

Reference No.: A08041101 Report No.:FCCA08041101 FCC ID: V8MTS300ZW

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Date: May 14, 2008

Product Name:

US Z-Wave USB Interface

Model No .:

300ZWUS-W

Applicant:

TrickleStar Limited

unit F,28F,Tower 1,2 kwun Bing Rd.Tuen

Mkn,NT.HK,63085726

Date of Receipt:

Apr. 11, 2008

Finished date of Test:

May 13, 2008

Applicable Standards:

47 CFR Part 15, Subpart C

47 CFR Part 15, Subpart B

ANSI C63.4:2003

We, Spectrum Research & Testing Laboratory Inc., hereby certify that one sample of the above was tested in our laboratory with positive results according to the above-mentioned standards. The records in the report are an accurate account of the results. Details of the results are given in the subsequent pages of this report.

Tested By :

Shunm Wang , Date: May. (4. Dow)

Approved By:

(Johnson Ho, Director), Date: May 14, 2008

Lab Code: 200099-0 FMNG-059.10 REPORT



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1. DOCUMENT POLICY AND TEST STATEMENT

1.1 DOCUMENT POLICY

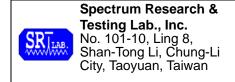
- The report shall not be reproduced except in full, without the written approval of SRT Lab, Inc.
- The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

1.2 TEST STATEMENT

- The test results in the report apply only to the unit tested by SRT Lab.
- There was no deviation from the requirements of test standards during the test.
- AC power source, 120 Vac/60 Hz, was used during the test.

1.3 EUT MODIFICATION

- No modification in SRT Lab.



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2. DESCRIPTION OF EUT AND TEST MODE

2.1 GENERAL DESCRIPTION OF EUT

ON OF LOT
US Z-Wave USB Interface
300ZWUS-W
5V DC form PCI interface
N/A
USB
ISM 902 ~ 928 MHz
908.4 MHz at 40kbps ; 908.42 MHz at 9.6kbps
1
20 dB channel bandwidth is about 150KHz for 40kbit
I.F : 40Kbit/s 908.6 MHz ~ 908.4 MHz :200KHz L.O : 908.6MHz
0dBm
Half Duplex
FSK
-5 ~ 50 °C
40kbps , 9.6kbps
Monopole

NOTE:

For more detailed information, please refer to the EUT's specification or user's manual provided by manufacturer.

2.2 DESCRIPTION OF EUT INTERNAL DEVICE

DEVICE	BRAND / MAKER	MODEL	FCC ID/DOC	REMARK
N/A				



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2.3 DESCRIPTION OF TEST MODE

Frequency (MHz)
908.40
908.42

2.4 DESCRIPTION OF SUPPORT UNIT

The EUT was configured by the requirement of ANSI C63.4:2003. All interface ports were connected to the appropriate support units via specific cables. The support units and cables are listed below.

NO	DEVICE	BRAND	MODEL	FCC ID/ DOC	CABLE
1	Notebook	DELL	PA-16	DOC	2.0m unshielded power cord

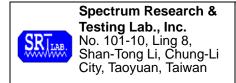
NOTE: For the actual test configuration, please refer to the photos of testing.

3. DESCRIPTION OF APPLIED STANDARDS

The EUT is a kind of wireless product. According to the specifications provided by the applicant, it must comply with the requirements of the following standards:

47 CFR Part 15, Subpart C 47 CFR Part 15, Subpart B ANSI C63.4:2003

All tests have been performed and recorded as the above standards.



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4. TECHNICAL CHARACTERISTICS TEST

4.1 CONDUCTED EMISSION TEST

4.1.1 LIMIT

Frequency (MHz)	Class A	(dBµV)	Class B (dBµV)			
Frequency (WITIZ)	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:

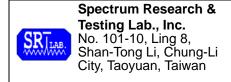
- 1. The lower limit shall apply at the transition frequencies.
- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.1.2 TEST EQUIPMENT

The following test equipment was used for the test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
EMI TEST	9 kHz TO	ROHDE &	ESHS30 /	SEP. 2008
RECEIVER	30 MHz	SCHWARZ	826003/008	ETC
LISN	50 μH, 50 ohm	FCC	FCC-LISN-50-25-2 /	OCT. 2008
LIGIN	50 μπ, 50 σππ	FCC	01017	ETC
LISN	FOULL FO observe	FCC	9252-50-R24-BNC /	JUN. 2008
LION	50μH, 50 ohm	FCC	951315	ETC
50 OHM	50 ohm	HP	11593A /	OCT. 2008
TERMINATOR	50 OHH	ПР	#2	ETC
COAXIAL CABLE	5M	TIMES	EQM-0159 /	AUG. 2008
COAXIAL CABLE	SIVI	TIIVIES	#5-5m	SRT
בוו דבם		LII COII	FC-943 /	NOD.
FILTER	2 LINE, 30A	FIL.COIL	771	NCR
GROUND PLANE	2.3M (H) x	SRT	NI/A	NCD.
GROUND PLANE	2.4M (W)	SKI	N/A	NCR
CDOLIND DLANE	2.4M (H) x	CDT	NI/A	NCD
GROUND PLANE	2.4M (W)	SRT	N/A	NCR

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.



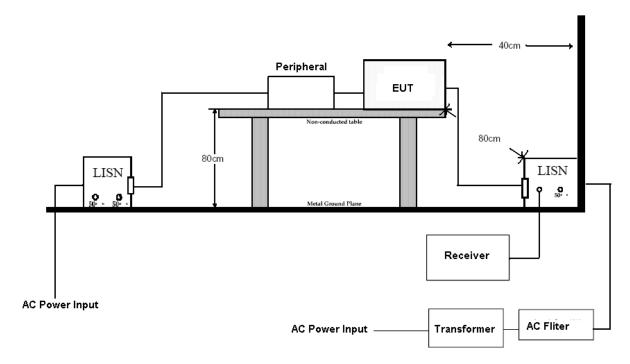
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4.1.3 TEST SETUP



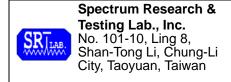
NOTE:

- 1. The EUT was put on a wooden table with 0.8m heights above ground plane, and 0.4m away from reference ground plane (> 2mx2m).
- 2. For the actual test configuration, please refer to the photos of testing.
- 3. The serial no. of the LISN connected to EUT is 01017.
- 4. The serial no. of the LISN connected to support units is 01018.

4.1.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:2003 and CISPR22:2003. The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm/50µH as specified. All readings were quasi-peak and average values with 10 kHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. Both lines of the power mains of EUT were measured and the cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.



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4.1.5 EUT OPERATING CONDITION

- 1. Under Windows XP ran "EMI TEST", and "_ZwaveERTT" program or accessed the following peripherals directly or via EUT:
 - Notebook



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4.1.6 TEST RESULT

22 °C Temperature: Humidity: 53 %RH 0.15 - 30 MHzTested Mode: Link Frequency Range: Receiver Detector: Q.P. and AV. N/A Modulation Type: 908.40 MHz Tested By: Shunm Wang Tested Frequency: Antenna Type: Monopole **Tested Date:** Apr. 30, 2008

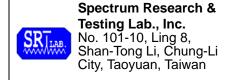
Power Line Measured: Line

Freq.	Correct. Factor		g Value μV)		n Level μV)		nit μV)		gin B)
((dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.171	0.30	51.68	41.13	51.98	41.43	64.89	54.89	-12.91	-13.46
0.174	0.30	52.46	41.46	52.76	41.76	64.75	54.75	-11.99	-12.99
0.500	0.24	34.28	17.96	34.52	18.20	55.98	45.98	-21.47	-27.79
3.170	0.18	32.70	22.37	32.88	22.55	56.00	46.00	-23.12	-23.45
3.289	0.18	32.06	20.76	32.24	20.94	56.00	46.00	-23.76	-25.06
19.777	0.38	25.58	16.97	25.96	17.35	60.00	50.00	-34.04	-32.65

Power Line Measured: Neutral

Freq.	Correct. Factor		g Value μV)		n Level μV)		nit μV)		gin B)
((dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.324	0.27	34.32	23.56	34.59	23.83	59.59	49.59	-25.00	-25.76
0.462	0.25	36.04	27.20	36.29	27.45	56.64	46.64	-20.35	-19.19
0.716	0.20	27.08	19.54	27.28	19.74	56.00	46.00	-28.72	-26.26
3.279	0.18	33.82	24.75	34.00	24.93	56.00	46.00	-22.00	-21.07
3.685	0.19	34.96	24.60	35.15	24.79	56.00	46.00	-20.85	-21.21
21.253	0.29	19.38	13.03	19.67	13.32	60.00	50.00	-40.33	-36.68

- 1. Measurement uncertainty is +/-1.32dB
- 2. Emission level = Reading valus + Correction factor
- 3. Correction Factor = Cable loss + Insertion loss of LISN
- 4. Margin value = Emission level Limit
- 5. The emission of other frequencies was very low against the limit.
- 6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



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Temperature: 22 °C Humidity: 53 %RH

Frequency Range: 0.15 – 30 MHz Tested Mode: Standby

Receiver Detector: Q.P. and AV. Modulation Type: N/A

Tested By: Shunm Wang

Antenna Type: Monopole Tested Date: Apr. 30, 2008

Power Line Measured: Line

Freq.	Correct. Factor		g Value μV)		n Level μV)		nit μV)		rgin B)
((dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.150	0.30	54.92	32.51	55.22	32.81	66.00	56.00	-10.78	-23.19
0.153	0.30	55.80	36.77	56.10	37.07	65.82	55.82	-9.72	-18.75
0.524	0.24	33.32	23.33	33.56	23.57	56.00	46.00	-22.44	-22.43
3.873	0.20	25.64	13.38	25.84	13.58	56.00	46.00	-30.16	-32.42
3.913	0.20	25.06	13.66	25.26	13.86	56.00	46.00	-30.74	-32.14
15.226	0.26	36.32	24.17	36.58	24.43	60.00	50.00	-23.42	-25.57

Power Line Measured: Neutral

Freq.	Correct. Factor	· ·	g Value μV)		n Level μV)		nit μV)	Mar (d	gin B)
	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.174	0.30	53.50	33.20	53.80	33.50	64.75	54.75	-10.95	-21.25
0.177	0.30	52.40	35.99	52.70	36.29	64.61	54.61	-11.91	-18.32
0.581	0.24	33.84	25.02	34.08	25.26	56.00	46.00	-21.92	-20.74
3.774	0.19	37.04	21.91	37.23	22.10	56.00	46.00	-18.77	-23.90
3.833	0.20	36.80	22.86	37.00	23.06	56.00	46.00	-19.00	-22.94
6.096	0.22	27.68	16.44	27.90	16.66	60.00	50.00	-32.10	-33.34

- 1. Measurement uncertainty is +/-1.32dB
- 2. Emission level = Reading valus + Correction factor
- 3. Correction Factor = Cable loss + Insertion loss of LISN
- 4. Margin value = Emission level Limit
- 5. The emission of other frequencies was very low against the limit.
- 6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



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Temperature: 22 °C Humidity: 53 %RH

Frequency Range: 0.15 – 30 MHz Tested Mode: Tx

Receiver Detector: Q.P. and AV. Modulation Type: N/A

Tested By: Shunm Wang Tested Frequency: 908.40 MHz

Antenna Type: Monopole Tested Date: Apr. 30, 2008

Power Line Measured: Line

Freq.	Correct. Factor		g Value μV)		n Level μV)		nit μV)	Maı (d	rgin B)
((dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.150	0.30	52.64	34.07	52.94	34.37	66.00	56.00	-13.06	-21.63
0.153	0.30	53.00	34.14	53.30	34.44	65.82	55.82	-12.52	-21.38
0.812	0.19	34.30	21.98	34.49	22.17	56.00	46.00	-21.51	-23.83
3.586	0.19	31.82	20.58	32.01	20.77	56.00	46.00	-23.99	-25.23
3.774	0.19	32.68	20.57	32.87	20.76	56.00	46.00	-23.13	-25.24
5.619	0.22	29.14	18.94	29.36	19.16	60.00	50.00	-30.64	-30.84

Power Line Measured: Neutral

Freq.	Correct. Factor	Reading Value (dBμV)		Emission Level (dBμV)		Limit (dBμV)		Margin (dB)	
(33332)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.150	0.30	52.62	33.20	52.92	33.50	66.00	56.00	-13.08	-22.50
0.153	0.30	55.22	35.99	55.52	36.29	65.82	55.82	-10.30	-19.53
0.984	0.17	33.70	25.02	33.87	25.19	56.00	46.00	-22.13	-20.81
3.131	0.18	36.06	21.91	36.24	22.09	56.00	46.00	-19.76	-23.91
3.715	0.19	35.44	22.86	35.63	23.05	56.00	46.00	-20.37	-22.95
5.223	0.22	25.08	16.44	25.30	16.66	60.00	50.00	-34.70	-33.34

- 1. Measurement uncertainty is +/-1.32dB
- 2. Emission level = Reading valus + Correction factor
- 3. Correction Factor = Cable loss + Insertion loss of LISN
- 4. Margin value = Emission level Limit
- 5. The emission of other frequencies was very low against the limit.
- 6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



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Temperature: 22 °C Humidity: 53 %RH

Frequency Range: 0.15 – 30 MHz Tested Mode: Link

Receiver Detector: Q.P. and AV. Modulation Type: N/A

Tested By: Shunm Wang Tested Frequency: 908.42 MHz

Antenna Type: Monopole Tested Date: Apr. 30, 2008

Power Line Measured: Line

Freq.	Correct. Factor	Reading Value (dB _µ V)		Emission Level (dBμV)		Limit (dB _µ V)		Margin (dB)	
((dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.156	0.30	51.70	36.14	52.00	36.44	65.66	55.66	-13.66	-19.22
0.159	0.30	51.22	35.68	51.52	35.98	65.50	55.50	-13.98	-19.52
0.519	0.24	31.78	22.54	32.02	22.78	56.00	46.00	-23.98	-23.22
3.239	0.18	29.36	17.93	29.54	18.11	56.00	46.00	-26.46	-27.89
3.289	0.18	26.88	15.53	27.06	15.71	56.00	46.00	-28.94	-30.29
5.954	0.22	26.04	14.61	26.26	14.83	60.00	50.00	-33.74	-35.17

Power Line Measured: Neutral

Freq.	Correct. Factor		Reading Value (dBμV)		Emission Level (dBμV)		Limit (dB _µ V)		Margin (dB)	
(33332)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
0.156	0.30	52.88	38.22	53.18	38.52	65.66	55.66	-12.48	-17.14	
0.159	0.30	52.28	36.57	52.58	36.87	65.50	55.50	-12.92	-18.63	
1.158	0.14	32.58	23.04	32.72	23.18	56.00	46.00	-23.28	-22.82	
3.061	0.18	34.98	22.35	35.16	22.53	56.00	46.00	-20.84	-23.47	
3.596	0.19	32.22	18.85	32.41	19.04	56.00	46.00	-23.59	-26.96	
5.030	0.22	28.78	17.95	29.00	18.17	60.00	50.00	-31.00	-31.83	

- 1. Measurement uncertainty is +/-1.32dB
- 2. Emission level = Reading valus + Correction factor
- 3. Correction Factor = Cable loss + Insertion loss of LISN
- 4. Margin value = Emission level Limit
- 5. The emission of other frequencies was very low against the limit.
- 6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



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Temperature: 22 °C Humidity: 53 %RH

Frequency Range: 0.15 – 30 MHz Tested Mode: Tx

Receiver Detector: Q.P. and AV. Modulation Type: N/A

Tested By: Shunm Wang Tested Frequency: 908.42 MHz

Antenna Type: Monopole Tested Date: Apr. 30, 2008

Power Line Measured: Line

Freq.	Correct. Factor	Reading Value (dBμV)		Emission Level (dB _µ V)		Limit (dB _µ V)		Margin (dB)	
((dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.150	0.30	50.96	32.34	51.26	32.64	66.00	56.00	-14.74	-23.36
0.156	0.30	50.96	36.75	51.26	37.05	65.66	55.66	-14.40	-18.61
0.510	0.24	36.12	26.23	36.36	26.47	56.00	46.00	-19.64	-19.53
3.774	0.19	33.04	20.20	33.23	20.39	56.00	46.00	-22.77	-25.61
3.814	0.20	37.70	24.40	37.90	24.60	56.00	46.00	-18.10	-21.40
6.005	0.22	27.96	19.20	28.18	19.42	60.00	50.00	-31.82	-30.58

Power Line Measured: Neutral

Freq.	Correct. Factor	Reading Value (dBμV)		Emission Level (dBμV)		Limit (dBμV)		Margin (dB)	
((dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.159	0.30	52.46	37.42	52.76	37.72	65.50	55.50	-12.74	-17.78
0.174	0.30	51.18	36.30	51.48	36.60	64.75	54.75	-13.27	-18.15
1.158	0.14	34.10	22.50	34.24	22.64	56.00	46.00	-21.76	-23.36
2.428	0.17	35.76	23.82	35.93	23.99	56.00	46.00	-20.07	-22.01
3.526	0.19	38.54	23.56	38.73	23.75	56.00	46.00	-17.27	-22.25
6.472	0.22	28.08	17.90	28.30	18.12	60.00	50.00	-31.70	-31.88

- 1. Measurement uncertainty is +/-1.32dB
- 2. Emission level = Reading valus + Correction factor
- 3. Correction Factor = Cable loss + Insertion loss of LISN
- 4. Margin value = Emission level Limit
- 5. The emission of other frequencies was very low against the limit.
- 6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



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4.2 RADIATED EMISSION TEST

4.2.1 LIMIT

FCC Part15, Subpart C Section 15.209 limit of radiated emission for frequency below1000MHz. The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

FREQUENCY (MHz)	DISTANCE (m)	FIELD STRENGTH (dB _μ V/m)			
30 - 88	3	40.0			
88 - 216	3	43.5			
216 - 960	3	46.0			
Above 960	3	54.0			

NOTE:

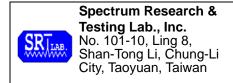
- 1. In the emission tables above , the tighter limit applies at the band edges.
- 2. Distance refers to the distance between measuring instrument, antemma, and the closest point of any part of the device or system.

FCC Part 15, Section15.35(b) limit of radiated emission for frequency above 1000 MHz

FREQUENCY (MHz)	Class A (dBu	IV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
PREQUENCT (WITZ)	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80.0	60.0	74.0	54.0	

FCC Part 15, Section15.249(a) limit of radiated emission

Fundamental Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (mV/m)
902 ~ 928	50 or 94 (dBuV/m)	500 or 114 (dBuV/m)
2400 ~ 2483.5	50 or 94 (dBuV/m)	500 or 114 (dBuV/m)



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4.2.2 TEST EQUIPMENT

The following test equipment was used during the radiated emission test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER	
EMI TEST	9kHz TO	ROHDE &	ESCS30/	OCT. 2008	
RECEIVER	2.75 GHz	SCHWARZ	830245/012	ETC	
SPECTRUM	PK-40GHz	ROHDE &	FSP40/	SEP 2008	
ANALYZER	FR-40GHZ	SCHWARZ	100093	ETC	
BI-LOG	25 MHz TO	EMCO	3142B/	NOV. 2008	
ANTENNA	2 GHz	EMCO	0005-1534	ETC	
PRE-AMPLIFIER	1 GHz TO	HP	8449B/	SEP. 2008	
PRE-AIVIPLIFIER	26.5 GHz		3008A01995	ETC	
HORN ANTENNA	1 GHz TO	EMCO	3115/	JAN. 2009	
HORN ANTENNA	18 GHz		9602-4681	ETC	
OATS	3 – 10 M	CDT	CDT 4	NOV. 2008	
UAIS	MEASUREMENT	SRT	SRT-1	SRT	
COAXIAL CABLE	25M	TIMES	J400/	AUG. 2008	
COAXIAL CABLE	∠3IVI	TIIVIES	#25M	ETC	
FILTER	2 LINE, 30A	FIL.COIL	FC-943/	NCR	
			869		

- 1. The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.
- 2. The Open Area Test Site (SRT-1) is registered by FCC with No. 90957 and VCCI with No. R-1081.
- 3. The Open Area Test Site (SRT-2) is registered by FCC with No. 98458 and VCCI with No. R-1168.



Reference No.: A08041101 Report No.:FCCA08041101

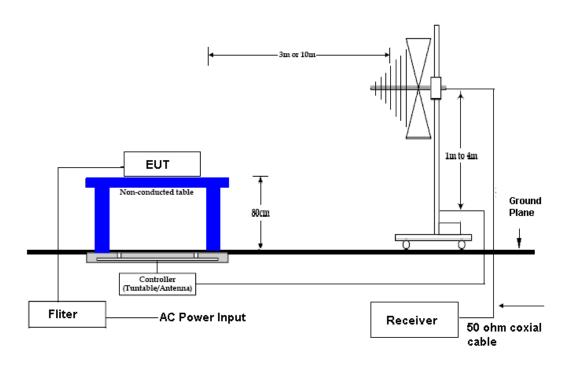
FCC ID: V8MTS300ZW

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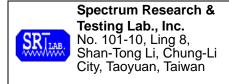
Date: Mar. 06, 2008

4.2.3 TEST SET-UP

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- 1. The EUT system was put on a wooden table with 0.8m heights above a ground plane.
- 2. For the actual test configuration, please refer to the photos of testing.



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4.2.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:2003 and CISPR 22:2003. The measurements were made at an open area test site with 3 meter measurement distance under 1 GHz and above 1GHz. The frequency spectrum measured started from 30 MHz. Under 1 GHz, all readings were quasi-peak values with 120 kHz resolution bandwidth of the test receiver. Above 1 GHz, the measurements were made at an open area test site with 3 meter measurement distance and all readings were peak or average values with 1 MHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. The cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.

4.2.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.



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4.2.6 TEST RESULT

Temperature: 21 °C Humidity: 72 %RH

Frequency Range: 30 – 1000 MHz Measured Distance: 3m

Receiver Detector: Q.P. Tested Mode: Link (908.40 MHz)

Tested By: Shunm Wang Tested Date: Mar. 05, 2008

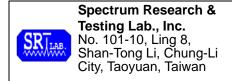
Antenna Polarization: Horizontal

		Т		T.				
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
300.0510	2.34	14.10	19.0	35.4	46.0	-10.6	218	2.3
336.5610	3.02	14.86	17.9	35.8	46.0	-10.2	141	1.9
381.6610	3.18	15.80	15.8	34.8	46.0	-11.2	151	1.67
430.9910	3.02	16.59	16.5	36.1	46.0	-9.9	333	1.4
501.4435	3.51	17.52	13.4	34.4	46.0	-11.6	18	1.5
908.3690	4.74	23.98	62.1	90.8	46.0	NA	349	1.2

Antenna Polarization: Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
350.1576	3.29	15.15	18.8	37.2	46.0	-8.8	36	1
364.2280	3.24	15.44	17.3	36.0	46.0	-10.0	268	1.1
430.9923	3.02	16.59	17.5	37.1	46.0	-8.9	101	1
505.3360	3.53	17.59	15.1	36.2	46.0	-9.8	223	1
530.9908	3.61	18.01	14.4	36.0	46.0	-10.0	49	1.3
908.3691	4.74	23.98	61.2	89.7	46.0	NA	355	1.2

- 1. Measurement uncertainty is +/-2dB.
- 2. "*": Measurement does not apply for this frequency.
- 3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
- 4. The field strength of other emission frequencies were very low against the limit.



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FCC ID: V8MTS300ZW

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Temperature: 21 °C Humidity: 72 %RH

Frequency Range: 30 – 1000 MHz Measured Distance: 3m

Receiver Detector: Q.P. Tested Mode: Link (908.42 MHz)

Tested By: Shunm Wang Tested Date: Mar. 05, 2008

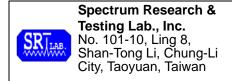
Antenna Polarization: Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
300.0511	2.34	14.10	18.9	35.3	46.0	-10.7	220	2.3
336.5613	3.02	14.86	17.8	35.7	46.0	-10.3	143	1.9
381.6615	3.18	15.80	15.7	34.7	46.0	-11.3	149	1.67
430.9912	3.02	16.59	16.6	36.2	46.0	-9.8	330	1.4
501.4439	3.51	17.52	13.3	34.3	46.0	-11.7	20	1.51
908.3698	4.74	23.98	65.9	94.6	46.0	NA	351	1.19

Antenna Polarization: Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
350.1573	3.29	15.15	18.9	37.3	46.0	-8.7	34	1
364.2281	3.24	15.44	17.2	35.9	46.0	-10.1	265	1.1
430.9929	3.02	16.59	17.6	37.2	46.0	-8.8	98	1.1
505.3365	3.53	17.59	15.2	36.3	46.0	-9.7	221	1
530.9910	3.61	18.01	14.3	35.9	46.0	-10.1	50	1.29
908.3692	4.74	23.98	64.1	92.8	46.0	NA	352	1.2

- 1. Measurement uncertainty is +/-2dB.
- 2. "*": Measurement does not apply for this frequency.
- 3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
- 4. The field strength of other emission frequencies were very low against the limit.



Reference No.: A08041101 Report No.:FCCA08041101

FCC ID: V8MTS300ZW

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Temperature: 21 °C Humidity: 72 %RH

Frequency Range: 30 – 1000 MHz Measured Distance: 3m

Receiver Detector: Q.P. Tested Mode: Standby

Tested By: Shunm Wang Tested Date: Mar. 08, 2008

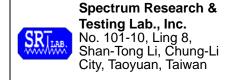
Antenna Polarization: Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
300.0515	2.34	14.10	16.1	32.5	46.0	-13.5	220	2.25
336.5611	3.02	14.86	14.5	32.4	46.0	-13.6	138	1.89
381.6619	3.18	15.80	12.8	31.8	46.0	-14.2	153	1.65
430.9917	3.02	16.59	13.6	33.2	46.0	-12.8	334	1.38
501.4433	3.51	17.52	10.5	31.5	46.0	-14.5	16	1.45
575.3367	3.70	18.78	11.1	33.6	46.0	-12.4	209	1.21

Antenna Polarization: Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
350.1574	3.29	15.15	15.6	34.0	46.0	-12.0	41	1
364.2286	3.24	15.44	15.9	34.6	46.0	-11.4	270	1.1
430.9928	3.02	16.59	14.9	34.5	46.0	-11.5	106	1.1
505.3362	3.53	17.59	13.6	34.7	46.0	-11.3	218	1
530.9910	3.61	18.01	12.5	34.1	46.0	-11.9	42	1.32
600.0560	3.72	19.20	10.1	33.0	46.0	-13.0	117	1.21

- 1. Measurement uncertainty is +/-2dB.
- 2. "*": Measurement does not apply for this frequency.
- 3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
- 4. The field strength of other emission frequencies were very low against the limit.



Reference No.: A08041101 Report No.:FCCA08041101

FCC ID: V8MTS300ZW

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Temperature: 21 °C Humidity: 72 %RH

Frequency Range: 30 – 1000 MHz Measured Distance: 3m

Receiver Detector: Q.P. Tested Mode: Tx (908.40 MHz)

Tested By: Shunm Wang Tested Date: Mar. 05, 2008

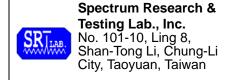
Antenna Polarization: Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
300.0510	2.34	14.10	19.1	35.5	46.0	-10.5	219	2.2
336.5610	3.02	14.86	17.8	35.7	46.0	-10.3	140	1.99
381.6610	3.18	15.80	15.9	34.9	46.0	-11.1	152	1.65
430.9910	3.02	16.59	16.4	36.0	46.0	-10.0	335	1.42
501.4435	3.51	17.52	13.4	34.4	46.0	-11.6	16	1.51
908.3690	4.74	23.98	62.2	90.7	46.0	NA	347	1.19

Antenna Polarization: Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
350.1576	3.29	15.15	18.7	37.1	46.0	-8.9	37	1.03
364.2280	3.24	15.44	17.4	36.1	46.0	-9.9	267	1.1
430.9923	3.02	16.59	17.6	37.2	46.0	-8.8	103	1.1
505.3360	3.53	17.59	15.2	36.3	46.0	-9.7	220	1
530.9908	3.61	18.01	14.3	35.9	46.0	-10.1	51	1.32
908.3691	4.74	23.98	61.3	90.0	46.0	NA	353	1.19

- 1. Measurement uncertainty is +/-2dB.
- 2. "*": Measurement does not apply for this frequency.
- 3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
- 4. The field strength of other emission frequencies were very low against the limit.



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FCC ID: V8MTS300ZW

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Temperature: 21 °C Humidity: 72 %RH

Frequency Range: 30 – 1000 MHz Measured Distance: 3m

Receiver Detector: Q.P. Tested Mode: Tx (908.42 MHz)

Tested By: Shunm Wang Tested Date: Mar. 05, 2008

Antenna Polarization: Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
300.0513	2.34	14.10	19.0	35.4	46.0	-10.6	217	2.2
336.5617	3.02	14.86	17.9	35.8	46.0	-10.2	144	1.99
381.6611	3.18	15.80	15.8	34.8	46.0	-11.2	151	1.66
430.9915	3.02	16.59	16.3	35.9	46.0	-10.1	339	1.42
501.4440	3.51	17.52	13.5	34.5	46.0	-11.5	20	1.52
908.3692	4.74	23.98	65.8	94.5	46.0	NA	343	1.19

Antenna Polarization: Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	AZ(°)	EL(m)
350.1580	3.29	15.15	18.6	37.0	46.0	-9.0	41	1.04
364.2288	3.24	15.44	17.5	36.2	46.0	-9.8	263	1.1
430.9930	3.02	16.59	17.5	37.1	46.0	-8.9	100	1.11
505.3364	3.53	17.59	15.3	36.4	46.0	-9.6	218	1
530.9909	3.61	18.01	14.2	35.8	46.0	-10.2	54	1.31
908.3687	4.74	23.98	64.2	92.9	46.0	NA	349	1.21

- 1. Measurement uncertainty is +/-2dB.
- 2. "*": Measurement does not apply for this frequency.
- 3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
- 4. The field strength of other emission frequencies were very low against the limit.



Reference No.: A08041101 Report No.:FCCA08041101

FCC ID: V8MTS300ZW

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Temperature: 21 °C Humidity: 72 %RH

Frequency Range: 1 – 10 GHz Measured Distance: 3m

Receiver Detector: PK. or AV. Tested Mode: Tx

Tested By: Shunm Wang Tested Frequency: 908.40 MHz

Tested Date: Mar. 05, 2008 Modulation Type: N/A

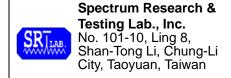
Antenna Polarization: Horizontal

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Read Dat (dB _L	a	Lev	Emission Level (dBµV/m)		Level		Level				rgin B)	AZ (°)	EL (m)
	(42)	(0.2/111)	PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.						
1085.48	-34.68	24.43	48.6	39.1	38.3	28.8	74.0	54.0	-35.7	-25.2	251	1.51				
1201.11	-33.88	24.64	46.1	35.2	36.9	26.0	74.0	54.0	-37.1	-28.0	266	1.27				
1538.52	-32.54	25.44	45.9	34.6	38.8	27.5	74.0	54.0	-35.2	-26.5	47	1.33				
1828.09	-33.05	26.55	53.4	44.8	46.9	38.3	74.0	54.0	-27.1	-15.7	103	1.46				
2131.12	-32.32	27.46	40.5	*	35.6	*	74.0	54.0	-38.4	*	351	1.20				
4630.55	-30.46	33.50	38.1	*	41.1	*	74.0	54.0	-32.9	*	110	1.15				

Antenna Polarization: Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Read Dat (dB _l	a	Emission Level (dBµV/m)		(dBµV/m)			rgin B)	AZ (°)	EL (m)
	(3.2)	(3.27.11)	PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1000.03	-35.02	24.20	50.3	41.6	39.5	30.8	74.0	54.0	-34.5	-23.2	255	1.61
1085.48	-34.68	24.39	48.2	39.7	37.9	29.4	74.0	54.0	-36.1	-24.6	260	1.35
1276.05	-33.73	24.81	46.9	37.8	38.0	28.9	74.0	54.0	-36.0	-25.1	137	1.19
1538.49	-32.54	25.44	44.5	*	37.4	*	74.0	54.0	-36.6	*	204	1.38
1828.10	-33.05	26.55	51.8	43.5	45.3	37.0	74.0	54.0	-28.7	-17.0	211	1.27
1910.52	-32.61	26.86	55.2	45.7	49.4	39.9	74.0	54.0	-24.6	-14.1	158	1.00

- 1. Measurement uncertainty is +/-2dB.
- 2. "*": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
- 4. The field strength of other emission frequencies were very low against the limit.
- 5. (F):The field stregth of fundamental frequency.



Reference No.: A08041101 Report No.:FCCA08041101

N/A

FCC ID: V8MTS300ZW

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21 °C Temperature: Humidity: 72 %RH Frequency Range: 1 – 10 GHz Measured Distance: 3m Receiver Detector: PK. or AV. Tested Mode: Tx Tested Frequency: 908.42 MHz

Modulation Type:

Tested By: Shunm Wang

Mar. 05, 2008

Antenna Polarization: Horizontal

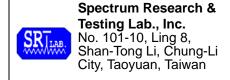
Tested Date:

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Read Dat (dB _L	a	Lev	Emission Level (dBµV/m)		Limit (dBµV/m)		gin B)	AZ (°)	EL (m)
	(42)	(u D /111)	PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1085.48	-34.68	24.43	48.5	39.2	38.2	28.9	74.0	54.0	-35.8	-25.1	250	1.51
1201.11	-33.88	24.64	46.2	35.1	37.0	25.9	74.0	54.0	-37.0	-28.1	263	1.27
1538.52	-32.54	25.44	45.8	34.7	38.7	27.6	74.0	54.0	-35.3	-26.4	44	1.33
1828.09	-33.05	26.55	53.5	44.7	47.0	38.2	74.0	54.0	-27.0	-15.8	100	1.46
2131.12	-32.32	27.46	40.6	*	35.7	*	74.0	54.0	-38.3	*	347	1.20
4630.55	-30.46	33.50	38.2	*	41.2	*	74.0	54.0	-32.8	*	114	1.15

Antenna Polarization: Vertical

Frequency (MHz)	Correct Factor (dB)	Ant. Factor (dB/m)	Reading Data (dBµV)		Le	Emission Level (dBµV/m)		mit IV/m)	Margin (dB)		AZ (°)	EL (m)
	(42)	(GD/III)	PK.	AV.	PK.	AV.	PK.	AV.	PK.	AV.		
1000.03	-35.02	24.20	50.4	41.5	39.6	30.7	74.0	54.0	-34.4	-23.3	251	1.61
1085.48	-34.68	24.39	48.1	39.8	37.8	29.5	74.0	54.0	-36.2	-24.5	262	1.35
1276.05	-33.73	24.81	46.8	37.7	37.9	28.8	74.0	54.0	-36.1	-25.2	135	1.19
1538.49	-32.54	25.44	44.4	*	37.3	*	74.0	54.0	-36.7	*	201	1.38
1828.10	-33.05	26.55	51.7	43.4	45.2	36.9	74.0	54.0	-28.8	-17.1	210	1.27
1910.52	-32.61	26.86	55.3	45.6	49.5	39.8	74.0	54.0	-24.5	-14.2	155	1.00

- 1. Measurement uncertainty is +/-2dB.
- 2. "*": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. Emissiom Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier
- 4. The field strength of other emission frequencies were very low against the limit.
- 5. (F):The field stregth of fundamental frequency.



Reference No.: A08041101 Report No.:FCCA08041101

FCC ID: V8MTS300ZW

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Temperature: 21°C Humidity: 72 %RH

Ferquency Range: 30 - 1000 MHz Measured Distance: 3m

Receiver Detector: QP Tested Mode: TX (Fundamental

Tested Date: Mar. 05, 2008 Frequency)

Tested By: Shunm Wang Tested Frequency: 908.40 MHz

Fundamental frequency of transmitter

Frequency (MHz)	Antenna Polarization	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
908.394	Н	4.74	23.98	62.1	90.6	94.0	-3.4
908.394	V	4.74	23.98	61.2	89.7	94.0	-4.3

Receiver Detector: PEAK Tested Mode: TX (Harmonic)

Frequency (MHz)	Antenna Polarization	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
1816.7390	Н	-33.05	26.50	33.5	26.95	54.0	-27.05
2725.1085	Н	-32.02	29.46	*	*	54.0	*
3633.4780	Н	-30.91	32.45	*	*	54.0	*
4541.8475	Н	-30.35	33.43	*	*	54.0	*
5450.2170	Н	-29.47	33.98	*	*	54.0	*
1816.7390	V	-33.05	26.50	31.2	24.65	54.0	-29.35
2725.1085	V	-32.02	29.46	*	*	54.0	*
3633.4780	V	-30.91	32.45	*	*	54.0	*
4541.8475	V	-30.35	33.43	*	*	54.0	*
5450.2170	V	-29.47	33.98	*	*	54.0	*

- 1. Measurement uncertainty is less than +/- 2dB
- 2. "*": Measurement does not apply for this frequency.
- 3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss
- 4. The field strength of other emission frequencies were very low against the limit.
- 5. (F): Fundamental frequency of transmitter.



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Temperature: 21°C Humidity: 72 %RH

Ferquency Range: 30 - 1000 MHz Measured Distance: 3m

Receiver Detector: QP Tested Mode: TX (Fundamental

Tested Date: Mar. 05, 2008 Frequency)

Tested By: Shunm Wang Tested Frequency: 908.42 MHz

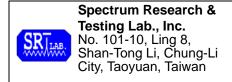
Fundamental frequency of transmitter

Frequency (MHz)	Antenna Polarization	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
908.414	Н	4.74	23.98	62.5	91.2	94.0	-2.8
908.414	V	4.74	23.98	61.4	90.1	94.0	-3.9

Receiver Detector: PEAK Tested Mode: TX (Harmonic)

Frequency (MHz)	Antenna Polarization	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
1816.7390	Н	-33.05	26.50	33.1	26.84	54.0	-27.16
2725.1085	Н	-32.02	29.46	*	*	54.0	*
3633.4780	Н	-30.91	32.45	*	*	54.0	*
4541.8475	Н	-30.35	33.43	*	*	54.0	*
5450.2170	Н	-29.47	33.98	*	*	54.0	*
1816.7390	V	-33.05	26.50	30.9	24.41	54.0	-29.95
2725.1085	V	-32.02	29.46	*	*	54.0	*
3633.4780	V	-30.91	32.45	*	*	54.0	*
4541.8475	V	-30.35	33.43	*	*	54.0	*
5450.2170	V	-29.47	33.98	*	*	54.0	*

- 1. Measurement uncertainty is less than +/- 2dB
- 2. "*": Measurement does not apply for this frequency.
- 3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss
- 4. The field strength of other emission frequencies were very low against the limit.
- 5. (F): Fundamental frequency of transmitter.



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6. TERMS OF ABBREVIATION

AV.	Average detection			
AZ(°)	Turn table azimuth			
Correct.	Correction			
EL(m)	Antenna height (meter)			
EUT	Equipment Under Test			
Horiz.	Horizontal direction			
LISN	Line Impedance Stabilization Network			
NSA	Normalized Site Attenuation			
Q.P.	Quasi-peak detection			
SRT Lab	Spectrum Research & Testing Laboratory, Inc.			
Vert.	Vertical direction			