



FCC DOC TEST REPORT

According to

47 CFR, Part 2, Part 15, CISPR PUB. 22

Applicant : Partner Tech Corp.

Address 10FL, 233-2, Baoqiao Road, Xindian,

· New Taipei City, Taiwan

Equipment : Handheld Terminal

Model No. : OT-110

Trade Name : Partner

• The test result refers exclusively to the test presented test model / sample.

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Applicant : Partner Tech Corp.

10FL, 233-2, Baogiao Road, Xindian, Address

New Taipei City, Taiwan

Equipment Handheld Terminal

Model No. OT-110

I HEREBY CERTIFY THAT:

The measurements shown in this test report were made in accordance with the procedures given in ANSI C63.4 – 2009 and the energy emitted by this equipment was passed CISPR PUB. 22, FCC Part 15 in both radiated and conducted emission class B limits.

Testing was carried out on Jun. 23, 2011 at Cerpass Technology Corp.

Signature

Hill Chen

EMC/RF B.U. Chief of Engineering Dept.

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1. Test Configuration of Equipment under Test

1.1. Feature of Equipment under Test

CPU Samsung S3C 6410 667MHz		
Mobile DDR 128MB, NAND flash 256MB		
4.3" widescreen (resolution 272*480)		
WLAN 802.11 b/g, Mini USB 2.0 (Client) / 1.1 (Host)		
Speaker, Internal microphone, earphone jack, microphone jack		
Micro SD Card (support SDHC)		
Vibrator motor (for alerts)		
4-way direction sensor		
Ambient light sensor		
Backup restore utility		
Li-ion 2200mAh (with Gas Gauge)		
IP54, 1.2 meter drop test		
Windows CE 6.0		
133 * 82 * 19 mm(H x W x D)		
Sunlight-readable panel with power-saving function		
MSR Track 1, 2, 3		
Barcode Scanner 1D/2D		
RFID 13.56MHz (Mifare)		
Approx. 220g with battery		
CWT \ KPC-010B		
Touch \ M8-10US05R		

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1.2. Test Manner

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b. The complete test system included PC, Monitor, Keyboard, Mouse, Printer, Modem, Earphone, Micro SD Card and EUT for EMI test.
- c. The result of Conduction test as follow:
 - Test Mode 1. PC Link, EUT + Module: RFID + Adapter: CWT \ KPC-010B
 - Test Mode 2. PC Link, EUT + Module: RFID + Adapter: Touch \ M8-10US05R
 - Test Mode 3. PC Link, EUT + Module: BCR-1D + Adapter: CWT \ KPC-010B
 - Test Mode 4. PC Link, EUT + Module: BCR-2D + Adapter: CWT \ KPC-010B
 - Test Mode 5. PC Link, EUT + Module: MSR + Adapter: CWT \ KPC-010B
 - Test Mode 6. EUT with Cradle: Single Set, Module: BCR-2D + Adapter: CWT \ KPC-010B
 - Test Mode 7. EUT with Cradle: Multi Set, Module: BCR-2D + Adapter: CWT \ KPC-010B cause "Test Mode 4" generated the worst test result, it was reported as final data.
- d. The result of Radiation test as follow:
 - Test Mode 1. PC Link, EUT + Module: BCR-1D + Adapter: Touch \ M8-10US05R
 - Test Mode 2. PC Link, EUT + Module: BCR-2D + Adapter: Touch \ M8-10US05R
 - Test Mode 3. PC Link, EUT + Module: MSR + Adapter: Touch \ M8-10US05R
 - Test Mode 4. PC Link, EUT + Module: RFID + Adapter: Touch \ M8-10US05R
 - Test Mode 5. PC Link, EUT + Module: BCR-2D + Adapter: CWT \ KPC-010B
 - Test Mode 6. EUT with Cradle: Single Set, Module: BCR-2D + Adapter: CWT \ KPC-010B
 - Test Mode 7. EUT with Cradle: Multi Set, Module: BCR-2D + Adapter: CWT \ KPC-010B
 - Test Mode 8. EUT with Earphone, Power from Battery
 - For 30MHz ~ 1Gbps, cause "Test Mode 5" generated the worst test result, it was reported as final data.
 - For 1Gbps ~ 6Gpbs, cause "Test Mode 3" generated the worst test result, it was reported as final data.
- e. An executive program, "Active Sync" under WIN 7 was executed to keep sending signals.
- f. An executive program, "Media Player" under WIN 7 was executed to play music.
- g. An executive program, "Word Pad" under WIN 7 was executed to display the message sent from EUT.
- h. The EUT was executed to keep transmitting and receiving data via Wireless and Bluetooth.

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1.3. Description of Support Unit

Device	Manufacturer	Model No.	Description
PC	DELL	DIMENSION -4600	Power Cable, Adapter Unshielding 1.8m
Monitor	DELL	U2410f	Power Cable, Unshielding, 1.8m VGA, Shielding 1.35m
Keyboard	DELL	SK-8175	USB, Shielding 1.85m
Mouse	DELL	M-UV83	USB, Shielding 1.85m
Printer	hp	D2660	Power Cable, Unshielding, 1.8m USB, Shielding 1.6m
Modem	ACEEX	DM-1414	Power Cable, Unshielding, 1.8m RS232, Shielding 1.35m
Earphone	MIC	MIC-4	Audio, Shielding 1.35m
Micro SD Card	Kingston	2GB	N/A

Use Cable:

Cable	Quantity	Description
USB	1	Unshielding, 1.8m

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1.4. General Information of Test

Test Site :	Cerpass Technology Corp. 2F-11, No. 3, Yuan Qu St., (Nankang Software Park), Taipei, Taiwan 115, R.O.C.
Test Site Location (OATS2-SD):	No.68-1, Shihbachongsi, Shihding Township, Taipei City 223, Taiwan, R.O.C.
FCC Registration Number :	TW1049, TW1061, 488071, 390316
IC Registration Number :	4934B-1, 4934D-1
VCCI Registration Number :	T-543 for Telecommunication Test C-3328 for Conducted emission test R-3013 for Radiated emission test G-97 for radiated disturbance above 1GHz
Test Voltage:	AC 120V/ 60Hz
Test in Compliance with:	ANSI C63.4-2009 FCC Part 15 Subpart B
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 6,000 MHz
Test Distance :	The test distance of radiated emission below 1GHz from antenna to EUT is 10 M. The test distance of radiated emission above 1GHz from antenna to EUT is 3 M.

1.5. Measurement Uncertainty

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30 MHz	LINE / NEUTRAL	2.71dB
	20 MH= 4 000 MH=	Vertical	3.52 dB
Radiated Emission	30 MHz ~ 1,000 MHz	Horizontal	3.39 dB
Radiated Emission	4 000 MH - 40 000 MH -	Vertical	4.39 dB
	1,000 MHz ~ 18,000 MHz	Horizontal	5.25 dB

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Report No.: TEFD1102004	

1.6. History of this test report

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 $\hfill\square$ Additional attachment as following record:

Attachment No.	Issue Date	Description

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2. Test of Conducted Emission

2.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2009 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Conducted Emission Limits:

Frequency (MHz)	Quasi Peak (dB µ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

2.2. Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

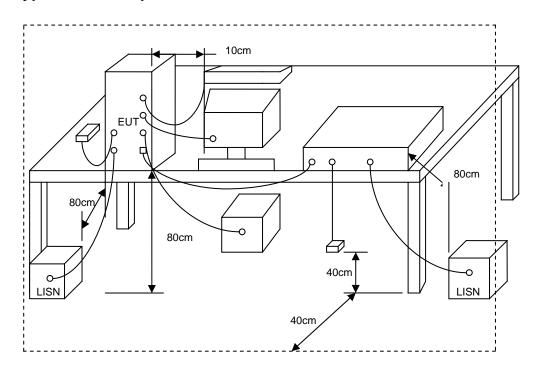
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2.3. Typical test Setup



2.4. Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
EMI Receiver	R&S	ESCI	100443	2011/02/08	2012/02/07
LISN	Schwarzbeck	NSLK 8127	8127-516	2011/05/05	2012/05/04
LISN	MessTec	NNS-2/16L	02/10191	2010/07/19	2011/07/18

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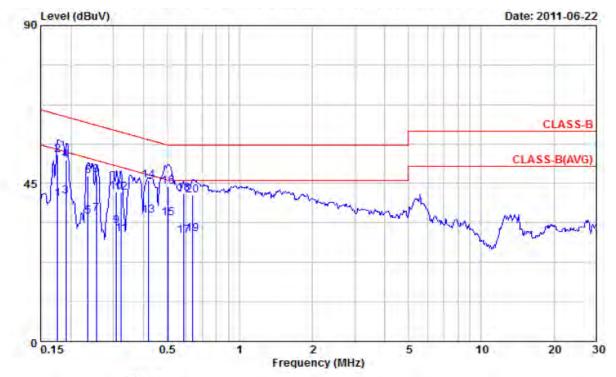
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2.5. Test Result and Data

Power	:	AC 120V	Pol/Phase :	LINE
Test Mode 4	:	PC Link, EUT + Module: BCR-2D +	Temperature :	25 °C
		Adapter: CWT \ KPC-010B		
Memo	:		Humidity :	50 %



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1 2 3 4 5 6 7 8 9 10 11 12	0.176 0.176 0.190 0.190 0.235 0.235 0.255 0.255 0.308 0.308 0.323 0.323	40.380 53.048 41.133 51.645 35.572 47.118 36.291 47.165 32.669 42.490 30.525 42.140 35.750	0.118 0.119 0.119 0.119 0.122 0.122 0.123 0.123 0.125 0.125 0.125	40.498 53.166 41.252 51.764 35.694 47.240 36.414 47.288 32.794 42.615 30.650 42.265 35.879	54.680 64.680 54.020 64.020 52.259 62.259 51.599 61.599 50.015 60.015 49.619 59.619 47.463	-14.182 -11.514 -12.768 -12.256 -16.565 -15.019 -15.185 -14.311 -17.221 -17.400 -18.969 -17.354 -11.584	Average QP Average
14 15	0.419	45.842 35.070	0.129 0.136	45.971 35.206	57.463 46.000	-11.492 -10.794	QP Average

Remarks: 1. Result = Read Value + Factor 2. Factor = LISN(ISN) Factor + Cable Loss

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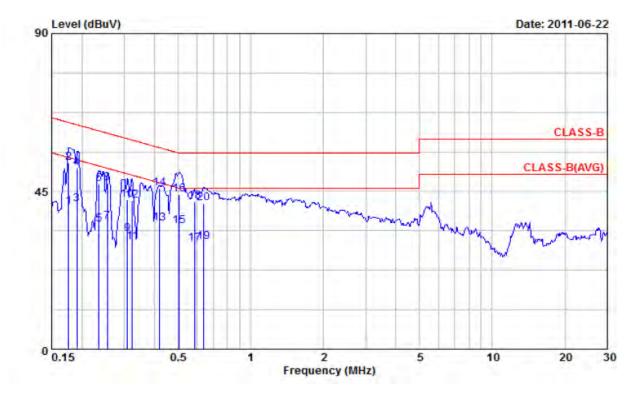
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Power	:	AC 120V	Pol/Phase :	LINE
Test Mode 4	:	PC Link, EUT + Module: BCR-2D +	Temperature :	25 °C
		Adapter: CWT \ KPC-010B		
Memo	:		Humidity :	50 %



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
16 17 18 19 20	0.505 0.585 0.585 0.641 0.641	44.034 29.903 42.067 30.495 41.481	0.136 0.148 0.148 0.156 0.156	44.170 30.051 42.215 30.651 41.637	56.000 46.000 56.000 46.000 56.000	-11.830 -15.949 -13.785 -15.349 -14.363	QP Average QP Average QP

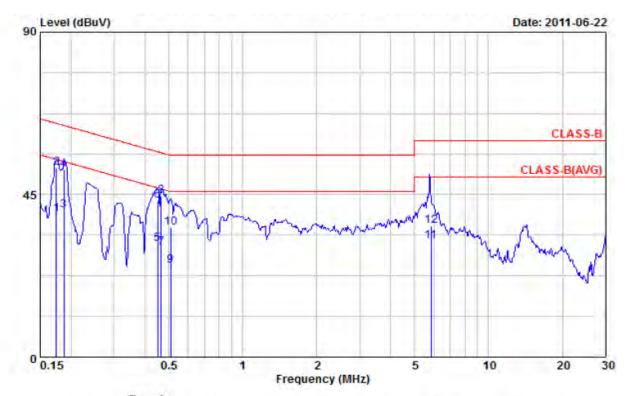
Remarks: 1. Result = Read Value + Factor 2. Factor = LISN(ISN) Factor + Cable Loss

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Power	:	AC 120V	Pol/Phase		NEUTRAL
Test Mode 4	:	PC Link, EUT + Module: BCR-2D +	Temperature	:	25 °C
		Adapter: CWT \ KPC-010B			
Memo	:		Humidity	•	50 %



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.175	39.406	0.099	39.505	54.724	-15.219	Average
2	0.175	52.317	0.099	52.416	64.724	-12.308	QP
3	0.187	40.636	0.100	40.736	54.152	-13.416	Average
4	0.187	51.891	0.100	51.991	64.152	-12.161	QP
5	0.451	31.301	0.116	31.417	46.864	-15.447	Average
6	0.451	43.196	0.116	43.312	56.864	-13.552	QP
7	0.466	30.295	0.116	30.411	46.583	-16.172	Average
9	0.466	44.443	0.116	44.559	56.583	-12.024	QP
9	0.510	25.126	0.119	25.245	46.000	-20.755	Average
10	0.510	35.619	0.119	35.738	56.000	-20.262	QP
11	5.822	31.762	0.387	32.149	50.000	-17.851	Average
12	5.822	35.913	0.387	36.300	60.000	-23.700	QP

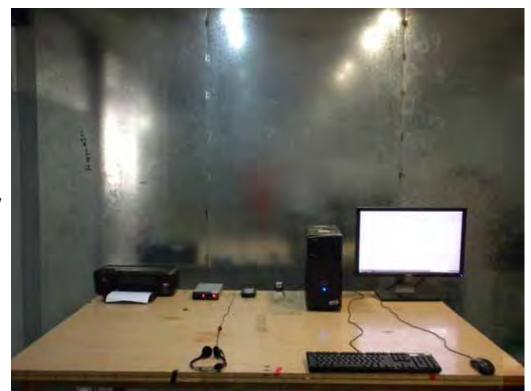
Remarks: 1. Result = Read Value + Factor 2. Factor = LISN(ISN) Factor + Cable Loss

Test engineer:

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2.6. Test Photographs



Front View



Rear View

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3. Test of Radiated Emission

3.1. Test Limit

Radiated emissions from 30 MHz to 6,000 MHz were measured with a bandwidth of 120 kHz according to the methods defines in ANSI C63.4-2009. The EUT was placed on a nonmetallic stand in the open-field site, 0.8 meter above the ground plane, as shown in section 3.2. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions. For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance Meters	Radiated (μ V / M)	Radiated (dB µ V/ M)
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

Frequency (MHz)	Distance Meters	Radiated (dB µ V/ M)
30-230	10	30
230-1000	10	37

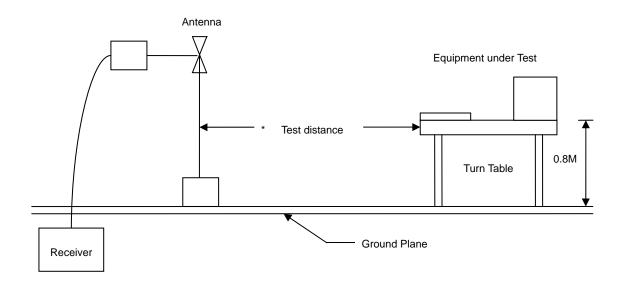
3.2. Test Procedures

- a. The EUT was placed on a Rota table top 0.8 meter above ground.
- b. The EUT was set 10 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 6 dB margin will be repeated one by one using the quasi-peak method and reported.

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3.3. Typical test Setup



3.4. Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Amplifier	Agilent	8447D	2944A10531	2011/01/21	2012/01/20
Bilog Antenna	Schaffner	CBL6112D	22242	2011/02/09	2012/02/08
EMI Receiver	HP	8546A	3807A00454	2010/09/27	2011/09/26
RF Filter Section	HP	85460A	3704A00386	2010/09/27	2011/09/26
SPECTRUM ANALYZER	R&S	FSP40	100219	2010/11/05	2011/11/04
HORN ANTENNA	EMCO	3115	31589	2011/05/02	2012/05/01
Preamplifier	Agilent	8449B	3008A01954	2011/03/02	2012/03/01

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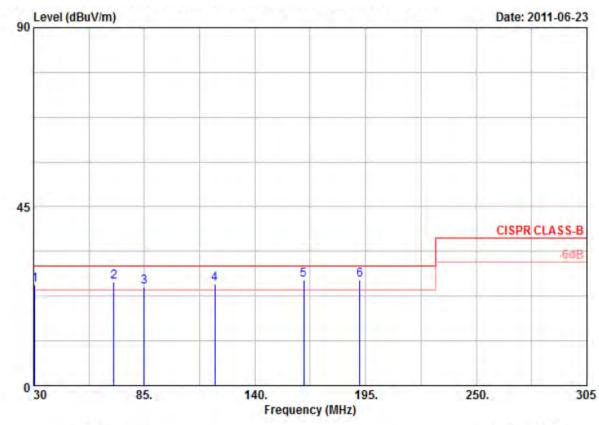
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3.5. Test Result and Data (30MHz ~ 1GHz)

Power	:	AC 110V	Pol/Phase :	VERTICAL
Test Mode 5	:	PC Link, EUT + Module: BCR-2D +	Temperature :	30 °C
		Adapter: CWT \ KPC-010B		
Memo	:		Humidity :	65 %



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	30.550	31.120	-5.893	25.227	30.000	-4.773	QP	400	0
2	69.875	47.820	-21.692	26.128	30.000	-3.872	QP	400	0
3	85.025	42.860	-17.963	24.897	30.000	-5.103	QP	400	0
4	120.200	37.830	-12.328	25.502	30.000	-4.498	QP	400	0
5	164.150	43.510	-16.982	26.528	30.000	-3.472	QP	400	0
6	192.000	42.550	-16.054	26.496	30.000	-3.504	QP	400	0:

Remarks: 1. Result = Read Value + Factor

2. Factor = Antenna factor + Cable loss - Amplifier factor

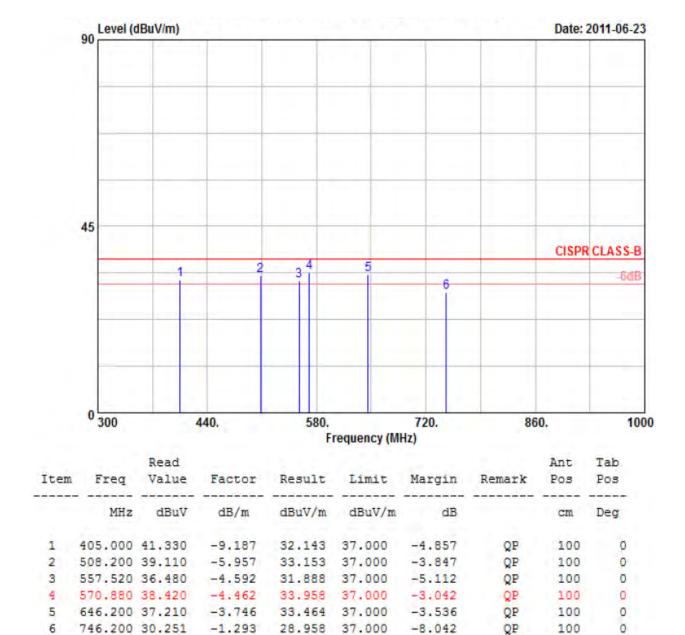
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Power :	AC 110V	Pol/Phase :	VERTICAL
Test Mode 5 :	PC Link, EUT + Module: BCR-2D +	Temperature :	30 °C
	Adapter: CWT \ KPC-010B		
Memo :		Humidity :	65 %



2. Factor = Antenna factor + Cable loss - Amplifier factor

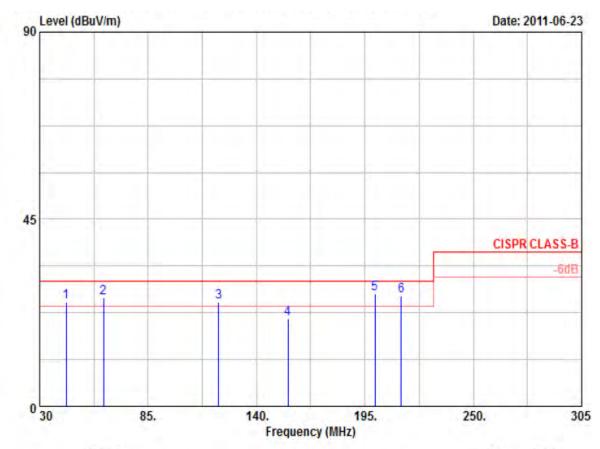
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Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 5	:	PC Link, EUT + Module: BCR-2D +	Temperature		30 °C
		Adapter: CWT \ KPC-010B			
Memo	:		Humidity	:	65 %



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	43.420	39.510	-14.386	25.124	30.000	-4.876	QP	400	0
2	62.380	45,269	-19.155	26.114	30.000	-3.886	QP	400	0
3	120.710	37.589	-12.566	25.023	30.000	-4.977	QP	400	0
4	156.000	36.820	-15.746	21.074	30,000	-8.926	QP	400	0
5	200.000	42.110	-15.060	27.050	30,000	-2.950	QP	400	0
6	213.520	41.950	-15.299	26.651	30.000	-3,349	QP	400	0

2. Factor = Antenna factor + Cable loss - Amplifier factor

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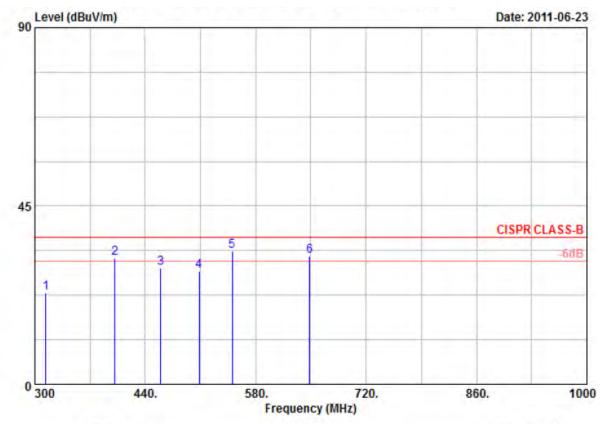
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Power	:	AC 120V	Pol/Phase :	HORIZONTAL
Test Mode 5	:	PC Link, EUT + Module: BCR-2D +	Temperature :	30 °C
		Adapter: CWT \ KPC-010B		
Memo	:		Humidity :	65 %



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant	Tab
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	314.000	33.899	-10.747	23.152	37.000	-13.848	QP	100	0
2	401.500	40.160	-8.440	31.720	37.000	-5.280	QP	100	0
3	459.600	36.140	-6.910	29.230	37.000	-7.770	QP	100	0
4	508.600	34.320	-5.657	28.663	37.000	-8.337	QP	100	0
5	550.600	38.050	-4.384	33.666	37.000	-3.334	QP	100	0
6	648.600	35.511	-3.090	32.421	37.000	-4.579	QP	100	0

2. Factor = Antenna factor + Cable loss - Amplifier factor

Test engineer:

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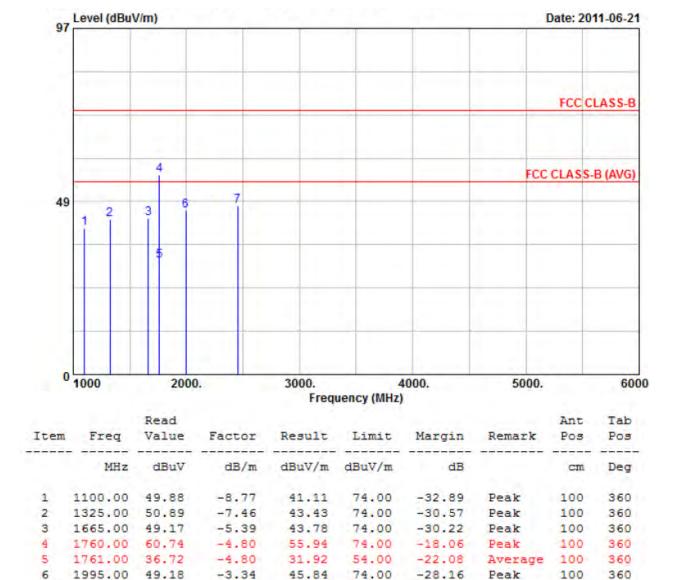
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3.6. Test Result and Data (1GHz ~ 6GHz)

Power	:	AC 120V	Pol/Phase :	VERTICAL	
Test Mode 3	:	PC Link, EUT + Module: MSR +	Temperature :	25 °C	
		Adapter: Touch \ M8-10US05R			
Memo	:		Humidity :	43 %	



Remarks: 1. Result = Read Value + Factor

2. Factor = Antenna factor + Cable loss - Amplifier factor

-1.76 47.30 74.00 -26.70 Peak

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2455.00 49.06

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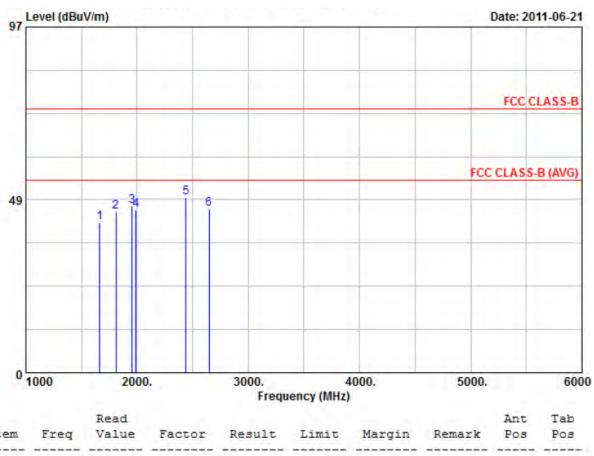
100 360

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Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 3	:	PC Link, EUT + Module: MSR +	Temperature		25 °C
		Adapter: Touch \ M8-10US05R			
Memo	:		Humidity	:	43 %



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Pos	Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	1665.00	47.63	-5.39	42.24	74.00	-31.76	Peak	100	360
2	1810.00	49.48	-4.49	44.99	74.00	-29.01	Peak	100	360
3	1955.00	50.45	-3.58	46.87	74.00	-27.13	Peak	100	360
4	1990.00	49.05	-3.36	45.69	74.00	-28.31	Peak	100	360
5	2440.00	50.96	-1.81	49.15	74.00	-24.85	Peak	100	360
6	2645.00	46.94	-0.88	46.06	74.00	-27.94	Peak	100	360

2. Factor = Antenna factor + Cable loss - Amplifier factor

Test engineer:

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3.7. Test Photographs (30MHz ~ 1GHz)



Front View



Rear View

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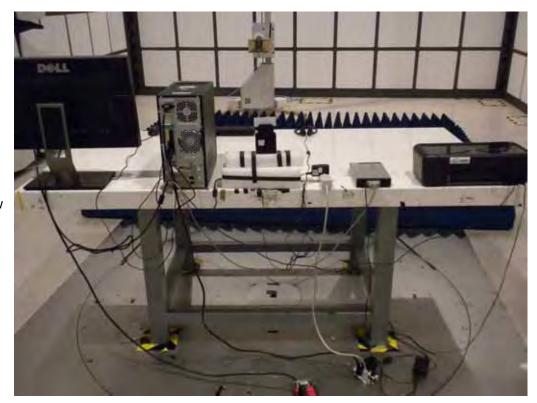
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3.8. Test Photographs (1GHz ~ 6GHz)



Front View



Rear View

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