



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-0855-BV
Added Model(s): N/A
Model Difference: N/A
FCC ID: PY7-PM0855
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
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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-0855-BV

Added Model(s): N/A

Model Difference: N/A

FCC ID: PY7-PM0855

File Number: EM/2014/B0044

Date of EUT Received: Nov. 14, 2014

Date of test: Nov. 21, 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/B0044	Rev.00	Initial Version	Jan. 12, 2015
EM/2014/B0044	Rev.01	Revised HT40 2422~2452 channel	Jan. 16, 2015

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1. General Information

1.1 Product description

General:

Product Name:	Mobile Phone	
Brand Name:	Sony	
Type No.:	PM-0855-BV	
Added Model(s):	N/A	
Model Difference:	N/A	
Data Cable (USB):	Model No.: EC450, Supplier: K-one Type No.: AI-0700, Length: 100 cm	
Simple Hands-Free (SHF-White):	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.B.0.35	
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:	004402453518742	

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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

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	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	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 5	824.7MHz – 848.3MHz	23dBm
		3MHz BW LTE-Band 5	825.5MHz – 847.5MHz	23dBm
		5MHz BW LTE-Band 5	826.5MHz – 846.5MHz	23dBm
		10MHz BW LTE-Band 5	829.0MHz – 844.0MHz	23dBm

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Type of Emission:

GSM 850: 247KGXW, GSM 1900: 250KGXW
 GPRS 850: 246KGXW, GPRS 1900: 246KGXW
 EDGE 850: 250KG7W, EDGE 1900: 248KG7W
 WCDMA Band II: 4M22F9W, WCDMA Band V: 4M23F9W
 HSDPA Band II: 4M21F9W, HSDPA Band V: 4M23F9W
 HSUPA Band II: 4M20F9W, HSUPA Band V: 4M23F9W
 1.4MHz BW LTE-Band 2 QPSK: 1M10G7D
 1.4MHz BW LTE-Band 2 16QAM: 1M10D7W
 3MHz BW LTE-Band 2 QPSK: 2M71 G7D
 3MHz BW LTE-Band 2 16QAM: 2M71D7W
 5MHz BW LTE-Band 2 QPSK: 4M53 G7D
 5MHz BW LTE-Band 2 16QAM: 4M53D7W
 10MHz BW LTE-Band 2 QPSK: 8M99 G7D
 10MHz BW LTE-Band 2 16QAM: 8M99D7W
 15MHz BW LTE-Band 2 QPSK: 13M52 G7D
 15MHz BW LTE-Band 2 16QAM: 13M53D7W
 20MHz BW LTE-Band 2 QPSK: 18M03 G7D
 20MHz BW LTE-Band 2 16QAM: 18M00D7W
 1.4MHz BW LTE-Band 5 QPSK: 1M10 G7D
 1.4MHz BW LTE-Band 5 16QAM: 1M10D7W
 3MHz BW LTE-Band 5 QPSK: 2M70 G7D
 3MHz BW LTE-Band 5 16QAM: 2M70D7W
 5MHz BW LTE-Band 5 QPSK: 4M53 G7D
 5MHz BW LTE-Band 5 16QAM: 4M51D7W
 10MHz BW LTE-Band 5 QPSK: 8M97 G7D
 10MHz BW LTE-Band 5 16QAM: 8M95D7W

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1.2 Test Plan

Test Plan:

PM-0855-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

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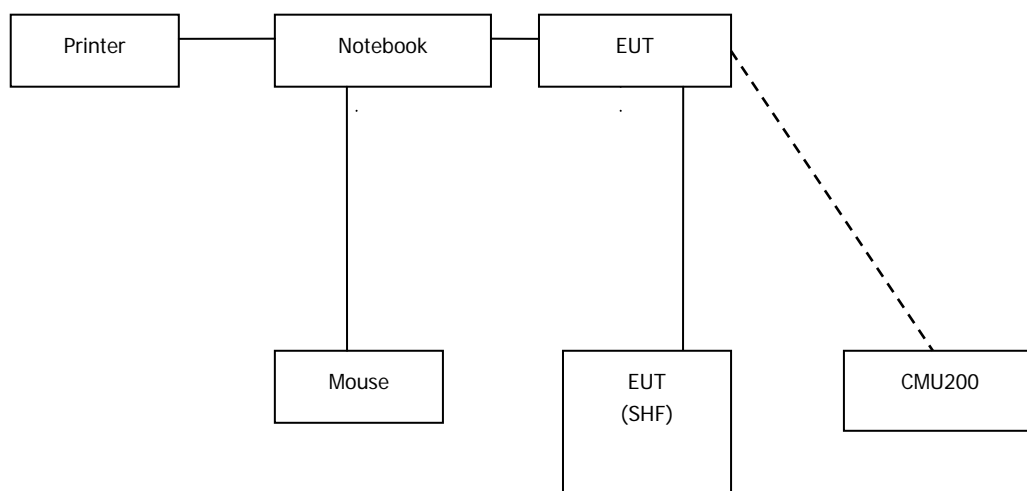


1.6 Cable List

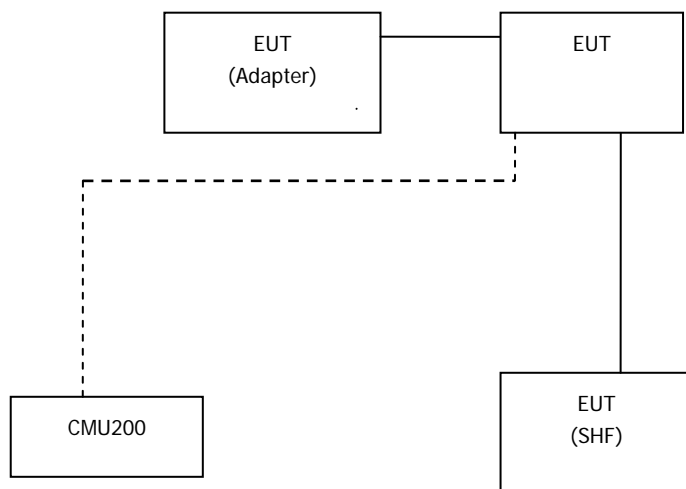
Cable Type	Length	Shielding/Non-shielding
USB cable with core near EUT, near Adapter	1.0 m	Shielding

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	0.1665	-13.36(QP)
			Neutral	2.5460	-13.16(AVG)
	Radiated Emission	PASS	Ver.	37.4240	-9.22(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, 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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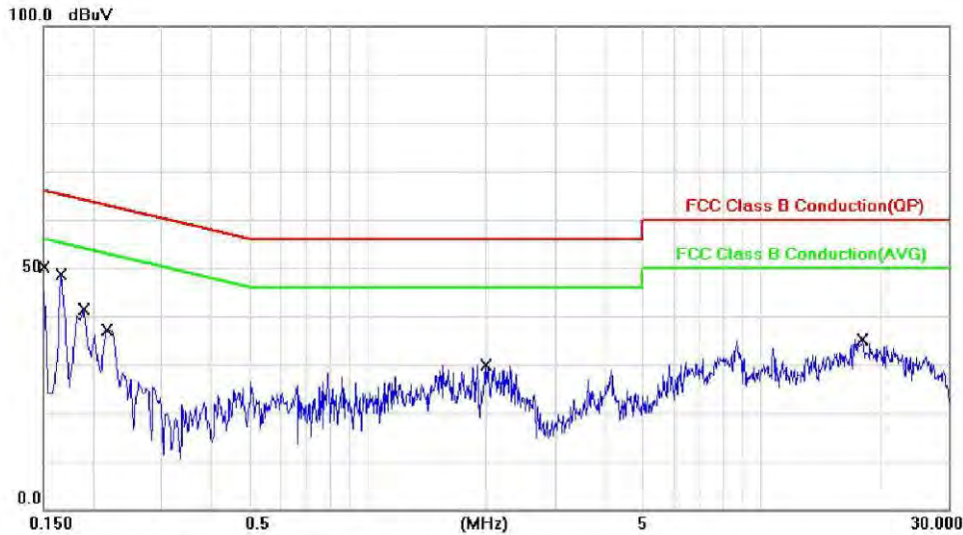
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2.4.6 Measurement Data

Operation Mode:	Config 1 DATA Link (USB)	Test Date:	Nov. 26, 2014
Tested By:	Eddy Cheng	Pol.:	L1



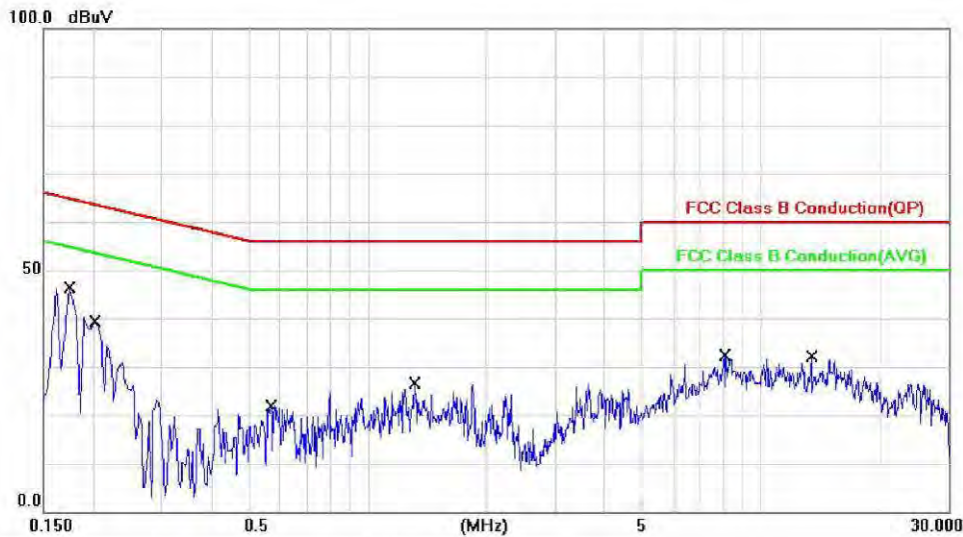
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	50.00	0.07	50.07	66.00	-15.93	QP	
2		0.1500	32.10	0.07	32.17	56.00	-23.83	AVG	
3		0.1660	46.10	0.07	46.17	65.16	-18.99	QP	
4		0.1660	29.80	0.07	29.87	55.16	-25.29	AVG	
5		0.1900	39.80	0.07	39.87	64.04	-24.17	QP	
6		0.1900	24.60	0.07	24.67	54.04	-29.37	AVG	
7		0.2180	35.80	0.07	35.87	62.89	-27.02	QP	
8		0.2180	14.80	0.07	14.87	52.89	-38.02	AVG	
9		1.9940	21.40	0.10	21.50	56.00	-34.50	QP	
10		1.9940	11.20	0.10	11.30	46.00	-34.70	AVG	
11		18.1580	28.00	0.54	28.54	60.00	-31.46	QP	
12		18.1580	20.00	0.54	20.54	50.00	-29.46	AVG	

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Operation Mode:	Config 1 DATA Link (USB)	Test Date:	Nov. 26, 2014
Tested By:	Eddy Cheng	Pol.:	N



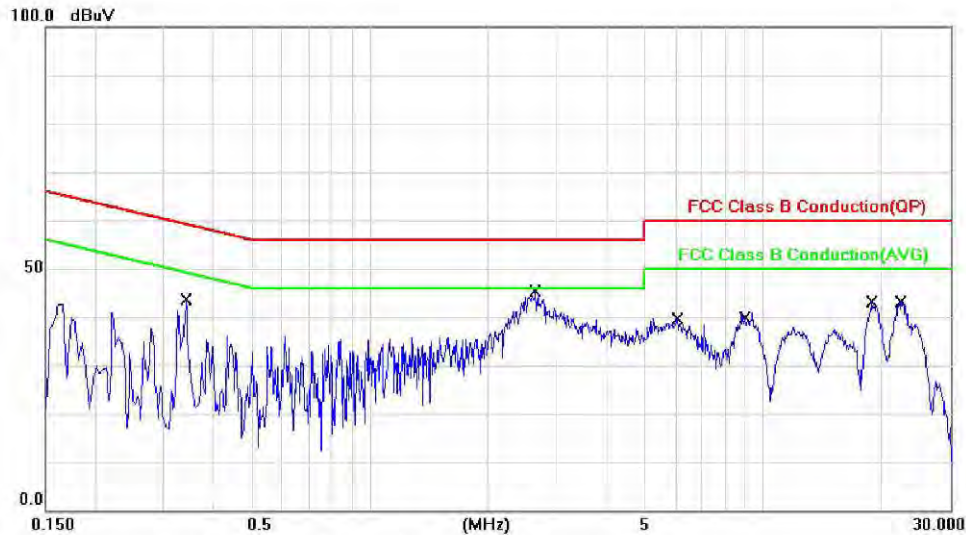
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1740	45.90	0.05	45.95	64.77	-18.82	QP	
2		0.1740	28.30	0.05	28.35	54.77	-26.42	AVG	
3		0.2020	37.70	0.06	37.76	63.53	-25.77	QP	
4		0.2020	21.00	0.06	21.06	53.53	-32.47	AVG	
5		0.5700	20.50	0.08	20.58	56.00	-35.42	QP	
6		0.5700	8.10	0.08	8.18	46.00	-37.82	AVG	
7		1.3180	18.30	0.11	18.41	56.00	-37.59	QP	
8		1.3180	9.50	0.11	9.61	46.00	-36.39	AVG	
9		8.0980	26.20	0.28	26.48	60.00	-33.52	QP	
10		8.0980	18.40	0.28	18.68	50.00	-31.32	AVG	
11		13.4460	24.90	0.42	25.32	60.00	-34.68	QP	
12		13.4460	16.80	0.42	17.22	50.00	-32.78	AVG	

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Operation Mode:	Config 2 Recording (Front)	Test Date:	Nov. 26, 2014
Tested By:	Eddy Cheng	Pol.:	L1



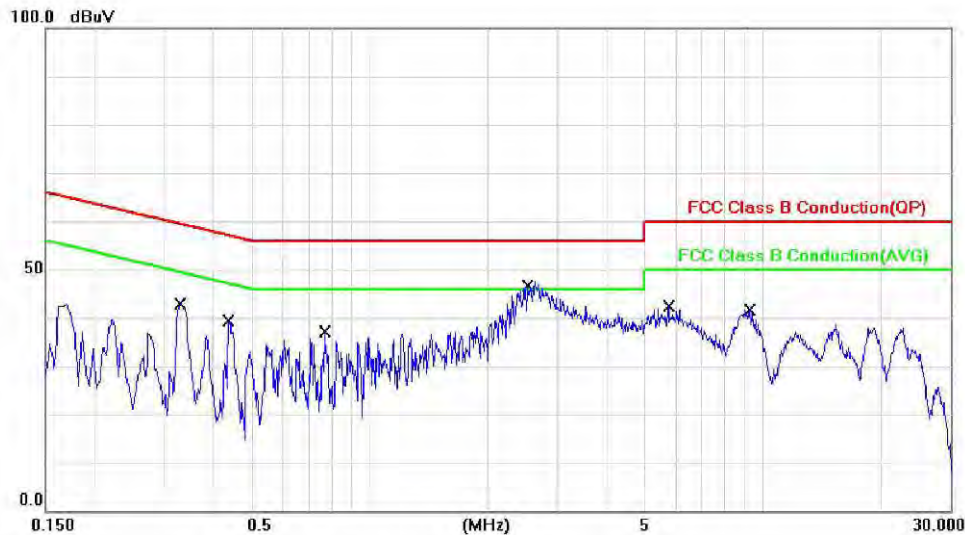
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.3386	41.70	0.07	41.77	59.24	-17.47	QP	
2		0.3386	32.10	0.07	32.17	49.24	-17.07	AVG	
3		2.6620	39.40	0.12	39.52	56.00	-16.48	QP	
4 *		2.6620	30.30	0.12	30.42	46.00	-15.58	AVG	
5		6.0740	33.40	0.21	33.61	60.00	-26.39	QP	
6		6.0740	24.50	0.21	24.71	50.00	-25.29	AVG	
7		9.1600	35.10	0.30	35.40	60.00	-24.60	QP	
8		9.1600	26.20	0.30	26.50	50.00	-23.50	AVG	
9		19.0680	36.50	0.56	37.06	60.00	-22.94	QP	
10		19.0680	26.40	0.56	26.96	50.00	-23.04	AVG	
11		22.4860	36.20	0.66	36.86	60.00	-23.14	QP	
12		22.4860	25.00	0.66	25.66	50.00	-24.34	AVG	

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Operation Mode:	Config 2 Recording (Front)	Test Date:	Nov. 26, 2014
Tested By:	Eddy Cheng	Pol.:	N



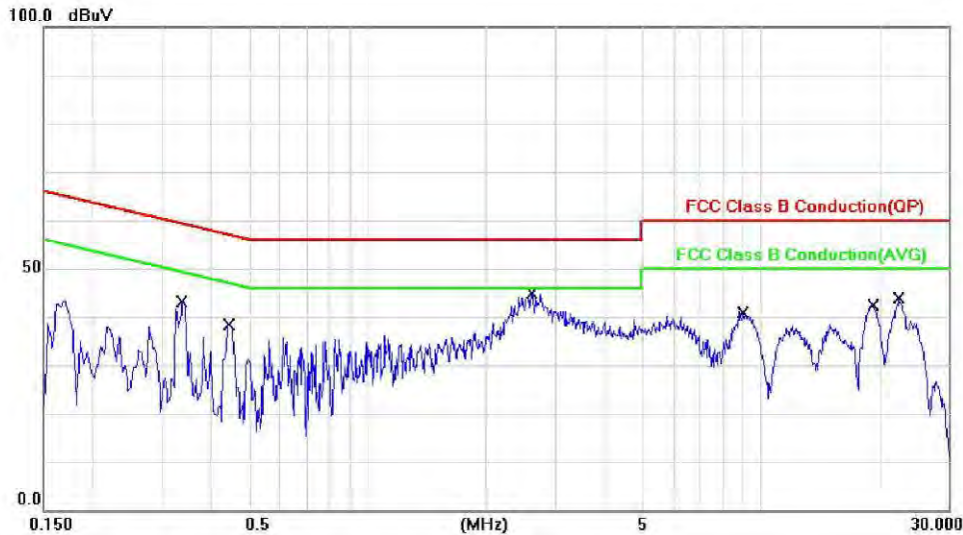
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		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.3327	41.30	0.07	41.37	59.38	-18.01	QP	
2		0.3327	35.40	0.07	35.47	49.38	-13.91	AVG	
3		0.4410	37.80	0.07	37.87	57.04	-19.17	QP	
4		0.4410	30.30	0.07	30.37	47.04	-16.67	AVG	
5		0.7733	34.40	0.09	34.49	56.00	-21.51	QP	
6		0.7733	24.00	0.09	24.09	46.00	-21.91	AVG	
7		2.5460	41.80	0.14	41.94	56.00	-14.06	QP	
8 *		2.5460	32.70	0.14	32.84	46.00	-13.16	AVG	
9		5.7620	35.00	0.22	35.22	60.00	-24.78	QP	
10		5.7620	25.90	0.22	26.12	50.00	-23.88	AVG	
11		9.1560	35.30	0.31	35.61	60.00	-24.39	QP	
12		9.1560	27.10	0.31	27.41	50.00	-22.59	AVG	

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Tested By:	Eddy Cheng	Pol.:	L1



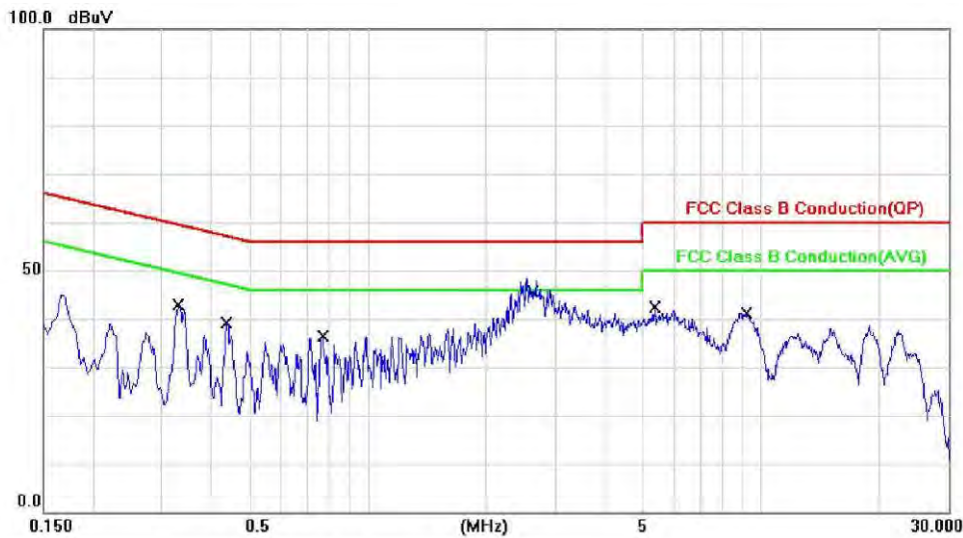
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3406	41.40	0.07	41.47	59.19	-17.72	QP	
2		0.3406	30.70	0.07	30.77	49.19	-18.42	AVG	
3		0.4460	35.70	0.07	35.77	56.95	-21.18	QP	
4		0.4460	25.80	0.07	25.87	46.95	-21.08	AVG	
5		2.6180	39.60	0.12	39.72	56.00	-16.28	QP	
6 *		2.6180	30.20	0.12	30.32	46.00	-15.68	AVG	
7		9.1560	34.90	0.30	35.20	60.00	-24.80	QP	
8		9.1560	26.10	0.30	26.40	50.00	-23.60	AVG	
9		19.2260	36.50	0.56	37.06	60.00	-22.94	QP	
10		19.2260	26.30	0.56	26.86	50.00	-23.14	AVG	
11		22.5140	36.20	0.67	36.87	60.00	-23.13	QP	
12		22.5140	25.00	0.67	25.67	50.00	-24.33	AVG	

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Operation Mode:	Config 2 Recording (Back)	Test Date:	Nov. 26, 2014
Tested By:	Eddy Cheng	Pol.:	N



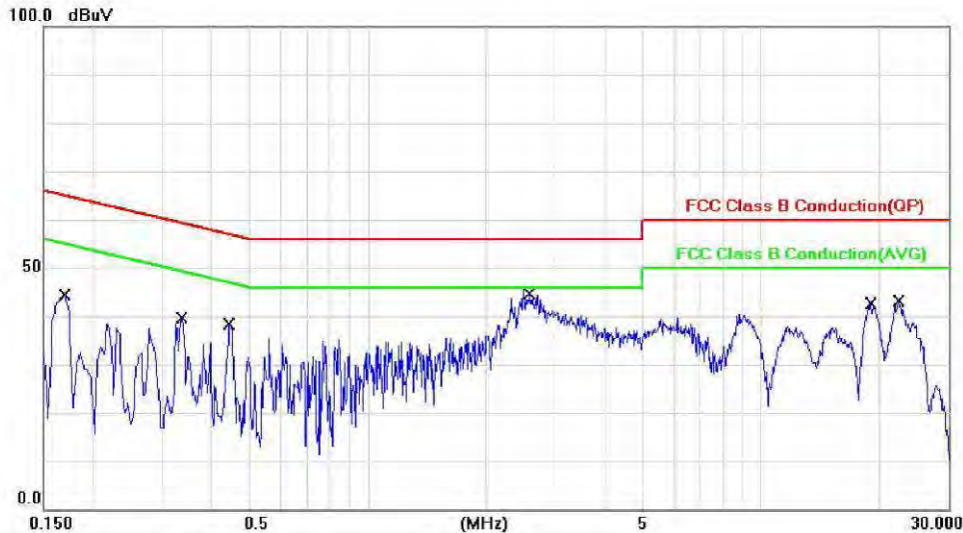
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.3322	41.50	0.07	41.57	59.40	-17.83	QP	
2		0.3322	35.30	0.07	35.37	49.40	-14.03	AVG	
3		0.4416	37.60	0.07	37.67	57.03	-19.36	QP	
4		0.4416	30.50	0.07	30.57	47.03	-16.46	AVG	
5		0.7702	34.60	0.09	34.69	56.00	-21.31	QP	
6		0.7702	23.40	0.09	23.49	46.00	-22.51	AVG	
7		2.6480	42.00	0.14	42.14	56.00	-13.86	QP	
8 *		2.6480	32.70	0.14	32.84	46.00	-13.16	AVG	
9		5.3700	34.50	0.20	34.70	60.00	-25.30	QP	
10		5.3700	25.00	0.20	25.20	50.00	-24.80	AVG	
11		9.0960	35.30	0.31	35.61	60.00	-24.39	QP	
12		9.0960	27.10	0.31	27.41	50.00	-22.59	AVG	

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Operation Mode:	Config 2 play recording	Test Date:	Nov. 26, 2014
Tested By:	Eddy Cheng	Pol.:	L1



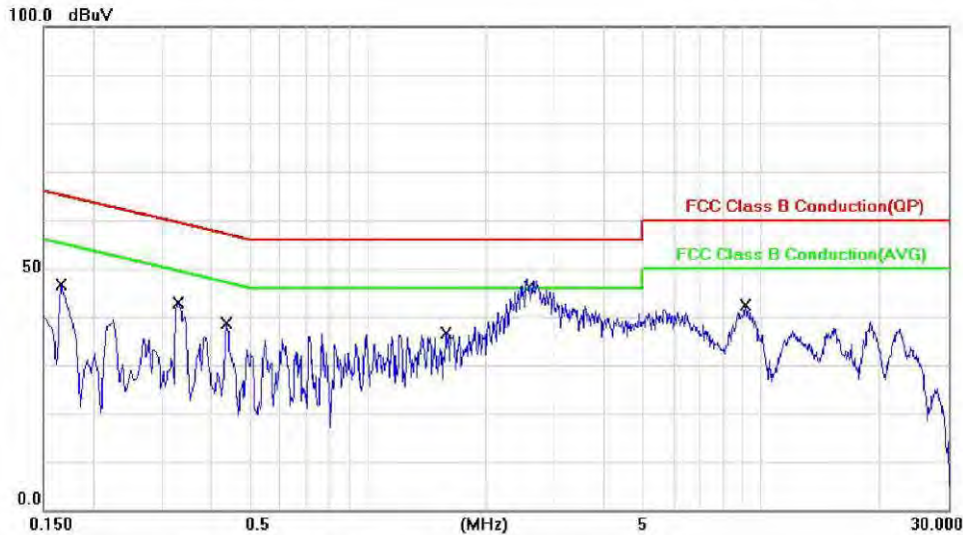
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1671	43.80	0.07	43.87	65.10	-21.23	QP	
2		0.1671	31.60	0.07	31.67	55.10	-23.43	AVG	
3		0.3404	41.50	0.07	41.57	59.19	-17.62	QP	
4		0.3404	30.50	0.07	30.57	49.19	-18.62	AVG	
5		0.4432	36.20	0.07	36.27	57.00	-20.73	QP	
6		0.4432	26.80	0.07	26.87	47.00	-20.13	AVG	
7		2.6100	40.00	0.12	40.12	56.00	-15.88	QP	
8 *		2.6100	30.70	0.12	30.82	46.00	-15.18	AVG	
9		19.2230	36.50	0.56	37.06	60.00	-22.94	QP	
10		19.2230	26.30	0.56	26.86	50.00	-23.14	AVG	
11		22.4240	36.20	0.66	36.86	60.00	-23.14	QP	
12		22.4240	24.90	0.66	25.56	50.00	-24.44	AVG	

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Operation Mode:	Config 2 play recording	Test Date:	Nov. 26, 2014
Tested By:	Eddy Cheng	Pol.:	N



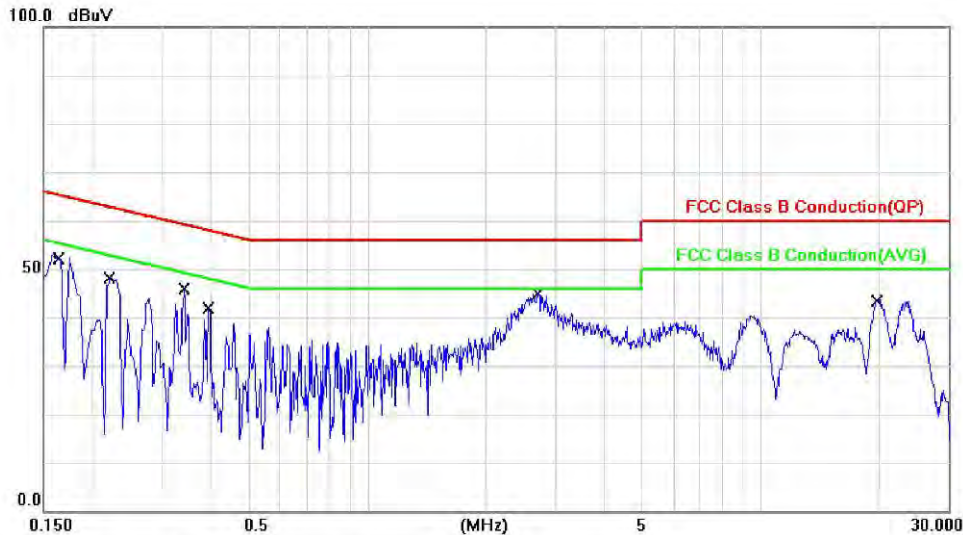
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1667	44.30	0.05	44.35	65.12	-20.77	QP	
2		0.1667	34.00	0.05	34.05	55.12	-21.07	AVG	
3		0.3315	41.70	0.07	41.77	59.41	-17.64	QP	
4		0.3315	35.30	0.07	35.37	49.41	-14.04	AVG	
5		0.4408	37.80	0.07	37.87	57.05	-19.18	QP	
6		0.4408	30.30	0.07	30.37	47.05	-16.68	AVG	
7		1.5860	32.80	0.11	32.91	56.00	-23.09	QP	
8		1.5860	22.00	0.11	22.11	46.00	-23.89	AVG	
9 *		2.5860	42.70	0.14	42.84	56.00	-13.16	QP	
10		2.5860	32.70	0.14	32.84	46.00	-13.16	AVG	
11		9.1140	35.50	0.31	35.81	60.00	-24.19	QP	
12		9.1140	27.00	0.31	27.31	50.00	-22.69	AVG	

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Operation Mode:	Config 2 MP3	Test Date:	Nov. 26, 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	*	0.1665	51.70	0.07	51.77	65.13	-13.36	QP	
2		0.1665	38.20	0.07	38.27	55.13	-16.86	AVG	
3		0.2240	43.90	0.07	43.97	62.67	-18.70	QP	
4		0.2240	29.50	0.07	29.57	52.67	-23.10	AVG	
5		0.3417	42.70	0.07	42.77	59.16	-16.39	QP	
6		0.3417	30.50	0.07	30.57	49.16	-18.59	AVG	
7		0.3915	35.10	0.07	35.17	58.03	-22.86	QP	
8		0.3915	22.80	0.07	22.87	48.03	-25.16	AVG	
9		2.6840	39.30	0.12	39.42	56.00	-16.58	QP	
10		2.6840	30.10	0.12	30.22	46.00	-15.78	AVG	
11		19.6140	36.80	0.57	37.37	60.00	-22.63	QP	
12		19.6140	26.70	0.57	27.27	50.00	-22.73	AVG	

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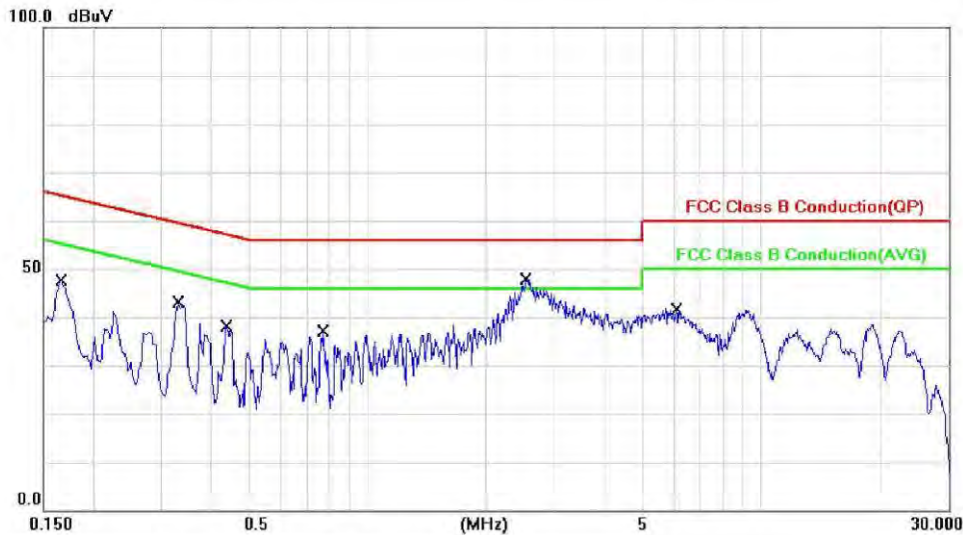
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Operation Mode:	Config 2 MP3	Test Date:	Nov. 26, 2014
Tested By:	Eddy Cheng	Pol.:	N



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1662	45.30	0.05	45.35	65.15	-19.80	QP	
2		0.1662	34.60	0.05	34.65	55.15	-20.50	AVG	
3		0.3307	41.70	0.07	41.77	59.43	-17.66	QP	
4		0.3307	34.90	0.07	34.97	49.43	-14.46	AVG	
5		0.4393	37.70	0.07	37.77	57.07	-19.30	QP	
6		0.4393	29.20	0.07	29.27	47.07	-17.80	AVG	
7		0.7728	34.60	0.09	34.69	56.00	-21.31	QP	
8		0.7728	23.90	0.09	23.99	46.00	-22.01	AVG	
9		2.5460	41.80	0.14	41.94	56.00	-14.06	QP	
10	*	2.5460	32.70	0.14	32.84	46.00	-13.16	AVG	
11		6.1180	34.70	0.23	34.93	60.00	-25.07	QP	
12		6.1180	25.70	0.23	25.93	50.00	-24.07	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
Communication Tester	R&S	CMW500	131123	Mar.10, 2014	Mar.09, 2015
Communication Tester	Anritsu	MT8820C	6200995019	Oct. 08,2014	Oct. 07,2015
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

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2.5.3 Operating Environment

Temperature : 25 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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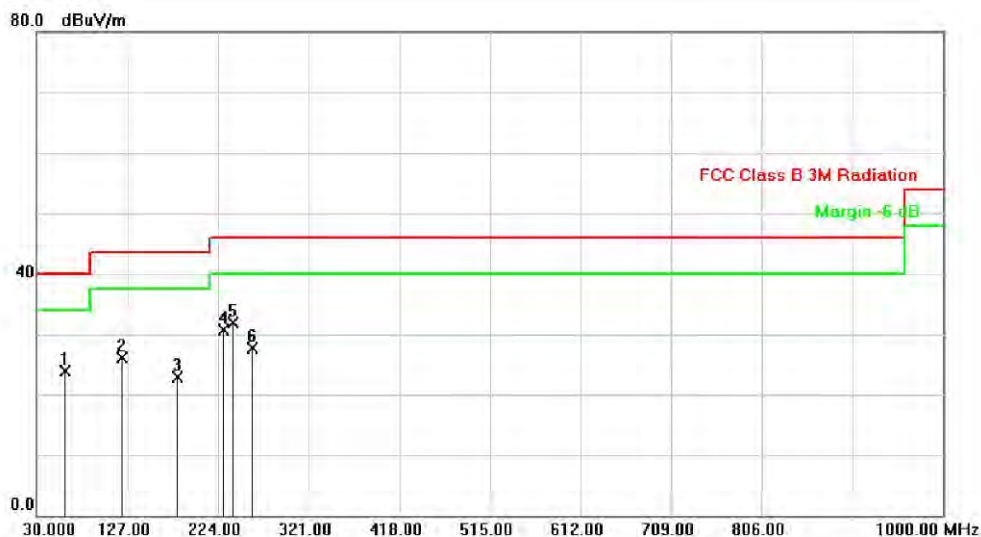
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2.5.6 Measurement Data

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		59.9840	36.89	-13.05	23.84	40.00	-16.16	QP	
2		120.6610	40.73	-14.53	26.20	43.50	-17.30	QP	
3		180.5530	37.01	-14.18	22.83	43.50	-20.67	QP	
4		230.2190	44.85	-14.14	30.71	46.00	-15.29	QP	
5 *		239.9770	45.21	-13.34	31.87	46.00	-14.13	QP	
6		260.5490	40.73	-13.02	27.71	46.00	-18.29	QP	

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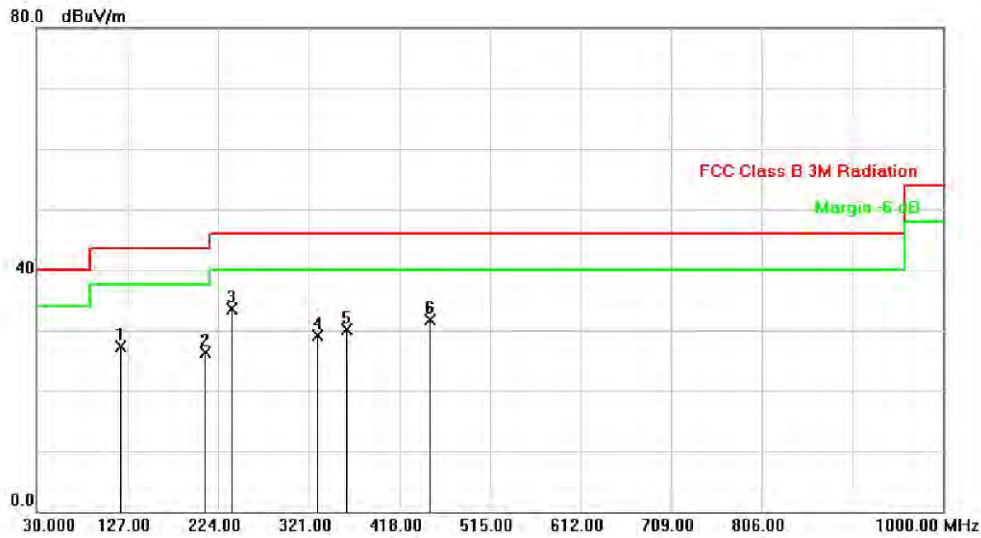
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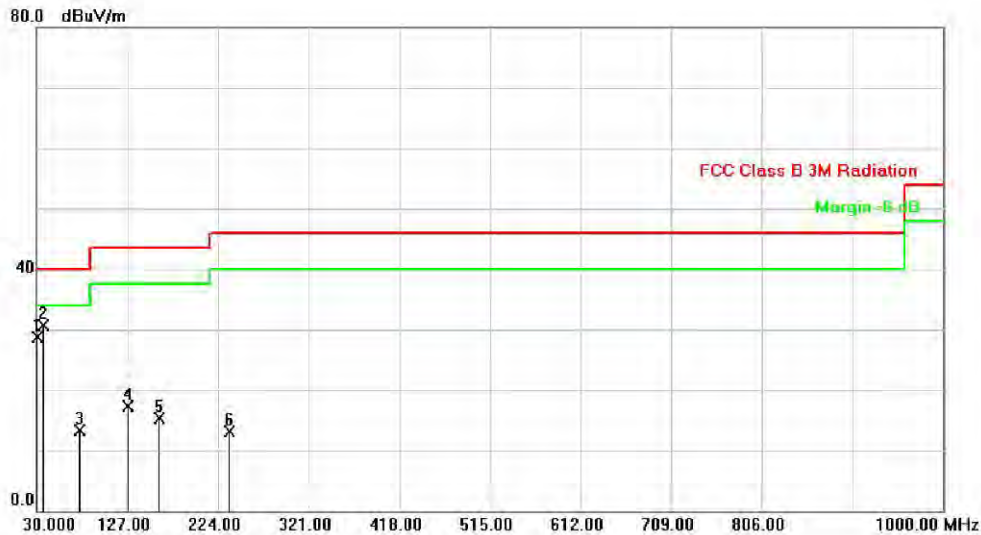
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		120.4550	41.87	-14.56	27.31	43.50	-16.19	QP	
2		210.1310	41.10	-14.74	26.36	43.50	-17.14	QP	
3 *		238.3610	46.94	-13.47	33.47	46.00	-12.53	QP	
4		330.5490	39.76	-10.63	29.13	46.00	-16.87	QP	
5		361.4180	40.03	-9.85	30.18	46.00	-15.82	QP	
6		451.1710	39.31	-7.59	31.72	46.00	-14.28	QP	

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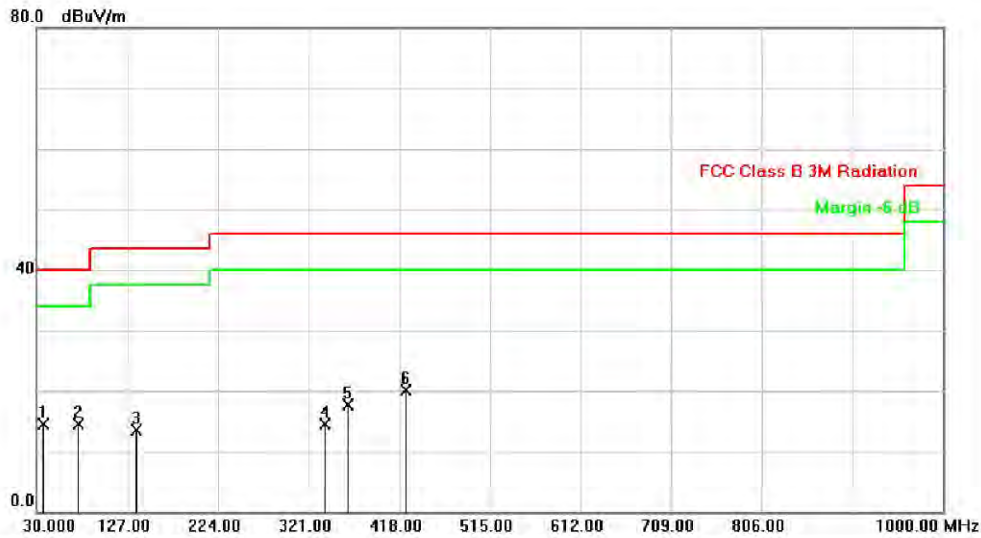
Operation Mode:	Config 2 Recording (Front)	Test Date:	Jan. 03, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		30.3000	42.09	-13.34	28.75	40.00	-11.25	QP	
2 *		37.4240	43.64	-12.86	30.78	40.00	-9.22	QP	
3		75.9490	29.21	-15.85	13.36	40.00	-26.64	QP	
4		127.2720	30.93	-13.67	17.26	43.50	-26.24	QP	
5		161.2350	27.28	-11.95	15.33	43.50	-28.17	QP	
6		236.3620	26.66	-13.64	13.02	46.00	-32.98	QP	

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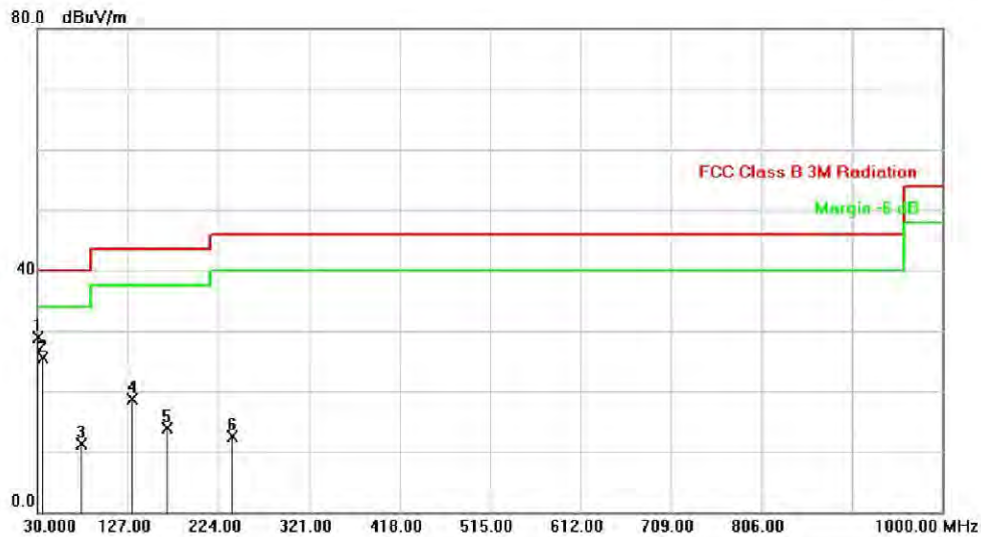
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		37.1110	27.33	-12.89	14.44	40.00	-25.56	QP	
2	*	74.5880	30.13	-15.62	14.51	40.00	-25.49	QP	
3		136.5450	26.16	-12.74	13.42	43.50	-30.08	QP	
4		338.7080	24.97	-10.39	14.58	46.00	-31.42	QP	
5		363.1090	27.50	-9.83	17.67	46.00	-28.33	QP	
6		425.3990	28.51	-8.38	20.13	46.00	-25.87	QP	

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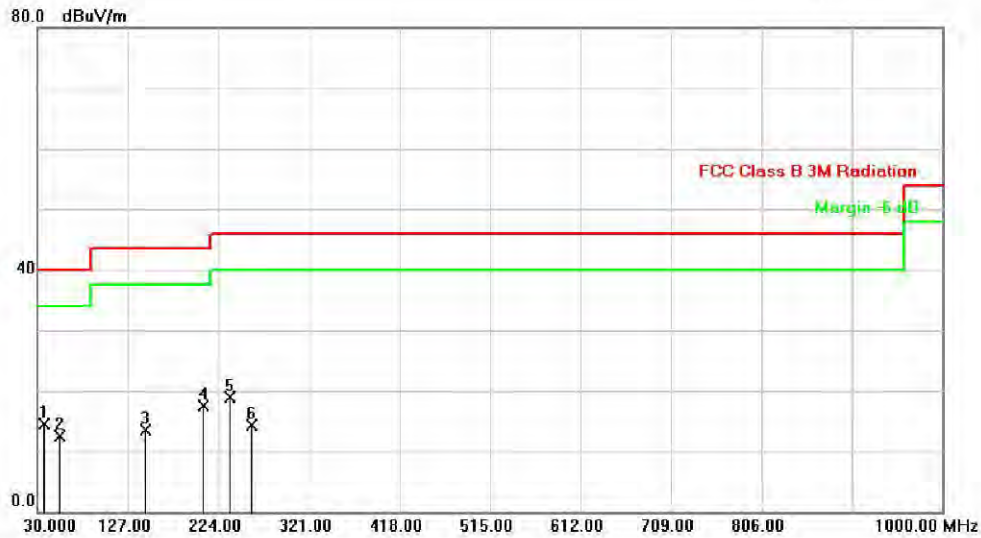
Operation Mode:	Config 2 Recording (Back)	Test Date:	Nov. 24, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1 *		30.7200	42.17	-13.32	28.85	40.00	-11.15	QP	
2		36.2100	38.45	-12.98	25.47	40.00	-14.53	QP	
3		77.8100	27.55	-16.17	11.38	40.00	-28.62	QP	
4		132.0400	31.83	-13.14	18.69	43.50	-24.81	QP	
5		168.4900	26.28	-12.29	13.99	43.50	-29.51	QP	
6		238.9400	25.85	-13.42	12.43	46.00	-33.57	QP	

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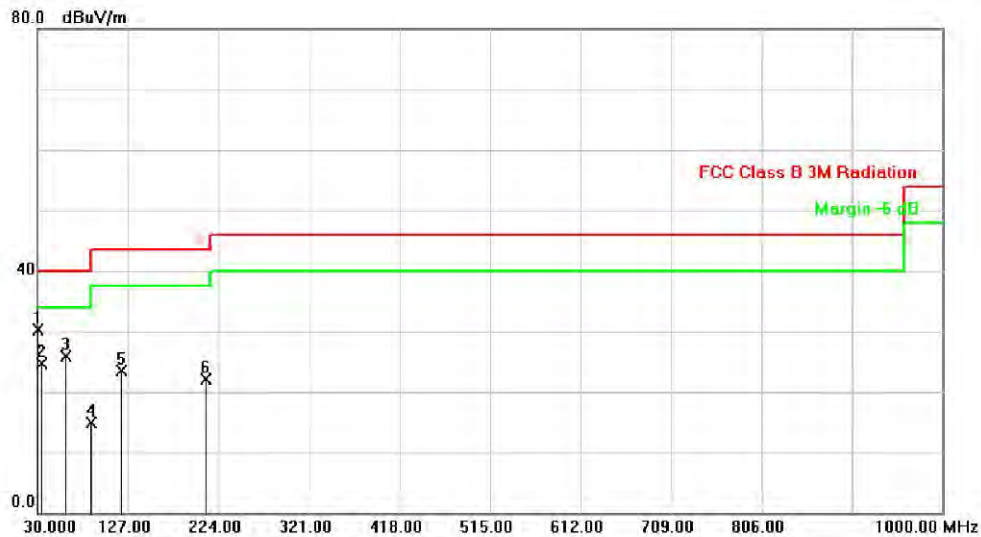
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	37.5600	27.33	-12.83	14.50	40.00	-25.50	QP	
2		54.4060	24.93	-12.50	12.43	40.00	-27.57	QP	
3		146.0460	25.73	-12.23	13.50	43.50	-30.00	QP	
4		208.0040	32.29	-14.84	17.45	43.50	-26.05	QP	
5		236.3890	32.58	-13.64	18.94	46.00	-27.06	QP	
6		260.0130	27.31	-13.04	14.27	46.00	-31.73	QP	

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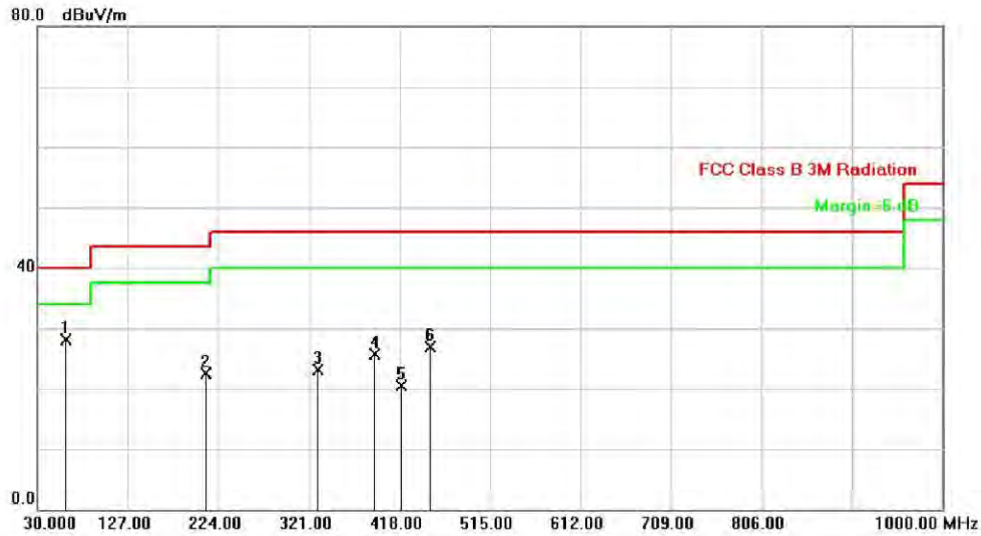
Operation Mode:	Config 2 play recording	Test Date:	Nov. 24, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	30.0550	43.67	-13.35	30.32	40.00	-9.68	QP	
2		35.0100	37.77	-13.11	24.66	40.00	-15.34	QP	
3		60.1700	38.92	-13.08	25.84	40.00	-14.16	QP	
4		87.7240	33.21	-18.32	14.89	40.00	-25.11	QP	
5		120.3840	38.02	-14.56	23.46	43.50	-20.04	QP	
6		210.6360	36.91	-14.76	22.15	43.50	-21.35	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	*	60.2220	41.20	-13.09	28.11	40.00	-11.89	QP	
2		210.6720	37.30	-14.76	22.54	43.50	-20.96	QP	
3		330.9580	33.82	-10.62	23.20	46.00	-22.80	QP	
4		391.2200	34.94	-9.33	25.61	46.00	-20.39	QP	
5		420.5300	29.04	-8.53	20.51	46.00	-25.49	QP	
6		451.5584	34.44	-7.60	26.84	46.00	-19.16	QP	

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Operation Mode:	Config 2 MP3	Test Date:	Nov. 24, 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	*	30.0680	40.22	-13.35	26.87	40.00	-13.13	QP	
2		37.2500	38.59	-12.87	25.72	40.00	-14.28	QP	
3		78.3460	28.50	-16.26	12.24	40.00	-27.76	QP	
4		112.6640	36.07	-15.36	20.71	43.50	-22.79	QP	
5		138.3660	27.54	-12.57	14.97	43.50	-28.53	QP	
6		210.7380	31.70	-14.76	16.94	43.50	-26.56	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	*	42.6100	26.97	-12.36	14.61	40.00	-25.39	QP	
2		85.6520	29.57	-17.85	11.72	40.00	-28.28	QP	
3		138.4040	25.71	-12.57	13.14	43.50	-30.36	QP	
4		208.0020	32.62	-14.84	17.78	43.50	-25.72	QP	
5		259.9740	29.14	-13.04	16.10	46.00	-29.90	QP	
6		312.0360	24.03	-11.18	12.85	46.00	-33.15	QP	

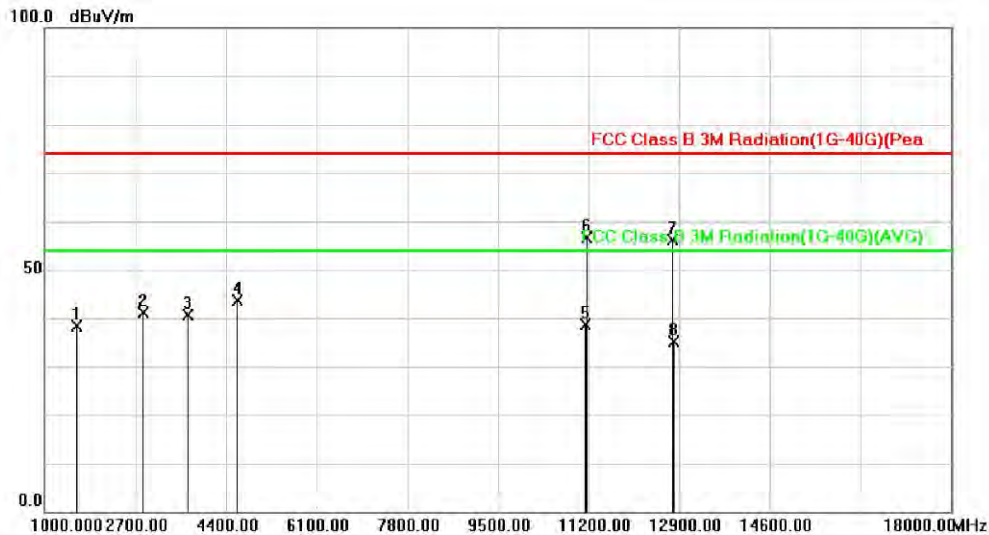
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Above 1 - 18 GHz

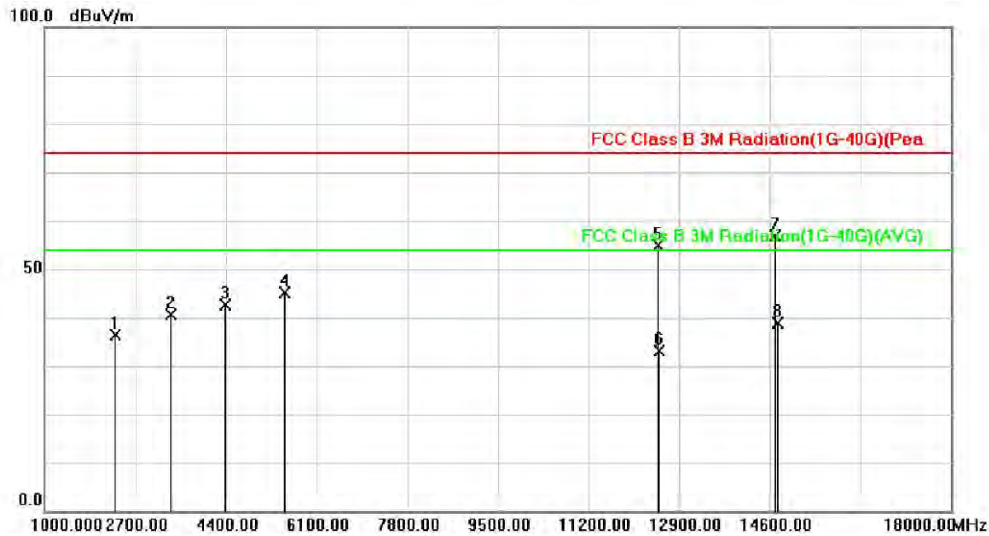
Operation Mode:	Config 1 DATA Link (USB)	Test Date:	Jan. 03, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		1595.000	57.72	-19.43	38.29	74.00	-35.71	peak	
2		2853.000	56.02	-14.99	41.03	74.00	-32.97	peak	
3		3686.000	54.42	-13.74	40.68	74.00	-33.32	peak	
4		4621.000	55.09	-11.34	43.75	74.00	-30.25	peak	
5 *		11139.050	-13.24	51.75	38.51	54.00	-15.49	AVG	
6		11166.000	4.98	51.76	56.74	74.00	-17.26	peak	
7		12781.000	4.53	51.64	56.17	74.00	-17.83	peak	
8		12808.260	-16.60	51.71	35.11	54.00	-18.89	AVG	

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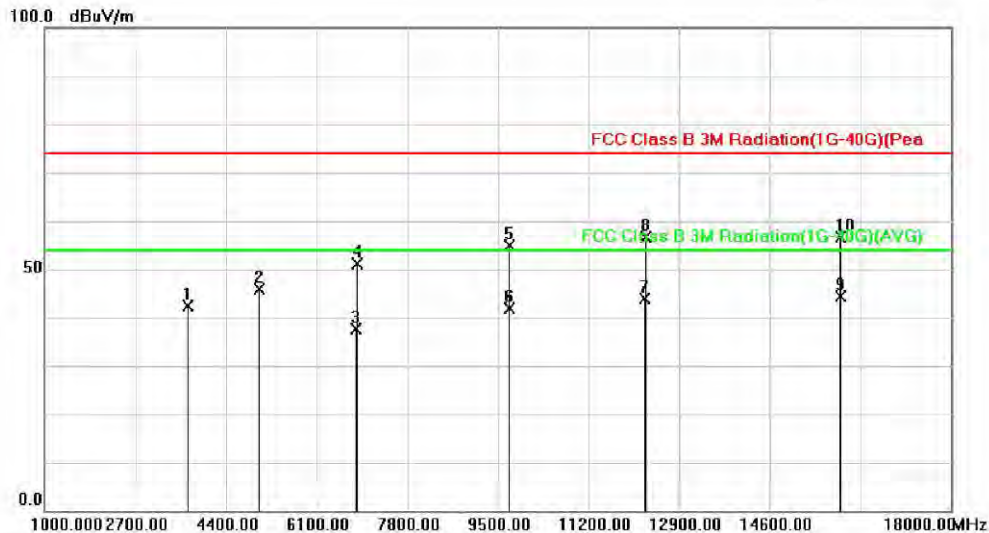
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2326.000	53.31	-17.04	36.27	74.00	-37.73	peak	
2		3363.000	54.90	-14.30	40.60	74.00	-33.40	peak	
3		4383.000	54.51	-11.90	42.61	74.00	-31.39	peak	
4		5505.000	55.15	-9.97	45.18	74.00	-28.82	peak	
5		12509.000	4.13	50.85	54.98	74.00	-19.02	peak	
6		12533.400	-17.90	50.92	33.02	54.00	-20.98	AVG	
7		14702.000	2.28	54.66	56.94	74.00	-17.06	peak	
8 *		14737.590	-15.66	54.60	38.94	54.00	-15.06	AVG	

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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		3686.000	54.64	-12.17	42.47	74.00	-31.53	peak	
2		5012.000	55.09	-9.11	45.98	74.00	-28.02	peak	
3		6839.660	41.78	-4.08	37.70	54.00	-16.30	AVG	
4		6848.000	55.25	-4.05	51.20	74.00	-22.80	peak	
5		9704.000	52.83	1.93	54.76	74.00	-19.24	peak	
6		9704.460	39.84	1.93	41.77	54.00	-12.23	AVG	
7		12261.540	-8.66	52.54	43.88	54.00	-10.12	AVG	
8		12271.000	4.06	52.52	56.58	74.00	-17.42	peak	
9 *		15921.840	-8.77	53.26	44.49	54.00	-9.51	AVG	
10		15926.000	3.42	53.26	56.68	74.00	-17.32	peak	

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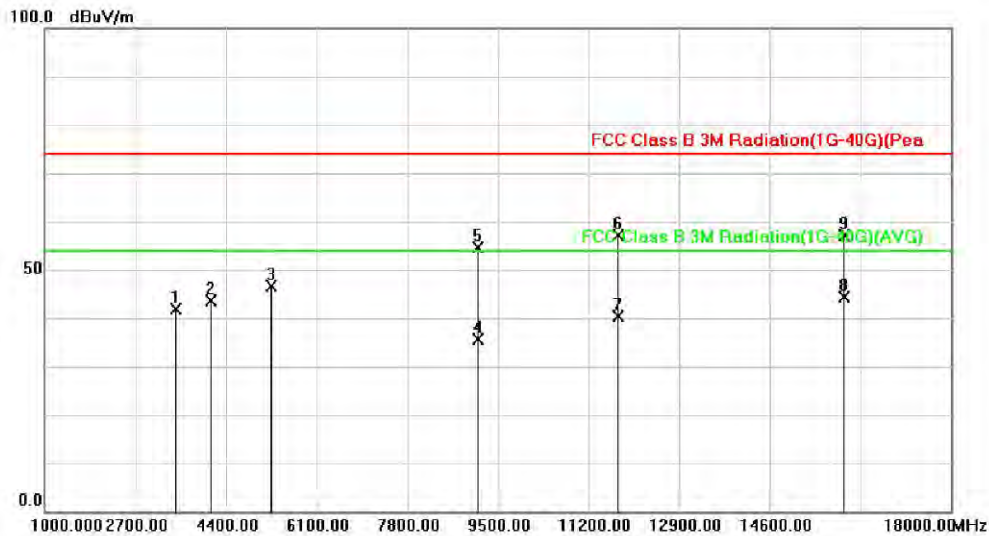
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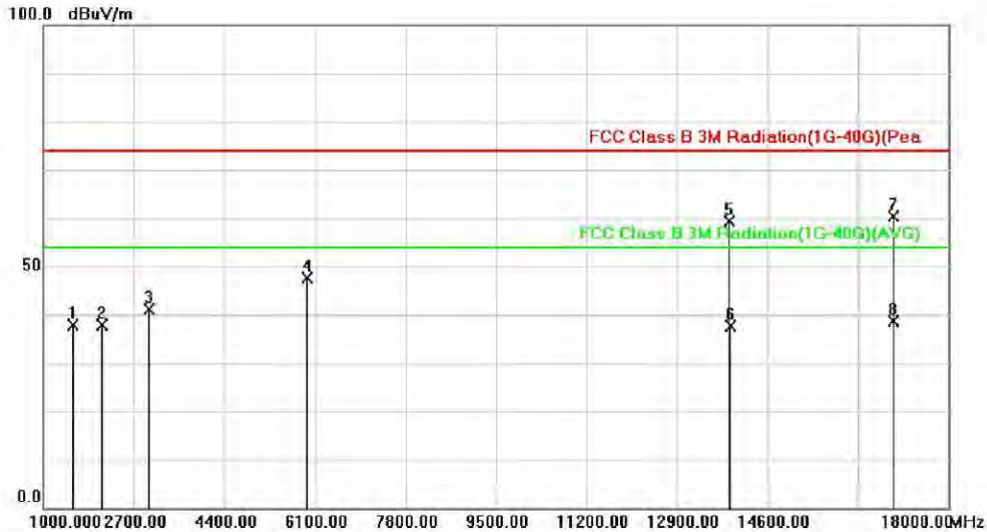
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		3465.000	54.51	-12.72	41.79	74.00	-32.21	peak	
2		4111.000	54.85	-11.14	43.71	74.00	-30.29	peak	
3		5250.000	55.42	-8.83	46.59	74.00	-27.41	peak	
4		9117.360	34.88	0.83	35.71	54.00	-18.29	AVG	
5		9126.000	53.81	0.85	54.66	74.00	-19.34	peak	
6		11744.000	4.33	52.76	57.09	74.00	-16.91	peak	
7		11758.140	-12.45	52.75	40.30	54.00	-13.70	AVG	
8 *		15984.640	-8.78	53.18	44.40	54.00	-9.60	AVG	
9		15994.000	4.09	53.16	57.25	74.00	-16.75	peak	

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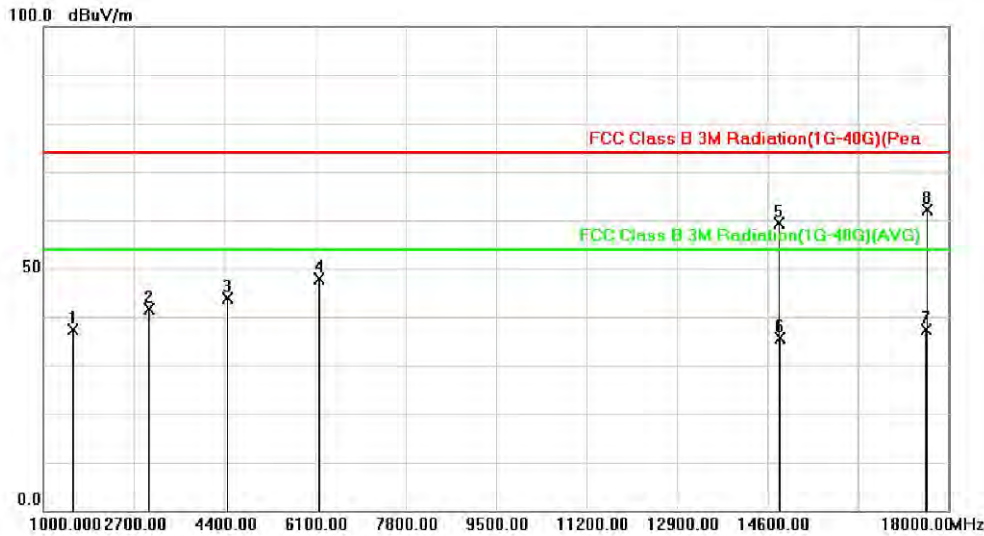
Operation Mode:	Config 2 Recording (Back)	Test Date:	Nov. 21, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1561.000	57.43	-19.49	37.94	74.00	-36.06	peak	
2		2105.000	56.05	-18.10	37.95	74.00	-36.05	peak	
3		2989.000	55.67	-14.54	41.13	74.00	-32.87	peak	
4		5947.000	56.40	-8.77	47.63	74.00	-26.37	peak	
5		13886.000	4.97	54.36	59.33	74.00	-14.67	peak	
6		13897.415	-16.80	54.38	37.58	54.00	-16.42	AVG	
7 *		16963.000	5.09	55.17	60.26	74.00	-13.74	peak	
8		16978.892	-16.56	55.23	38.67	54.00	-15.33	AVG	

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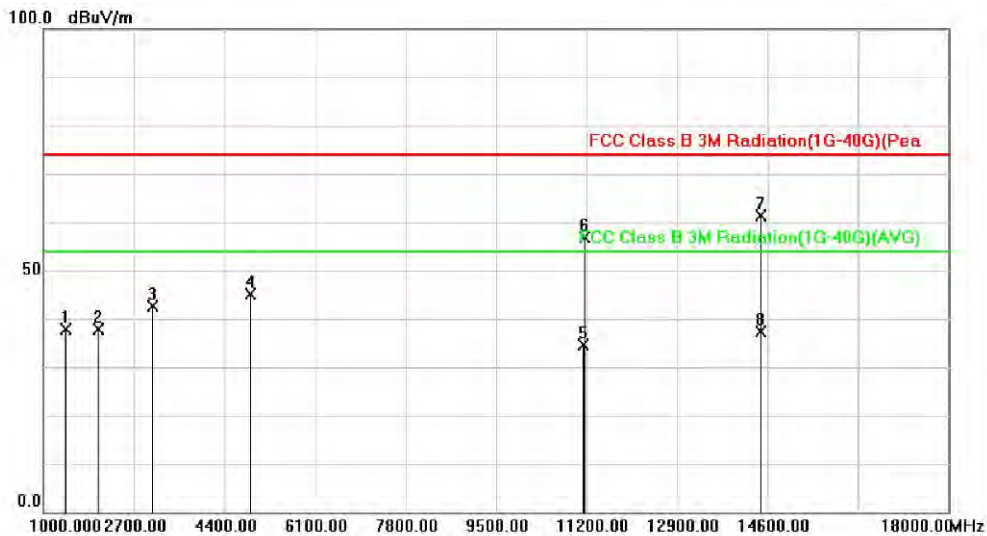
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		1544.000	56.89	-19.51	37.38	74.00	-36.62	peak	
2		2972.000	56.18	-14.60	41.58	74.00	-32.42	peak	
3		4451.000	55.50	-11.73	43.77	74.00	-30.23	peak	
4		6185.000	55.87	-7.93	47.94	74.00	-26.06	peak	
5		14821.000	4.97	54.45	59.42	74.00	-14.58	peak	
6		14843.615	-18.90	54.41	35.51	54.00	-18.49	AVG	
7		17584.495	-19.37	56.86	37.49	54.00	-16.51	AVG	
8 *		17592.000	5.28	56.92	62.20	74.00	-11.80	peak	

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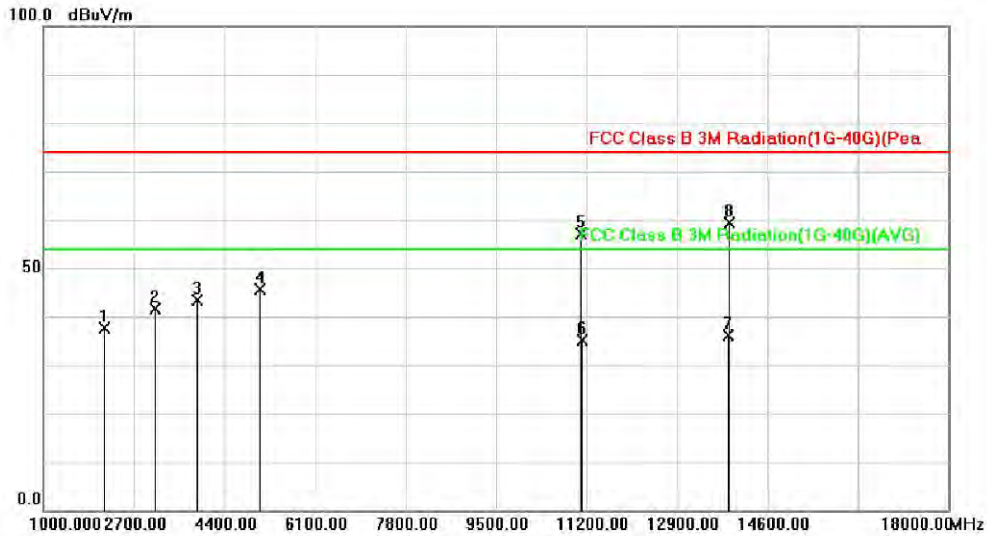
Operation Mode:	Config 2 play recording	Test Date:	Nov. 21, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1408.000	57.74	-19.97	37.77	74.00	-36.23	peak	
2		2037.000	56.32	-18.43	37.89	74.00	-36.11	peak	
3		3040.000	57.18	-14.47	42.71	74.00	-31.29	peak	
4		4876.000	55.84	-10.78	45.06	74.00	-28.94	peak	
5		11152.943	-17.14	51.76	34.62	54.00	-19.38	AVG	
6		11166.000	5.01	51.76	56.77	74.00	-17.23	peak	
7 *		14464.000	6.33	55.00	61.33	74.00	-12.67	peak	
8		14477.049	-17.72	55.01	37.29	54.00	-16.71	AVG	

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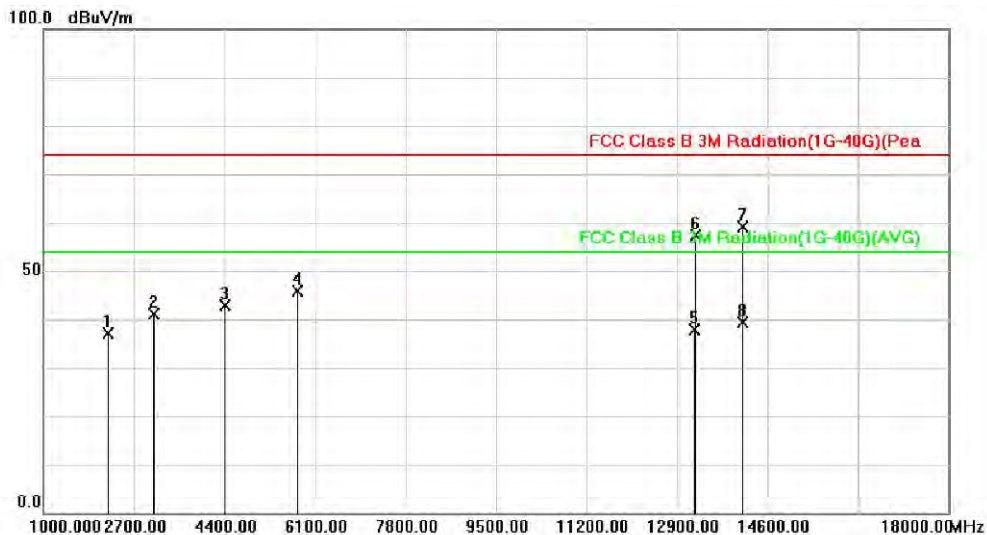
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2139.000	55.45	-17.94	37.51	74.00	-36.49	peak	
2		3091.000	56.16	-14.44	41.72	74.00	-32.28	peak	
3		3890.000	56.52	-13.17	43.35	74.00	-30.65	peak	
4		5063.000	56.10	-10.44	45.66	74.00	-28.34	peak	
5		11098.000	53.95	3.30	57.25	74.00	-16.75	peak	
6		11115.648	-16.52	51.74	35.22	54.00	-18.78	AVG	
7		13873.713	-18.20	54.33	36.13	54.00	-17.87	AVG	
8	*	13886.000	5.04	54.36	59.40	74.00	-14.60	peak	

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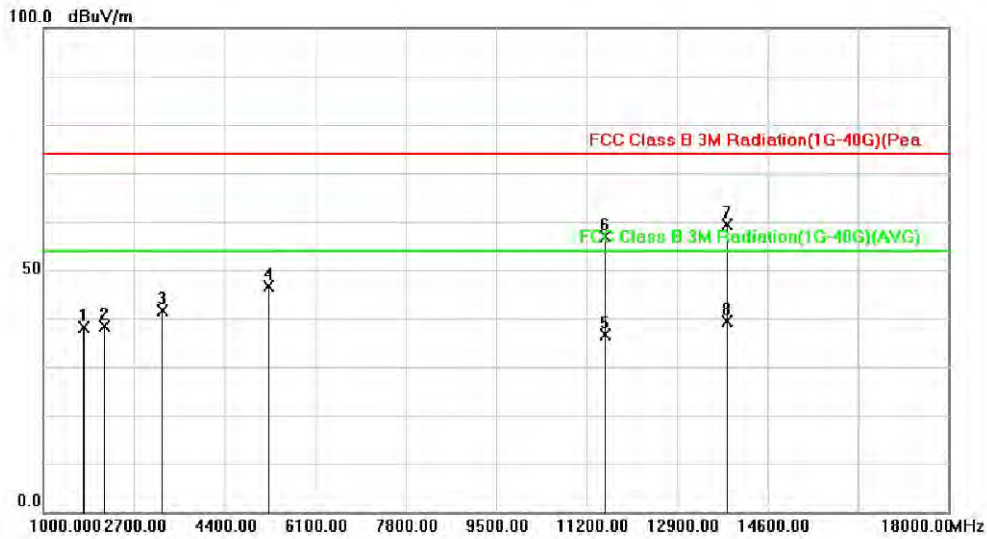
Operation Mode:	Config 2 MP3	Test Date:	Nov. 21, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2207.000	54.67	-17.60	37.07	74.00	-36.93	peak	
2		3074.000	55.48	-14.46	41.02	74.00	-32.98	peak	
3		4417.000	54.79	-11.82	42.97	74.00	-31.03	peak	
4		5777.000	55.14	-9.25	45.89	74.00	-28.11	peak	
5		13228.772	-15.00	52.86	37.86	54.00	-16.14	AVG	
6		13240.000	4.54	52.90	57.44	74.00	-16.56	peak	
7		14124.000	4.34	54.70	59.04	74.00	-14.96	peak	
8 *		14145.681	-15.38	54.72	39.34	54.00	-14.66	AVG	

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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		2139.000	56.34	-17.94	38.40	74.00	-35.60	peak	
3		3227.000	56.07	-14.37	41.70	74.00	-32.30	peak	
4		5216.000	56.93	-10.29	46.64	74.00	-27.36	peak	
5		11543.452	-15.16	51.81	36.65	54.00	-17.35	AVG	
6		11557.000	5.11	51.78	56.89	74.00	-17.11	peak	
7		13835.000	5.04	54.25	59.29	74.00	-14.71	peak	
8 *		13851.121	-14.79	54.28	39.49	54.00	-14.51	AVG	

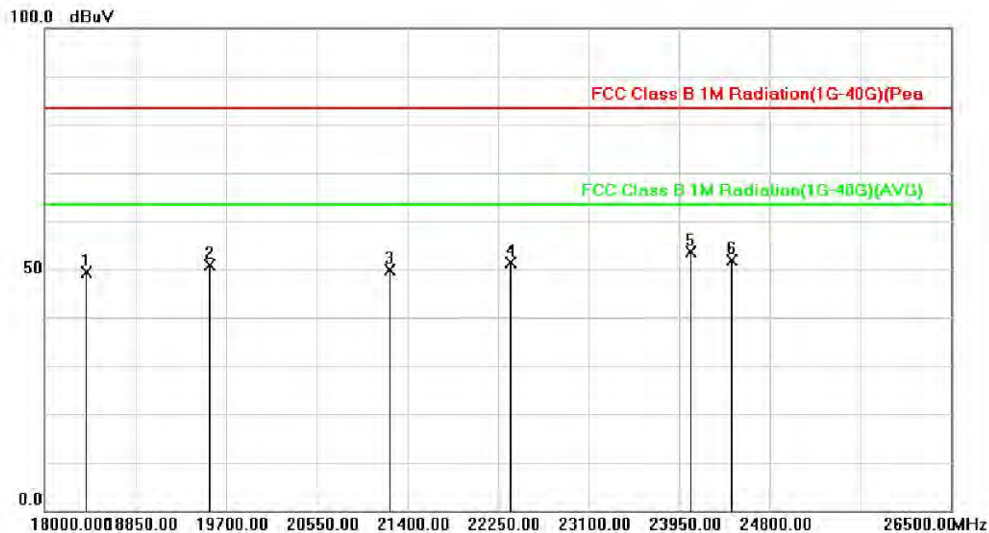
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Above 18 – 26.5 GHz

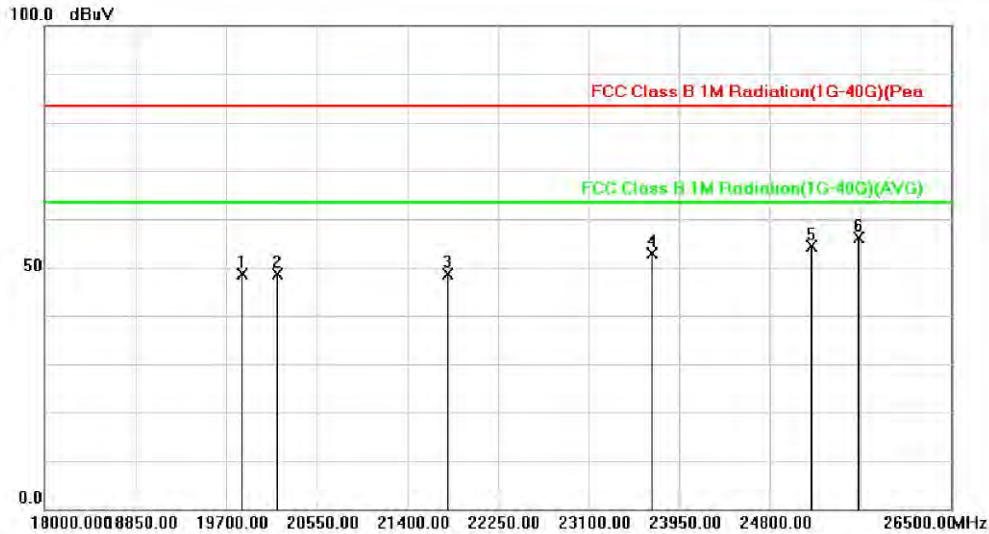
Operation Mode:	Config 1 DATA Link (USB)	Test Date:	Jan. 03, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		18391.000	62.05	-12.61	49.44	83.50	-34.06	peak	
2		19547.000	62.29	-11.41	50.88	83.50	-32.62	peak	
3		21230.000	61.53	-11.59	49.94	83.50	-33.56	peak	
4		22369.000	62.73	-11.30	51.43	83.50	-32.07	peak	
5 *		24052.000	64.81	-11.07	53.74	83.50	-29.76	peak	
6		24443.000	61.98	-10.07	51.91	83.50	-31.59	peak	

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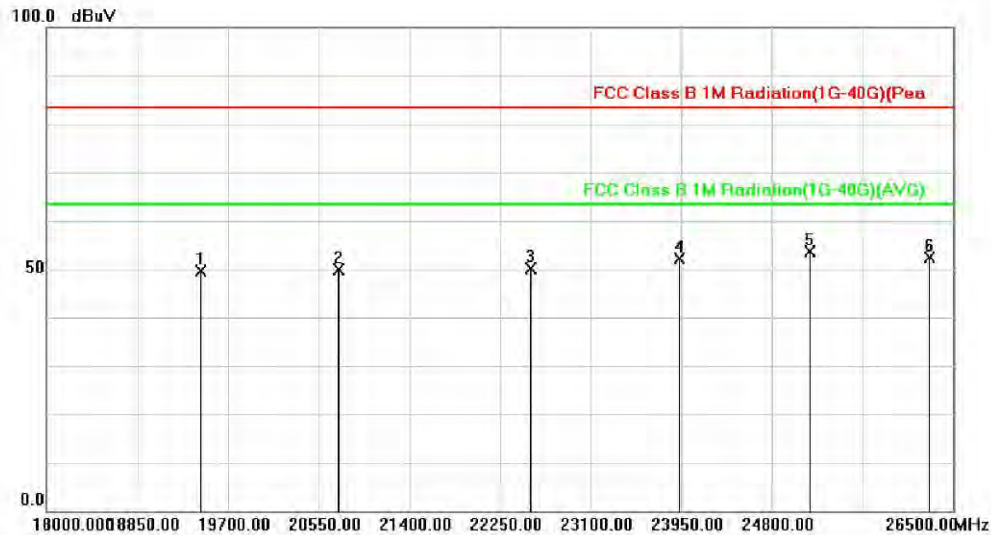
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		19853.000	61.07	-12.49	48.58	83.50	-34.92	peak	
2		20176.000	61.45	-12.70	48.75	83.50	-34.75	peak	
3		21774.000	59.96	-11.32	48.64	83.50	-34.86	peak	
4		23695.000	63.54	-10.73	52.81	83.50	-30.69	peak	
5		25191.000	63.20	-8.71	54.49	83.50	-29.01	peak	
6 *		25633.000	63.83	-7.75	56.08	83.50	-27.42	peak	

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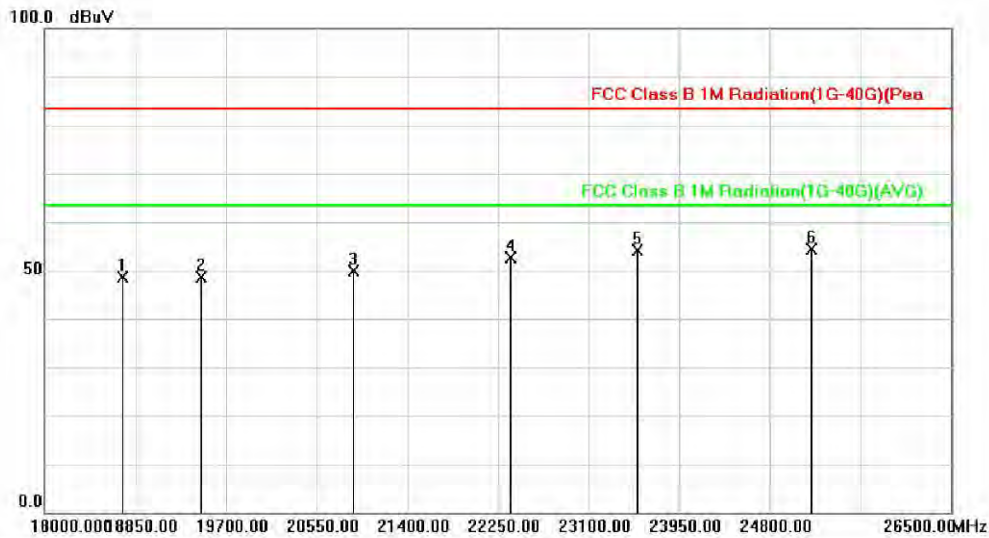
Operation Mode:	Config 2 Recording (Front)	Test Date:	Jan. 03, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		19445.000	61.02	-11.30	49.72	83.50	-33.78	peak	
2		20737.000	61.88	-11.94	49.94	83.50	-33.56	peak	
3		22539.000	61.54	-11.29	50.25	83.50	-33.25	peak	
4		23933.000	63.13	-11.10	52.03	83.50	-31.47	peak	
5 *		25157.000	62.51	-8.85	53.66	83.50	-29.84	peak	
6		26279.000	61.54	-9.20	52.34	83.50	-31.16	peak	

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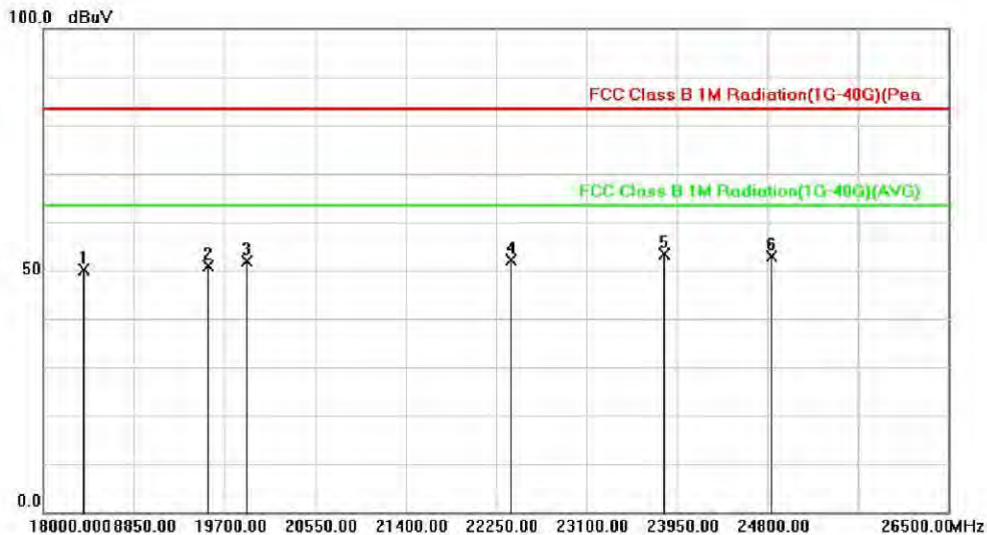
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		18731.000	60.76	-12.14	48.62	83.50	-34.88	peak	
2		19462.000	59.82	-11.28	48.54	83.50	-34.96	peak	
3		20890.000	61.63	-11.80	49.83	83.50	-33.67	peak	
4		22369.000	63.95	-11.30	52.65	83.50	-30.85	peak	
5		23559.000	64.61	-10.52	54.09	83.50	-29.41	peak	
6 *		25191.000	63.20	-8.71	54.49	83.50	-29.01	peak	

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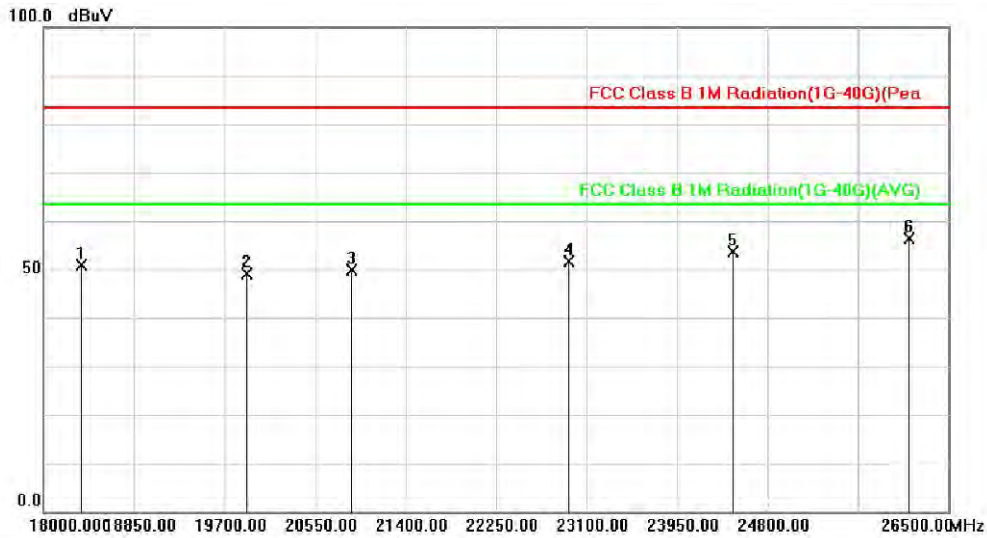
Operation Mode:	Config 2 Recording (Back)	Test Date:	Nov. 21, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		18374.000	62.71	-12.63	50.08	83.50	-33.42	peak	
2		19547.000	62.29	-11.41	50.88	83.50	-32.62	peak	
3		19904.000	64.66	-12.67	51.99	83.50	-31.51	peak	
4		22386.000	63.37	-11.31	52.06	83.50	-31.44	peak	
5 *		23831.000	64.22	-10.94	53.28	83.50	-30.22	peak	
6		24834.000	62.53	-9.65	52.88	83.50	-30.62	peak	

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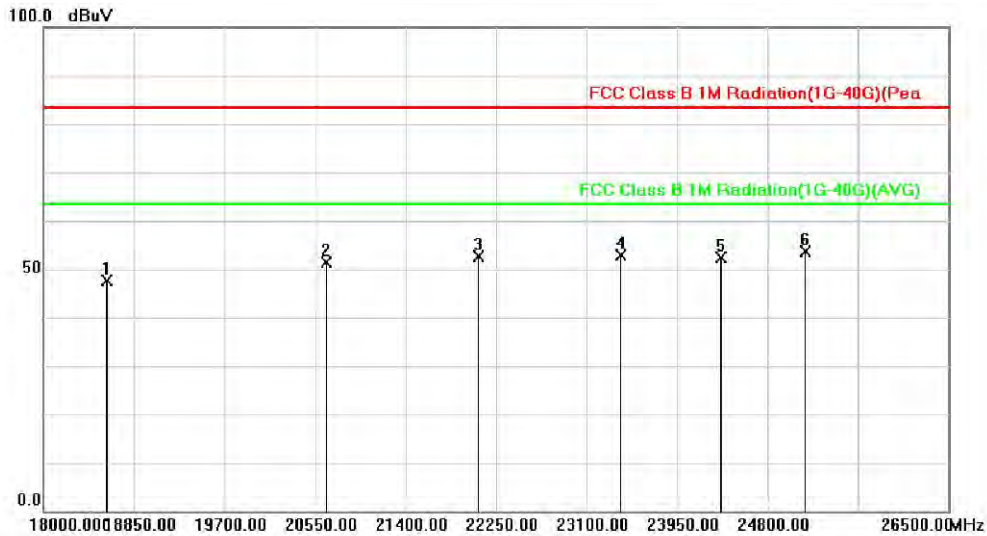
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		18357.000	63.56	-12.65	50.91	83.50	-32.59	peak	
2		19904.000	61.92	-12.67	49.25	83.50	-34.25	peak	
3		20890.000	61.63	-11.80	49.83	83.50	-33.67	peak	
4		22930.000	62.58	-10.87	51.71	83.50	-31.79	peak	
5		24477.000	63.59	-9.98	53.61	83.50	-29.89	peak	
6 *		26126.000	65.35	-8.95	56.40	83.50	-27.10	peak	

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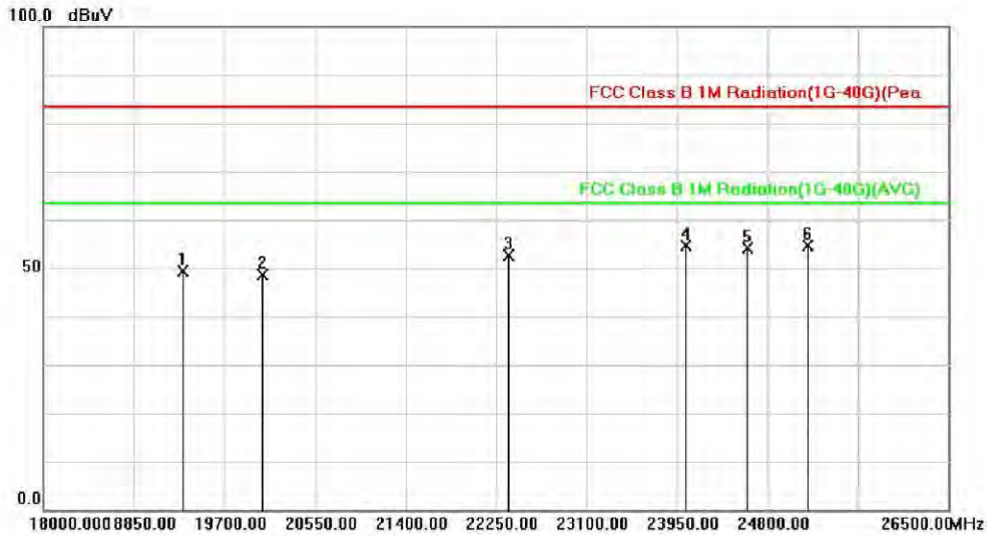
Operation Mode:	Config 2 play recording	Test Date:	Nov. 21, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		18595.000	59.95	-12.31	47.64	83.50	-35.86	peak	
2		20652.000	63.41	-12.00	51.41	83.50	-32.09	peak	
3		22080.000	63.82	-11.25	52.57	83.50	-30.93	peak	
4		23423.000	63.35	-10.48	52.87	83.50	-30.63	peak	
5		24358.000	62.55	-10.28	52.27	83.50	-31.23	peak	
6 *		25157.000	62.51	-8.85	53.66	83.50	-29.84	peak	

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No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment	dBuV	dB	Detector	Comment
1		19309.000	60.93	-11.44	49.49	83.50	-34.01	peak	
2		20057.000	61.47	-12.91	48.56	83.50	-34.94	peak	
3		22369.000	63.95	-11.30	52.65	83.50	-30.85	peak	
4		24035.000	65.77	-11.11	54.66	83.50	-28.84	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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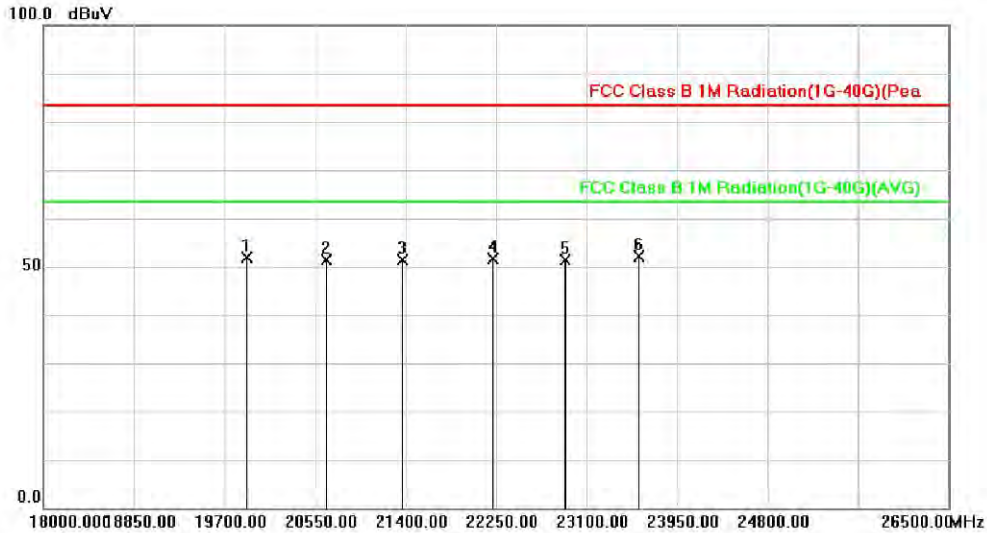
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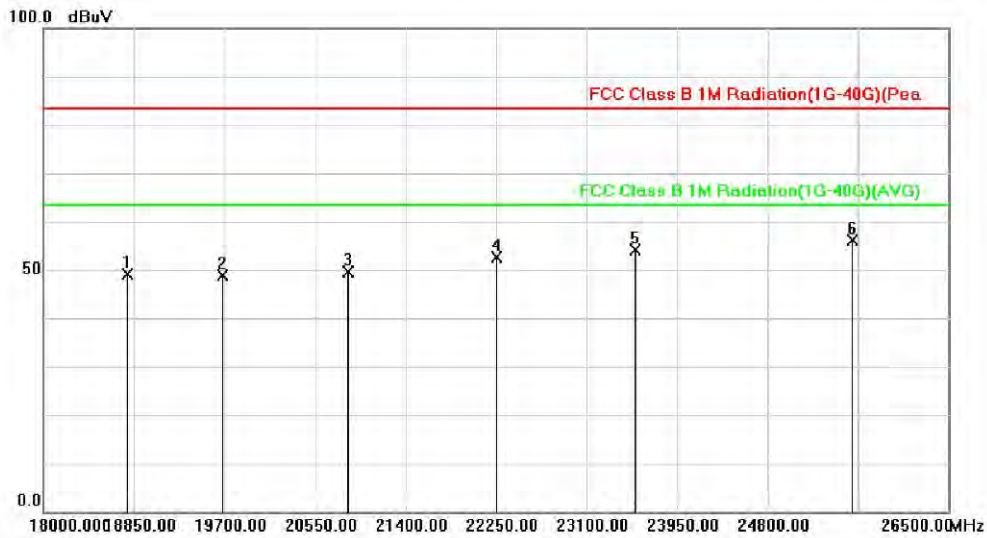
Operation Mode:	Config 2 MP3	Test Date:	Nov. 21, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		19904.000	64.66	-12.67	51.99	83.50	-31.51	peak	
2		20652.000	63.41	-12.00	51.41	83.50	-32.09	peak	
3		21366.000	62.84	-11.52	51.32	83.50	-32.18	peak	
4		22216.000	63.00	-11.27	51.73	83.50	-31.77	peak	
5		22896.000	62.40	-10.91	51.49	83.50	-32.01	peak	
6 *		23593.000	62.75	-10.57	52.18	83.50	-31.32	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		18782.000	61.18	-12.07	49.11	83.50	-34.39	peak	
2		19683.000	60.83	-11.89	48.94	83.50	-34.56	peak	
3		20856.000	61.53	-11.84	49.69	83.50	-33.81	peak	
4		22250.000	63.95	-11.28	52.67	83.50	-30.83	peak	
5		23559.000	64.61	-10.52	54.09	83.50	-29.41	peak	
6 *		25599.000	63.81	-7.66	56.15	83.50	-27.35	peak	

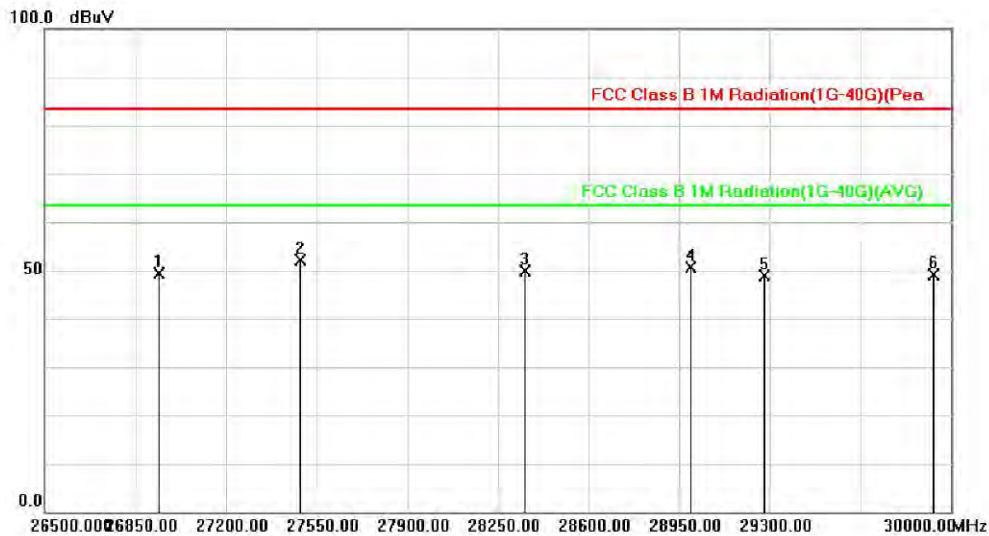
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Above 26.5 – 30 GHz

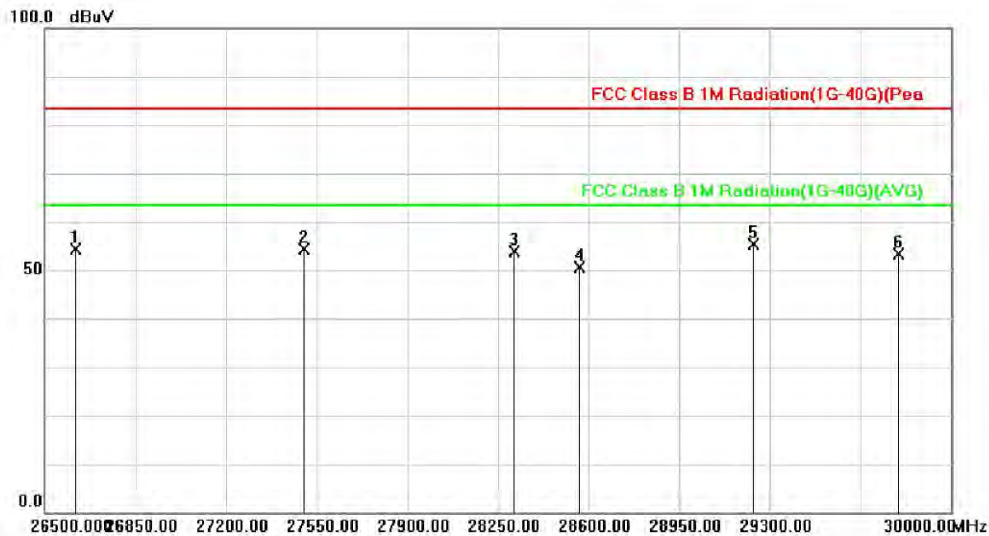
Operation Mode:	Config 1 DATA Link (USB)	Test Date:	Jan. 03, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		26941.000	59.37	-10.07	49.30	83.50	-34.20	peak	
2	*	27487.000	63.01	-10.84	52.17	83.50	-31.33	peak	
3		28355.000	60.49	-10.60	49.89	83.50	-33.61	peak	
4		28992.000	62.90	-12.21	50.69	83.50	-32.81	peak	
5		29279.000	61.13	-12.25	48.88	83.50	-34.62	peak	
6		29930.000	61.41	-12.27	49.14	83.50	-34.36	peak	

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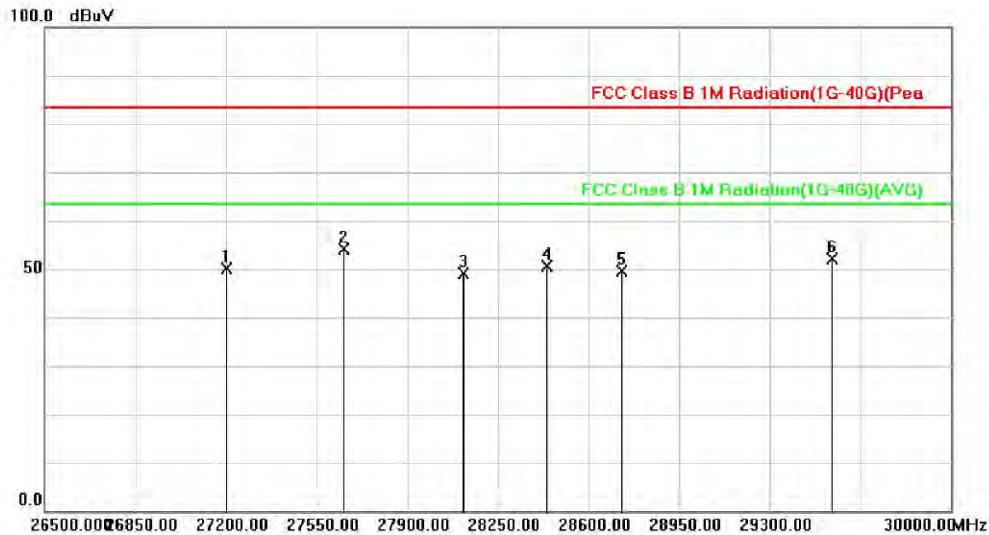
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		26619.000	64.16	-9.69	54.47	83.50	-29.03	peak	
2		27501.000	65.26	-10.86	54.40	83.50	-29.10	peak	
3		28313.000	64.57	-10.68	53.89	83.50	-29.61	peak	
4		28565.000	61.14	-10.57	50.57	83.50	-32.93	peak	
5	*	29237.000	67.61	-12.26	55.35	83.50	-28.15	peak	
6		29797.000	65.54	-12.26	53.28	83.50	-30.22	peak	

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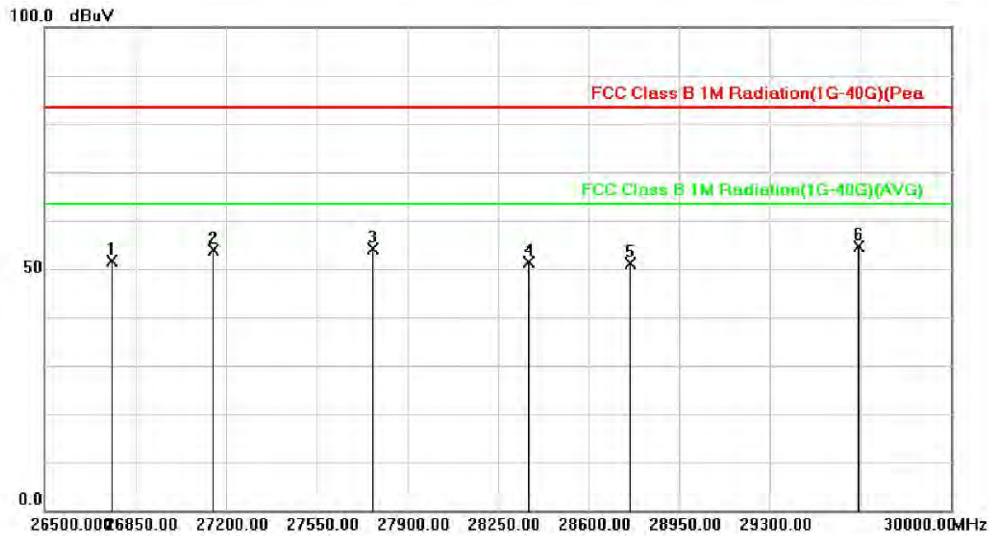
Operation Mode:	Config 2 Recording (Front)	Test Date:	Jan. 03, 2015
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		27200.000	60.48	-10.42	50.06	83.50	-33.44	peak	
2	*	27655.000	65.06	-11.00	54.06	83.50	-29.44	peak	
3		28117.000	60.18	-11.06	49.12	83.50	-34.38	peak	
4		28439.000	60.99	-10.44	50.55	83.50	-32.95	peak	
5		28726.000	60.70	-11.19	49.51	83.50	-33.99	peak	
6		29538.000	64.43	-12.27	52.16	83.50	-31.34	peak	

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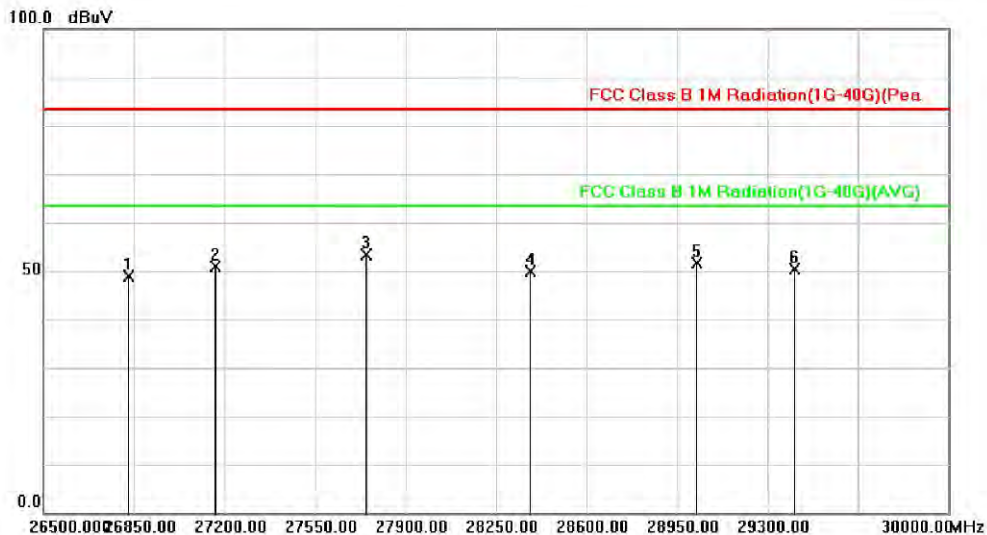
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		26759.000	61.47	-9.85	51.62	83.50	-31.88	peak	
2		27151.000	64.13	-10.35	53.78	83.50	-29.72	peak	
3		27767.000	65.19	-11.09	54.10	83.50	-29.40	peak	
4		28369.000	61.91	-10.57	51.34	83.50	-32.16	peak	
5		28761.000	62.33	-11.32	51.01	83.50	-32.49	peak	
6 *		29643.000	66.84	-12.27	54.57	83.50	-28.93	peak	

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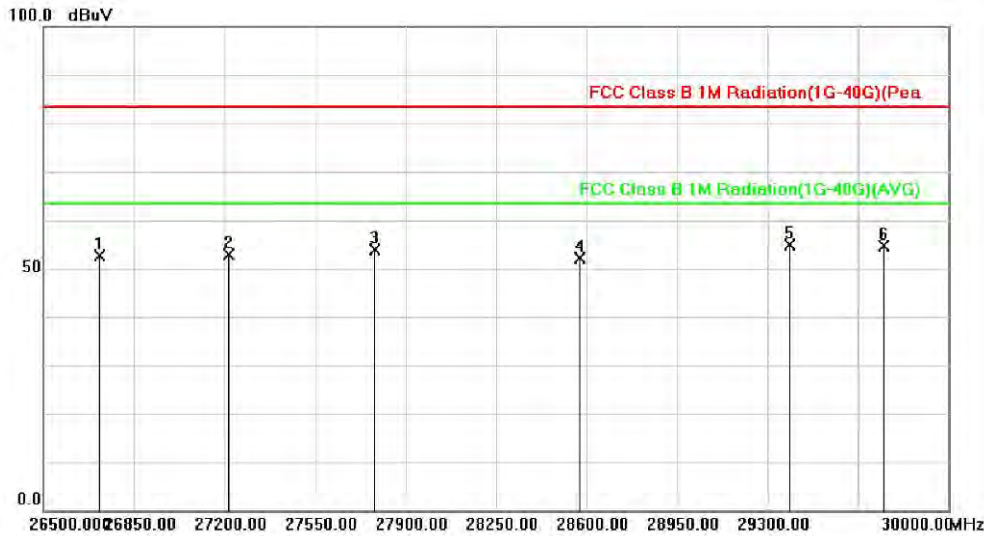
Operation Mode:	Config 2 Recording (Back)	Test Date:	Nov. 21, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		26829.000	58.85	-9.94	48.91	83.50	-34.59	peak	
2		27165.000	61.26	-10.37	50.89	83.50	-32.61	peak	
3	*	27746.000	64.51	-11.07	53.44	83.50	-30.06	peak	
4		28383.000	60.50	-10.55	49.95	83.50	-33.55	peak	
5		29027.000	63.92	-12.24	51.68	83.50	-31.82	peak	
6		29405.000	62.72	-12.27	50.45	83.50	-33.05	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		26717.000	62.46	-9.81	52.65	83.50	-30.85	peak	
2		27214.000	63.37	-10.44	52.93	83.50	-30.57	peak	
3		27781.000	65.06	-11.10	53.96	83.50	-29.54	peak	
4		28572.000	62.60	-10.59	52.01	83.50	-31.49	peak	
5	*	29384.000	67.04	-12.26	54.78	83.50	-28.72	peak	
6		29748.000	66.99	-12.26	54.73	83.50	-28.77	peak	

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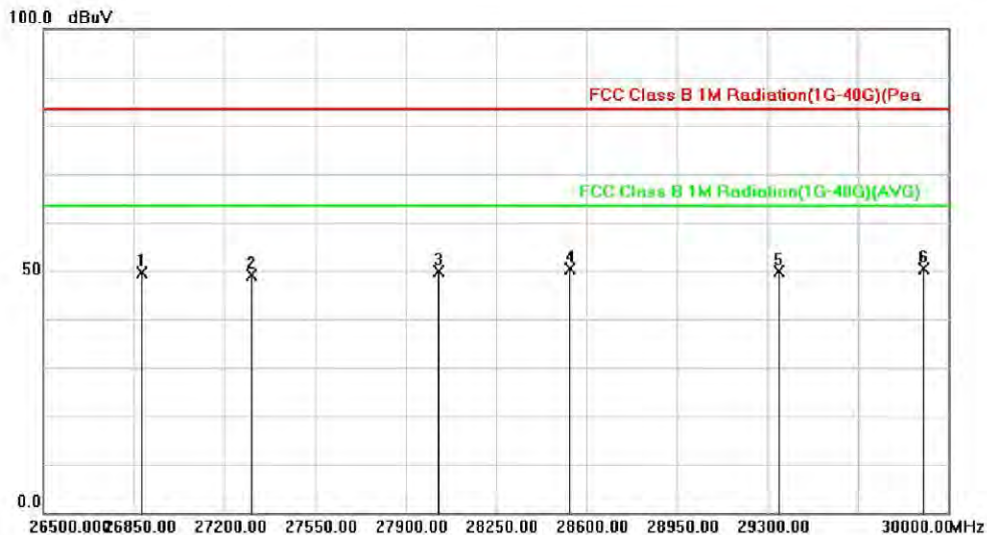
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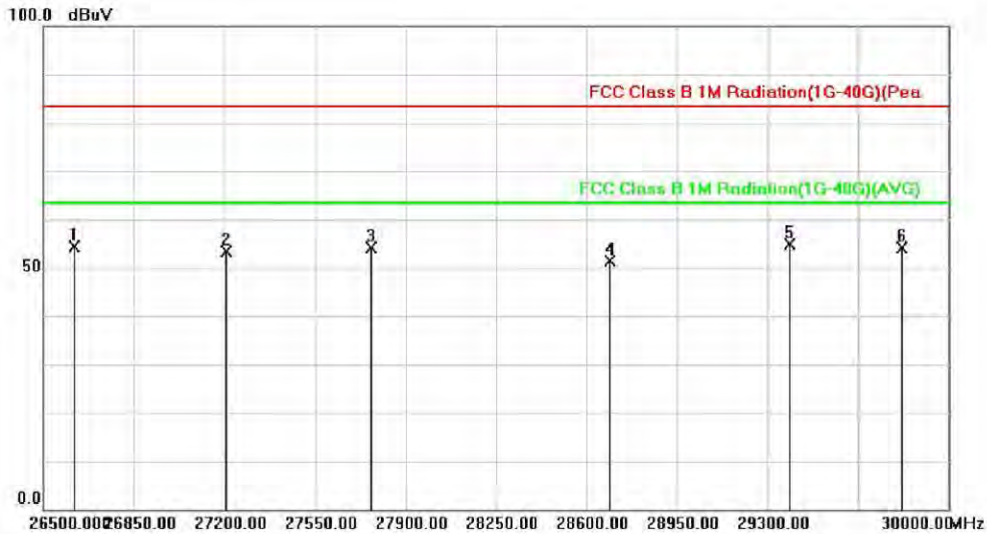
Operation Mode:	Config 2 play recording	Test Date:	Nov. 21, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		26878.000	59.62	-9.99	49.63	83.50	-33.87	peak	
2		27305.000	59.64	-10.57	49.07	83.50	-34.43	peak	
3		28026.000	61.03	-11.24	49.79	83.50	-33.71	peak	
4		28537.000	60.80	-10.46	50.34	83.50	-33.16	peak	
5		29342.000	62.09	-12.26	49.83	83.50	-33.67	peak	
6 *		29902.000	62.68	-12.26	50.42	83.50	-33.08	peak	

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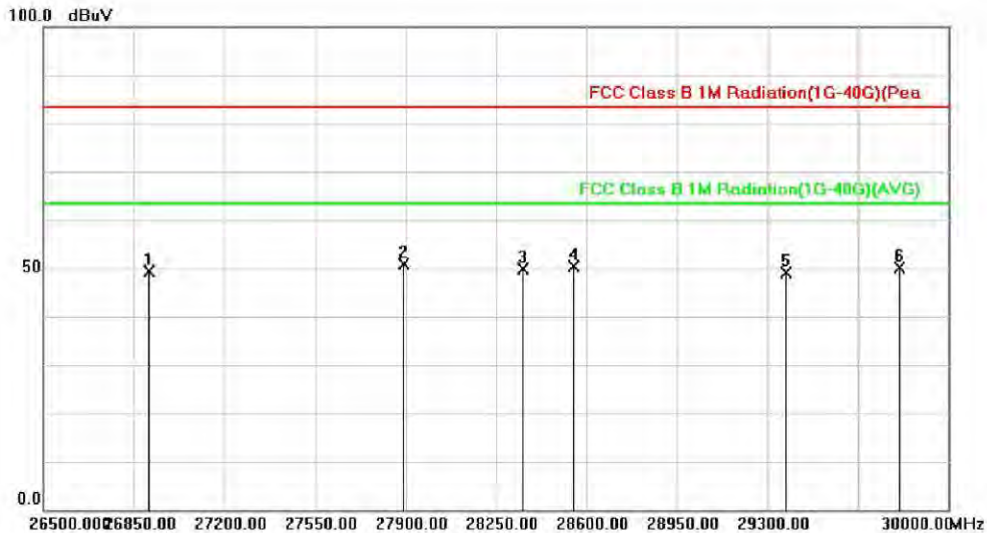
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		26619.000	64.16	-9.69	54.47	83.50	-29.03	peak	
2		27207.000	63.75	-10.43	53.32	83.50	-30.18	peak	
3		27767.000	65.19	-11.09	54.10	83.50	-29.40	peak	
4		28691.000	62.41	-11.06	51.35	83.50	-32.15	peak	
5 *		29384.000	67.04	-12.26	54.78	83.50	-28.72	peak	
6		29818.000	66.33	-12.27	54.06	83.50	-29.44	peak	

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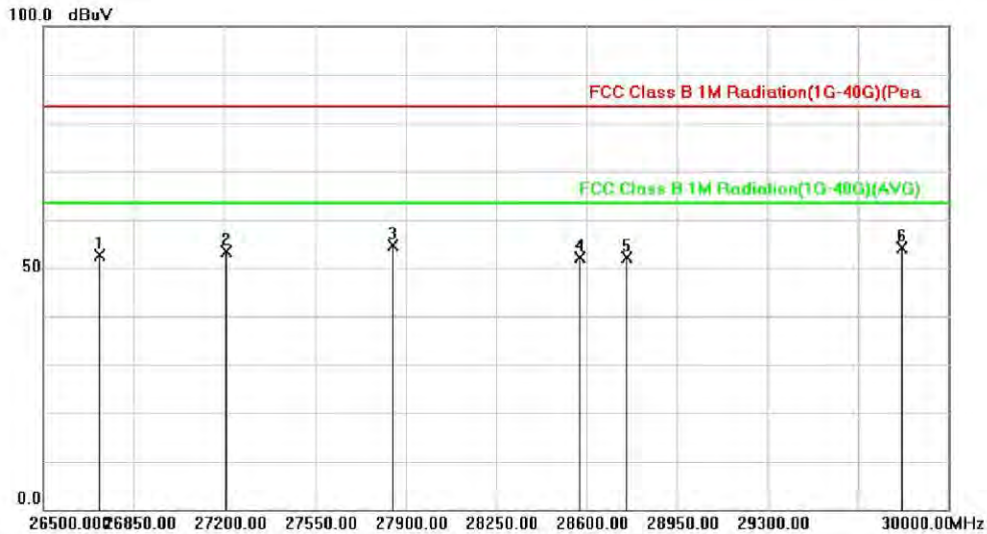
Operation Mode:	Config 2 MP3	Test Date:	Nov. 21, 2014
Tested By:	Eddy Cheng	Pol.:	Ver. and Hor.



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		26906.000	59.48	-10.03	49.45	83.50	-34.05	peak	
2	*	27893.000	62.15	-11.19	50.96	83.50	-32.54	peak	
3		28355.000	60.49	-10.60	49.89	83.50	-33.61	peak	
4		28551.000	60.97	-10.52	50.45	83.50	-33.05	peak	
5		29370.000	61.49	-12.26	49.23	83.50	-34.27	peak	
6		29811.000	62.39	-12.26	50.13	83.50	-33.37	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		26717.000	62.46	-9.81	52.65	83.50	-30.85	peak	
2		27207.000	63.75	-10.43	53.32	83.50	-30.18	peak	
3	*	27851.000	65.70	-11.16	54.54	83.50	-28.96	peak	
4		28572.000	62.60	-10.59	52.01	83.50	-31.49	peak	
5		28754.000	63.33	-11.29	52.04	83.50	-31.46	peak	
6		29818.000	66.33	-12.27	54.06	83.50	-29.44	peak	

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