



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-0850-BV
Added Model(s): N/A
Model Difference: N/A
FCC ID: PY7-PM0850
Report No.: EM/2014/C0068
Issue Date: Jan. 15, 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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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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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-0850-BV

Added Model(s): N/A

Model Difference: N/A

FCC ID: PM-0850-BV

File Number: EM/2014/C0068

Date of EUT Received: Dec. 24, 2014

Date of test: Dec. 24, 2014 ~ Jan. 06, 2014

Issue Date: Jan. 15, 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. 15, 2015

Eddy Cheng / Engineer

Prepared By: Anna Huang

Date: Jan. 15, 2015

Anna Huang / Clerk

Approved By: Victor Wen

Date: Jan. 15, 2015

Victor Wen / Assistant Manager

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Revision History

Report Number	Revision	Description	Issue Date
EM/2014/C0068	Rev.00	Initial Version	Jan. 12, 2015
EM/2014/C0068	Rev.01	Revised HRE data	Jan. 15, 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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1. General Information

1.1 Product description

General:

Product Name:	Mobile Phone	
Brand Name:	Sony	
Type No.:	PM-0850-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 :	Model No.: MH410c, Supplier: Foster Electric Type No.: AG-1100	
Car Charger:	Model No.: AN400, Supplier: Salcomp Type No.: CAA-0003013	
Hi-Fi Wireless Headset:	Model No.: SBH20, Supplier: Sony Type No.: RD-0010, BT Headset with wired earpiece (Marketing Name: MH755, 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:	004402453778411	

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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

NFC:

Operating Frequency	13.56MHz
Transmit Power	< 123dBuV/m at 3m.
Number of Channels	1
Antenna Type	Loop Antenna
Modulation Type	ASK, BPSK

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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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t (886-2) 2299-3279

f (886-2) 2298-0488

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated 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 V	826.4MHz - 846.6MHz	24dBm
		1.4MHz BW LTE-Band 2	1850.7MHz– 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	1855.0MHz – 1905.0MHz	23dBm
		15MHz BW LTE-Band 2	1857.5MHz – 1902.5MHz	23dBm
		20MHz BW LTE-Band 2	1860.0MHz – 1900.0MHz	23dBm
		1.4MHz BW LTE-Band 5	824.7MHz – 848.3MHz	23dBm
		3MHz BW LTE-Band 5	825.5MHz – 848.3MHz	23dBm
		5MHz BW LTE-Band 5	826.5MHz – 846.5MHz	23dBm
		10MHz BW LTE-Band 5	829.0MHz – 844.0MHz	23dBm
		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
		15MHz BW LTE-Band 7	2510.0MHz – 2560.0MHz	23dBm

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Type of Emission:

GSM 850: 250KGXW, GSM 1900: 248KGXW
 GPRS 850: 250KGXW, GPRS 1900: 247KGXW
 EDGE 850: 250KG7W, EDGE 1900: 253KG7W
 WCDMA Band II: 4M23F9W,
 WCDMA Band V: 4M23F9W
 HSDPA Band II: 4M20F9W,
 HSDPA Band V: 4M22F9W
 HSUPA Band II: 4M21F9W,
 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: 4M55G7D
 5MHz BW LTE-Band 2 16QAM: 4M53D7W
 10MHz BW LTE-Band 2 QPSK: 8M98G7D
 10MHz BW LTE-Band 2 16QAM: 8M99D7W
 15MHz BW LTE-Band 2 QPSK: 13M53G7D
 15MHz BW LTE-Band 2 16QAM: 13M52D7W
 20MHz BW LTE-Band 2 QPSK: 18M00G7D
 20MHz BW LTE-Band 2 16QAM: 18M00D7W
 1.4MHz BW LTE-Band 5 QPSK:1M10G7D
 1.4MHz BW LTE-Band 5 16QAM: 1M10D7W
 3MHz BW LTE-Band 5 QPSK: 2M70G7D
 3MHz BW LTE-Band 5 16QAM: 2M71D7W
 5MHz BW LTE-Band 5 QPSK: 4M54G7D
 5MHz BW LTE-Band 5 16QAM: 4M53D7W
 10MHz BW LTE-Band 5 QPSK: 9M03G7D
 10MHz BW LTE-Band 5 16QAM: 9M05D7W
 5MHz BW LTE-Band 7 QPSK: 4M53G7D
 5MHz BW LTE-Band 7 16QAM: 4M53D7W
 10MHz BW LTE-Band 7 QPSK: 9M23G7D
 10MHz BW LTE-Band 7 16QAM: 9M22D7W
 15MHz BW LTE-Band 7 QPSK: 13M93G7D
 15MHz BW LTE-Band 7 16QAM: 13M52D7W
 20MHz BW LTE-Band 7 QPSK: 18M72G7D
 20MHz BW LTE-Band 7 16QAM: 18M70D7W

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1.2 Test Plan

Test Plan:

PM-0850-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 & NFC ON)	FULL SYSTEM + Idle(WWAN.WIFI.BT.GPS & NFC ON)
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

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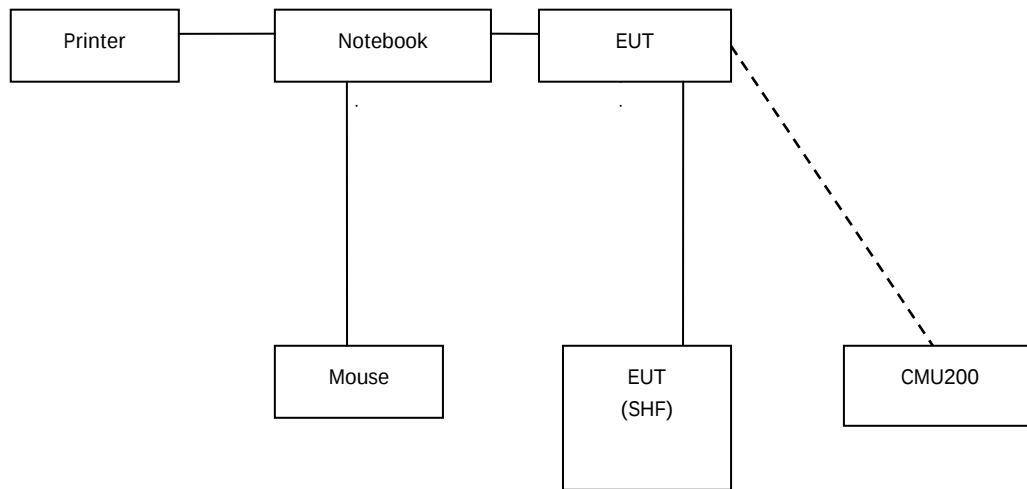


1.6 Cable List

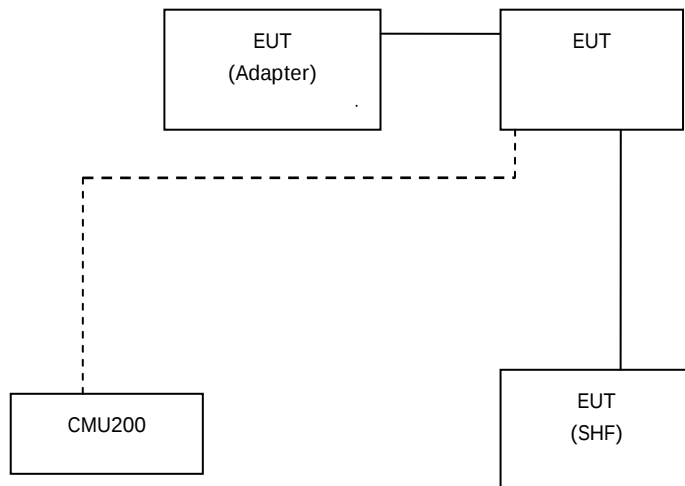
Cable Type	Length	Shielding / Non-shielding
USB cable with core near EUT, near Adapter	1.0 m	Shielding

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	0.1647	-15.45(QP)
			Neutral	2.7900	-13.26(QP)
	Radiated Emission	PASS	Ver.	30.0300	-8.06(QP)

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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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	Dec. 30, 2014	Dec. 29, 2015
Coaxial Cables	N/A	WK CE Cable	N/A	Nov. 26, 2014	Nov. 25, 2015
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
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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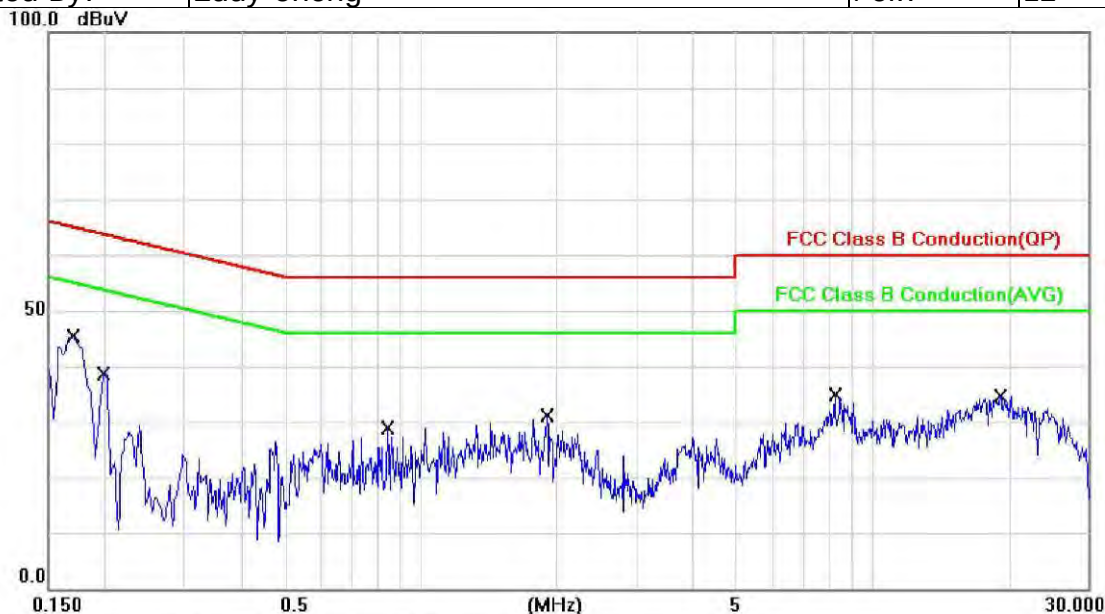
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2.4.6 Measurement Data

Operation Mode:	Config 1 DATA Link (USB)	Test Date:	Dec. 30, 2014
Tested By:	Eddy Cheng	Pol.:	L1



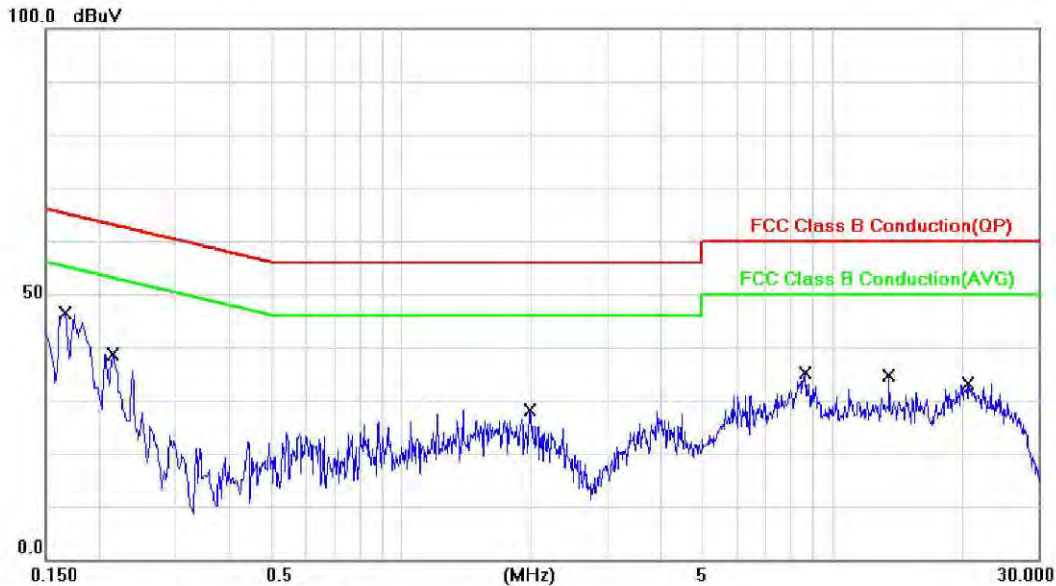
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1700	42.70	0.07	42.77	64.96	-22.19	QP	
2		0.1700	27.60	0.07	27.67	54.96	-27.29	AVG	
3		0.1980	34.70	0.07	34.77	63.69	-28.92	QP	
4		0.1980	15.60	0.07	15.67	53.69	-38.02	AVG	
5		0.8460	23.10	0.08	23.18	56.00	-32.82	QP	
6		0.8460	9.80	0.08	9.88	46.00	-36.12	AVG	
7		1.8980	24.00	0.10	24.10	56.00	-31.90	QP	
8		1.8980	13.40	0.10	13.50	46.00	-32.50	AVG	
9		8.2620	27.00	0.28	27.28	60.00	-32.72	QP	
10		8.2620	19.70	0.28	19.98	50.00	-30.02	AVG	
11		19.2180	27.90	0.56	28.46	60.00	-31.54	QP	
12		19.2180	19.00	0.56	19.56	50.00	-30.44	AVG	

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Operation Mode:	Config 1 DATA Link (USB)	Test Date:	Dec. 30, 2014
Tested By:	Eddy Cheng	Pol.:	N



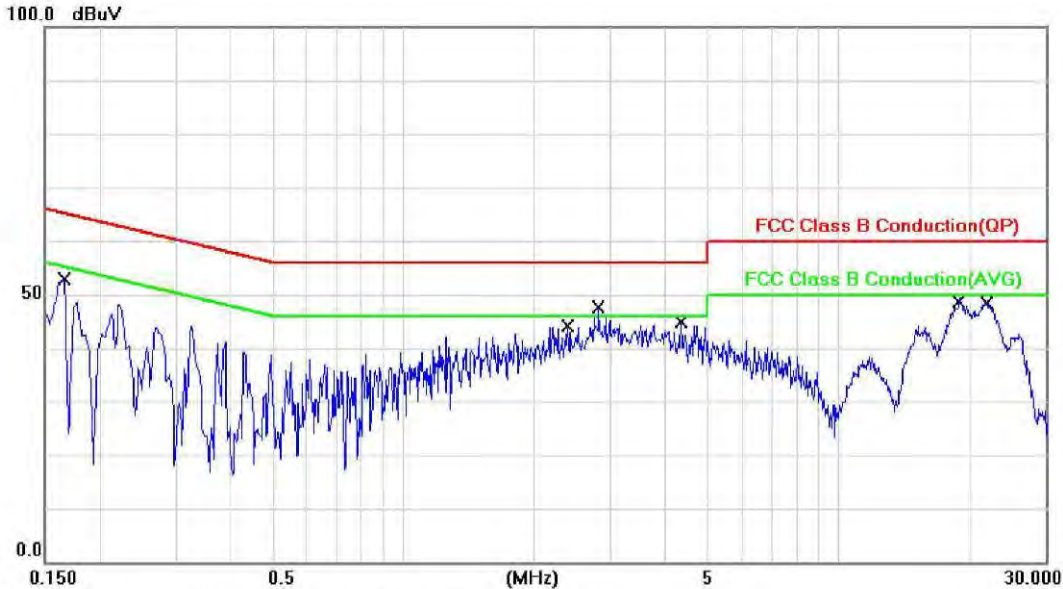
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1660	44.10	0.05	44.15	65.16	-21.01	QP	
2		0.1660	28.50	0.05	28.55	55.16	-26.61	AVG	
3		0.2140	32.00	0.06	32.06	63.05	-30.99	QP	
4		0.2140	13.20	0.06	13.26	53.05	-39.79	AVG	
5		1.9900	18.40	0.12	18.52	56.00	-37.48	QP	
6		1.9900	7.50	0.12	7.62	46.00	-38.38	AVG	
7		8.6700	27.30	0.30	27.60	60.00	-32.40	QP	
8		8.6700	19.20	0.30	19.50	50.00	-30.50	AVG	
9		13.5340	24.30	0.42	24.72	60.00	-35.28	QP	
10		13.5340	16.30	0.42	16.72	50.00	-33.28	AVG	
11		20.6820	25.30	0.59	25.89	60.00	-34.11	QP	
12		20.6820	16.80	0.59	17.39	50.00	-32.61	AVG	

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Operation Mode:	Config 2 Recording (Front)	Test Date:	Dec. 30, 2014
Tested By:	Eddy Cheng	Pol.:	L1



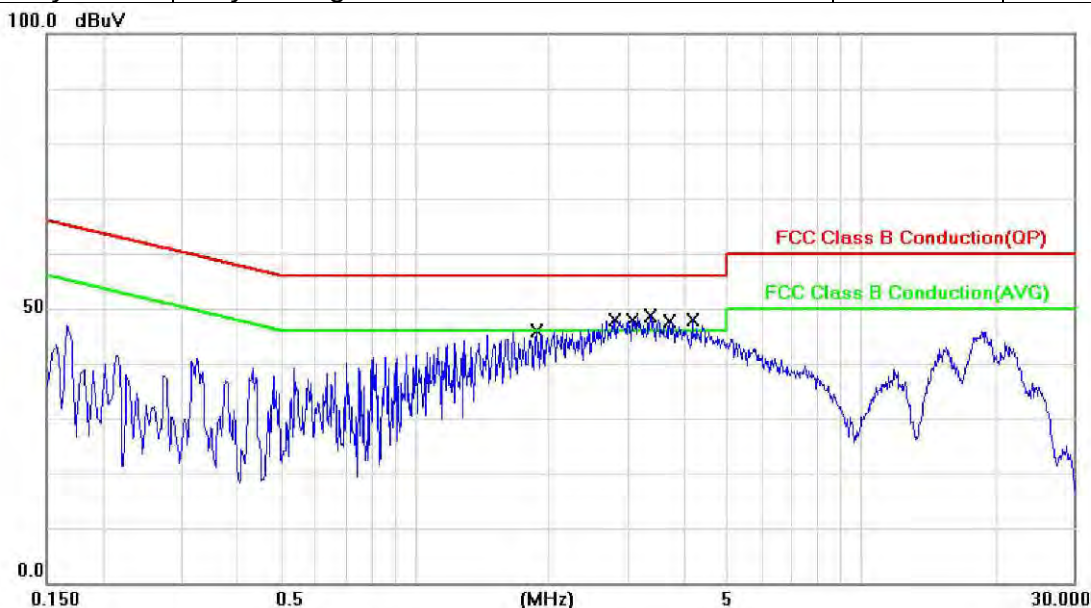
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1638	48.90	0.07	48.97	65.27	-16.30	QP	
2		0.1638	34.80	0.07	34.87	55.27	-20.40	AVG	
3		2.3860	36.80	0.12	36.92	56.00	-19.08	QP	
4		2.3860	27.20	0.12	27.32	46.00	-18.68	AVG	
5		2.8095	39.40	0.13	39.53	56.00	-16.47	QP	
6 *		2.8095	30.20	0.13	30.33	46.00	-15.67	AVG	
7		4.3380	37.20	0.17	37.37	56.00	-18.63	QP	
8		4.3380	28.10	0.17	28.27	46.00	-17.73	AVG	
9		18.7120	42.80	0.55	43.35	60.00	-16.65	QP	
10		18.7120	32.70	0.55	33.25	50.00	-16.75	AVG	
11		21.6880	42.50	0.64	43.14	60.00	-16.86	QP	
12		21.6880	31.40	0.64	32.04	50.00	-17.96	AVG	

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Operation Mode:	Config 2 Recording (Front)	Test Date:	Dec. 30, 2014
Tested By:	Eddy Cheng	Pol.:	N



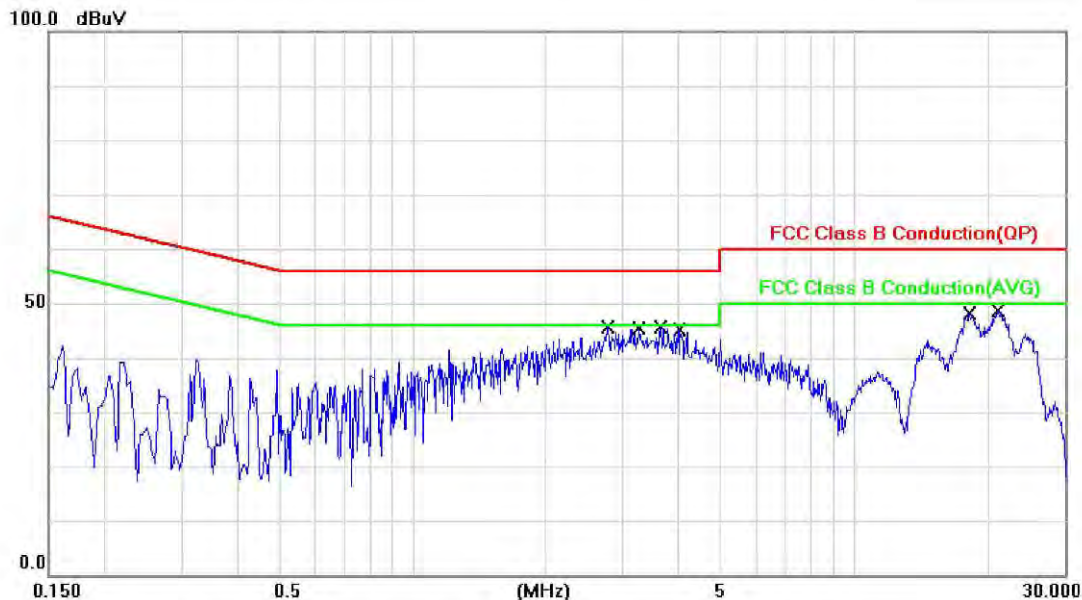
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		1.8700	40.70	0.12	40.82	56.00	-15.18	QP	
2		1.8700	29.60	0.12	29.72	46.00	-16.28	AVG	
3		2.8100	41.60	0.14	41.74	56.00	-14.26	QP	
4		2.8100	31.60	0.14	31.74	46.00	-14.26	AVG	
5		3.0740	42.00	0.15	42.15	56.00	-13.85	QP	
6		3.0740	31.70	0.15	31.85	46.00	-14.15	AVG	
7 *		3.3700	42.30	0.15	42.45	56.00	-13.55	QP	
8		3.3700	31.50	0.15	31.65	46.00	-14.35	AVG	
9		3.7220	41.90	0.16	42.06	56.00	-13.94	QP	
10		3.7220	30.90	0.16	31.06	46.00	-14.94	AVG	
11		4.1900	41.20	0.17	41.37	56.00	-14.63	QP	
12		4.1900	30.00	0.17	30.17	46.00	-15.83	AVG	

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Operation Mode:	Config 2 Recording (Back)	Test Date:	Dec. 30, 2014
Tested By:	Eddy Cheng	Pol.:	L1



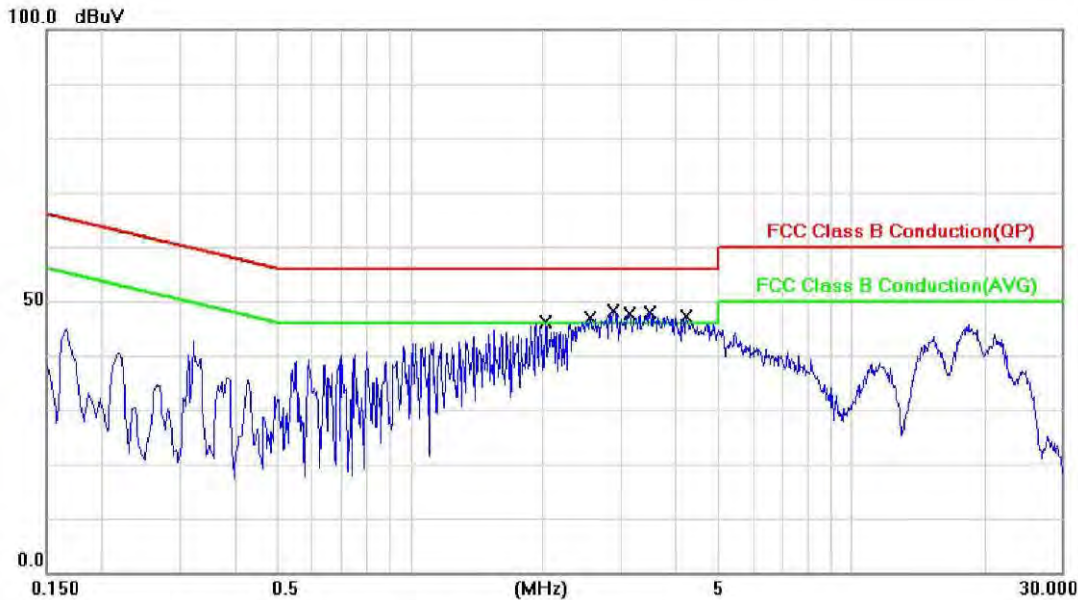
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		2.7660	38.60	0.13	38.73	56.00	-17.27	QP	
2		2.7660	29.50	0.13	29.63	46.00	-16.37	AVG	
3		3.2740	38.90	0.14	39.04	56.00	-16.96	QP	
4	*	3.2740	29.90	0.14	30.04	46.00	-15.96	AVG	
5		3.6940	38.50	0.14	38.64	56.00	-17.36	QP	
6		3.6940	29.40	0.14	29.54	46.00	-16.46	AVG	
7		4.0380	38.10	0.16	38.26	56.00	-17.74	QP	
8		4.0380	28.90	0.16	29.06	46.00	-16.94	AVG	
9		18.2340	41.80	0.54	42.34	60.00	-17.66	QP	
10		18.2340	32.00	0.54	32.54	50.00	-17.46	AVG	
11		21.2500	42.10	0.63	42.73	60.00	-17.27	QP	
12		21.2500	31.20	0.63	31.83	50.00	-18.17	AVG	

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Operation Mode:	Config 2 Recording (Back)	Test Date:	Dec. 30, 2014
Tested By:	Eddy Cheng	Pol.:	N



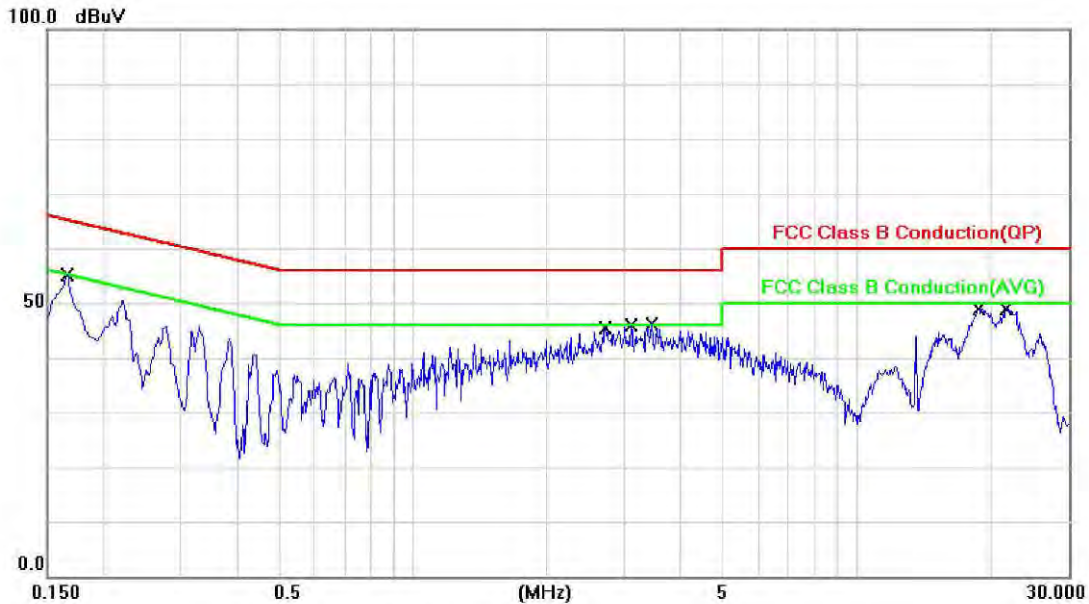
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		2.0260	39.90	0.13	40.03	56.00	-15.97	QP	
2		2.0260	29.10	0.13	29.23	46.00	-16.77	AVG	
3		2.5620	41.10	0.14	41.24	56.00	-14.76	QP	
4		2.5620	30.20	0.14	30.34	46.00	-15.66	AVG	
5 *		2.8940	42.60	0.14	42.74	56.00	-13.26	QP	
6		2.8940	31.90	0.14	32.04	46.00	-13.96	AVG	
7		3.1500	42.20	0.15	42.35	56.00	-13.65	QP	
8		3.1500	31.70	0.15	31.85	46.00	-14.15	AVG	
9		3.4940	41.90	0.15	42.05	56.00	-13.95	QP	
10		3.4940	31.30	0.15	31.45	46.00	-14.55	AVG	
11		4.2380	41.10	0.18	41.28	56.00	-14.72	QP	
12		4.2380	30.10	0.18	30.28	46.00	-15.72	AVG	

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Operation Mode:	Config 2 play recording	Test Date:	Dec. 30, 2014
Tested By:	Eddy Cheng	Pol.:	L1



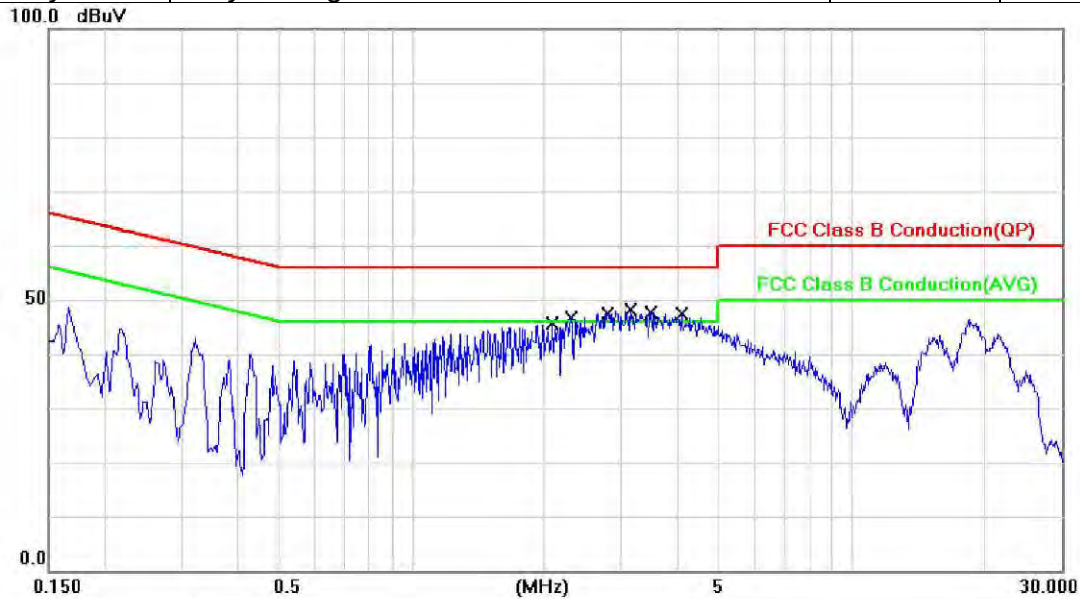
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1647	49.70	0.07	49.77	65.22	-15.45	QP	
2		0.1647	35.60	0.07	35.67	55.22	-19.55	AVG	
3		2.7180	38.40	0.12	38.52	56.00	-17.48	QP	
4		2.7180	29.30	0.12	29.42	46.00	-16.58	AVG	
5		3.1020	39.20	0.13	39.33	56.00	-16.67	QP	
6		3.1020	29.90	0.13	30.03	46.00	-15.97	AVG	
7		3.4380	38.30	0.14	38.44	56.00	-17.56	QP	
8		3.4380	29.50	0.14	29.64	46.00	-16.36	AVG	
9		18.8180	42.60	0.55	43.15	60.00	-16.85	QP	
10		18.8180	32.70	0.55	33.25	50.00	-16.75	AVG	
11		21.6740	42.40	0.64	43.04	60.00	-16.96	QP	
12		21.6740	31.40	0.64	32.04	50.00	-17.96	AVG	

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Operation Mode:	Config 2 play recording	Test Date:	Dec. 30, 2014
Tested By:	Eddy Cheng	Pol.:	N



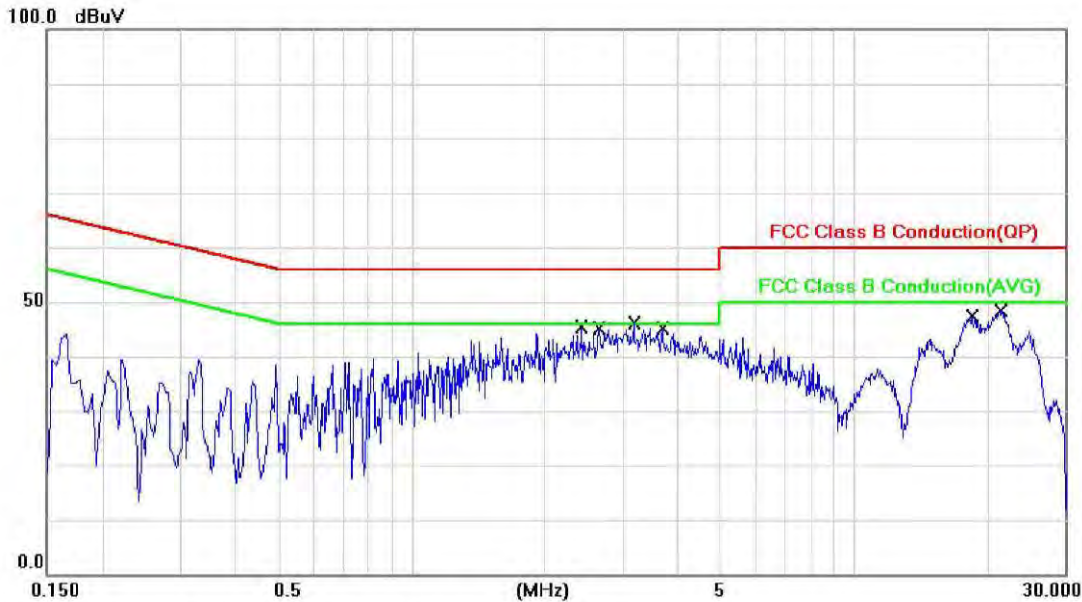
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		2.0900	40.80	0.13	40.93	56.00	-15.07	QP	
2		2.0900	29.90	0.13	30.03	46.00	-15.97	AVG	
3		2.3060	41.30	0.13	41.43	56.00	-14.57	QP	
4		2.3060	30.30	0.13	30.43	46.00	-15.57	AVG	
5 *		2.7900	42.60	0.14	42.74	56.00	-13.26	QP	
6		2.7900	32.10	0.14	32.24	46.00	-13.76	AVG	
7		3.1500	42.20	0.15	42.35	56.00	-13.65	QP	
8		3.1500	31.50	0.15	31.65	46.00	-14.35	AVG	
9		3.5420	42.10	0.15	42.25	56.00	-13.75	QP	
10		3.5420	31.30	0.15	31.45	46.00	-14.55	AVG	
11		4.1060	41.00	0.17	41.17	56.00	-14.83	QP	
12		4.1060	30.10	0.17	30.27	46.00	-15.73	AVG	

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Operation Mode:	Config 2 MP3	Test Date:	Dec. 30, 2014
Tested By:	Eddy Cheng	Pol.:	L1



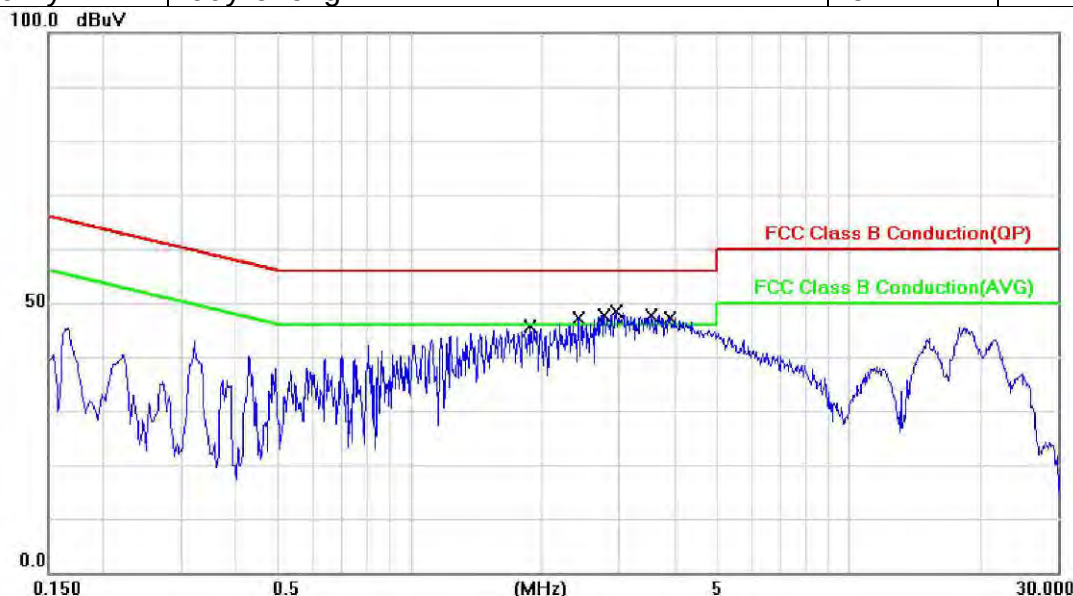
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		2.4300	37.00	0.12	37.12	56.00	-18.88	QP	
2		2.4300	27.30	0.12	27.42	46.00	-18.58	AVG	
3		2.6580	38.30	0.12	38.42	56.00	-17.58	QP	
4		2.6580	29.00	0.12	29.12	46.00	-16.88	AVG	
5		3.1820	39.30	0.13	39.43	56.00	-16.57	QP	
6 *		3.1820	30.10	0.13	30.23	46.00	-15.77	AVG	
7		3.6900	38.40	0.14	38.54	56.00	-17.46	QP	
8		3.6900	29.50	0.14	29.64	46.00	-16.36	AVG	
9		18.4420	41.70	0.54	42.24	60.00	-17.76	QP	
10		18.4420	31.90	0.54	32.44	50.00	-17.56	AVG	
11		21.5100	41.90	0.63	42.53	60.00	-17.47	QP	
12		21.5100	30.90	0.63	31.53	50.00	-18.47	AVG	

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Operation Mode:	Config 2 MP3	Test Date:	Dec. 30, 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		1.8780	41.30	0.12	41.42	56.00	-14.58	QP	
2		1.8780	29.50	0.12	29.62	46.00	-16.38	AVG	
3		2.4100	40.90	0.14	41.04	56.00	-14.96	QP	
4		2.4100	30.20	0.14	30.34	46.00	-15.66	AVG	
5		2.7700	41.90	0.14	42.04	56.00	-13.96	QP	
6		2.7700	31.30	0.14	31.44	46.00	-14.56	AVG	
7 *		2.9580	42.20	0.14	42.34	56.00	-13.66	QP	
8		2.9580	31.90	0.14	32.04	46.00	-13.96	AVG	
9		3.5580	42.00	0.15	42.15	56.00	-13.85	QP	
10		3.5580	31.30	0.15	31.45	46.00	-14.55	AVG	
11		3.9100	41.40	0.16	41.56	56.00	-14.44	QP	
12		3.9100	30.70	0.16	30.86	46.00	-15.14	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, 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. 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. 24, 2014	Dec. 23, 2015
Horn Antenna	SCHWAZBECK	BBHA 9170	BBHA9170184	Dec. 25, 2014	Dec. 24, 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, 2014	Nov. 25, 2015
Coaxial Cable	Huber+Suhner	SUCCOFLEX 102	22962/2	Nov. 26, 2014	Nov. 25, 2015
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. 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 & 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 : 24 degree C

Humidity : 55 %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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2.5.6 Measurement Data

Below 1GHz

Operation Mode:	Config 1 DATA Link (USB)	Test Date:	Dec. 27, 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		60.1780	32.66	-13.08	19.58	40.00	-20.42	QP	
2	*	120.7730	38.49	-14.52	23.97	43.50	-19.53	QP	
3		150.7210	27.17	-12.09	15.08	43.50	-28.42	QP	
4		180.1750	33.83	-14.14	19.69	43.50	-23.81	QP	
5		392.1570	30.94	-9.32	21.62	46.00	-24.38	QP	
6		542.5380	30.29	-6.62	23.67	46.00	-22.33	QP	

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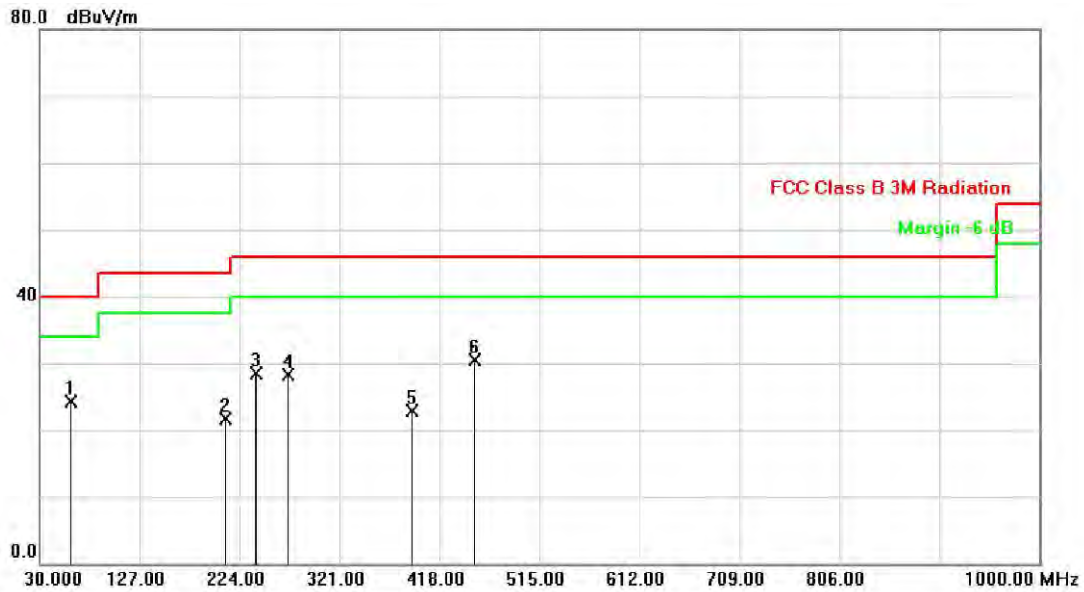
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		60.3250	37.41	-13.11	24.30	40.00	-15.70	QP	
2		210.2730	36.51	-14.74	21.77	43.50	-21.73	QP	
3		240.6620	41.87	-13.32	28.55	46.00	-17.45	QP	
4		271.8120	40.75	-12.49	28.26	46.00	-17.74	QP	
5		392.1180	32.24	-9.32	22.92	46.00	-23.08	QP	
6 *		452.3770	38.04	-7.59	30.45	46.00	-15.55	QP	

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Operation Mode:	Config 2 Recording (Front)	Test Date:	Dec. 27, 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	*	30.1600	44.04	-13.34	30.70	40.00	-9.30	QP	
2		36.5100	42.93	-12.95	29.98	40.00	-10.02	QP	
3		52.6300	29.64	-12.32	17.32	40.00	-22.68	QP	
4		116.8300	34.04	-14.94	19.10	43.50	-24.40	QP	
5		132.1100	31.81	-13.13	18.68	43.50	-24.82	QP	
6		153.3700	27.52	-12.03	15.49	43.50	-28.01	QP	

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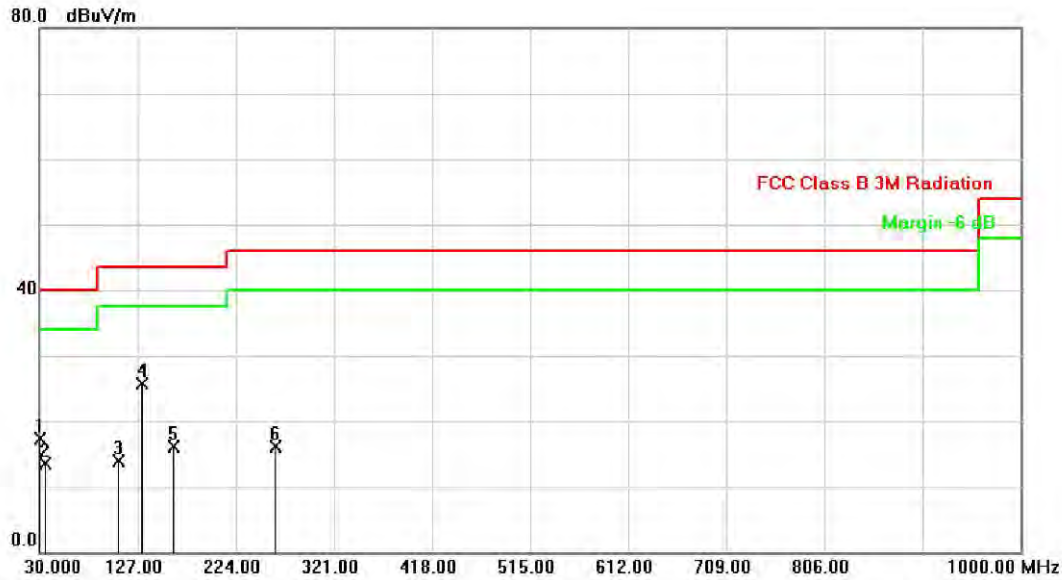
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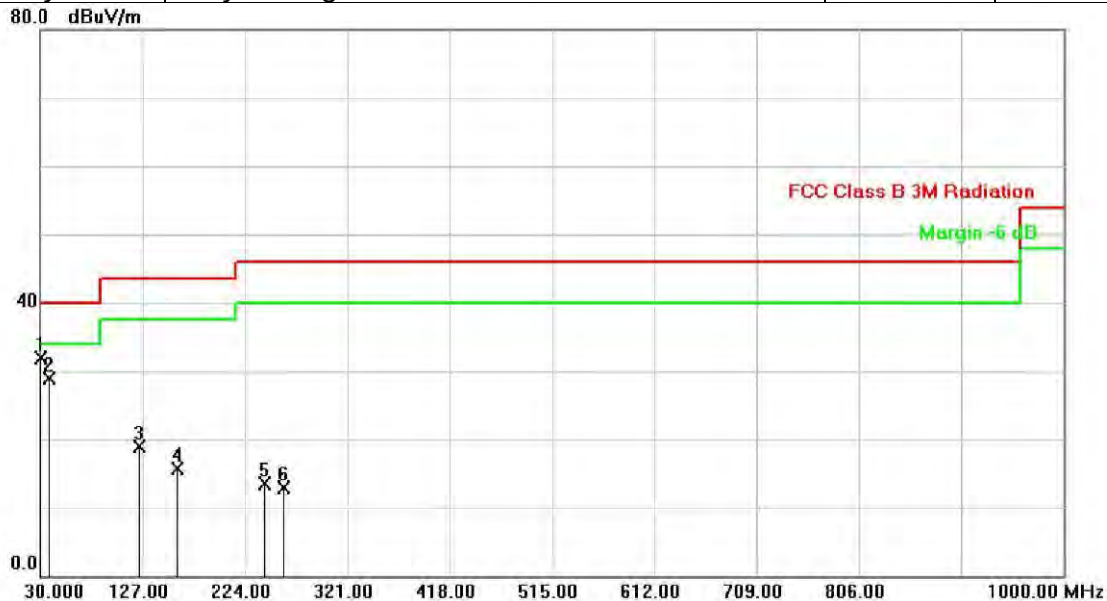
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		30.3300	30.71	-13.34	17.37	40.00	-22.63	QP	
2		36.4200	26.55	-12.96	13.59	40.00	-26.41	QP	
3		108.8900	29.69	-15.83	13.86	43.50	-29.64	QP	
4 *		132.1400	38.79	-13.13	25.66	43.50	-17.84	QP	
5		163.0700	28.19	-12.04	16.15	43.50	-27.35	QP	
6		263.4800	28.95	-12.88	16.07	46.00	-29.93	QP	

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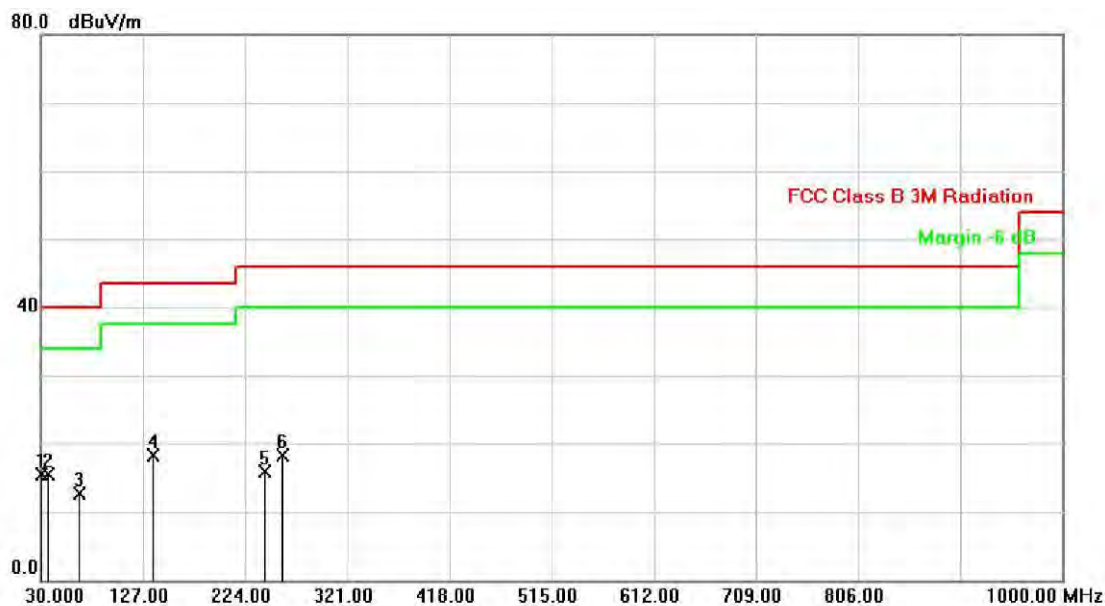
Operation Mode:	Config 2 Recording (Back)	Test Date:	Dec. 27, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1 *		30.0300	45.29	-13.35	31.94	40.00	-8.06	QP	
2		38.1500	41.67	-12.78	28.89	40.00	-11.11	QP	
3		123.4900	33.12	-14.16	18.96	43.50	-24.54	QP	
4		160.2400	27.53	-11.91	15.62	43.50	-27.88	QP	
5		242.8300	26.72	-13.27	13.45	46.00	-32.55	QP	
6		260.2300	25.89	-13.03	12.86	46.00	-33.14	QP	

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		30.1200	28.77	-13.35	15.42	40.00	-24.58	QP	
2	*	36.7650	28.49	-12.92	15.57	40.00	-24.43	QP	
3		66.7850	26.89	-14.26	12.63	40.00	-27.37	QP	
4		136.8000	30.95	-12.72	18.23	43.50	-25.27	QP	
5		242.7250	29.08	-13.27	15.81	46.00	-30.19	QP	
6		259.8900	31.37	-13.04	18.33	46.00	-27.67	QP	

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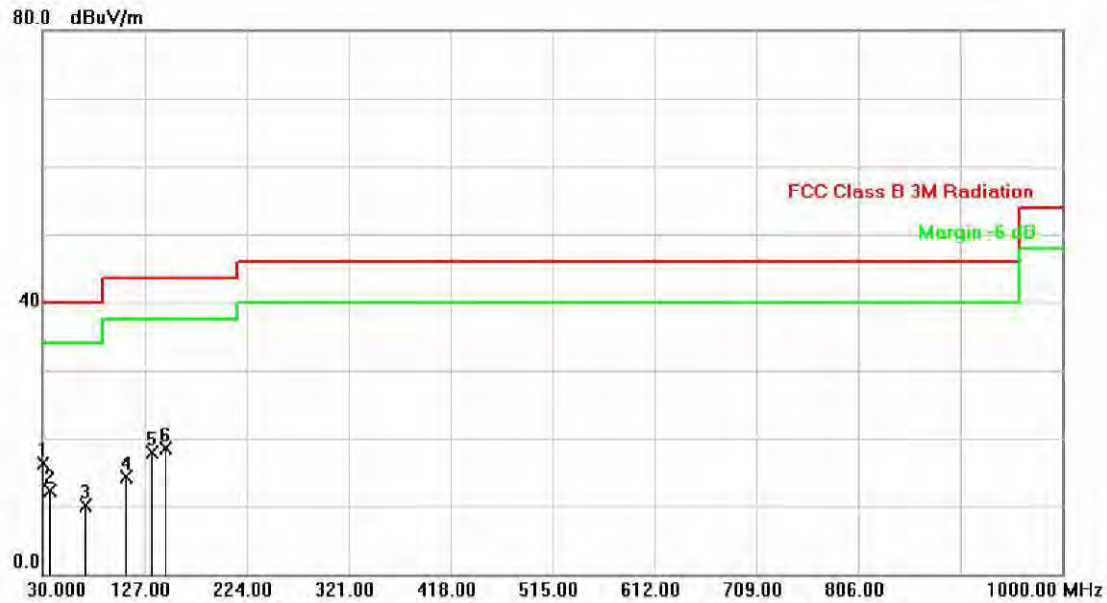
Operation Mode:	Config 2 play recording	Test Date:	Dec. 27, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	30.2700	43.99	-13.34	30.65	40.00	-9.35	QP	
2		37.3900	40.28	-12.86	27.42	40.00	-12.58	QP	
3		124.3400	33.85	-14.05	19.80	43.50	-23.70	QP	
4		160.1200	27.98	-11.89	16.09	43.50	-27.41	QP	
5		245.7700	24.09	-13.17	10.92	46.00	-35.08	QP	
6		279.5900	25.13	-12.15	12.98	46.00	-33.02	QP	

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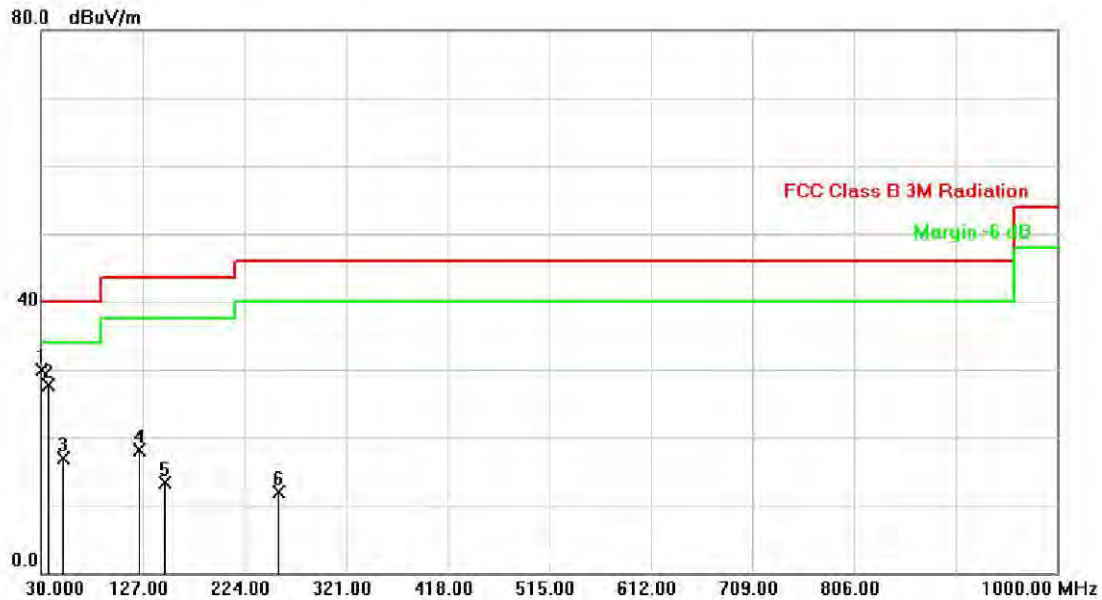
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *		30.4100	29.55	-13.33	16.22	40.00	-23.78	QP	
2		37.1500	25.22	-12.88	12.34	40.00	-27.66	QP	
3		70.4500	25.02	-14.91	10.11	40.00	-29.89	QP	
4		109.8300	29.88	-15.67	14.21	43.50	-29.29	QP	
5		133.5200	30.96	-13.01	17.95	43.50	-25.55	QP	
6		146.8900	30.67	-12.20	18.47	43.50	-25.03	QP	

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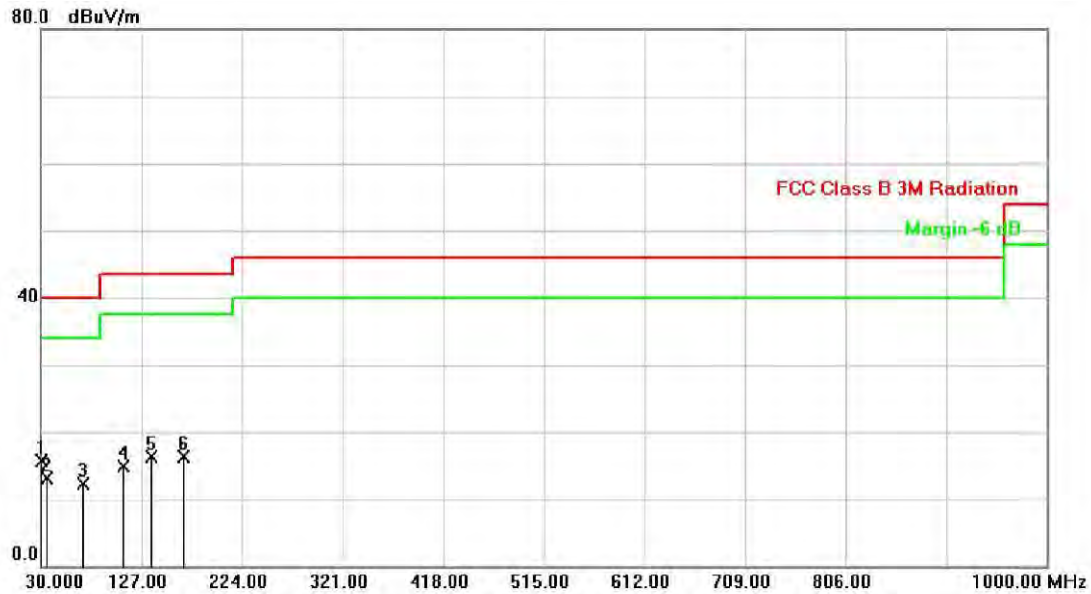
Operation Mode:	Config 2 MP3	Test Date:	Dec. 27, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	30.2300	43.21	-13.34	29.87	40.00	-10.13	QP	
2		37.6600	40.48	-12.82	27.66	40.00	-12.34	QP	
3		51.8700	29.07	-12.24	16.83	40.00	-23.17	QP	
4		123.3900	32.19	-14.17	18.02	43.50	-25.48	QP	
5		148.7200	25.52	-12.14	13.38	43.50	-30.12	QP	
6		256.4700	24.91	-13.05	11.86	46.00	-34.14	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	*	30.3500	28.98	-13.34	15.64	40.00	-24.36	QP	
2		36.3200	26.16	-12.97	13.19	40.00	-26.81	QP	
3		70.2700	27.15	-14.88	12.27	40.00	-27.73	QP	
4		109.9500	30.63	-15.65	14.98	43.50	-28.52	QP	
5		137.1200	29.01	-12.69	16.32	43.50	-27.18	QP	
6		167.9900	28.66	-12.28	16.38	43.50	-27.12	QP	

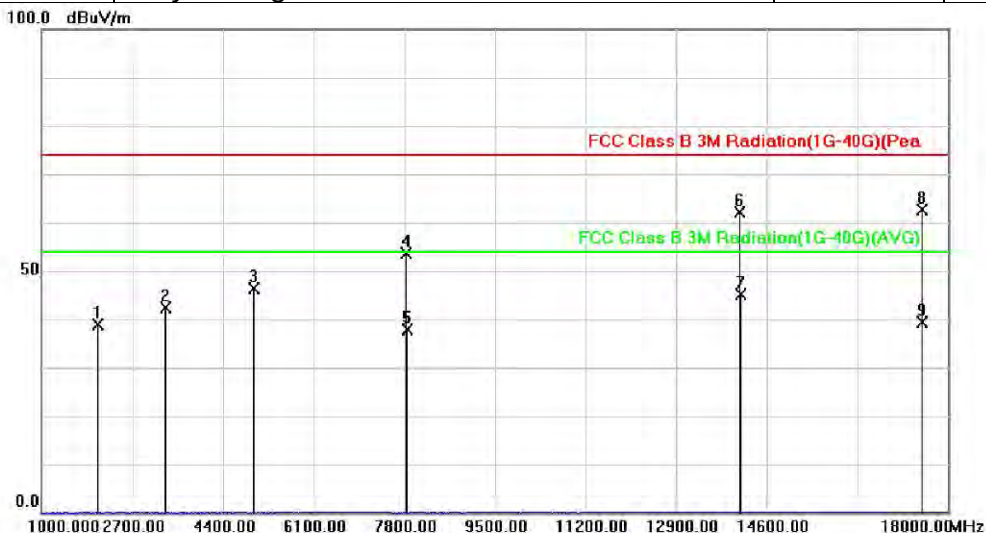
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Above 1 - 18 GHz

Operation Mode:	Config 1 DATA Link (USB)	Test Date:	Jan. 06, 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		2054.000	54.80	-15.95	38.85	74.00	-35.15	peak	
2		3329.000	54.64	-12.30	42.34	74.00	-31.66	peak	
3		4978.000	55.36	-8.98	46.38	74.00	-27.62	peak	
4		7834.000	54.67	-1.01	53.66	74.00	-20.34	peak	
5		7848.000	38.91	-0.99	37.92	54.00	-16.08	AVG	
6		14090.000	5.31	56.82	62.13	74.00	-11.87	peak	
7 *		14106.000	-11.83	56.84	45.01	54.00	-8.99	AVG	
8		17507.000	3.76	58.93	62.69	74.00	-11.31	peak	
9		17522.000	-19.55	59.04	39.49	54.00	-14.51	AVG	

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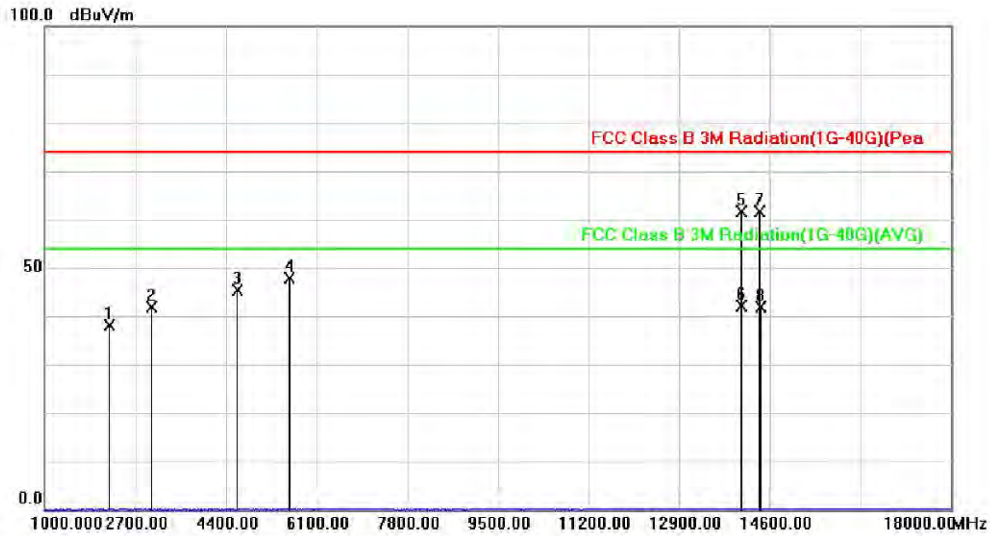
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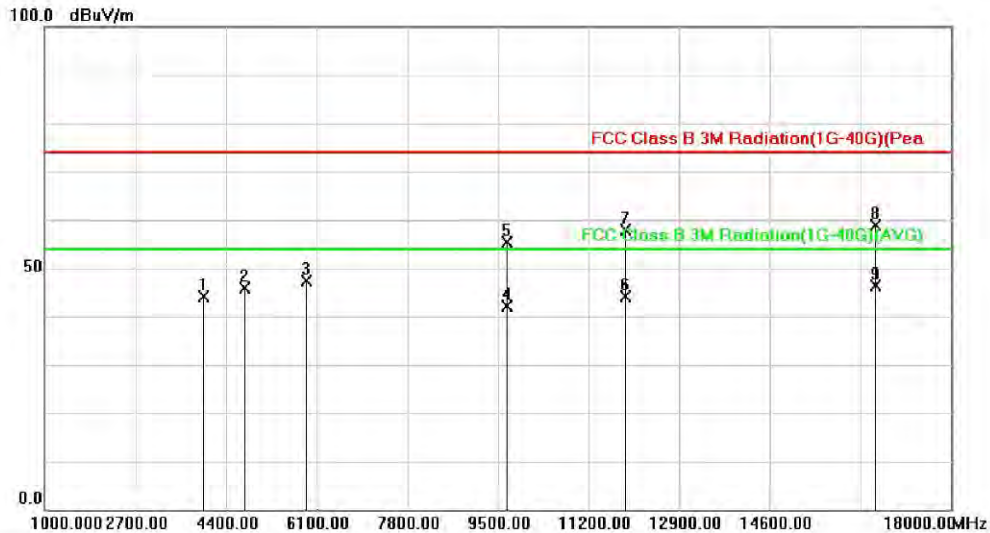
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2207.000	53.80	-15.73	38.07	74.00	-35.93	peak	
2		3006.000	54.89	-13.03	41.86	74.00	-32.14	peak	
3		4621.000	55.11	-9.82	45.29	74.00	-28.71	peak	
4		5590.000	55.91	-8.06	47.85	74.00	-26.15	peak	
5		14056.000	4.81	56.77	61.58	74.00	-12.42	peak	
6 *		14069.000	-14.58	56.79	42.21	54.00	-11.79	AVG	
7		14413.000	4.24	57.27	61.51	74.00	-12.49	peak	
8		14427.000	-15.53	57.29	41.76	54.00	-12.24	AVG	

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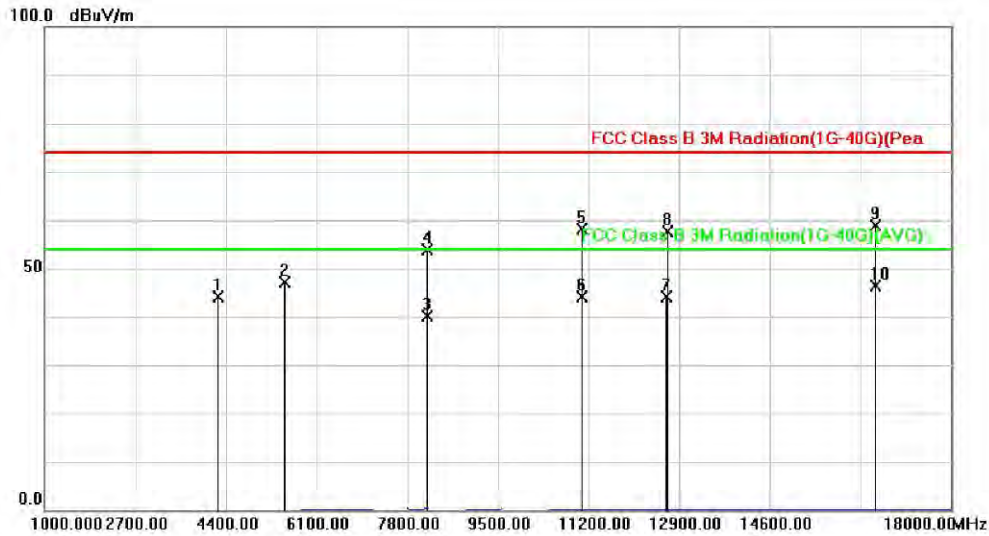
Operation Mode:	Config 2 Recording (Front)	Test Date:	Jan. 06, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		3975.000	55.34	-11.29	44.05	74.00	-29.95	peak	
2		4757.000	55.28	-9.50	45.78	74.00	-28.22	peak	
3		5913.000	54.75	-7.28	47.47	74.00	-26.53	peak	
4		9665.300	39.88	2.28	42.16	54.00	-11.84	AVG	
5		9670.000	53.10	2.28	55.38	74.00	-18.62	peak	
6		11892.300	-8.92	53.05	44.13	54.00	-9.87	AVG	
7		11897.000	4.75	53.05	57.80	74.00	-16.20	peak	
8		16589.000	3.13	55.72	58.85	74.00	-15.15	peak	
9 *		16594.190	-9.29	55.73	46.44	54.00	-7.56	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		4247.000	54.75	-10.67	44.08	74.00	-29.92	peak	
2		5505.000	55.50	-8.25	47.25	74.00	-26.75	peak	
3		8170.860	40.67	-0.50	40.17	54.00	-13.83	AVG	
4		8174.000	54.25	-0.49	53.76	74.00	-20.24	peak	
5		11064.000	53.71	4.30	58.01	74.00	-15.99	peak	
6		11068.550	39.71	4.31	44.02	54.00	-9.98	AVG	
7		12669.010	-8.71	52.96	44.25	54.00	-9.75	AVG	
8		12679.000	4.56	52.98	57.54	74.00	-16.46	peak	
9		16589.000	3.13	55.72	58.85	74.00	-15.15	peak	
10 *		16594.190	-9.29	55.73	46.44	54.00	-7.56	AVG	

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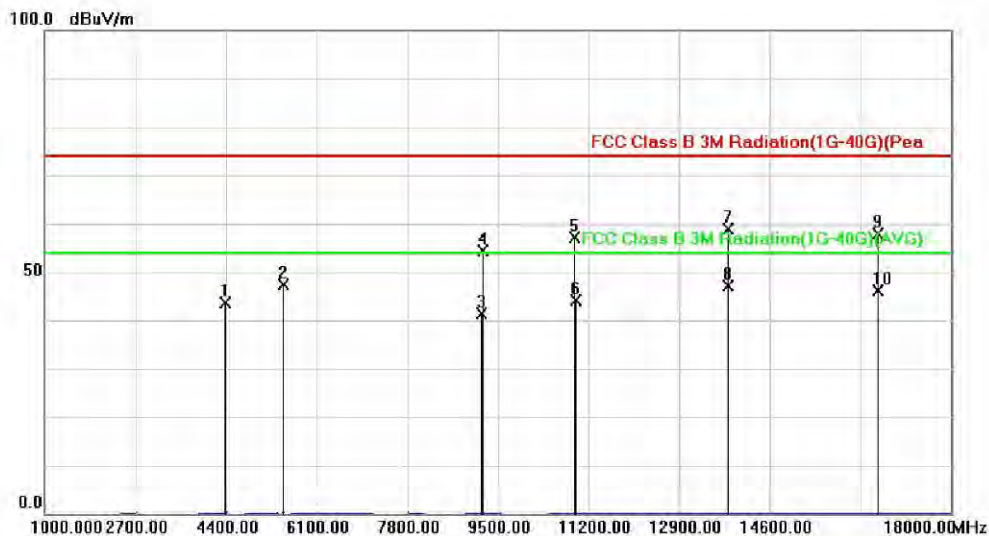
Operation Mode:	Config 2 Recording (Back)	Test Date:	Jan. 06, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		4859.000	55.07	-9.25	45.82	74.00	-28.18	peak	
2		5692.000	55.55	-7.83	47.72	74.00	-26.28	peak	
3		7273.000	54.68	-2.24	52.44	74.00	-21.56	peak	
4		7278.590	41.51	-2.23	39.28	54.00	-14.72	AVG	
5		10703.940	40.07	4.05	44.12	54.00	-9.88	AVG	
6		10707.000	52.97	4.06	57.03	74.00	-16.97	peak	
7		13240.000	3.70	54.20	57.90	74.00	-16.10	peak	
8		13242.470	-8.45	54.21	45.76	54.00	-8.24	AVG	
9		16572.000	3.47	55.70	59.17	74.00	-14.83	peak	
10	*	16578.070	-9.45	55.71	46.26	54.00	-7.74	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		4400.000	54.07	-10.33	43.74	74.00	-30.26	peak	
2		5488.000	55.59	-8.29	47.30	74.00	-26.70	peak	
3		9202.300	40.19	1.21	41.40	54.00	-12.60	AVG	
4		9211.000	53.06	1.23	54.29	74.00	-19.71	peak	
5		10945.000	52.80	4.23	57.03	74.00	-16.97	peak	
6		10953.050	39.85	4.23	44.08	54.00	-9.92	AVG	
7		13818.000	2.75	56.05	58.80	74.00	-15.20	peak	
8 *		13827.990	-9.00	56.10	47.10	54.00	-6.90	AVG	
9		16623.000	2.07	55.78	57.85	74.00	-16.15	peak	
10		16628.390	-9.62	55.78	46.16	54.00	-7.84	AVG	

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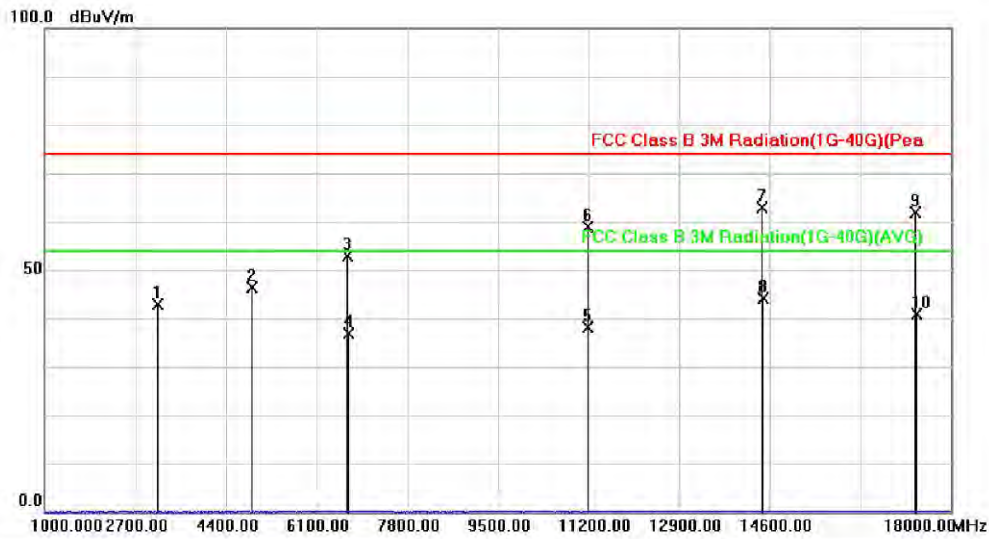
Operation Mode:	Config 2 play recording	Test Date:	Jan. 06, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		1374.000	55.68	-15.32	40.36	74.00	-33.64	peak	
2		3057.000	55.17	-12.91	42.26	74.00	-31.74	peak	
3		7630.000	54.97	-1.19	53.78	74.00	-20.22	peak	
4		7648.000	36.21	-1.17	35.04	54.00	-18.96	AVG	
5		11242.000	-12.68	52.90	40.22	54.00	-13.78	AVG	
6		11251.000	6.14	52.92	59.06	74.00	-14.94	peak	
7		13852.000	5.17	56.17	61.34	74.00	-12.66	peak	
8		13861.000	-10.99	56.21	45.22	54.00	-8.78	AVG	
9		17405.000	4.10	58.41	62.51	74.00	-11.49	peak	
10	*	17419.000	-11.11	58.49	47.38	54.00	-6.62	AVG	

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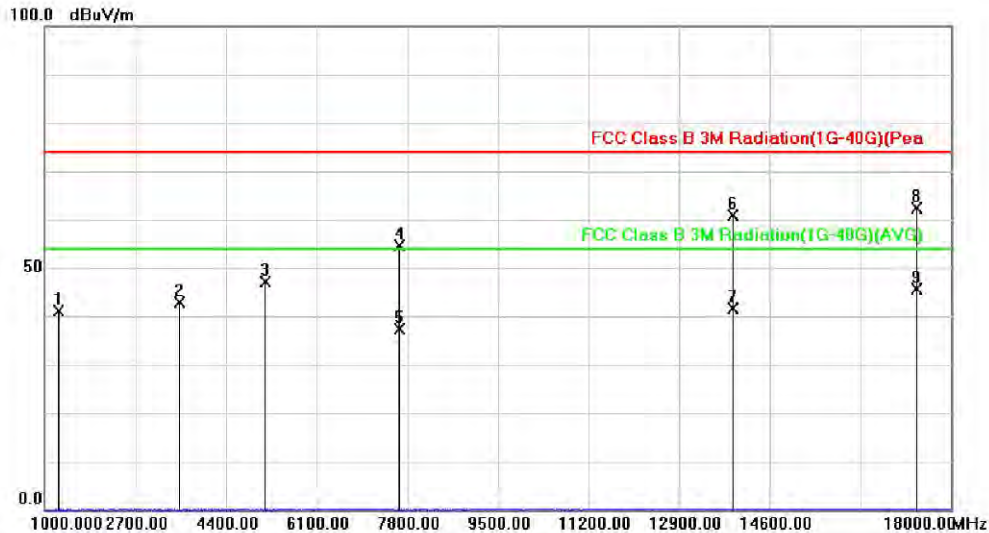
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		3125.000	55.68	-12.76	42.92	74.00	-31.08	peak	
2		4893.000	55.61	-9.18	46.43	74.00	-27.57	peak	
3		6678.000	57.19	-4.41	52.78	74.00	-21.22	peak	
4		6691.000	41.28	-4.36	36.92	54.00	-17.08	AVG	
5		11188.000	-14.66	52.85	38.19	54.00	-15.81	AVG	
6		11200.000	5.91	52.87	58.78	74.00	-15.22	peak	
7		14464.000	5.59	57.35	62.94	74.00	-11.06	peak	
8 *		14471.000	-13.27	57.35	44.08	54.00	-9.92	AVG	
9		17337.000	3.78	58.08	61.86	74.00	-12.14	peak	
10		17345.000	-17.30	58.12	40.82	54.00	-13.18	AVG	

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Operation Mode:	Config 2 MP3	Test Date:	Jan. 06, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



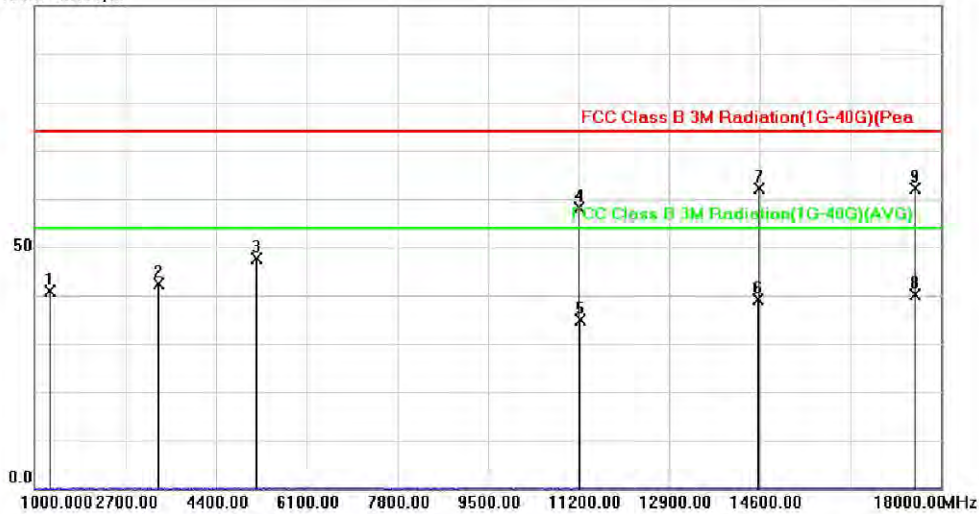
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1255.000	56.68	-15.67	41.01	74.00	-32.99	peak	
2		3516.000	54.66	-11.90	42.76	74.00	-31.24	peak	
3		5131.000	55.81	-8.76	47.05	74.00	-26.95	peak	
4		7647.000	55.77	-1.17	54.60	74.00	-19.40	peak	
5		7658.000	38.59	-1.16	37.43	54.00	-16.57	AVG	
6		13903.000	4.43	56.36	60.79	74.00	-13.21	peak	
7		13916.000	-14.64	56.39	41.75	54.00	-12.25	AVG	
8		17358.000	4.23	58.18	62.41	74.00	-11.59	peak	
9 *		17358.000	-12.49	58.18	45.69	54.00	-8.31	AVG	

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100.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1289.000	56.02	-15.05	40.97	74.00	-33.03	peak	
2		3312.000	54.73	-12.33	42.40	74.00	-31.60	peak	
3		5165.000	56.26	-8.69	47.57	74.00	-26.43	peak	
4		11217.000	5.20	52.88	58.08	74.00	-15.92	peak	
5		11233.000	-18.04	52.91	34.87	54.00	-19.13	AVG	
6		14574.000	-18.10	57.13	39.03	54.00	-14.97	AVG	
7		14583.000	5.06	57.09	62.15	74.00	-11.85	peak	
8		17516.000	-18.77	59.00	40.23	54.00	-13.77	AVG	
9 *		17524.000	3.12	59.05	62.17	74.00	-11.83	peak	

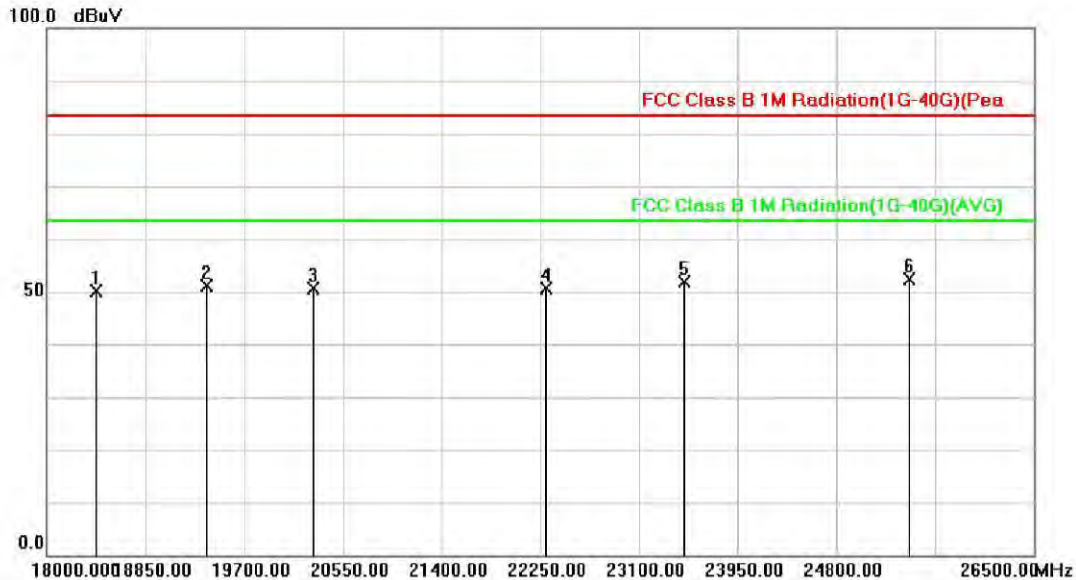
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Above 18 – 26.5 GHz

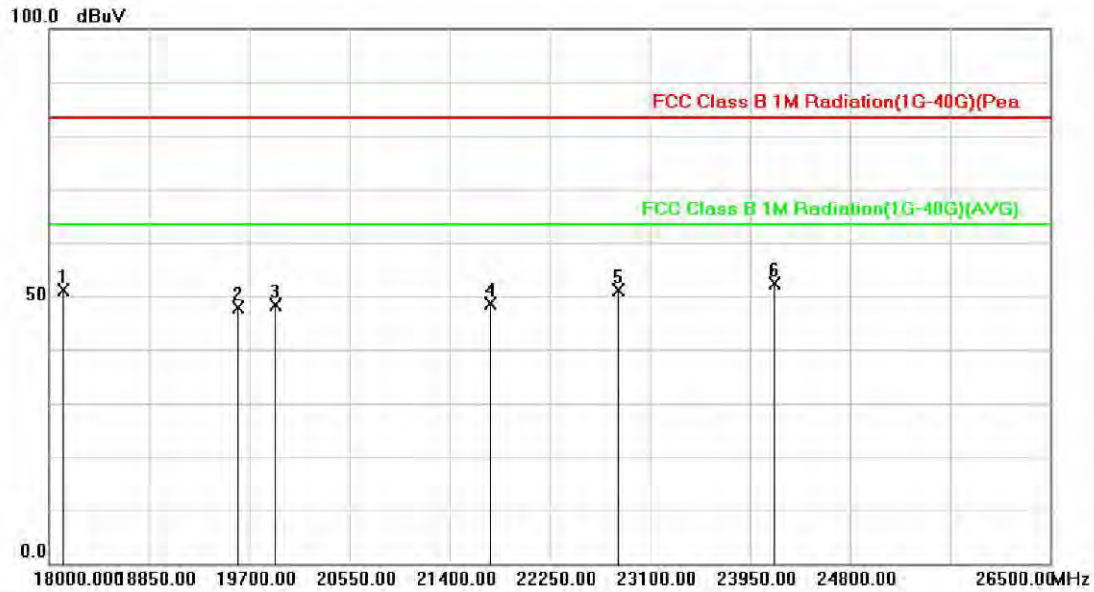
Operation Mode:	Config 1 DATA Link (USB)	Test Date:	Jan. 06, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		18425.000	62.62	-12.55	50.07	83.50	-33.43	peak	
2		19377.000	62.57	-11.38	51.19	83.50	-32.31	peak	
3		20295.000	63.05	-12.49	50.56	83.50	-32.94	peak	
4		22301.000	62.04	-11.29	50.75	83.50	-32.75	peak	
5		23491.000	62.38	-10.44	51.94	83.50	-31.56	peak	
6 *		25429.000	59.98	-7.70	52.28	83.50	-31.22	peak	

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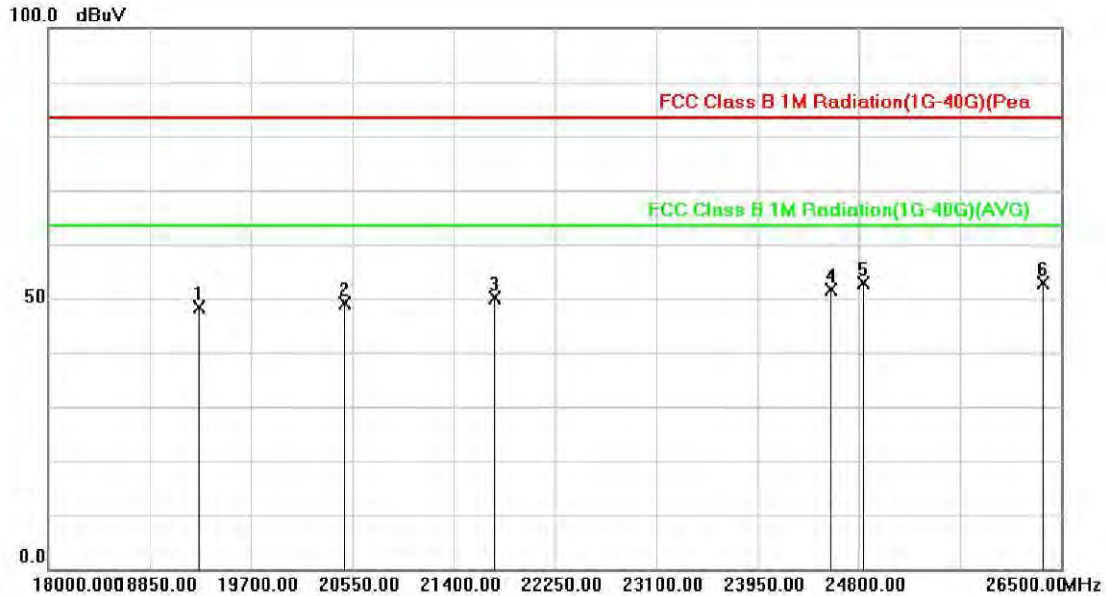
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		18119.000	64.10	-13.01	51.09	83.50	-32.41	peak	
2		19598.000	59.45	-11.59	47.86	83.50	-35.64	peak	
3		19921.000	61.13	-12.74	48.39	83.50	-35.11	peak	
4		21740.000	59.87	-11.34	48.53	83.50	-34.97	peak	
5		22828.000	62.12	-10.98	51.14	83.50	-32.36	peak	
6 *		24154.000	63.11	-10.80	52.31	83.50	-31.19	peak	

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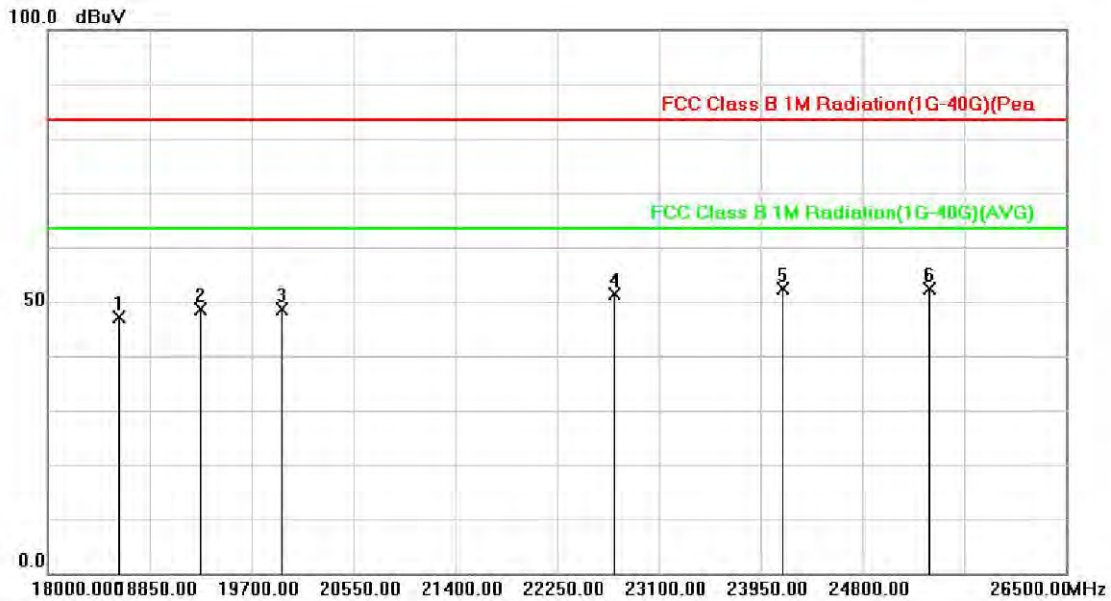
Operation Mode:	Config 2 Recording (Front)	Test Date:	Jan. 06, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		19258.000	59.96	-11.50	48.46	83.50	-35.04	peak	
2		20482.000	61.22	-12.15	49.07	83.50	-34.43	peak	
3		21740.000	61.42	-11.34	50.08	83.50	-33.42	peak	
4		24562.000	61.48	-9.87	51.61	83.50	-31.89	peak	
5		24834.000	62.53	-9.65	52.88	83.50	-30.62	peak	
6	*	26347.000	62.22	-9.31	52.91	83.50	-30.59	peak	

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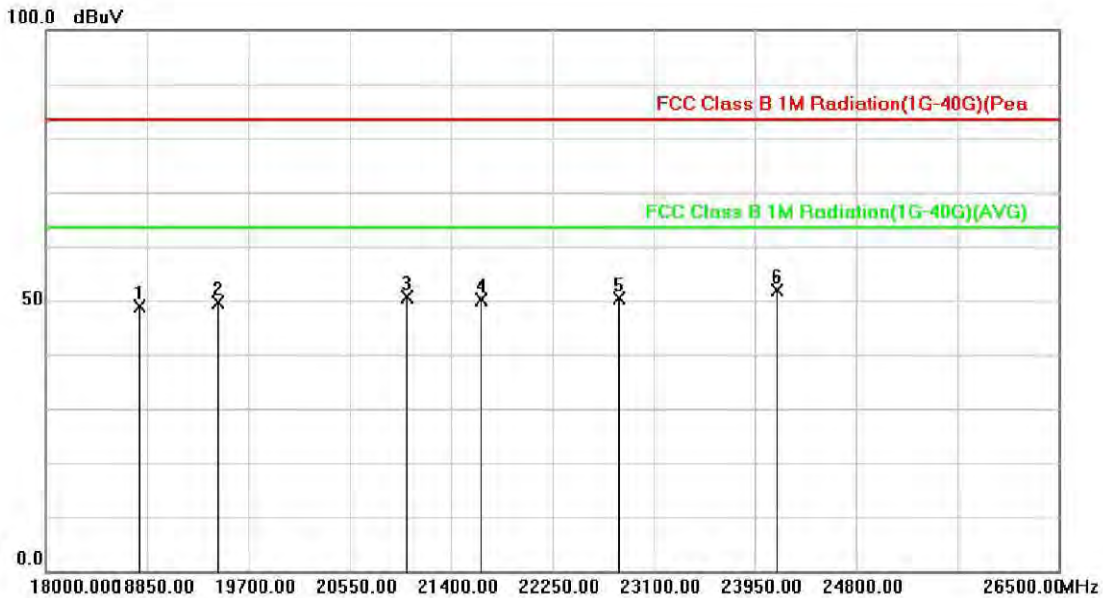
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		18595.000	59.42	-12.31	47.11	83.50	-36.39	peak	
2		19275.000	60.05	-11.48	48.57	83.50	-34.93	peak	
3		19955.000	61.57	-12.85	48.72	83.50	-34.78	peak	
4		22726.000	62.38	-11.09	51.29	83.50	-32.21	peak	
5		24137.000	63.23	-10.85	52.38	83.50	-31.12	peak	
6 *		25361.000	60.38	-7.98	52.40	83.50	-31.10	peak	

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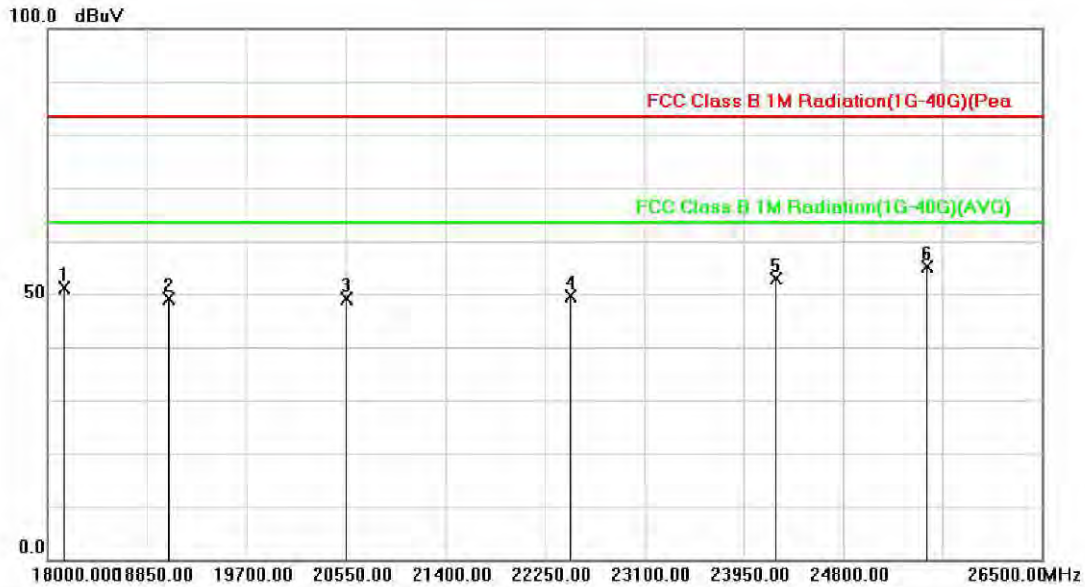
Operation Mode:	Config 2 Recording (Back)	Test Date:	Jan. 06, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		18782.000	61.01	-12.07	48.94	83.50	-34.56	peak	
2		19445.000	61.02	-11.30	49.72	83.50	-33.78	peak	
3		21026.000	62.46	-11.71	50.75	83.50	-32.75	peak	
4		21655.000	61.48	-11.38	50.10	83.50	-33.40	peak	
5		22811.000	61.46	-11.00	50.46	83.50	-33.04	peak	
6 *		24137.000	62.66	-10.85	51.81	83.50	-31.69	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		18136.000	64.07	-12.98	51.09	83.50	-32.41	peak	
2		19037.000	60.89	-11.74	49.15	83.50	-34.35	peak	
3		20550.000	61.20	-12.08	49.12	83.50	-34.38	peak	
4		22471.000	60.86	-11.32	49.54	83.50	-33.96	peak	
5		24222.000	63.61	-10.63	52.98	83.50	-30.52	peak	
6 *		25514.000	62.45	-7.42	55.03	83.50	-28.47	peak	

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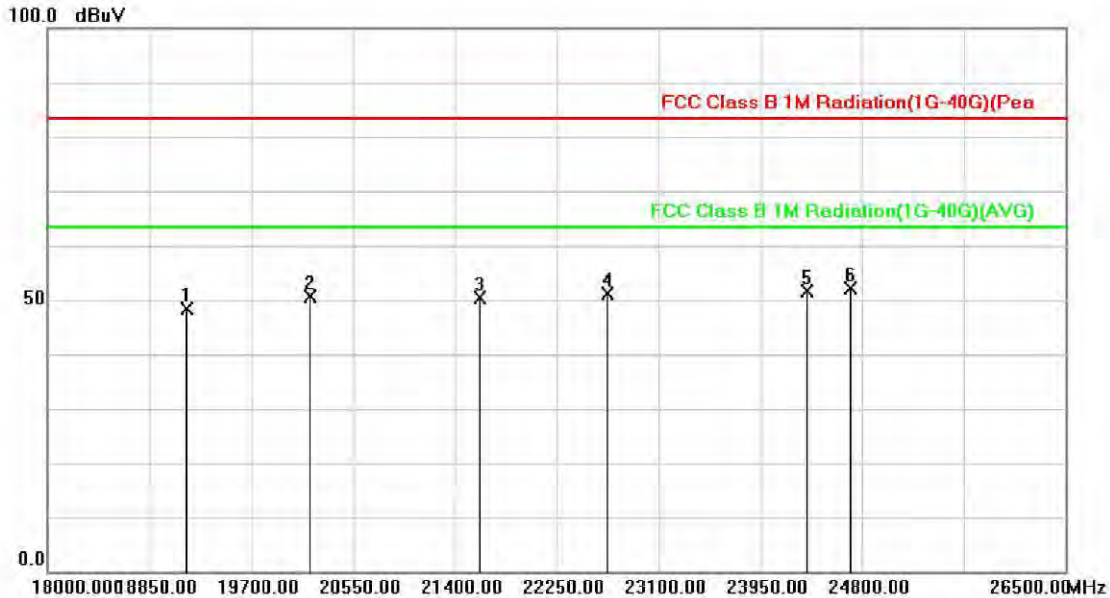
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Operation Mode:	Config 2 play recording	Test Date:	Jan. 06, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		19156.000	59.96	-11.61	48.35	83.50	-35.15	peak	
2		20193.000	63.34	-12.67	50.67	83.50	-32.83	peak	
3		21604.000	61.66	-11.40	50.26	83.50	-33.24	peak	
4		22675.000	62.33	-11.14	51.19	83.50	-32.31	peak	
5		24341.000	62.04	-10.33	51.71	83.50	-31.79	peak	
6 *		24698.000	61.90	-9.76	52.14	83.50	-31.36	peak	

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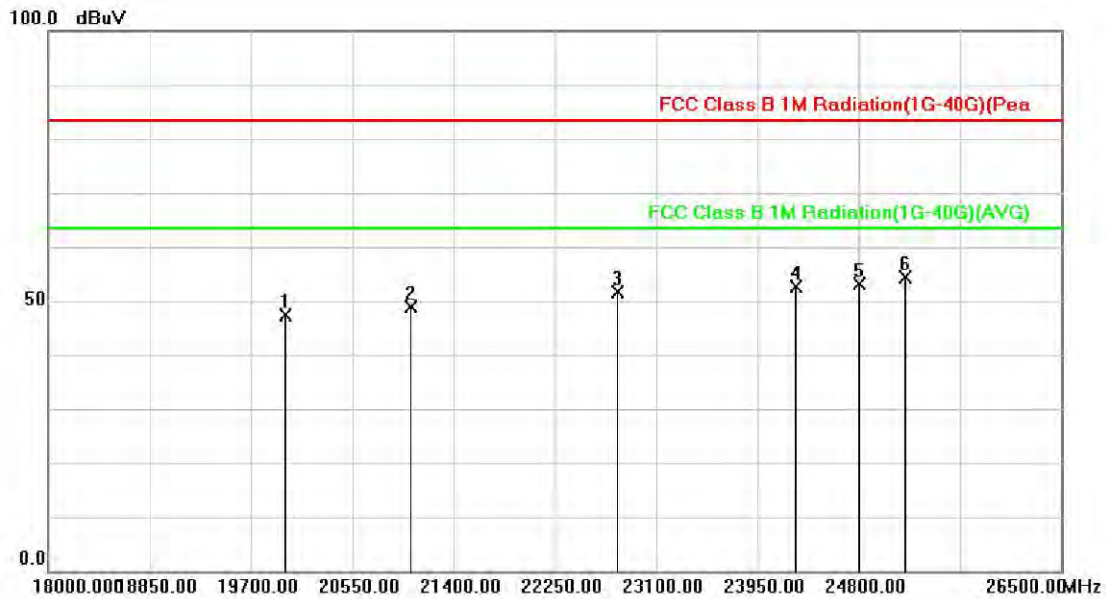
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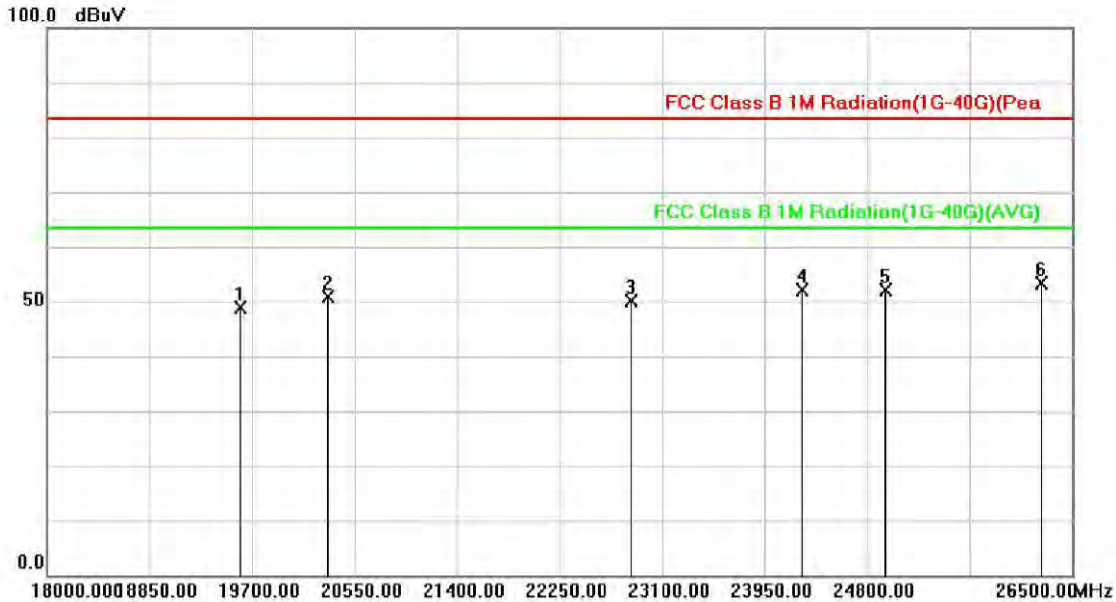
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		19989.000	60.35	-12.97	47.38	83.50	-36.12	peak	
2		21043.000	60.66	-11.70	48.96	83.50	-34.54	peak	
3		22777.000	62.56	-11.04	51.52	83.50	-31.98	peak	
4		24273.000	63.04	-10.50	52.54	83.50	-30.96	peak	
5		24800.000	62.87	-9.68	53.19	83.50	-30.31	peak	
6 *		25191.000	63.20	-8.71	54.49	83.50	-29.01	peak	

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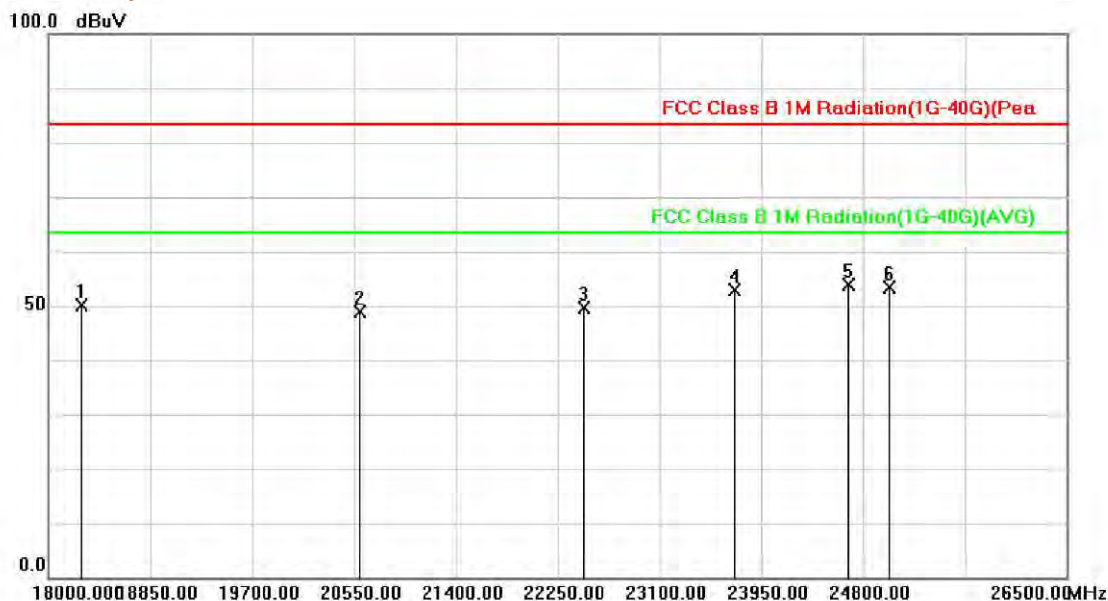
Operation Mode:	Config 2 MP3	Test Date:	Jan. 06, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		19598.000	60.58	-11.59	48.99	83.50	-34.51	peak	
2		20329.000	63.39	-12.43	50.96	83.50	-32.54	peak	
3		22845.000	61.14	-10.96	50.18	83.50	-33.32	peak	
4		24256.000	62.77	-10.55	52.22	83.50	-31.28	peak	
5		24953.000	61.58	-9.56	52.02	83.50	-31.48	peak	
6 *		26245.000	62.61	-9.14	53.47	83.50	-30.03	peak	

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		18272.000	62.84	-12.78	50.06	83.50	-33.44	peak	
2		20601.000	60.93	-12.04	48.89	83.50	-34.61	peak	
3		22471.000	60.86	-11.32	49.54	83.50	-33.96	peak	
4		23729.000	63.69	-10.78	52.91	83.50	-30.59	peak	
5 *		24681.000	63.56	-9.78	53.78	83.50	-29.72	peak	
6		25021.000	62.74	-9.43	53.31	83.50	-30.19	peak	

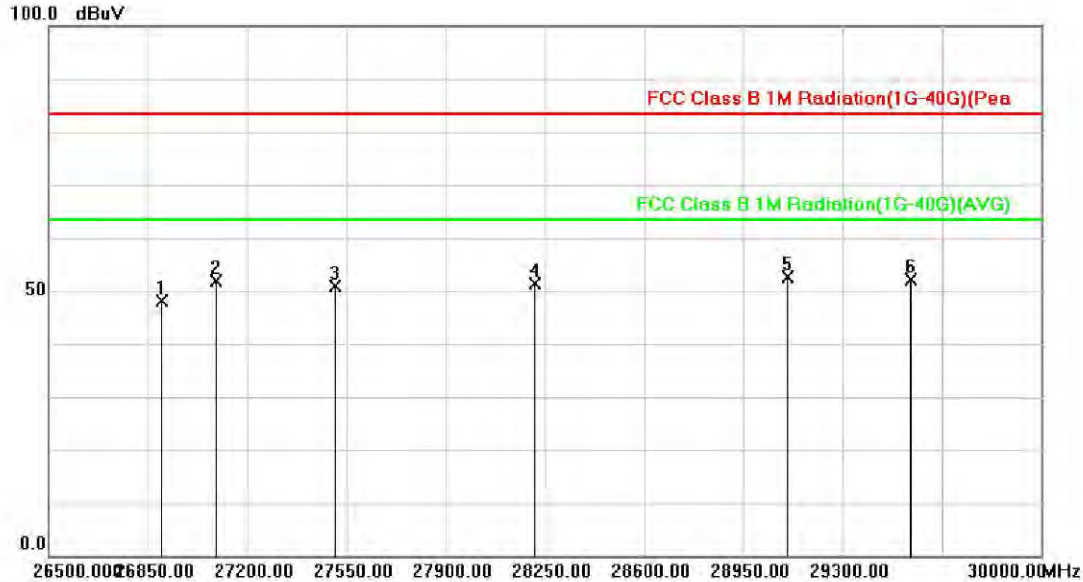
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Above 26.5 – 30 GHz

Operation Mode:	Config 1 DATA Link (USB)	Test Date:	Jan. 06, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		26899.000	58.23	-10.01	48.22	83.50	-35.28	peak	
2		27088.000	62.08	-10.26	51.82	83.50	-31.68	peak	
3		27508.000	61.63	-10.87	50.76	83.50	-32.74	peak	
4		28215.000	62.19	-10.87	51.32	83.50	-32.18	peak	
5 *		29104.000	64.90	-12.25	52.65	83.50	-30.85	peak	
6		29538.000	64.43	-12.27	52.16	83.50	-31.34	peak	

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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

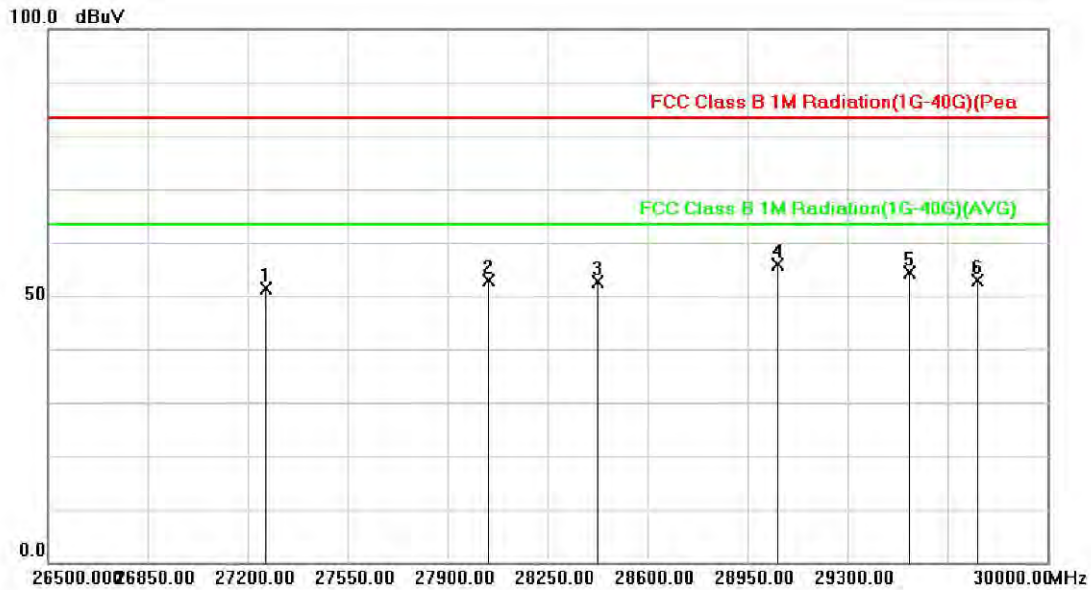
台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

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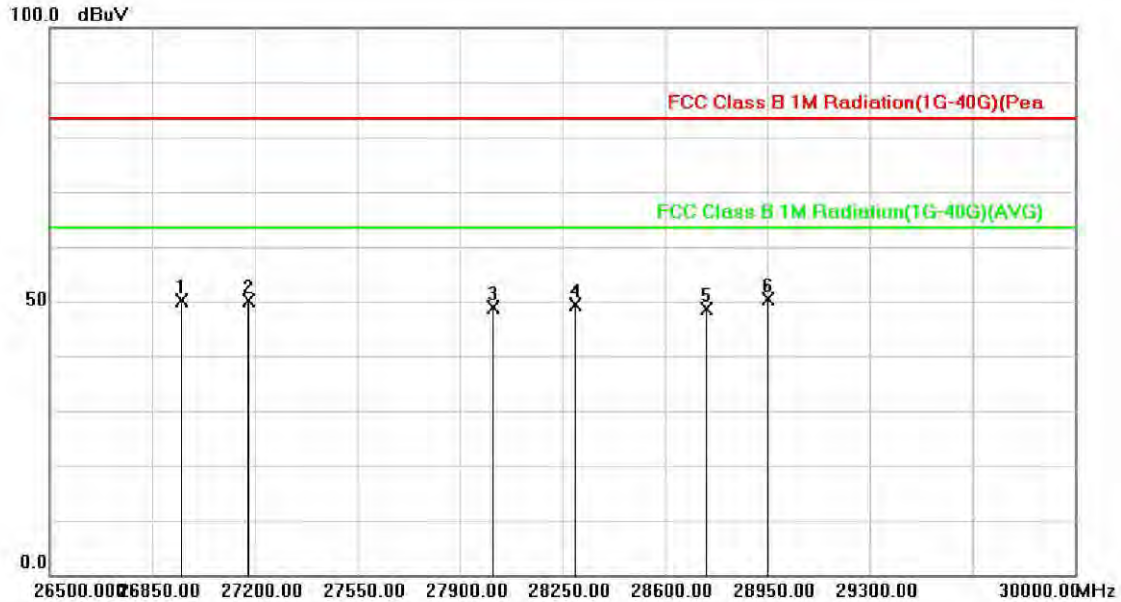
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		27263.000	62.00	-10.51	51.49	83.50	-32.01	peak	
2		28040.000	63.98	-11.21	52.77	83.50	-30.73	peak	
3		28425.000	63.07	-10.46	52.61	83.50	-30.89	peak	
4	*	29055.000	68.01	-12.25	55.76	83.50	-27.74	peak	
5		29517.000	66.69	-12.27	54.42	83.50	-29.08	peak	
6		29755.000	65.21	-12.27	52.94	83.50	-30.56	peak	

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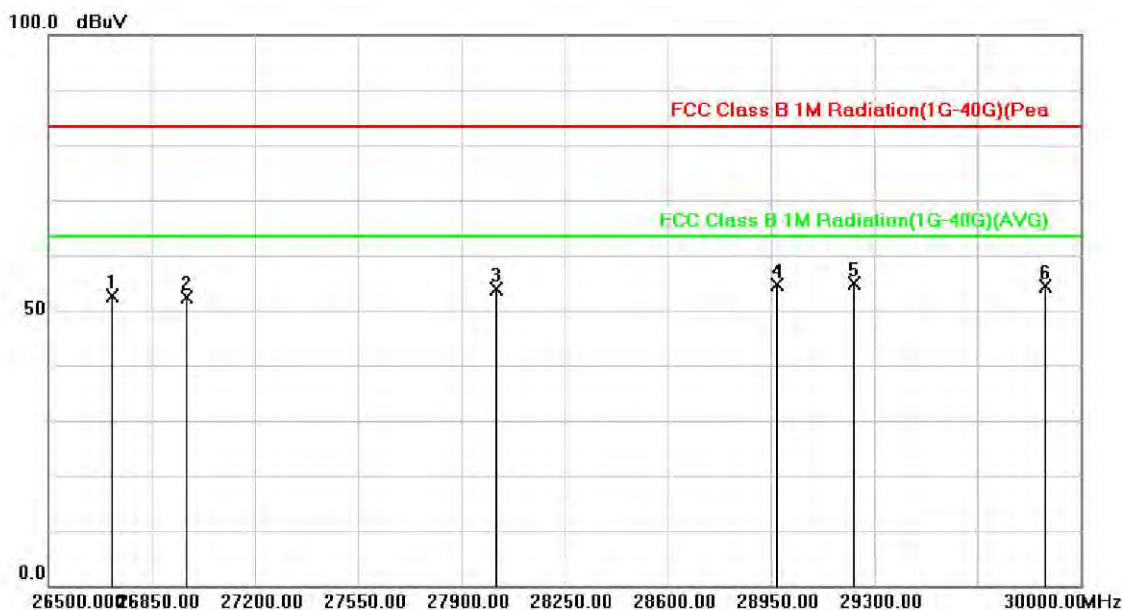
Operation Mode:	Config 2 Recording (Front)	Test Date:	Jan. 06, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		26948.000	60.27	-10.07	50.20	83.50	-33.30	peak	
2		27179.000	60.63	-10.40	50.23	83.50	-33.27	peak	
3		28012.000	60.15	-11.26	48.89	83.50	-34.61	peak	
4		28292.000	60.05	-10.73	49.32	83.50	-34.18	peak	
5		28740.000	59.95	-11.24	48.71	83.50	-34.79	peak	
6 *		28950.000	62.42	-12.05	50.37	83.50	-33.13	peak	

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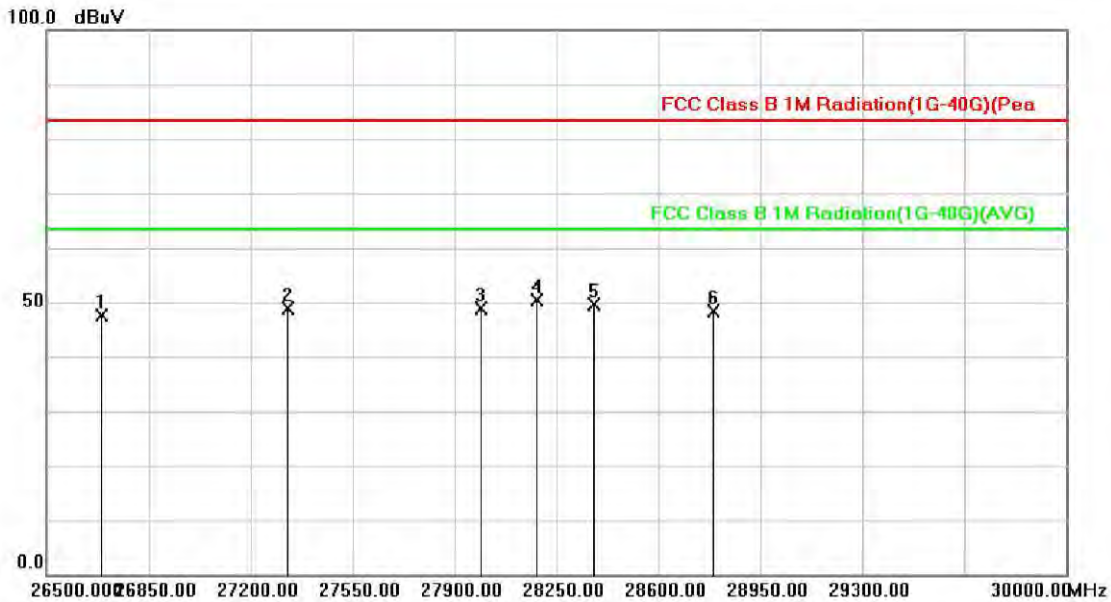
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		26717.000	62.46	-9.81	52.65	83.50	-30.85	peak	
2		26969.000	62.45	-10.09	52.36	83.50	-31.14	peak	
3		28019.000	65.17	-11.25	53.92	83.50	-29.58	peak	
4		28971.000	66.63	-12.12	54.51	83.50	-28.99	peak	
5 *		29230.000	67.04	-12.25	54.79	83.50	-28.71	peak	
6		29881.000	66.66	-12.27	54.39	83.50	-29.11	peak	

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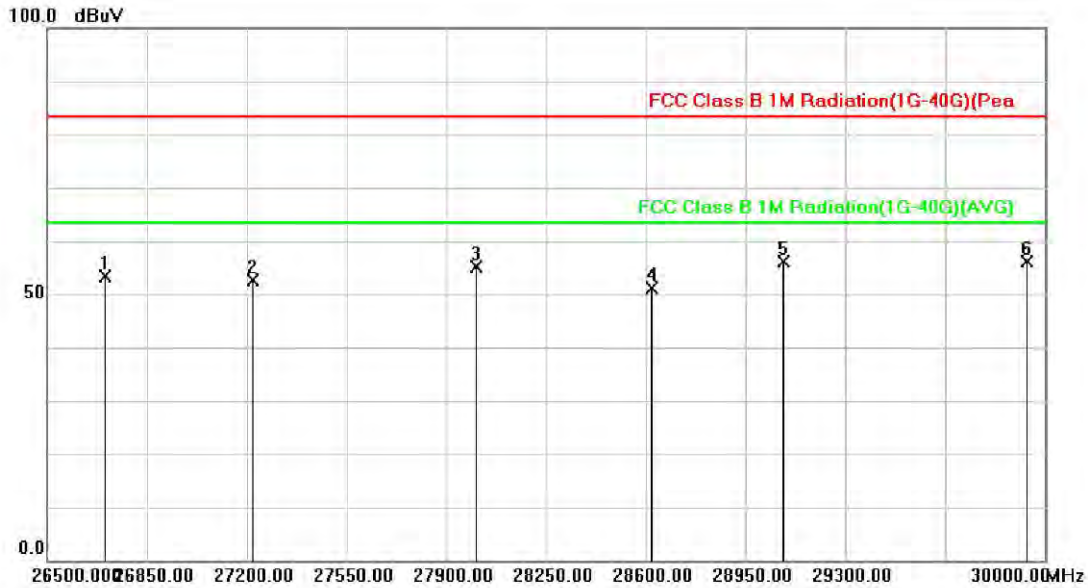
Operation Mode:	Config 2 Recording (Back)	Test Date:	Jan. 06, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		26689.000	57.43	-9.78	47.65	83.50	-35.85	peak	
2		27326.000	59.48	-10.61	48.87	83.50	-34.63	peak	
3		27991.000	60.24	-11.29	48.95	83.50	-34.55	peak	
4	*	28180.000	61.26	-10.94	50.32	83.50	-33.18	peak	
5		28376.000	60.08	-10.57	49.51	83.50	-33.99	peak	
6		28789.000	59.78	-11.43	48.35	83.50	-35.15	peak	

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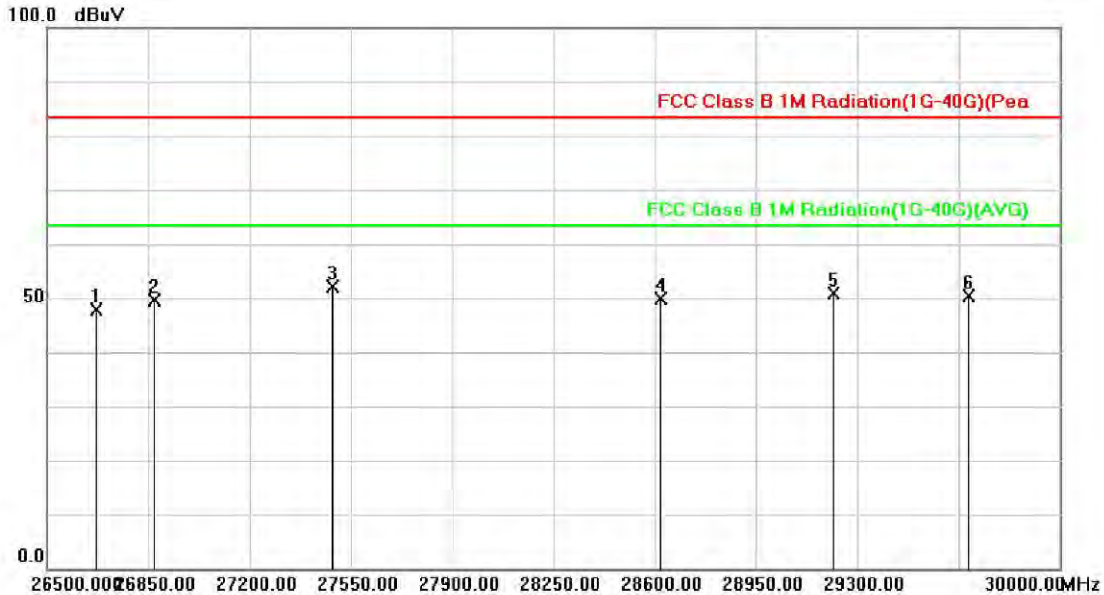
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		26703.000	63.07	-9.79	53.28	83.50	-30.22	peak	
2		27221.000	62.96	-10.45	52.51	83.50	-30.99	peak	
3		28005.000	66.53	-11.28	55.25	83.50	-28.25	peak	
4		28621.000	61.83	-10.78	51.05	83.50	-32.45	peak	
5 *		29083.000	68.34	-12.24	56.10	83.50	-27.40	peak	
6		29937.000	68.34	-12.26	56.08	83.50	-27.42	peak	

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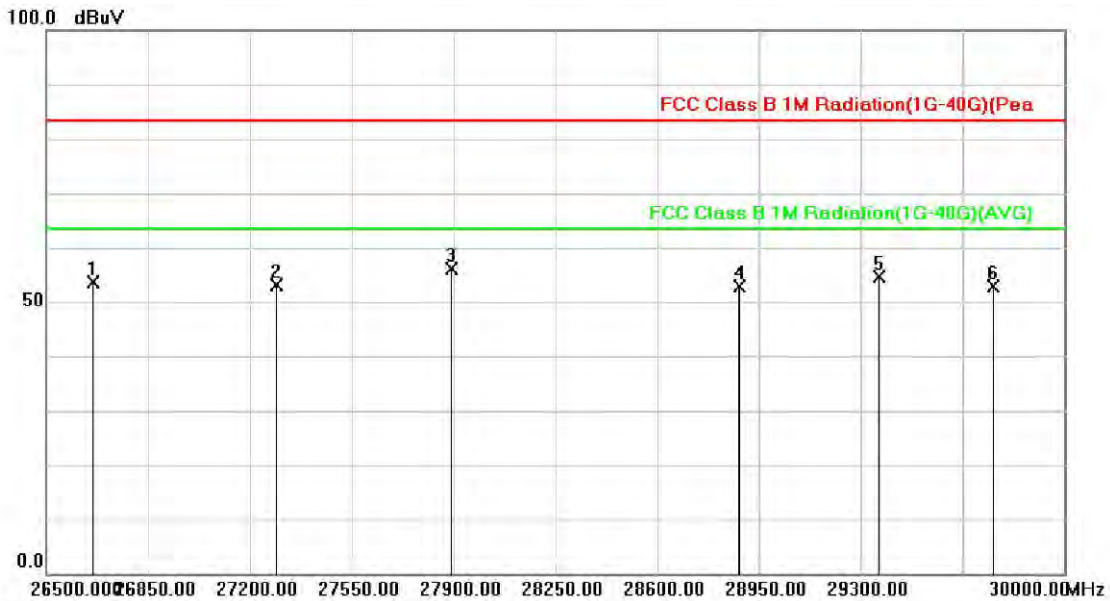
Operation Mode:	Config 2 play recording	Test Date:	Jan. 06, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



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		26871.000	59.50	-9.98	49.52	83.50	-33.98	peak	
3 *		27487.000	63.01	-10.84	52.17	83.50	-31.33	peak	
4		28621.000	60.77	-10.78	49.99	83.50	-33.51	peak	
5		29216.000	63.19	-12.25	50.94	83.50	-32.56	peak	
6		29685.000	62.66	-12.26	50.40	83.50	-33.10	peak	

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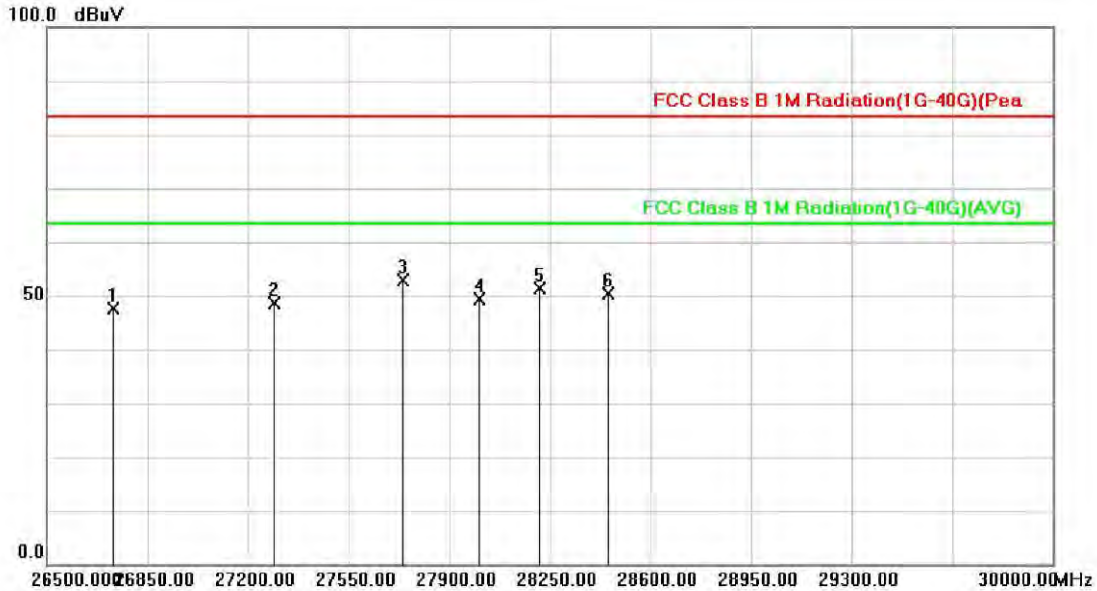
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		26661.000	63.30	-9.74	53.56	83.50	-29.94	peak	
2		27291.000	63.72	-10.56	53.16	83.50	-30.34	peak	
3 *		27893.000	67.38	-11.19	56.19	83.50	-27.31	peak	
4		28880.000	64.63	-11.78	52.85	83.50	-30.65	peak	
5		29363.000	66.99	-12.26	54.73	83.50	-28.77	peak	
6		29755.000	65.21	-12.27	52.94	83.50	-30.56	peak	

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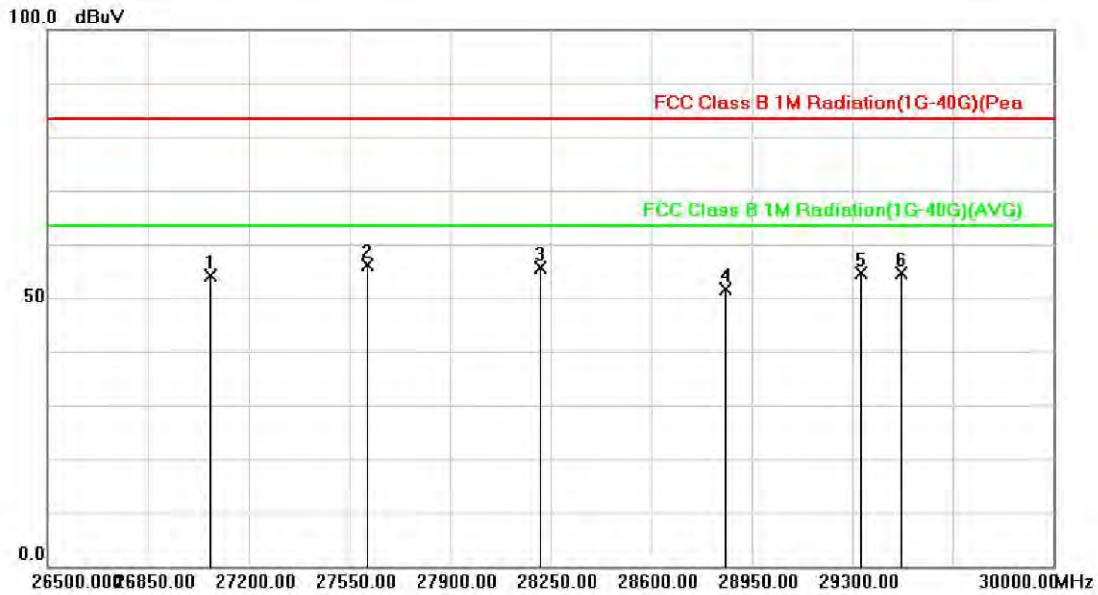
Operation Mode:	Config 2 MP3	Test Date:	Jan. 06, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		26731.000	57.52	-9.83	47.69	83.50	-35.81	peak	
2		27291.000	59.10	-10.56	48.54	83.50	-34.96	peak	
3 *		27739.000	63.84	-11.07	52.77	83.50	-30.73	peak	
4		28005.000	60.59	-11.28	49.31	83.50	-34.19	peak	
5		28215.000	62.19	-10.87	51.32	83.50	-32.18	peak	
6		28453.000	60.75	-10.41	50.34	83.50	-33.16	peak	

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		27067.000	64.42	-10.22	54.20	83.50	-29.30	peak	
2 *		27613.000	67.07	-10.95	56.12	83.50	-27.38	peak	
3		28215.000	66.52	-10.87	55.65	83.50	-27.85	peak	
4		28859.000	63.22	-11.70	51.52	83.50	-31.98	peak	
5		29328.000	66.85	-12.26	54.59	83.50	-28.91	peak	
6		29468.000	66.99	-12.27	54.72	83.50	-28.78	peak	

** End of Report **

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