

FCC CERTIFICATION REPORT

Test Report No.: EM/2011/70053

Applicant : Motorola Mobility, Inc.

Address of Applicant : No. 1 Wang Jing East Road, Chao Yang District
Beijing, China 100102

Manufacturer : Arima Communications Corp.

Address of Manufacturer : 6F., No. 866, Jhongjheng Rd., Jhonghe Dist., New
Taipei City 23586, Taiwan

Equipment Under Test (EUT) :

Product Name: Avon TV

Brand Name : Motorola

Model Number : EX139

FCC ID : IHDT56MQ3

Added Model(s) : N/A

Standards : FCC Part 15:2010, Subpart B, Class B

Date of Receipt : Jul. 13, 2011

Date of Test : Jul. 13 ~ Aug. 02, 2011

Date of Issue(First) : Aug. 20, 2011

Test Result :	PASS
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In the configuration tested, the EUT complied with the standards specified above.

Remarks :

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Test By:

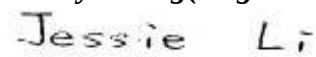


Date

Aug. 20, 2011

Eddy Cheng(Engineer)

Prepared By:



Date

Aug. 20, 2011

Jessie Li(Clerk)

Approved By



Date

Aug. 20, 2011

Ion Lin(Assistant Manager)

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Version

Version No.	Description	Date
00	Original report	Aug. 20, 2011

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1. General Information

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Manufacturer : Arima Communications Corp.

Address of Manufacturer : 6F., No. 866, Jhongjheng Rd., Jhonghe Dist., New
Taipei City 23586, Taiwan

1.2 General Description of EUT

Product Name: Avon TV

Brand Name : Motorola

Model Number: EX139

FCC ID : IHDT56MQ3

Added Model(s) : N/A

Model Difference : N/A

Highest Frequency : 2.4GHz

Filing Type : Certification

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Bluetooth:

Frequency Range:	2402 – 2480MHz
Bluetooth Version:	V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK)
Channel number:	79 channels
Modulation type:	Frequency Hopping Spread Spectrum
Transmit Power:	11.50 dBm
Dwell Time:	$\leq 0.4s$
Operating Mode:	Point-to-Point
Antenna Designation:	inverted-F, 0.33 dBi.

This test report applies for Bluetooth function.

GSM:

Cellular Phone Standards Frequency Range and Power:	Operating Frequency		Rated Power
	GSM/GPRS 850, Class 10	824.2 MHz– 848.8 MHz	33 dBm
	GSM/GPRS 1900, Class 10	1850.2MHz – 1909.8MHz	30 dBm
Type of Emission:	GSM850: 247KGXW, GSM1900: 251KGXW GPRS850: 246KGXW, GPRS1900: 249KGXW		
Hardware Version:	P1 ~ PCR		
Software Version:	AVONTV_G_07.01.02RDD		
IMEI:	354639030000589		

This test report applies for GSM/GPRS 850/1900.

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Avon TV					
		Config 1	Config 2	Config 3	Config 4
	Applicable standard (EN 30 489-1+)	FCC Part 15B			
	Accessories	UE + Battery + AC Adaptor + SHF	UE + Battery + AC Adaptor + SHF	UE + Battery + USB Cable+SHF	UE + Battery + AC Adaptor + SHF
		Speech		DATA Link	CAMERA
		BT	FM		BT
EN No.	Description				
8.2	radiated emission	GSM850 & GSM1900	FM88.1 & 98.1& 107.9	DATA Link	Video, play music, recording,MP3
8.3	conducted emission (DC Power)	N/A	N/A	NA	N/A
8.4	conducted emission (AC Power)	GSM850 & GSM1900	FM88.1 & 98.1& 107.9	DATA Link	Video, play music, recording,MP3
8.5	harmonic current emissions	N/A	N/A	NA	N/A
8.6	voltage fluctuations and flicker	N/A	N/A	NA	N/A
8.7	Telecommunication emission	N/A	N/A	N/A	N/A
9.2	RF electromagnetic field (80 MHz to 2 700 MHz)	N/A	N/A	N/A	N/A
9.3	electrostatic discharge	N/A	N/A	N/A	N/A
9.4	fast transients common mode	N/A	N/A	NA	N/A
9.5	RF common mode 0,15 MHz to 80 MHz	N/A	N/A	N/A	N/A
9.6	transients and surges	N/A	N/A	N/A	N/A
9.7	voltage dips and interruptions	N/A	N/A	NA	N/A
9.8	surges, line to line and line to ground	N/A	N/A	NA	N/A

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1.3 Details of EUT

Tested Power Supply : 1. Adapter → Input : AC 100-240V;50/60Hz;
Output : DC 5.0V/550mA
Model No. : DCH3-050US-0303, Supplier: Motorola
2. Battery → DC 3.7V
Model No. : BQ50, Supplier: Motorola
Modes/Function : 1. Config 1 : GSM850+BT.
2. Config 1 : GSM1900+BT.
3. Config 2 : FM.
4. Config 3 : Data link.
5. Config 4 : Video, play music, recording, MP3.
Worst case : Config 1 & Config 3.

1.4 Operation Procedure

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

1.5 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
PC	Lenovo	D74	R8BOT2A
USB Mouse	HP	M-UAE96	390938-001
Monitor	HP	L1706	CND7122SDX
Printer	HP	DJ3820	CN34L181B1
Signal Generator	Levear	VP-8194D	0821170LA
Radio Communication Analyzer	R&S	CMU200	111787

1.6 Modification List

No modification by SGS Taiwan Electronics & Communication Laboratory.

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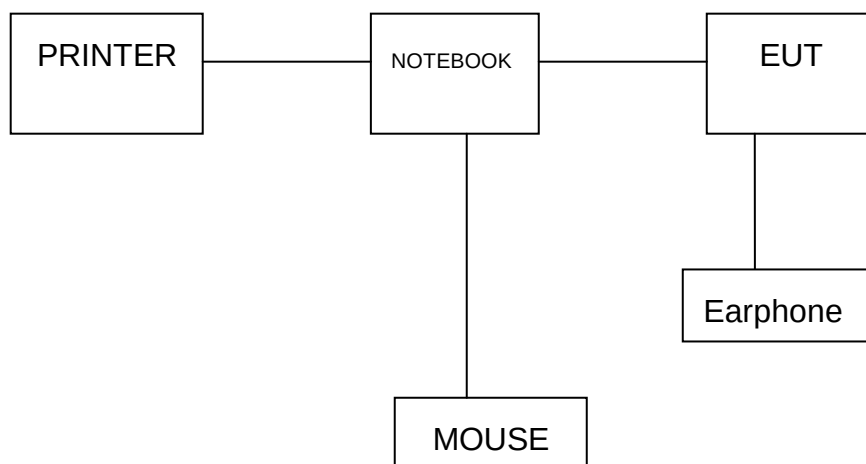
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1.7 Cable List

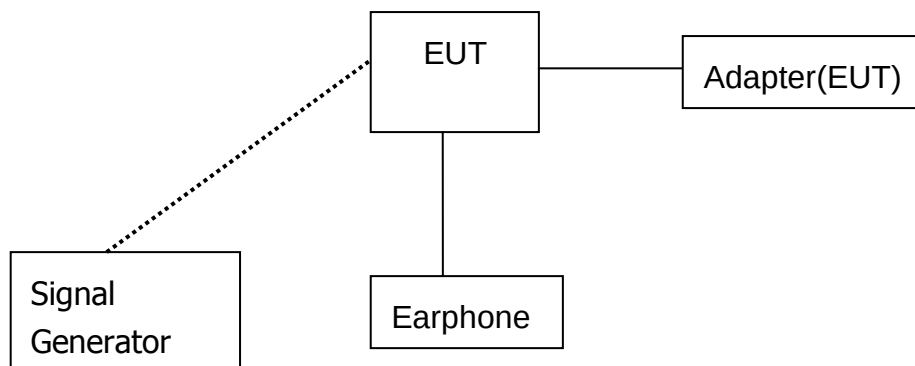
Cable Type	Length	Shield
USB Cable(No core)	1.3m	Shielding
Earphone Cable	1.57m	Non-shielding
Output Power Cable	1.9m	Non-shielding

1.8 Test Set-Up Configuration

PC Mode



FM Mode



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1.9 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.

1.10 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

1.11 Summary of Results

Highest Emission					
Standard	Test Type	Result	Phase/Polar.	Frequency (MHz)	Margin(dB)
FCC Part 15 Subpart B Class B/CISPR 22	Conducted Emission	PASS	Line	0.1934	-10.89(QP)
			Neutral	0.1750	-10.85(QP)
	Radiated Emission	PASS	Ver.	56.8500	-3.01(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.

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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.

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2.4. Test of Conducted Emission

2.4.1 Test Equipments

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
EMI Test Receiver	ROHDE&SCHWARZ	ESCS 30	828985/004	Sep. 23, 2010	Sep. 22, 2011
Coaxial Cables	N/A	WK CE Cable	N/A	Nov. 27, 2010	Nov. 26, 2011
L.I.S.N	Rolf-Heine	NNB-2/16Z	99012	Mar. 31, 2011	Mar. 30, 2012
L.I.S.N	FCC	FCC-LISN-50/250-25-2-01	04034	Mar. 31, 2011	Mar. 30, 2012
Software	Farad	EZ-EMC-VER2A1.1(USB)	N/A	N/A	N/A

2.4.2 Test Site

SGS Taiwan LTD. Electronics & Communication Laboratory
No.134, Wu Kung Road. Wuku Industrial Zone, Taipei County 248, Taiwan (R.O.C.)

2.4.3 Operating Environment

Temperature : 23 degree C

Humidity : 57 %RH

Atmospheric Pressure : 996 mBar

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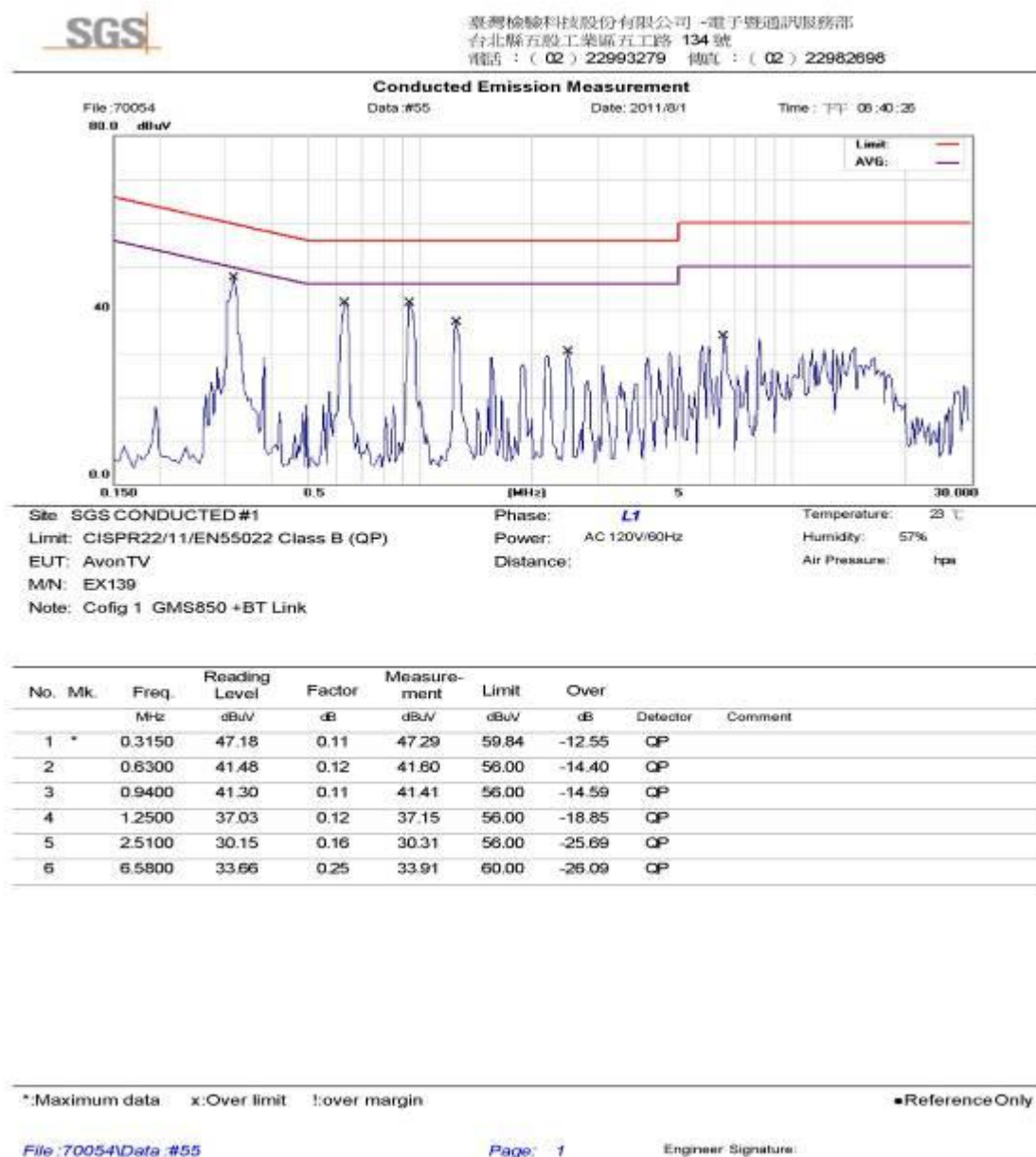
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2.4.4 Measurement Data

Config 1 : GSM850+BT

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電話 : (02) 22993279 傳真 : (02) 22982698

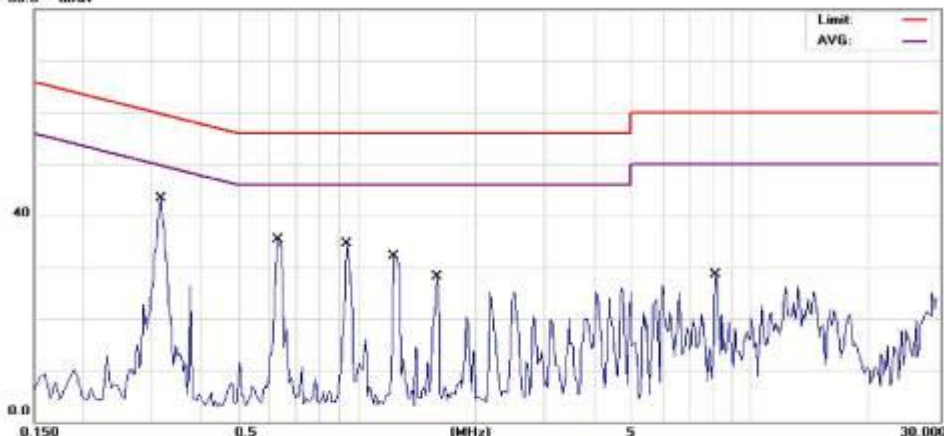
Conducted Emission Measurement

File: 70054
00.0 dBuV

Data: #54

Date: 2011/8/1

Time: 下午 08:38:34



Site: SGS CONDUCTED #1

Limit: CISPR22/11/EN55022 Class B (QP)

EUT: AvonTV

M/N: EX139

Note: Config 1 GMS850 +BT Link

Phase: N

Power: AC 120V/60Hz

Distance:

Temperature: 23 °C

Humidity: 57%

Air Pressure: hpa

No.	Mk.	Freq.	Reading	Factor	Measure-	Limit	Over		
		MHz	dBuV	dB	ment	dBuV	dB	Detector	Comment
1	*	0.3150	43.16	0.15	43.31	59.84	-16.53	QP	
2		0.6300	35.20	0.16	35.36	56.00	-20.64	QP	
3		0.9400	34.40	0.15	34.55	56.00	-21.45	QP	
4		1.2400	31.94	0.16	32.10	56.00	-23.90	QP	
5		1.6000	27.98	0.17	28.15	56.00	-27.85	QP	
6		8.1800	28.17	0.36	28.53	60.00	-31.47	QP	

*:Maximum data x:Over limit !:over margin

•Reference Only

File: 70054\Data: #54

Page: 1

Engineer Signature:

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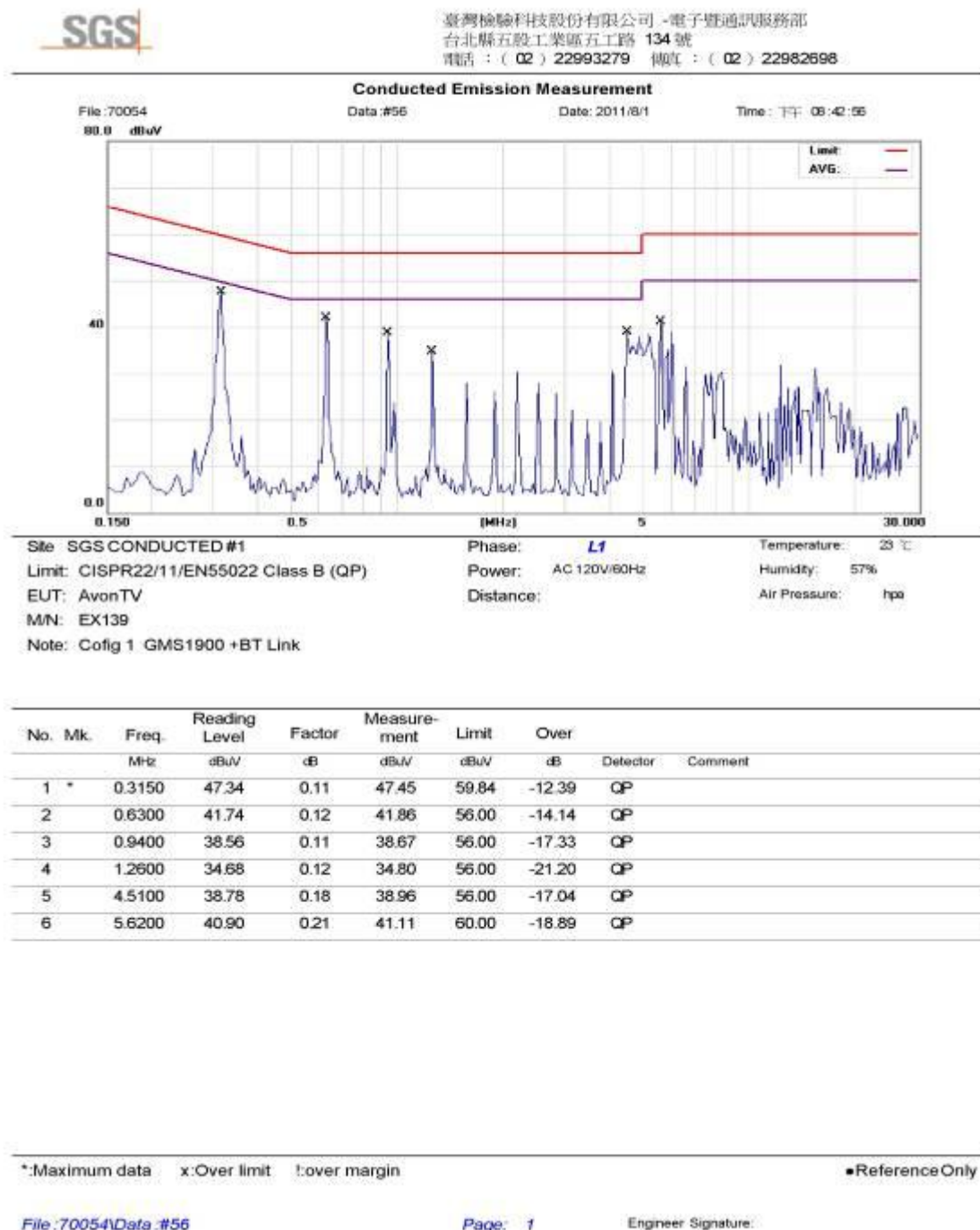
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Config 1 : GSM1900+BT

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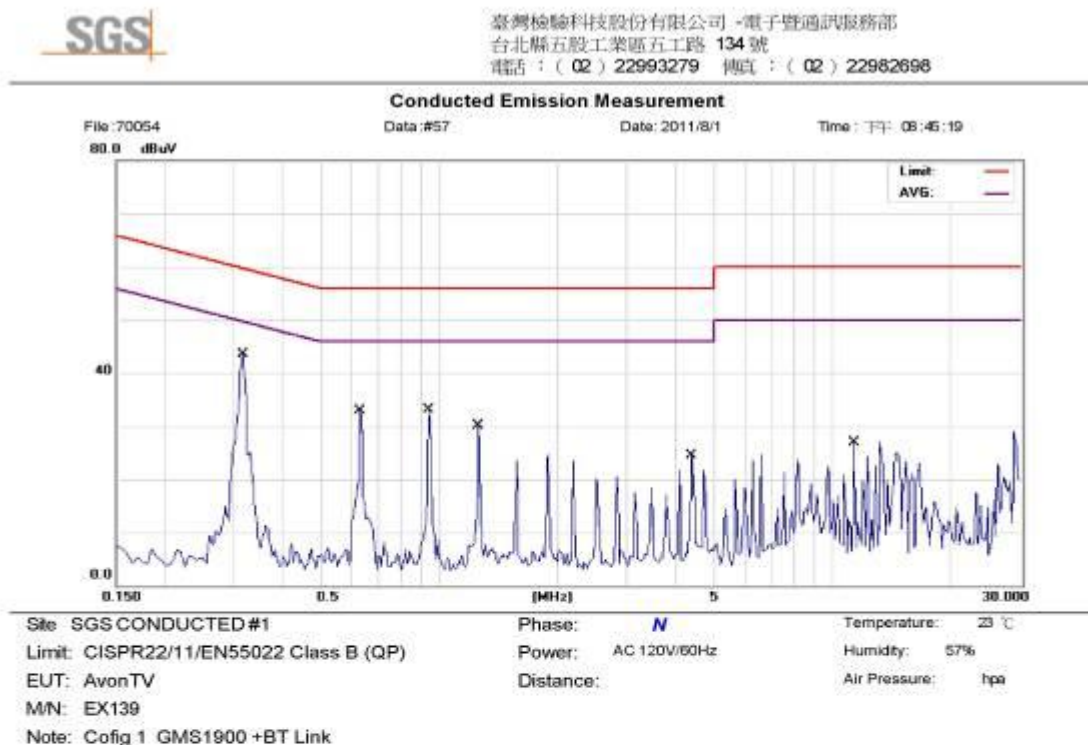
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No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.3150	43.26	0.15	43.41	59.84	-16.43	QP	
2		0.6300	32.67	0.16	32.83	56.00	-23.17	QP	
3		0.9400	32.91	0.15	33.06	56.00	-22.94	QP	
4		1.2600	29.92	0.16	30.08	56.00	-25.92	QP	
5		4.4000	24.31	0.21	24.52	56.00	-31.48	QP	
6		11.3200	26.48	0.47	26.95	60.00	-33.05	QP	

*:Maximum data x:Over limit !:over margin

●Reference Only

File: 70054\Data: #57

Page: 1

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Config 3 : Data link

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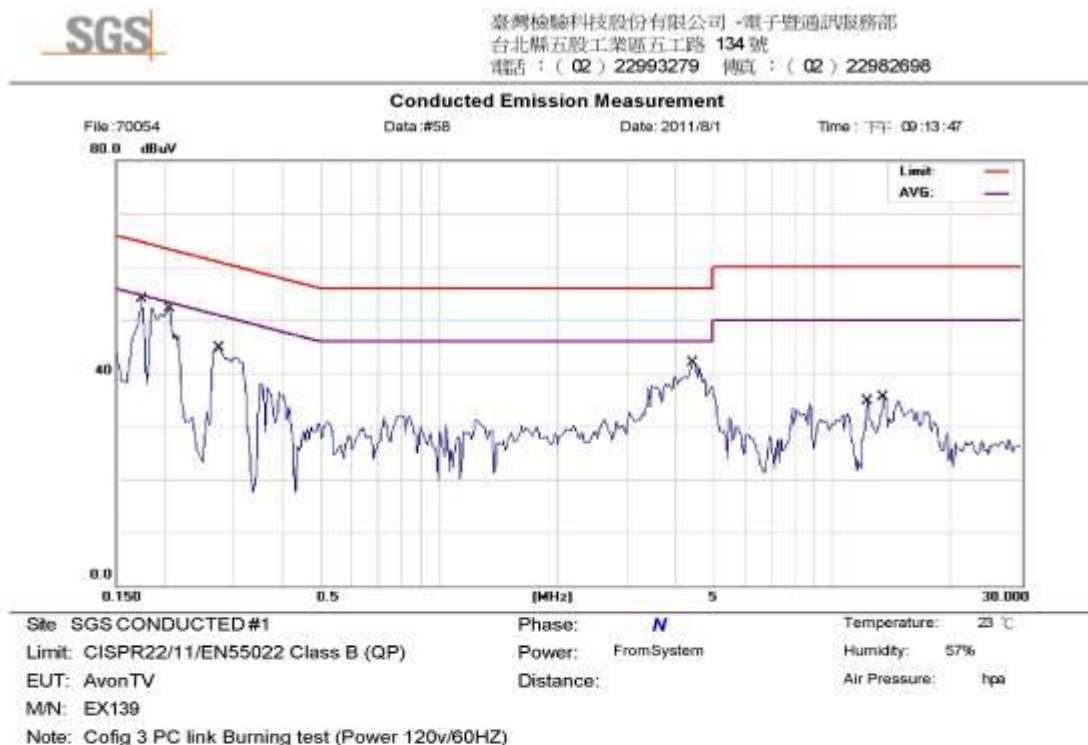
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No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1750	53.70	0.17	53.87	64.72	-10.85	QP	
2		0.2050	51.86	0.16	52.02	63.41	-11.39	QP	
3		0.2750	44.53	0.16	44.69	60.97	-16.28	QP	
4		4.4200	41.72	0.21	41.93	56.00	-14.07	QP	
5		12.2800	34.16	0.47	34.63	60.00	-25.37	QP	
6		13.5400	34.99	0.47	35.46	60.00	-24.54	QP	

*:Maximum data x:Over limit !:over margin

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File: 70054\Data: #58

Page: 1

Engineer Signature:

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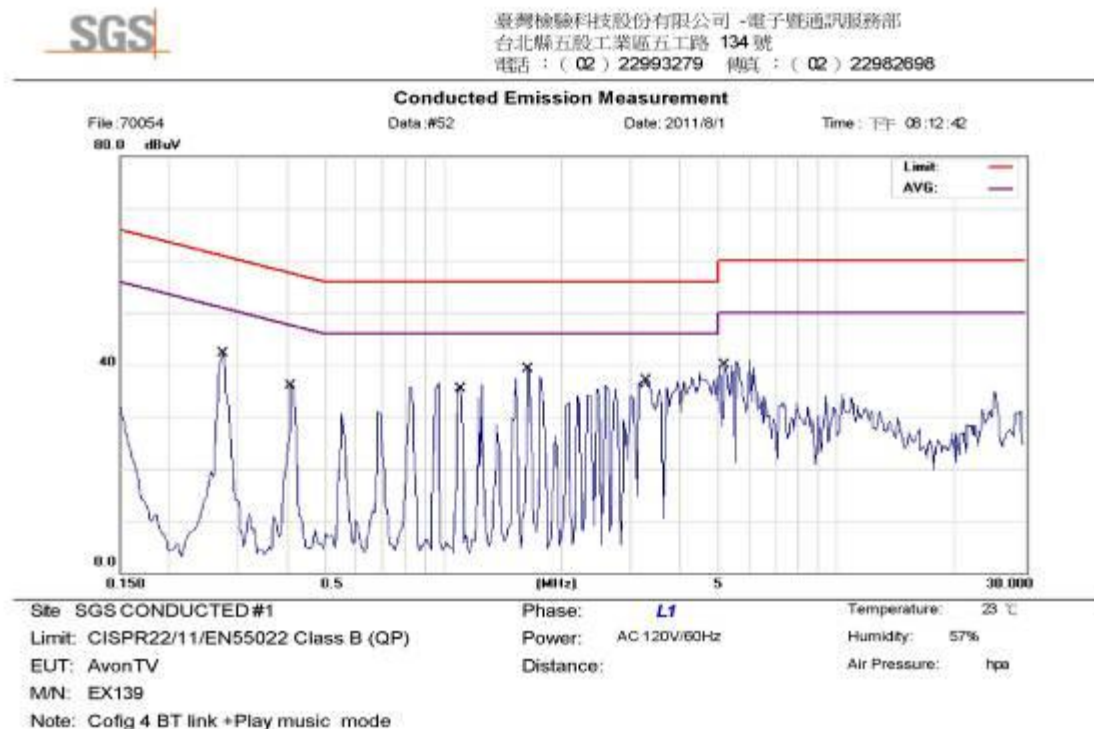
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Config 4 : Play music

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No.	Mk.	Freq. MHz	Reading Level dBμV	Factor dB	Measure- ment dBμV	Limit dBμV	Over dB	Detector	Comment
1		0.2750	41.90	0.12	42.02	60.97	-18.95	QP	
2		0.4100	35.74	0.12	35.86	57.85	-21.79	QP	
3		1.1100	35.20	0.11	35.31	56.00	-20.69	QP	
4	*	1.6400	38.91	0.14	39.05	56.00	-16.95	QP	
5		3.2800	36.65	0.16	36.81	56.00	-19.19	QP	
6		5.2000	39.64	0.19	39.83	60.00	-20.17	QP	

*:Maximum data x:Over limit l:over margin

●Reference Only

File: 70054\Data: #52

Page: 1

Engineer Signature:

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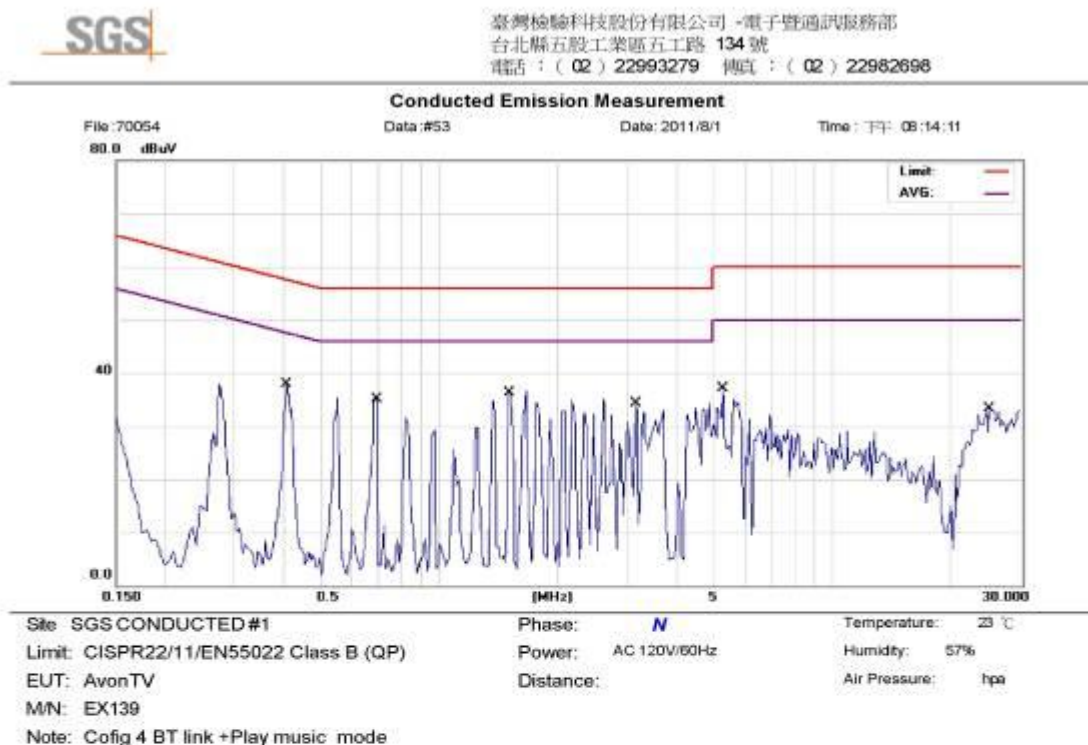
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No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4100	37.72	0.16	37.88	57.65	-19.77	QP	
2		0.6900	35.04	0.16	35.20	56.00	-20.80	QP	
3	*	1.5100	36.08	0.17	36.25	56.00	-19.75	QP	
4		3.1700	34.01	0.20	34.21	56.00	-21.79	QP	
5		5.2600	36.88	0.23	37.11	60.00	-22.89	QP	
6		25.1400	32.95	0.36	33.31	60.00	-26.69	QP	

*:Maximum data x:Over limit !:over margin

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Page: 1

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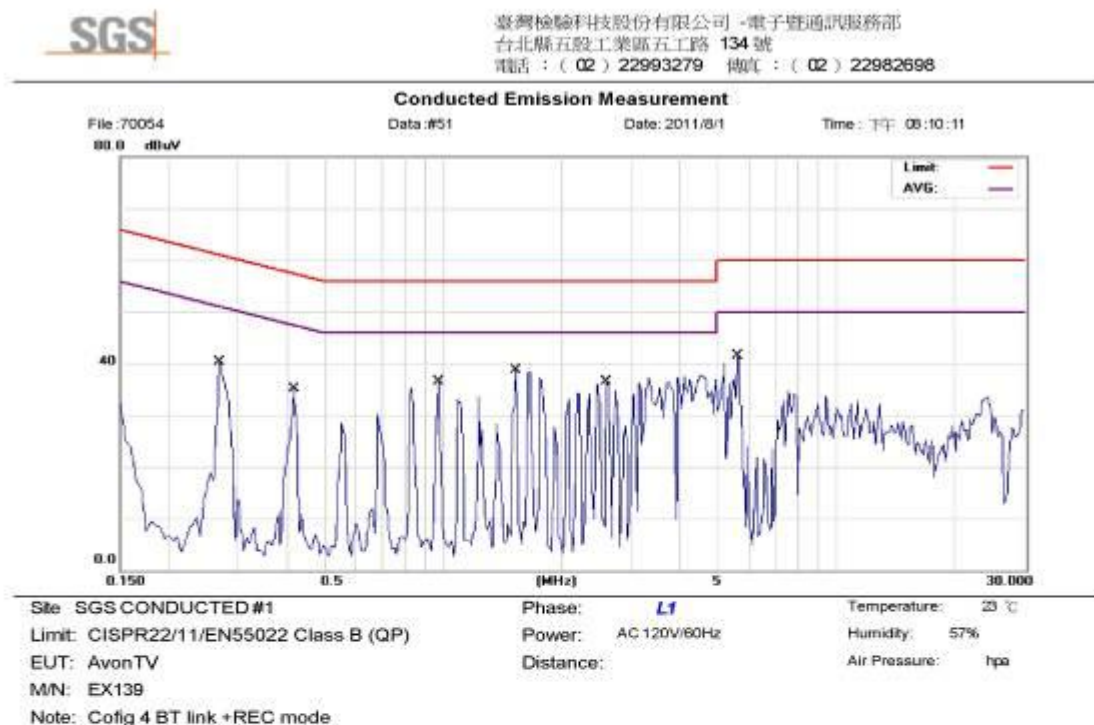
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Config 4 : REC

L



No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2700	40.23	0.12	40.35	61.12	-20.77	QP	
2		0.4150	34.95	0.12	35.07	57.55	-22.48	QP	
3		0.9700	36.42	0.11	36.53	56.00	-19.47	QP	
4	*	1.5300	38.49	0.14	38.63	56.00	-17.37	QP	
5		2.6000	36.35	0.16	36.51	56.00	-19.49	QP	
6		5.6200	41.30	0.21	41.51	60.00	-18.49	QP	

*:Maximum data x:Over limit !:over margin

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File : 70054\Data : #51

Page : 1

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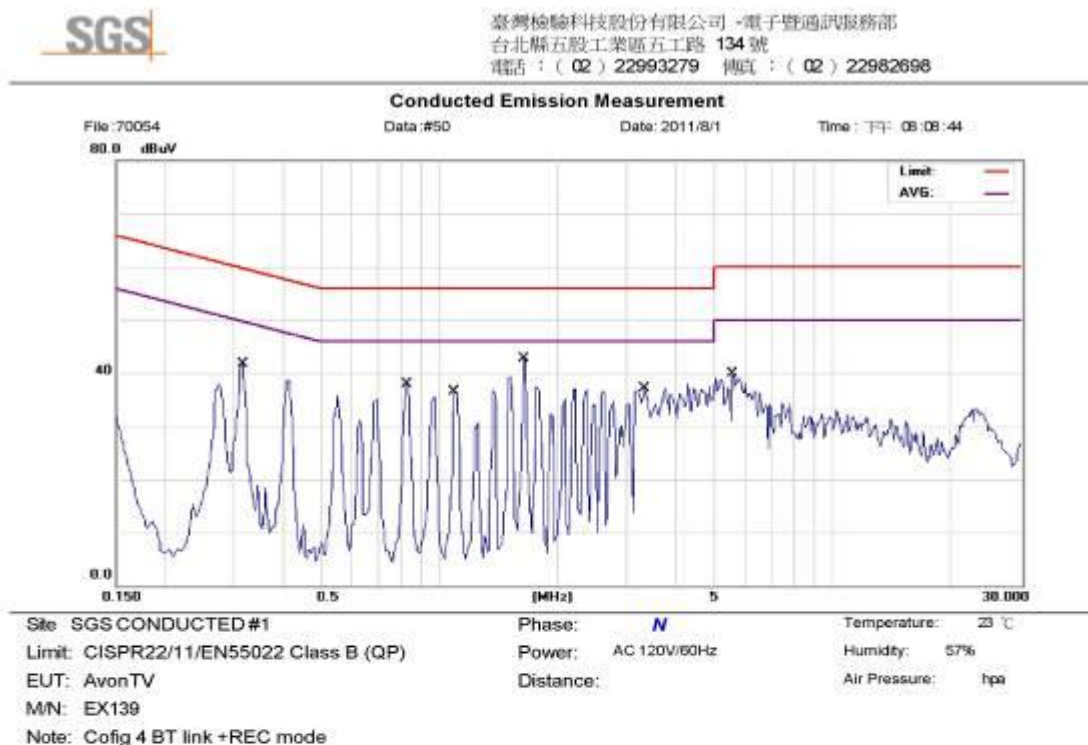
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No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3150	41.62	0.15	41.77	59.84	-18.07	QP	
2		0.8300	37.72	0.15	37.87	56.00	-18.13	QP	
3		1.0900	36.41	0.15	36.56	56.00	-19.44	QP	
4	*	1.6400	42.55	0.17	42.72	56.00	-13.28	QP	
5		3.3300	36.84	0.20	37.04	56.00	-18.96	QP	
6		5.5800	39.68	0.24	39.92	60.00	-20.08	QP	

*:Maximum data x:Over limit !:over margin

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File: 70054\Data: #50

Page: 1

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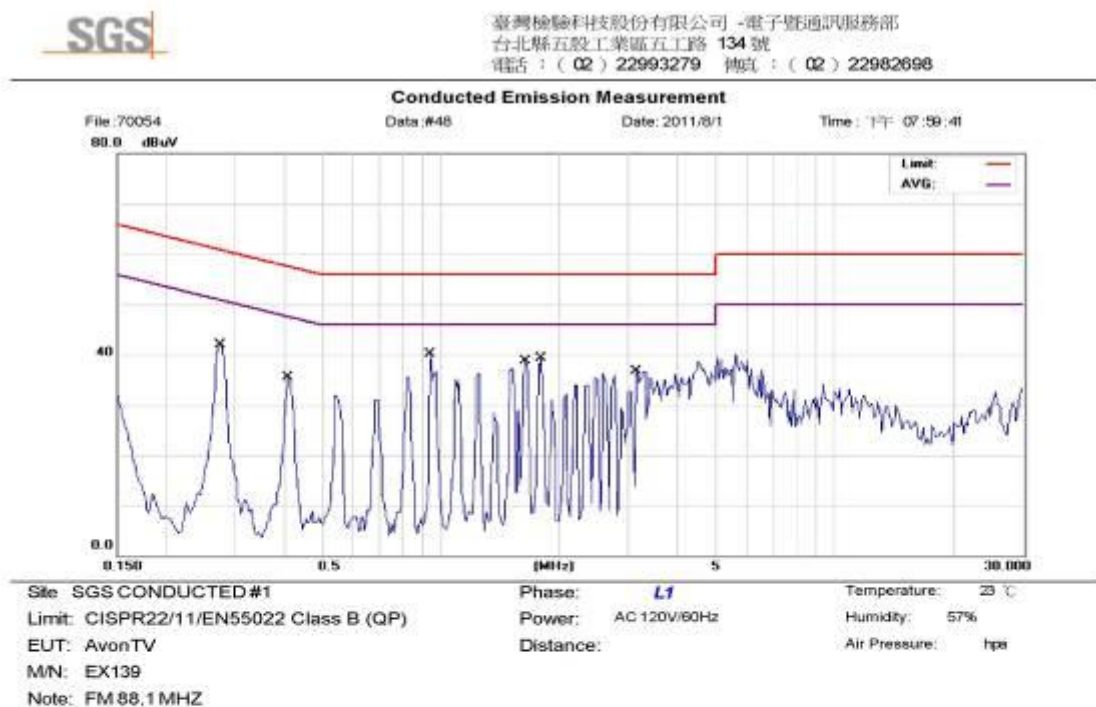
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Config 2 : FM 88.1MHz

L



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2750	41.84	0.12	41.96	60.97	-19.01	QP	
2		0.4100	35.43	0.12	35.55	57.65	-22.10	QP	
3	*	0.9400	40.07	0.11	40.18	56.00	-15.82	QP	
4		1.6400	38.50	0.14	38.64	56.00	-17.36	QP	
5		1.8000	39.25	0.14	39.39	56.00	-16.61	QP	
6		3.1400	36.47	0.16	36.63	56.00	-19.37	QP	

*:Maximum data x:Over limit !:over margin

•Reference Only

File : 70054 \ Data : #48

Page: 1

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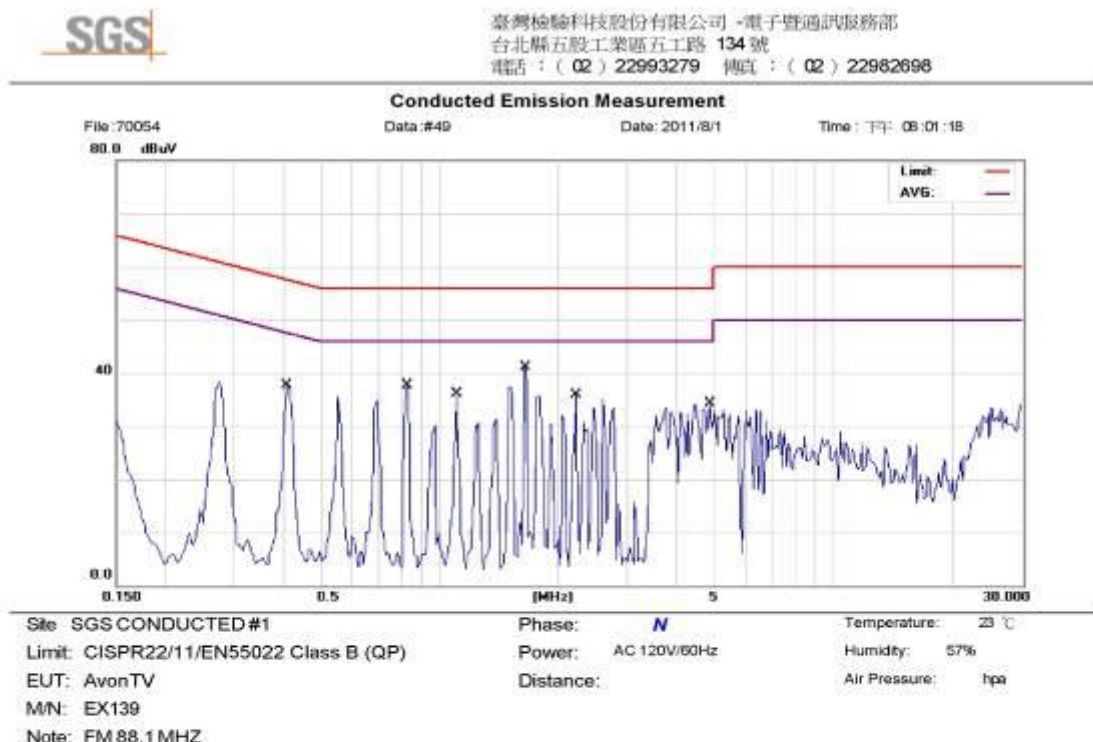
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No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4100	37.58	0.16	37.74	57.65	-19.91	QP	
2		0.8300	37.46	0.15	37.61	56.00	-18.39	QP	
3		1.1000	35.87	0.15	36.02	56.00	-19.98	QP	
4	*	1.6600	40.91	0.17	41.08	56.00	-14.92	QP	
5		2.2200	35.80	0.18	35.98	56.00	-20.02	QP	
6		4.8500	34.11	0.22	34.33	56.00	-21.67	QP	

*:Maximum data x:Over limit !:over margin

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File: 70054\Data: #49

Page: 1

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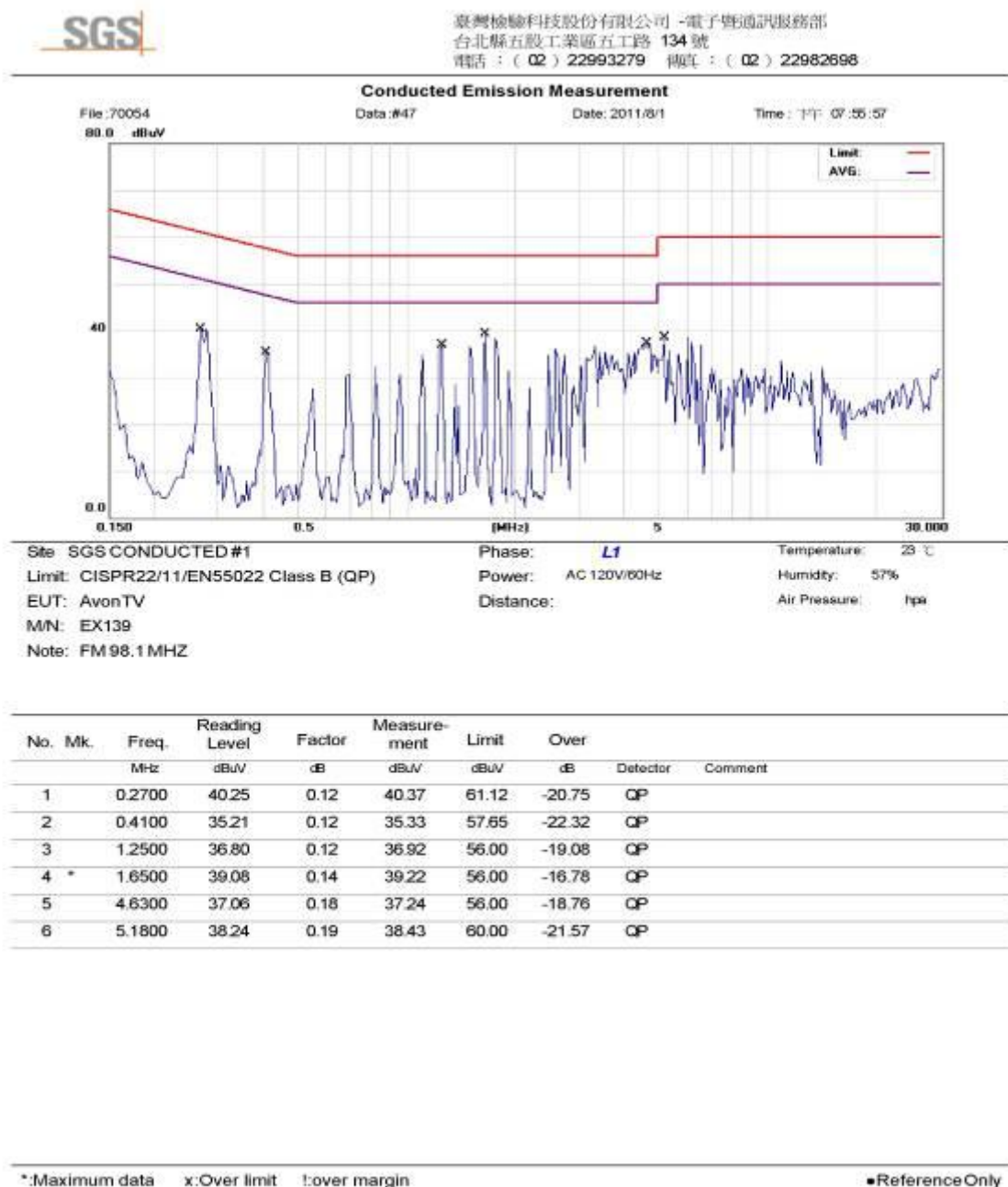
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Config 2 : FM 98.1MHz

L



File : 70054\Data : #47

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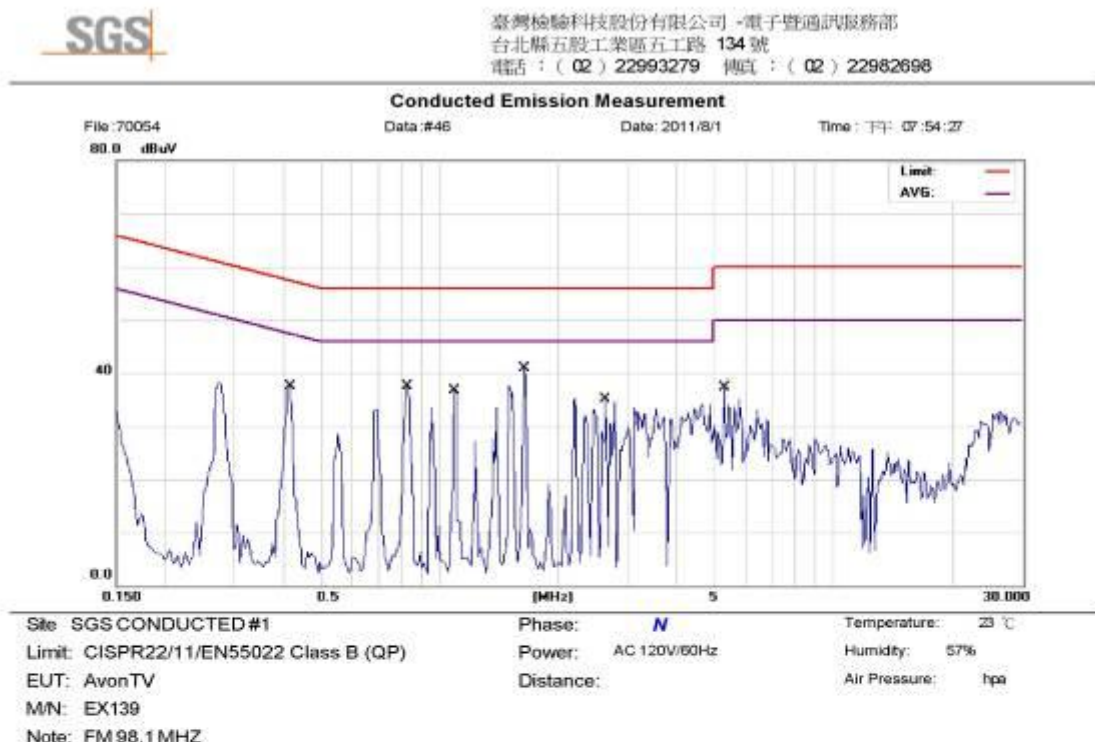
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No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4150	37.32	0.16	37.48	57.55	-20.07	QP	
2		0.8300	37.32	0.15	37.47	56.00	-18.53	QP	
3		1.0900	36.53	0.15	36.68	56.00	-19.32	QP	
4	*	1.6400	40.82	0.17	40.99	56.00	-15.01	QP	
5		2.6400	34.97	0.19	35.16	56.00	-20.84	QP	
6		5.2800	37.02	0.23	37.25	60.00	-22.75	QP	

*:Maximum data x:Over limit !:over margin

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File: 70054\Data: #46

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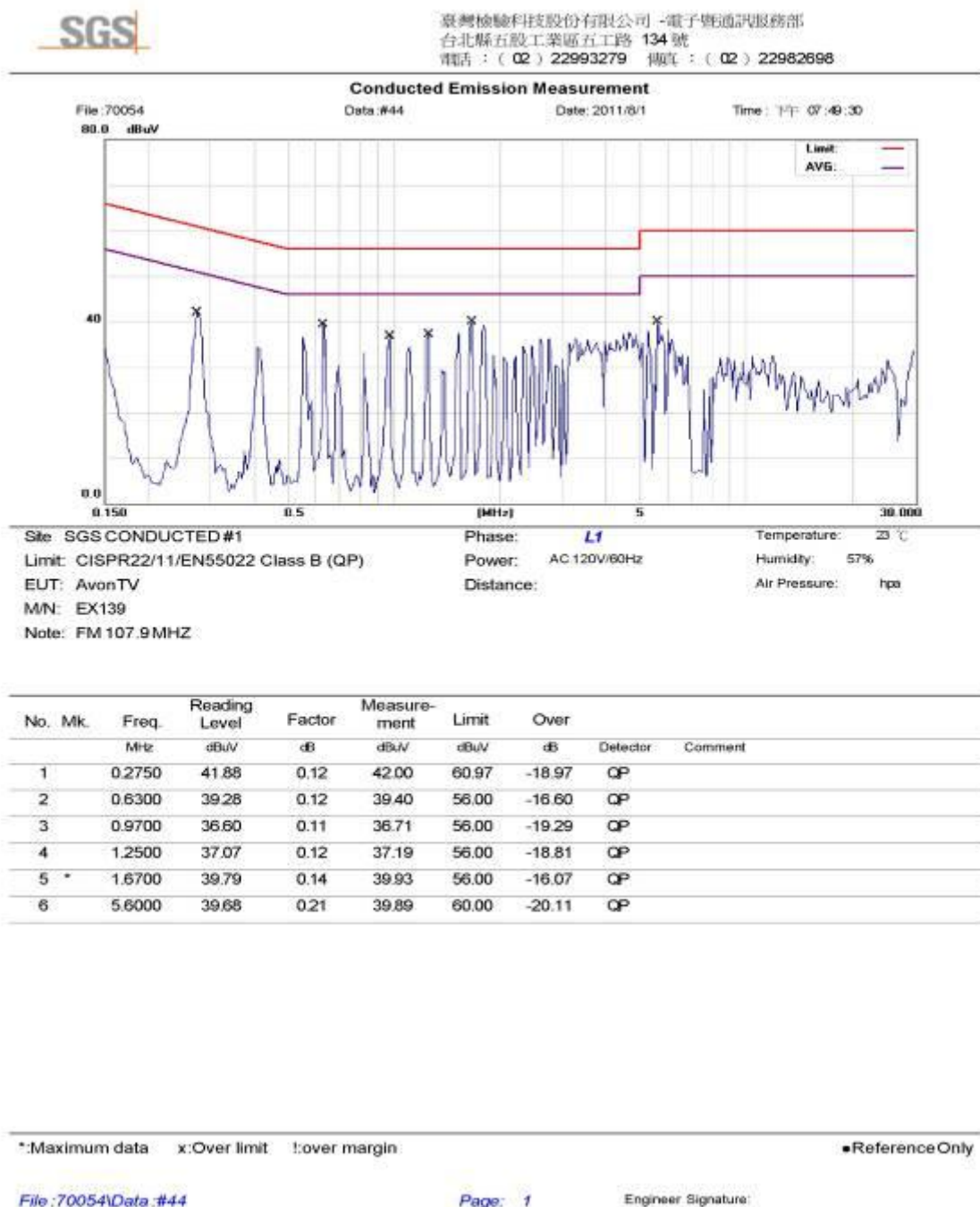
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Config 2 : FM 107.9MHz

L



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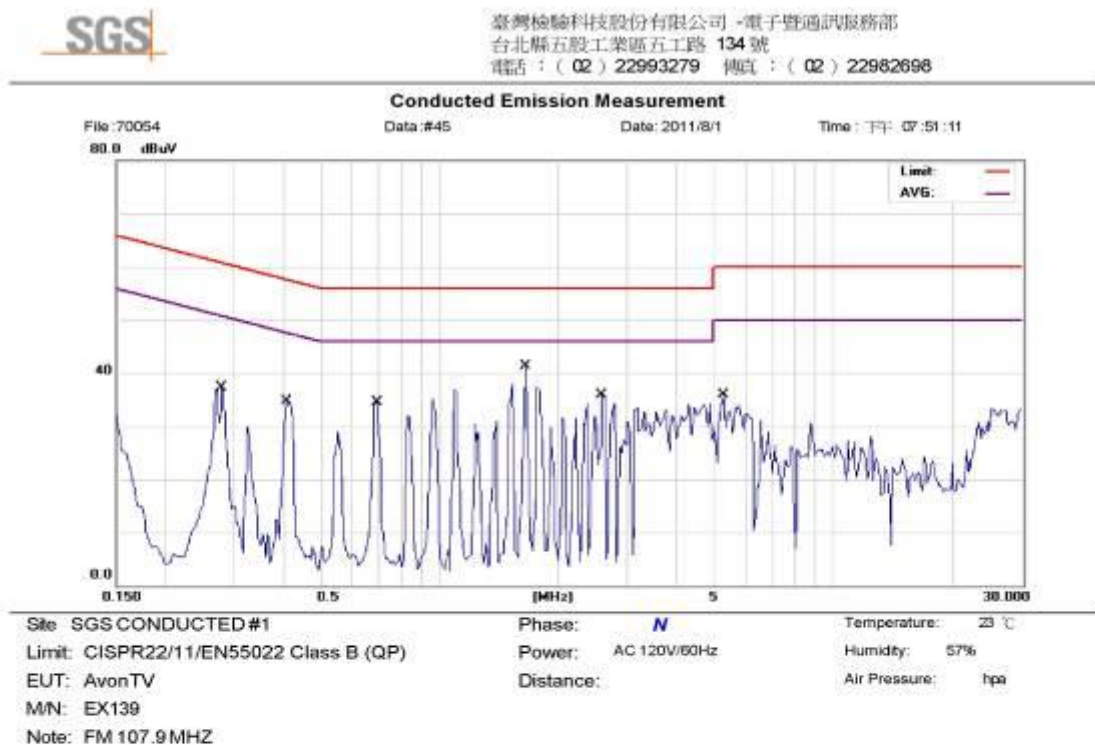
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N



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2800	37.05	0.16	37.21	60.82	-23.61	QP	
2		0.4100	34.63	0.16	34.79	57.65	-22.86	QP	
3		0.6900	34.44	0.16	34.60	56.00	-21.40	QP	
4	*	1.6500	41.13	0.17	41.30	56.00	-14.70	QP	
5		2.5900	35.68	0.19	35.87	56.00	-20.13	QP	
6		5.2600	35.66	0.23	35.89	60.00	-24.11	QP	

*:Maximum data x:Over limit !:over margin

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File: 70054\Data: #45

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Engineer Signature:

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2.5 Test of Radiated Emission

2.5.1 Test Instruments

Below 1G

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
Site NSA	TDK	966 Chamber	N/A	Nov. 07, 2010	Nov. 06, 2011
EMI Test Receiver	ROHDE&SCHWARZ	ESCI 7	1166.5950K07 -10760-GK	May 20, 2011	May 19, 2012
Spectrum Analyzer	R & S	FSP 40	1093.4495.40	May 04, 2011	May 03, 2012
Broadband Antenna	SCHWAZBECK	VULB9160	9160-3224	Apr. 26, 2011	Apr. 25, 2012
RF-Amplifier	HP	8447D	1937A02834	Nov. 27, 2010	Nov. 26, 2011
Antenna Master	HD GmbH	MA240-N	240/657	N/A	N/A
Turn Table	HD GmbH	DS420	420/542	N/A	N/A
Controller	HD GmbH	HD 100	100/803	N/A	N/A
CCD Video Camera System	N/A	VCS-04	N/A	N/A	N/A
Color Monitor	Lenovo	16dcpw5-1	N/A	N/A	N/A
Software	Farad	EZ-EMC- VER2A1.1(USB)	N/A	N/A	N/A

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Above 1G

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
Site NSA	Chamost	966II Chamber	N/A	Nov. 14, 2010	Nov. 13, 2011
EMI Test Receiver	ROHDE&SCHWARZ	ESCI 7	1166.5950K07 -10760-GK	May 20, 2011	May 19, 2012
Spectrum Analyzer	R & S	FSP 40	1093.4495.40	May 04, 2011	May 03, 2012
RF-Amplifier (0.1-1300MHz)	HP	8447D	1937A02774	Nov. 27, 2010	Nov. 26, 2011
RF-Amplifier (1-26.5MHz)	HP	8449B	3008A00578	Mar. 02, 2011	Mar. 01, 2012
Coaxial Cables	SUCOFLEX	104PEA	N/A	Nov. 27, 2010	Nov. 26, 2011
Antenna Master	MF.	N/A	N/A	N/A	N/A
Turn Table	MF.	N/A	N/A	N/A	N/A
Controller	MF.	3000	MF780208153	N/A	N/A
Antenna	SCHWAZBECK	VULB9160	3068	Nov. 12, 2010	Nov. 11, 2011
Horn Antenna (For above 1G)	CHAMPRO	HA1-18GG	SN0805-HA02	Jul. 12, 2011	Jul. 11, 2012
Software	Farad	EZ-EMC- VER2A1.1(USB)	N/A	N/A	N/A

2.5.2 Test Site

SGS Taiwan LTD. Electronics & Communication Laboratory
No.134, Wu Kung Road. Wuku Industrial Zone, Taipei County 248, Taiwan (R.O.C.)

2.5.3 Operating Environment

Temperature : 25 degree C Humidity : 60 %RH
Atmospheric Pressure : 996 mBar

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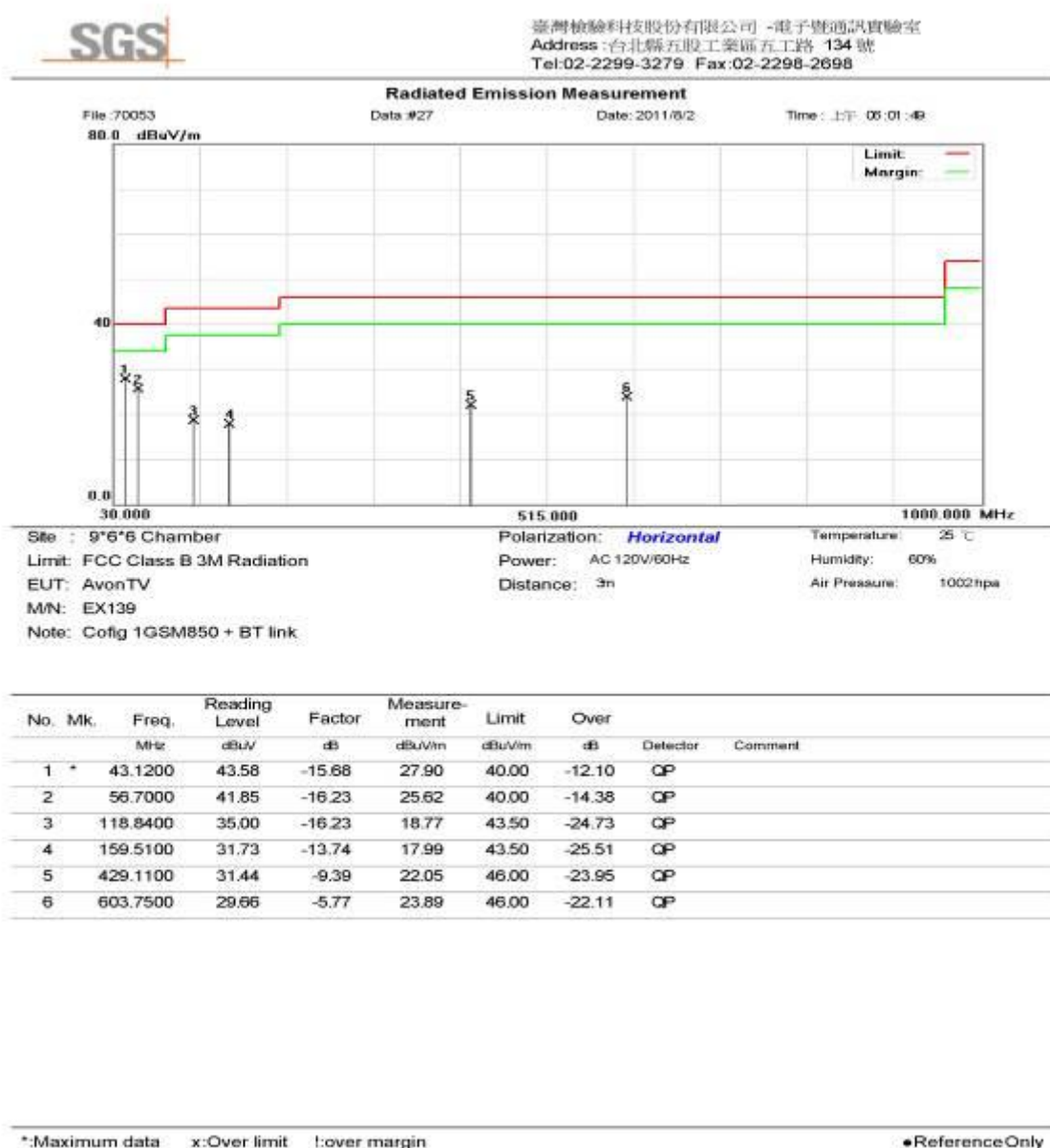
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2.5.4 Measurement Data

Config 1 : GSM850+BT

H:



File : 70053\Data : #27

Page: 1

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V:



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	43.2100	43.01	-15.67	27.34	40.00	-12.66	QP	
2		58.7700	41.12	-16.43	24.69	40.00	-15.31	QP	
3		118.8700	36.91	-16.23	20.68	43.50	-22.82	QP	
4		159.5700	32.78	-13.74	19.04	43.50	-24.46	QP	
5		429.1500	31.73	-9.39	22.34	46.00	-23.66	QP	
6		729.9300	29.97	-3.24	26.73	46.00	-19.27	QP	

*:Maximum data x:Over limit !:over margin

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File: 70053\Data: #28

Page: 1

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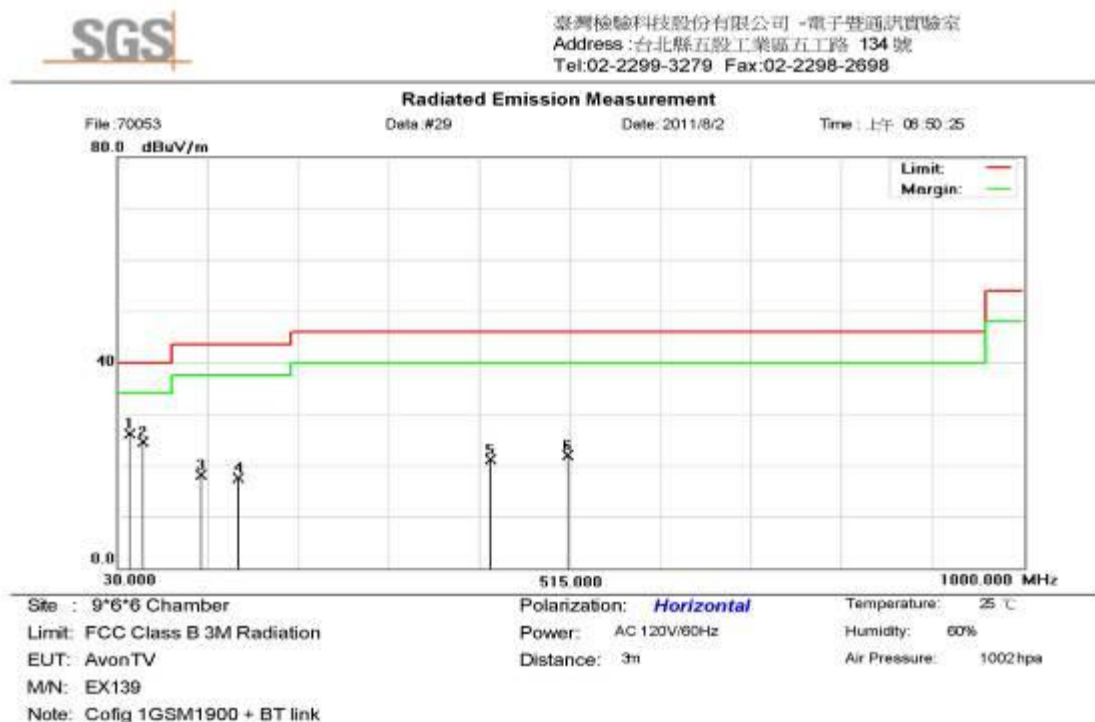
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Config 1 : GSM1900+BT

H:



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	43.1900	41.80	-15.67	26.13	40.00	-13.87	QP	
2		56.8100	40.81	-16.25	24.56	40.00	-15.44	QP	
3		118.7700	34.42	-16.24	18.18	43.50	-25.32	QP	
4		159.5000	31.21	-13.74	17.47	43.50	-26.03	QP	
5		429.2500	30.50	-9.39	21.11	46.00	-24.89	QP	
6		512.5500	29.80	-7.87	21.93	46.00	-24.07	QP	

*: Maximum data x: Over limit -: over margin

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Page: 1

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V:



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	43.1400	42.21	-15.68	26.53	40.00	-13.47	QP	
2		64.5200	42.01	-17.09	24.92	40.00	-15.08	QP	
3		118.7000	35.99	-16.24	19.75	43.50	-23.75	QP	
4		159.4800	34.23	-13.74	20.49	43.50	-23.01	QP	
5		429.1500	30.68	-9.39	21.29	46.00	-24.71	QP	
6		615.4100	29.88	-5.63	24.25	46.00	-21.75	QP	

*:Maximum data x:Over limit !:over margin

●Reference Only

File: 70053\Data: #30

Page: 1

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Config 3 : Data link

H:



File : 70053 \ Data : #31

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V:



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		39.2000	43.01	-16.06	26.95	40.00	-13.05	QP	
2		136.2500	42.55	-14.68	27.87	43.50	-15.63	QP	
3		194.5000	50.33	-16.17	34.16	43.50	-9.34	QP	
4		204.1000	45.93	-16.02	29.91	43.50	-13.59	QP	
5	*	479.5200	46.77	-8.47	38.30	46.00	-7.70	QP	
6		720.3400	34.58	-3.45	31.13	46.00	-14.87	QP	

*:Maximum data x:Over limit !:over margin

●Reference Only

File : 70053 \ Data : #32

Page: 1

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Config 4 : Play music

H:



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	43.1300	44.61	-15.68	28.93	40.00	-11.07	QP	
2		56.8200	41.84	-16.25	25.59	40.00	-14.41	QP	
3		118.8800	35.52	-16.23	19.29	43.50	-24.21	QP	
4		159.5300	32.01	-13.74	18.27	43.50	-25.23	QP	
5		429.1600	31.62	-9.39	22.23	46.00	-23.77	QP	
6		693.0400	29.35	-4.09	25.26	46.00	-20.74	QP	

*:Maximum data x:Over limit !:over margin

•Reference Only

File: 70053\Data: #25

Page: 1

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V:



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		43.1300	44.63	-15.68	28.95	40.00	-11.05	QP	
2	*	56.8500	53.24	-16.25	36.99	40.00	-3.01	QP	
3		118.6600	37.39	-16.25	21.14	43.50	-22.36	QP	
4		159.4200	33.63	-13.74	19.89	43.50	-23.61	QP	
5		429.1500	31.85	-9.39	22.46	46.00	-23.54	QP	
6		648.3300	30.63	-5.29	25.34	46.00	-20.66	QP	

*:Maximum data x:Over limit !:over margin

●Reference Only

File : 70053 \ Data : #26

Page: 1

Engineer Signature:

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Config 4 : REC H:



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	43.1100	44.80	-15.68	29.12	40.00	-10.88	QP	
2		56.8500	42.77	-16.25	26.52	40.00	-13.48	QP	
3		118.8300	36.51	-16.23	20.28	43.50	-23.22	QP	
4		159.5000	32.90	-13.74	19.16	43.50	-24.34	QP	
5		285.5500	33.24	-12.60	20.64	46.00	-25.36	QP	
6		429.1800	31.62	-9.39	22.23	46.00	-23.77	QP	

*:Maximum data x:Over limit !:over margin

•Reference Only

File : 70053 \ Data : #23

Page: 1

Engineer Signature:

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V:



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	43.1600	43.61	-15.67	27.94	40.00	-12.06	QP	
2		56.7400	41.54	-16.24	25.30	40.00	-14.70	QP	
3		118.7800	36.92	-16.24	20.68	43.50	-22.82	QP	
4		159.5500	32.62	-13.74	18.88	43.50	-24.62	QP	
5		286.5600	32.11	-12.56	19.55	46.00	-26.45	QP	
6		429.2300	31.33	-9.39	21.94	46.00	-24.06	QP	

*:Maximum data x:Over limit !:over margin

●Reference Only

File: 70053\Data: #24

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Config 2 : FM88.1MHz

H:



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	43.2200	42.41	-15.67	26.74	40.00	-13.26	QP	
2		58.7200	39.15	-16.42	22.73	40.00	-17.27	QP	
3		118.8800	32.24	-16.23	16.01	43.50	-27.49	QP	
4		175.0400	31.62	-14.39	17.23	43.50	-26.27	QP	
5		429.1500	29.55	-9.39	20.16	46.00	-25.84	QP	
6		619.2200	29.78	-5.60	24.18	46.00	-21.82	QP	

*:Maximum data x:Over limit !:over margin

●Reference Only

File : 70053\Data : #17

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V:



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	43.1600	42.33	-15.67	26.66	40.00	-13.34	QP	
2		58.6100	39.02	-16.41	22.61	40.00	-17.39	QP	
3		118.7600	34.15	-16.24	17.91	43.50	-25.59	QP	
4		159.4800	29.71	-13.74	15.97	43.50	-27.53	QP	
5		429.1100	30.98	-9.39	21.59	46.00	-24.41	QP	
6		605.6200	28.88	-5.74	23.14	46.00	-22.86	QP	

*:Maximum data x:Over limit !:over margin

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File : 70053\Data : #18

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Config 2 : FM98.1MHz

H:



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	43.1600	42.10	-15.67	26.43	40.00	-13.57	QP	
2		56.6600	40.32	-16.23	24.09	40.00	-15.91	QP	
3		118.8900	35.74	-16.22	19.52	43.50	-23.98	QP	
4		159.5100	32.01	-13.74	18.27	43.50	-25.23	QP	
5		429.1800	30.33	-9.39	20.94	46.00	-25.06	QP	
6		559.3400	29.99	-6.84	23.15	46.00	-22.85	QP	

*:Maximum data x:Over limit !:over margin

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File : 70053\Data : #19

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V:



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	43.1700	41.11	-15.67	25.44	40.00	-14.56	QP	
2		56.8200	40.66	-16.25	24.41	40.00	-15.59	QP	
3		118.8100	35.35	-16.23	19.12	43.50	-24.38	QP	
4		159.4800	32.66	-13.74	18.92	43.50	-24.58	QP	
5		429.2500	31.33	-9.39	21.94	46.00	-24.06	QP	
6		601.9400	29.88	-5.78	24.10	46.00	-21.90	QP	

*:Maximum data x:Over limit !:over margin

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File: 70053\Data: #20

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Config 2 : FM107.9MHz

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No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	43.0400	43.92	-15.68	28.24	40.00	-11.76	QP	
2		58.6600	40.55	-16.42	24.13	40.00	-15.87	QP	
3		118.8800	33.62	-16.23	17.39	43.50	-26.11	QP	
4		213.9200	32.55	-15.44	17.11	43.50	-26.39	QP	
5		429.1100	30.11	-9.39	20.72	46.00	-25.28	QP	
6		722.0900	28.16	-3.41	24.75	46.00	-21.25	QP	

*:Maximum data x:Over limit !:over margin

●Reference Only

File : 70053\Data : #21

Page: 1

Engineer Signature:

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V:



No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	43.0800	40.70	-15.68	25.02	40.00	-14.98	QP	
2		59.7000	37.33	-16.52	20.81	40.00	-19.19	QP	
3		118.7600	35.62	-16.24	19.38	43.50	-24.12	QP	
4		159.4200	31.85	-13.74	18.11	43.50	-25.39	QP	
5		429.1500	31.11	-9.39	21.72	46.00	-24.28	QP	
6		687.2800	28.91	-4.25	24.66	46.00	-21.34	QP	

*:Maximum data x:Over limit !:over margin

●Reference Only

File: 70053\Data: #22

Page: 1

Engineer Signature:

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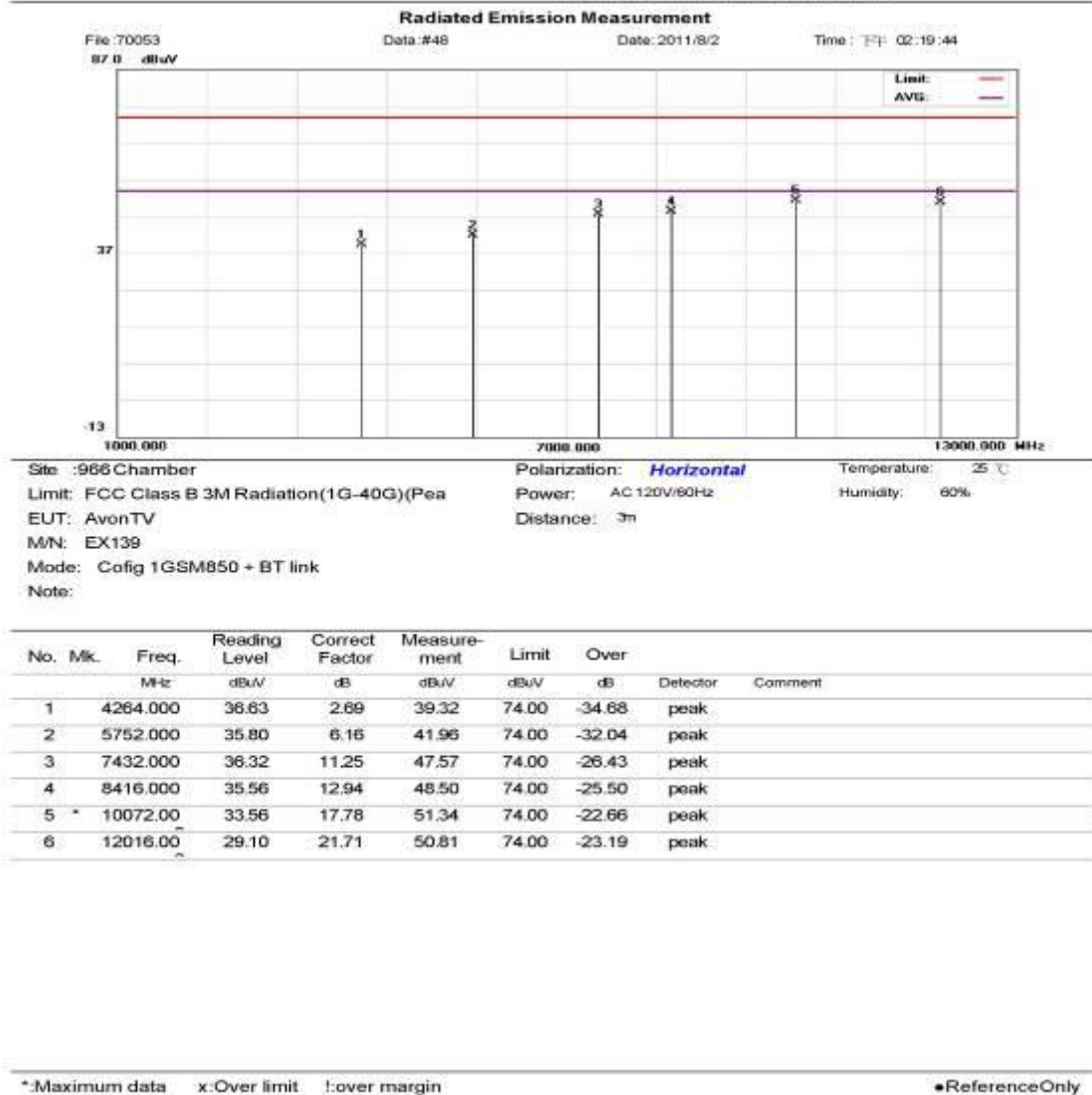
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File: 70053\Data: #48

Page: 1

Engineer Signature:

Printed: 2011/08/02 14:00:00

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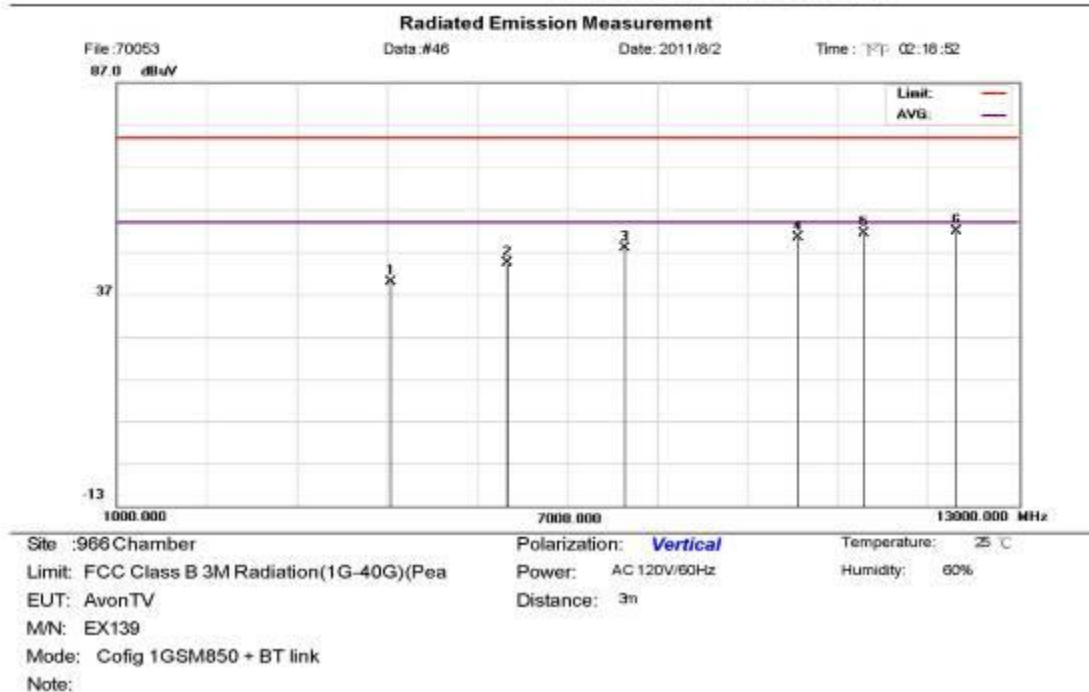
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No.	Mk.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measure- ment dBμV	Limit dBμV	Over dB	Detector	Comment
1		4648.000	36.23	3.69	39.92	74.00	-34.08	peak	
2		6208.000	36.80	7.46	44.26	74.00	-29.74	peak	
3		7768.000	35.85	12.04	47.89	74.00	-26.11	peak	
4		10072.00	32.72	17.78	50.50	74.00	-23.50	peak	
5		10960.00	31.13	20.37	51.50	74.00	-22.50	peak	
6	*	12184.00	29.84	22.16	52.00	74.00	-22.00	peak	

*:Maximum data x:Over limit !:over margin

•ReferenceOnly

File: 70053\Data: #46

Page: 1

Engineer Signature:

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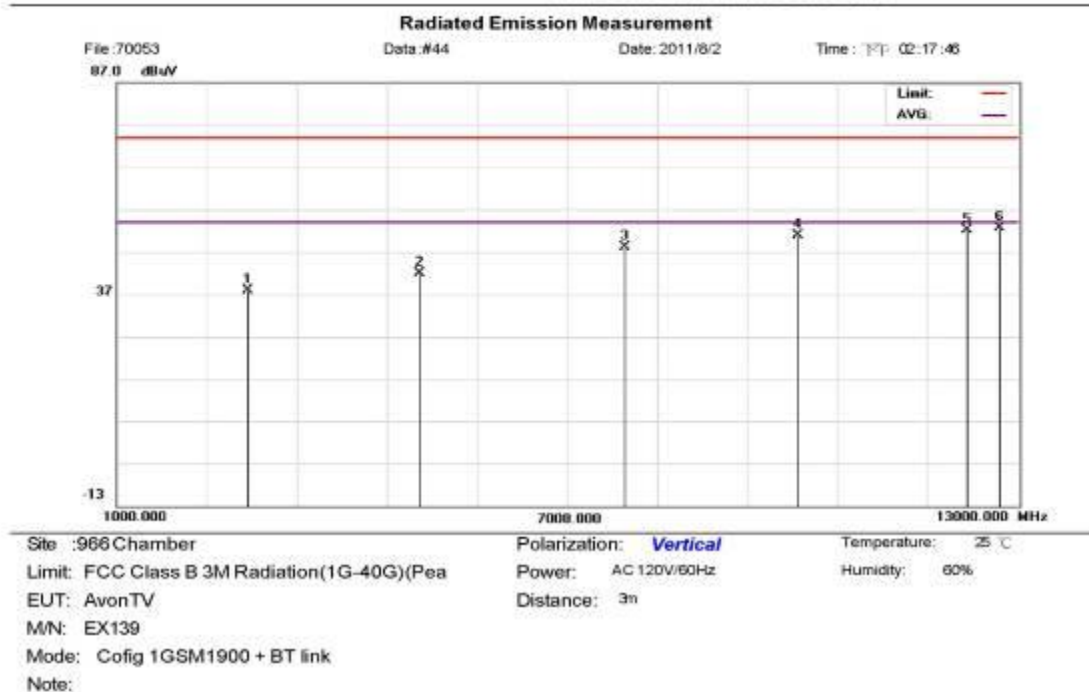
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No.	Mk.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measure- ment dBμV	Limit dBμV	Over dB	Detector	Comment
1		2752.000	38.44	-0.56	37.88	74.00	-36.12	peak	
2		5032.000	36.98	4.86	41.84	74.00	-32.16	peak	
3		7768.000	36.12	12.04	48.16	74.00	-25.84	peak	
4		10072.00	33.15	17.78	50.93	74.00	-23.07	peak	
5		12328.00	29.51	22.54	52.05	74.00	-21.95	peak	
6	*	12760.00	28.92	23.68	52.60	74.00	-21.40	peak	

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File: 70053\Data: #44

Page: 1

Engineer Signature:

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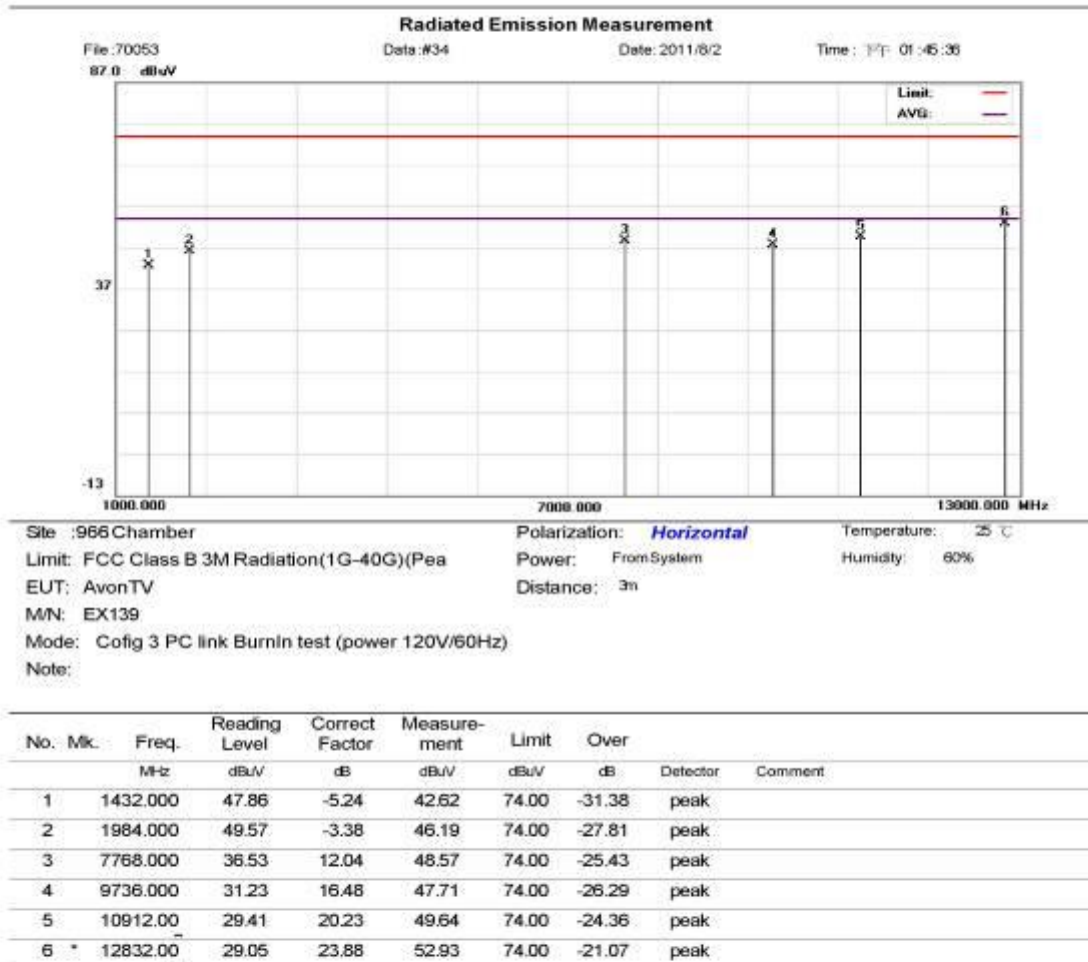
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Config 3 : Data link

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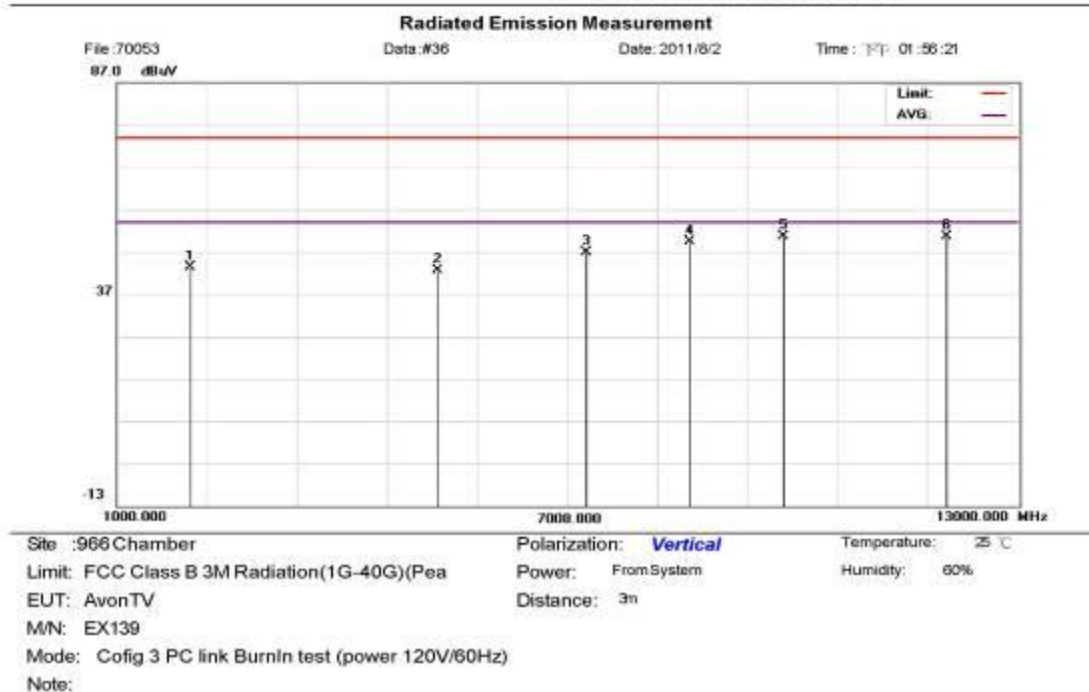
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No.	Mk.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measure- ment dBμV	Limit dBμV	Over dB	Detector	Comment
1		1984.000	46.77	-3.38	43.39	74.00	-30.61	peak	
2		5272.000	37.33	5.22	42.55	74.00	-31.45	peak	
3		7284.000	36.10	10.85	46.95	74.00	-27.05	peak	
4		8632.000	36.25	13.12	49.37	74.00	-24.63	peak	
5		9880.000	33.43	17.08	50.51	74.00	-23.49	peak	
6	*	12064.00	28.77	21.84	50.61	74.00	-23.39	peak	

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File : 70053\Data : #36

Page: 1

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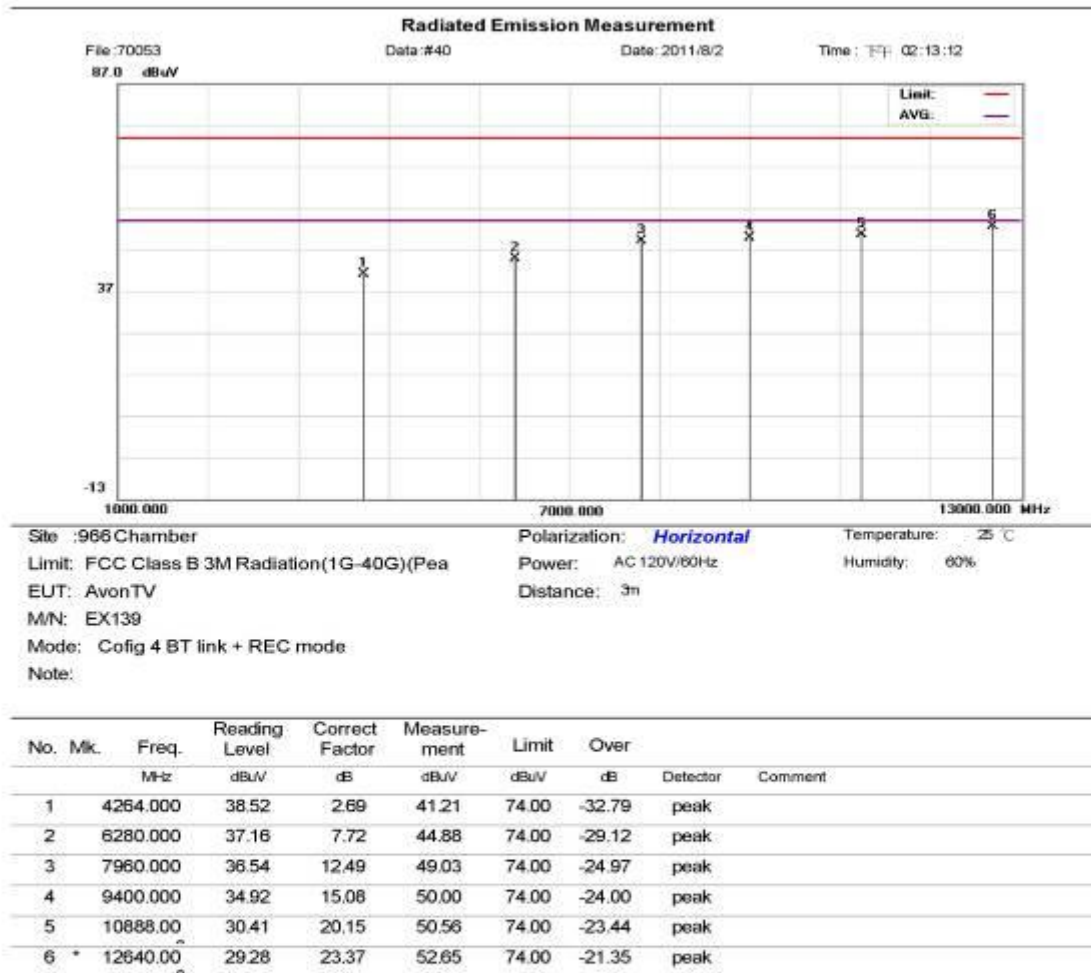
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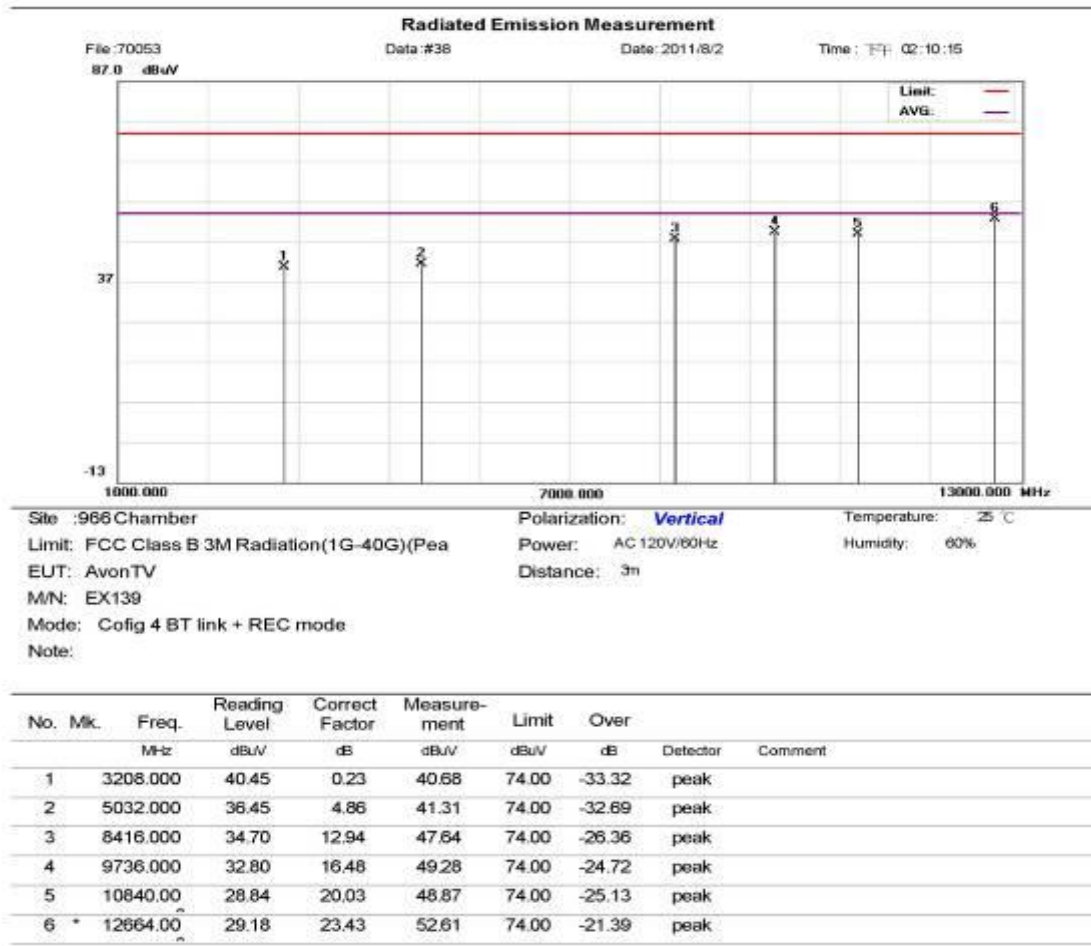
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