2		2972.000	56.18	-14.60	41.58	74.00	-32.42	peak	
3		4689.000	55.68	-11.18	44.50	74.00	-29.50	peak	
4		6185.000	55.87	-7.93	47.94	74.00	-26.06	peak	
5		10078.000	54.84	1.30	56.14	74.00	-17.86	peak	
6		10094.058	31.73	1.32	33.05	54.00	-20.95	AVG	
7 *		11302.000	5.65	51.82	57.47	74.00	-16.53	peak	
8		11324.616	-16.27	51.82	35.55	54.00	-18.45	AVG	

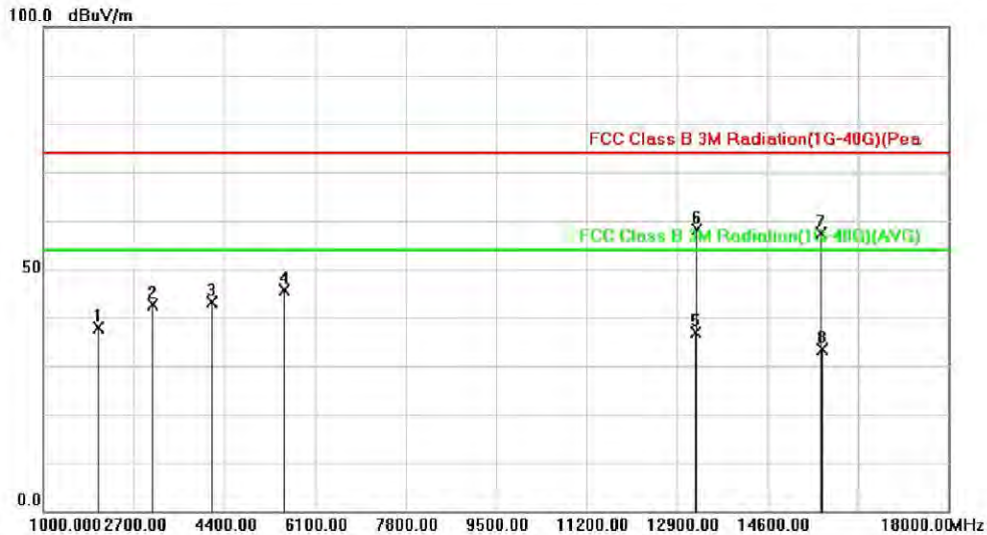
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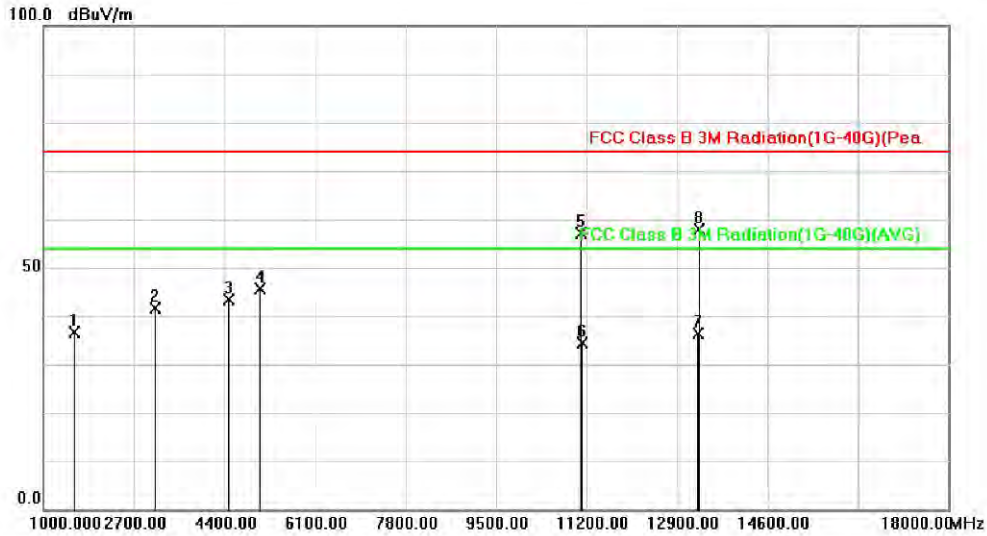
Operation Mode:	Config 2 play recording	Test Date:	Nov. 18, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2037.000	56.32	-18.43	37.89	74.00	-36.11	peak	
2		3040.000	57.18	-14.47	42.71	74.00	-31.29	peak	
3		4162.000	55.63	-12.48	43.15	74.00	-30.85	peak	
4		5522.000	55.68	-9.93	45.75	74.00	-28.25	peak	
5		13258.702	-16.10	52.94	36.84	54.00	-17.16	AVG	
6 *		13274.000	5.14	52.98	58.12	74.00	-15.88	peak	
7		15603.000	5.53	51.88	57.41	74.00	-16.59	peak	
8		15628.338	-18.57	51.85	33.28	54.00	-20.72	AVG	

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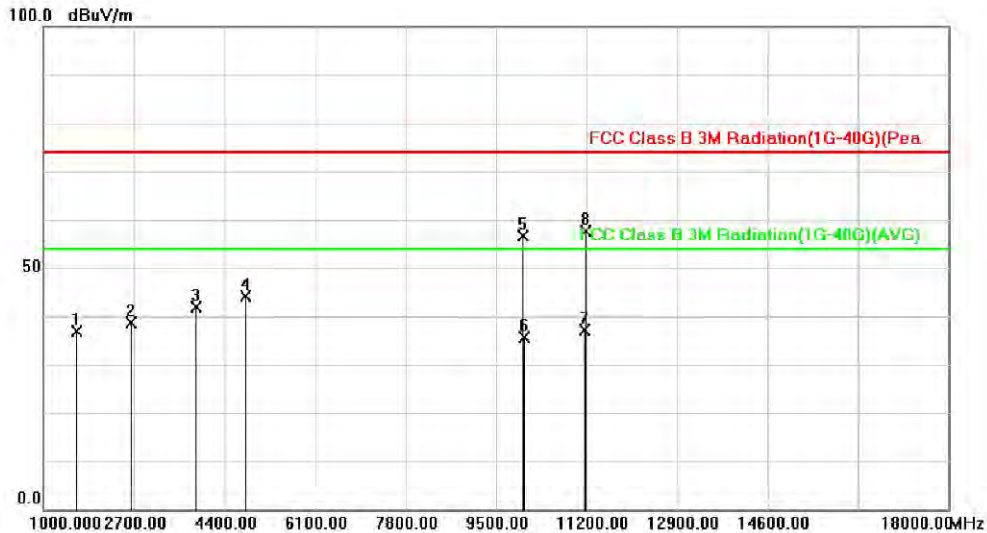
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		1578.000	56.14	-19.46	36.68	74.00	-37.32	peak	
2		3091.000	56.16	-14.44	41.72	74.00	-32.28	peak	
3		4468.000	55.17	-11.67	43.50	74.00	-30.50	peak	
4		5063.000	56.10	-10.44	45.66	74.00	-28.34	peak	
5		11098.000	53.95	3.30	57.25	74.00	-16.75	peak	
6		11117.881	-17.26	51.74	34.48	54.00	-19.52	AVG	
7		13294.908	-16.77	53.04	36.27	54.00	-17.73	AVG	
8 *		13308.000	4.89	53.07	57.96	74.00	-16.04	peak	

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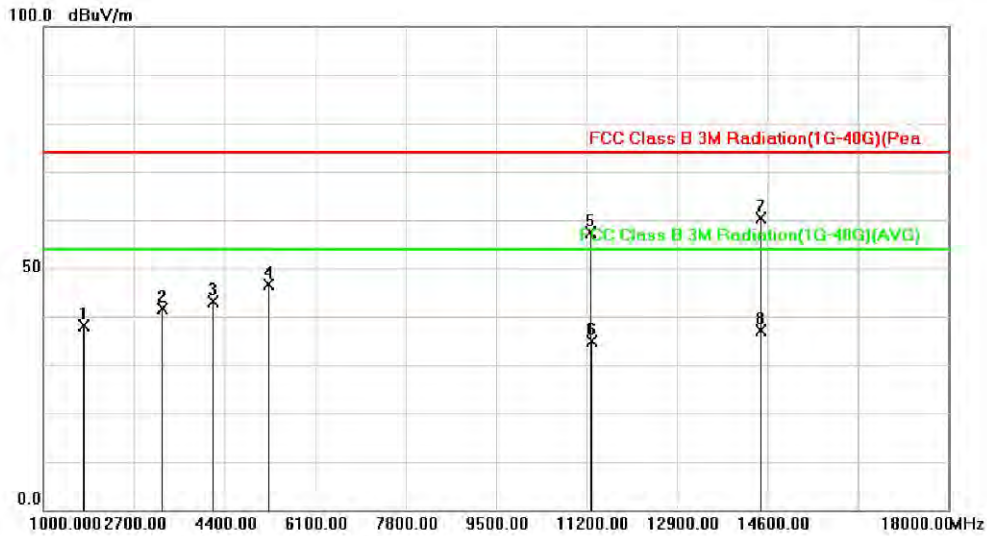
Operation Mode:	Config 2 MP3	Test Date:	Nov. 18, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		1612.000	56.24	-19.40	36.84	74.00	-37.16	peak	
2		2632.000	54.37	-15.75	38.62	74.00	-35.38	peak	
3		3856.000	55.26	-13.27	41.99	74.00	-32.01	peak	
4		4791.000	55.19	-10.96	44.23	74.00	-29.77	peak	
5		10010.000	55.35	1.22	56.57	74.00	-17.43	peak	
6		10023.557	34.42	1.24	35.66	54.00	-18.34	AVG	
7		11169.651	-14.72	51.76	37.04	54.00	-16.96	AVG	
8 *		11183.000	5.90	51.77	57.67	74.00	-16.33	peak	

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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1765.000	57.31	-19.09	38.22	74.00	-35.78	peak	
2		3227.000	56.07	-14.37	41.70	74.00	-32.30	peak	
3		4179.000	55.49	-12.43	43.06	74.00	-30.94	peak	
4		5216.000	56.92	-10.29	46.63	74.00	-27.37	peak	
5		11285.000	5.64	51.81	57.45	74.00	-16.55	peak	
6		11306.111	-16.96	51.82	34.86	54.00	-19.14	AVG	
7 *		14464.000	5.49	55.00	60.49	74.00	-13.51	peak	
8		14482.379	-17.94	55.01	37.07	54.00	-16.93	AVG	

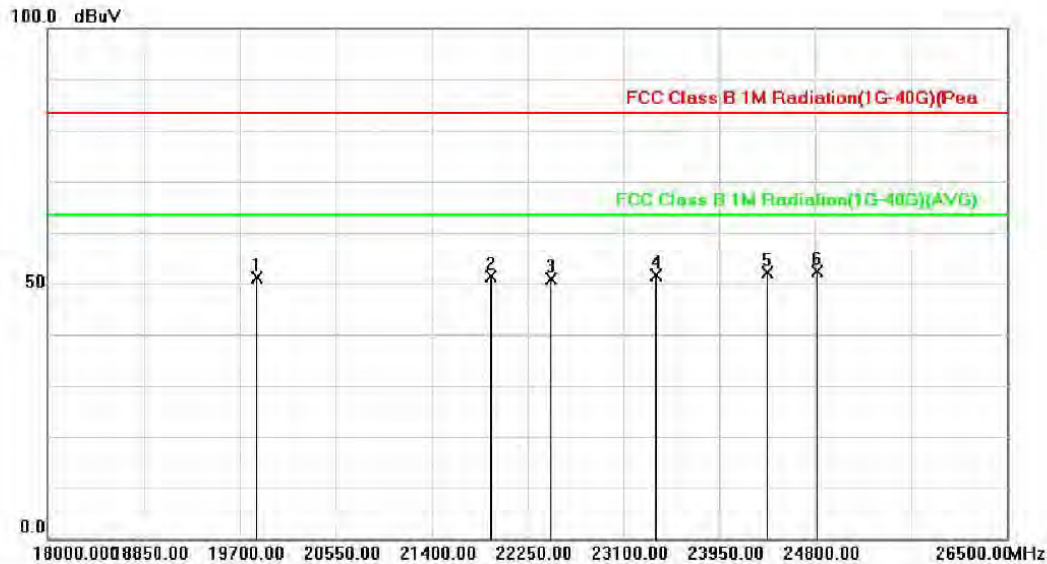
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## Above 18 – 26.5 GHz

Operation Mode:	Config 1 DATA Link (USB)	Test Date:	Jan. 03, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.

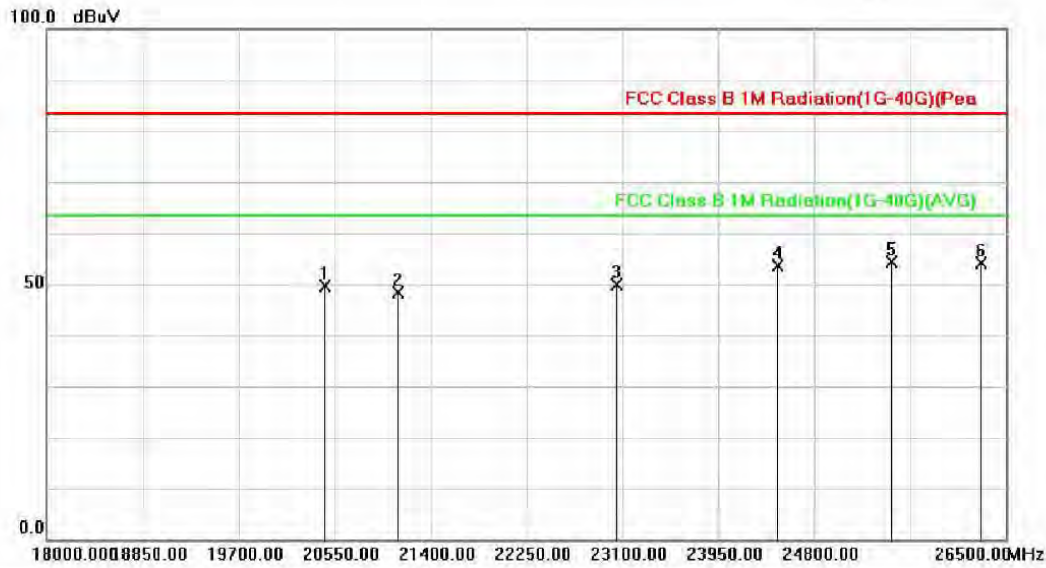


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		19853.000	63.57	-12.49	51.08	83.50	-32.42	peak	
2		21927.000	62.67	-11.26	51.41	83.50	-32.09	peak	
3		22454.000	62.30	-11.32	50.98	83.50	-32.52	peak	
4		23389.000	62.23	-10.51	51.72	83.50	-31.78	peak	
5		24375.000	62.46	-10.24	52.22	83.50	-31.28	peak	
6 *		24817.000	62.09	-9.67	52.42	83.50	-31.08	peak	

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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		20465.000	61.82	-12.18	49.64	83.50	-33.86	peak	
2		21111.000	59.98	-11.66	48.32	83.50	-35.18	peak	
3		23049.000	60.73	-10.76	49.97	83.50	-33.53	peak	
4		24477.000	63.59	-9.98	53.61	83.50	-29.89	peak	
5 *		25480.000	61.78	-7.48	54.30	83.50	-29.20	peak	
6		26279.000	63.31	-9.20	54.11	83.50	-29.39	peak	

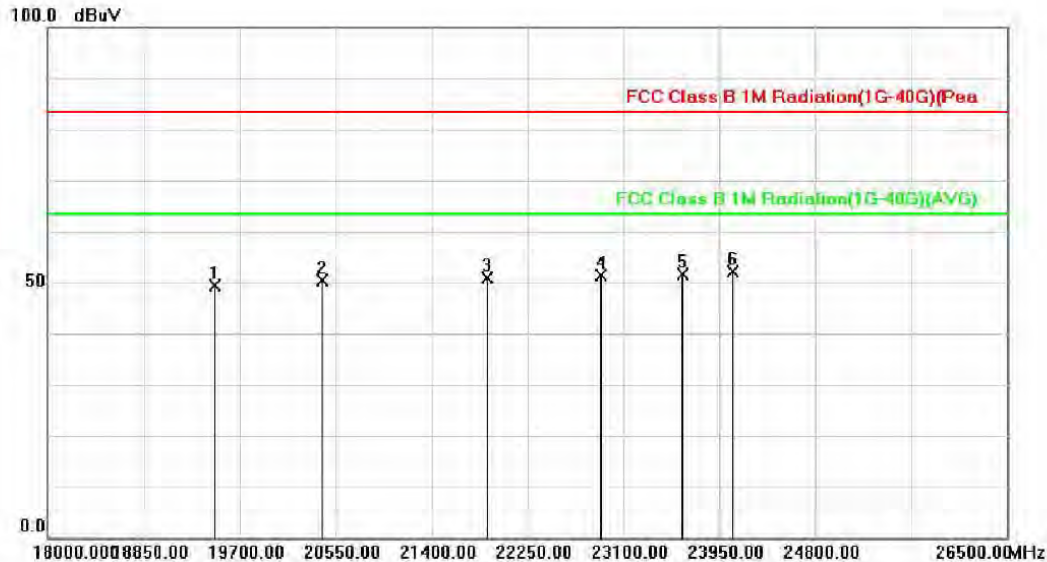
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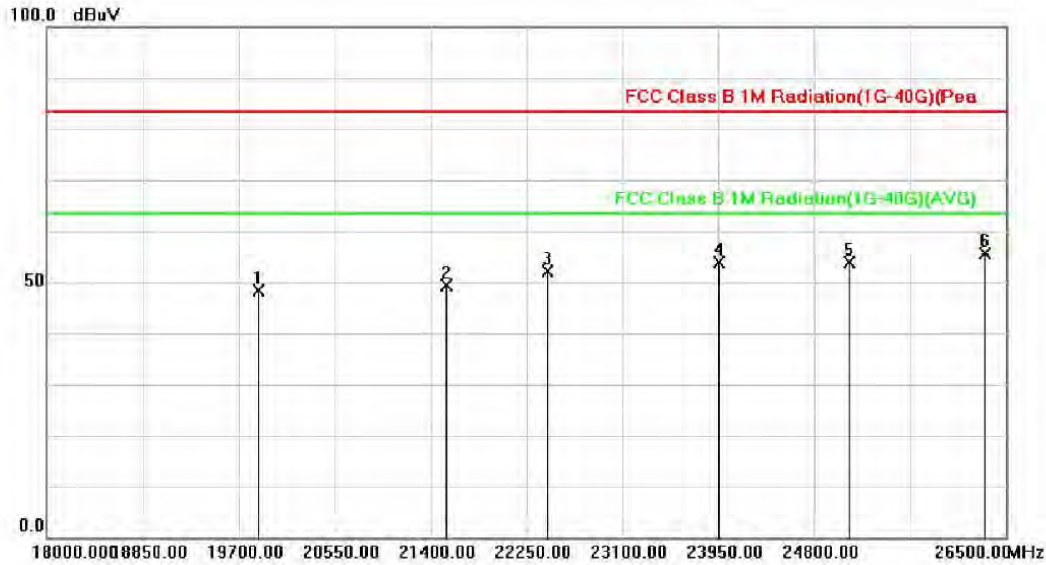
Operation Mode:	Config 2 Recording (Front)	Test Date:	Jan. 03, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		19479.000	60.55	-11.27	49.28	83.50	-34.22	peak	
2		20431.000	62.52	-12.24	50.28	83.50	-33.22	peak	
3		21893.000	62.27	-11.27	51.00	83.50	-32.50	peak	
4		22896.000	62.40	-10.91	51.49	83.50	-32.01	peak	
5		23627.000	62.24	-10.62	51.62	83.50	-31.88	peak	
6 *		24069.000	63.26	-11.03	52.23	83.50	-31.27	peak	

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		19870.000	60.82	-12.55	48.27	83.50	-35.23	peak	
2		21536.000	60.93	-11.43	49.50	83.50	-34.00	peak	
3		22437.000	63.39	-11.32	52.07	83.50	-31.43	peak	
4		23950.000	64.90	-11.12	53.78	83.50	-29.72	peak	
5		25106.000	62.99	-9.07	53.92	83.50	-29.58	peak	
6 *		26313.000	64.78	-9.26	55.52	83.50	-27.98	peak	

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

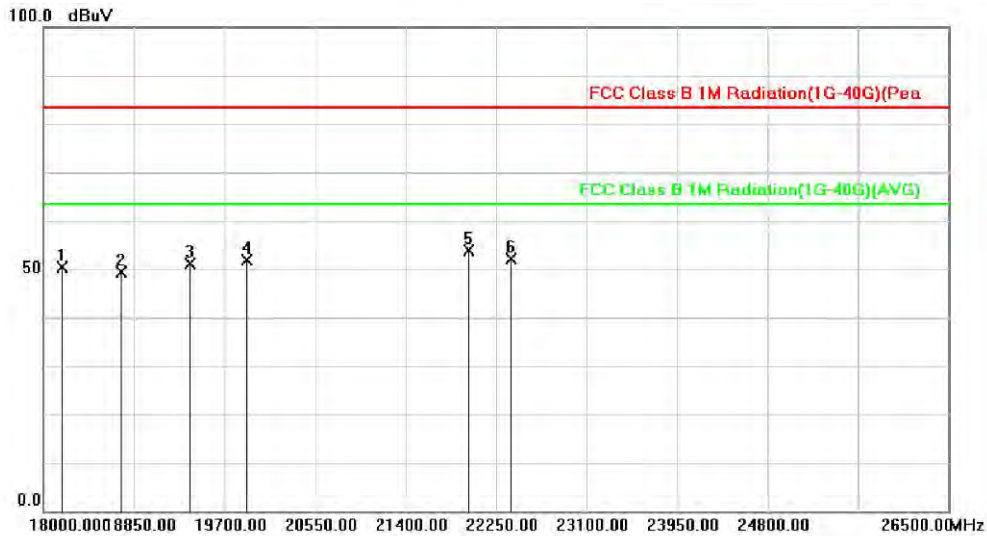
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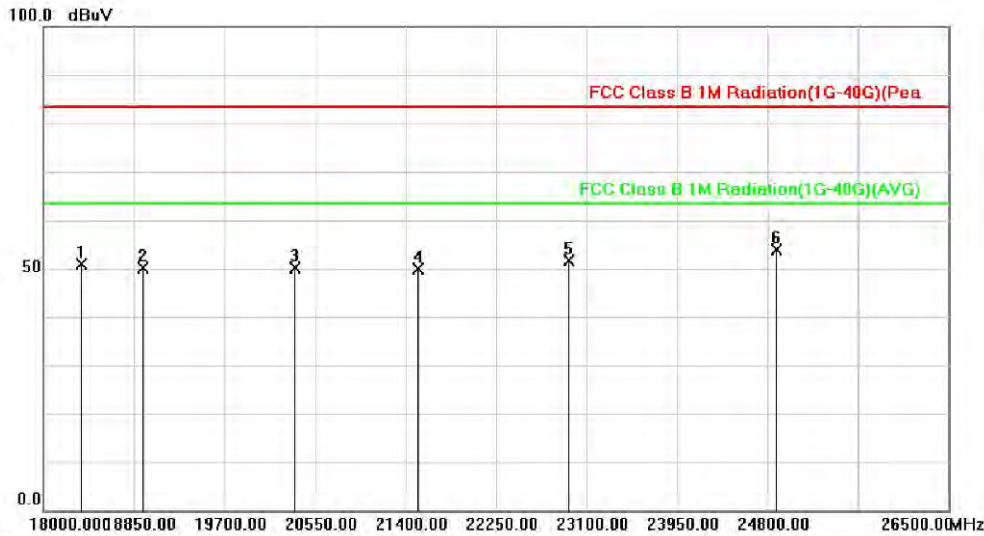
Operation Mode:	Config 2 Recording (Back)	Test Date:	Nov. 18, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		18170.000	63.20	-12.93	50.27	83.50	-33.23	peak	
2		18731.000	61.56	-12.14	49.42	83.50	-34.08	peak	
3		19377.000	62.57	-11.38	51.19	83.50	-32.31	peak	
4		19904.000	64.66	-12.67	51.99	83.50	-31.51	peak	
5 *		21995.000	65.12	-11.23	53.89	83.50	-29.61	peak	
6		22386.000	63.37	-11.31	52.06	83.50	-31.44	peak	

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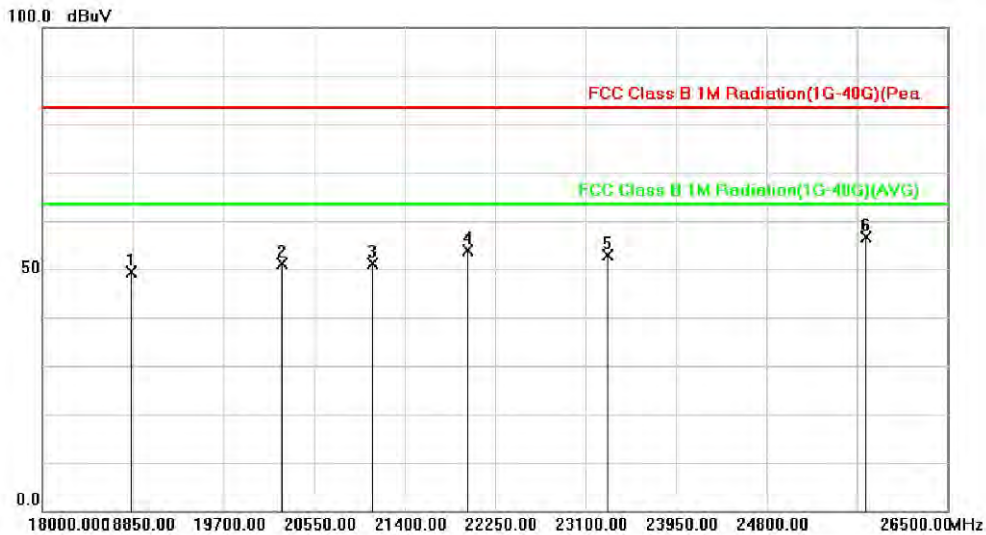
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		18357.000	63.56	-12.65	50.91	83.50	-32.59	peak	
2		18935.000	62.10	-11.87	50.23	83.50	-33.27	peak	
3		20363.000	62.57	-12.36	50.21	83.50	-33.29	peak	
4		21519.000	61.41	-11.43	49.98	83.50	-33.52	peak	
5		22930.000	62.58	-10.87	51.71	83.50	-31.79	peak	
6 *		24885.000	63.56	-9.61	53.95	83.50	-29.55	peak	

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Operation Mode:	Config 2 play recording	Test Date:	Nov. 18, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.

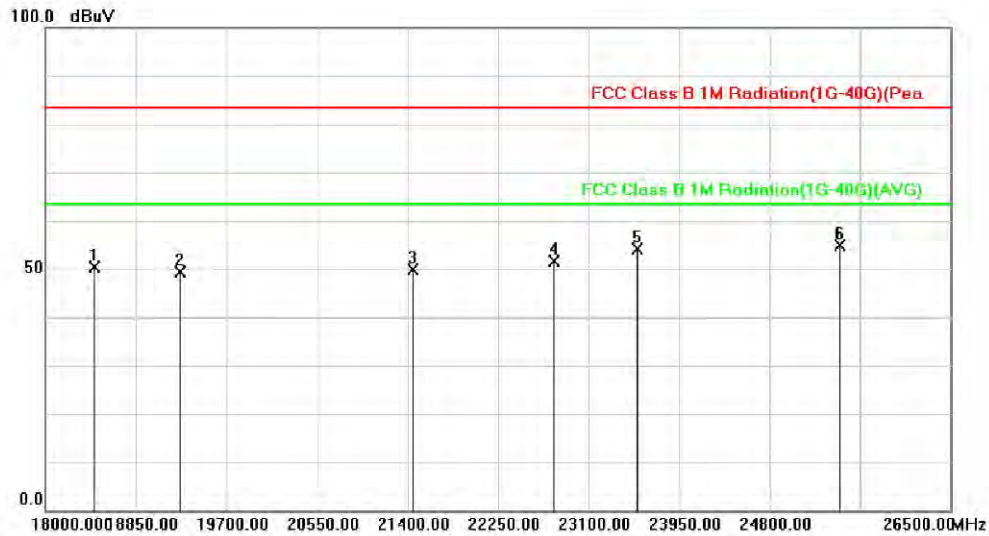


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		18833.000	61.28	-12.00	49.28	83.50	-34.22	peak	
2		20244.000	63.62	-12.58	51.04	83.50	-32.46	peak	
3		21094.000	62.85	-11.67	51.18	83.50	-32.32	peak	
4		21995.000	65.12	-11.23	53.89	83.50	-29.61	peak	
5		23304.000	63.53	-10.58	52.95	83.50	-30.55	peak	
6 *		25735.000	64.58	-8.03	56.55	83.50	-26.95	peak	

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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		18459.000	62.92	-12.50	50.42	83.50	-33.08	peak	
2		19258.000	60.88	-11.50	49.38	83.50	-34.12	peak	
3		21451.000	61.45	-11.47	49.98	83.50	-33.52	peak	
4		22777.000	62.56	-11.04	51.52	83.50	-31.98	peak	
5		23559.000	64.61	-10.52	54.09	83.50	-29.41	peak	
6 *		25463.000	62.40	-7.55	54.85	83.50	-28.65	peak	

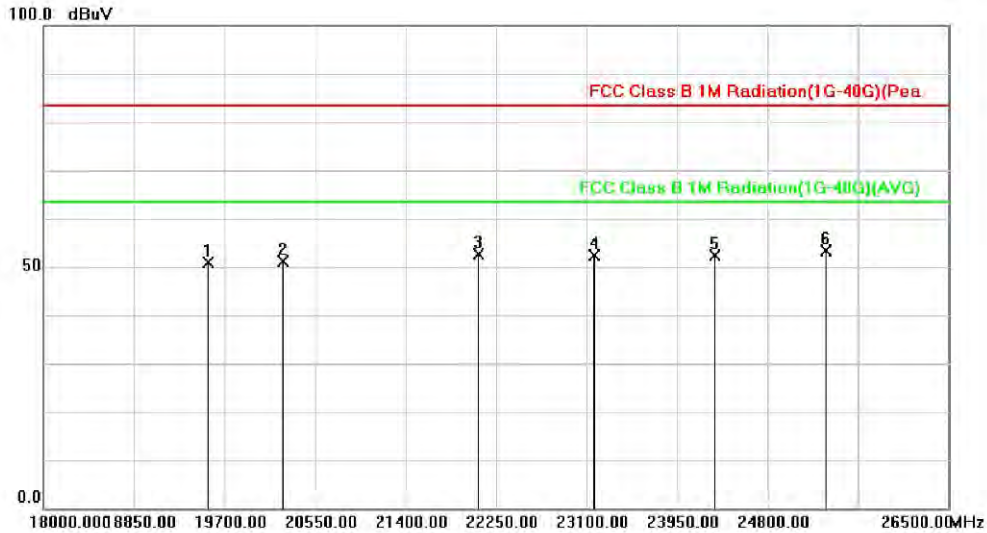
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Operation Mode:	Config 2 MP3	Test Date:	Nov. 18, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



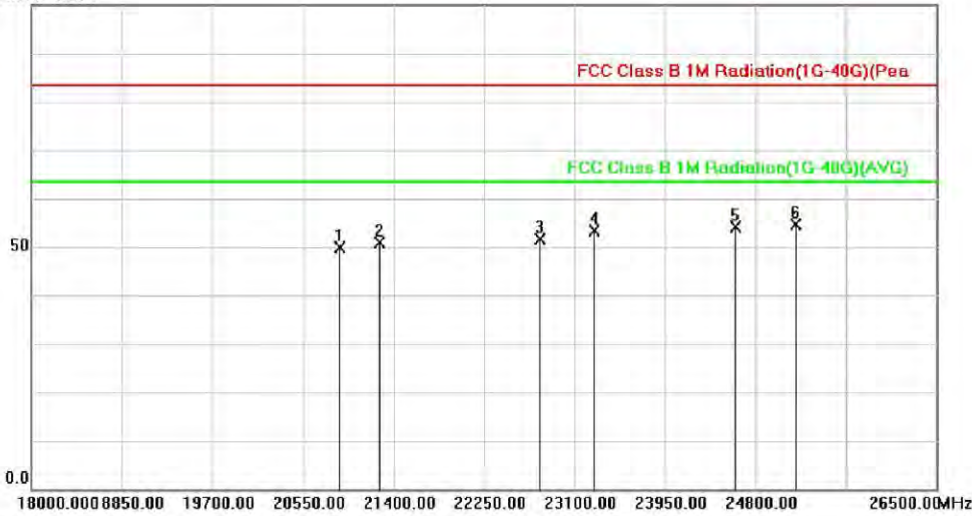
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		19547.000	62.29	-11.41	50.88	83.50	-32.62	peak	
2		20244.000	63.62	-12.58	51.04	83.50	-32.46	peak	
3		22080.000	63.82	-11.25	52.57	83.50	-30.93	peak	
4		23168.000	63.13	-10.68	52.45	83.50	-31.05	peak	
5		24307.000	62.84	-10.41	52.43	83.50	-31.07	peak	
6 *		25344.000	61.52	-8.05	53.47	83.50	-30.03	peak	

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100.0 dBuV



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		20890.000	61.63	-11.80	49.83	83.50	-33.67	peak	
2		21264.000	62.47	-11.57	50.90	83.50	-32.60	peak	
3		22777.000	62.56	-11.04	51.52	83.50	-31.98	peak	
4		23287.000	64.04	-10.59	53.45	83.50	-30.05	peak	
5		24613.000	63.88	-9.83	54.05	83.50	-29.45	peak	
6 *		25174.000	63.48	-8.78	54.70	83.50	-28.80	peak	

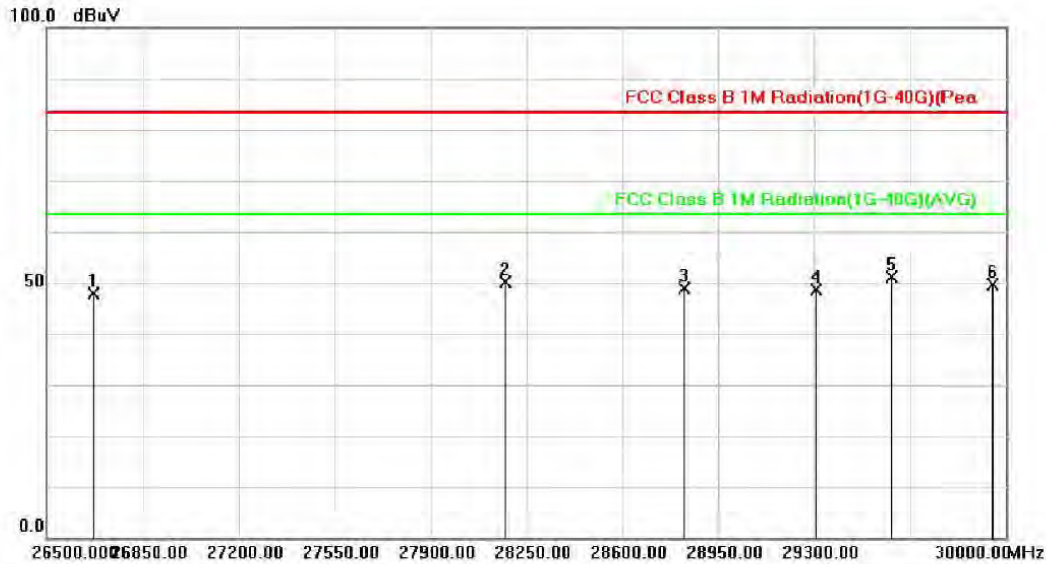
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## Above 26.5 – 30 GHz

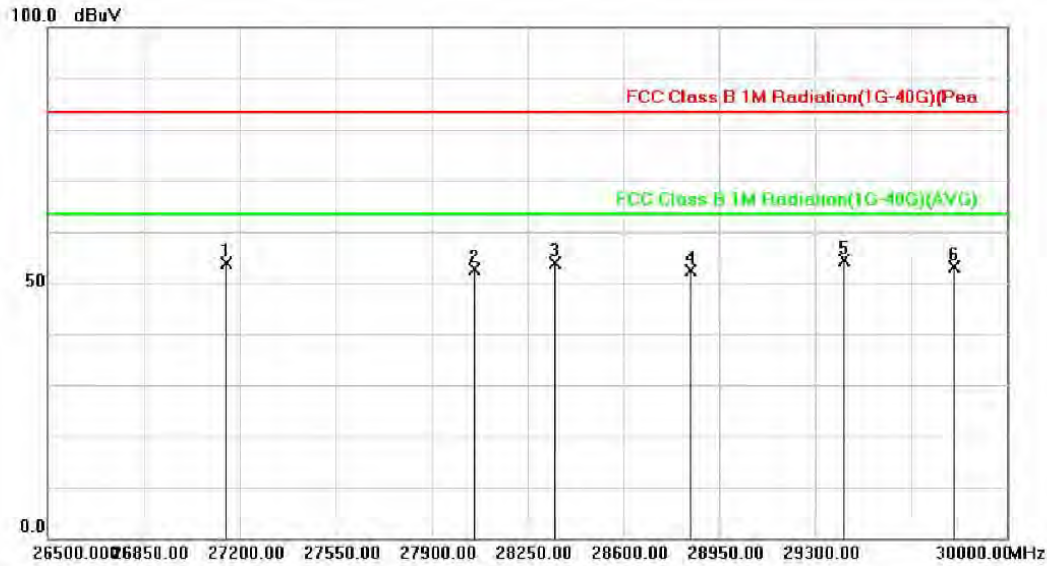
Operation Mode:	Config 1 DATA Link (USB)	Test Date:	Jan. 03, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		26668.000	57.66	-9.76	47.90	83.50	-35.60	peak	
2		28173.000	60.99	-10.95	50.04	83.50	-33.46	peak	
3		28824.000	60.38	-11.56	48.82	83.50	-34.68	peak	
4		29307.000	60.92	-12.26	48.66	83.50	-34.84	peak	
5 *		29580.000	63.40	-12.27	51.13	83.50	-32.37	peak	
6		29951.000	61.96	-12.26	49.70	83.50	-33.80	peak	

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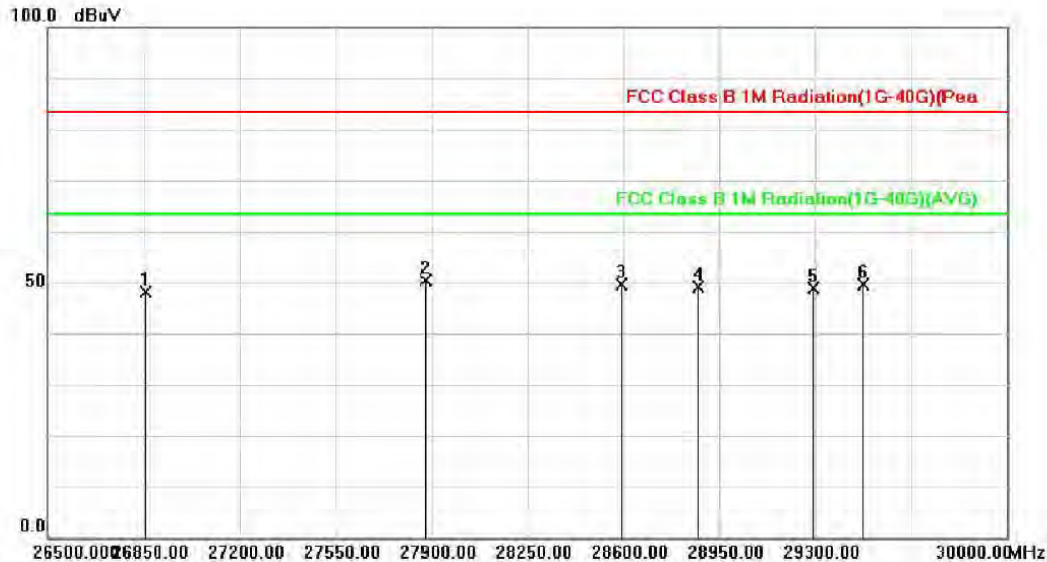
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		27151.000	64.13	-10.35	53.78	83.50	-29.72	peak	
2		28054.000	63.80	-11.18	52.62	83.50	-30.88	peak	
3		28348.000	64.59	-10.62	53.97	83.50	-29.53	peak	
4		28845.000	64.07	-11.65	52.42	83.50	-31.08	peak	
5	*	29405.000	66.56	-12.27	54.29	83.50	-29.21	peak	
6		29804.000	65.40	-12.27	53.13	83.50	-30.37	peak	

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Operation Mode:	Config 2 Recording (Front)	Test Date:	Jan. 03, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.

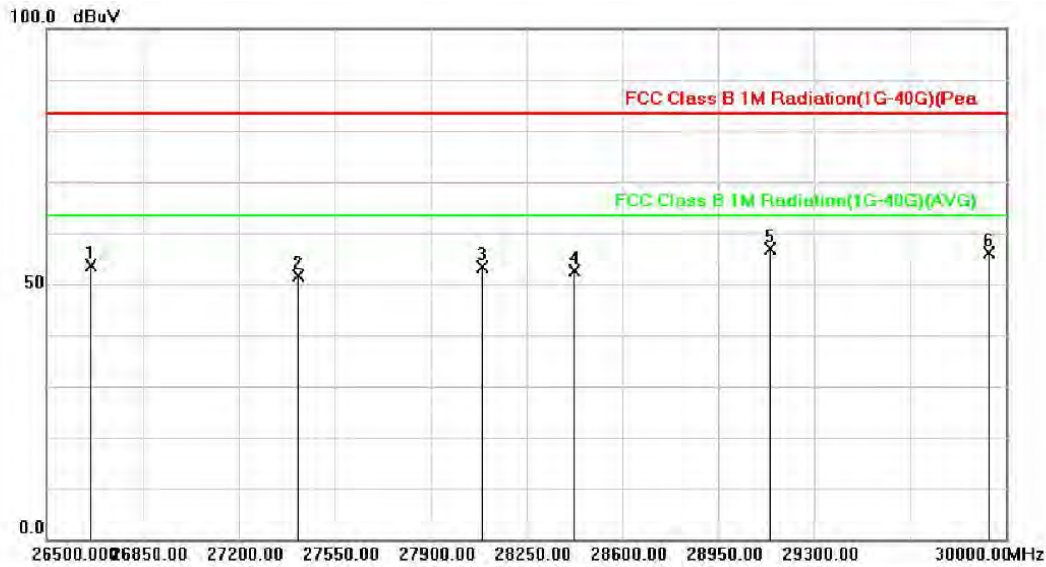


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		26857.000	58.08	-9.96	48.12	83.50	-35.38	peak	
2	*	27879.000	61.64	-11.18	50.46	83.50	-33.04	peak	
3		28593.000	60.36	-10.68	49.68	83.50	-33.82	peak	
4		28873.000	60.81	-11.75	49.06	83.50	-34.44	peak	
5		29293.000	61.17	-12.25	48.92	83.50	-34.58	peak	
6		29475.000	61.96	-12.26	49.70	83.50	-33.80	peak	

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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		26661.000	63.30	-9.74	53.56	83.50	-29.94	peak	
2		27417.000	62.35	-10.74	51.61	83.50	-31.89	peak	
3		28089.000	64.56	-11.12	53.44	83.50	-30.06	peak	
4		28425.000	63.07	-10.46	52.61	83.50	-30.89	peak	
5 *		29139.000	69.10	-12.25	56.85	83.50	-26.65	peak	
6		29937.000	68.34	-12.26	56.08	83.50	-27.42	peak	

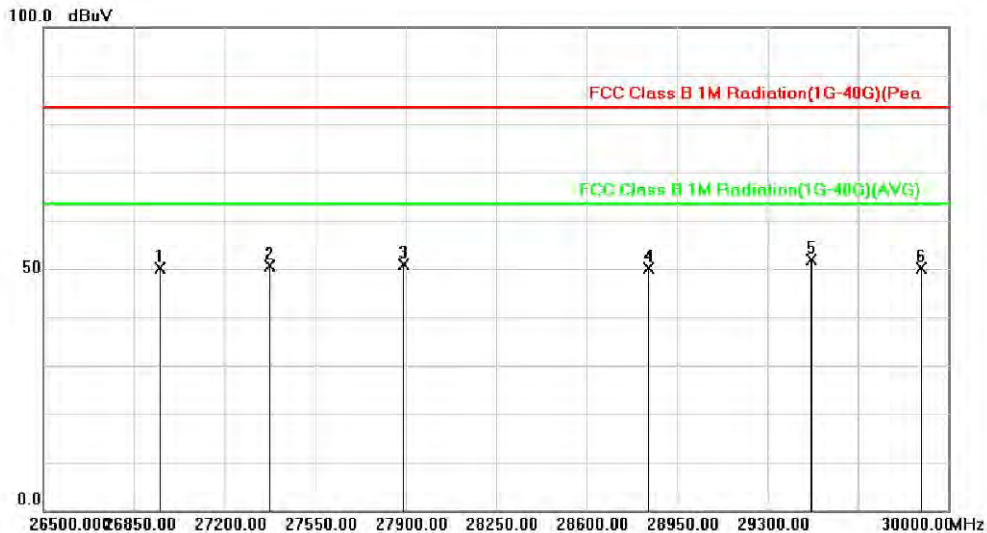
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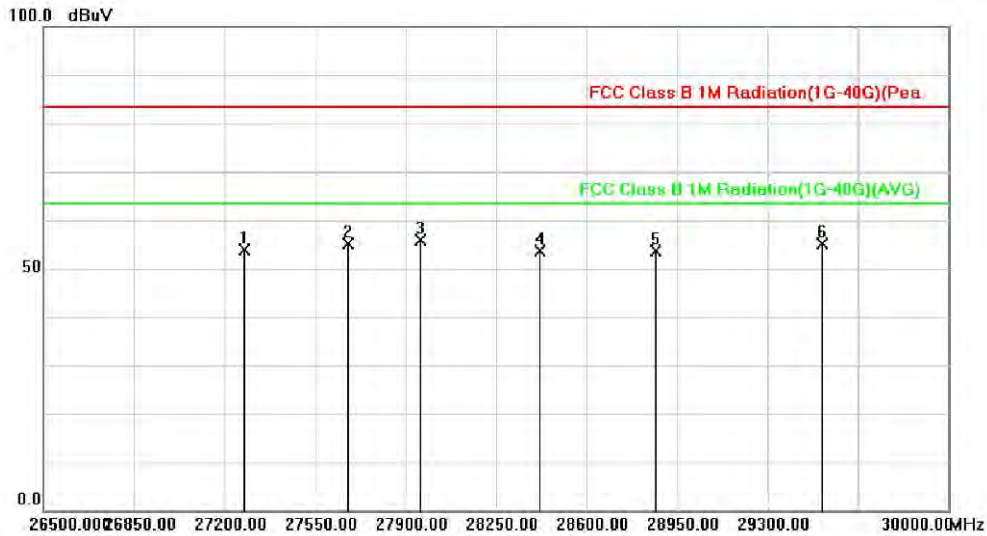
Operation Mode:	Config 2 Recording (Back)	Test Date:	Nov. 18, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		26948.000	60.27	-10.07	50.20	83.50	-33.30	peak	
2		27375.000	61.36	-10.68	50.68	83.50	-32.82	peak	
3		27893.000	62.15	-11.19	50.96	83.50	-32.54	peak	
4		28838.000	61.79	-11.62	50.17	83.50	-33.33	peak	
5 *		29468.000	64.06	-12.27	51.79	83.50	-31.71	peak	
6		29895.000	62.49	-12.26	50.23	83.50	-33.27	peak	

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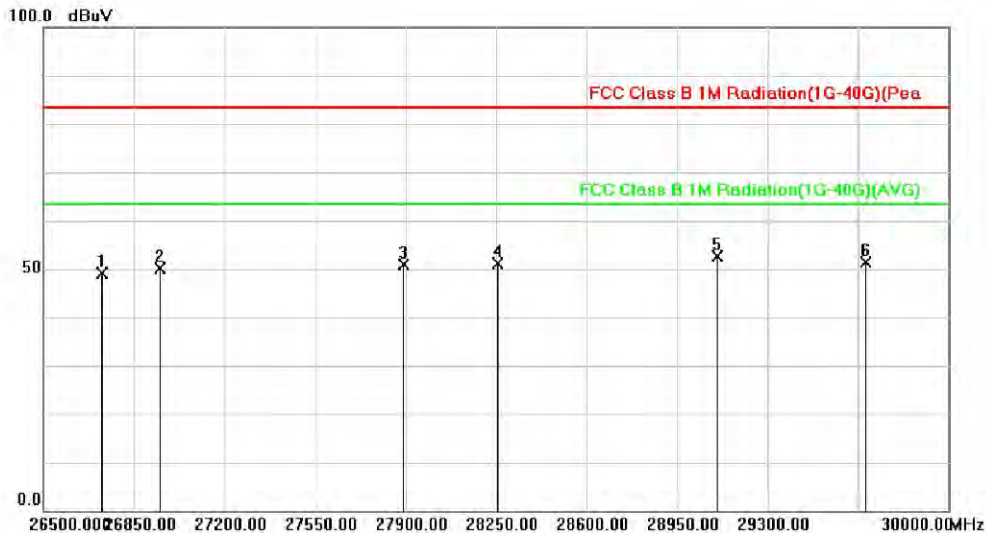
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		27277.000	64.36	-10.54	53.82	83.50	-29.68	peak	
2		27676.000	66.19	-11.01	55.18	83.50	-28.32	peak	
3	*	27956.000	67.10	-11.26	55.84	83.50	-27.66	peak	
4		28418.000	63.99	-10.48	53.51	83.50	-29.99	peak	
5		28866.000	65.39	-11.72	53.67	83.50	-29.83	peak	
6		29510.000	67.29	-12.27	55.02	83.50	-28.48	peak	

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Operation Mode:	Config 2 play recording	Test Date:	Nov. 18, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



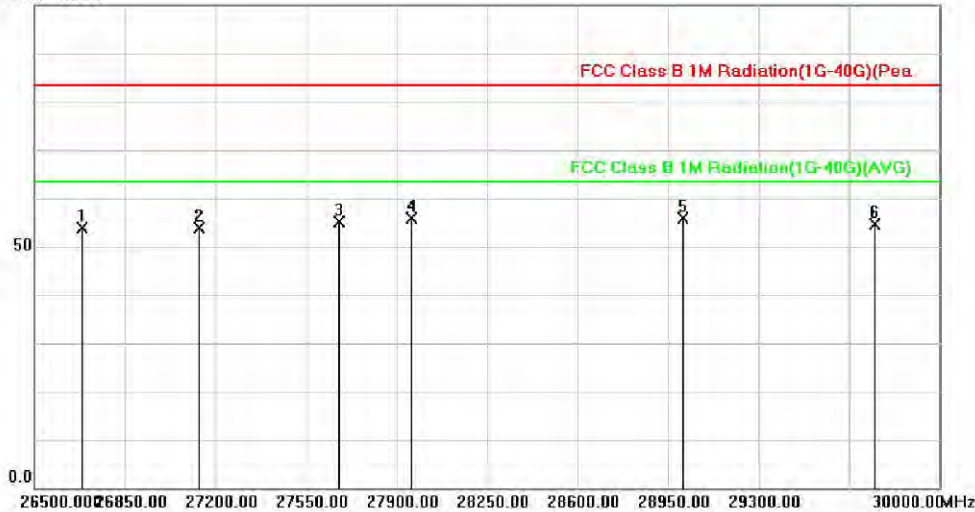
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		26724.000	58.83	-9.81	49.02	83.50	-34.48	peak	
2		26948.000	60.27	-10.07	50.20	83.50	-33.30	peak	
3		27893.000	62.15	-11.19	50.96	83.50	-32.54	peak	
4		28257.000	61.86	-10.79	51.07	83.50	-32.43	peak	
5 *		29104.000	64.90	-12.25	52.65	83.50	-30.85	peak	
6		29678.000	63.70	-12.27	51.43	83.50	-32.07	peak	

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100.0 dBuV



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		26682.000	63.74	-9.76	53.98	83.50	-29.52	peak	
2		27137.000	64.11	-10.33	53.78	83.50	-29.72	peak	
3		27676.000	66.19	-11.01	55.18	83.50	-28.32	peak	
4		27956.000	67.10	-11.26	55.84	83.50	-27.66	peak	
5 *		29006.000	68.13	-12.24	55.89	83.50	-27.61	peak	
6		29748.000	66.99	-12.26	54.73	83.50	-28.77	peak	

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

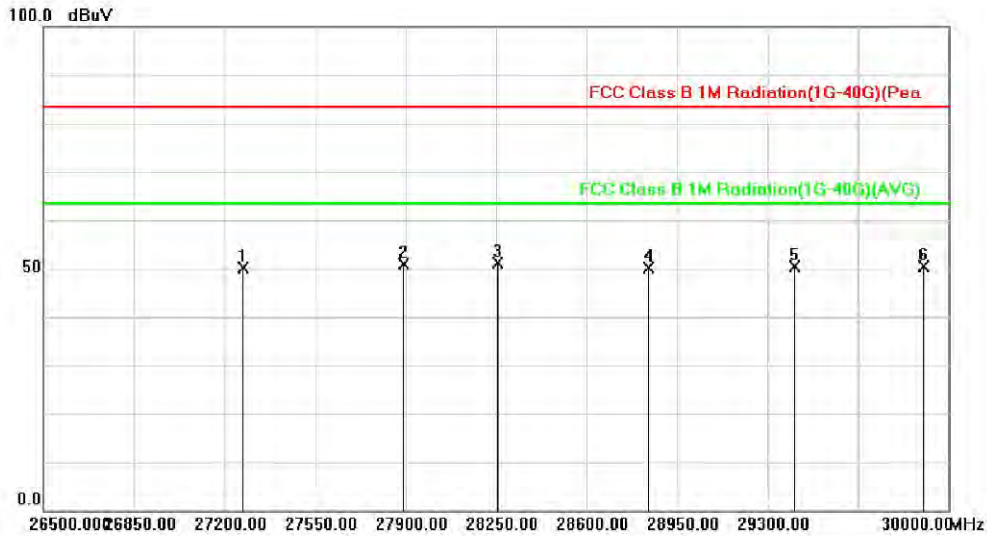
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Operation Mode:	Config 2 MP3	Test Date:	Nov. 18, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		27270.000	60.65	-10.52	50.13	83.50	-33.37	peak	
2		27893.000	62.15	-11.19	50.96	83.50	-32.54	peak	
3 *		28257.000	61.86	-10.79	51.07	83.50	-32.43	peak	
4		28838.000	61.79	-11.62	50.17	83.50	-33.33	peak	
5		29405.000	62.72	-12.27	50.45	83.50	-33.05	peak	
6		29902.000	62.68	-12.26	50.42	83.50	-33.08	peak	

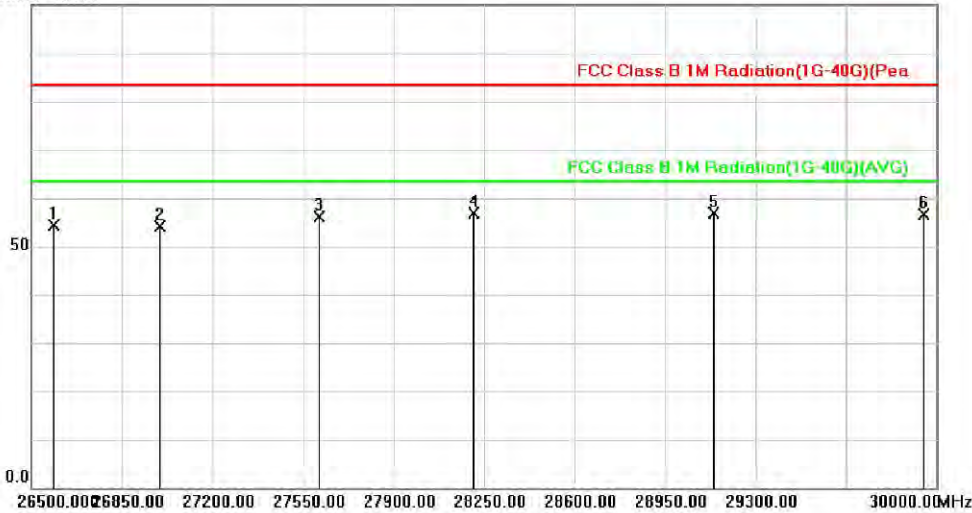
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100.0 dBuV



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		26584.000	64.05	-9.65	54.40	83.50	-29.10	peak	
2		26997.000	64.34	-10.12	54.22	83.50	-29.28	peak	
3		27613.000	67.07	-10.95	56.12	83.50	-27.38	peak	
4		28208.000	67.70	-10.88	56.82	83.50	-26.68	peak	
5	*	29139.000	69.10	-12.25	56.85	83.50	-26.65	peak	
6		29951.000	68.86	-12.26	56.60	83.50	-26.90	peak	

\*\* End of Report \*\*

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f (886-2) 2298-0488

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