



A Test Lab Techno Corp.  
Tel: +886-3-271-0188 Fax: +886-3-271-0190  
NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

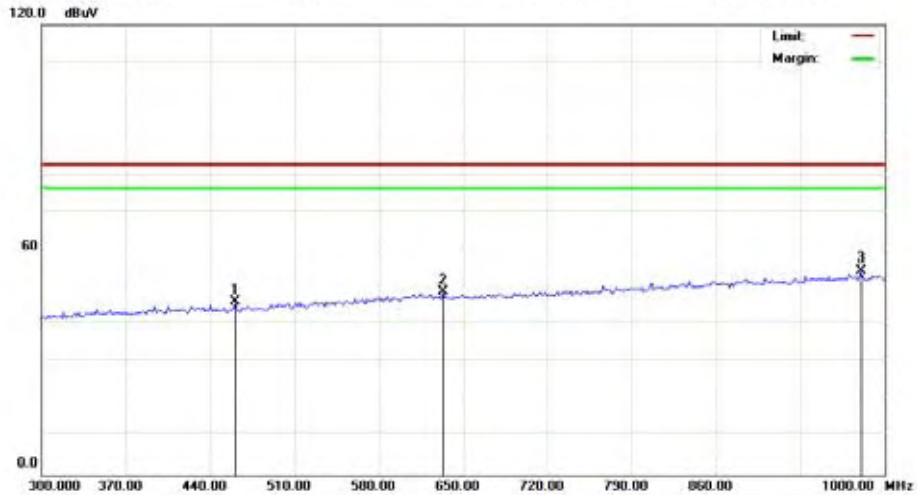
# Radiated Emission Measurement

File: M619(12-18-2006)

Data: #39

Date: 2006/12/19

Time: 下午 03:15:50



Site: 955中電波暗室

Polarization: *Horizontal*

Temperature: 22℃

Limit: FCC Part 22 Spurious (PC91800)

Power:

Humidity: 60%

EUT: PDA

Distance: 3m

M/N: M619

Mode: SAMPLE FOR ESD

Note: PC91800 GH661

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		461.0000	53.92	-7.85	46.07	82.22	-36.15	peak	
2		633.2000	52.99	-4.36	48.63	82.22	-33.59	peak	
3	*	980.3999	53.91	0.45	54.36	82.22	-27.86	peak	

\*:Maximum data x:Over limit b:over margin

■Reference Only

File: M619(12-18-2006)\Data: #39

Page: 1

Engineer Signature:



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NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

# Radiated Emission Measurement

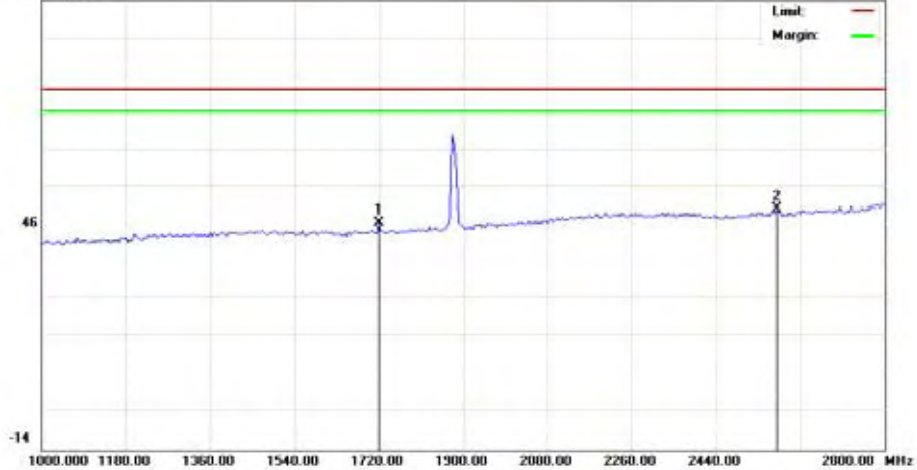
File: M619(12-18-2006)

Data: #29

Date: 2006/12/19

Time: 下午 12:16:18

106.0 dBuV



Site: 966中電波暗室

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PGS1800)

Power:

Humidity: 60 %

EUT: PDA

Distance: 3m

M/N: M619

Mode: SAMPLE FOR ESD

Note: PGS1800 GH661

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Defector	Comment
1		1720.000	50.25	-3.58	46.67	82.22	-35.55	peak	
2	*	2570.500	49.73	0.47	50.20	82.22	-32.02	peak	

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

▲Reference Only

File :M619(12-18-2006)\Data :#29

Page: 1

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# Radiated Emission Measurement

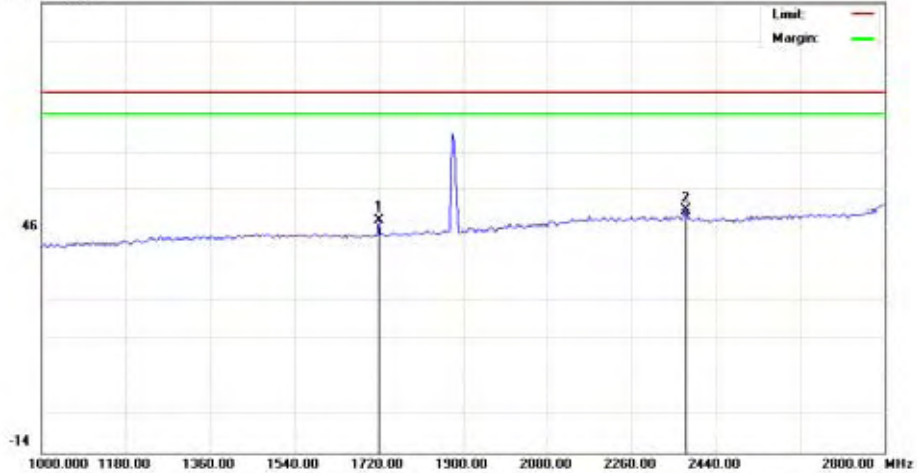
File: M619(12-18-2006)

Data: #28

Date: 2006/12/19

Time: 下午 12:13:46

106.0 dBuV



Site: 955中電波暗室

Polarization: *Horizontal*

Temperature: 22℃

Limit: FCC Part 22 Spurious (PCS1800)

Power:

Humidity: 60%

EUT: PDA

Distance: 3m

M/N: M619

Mode: SAMPLE FOR ESD

Note: PCS1800 GH661

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Defector	Comment
1		1720.000	51.87	-3.58	48.29	82.22	-33.93	peak	
2	*	2377.000	50.59	0.06	50.65	82.22	-31.57	peak	

\*:Maximum data x:Over limit b:over margin

■Reference Only

File: M619(12-18-2006)\Data: #28

Page: 1

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# Radiated Emission Measurement

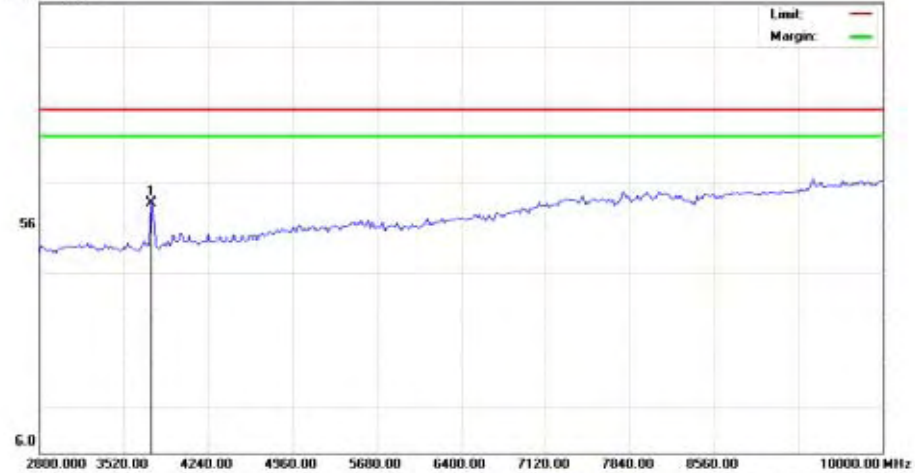
File: M619(12-18-2006)

Order #22

Date: 2006/12/19

Time: 上午 11:13:53

106.0 dBuV



Site: 966中電波暗室

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PC51800)

Power:

Humidity: 60 %

EUT: PDA

Distance: 3m

M/N: M619

Mode: SAMPLE FOR ESD

Note: PCS1900 GH661

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Offset or	Comment
1	*	3754.000	57.26	4.11	61.37	82.22	-20.85	peak	

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

■Reference Only

File: M619(12-18-2006)\Data #22

Page: 1

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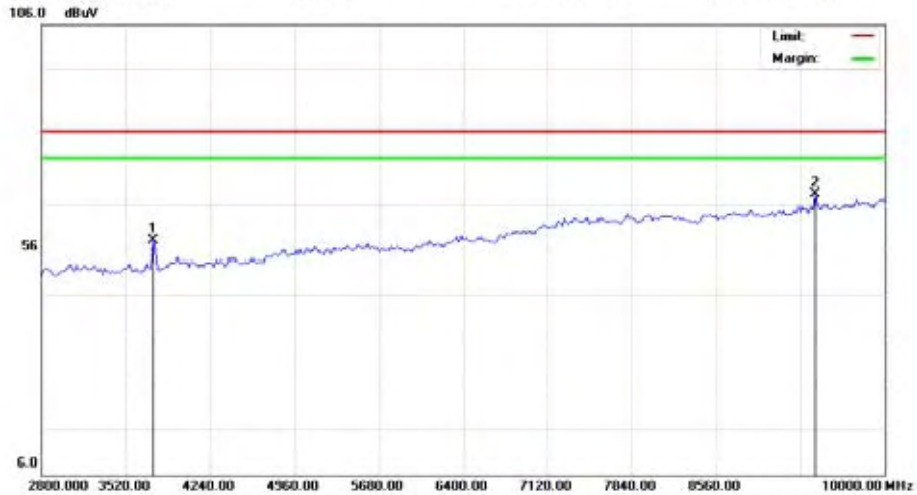
# Radiated Emission Measurement

File: M619(12-18-2006)

Data: #15

Date: 2006/12/19

Time: 上午 10:19:38



Site: 955中電波暗室

Polarization: *Horizontal*

Temperature: 22℃

Limit: FCC Part 22 Spurious (PCGS1800)

Power:

Humidity: 60%

EUT: PDA

Distance: 3m

M/N: M619

Mode: SAMPLE FOR ESD

Note: PCGS1900 GH661

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Defector	Comment
1		3754.000	53.81	4.11	57.92	82.22	-24.30	peak	
2	*	9406.000	50.58	17.66	68.44	82.22	-13.78	peak	

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

■Reference Only

File: M619(12-18-2006)\Data: #15

Page: 1

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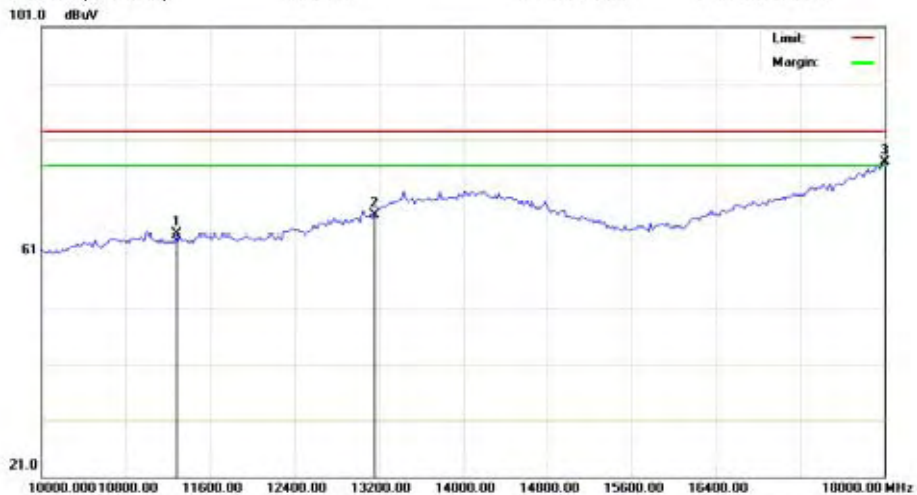
# Radiated Emission Measurement

File: M619(12-18-2006)

Data #16

Date: 2006/12/19

Time: 上午 10:21:58



Site: 966中電波暗室

Polarization: Horizontal

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PGS1800)

Power:

Humidity: 60 %

EUT: PDA

Distance: 3m

M/N: M619

Mode: SAMPLE FOR ESD

Note: PGS1800 GH661

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Defector	Comment
1		11280.00	42.26	21.83	64.09	82.22	-18.13	peak	
2		13160.00	42.30	25.15	67.45	82.22	-14.77	peak	
3	*	18000.00	42.51	34.60	77.11	82.22	-5.11	peak	

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

■Reference Only

File :M619(12-18-2006)\Data #16

Page: 1

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# Radiated Emission Measurement

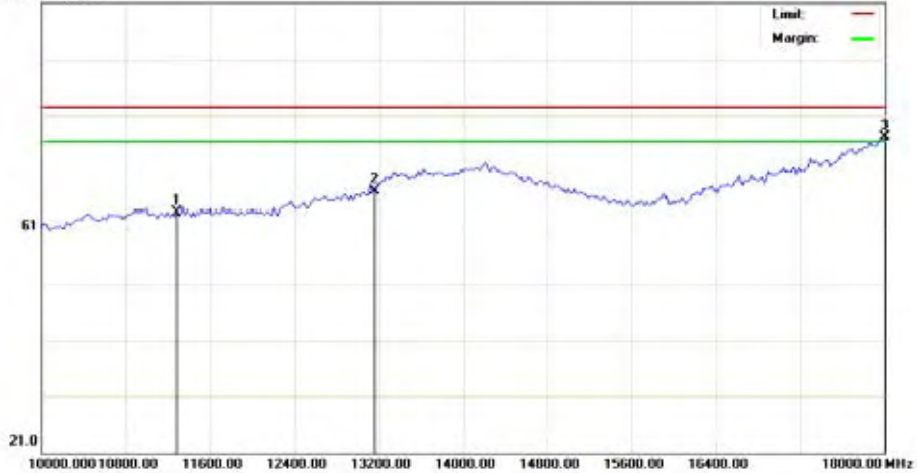
File: M619(12-18-2006)

Date: #23

Date: 2006/12/19

Time: 上午 11:15:46

101.0 dBuV



Site: 955中電波暗室

Polarization: **Vertical**

Temperature: 22℃

Limit: FCC Part 22 Spurious (PC91800)

Power:

Humidity: 60 %

EUT: PDA

Distance: 3m

M/N: M619

Mode: SAMPLE FOR ESD

Note: PC91800 GH661

No.	MK.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Defector	Comment
1		11280.00	41.97	21.83	63.80	82.22	-18.42	peak	
2		13160.00	42.44	25.15	67.59	82.22	-14.63	peak	
3	*	18000.00	42.64	34.60	77.24	82.22	-4.98	peak	

\*:Maximum data x:Over limit b:over margin

■Reference Only

File: M619(12-18-2006)\Data: #23

Page: 1

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# Radiated Emission Measurement

File: M619(12-18-2006)

Data #40

Date: 2006/12/19

Time: 下午 03:22:31



Site: 966中電波暗室

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PGS1800)

Power:

Humidity: 60 %

EUT: PDA

Distance: 3m

M/N: M619

Mode: SAMPLE FOR ESD

Note: PGS1800 GH810

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Offset or	Comment
1		48.3589	52.71	-12.05	40.66	82.22	-41.56	peak	
2	*	250.8600	53.42	-10.88	42.54	82.22	-39.68	peak	

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

■Reference Only

File: M619(12-18-2006)\Data #40

Page: 1

Engineer Signature:





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# Radiated Emission Measurement

File: M619(12-18-2006)

Order: #42

Date: 2006/12/19

Time: 下午 03:31:03



Site: 955中電波暗室

Polarization: *Horizontal*

Temperature: 22℃

Limit: FCC Part 22 Spurious (PC91800)

Power:

Humidity: 60%

EUT: PDA

Distance: 3m

M/N: M619

Mode: SAMPLE FOR ESD

Note: PC91800 GH810

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		104.5199	52.86	-12.05	40.81	82.22	-41.41	peak	
2		171.4798	53.67	-15.19	38.48	82.22	-43.74	peak	
3	*	290.8199	53.35	-10.04	43.31	82.22	-38.91	peak	

\*:Maximum data x:Over limit b:over margin

■Reference Only

File: M619(12-18-2006)\Data: #42

Page: 1

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# Radiated Emission Measurement

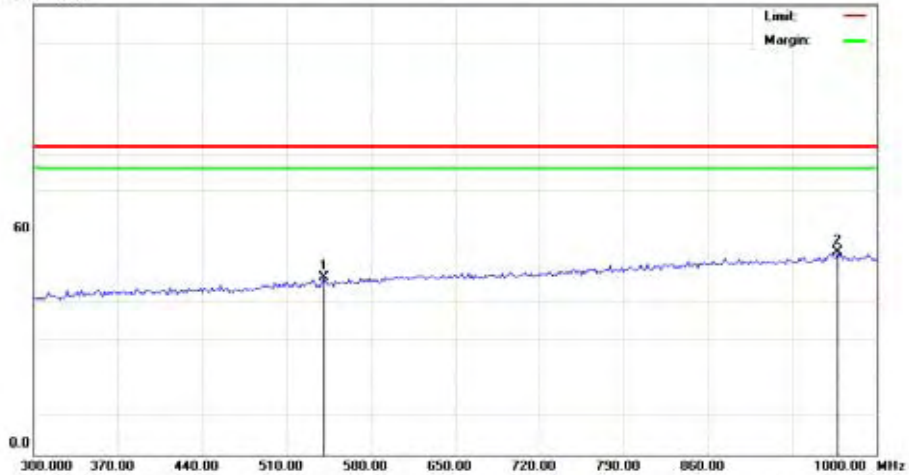
File: M619(12-18-2006)

Data: #41

Date: 2006/12/19

Time: 下午 03:26:47

120.0 dBuV



Site: 966中電波暗室

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PCS1800)

Power:

Humidity: 60 %

EUT: PDA

Distance: 3m

M/N: M619

Mode: SAMPLE FOR ESD

Note: PCS1800 GH8.10

No.	MK.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		540.7999	53.24	-6.04	47.20	82.22	-35.02	peak	
2	*	967.7999	53.32	0.71	54.03	82.22	-28.19	peak	

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

▲Reference Only

File: M619(12-18-2006)\Data: #41

Page: 1

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NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

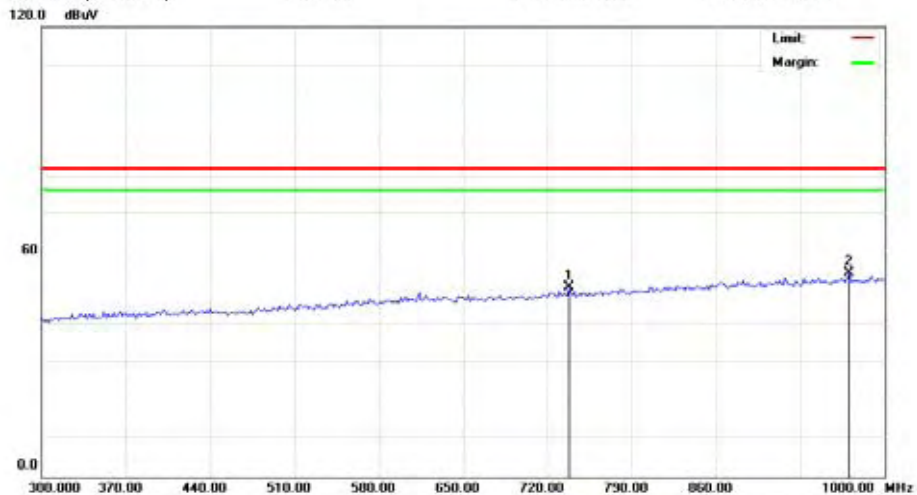
# Radiated Emission Measurement

File: M619(12-18-2006)

Data: #43

Date: 2006/12/19

Time: 下午 03:35:19



Site: 955中電波暗室

Polarization: Horizontal

Temperature: 22℃

Limit: FCC Part 22 Spurious (PC91800)

Power:

Humidity: 60 %

EUT: PDA

Distance: 3m

M/N: M619

Mode: SAMPLE FOR ESD

Note: PC91800 GH810

No.	MK.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		738.2000	53.88	-3.28	50.60	82.22	-31.62	peak	
2	*	970.6000	53.76	0.72	54.48	82.22	-27.74	peak	

\*: Maximum data x: Over limit b: over margin

■ Reference Only

File: M619(12-18-2006)\Data: #43

Page: 1

Engineer Signature:



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# Radiated Emission Measurement

File: M619(12-18-2006)

Data #30

Date: 2006/12/19

Time: 下午 12:00:52



Site: 966中電波暗室

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PGS1800)

Power:

Humidity: 60 %

EUT: PDA

Distance: 3m

M/N: M619

Mode: SAMPLE FOR ESD

Note: PGS1800 GH810

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Defector	Comment
1		1751.500	52.87	-3.58	49.29	82.22	-32.93	peak	
2	*	2584.000	49.76	0.55	50.31	82.22	-31.91	peak	

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

■Reference Only

File: M619(12-18-2006)\Data #30

Page: 1

Engineer Signature:



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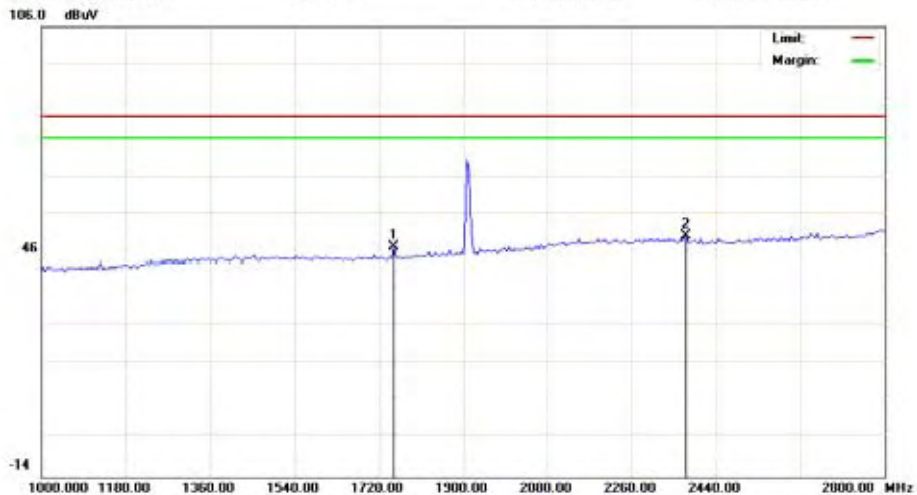
# Radiated Emission Measurement

File: M619(12-18-2006)

Data: #31

Date: 2006/12/19

Time: 下午 12:33:07



Site: 955中電波暗室

Polarization: *Horizontal*

Temperature: 22℃

Limit: FCC Part 22 Spurious (PCGS1800)

Power:

Humidity: 60%

EUT: PDA

Distance: 3m

M/N: M619

Mode: SAMPLE FOR ESD

Note: PCGS1800 GH810

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		1751.500	50.60	-3.58	47.02	82.22	-35.20	peak	
2	*	2377.000	50.04	0.06	50.10	82.22	-32.12	peak	

\*:Maximum data x:Over limit b:over margin

■Reference Only

File: M619(12-18-2006)\Data: #31

Page: 1

Engineer Signature:



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# Radiated Emission Measurement

File: M619(12-18-2006)

Data #17

Date: 2006/12/19

Time: 上午 10:35:38

106.0 dBuV



Site: 966半電波暗室

Polarization: Horizontal

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PCS1800)

Power:

Humidity: 60 %

EUT: PDA

Distance: 3m

M/N: M619

Mode: SAMPLE FOR ESD

Note: PCS1800 GH8.10

No.	MK.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	3826.000	53.29	4.20	57.49	82.22	-24.73	peak	

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

■Reference Only

File :M619(12-18-2006)\Data #17

Page: 1

Engineer Signature:





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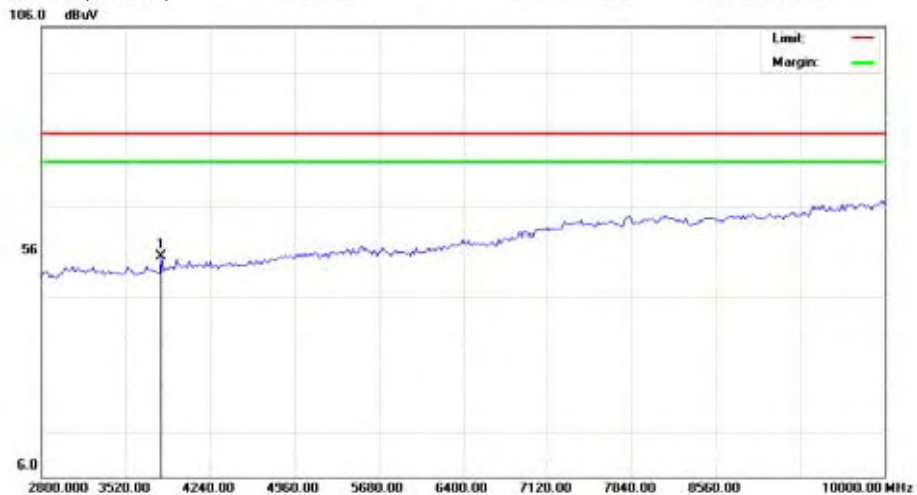
### Radiated Emission Measurement

File: M619(12-18-2006)

Data: #19

Date: 2006/12/19

Time: 上午 10:42:02



Site: 955中電波暗室

Polarization: **Vertical**

Temperature: 22°C

Limit: FCC Part 22 Spurious (PCGS1800)

Power:

Humidity: 60 %

EUT: PDA

Distance: 3m

M/N: M619

Mode: SAMPLE FOR ESD

Note: PCGS1900 GH810

No.	MK.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Defector	Comment
1	*	3826.000	50.87	4.20	55.07	82.22	-27.15	peak	

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

■ Reference Only

File: M619(12-18-2006)\Data: #19

Page: 1

Engineer Signature:



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NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

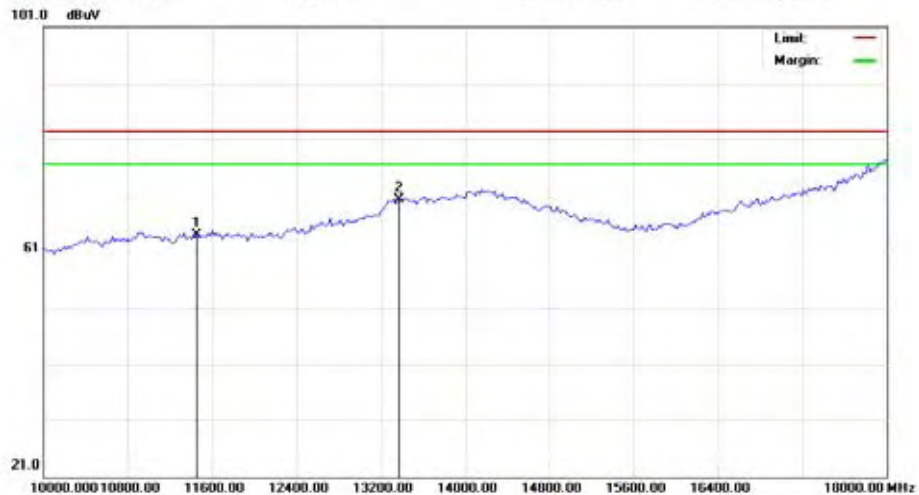
#### Radiated Emission Measurement

File: M619(12-18-2006)

Data #18

Date: 2006/12/19

Time: 上午 10:38:26



Site: 966中電波暗室

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PGS1800)

Power:

Humidity: 60 %

EUT: PDA

Distance: 3m

M/N: M619

Mode: SAMPLE FOR ESD

Note: PGS1800 GH810

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Offset or	Comment
1		11458.80	41.62	22.19	63.81	82.22	-18.41	peak	
2	*	13368.60	43.10	27.15	70.25	82.22	-11.97	peak	

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

■Reference Only

File: M619(12-18-2006)\Data: #18

Page: 1

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# Radiated Emission Measurement

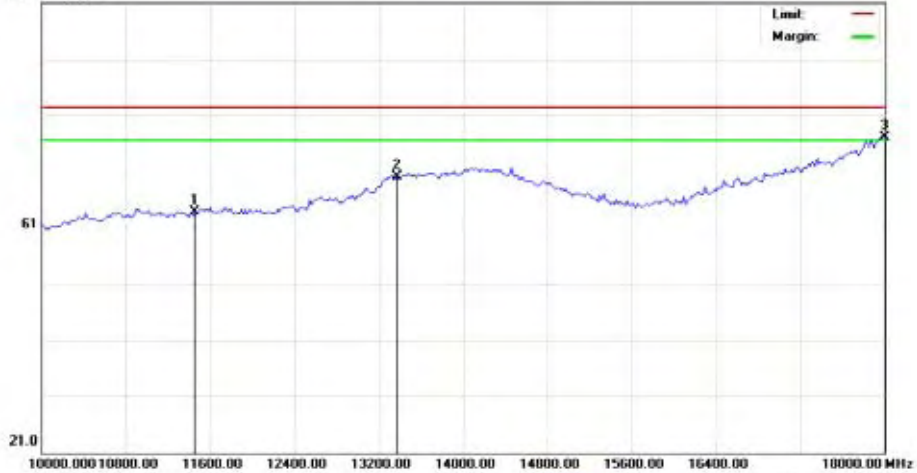
File: M619(12-18-2006)

Order: #21

Date: 2006/12/19

Time: 上午 10:44:03

101.0 dBuV



Site: 955中電波暗室

Polarization: **Vertical**

Temperature: 22℃

Limit: FCC Part 22 Spurious (PC91800)

Power:

Humidity: 60%

EUT: PDA

Distance: 3m

M/N: M619

Mode: SAMPLE FOR ESD

Note: PC91800 GH810

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		11458.80	41.54	22.19	63.73	82.22	-18.49	peak	
2		13368.60	42.93	27.15	70.08	82.22	-12.14	peak	
3	*	18000.00	42.27	34.60	76.87	82.22	-5.35	peak	

\*:Maximum data x:Over limit b:over margin

■Reference Only

File: M619(12-18-2006)\Data: #21

Page: 1

Engineer Signature:



#### 4.6.4.4 PCS 1900 + GPRS Test Result

Applicant : Inventec Corporation

Model No : Mercury 619

EUT : PDA PHONE

Test Mode : PCS 1900 + GPRS (Low CH512 / Middle CH661 / High CH 810)

Test Date : 01/08/2007

Please refer to next pager of detail testing data.



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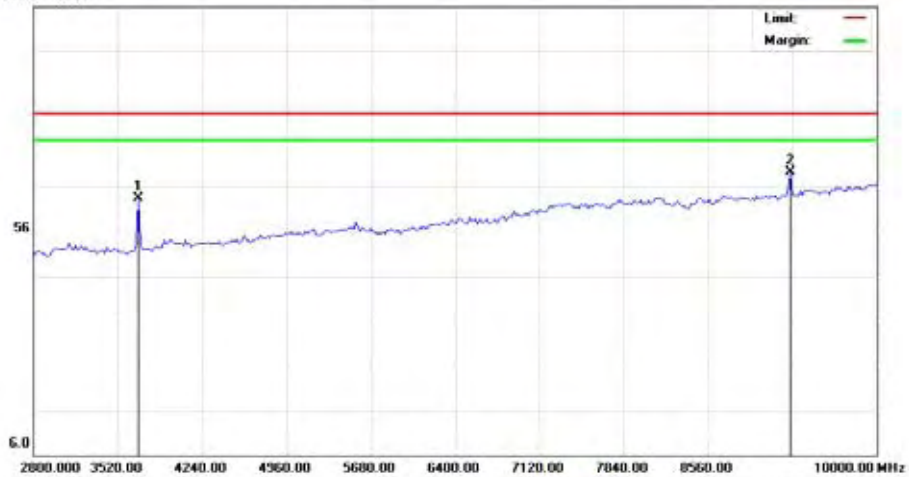
# Radiated Emission Measurement

File: M619(01-08-2007)  
106.0 dBuV

Data #13

Date: 2007/01/08

Time: 17:29:39



Site: 965中電波暗室

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PGS1800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PGS 1900 GH512(1850.2MHz)

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		3700.000	58.86	4.50	63.46	82.22	-18.76	peak	
2	*	8262.000	51.60	17.28	68.88	82.22	-13.34	peak	

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

Reference Only

File: M619(01-08-2007)\Data #13

Page: 1

Engineer Signature:



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NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

# Radiated Emission Measurement

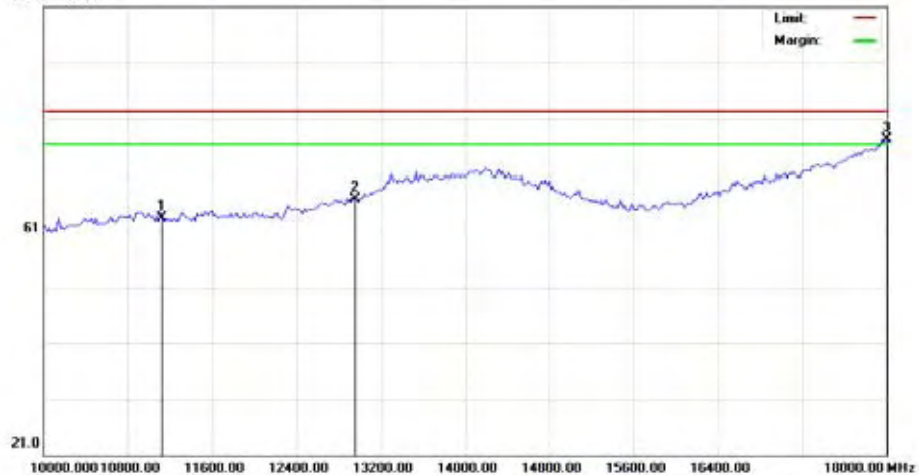
File: M619(01-08-2007)

Data: #14

Date: 2007/01/06

Time: 17:32:21

101.0 dBuV



Site: 955中電波暗室

Polarization: *Horizontal*

Temperature: 22℃

Limit: FCC Part 22 Spurious (PC91800)

Power:

Humidity: 60%

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PC9 1900 GH512(1850.2MHz)

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Defector	Comment
1		11101.20	41.88	21.39	63.27	82.22	-18.95	peak	
2		12951.40	42.59	24.15	66.74	82.22	-15.48	peak	
3	*	18000.00	42.66	34.60	77.26	82.22	-4.96	peak	

\*:Maximum data x:Over limit :lower margin

▲Reference Only

File: M619(01-08-2007)Data: #14

Page: 1

Engineer Signature:





A Test Lab Techno Corp.  
Tel: +886-3-271-0188 Fax: +886-3-271-0190  
NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan,

# Radiated Emission Measurement

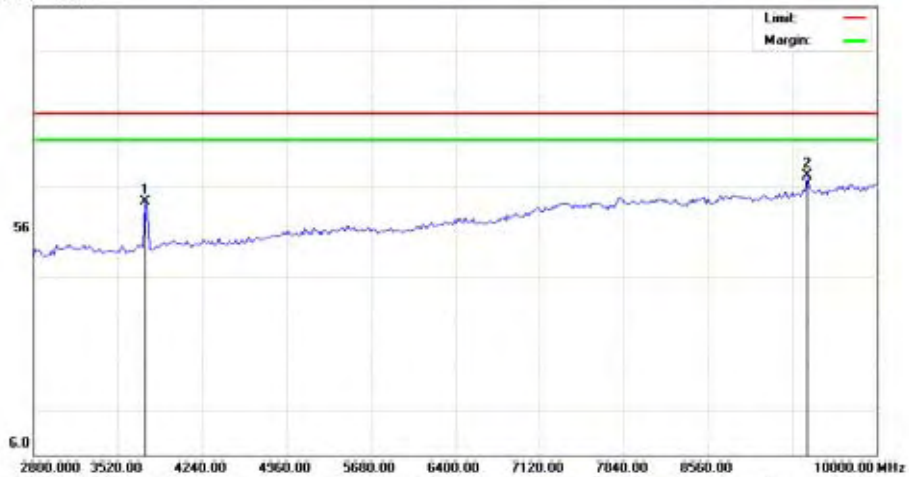
File: M619(01-08-2007)

Data #15

Date: 2007/01/06

Time: 17:41:17

106.0 dBuV



Site: 966半電波暗室

Polarization: *Horizontal*

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PC91800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 GH661(1880MHz)

No.	M.K.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		3754.000	58.62	4.11	62.73	82.22	-19.49	peak	
2	*	9406.000	50.34	17.86	68.20	82.22	-14.02	peak	

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

■Reference Only

File: M619(01-08-2007)\Data #15

Page: 1

Engineer Signature:



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Tel: +886-3-271-0188 Fax: +886-3-271-0190  
NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

# Radiated Emission Measurement

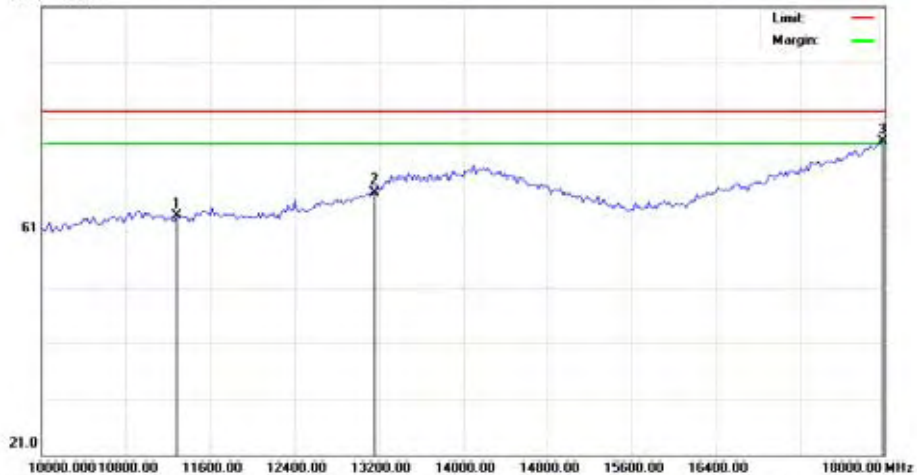
File: M619(01-08-2007)

Data #16

Date: 2007/01/06

Time: 17:43:27

101.0 dBuV



Site: 966半電波暗室

Polarization: Horizontal

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PC51800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 GH661(1880MHz)

No.	MK.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		11280.00	41.82	21.83	63.65	82.22	-18.57	peak	
2		13160.00	42.69	25.15	67.84	82.22	-14.38	peak	
3	*	17980.00	42.48	34.52	77.00	82.22	-5.22	peak	

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

■Reference Only

File: M619(01-08-2007)\Data #16

Page: 1

Engineer Signature:



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Tel: +886-3-271-0188 Fax: +886-3-271-0190  
NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

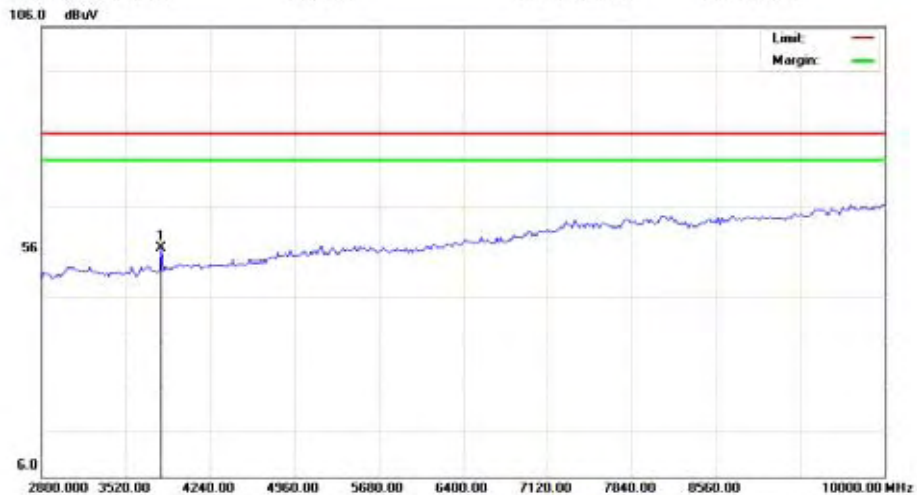
# Radiated Emission Measurement

File: M619(01-08-2007)

Data #17

Date: 2007/01/08

Time: 17:51:34



Site: 966中電波暗室

Polarization: Horizontal

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PCS1800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 GH810(1909.2MHz)

No.	M.K.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	3826.000	52.38	4.20	56.58	82.22	-25.64	peak	

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

■Reference Only

File: M619(01-08-2007)\Data #17

Page: 1

Engineer Signature:

# Radiated Emission Measurement

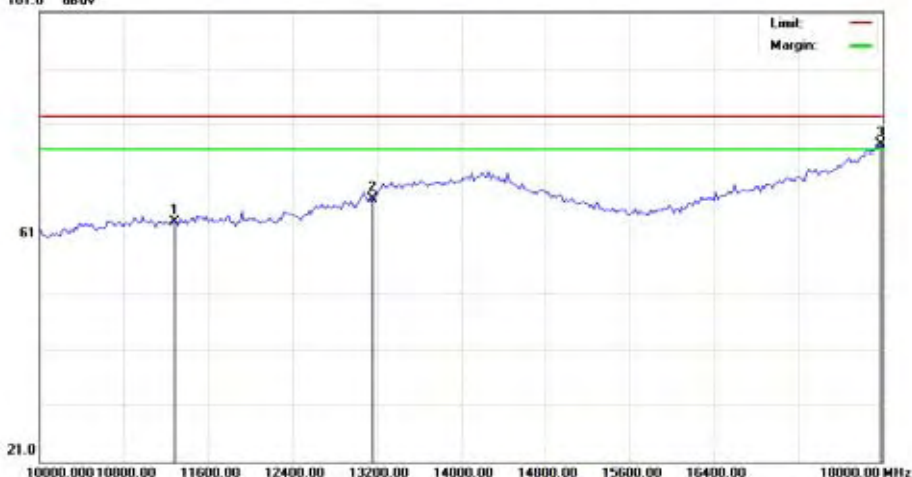
File: M619(01-08-2007)

Data #18

Date: 2007/01/08

Time: 17:53:26

101.0 dBuV



Site: 966半電波暗室

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PC51800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 GH810(1909.2MHz)

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		11280.00	41.63	21.83	63.46	82.22	-18.76	peak	
2		13160.00	42.51	25.15	67.66	82.22	-14.56	peak	
3	*	17980.00	42.87	34.52	77.39	82.22	-4.83	peak	

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

■Reference Only

File: M619(01-08-2007)\Data #18

Page: 1

Engineer Signature:



A Test Lab Techno Corp.  
Tel: +886-3-271-0188 Fax: +886-3-271-0190  
NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan,

# Radiated Emission Measurement

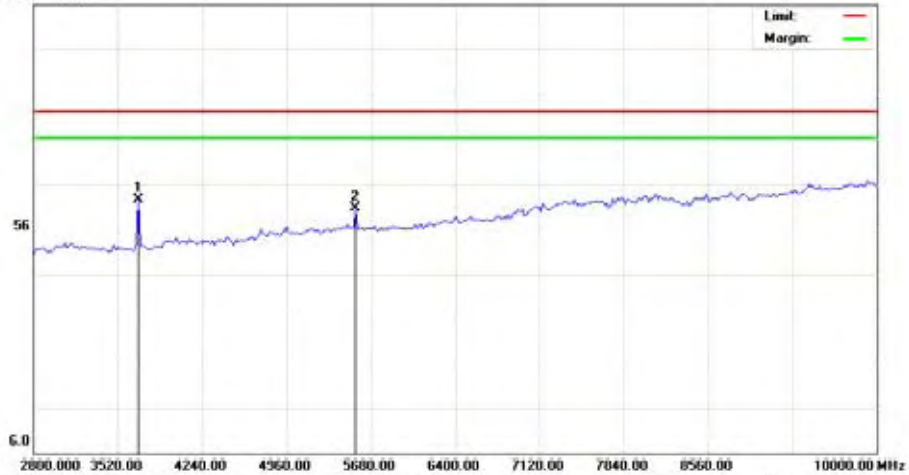
File: M619(01-08-2007)

Data #19

Date: 2007/01/06

Time: 16:19:09

106.0 dBuV



Site: 966半電波暗室

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PC91800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 GH512(1850.2MHz)

No.	M.K.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	3700.000	58.13	4.60	62.73	82.22	-19.49	peak	
2		5554.000	51.07	9.61	60.68	82.22	-21.54	peak	

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

■Reference Only

File: M619(01-08-2007)\Data #19

Page: 1

Engineer Signature:



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NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

# Radiated Emission Measurement

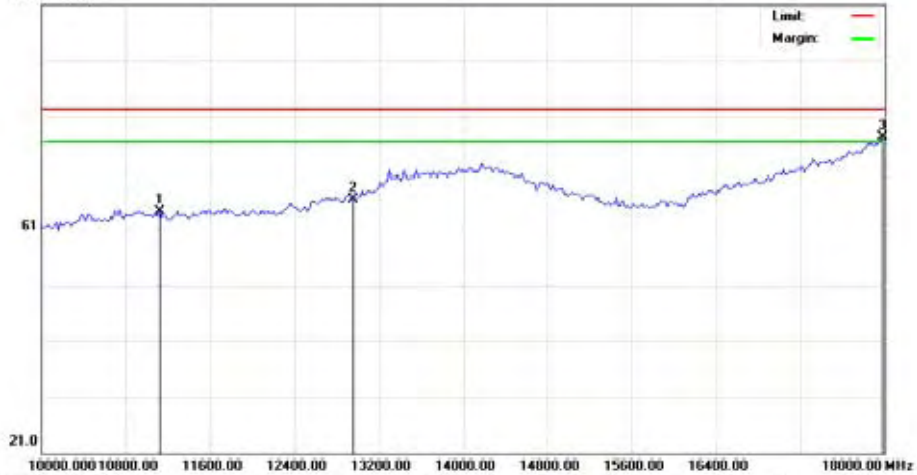
File: M619(01-08-2007)

Data: #20

Date: 2007/01/08

Time: 162325

101.0 dBuV



Site: 966半電波暗室

Polarization: Vertical

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PC51800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 GH512(1850.2MHz)

No.	MK.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		11101.20	42.77	21.39	64.16	82.22	-18.06	peak	
2		12951.40	42.24	24.15	66.39	82.22	-15.83	peak	
3	*	17980.00	42.78	34.52	77.30	82.22	-4.92	peak	

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

Reference Only

File: M619(01-08-2007)\Data: #20

Page: 1

Engineer Signature:





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Tel: +886-3-271-0188 Fax: +886-3-271-0190  
NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

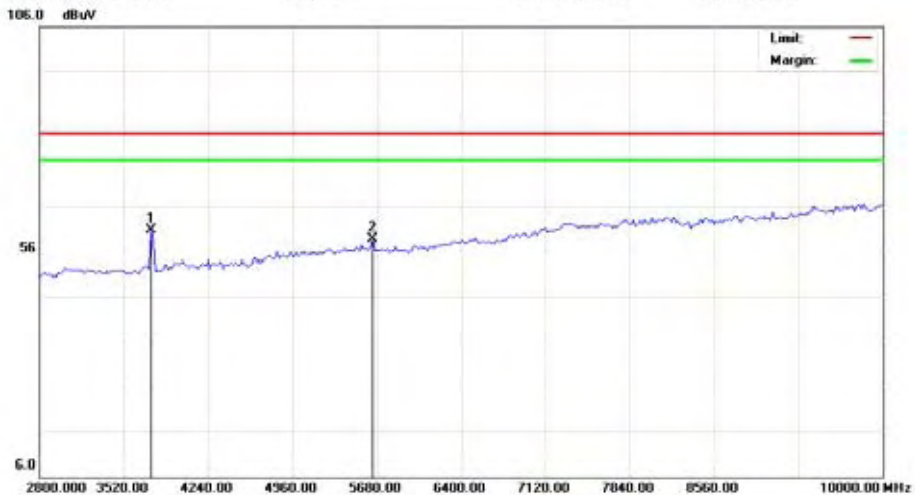
# Radiated Emission Measurement

File :M619(01-08-2007)

Data #21

Date: 2007/01/08

Time: 18:27:33



Site: 966中電波暗室

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PCS1800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 CH661(1880MHz)

No.	M.K.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measure- ment dBμV	Limit dBμV	Over dB	Detector	Comment
1	*	3754.000	56.41	4.11	60.52	82.22	-21.70	peak	
2		5644.000	49.30	9.43	58.73	82.22	-23.49	peak	

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

■Reference Only

File :M619(01-08-2007)\Data #21

Page: 1

Engineer Signature:



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Tel: +886-3-271-0188 Fax: +886-3-271-0190  
NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

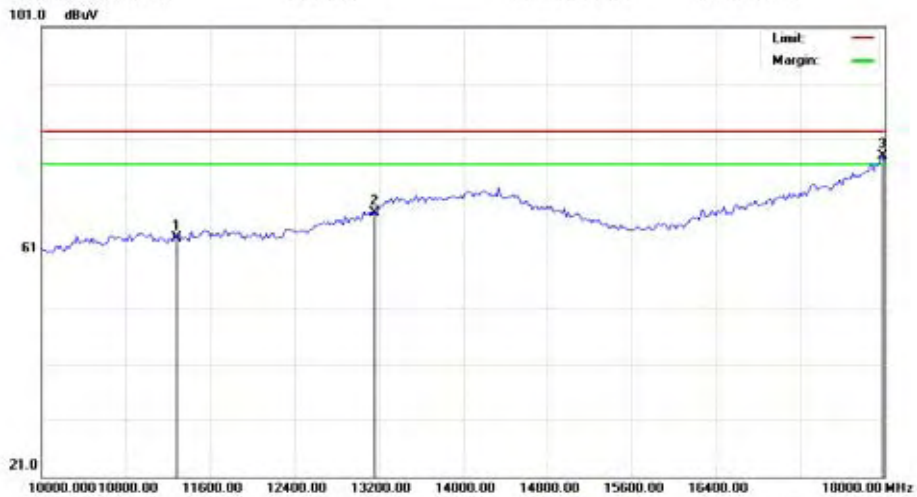
# Radiated Emission Measurement

File: M619(01-08-2007)

Data #22

Date: 2007/01/08

Time: 18:30:04



Site: 966半電波暗室

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PC51800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 GH561(1880MHz)

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		11280.00	41.55	21.83	63.38	82.22	-18.84	peak	
2		13160.00	42.72	25.15	67.87	82.22	-14.35	peak	
3	*	17980.00	43.48	34.52	78.00	82.22	-4.22	peak	

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

■Reference Only

File: M619(01-08-2007)\Data #22

Page: 1

Engineer Signature:



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NO.140-1,Changan Street,Bade City,Taoyuan County 344,Taiwan,

# Radiated Emission Measurement

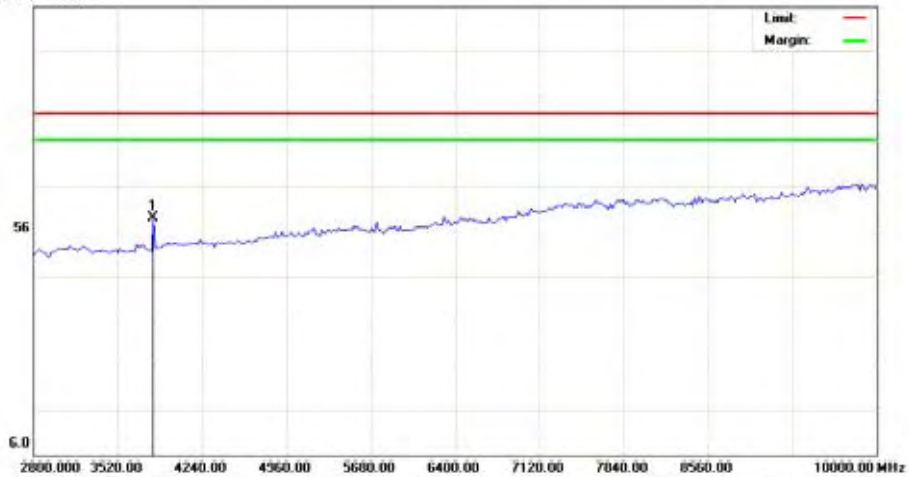
File: M619(01-08-2007)

Data #23

Date: 2007/01/06

Time: 16:34:02

106.0 dBuV



Site: 966半電波暗室

Polarization: Vertical

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PC91800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 CH810(1908.2MHz)

No.	M.K.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	3826.000	54.61	4.20	58.81	82.22	-23.41	peak	

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

Reference Only

File: M619(01-08-2007)\Data #23

Page: 1

Engineer Signature:



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NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

# Radiated Emission Measurement

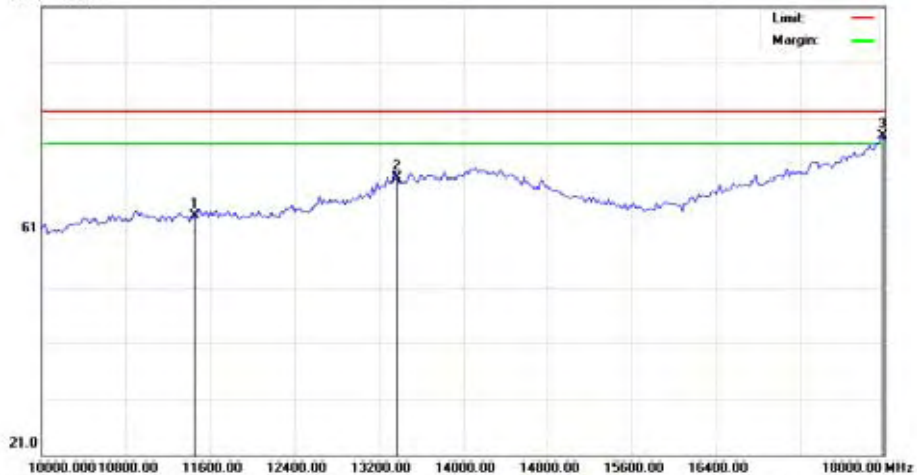
File: M619(01-08-2007)

Data: #24

Date: 2007/01/06

Time: 16:35:59

101.0 dBuV



Site: 966半電波暗室

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PGS1800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PGS 1900 CH810(1909.2MHz)

No.	MK.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		11455.20	41.52	22.16	63.68	82.22	-18.54	peak	
2		13364.40	43.22	27.15	70.37	82.22	-11.85	peak	
3	*	17980.00	43.34	34.52	77.86	82.22	-4.36	peak	

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

▲Reference Only

File: M619(01-08-2007)\Data: #24

Page: 1

Engineer Signature:



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NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

# Radiated Emission Measurement

File: M619(01-08-2007)

Data #25

Date: 2007/01/08

Time: 19:17:30



Site: 966中電波暗室

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PCS1800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 CH512(1850.2MHz)

No.	M.K.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measure- ment dBμV	Limit dBμV	Over dB	Detector	Comment
1		1693.000	54.53	-3.53	50.90	82.22	-31.32	peak	
2	*	1931.500	67.95	-2.26	65.69	82.22	-16.53	peak	

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

■Reference Only

File: M619(01-08-2007)\Data #25

Page: 1

Engineer Signature:



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Tel: +886-3-271-0188 Fax: +886-3-271-0190  
NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

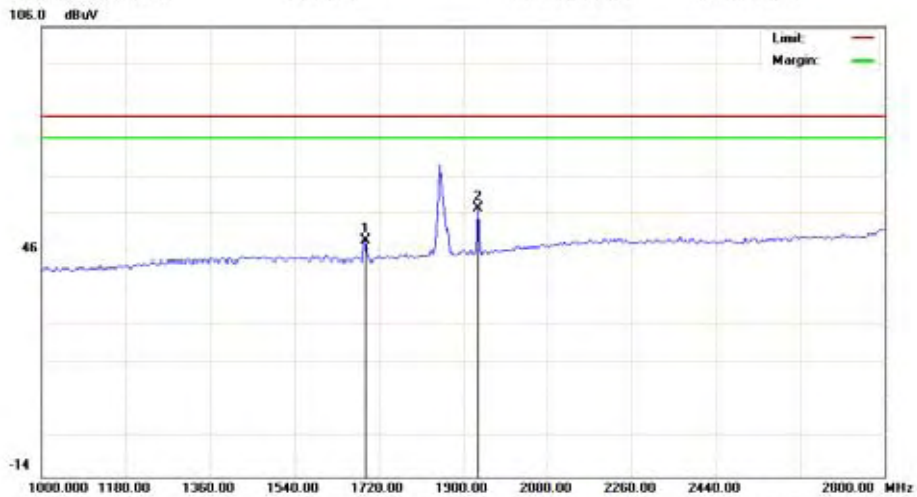
# Radiated Emission Measurement

File: M619(01 08 2007)

Data #26

Date: 2007/01/08

Time: 19:21:24



Site: 966半電波暗室

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PCGS1800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 GH512(1850.2MHz)

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		1693.000	52.41	-3.53	48.78	82.22	-33.44	peak	
2	*	1931.500	59.72	-2.26	57.46	82.22	-24.76	peak	

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

■Reference Only

File: M619(01-08-2007)\Data #26

Page: 1

Engineer Signature:





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Tel: +886-3-271-0188 Fax: +886-3-271-0190  
NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan,

# Radiated Emission Measurement

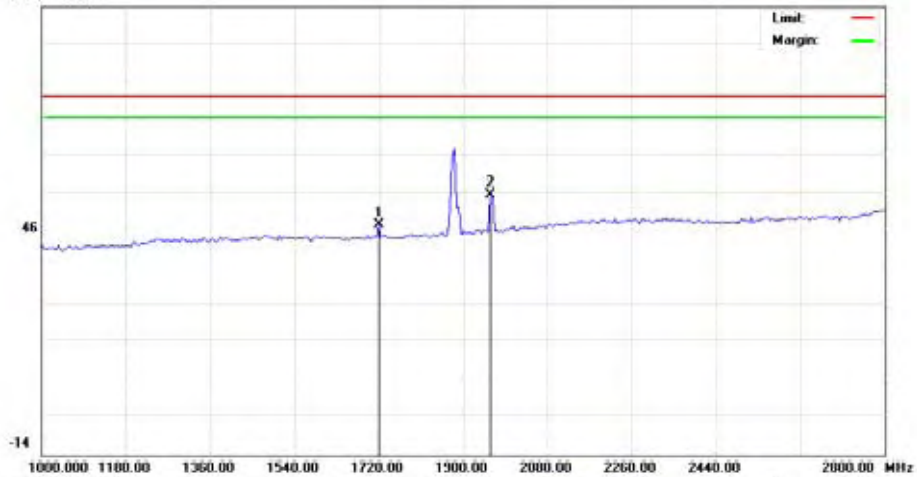
File: M619(01-08-2007)

Data #27

Date: 2007/01/06

Time: 19:32:21

106.0 dBuV



Site: 966半電波暗室

Polarization: Horizontal

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PC91800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 CH661(1880MHz)

No.	M.K.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		1720.000	51.26	-3.58	47.68	82.22	-34.54	peak	
2	*	1958.500	57.74	-2.06	55.68	82.22	-26.54	peak	

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

■Reference Only

File: M619(01-08-2007)\Data #27

Page: 1

Engineer Signature:



A Test Lab Techno Corp.  
Tel: +886-3-271-0188 Fax: +886-3-271-0190  
NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

# Radiated Emission Measurement

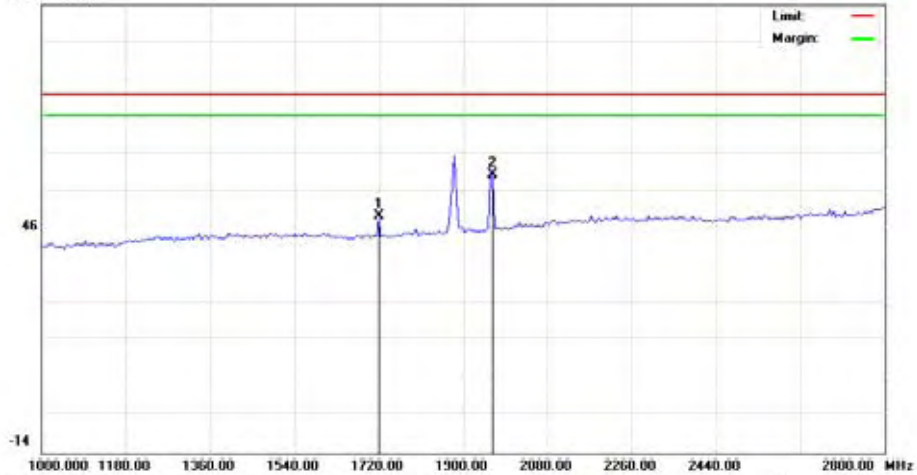
File: M619(01 08 2007)

Data: #28

Date: 2007/01/08

Time: 19:35:52

106.0 dBuV



Site: 966半電波暗室

Polarization: Vertical

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PC91800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 CH661(1850MHz)

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		1720.000	53.12	-3.58	49.54	82.22	-32.68	peak	
2	*	1963.000	62.35	-2.02	60.33	82.22	-21.89	peak	

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

■Reference Only

File: M619(01-08-2007)\Data: #28

Page: 1

Engineer Signature:



A Test Lab Techno Corp.  
Tel: +886-3-271-0188 Fax: +886-3-271-0190  
NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

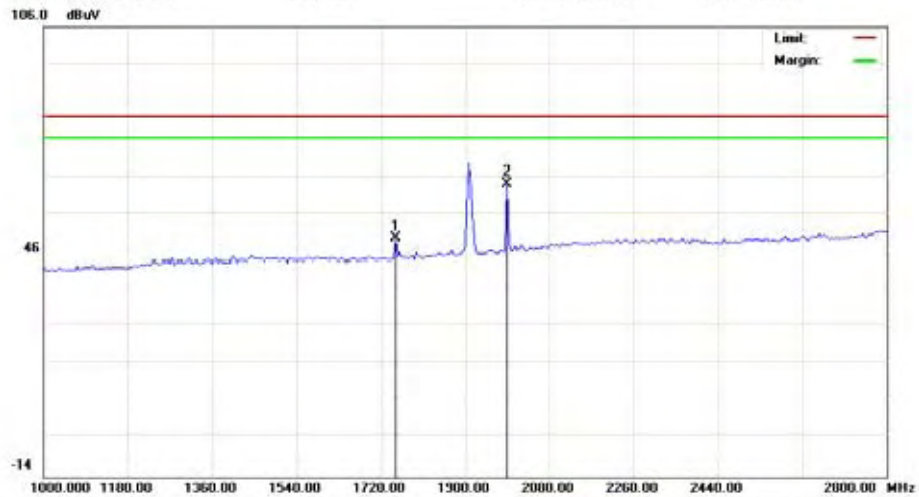
# Radiated Emission Measurement

File: M619(01-08-2007)

Data #29

Date: 2007/01/08

Time: 19:53:57



Site: 966中電波暗室

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PCS1800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 CH810(1909.2MHz)

No.	M.K.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measure- ment dBμV	Limit dBμV	Over dB	Detector	Comment
1		1751.500	53.10	-3.58	49.52	82.22	-32.70	peak	
2	*	1990.000	66.09	-1.80	64.29	82.22	-17.93	peak	

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

■Reference Only

File: M619(01-08-2007)\Data #29

Page: 1

Engineer Signature:



A Test Lab Techno Corp.  
Tel: +886-3-271-0188 Fax: +886-3-271-0190  
NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

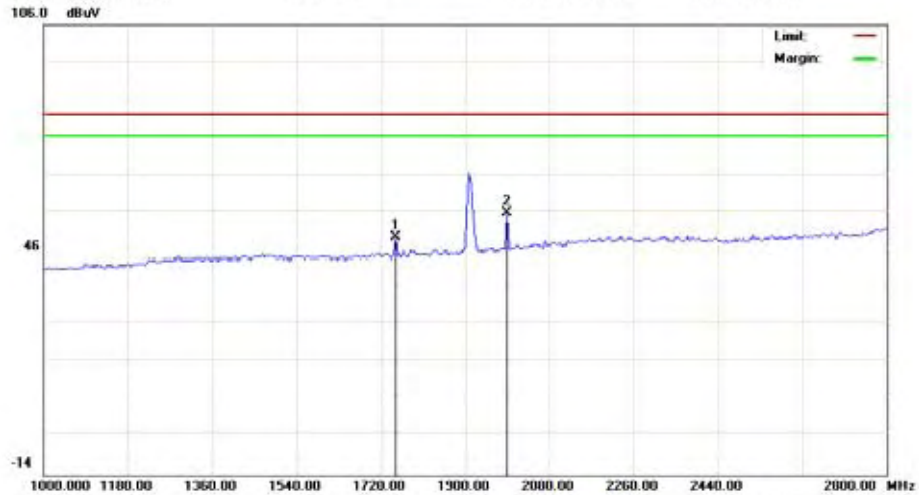
# Radiated Emission Measurement

File: M619(01 08 2007)

Data #30

Date: 2007/01/08

Time: 19:55:57



Site: 966半電波暗室

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PCGS1800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 GH810(1909.2MHz)

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		1751.500	52.86	-3.58	49.28	82.22	-32.94	peak	
2	*	1990.000	57.66	-1.80	55.86	82.22	-26.36	peak	

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

■Reference Only

File: M619(01-08-2007)\Data: #30

Page: 1

Engineer Signature:



A Test Lab Techno Corp.  
Tel: +886-3-271-0188 Fax: +886-3-271-0190  
NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan,

# Radiated Emission Measurement

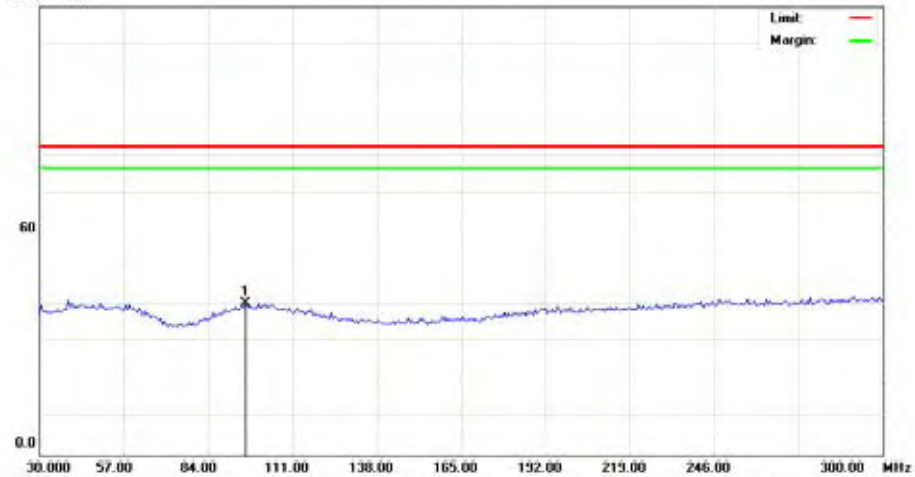
File: M619(01-08-2007)

Data #31

Date: 2007/01/09

Time: 11:27:24

120.0 dBuV



Site: 966半電波暗室

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PC91800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 CH512(1850.2MHz)

No.	M.K.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	95.8800	52.60	-11.99	40.61	82.22	-41.61	peak	

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

■Reference Only

File: M619(01-08-2007)\Data #31

Page: 1

Engineer Signature:



A Test Lab Techno Corp.  
Tel: +886-3-271-0188 Fax: +886-3-271-0190  
NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

# Radiated Emission Measurement

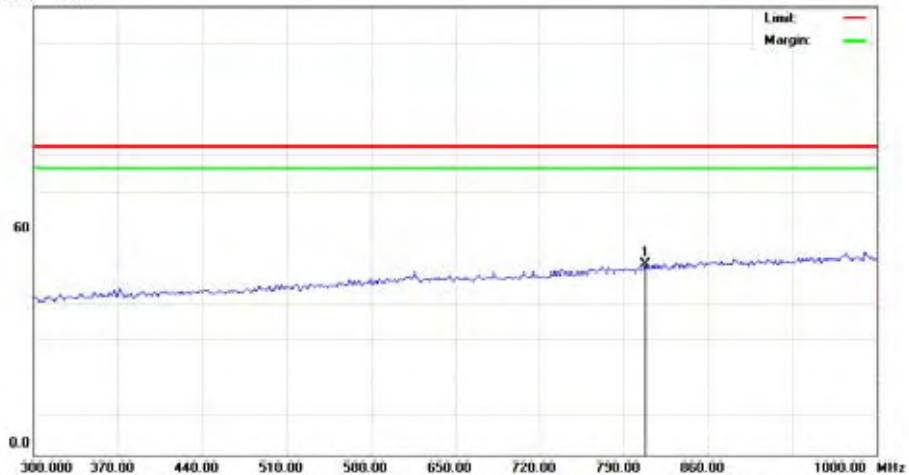
File: M619(01-08-2007)

Data: #32

Date: 2007/01/09

Time: 11:31:40

120.0 dBuV



Site: 966半電波暗室

Polarization: Vertical

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PC51800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 CH512(1850.2MHz)

No.	MK.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	808.2000	52.64	-1.82	50.82	82.22	-31.40	peak	

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

■Reference Only

File: M619(01-08-2007)\Data: #32

Page: 1

Engineer Signature:





A Test Lab Techno Corp.  
Tel: +886-3-271-0188 Fax: +886-3-271-0190  
NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

# Radiated Emission Measurement

File: M619(01-08-2007)

Data #33

Date: 2007/01/09

Time: 11:35:56



Site: 966中電波暗室

Polarization: *Horizontal*

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PCS1800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1800 CH512(1850.2MHz)

No.	M.K.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	103.4400	53.17	-11.98	41.19	82.22	-41.03	peak	

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

■Reference Only

File: M619(01-08-2007)\Data #33

Page: 1

Engineer Signature:



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NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

# Radiated Emission Measurement

File: M619(01-08-2007)

Data #34

Date: 2007/01/09

Time: 11:40:11



Site: 966牛電波暗室

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PC51800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 CH512(1850.2MHz)

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	768.0000	52.72	-2.65	50.07	82.22	-32.15	peak	

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

■Reference Only

File: M619(01-08-2007)\Data #34

Page: 1

Engineer Signature:



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NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan,

### Radiated Emission Measurement

File: M619(01-08-2007)

Data #35

Date: 2007/01/09

Time: 11:45:58

120.0 dBuV



Site: 966半電波暗室

Polarization: *Vertical*

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PC91800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 CH661(1880MHz)

No.	M.K.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	44.0400	53.03	-11.84	41.19	82.22	-41.03	peak	

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

■Reference Only

File: M619(01-08-2007)\Data #35

Page: 1

Engineer Signature:



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Tel: +886-3-271-0188 Fax: +886-3-271-0190  
NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

# Radiated Emission Measurement

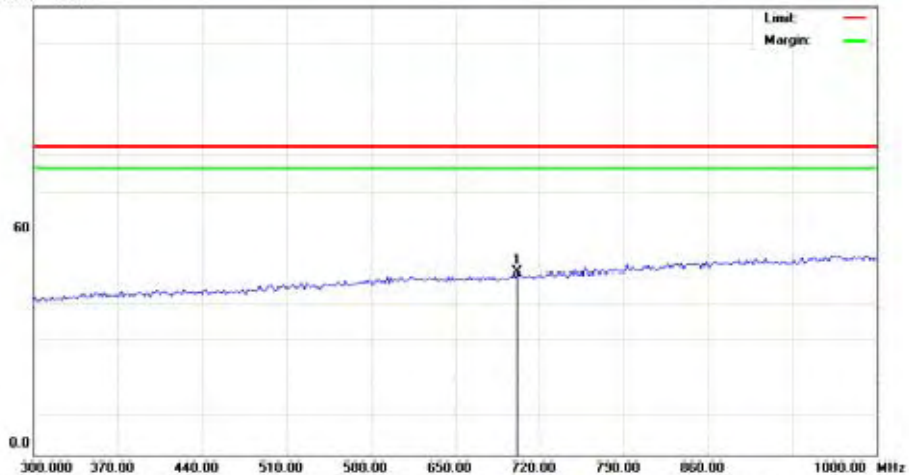
File: M619(01-08-2007)

Data: #36

Date: 2007/01/09

Time: 11:50:13

120.0 dBuV



Site: 966半電波暗室

Polarization: *Vertical*

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PC91800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 CH661(1850MHz)

No.	MK.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	701.8000	52.70	-3.92	48.78	82.22	-33.44	peak	

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

■Reference Only

File: M619(01-08-2007)\Data: #36

Page: 1

Engineer Signature:



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# Radiated Emission Measurement

File: M619(01-08-2007)

Data #37

Date: 2007/01/09

Time: 11:54:29



Site: 966中電波暗室

Polarization: Horizontal

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PCS1800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1800 CH661(1880MHz)

No.	M.K.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Defector	Comment
1	*	98.5800	53.01	-11.84	41.17	52.22	-41.05	peak	

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

■Reference Only

File: M619(01-08-2007)\Data #37

Page: 1

Engineer Signature:



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Tel: +886-3-271-0188 Fax: +886-3-271-0190  
NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

# Radiated Emission Measurement

File: M619(01-08-2007)

Data #37

Date: 2007/01/09

Time: 11:54:29



Site: 966中電波暗室

Polarization: *Horizontal*

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PCS1800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1800 CH661(1880MHz)

No.	M.K.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Defector	Comment
1	*	98.5800	53.01	-11.84	41.17	52.22	-41.05	peak	

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

■Reference Only

File: M619(01-08-2007)\Data #37

Page: 1

Engineer Signature:





A Test Lab Techno Corp.  
Tel: +886-3-271-0188 Fax: +886-3-271-0190  
NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan,

#### Radiated Emission Measurement

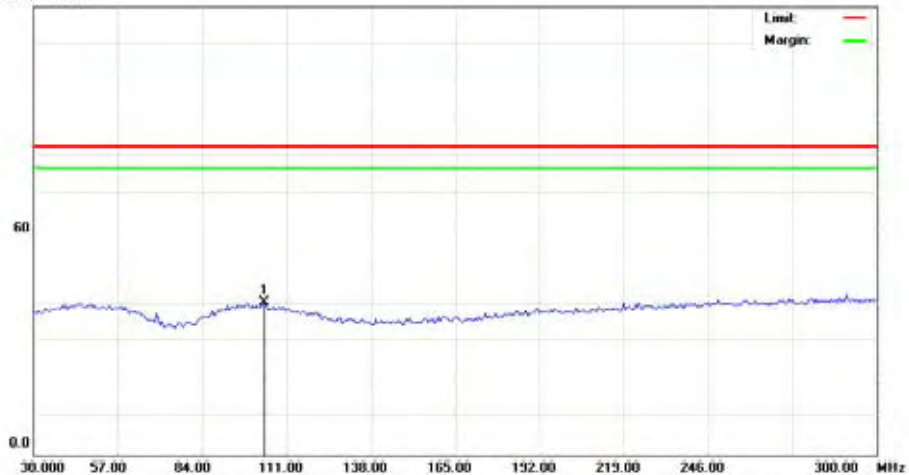
File: M619(01-08-2007)

Data #39

Date: 2007/01/09

Time: 12:04:46

120.0 dBuV



Site: 966半電波暗室

Polarization: *Vertical*

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PC91800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 CH810(1908.2MHz)

No.	M.K.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	103.8800	52.86	-12.02	40.84	82.22	-41.38	peak	

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

■Reference Only

File: M619(01-08-2007)\Data #39

Page: 1

Engineer Signature:



A Test Lab Techno Corp.  
Tel: +886-3-271-0188 Fax: +886-3-271-0190  
NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

# Radiated Emission Measurement

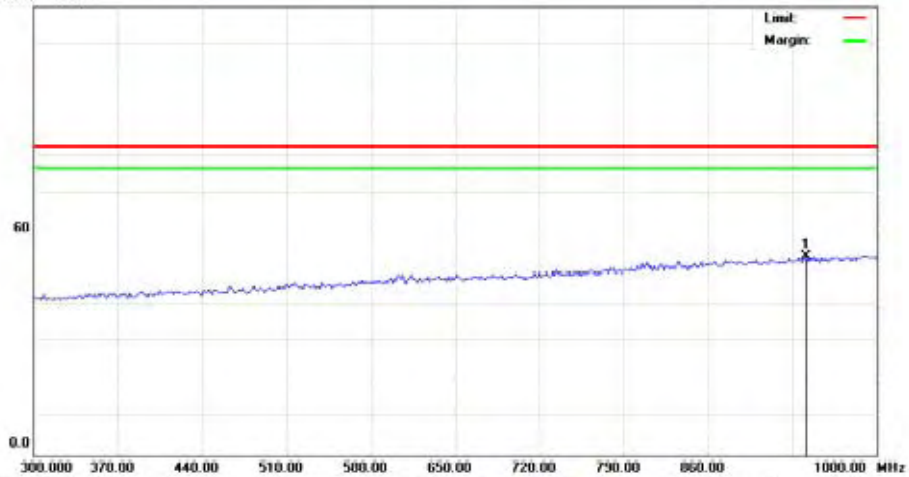
File: M619(01-08-2007)

Data: #40

Date: 2007/01/09

Time: 12:09:01

120.0 dBuV



Site: 966半電波暗室

Polarization: *Vertical*

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PCGS1800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 CH810(1909.2MHz)

No.	MK.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	941.2000	52.74	0.28	53.02	82.22	-29.20	peak	

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

■Reference Only

File: M619(01-08-2007)\Data: #40

Page: 1

Engineer Signature:



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# Radiated Emission Measurement

File: M619(01-08-2007)

Data #41

Date: 2007/01/09

Time: 12:13:16



Site: 966中電波暗室

Polarization: *Horizontal*

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PCS1800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1800 CH810(1908.2MHz)

No.	M.K.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	41.8800	52.98	-11.87	41.11	82.22	-41.11	peak	

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

■Reference Only

File: M619(01-08-2007)\Data #41

Page: 1

Engineer Signature:



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### Radiated Emission Measurement

File: M619(01 08 2007)

Data #42

Date: 2007/01/09

Time: 12:17:33



Site: 966半電波暗室

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Part 22 Spurious (PC51800)

Power:

Humidity: 60 %

EUT: PDA PHONE

Distance: 3m

M/N:

Mode:

Note: PCS 1900 GH810(1909.2MHz)

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	939.8000	52.69	0.27	52.96	82.22	-29.26	peak	

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

■Reference Only

File: M619(01-08-2007)\Data #42

Page: 1

Engineer Signature:

## 4.7 Frequency Stability (Temperature Variation)

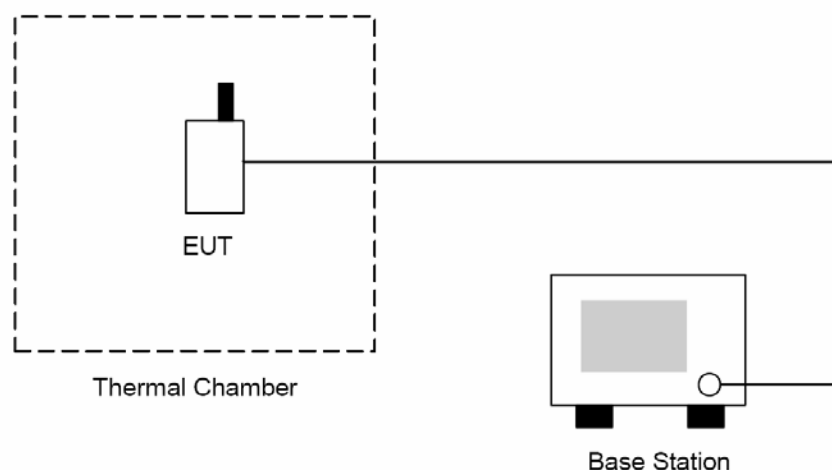
### 4.7.1 Measurement Instrument

As described in chapter 5 of this test report.

### 4.7.2 Test Procedure

1. The EUT and test equipment were set up as shown on the following section.
2. With all power removed, the temperature was decreased to  $-30^{\circ}\text{C}$  and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was note within one minute.
3. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change was noted within one minute.
4. The temperature tests were performed for the worst case.
5. Test data was recorded.

### 4.7.3 Test Setup Layout





#### 4.7.4 Test Result

Test Mode: GSM 850 CH190

Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	33.41	0.039	0.1
-20	36.15	0.043	0.1
-10	38.44	0.046	0.1
0	32.16	0.038	0.1
10	30.48	0.036	0.1
20	31.14	0.037	0.1
30	33.95	0.041	0.1
40	38.63	0.046	0.1
50	34.77	0.042	0.1

Test Mode: GSM 850 + GPRS CH190

Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	22.17	0.027	0.1
-20	22.56	0.026	0.1
-10	33.1	0.039	0.1
0	15.18	0.018	0.1
10	24.66	0.029	0.1
20	28.18	0.033	0.1
30	38.65	0.046	0.1
40	32.12	0.038	0.1
50	34.61	0.041	0.1





Test Mode: PCS 1900 CH661

Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	613.61	0.33	1
-20	641.72	0.34	1
-10	548.33	0.29	1
0	447.19	0.24	1
10	681.54	0.36	1
20	733.21	0.39	1
30	645.56	0.34	1
40	483.86	0.26	1
50	643.21	0.34	1

Test Mode: PCS 1900 + GPRS CH661

Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	133.61	0.071	1
-20	121.6	0.064	1
-10	101.45	0.053	1
0	100.84	0.053	1
10	211.83	0.112	1
20	216.72	0.115	1
30	150.44	0.08	1
40	150.83	0.08	1
50	162.41	0.086	1

## 4.8 Frequency Stability (Voltage Variation)

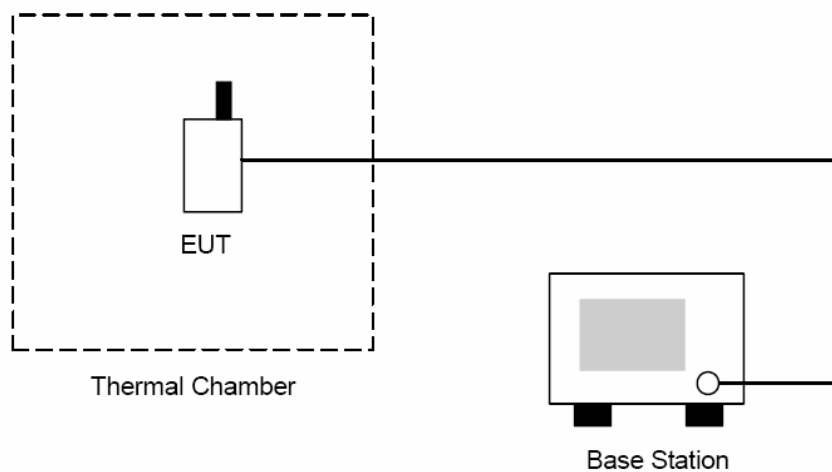
### 4.8.1 Measurement Instrument

As described in chapter 5 of this test report.

### 4.8.2 Test Procedure

1. The EUT was placed in a temperature chamber at  $25 \pm 5$  °C and connected as the following section.
2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

### 4.8.3 Test Setup Layout





#### 4.8.4 Test Result

Test Mode: GSM 850 CH190

Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]
Battery full point	4.2	34.76	0.042	0.1
Normal	3.8	24.77	0.03	0.1
Battery cut-off point	3.4	34.83	0.042	0.1

Test Mode: GSM 850 + GPRS CH190

Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]
Battery full point	4.2	30.78	0.036	0.1
Normal	3.8	31.41	0.037	0.1
Battery cut-off point	3.4	33.88	0.04	0.1

Test Mode: PCS 1900 CH661

Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]
Battery full point	4.2	533.19	0.28	1
Normal	3.8	326.15	0.17	1
Battery cut-off point	3.4	548.97	0.29	1

Test Mode: PCS 1900 + GPRS CH661

Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]
Battery full point	4.2	311.6	0.176	1
Normal	3.8	348.14	0.185	1
Battery cut-off point	3.4	250.68	0.133	1

Remark:

1. Normal Voltage=3.8V.
2. Battery cut-off point=3.4 V.



## **4.9 AC Power Conducted Emissions Requirements**

### **4.9.1 Measurement Instrument**

As described in chapter 5 of this test report.

### **4.9.2 Test Procedure**

The power line conducted emission measurements were performed in a shielded enclosure. The EUT was assembled on a wooden table which is 80 centimeters high, was placed 40 centimeters from the back wall and at least 1 meter from the sidewall.

Power was fed to the EUT from the public utility power grid through a line filter and EMCO Model 3162/2 SH Line Impedance Stabilization Networks (LISN). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPR quasi-peak detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.

The spectrum was scanned from 150 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in paragraph 2.6.

#### 4.9.3 Test Configuration:

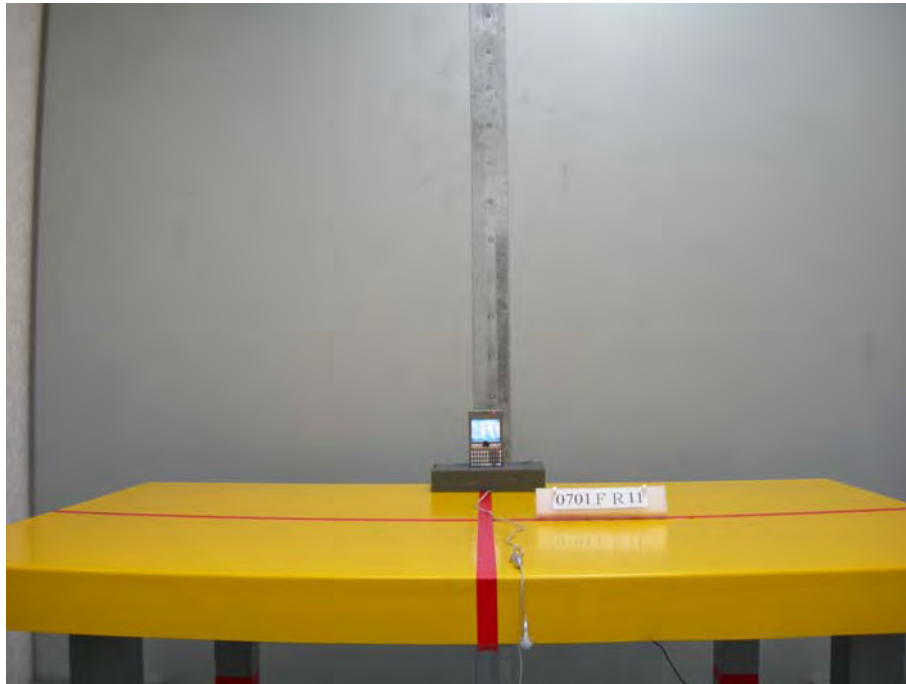


Figure 1. Front View of the Test Configuration



Figure 2. Rear View of the Test Configuration



#### 4.9.4 Test condition:

EUT tested in accordance with the specifications given by the Manufacturer, and exercised in the most unfavorable manner.

#### 4.9.5 Conducted Emissions Limits:

Frequency range (MHz)	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5.0	56	46
5.0 to 30	60	50





#### **4.9.6 Test Result**

##### **4.9.6.1 GSM 850 Test Result**

Applicant : Inventec Corporation

Model No : Mercury 619

EUT : PDA PHONE

Test Mode : GSM 850

Test Date : 12/26/2006

Please refer to next pager of detail testing data.



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NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

# Conducted Emission Measurement

File: M619(12-26-2006)(GSM850)

Order: #5

Date: 2006/12/26

Time: 上午 11:29:31



Site: 966中電波暗室

Phase: L1

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT: PDA

Distance:

M/N: M619

Mode:

Note: GSM850 STAND BY

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1864	31.90	9.74	41.64	64.19	-22.55	peak	
2		0.4524	29.20	9.78	38.98	56.83	-17.85	peak	
3		0.5899	28.08	9.79	37.87	56.00	-18.13	peak	
4	*	1.1570	33.16	9.80	42.96	56.00	-13.04	peak	
5		2.3809	28.55	9.84	38.39	56.00	-17.61	peak	
6		3.7400	29.79	9.95	39.74	56.00	-16.26	peak	
7		10.7500	31.37	10.07	41.44	60.00	-18.56	peak	

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

●Reference Only

File: M619(12-26-2006)(GSM850-Data :#5

Page: 1

Engineer Signature:



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# Conducted Emission Measurement

File: M619(12-26-2006)(GSM850) Data: #6 Date: 2006/12/26 Time: 上午 11:30:22



Site: 966中電波暗室

Phase: L2

Temperature: 26℃

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55%

EUT: PDA

Distance:

M/N: M619

Mode:

Note: GSM850 STAND BY

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1878	31.20	9.74	40.94	64.13	-23.19	peak	
2		0.3817	29.74	9.78	39.52	58.24	-18.72	peak	
3		0.4433	30.10	9.78	39.88	57.00	-17.12	peak	
4		0.5630	29.02	9.79	38.81	56.00	-17.19	peak	
5	*	1.1210	31.65	9.80	41.45	56.00	-14.55	peak	
6		2.3900	27.96	9.84	37.80	56.00	-18.20	peak	
7		3.5510	28.92	9.94	38.86	56.00	-17.14	peak	
8		11.3000	31.57	10.11	41.68	60.00	-18.32	peak	

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

▲Reference Only

File: M619(12-26-2006)(GSM850-Data #6)

Page: 1

Engineer Signature:



#### **4.9.6.2 GSM 850 + GPRS Test Result**

Applicant : Inventec Corporation

Model No : Mercury 619

EUT : PDA PHONE

Test Mode : GSM 850 + GPRS

Test Date : 01/05/2006

Please refer to next pager of detail testing data.

Conducted Emission Measurement

File: M619(12-26-2006)(GSM850)

Data #5

Date: 2007/01/05

Time: 上午 10:11:31



Site: 966中電波暗室

Phase: L1

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55%

EUT: PDA

Distance:

M/N: M619

Mode: GPRS

Note: GSM850 STAND BY

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Defect	Comment
1		0.1864	30.90	9.74	40.64	64.19	-23.55	peak	
2		0.4284	28.70	9.78	38.48	57.28	-18.80	peak	
3	*	1.1569	32.16	9.80	41.96	56.00	-14.04	peak	
4		3.7399	29.29	9.85	39.24	56.00	-16.76	peak	
5		10.7500	30.37	10.07	40.44	60.00	-19.56	peak	

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

■Reference Only

File: M619(12-26-2006)(GSM850)-Data -#5

Page: 1

Engineer Signature:



A Test Lab Techno Corp.  
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NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

# Conducted Emission Measurement

File :M619(12-26-2006)(GSM850) Data #6 Date:2007/01/05 Time:上午 10:13:22



Site 955中電波暗室

Phase: L2

Temperature: 26℃

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55%

EUT: PDA

Distance:

M/N: M619

Mode: GPRS

Note: GSM850 STAND BY

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Defector	Comment
1		0.1877	32.20	8.74	41.94	64.13	-22.19	peak	
2		0.4430	31.10	8.78	40.88	57.00	-16.12	peak	
3	*	1.1209	32.15	8.80	41.95	56.00	-14.05	peak	
4		2.3898	28.46	8.84	38.30	56.00	-17.70	peak	
5		3.5508	29.92	8.94	38.86	56.00	-16.14	peak	
6		11.3000	32.57	10.11	42.68	60.00	-17.32	peak	

\*:Maximum data x:Over limit b:over margin

Reference Only

File :M619(12-26-2006)(GSM850-Data #6

Page: 1

Engineer Signature:



#### 4.9.6.3 PCS 1900 Test Result

Applicant : Inventec Corporation

Model No : Mercury 619

EUT : PDA PHONE

Test Mode : PCS 1900

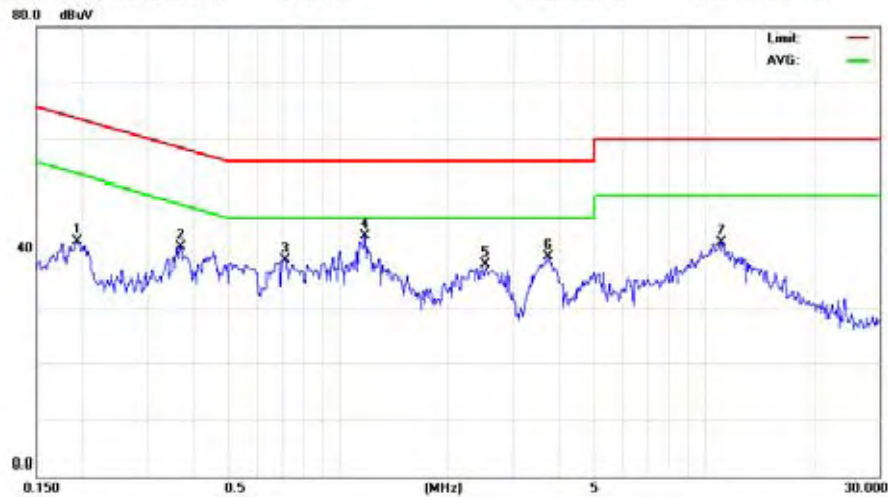
Test Date : 12/26/2006

Please refer to next pager of detail testing data.



### Conducted Emission Measurement

File: M619(12-26-2006)(GSM850) Data: #7 Date: 2006/12/26 Time: 上午 11:31:29



Site: 955中電波暗室

Phase: L1

Temperature: 25 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT: PDA

Distance:

M/N: M619

Mode:

Note: PCS1900 STAND BY

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1934	31.93	9.74	41.67	63.88	-22.21	peak	
2		0.3698	30.83	9.78	40.61	58.50	-17.89	peak	
3		0.7160	28.59	9.80	38.39	56.00	-17.61	peak	
4	*	1.1840	32.91	9.80	42.71	56.00	-13.29	peak	
5		2.5159	27.53	9.90	37.43	56.00	-18.57	peak	
6		3.7310	28.97	9.95	38.92	56.00	-17.08	peak	
7		11.0500	31.31	10.11	41.42	60.00	-18.58	peak	

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

▲Reference Only

File: M619(12-26-2006)(GSM850-Data) #7

Page: 1

Engineer Signature:

### Conducted Emission Measurement

File M619(12-26-2006)(GSM850)

Date #8

Date: 2006/12/26

Time: 上午 11:32:45



Site 966中電波暗室

Phase: L2

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT: PDA

Distance:

M/N: M619

Mode:

Note: PGS1900 STAND BY

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1717	28.90	8.73	38.63	64.87	-26.24	peak	
2		0.3691	29.55	8.78	39.33	58.52	-19.19	peak	
3		0.5450	28.70	8.79	38.49	56.00	-17.51	peak	
4	*	1.0850	33.59	9.80	43.39	56.00	-12.61	peak	
5		2.4710	28.28	9.86	38.14	56.00	-17.86	peak	
6		3.6500	29.01	9.93	38.94	56.00	-17.06	peak	
7		11.0000	31.71	10.10	41.81	60.00	-18.19	peak	
8		24.0000	21.71	10.29	32.00	60.00	-28.00	peak	

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

▲Reference Only

File M619(12-26-2006)(GSM850-Data #8

Page: 1

Engineer Signature:



#### **4.9.6.4 PCS 1900 + GPRS Test Result**

Applicant : Inventec Corporation

Model No : Mercury 619

EUT : PDA PHONE

Test Mode : PCS 1900 + GPRS

Test Date : 01/05/2007

Please refer to next pager of detail testing data.

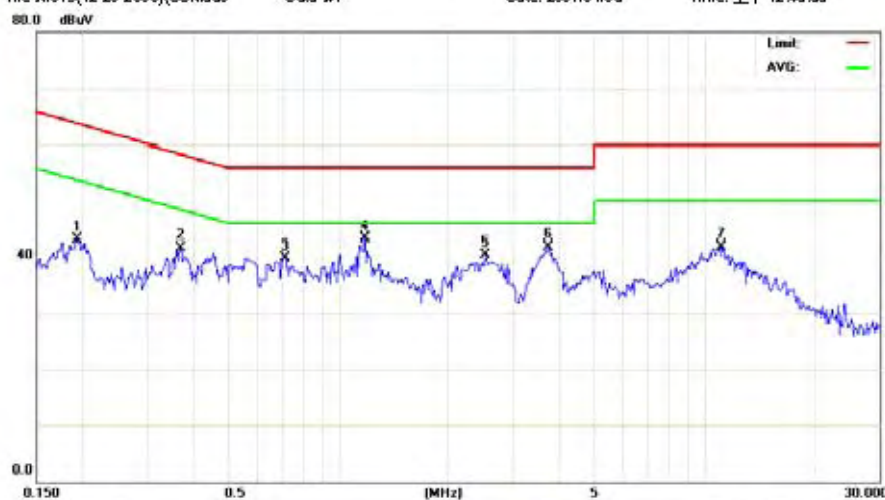
### Conducted Emission Measurement

File: M619(12-26-2006)(GSM850)

Data: #7

Date: 2007/01/05

Time: 上午 12:45:33



Site: 966中電波暗室

Phase: L1

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT: PDA

Distance:

M/N: M619

Mode: GPRS

Note: PCS1900 STAND BY

No.	MK.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Defector	Comment
1		0.1932	33.43	9.74	43.17	63.89	-20.72	peak	
2		0.3694	31.83	9.78	41.61	58.51	-16.90	peak	
3		0.7157	30.09	9.80	39.89	56.00	-16.11	peak	
4	✓	1.1836	33.41	9.80	43.21	56.00	-12.79	peak	
5		2.5158	30.53	9.90	40.43	56.00	-15.57	peak	
6		3.7309	31.97	9.95	41.92	56.00	-14.08	peak	
7		11.0500	31.81	10.11	41.92	60.00	-18.08	peak	

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

▲Reference Only

File: M619(12-26-2006)(GSM850)-Data: #7

Page: 1

Engineer Signature:



A Test Lab Techno Corp.  
Tel: +886-3-271-0188 Fax: +886-3-271-0190  
NO.140-1,Changan Street,Bade City,Taoyuan Country 344,Taiwan.

# Conducted Emission Measurement

File: M619(12-26-2006)(GSM850)

Date: #8

Date: 2007/01/05

Time: 上午 10:22:45



Site: 955中電波暗室

Phase: L2

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT: PDA

Distance:

M/N: M619

Mode: GPRS

Note: PCS1900 STAND BY

No.	MK.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Defector	Comment
1		0.1716	28.90	9.73	38.63	64.88	-26.25	peak	
2		0.3689	28.55	9.78	38.33	58.52	-20.19	peak	
3	*	1.0846	31.59	9.80	41.39	56.00	-14.61	peak	
4		2.3628	26.90	9.84	36.74	56.00	-19.26	peak	
5		3.6499	27.51	9.93	37.44	56.00	-18.56	peak	
6		11.0000	29.71	10.10	39.81	60.00	-20.19	peak	

\*:Maximum data x:Over limit b:over margin

■Reference Only

File: M619(12-26-2006)(GSM850-Data #8

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Engineer Signature:



## 5. List of Measurement Equipments

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
Agilent	Spectrum analyzer	E4408B	MY45107753	May. 03, 2006	May. 03, 2007
R&S	Receiver	ESCI	100367	May. 03, 2006	May. 03, 2007
SCHWARZBECK	Trilog Broadband Antenna	VULB 9163	9163-270	Jun. 26, 2006	Jun. 26, 2007
SCHWARZBECK	Broadband Horn Antenna	BBHA 9120D	9120D-550	Jun. 26, 2006	Jun. 26, 2007
SCHWARZBECK	Broadband Horn Antenna	BBHA 9170	9170-320	May. 02, 2006	May. 02, 2007
Agilent	Amplifier	8447D	2944A10961	Jul. 18, 2006	Jul. 18, 2007
Pattern Measurement Software	ETS-Lindgren	EMQuest™ EMQ-100	NA	NA	NA
Desktop Computer with Windows XP		Dell Computers	NA	NA	NA
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109021	Mar. 01, 2006	Mar. 01, 2007
Spectrum Analyzer	Agilent	E4445A	MY45300744	Nov. 01, 2006	Nov. 01, 2007
Loop Dipole	ETS-Lindgren	3127-1880	00052640	Oct. 03, 2005	Oct. 03, 2007
Loop Dipole	ETS-Lindgren	3127-836	00055272	Oct. 03, 2005	Oct. 03, 2007
Sleeve Dipole	ETS-Lindgren	3126-1845	00056670	Oct. 31, 2005	Oct. 31, 2007
Sleeve Dipole	ETS-Lindgren	3126-880	00052705	Nov. 17, 2005	Nov. 17, 2007
Anechoic Chamber	ETS-Lindgren	AMS 8500	S/N 102165	Mar. 16, 2006	Mar. 16, 2007
Circularly Polarized Communication Antennas	EMCO	3102	00051714	Mar. 29, 2006	Mar. 29, 2007
Antenna Positioner Controller	EMCO	2090	00052447	NA	NA
MAPS Positioner	EMCO	2010/2015	NA	NA	NA





## 6. Uncertainty Evaluation

### Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of $x_i$		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.41	Normal(k=2)	0.21
Antenna factor calibration	0.83	Normal(k=2)	0.42
Cable loss calibration	0.25	Normal(k=2)	0.13
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.43	Rectangular	0.83
Mismatch	+0.39/-0.41	U-shaped	0.28
<b>combined standard uncertainty <math>U_c(y)</math></b>	<b>1.27</b>		
<b>Measuring uncertainty for a level of confidence of 95% <math>U=2U_c(y)</math></b>	<b>2.54</b>		

### Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Contribution	Uncertainty of $x_i$		$u(x_i)$	$C_i$	$C_i * u(x_i)$
	dB	Probability Distribution			
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\sqrt{1} = 0.197$ Antenna VSWR $\sqrt{2} = 0.194$ Uncertainty = $20 \log(1 - \sqrt{1} * \sqrt{2} * \sqrt{3})$	+0.34/-0.35	U-shaped	0.244	1	0.244
<b>Combined standard uncertainty <math>U_c(y)</math></b>	<b>2.36</b>				
<b>Measuring uncertainty for a level of confidence of 95% <math>U=2U_c(y)</math></b>	<b>4.72</b>				