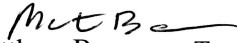
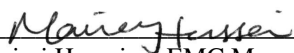




**BUREAU  
VERITAS**

# Test Report

Report No	EJ0804-1
Client	Escort, Inc. 5440 West Chester Road West Chester, OH 45069
Phone	(513)-870-8535
Fax	(513)-870-8523
FRN	0007508732
<hr/>	
Model	REDLINE
FCC ID	QKLEM3
Equipment Type	Radar Detector
Equipment Code	CRD
Results	As detailed within this report
<hr/>	
Prepared by	 Matthew Burman - Test Engineer
Authorized by	 Mairaj Hussain - EMC Manager
Issue Date	6/17/09
Conditions of issue	This Test Report is issued subject to the conditions stated in 'terms and conditions' section of this report.



**BUREAU  
VERITAS**

Curtis-Straus LLC is accredited by the American Association for Laboratory Accreditation for the specific scope of accreditation under Certificate Number 1627-01. This report may contain data which is not covered by the A2LA accreditation.

• **One Distribution Center Circle, #1 • Littleton, MA • TEL (978) 486-8880 • FAX (978) 486-8828**



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### Summary

This report is an application for Certification of a radar detector operating pursuant to 47 CFR 15.109(h). This report is designed to demonstrate the compliance of the REDLINE with the requirements outlined in Part 15 (using the methods outlined in Part 2) of 47 CFR.

### EUT Configuration

EUT Configuration											
Work Order: J0804 Company: Escort Inc. Company Address: 5440 West Chester Road. West Chester, OH 45069 Contact: Wanda Densford											
<b>MN</b>			<b>FCC ID</b>			<b>SN</b>					
EUT: Redline			QKLEM3			99999999					
EUT Description: Windshield Mount Radar/Laser Detector											
<b>Support Equipment:</b>			<b>Asset</b>			<b>SN</b>					
C-S variable DC power Supply			00480			--					
<b>EUT Ports:</b>											
Port Label	Port Type	No. of ports	No. Populated	Cable Type	Shielded	Ferrites	Length	Max Length	In/Out NEBS Type	Unpopulated Reason	
No Label	Power	1	1	RJ11	No	None	1m	1m	indoor		
No Label	Headphones	1	1	Audio	No	None	2m	3m	Indoor		
<b>Software / Operating Mode Description:</b>											
EUT is scanning for Radar and Laser											



*Statement of Conformity*

47 CFR 15.109(h) states that “*Radar detectors shall comply with the emissions limits...of [section 15.109(a)] over the frequency range of 11.7 – 12.2GHz.*” The applicable limit being 500 $\mu$ V/m measured at a distance of 3m. The Escort Redline has been tested and found to comply with this requirement:

***Test Methodology***

Radiated emission testing was performed according to the procedures in ANSI C63.4 (2003). The testing was performed at a distance of 1 meter. The device’s performance was investigated in the range 11.7-12.2GHz. The REDLINE was powered by a variable power supply. Since the device is a hand-held unit, the emissions were maximized around the three orthogonal axes and the maximum reading was recorded. The integrated antenna cannot be maximized separately.



# Radiated Emissions Measurements

## LIMIT

Average:  $500\mu\text{V/m} = 54\text{dB}\mu\text{V/m @ 3m [15.109(a)]}$

**Note:** If peak measurements meet the Average limit, then Average measurements are not required.

## MEASUREMENTS

Radiated Emissions Table										Bureau Veritas Consumer Products Services						
Date: 10-Jun-09			Company: Escort			Work Order: J0804										
Engineer: Matthew Burman			EUT Desc: Radar Detector			EUT Operating Voltage/Frequency: 12VDC										
Temp: 22.3°C			Humidity: 47%			Pressure: 1007mBar										
Frequency Range: 11.7-12.2GHz						Measurement Distance: 1 m										
Notes: FCC ID: QKLEM3																
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dBµV)	Average Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBµV/m)	Adjusted Avg Reading (dBµV/m)	FCC Class B High Frequency - Peak			FCC Class B High Frequency - Average				
									Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)		
no emissions found																
<b>Table Result:</b>		---		by		---		dB		<b>Worst Freq:</b>			---		MHz	
Test Site: EMI Chamber 1				Cable 1: EMIR-HIGH-14				Antenna: Yellow Horn								
Analyzer: Gold				Preamp: Red-Blue												



### Test Equipment Used

REV. 09-JUN-2009

<b>SPECTRUM ANALYZERS / RECEIVERS / PRESELECTORS</b>	<b>RANGE</b>	<b>MN</b>	<b>MFR</b>	<b>SN</b>	<b>ASSET</b>	<b>CAT</b>	<b>CALIBRATION DUE</b>
RED	9kHz-1.8GHz	8591E	Agilent	3441A03559	00024	I	03-MAR-2010
WHITE	9kHz-22GHz	8593E	Agilent	3547U01252	00022	I	10-DEC-2009
BLUE	9kHz-1.8GHz	8591E	Agilent	3223A00227	00070	I	13-MAY-2010
YELLOW	9kHz-2.9GHz	8594E	Agilent	3523A01958	00100	I	19-JAN-2010
GREEN	9kHz-26.5GHz	8593E	Agilent	3829A03618	00143	I	Out of Cal
BLACK	9kHz-12.8GHz	8596E	Agilent	3710A00944	00337	I	05-SEP-2009
GOLD	100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	I	06-AUG-2009
SA EMI CHAMBER (1327)	9kHz-13.2 GHz	E4405B	Agilent	MY45103416	1327	I	06-FEB-2010
SA EMI CHAMBER (1328)	9kHz-13.2 GHz	E4405B	Agilent	MY44210241	1328	I	06-FEB-2010
REFERENCE EMI TEST RECEIVER	20-1000MHz	ESVS30	R&S	827957/001	01098	I	Out of Cal
RENTAL SA #1 (BROWN)	9kHz-26.5GHz	E4407B	Agilent	SG44210511	1510	I	10-FEB-2010
RENTAL SA #5	9kHz-26.5 GHz	E4407B	Agilent	MY44220066	1491	I	02-FEB-2010
EMI CHAMBER PRESELECTOR	9kHz-1.8GHz	EM-2701	Electro-Metrics	539	1511	I	27-FEB-2010
EMI CHAMBER PRESLEECTOR	9kHz-1.8GHz	EM-2701	Electro-Metrics	540	1512	I	27-FEB-2010

<b>LISNs/MEASUREMENT PROBES</b>	<b>RANGE</b>	<b>MN</b>	<b>MFR</b>	<b>SN</b>	<b>ASSET</b>	<b>CAT</b>	<b>CALIBRATION DUE</b>
RED LISN	9kHz-50MHz	8012-50-R-24-BNC	SOLAR	956348	00753	I	16-JUN-2009
BLUE LISN (DC)	50kHz-50MHz	8012-50-R-24-BNC	SOLAR	956349	00752	I	29-JUL-2009
YELLOW-BLACK LISN	30kHz-50MHz	8012-50-R-24-BNC	SOLAR	0411657	00248	I	27-MAY-2010
ORANGE LISN	9kHz-50MHz	8012-50-R-24-BNC	SOLAR	903707	00754	I	27-MAY-2010
GOLD LISN (DC)	9kHz-50MHz	8012-50-R-24-BNC	SOLAR	984734	00247	I	15-JUL-2009
BROWN LISN	9kHz-50MHz	8012-50-R-24-BNC	SOLAR	0411656	00986	I	15-JUL-2009
GREEN LISN	9kHz-50MHz	8012-50-R-24-BNC	SOLAR	984735	00987	I	11-FEB-2010
YELLOW LISN	9kHz-50MHz	8012-50-R-24-BNC	SOLAR	0411658	1080	I	15-DEC-2009
RENTAL SILVER LISN	9kHz-34MHz	8012-50-R-24-BNC	SOLAR	8379440	RENTAL	I	28-JUL-2009
WHITE-BLACK LISN	10kHz-30MHz	8610-50-TS-100-N	SOLAR	972019	00678	I	27-MAY-2010
BLACK LISN	10kHz-30MHz	8610-50-TS-100-N	SOLAR	972017	00675	I	30-JUN-2009
RED-BLACK LISN	10kHz-30MHz	8610-50-TS-100-N	SOLAR	972016	00677	I	30-JUN-2009
BLUE-BLACK LISN	10kHz-30MHz	8610-50-TS-100-N	SOLAR	972018	00676	I	27-MAY-2010
230VAC LISN ASSET 1492	10kHz-50MHz	9252-50-R-24-BNC	SOLAR	084713	1492	I	23-MAR-2010
230VAC LISN ASSET 1493	10kHz-50MHz	9252-50-R-24-BNC	SOLAR	084714	1493	I	23-MAR-2010
230VAC LISN ASSET 1494	10kHz-50MHz	9252-50-R-24-BNC	SOLAR	084715	1494	I	23-MAR-2010
230VAC LISN ASSET 1495	10kHz-50MHz	9252-50-R-24-BNC	SOLAR	084716	1495	I	23-MAR-2010
BLUE MONITORING PROBE	10kHz -150MHz	91550-2	TEGAM	12350	00807	I	27-MAY-2010
YELLOW MONITORING PROBE	10kHz -150MHz	91550-2	ETS	50972	00493	I	29-JAN-2010
BROWN MONITORING PROBE	10kHz -250MHz	F-33-1	FISCHER	425	1110	I	23-JAN-2010
WHITE MONITORING PROBE	10kHz -250MHz	CSP-8423-1	SCHAFFNER	510	1112	I	23-JAN-2010
GREEN CURRENT TRANSFORMER	40Hz-20MHz	150	PEARSON	10226	00793	I	06-MAY-2011
SURGE CURRENT PROBE	NA	CM-1-L	ION PHYSICS	896730	1265	I	08-OCT-2010
SURGE CURRENT PROBE	NA	CM-1-L	ION PHYSICS	NA	1276	I	06-MAY-2011
BLUE CISPR LINE PROBE	10kHz-50MHz	N/A	C-S	N/A	00805	II	08-JUN-2009
BLACK CISPR LINE PROBE	10kHz-50MHz	N/A	C-S	N/A	1254	II	08-JUN-2009
CISPR TELCO VOLTAGE PROBE	10kHz-30MHz	CS A/C-10	C-S	CS01	00296	II	11-AUG-2009
CISPR 22 TELCO ISN	9kHz-30MHz	FCC-TLISN-T4	FISCHER	20115	00746	I	14-JAN-2011

<b>RADIATED EMISSIONS SITES</b>	<b>FCC CODE</b>	<b>IC CODE</b>	<b>VCCI CODE</b>	<b>CAT</b>	<b>CALIBRATION DUE</b>
SITE F OATS	93448	2762A-1	R-1688	II	27-JUL-2010
SITE T OATS	93448	2762A-2	R-905	II	06-DEC-2009
SITE A OATS	93448	2762A-4	R-903	II	04-DEC-2009
SITE M OATS	93448	2762A-5	R-904	II	25-JUN-2010
SITE J OATS	93448	2762A-3	R-2377	II	06-MAY-2010
EMI CHAMBER 1	719150	2762A-6	R-3032	I	15-FEB-2011
EMI CHAMBER 2	719150	2762A-7	R-3033	I	15-FEB-2011

<b>CONDUCTED TEST SITES (MAINS / TELCO)</b>	<b>FCC CODE</b>	<b>VCCI CODE</b>	<b>CAT</b>	<b>CALIBRATION DUE</b>
EMI 1	93448	C-1801, T-268	III	NA
EMI 2	93448	C-1802, T-269	III	NA
EMI 3	93448	C-1803, T-270	III	NA
EMI 4	93448	C-3013, T-391	III	NA
CEMI 1	719150	C-3360	III	NA
CEMI 2	719150	C-3361	III	NA
CEMI 3	719150	C-3362	III	NA



CEMI 4	719150	C-3363	III	NA
CEMI 5	719150	C-3364	III	NA
CEMI 6	719150	C-3365	III	NA

MIXERS/DIPLEXERS	RANGE	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
MIXER / HORN	26.5-40 GHZ	11970A/28-442-6	HP/ATM	2332A01695/A046903-01	1087	I	01-OCT-2009
MIXER / HORN	26.5-40 GHZ	11970A/28-442-6	HP/ATM	3003A07825/A046903-01	1086	I	OUT OF CAL
MIXER / HORN	40-60 GHZ	M19HW/A	OML	U30110-1	00821	I	29-JUN-2009
MIXER	33-50 GHZ	11970Q	HP	3003A03155	00104	I	28-NOV-2009
MIXER / HORN	50-75 GHZ	11970V /QWH-VPRROO	HP/QUINSTAR	2521A01197/8794001	1179	I	28-NOV-2009
MIXER	75-110 GHZ	11970W	HP	2521A01334	00105	I	28-NOV-2009
MIXER / HORN	60-90 GHZ	M12HW/A	OML	E30110-1	00822	I	29-JUN-2009
MIXER / HORN	90-140 GHZ	MO8HW/A	OML	F21206-1	00811	I	29-JUN-2009
MIXER / HORN	140-220 GHZ	MO5HW/A	OML	G21206-1	00812	I	29-JUN-2009
DIPLEXER	40-220 GHZ	DPL.26	OML	N/A	00813	I	29-JUN-2009

ABSORBING CLAMPS	RANGE	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
FISCHER CLAMP	30-1000MHZ	F-201-23MM	FISCHER	10	00081	I	29-JAN-2010

HARMONIC & FLICKER ANALYZER	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
5001IX AC POWER SYSTEM	5001IX	CI	HK53687	00376	II	04-MAR-2010
5001IX AC POWER SYSTEM	5001IX	CI	HK52679	RENTAL	II	04-JUN-2010
10001IX POWER SYSTEM	(2) 5001IX	CI	(EITHER OF THE ABOVE) WITH HK53688	1521	II	04-JUN-2010

PREAMPS / COUPLERS ATTENUATORS / FILTERS	RANGE	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
RED	0.009-2000MHZ	ZFL-1000-LN	CS	N/A	00798	II	07-APR-2010
BLUE	0.009-2000MHZ	ZFL-1000-LN	CS	N/A	00759	II	07-APR-2010
BLUE-BLACK	0.009-2000MHZ	ZFL-1000-LN	CS	N/A	00800	II	08-APR-2010
GREEN	0.009-2000MHZ	ZFL-1000-LN	CS	N/A	00802	II	07-APR-2010
BLACK	0.009-2000MHZ	ZFL-1000-LN	CS	N/A	00799	II	14-AUG-2009
ORANGE	0.009-2000MHZ	ZFL-1000-LN	CS	N/A	00765	II	19-DEC-2009
RED-WHITE	0.009-2000MHZ	ZFL-1000-LN	CS	N/A	1258	II	07-APR-2010
WHITE	1-18GHZ	SMC-12A	CS	426643	00760	II	OUT OF CAL
BROWN	1-20GHZ	PM2-38-218-4R5-17-15-SFF	CS	PL1655	1132	II	OUT OF CAL
1517 HF PREAMP	1-18GHZ	CS	CS	N/A	1517	II	29-MAY-2010
RED-GREEN	1-20GHZ	PM2-38-218-4R5-17-15-SFF	CS	N/A	1256	II	18-AUG-2009
RED-BLUE	1-20GHZ	PE2-38-218-4R5-17-15-SFF	CS	NA	1257	II	08-MAY-2010
HF (YELLOW)	18-26.5GHZ	AFS4-18002650-60-8P-4	CS	467559	1266	I	01-OCT-2009
HIGH PASS FILTER	0.03-20 GHZ	SPA-F-55204	K&L	36	00817	II	08-JAN-2010
LOW PASS FILTER	0.03-18 GHZ	11SL10-4100/X4400-O/O	K&L	4	00816	II	08-JAN-2010
HIGH PASS FILTER	0.03-6.5 GHZ	11SH10-1000/T3000-0/0	K&L	1	1310	II	08-JAN-2010
HIGH PASS FILTER	0.03-14.5 GHZ	11SH10-3000/T9000-0/0	K&L	1	1311	II	08-JAN-2010
HIGH PASS FILTER	0.03-8 GHZ	VHP-19	MINI-CIRCUITS	NA	1287	II	08-JAN-2010
HIGH PASS FILTER	0.03-9 GHZ	VHP-16	MINI-CIRCUITS	NA	1288	II	08-JAN-2010
HF 20dB 50W ATTENUATOR	0.009-18 GHZ	PE 7019-20	PASTERNAK	01	00791	II	08-MAY-2011
HF 30dB 50W ATTENUATOR	0.009-18 GHZ	PE 7019-30	PASTERNAK	02	1168	II	08-MAY-2011
HF 40dB 50W ATTENUATOR	0.009-18 GHZ	PE 7017-40	PASTERNAK	NA	1513	II	08-MAY-2011
40dB 100W ATTENUATOR	0.09-2000MHZ	BW-40N100W+	MINI-CIRCUITS	V N014900638	1231	II	08-JAN-2010
RFI-Low 130 kHz LPF	10-100kHz PASS	130 kHz LPF	KIWA	NA	1235	II	08-MAY-2011
50W HF DIRECT. COUPLER	1-20GHZ	DC7420	AR	0325960	1307	II	06-NOV-2009
50W DIRECT. COUPLER	0.009-2000MHZ	C6277-10	WERLATONE	41911	1264	II	03-DEC-2009
200W DIRECT. COUPLER	0.009-2000MHZ	C5571-10	WERLATONE	23098	1185	II	03-DEC-2009

ANTENNAS	RANGE	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
GREEN BILOG	30-2000MHZ	CBL6112B	CHASE	2742	00620	I	17-DEC-2010
GREEN-BLACK BILOG	30-2000MHZ	CBL6112B	CHASE	2412	00127	I	13-FEB-2010
GREEN-RED BILOG	30-2000MHZ	CBL6112B	CHASE	2435	00990	I	22-APR-2010
BLUE BILOG	30-1000MHZ	3143	EMCO	1271	00803	II	OUT OF CAL
GRAY BILOG	20-2000MHZ	3141	EMCO	9703-1038	00066	II	20-MAR-2010
YELLOW-BLACK BILOG	20-2000MHZ	CBL6140A	CHASE	1112	00126	II	OUT OF CAL
RED-WHITE BILOG	30-2000MHZ	JB1	SUNOL	A091604-1	01105	I	17 DEC-2010
RED-BLACK BILOG	30-2000MHZ	JB1	SUNOL	A091604-2	01106	I	28-OCT-2010
RED-BROWN BILOG	30-2000MHZ	JB1	SUNOL	A0032406	1218	I	11-AUG-2010
YELLOW HORN	1-18GHZ	3115	EMCO	9608-4898	00037	I	27-MAY-2011
BLACK HORN	1-18GHZ	3115	EMCO	9703-5148	00056	I	22-JUN-2009(EMI)
ORANGE HORN	1-18GHZ	3115	EMCO	0004-6123	00390	I	12-JUN-2009(EMI)
RED HORN	1-10GHZ	3115	EMCO		RENTAL	II	21-APR-10(NEBS) / 19-MAY-10 (EU RFI-HIGH)



HF (WHITE) HORN	18-26.5GHZ	801-WLM	WAVELINE	00758	00758	I	CAL /VERIFY BEFORE USE
SMALL LOOP	10kHz-30MHZ	PLA-130/A	ARA	1024	00755	I	05-MAR-2010
LARGE LOOP	20Hz-5MHZ	6511	EMCO	9704-1154	00067	I	20-FEB-2010
RENTAL 6509 LOOP	1kHz-30MHZ	6509	EMCO	1503	RENTAL	I	04-FEB-2010
ACTIVE MONOPOLE	30Hz-30MHZ	3301B	EMCO	3824	00068	II	06-JUN-2009
INDUCTION COIL	50-60Hz	1000-4-8	C-S	N/A	00778	II	08-MAY-2010
INDUCTION COIL	50-60Hz	1000-4-8	C-S	N/A	1314	II	08-MAY-2010
ADJUSTABLE DIPOLE	30-1000MHZ	3121C	EMCO	1370	00757	I	03-DEC-2010
ADJUSTABLE DIPOLE	30-1000MHZ	3121C	EMCO	1371	00756	I	03-DEC-2010
RE101 LOOP SENSOR	30Hz-100kHz	RE101-13.3CM	C-S	N/A	00818	II	VERIFY BEFORE USE
RS101 RADIATING LOOP	30Hz-100kHz	RS101-12CM	C-S	N/A	00819	II	VERIFY BEFORE USE
RS101 LOOP SENSOR	30Hz-100kHz	RS101-4CM	C-S	N/A	00820	II	VERIFY BEFORE USE
EMI CHAMBER BILOG	26MHZ-6GHZ	3142D	ETS	00102060	1503	I	17-MAR-2011
EMI CHAMBER BILOG	26MHZ-6GHZ	3142D	ETS	00102052	1504	I	17-MAR-2011

<i>EFT</i>	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
CAS 3025 BURST VERIFICATION ATTENUATORS	INA 265A/266	SCHAFFNER	20096	00947	II	31-JUL-2010
EFT DIRECT COUPLING CAP MODULA6150	N/A MODULA6150	C-S TESEQ	01 34525	00794 1268	II I	03-OCT-2009 24-NOV-2009
RED BESTEMC-2	711-1100	SCHAFFNER	200122-074SC	00623	II	17-FEB-2010

<i>ESD GENERATORS</i>	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
GREEN	NSG435	SCHAFFNER	000839	00763	I	18-DEC-2009
RED	NSG435	SCHAFFNER	001625	00762	I	27-MAR-2010
YELLOW	930D	ETS	201	00673	I	27-SEP-2009

<i>DIPS AND INTERRUPTS</i>	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
MODULA6150	MODULA6150	TESEQ	34525	1268	I	24-NOV-2009
INA 6502 AUTOMATIC STEPTRANSFORMER	INA 6502	TESEO	105	1269	I	13-FEB-2010
RED BESTEMC-2	711-1100	SCHAFFNER	200122-074SC	00623	II	24-MAR-2010
ECOMPACT4	ECOMPACT4	HAEFELY	155858	RENTAL	II	OUT OF SERVICE

<i>CHAMBERS AND STRIPLINE</i>	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
RFI 1 CHAMBER	3 METER COMPACT	PANASHIELD	N/A	00797	II	08-APR-2010
RFI 2 CHAMBER	04' x 07' SHIELDING SYSTEM	LINDGREN	13329	00795	II	05-JAN-2010
RFI 3 STRIPLINE	N/A	C-S	N/A	00796	III	FEEDBACK ONLY
ENVIRONMENTAL (SAFETY)	ECL5	B-M-A INC.	2041	00029	I	23-APR-2010
ENVIRONMENTAL (SAFETY)	SGTH-31S	B-M-A INC.	2245	00321	I	23-APR-2010

<i>AMPLIFIERS</i>	RANGE	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
RED	0.5-1000MHZ	10W1000B	AR	18708	00032	II	17-MAR-2010 (RTCA BLUE CLAMP)
GREEN	0.5-1000MHZ	10W1000B	AR	23423	00123	II	13-MAR-2010 (RFI1)
BLUE	0.01-100MHZ	75A250	AR	19165	00039	II	08-JUN-10 (NEBS CRFI) / 09-JUN-2010 (EU CRFI)
BLACK	0.01-100MHZ	75A250	AR	23411	00122	II	08-JUN-10 (NEBS CRFI) / 09-JUN-2010 (EU CRFI)
ORANGE	0.01-100MHZ	75A250	AR	26827	00367	II	08-JUN-10 (NEBS CRFI) / 09-JUN-2010 (EU CRFI)
BROWN 150W	0.1-250MHZ	150A250	AR	313454	1255	II	OUT OF CAL / FEEDBACK ONLY
YELLOW 150W	80-1000MHZ	150W1000	AR	0324607	1253	II	14-MAR-2010 (RFI1) / 05-JAN-2010 (RFI2)
500W AMP	0.1-250MHZ	500A250	AR	0326385	1297	II	20-MAR-2010 (RFI1) / 05-JAN-2010 (RFI2)
GTC 1-2.6	1.0-2.6 GHz	GRF5016A	GTC	1221	RENTAL	II	21-APR-2010(NEBS RFI-HIGH) / 19-MAY-2010 (EU RFI-HIGH)
HUGHES 10W	2.0-4.0GHZ	1177H01	HUGHES	055	RENTAL	II	21-APR-2010(NEBS RFI-HIGH) / 19-MAY-2010 (EU RFI-HIGH)
HUGHES 10W	4.0-8.0 GHz	8010H02F	HUGHES	197	RENTAL	II	21-APR-2010(NEBS RFI-HIGH) / 19-MAY-2010 (EU RFI-HIGH)
HUGHES 10W	8-10.0GHZ	80108	HUGHES	138	RENTAL	II	21-APR-2010(NEBS RFI-HIGH) / 19-MAY-2010 (EU RFI-HIGH)
HP495A	7.0-10.0GHZ	HP495A	HP	304-00237	00086	II	OUT OF SERVICE (SPARE)
AUDIO AMP	AUDIO FREQ	MPA-200	RADIO SHACK	700438	NONE	III	NA
AUDIO AMP	AUDIO FREQ	MPA-200	RADIO SHACK	708545	00862	III	NA

<i>FIELD PROBES</i>	RANGE	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
RED	0.01-1000MHZ	HI-4422	HOLADAY	90369	00031	I	26-APR-2010
GREEN	0.01-1000MHZ	HI-4422	HOLADAY	97363	00136	I	03-DEC-2009
BLUE	0.01-1000MHZ	HI-4422	HOLADAY	95696	01100	I	17-APR-2010
Reference Laser Field Probe	0.1-6000MHz	FL7006 Star Probe	AR	321700	1252	I	31-JAN-2010
MICROWAVE SURVEY METER	2450MHZ	HI-1501	HOLADAY	00075464	1244	I	Calibrate Before Use
GAUSSMETER (ELF METER)	25Hz-1kHz	4080	SYPRIS	114173	1305	I	28-MAY-2010

<i>SIGNAL GENERATORS</i>	RANGE	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
RED	0.09-2000MHZ	HP8648B	Agilent	3847U02192	00366	I	29-MAY-2010





BLUE	0.1-1000MHZ	HP8648A	Agilent	3426A00548	00034	I	01-OCT-2009
GREEN	0.09-2000MHZ	HP8648B	Agilent	3623A02072	00125	I	24-OCT-2009
ORANGE	0.1-1000MHZ	HP8648B	Agilent	3537A01210	00025	I	12-JUN-2009
WHITE	0.01Hz-15MHZ	HP33120A	Agilent	US36048143	1219	I	27-MAY-2010
BROWN-WHITE	0.01Hz-15MHZ	HP33120A	Agilent	SG40019842	1232	I	17-DEC-2009
BLUE-WHITE	0.1Hz-13MHZ	HP3312A	Agilent	1432A07632	00775	I	06-MAY-2010
RFI-HIGH SWEEPER	0.01-20.0GHZ	HP83752A	Agilent	3610A01133	00087	I	OUT FOR REPAIR
SWEEPER	0.01-20.0GHZ	HP83752A	Agilent	3610A01072	RENTAL	I	01-JUN-2010
REFERENCE SWEEPER	0.01-26.5GHZ	HP8673D	Agilent	3146A01212	1317	I	22-JUN-2009
AM/FM STEREO SIG. GEN.	0.1-170MHZ	LG3236	LEADER	3687301	00959	I	Cal Before Use
IMPULSE GENERATOR	1-100HZ	CIG-25	ELECTRO-METRICS	290	00942	I	Cal Before Use

<b>BULK INJECTION CLAMPS</b>	RANGE	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
GREEN (NEBS CRFI)	0.01-30MHZ	95236-1	ETS	50215	00118	II	08-JUN-10 (BLUE, BLACK & ORANGE AMP)
GREEN (EU CRFI)	0.10-100MHZ	95236-1	ETS	50215	00118	II	08-JUN-10 (BLUE, BLACK & ORANGE AMP)
RED (NEBS CRFI)	0.01-30MHZ	95236-1	ETS	34026	1020	II	08-JUN-10 (BLUE, BLACK & ORANGE AMP)
RED (EU CRFI)	0.10-100MHZ	95236-1	ETS	34026	1020	II	08-JUN-10 (BLUE, BLACK & ORANGE AMP)
RED (RTCA/DO-160E)	0.01-2MHZ	95236-1	ETS	34026	1020	II	17-APR-2010 (BLACK)
BLUE (RTCA/DO-160E)	2-450MHZ	9142-1N	SOLAR	063824	1237	II	17-APR-2010 (RED)

<b>ANSI T1.315</b>	MFR	ASSET	CAT	CALIBRATION DUE
SBC NOISE CART	C-S	1285	III	CALIBRATION NOT REQUIRED
SBC TRANSIENT CART	C-S	1286	III	WAVESHAPE VERIFIED BEFORE USE

<b>OSCILLOSCOPES AND PROBES</b>	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
EMC 100MHZ	TDS 220	TEKTRONIX	C036986	1166	I	18-MAY-2010
ESD REFERENCE 1GHZ	TDS 684B	TEKTRONIX	B011287	RENTAL	I	18-MAY-2010
400MHZ E*SCOPE	TDS 3044B	TEKTRONIX	C010074	1275	I	18-FEB-2010
PRODUCT SAFETY 100 MHZ	TDS 340	TEKTRONIX	B012357	00737	I	17-OCT-2009
DIFFERENTIAL PROBE	4222	PROBEMASTER	07-134	1296	I	29-SEP-2009
500MHZ 10X PROBE	P6139A	TEKTRONIX	NA	1280	I	19-JUL-2009
500MHZ 10X PROBE	P6139A	TEKTRONIX	NA	1281	I	19-JUL-2009
REFERENCE 500MHZ 10X PROBE	P6139A	TEKTRONIX	NA	1282	I	11-JUL-2009
REFERENCE 500MHZ 10X PROBE	P6139A	TEKTRONIX	NA	1319	I	11-JUL-2009
500MHZ 10X PROBE	P6139A	TEKTRONIX	NA	1283	I	19-JUL-2009
REFERENCE HV 1000X PROBE	P6015A	TEKTRONIX	B056555	1277	I	18-MAY-2010
REFERENCE HV 1000X PROBE	P6015A	TEKTRONIX	B056590	1278	I	18-MAY-2010
HV 1000X PROBE	P6015A	TEKTRONIX	B053297	RENTAL	I	27-MAY-2010
HV 1000X PROBE	P6015A	TEKTRONIX	B045382	RENTAL	I	27-MAY-2010

<b>CDN NETWORKS</b>	RANGE	MN	MFR	ASSET	CAT	CALIBRATION DUE
BLUE	0.10-100MHZ	20A M-3	C-S	00806	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
RED	0.10-100MHZ	15A M-3	C-S	00780	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
YELLOW-BLACK	0.10-100MHZ	15A M-3	C-S	00784	II	OUT OF SERVICE
GREEN	0.10-100MHZ	30A M-3	C-S	00779	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
YELLOW	0.10-100MHZ	30A M-5	C-S	00804	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
PURPLE	0.10-100MHZ	30A M-4	C-S	1321	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
BROWN	0.10-100MHZ	M-3	C-S	1169	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
BROWN-WHITE	0.10-100MHZ	M-3	C-S	1170	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
BROWN-BLACK	0.10-100MHZ	M-2 (DC)	C-S	1171	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
RED-BLACK	0.10-100MHZ	M-2 (DC)	C-S	1177	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
GREEN-WHITE	0.10-100MHZ	M-2 (DC)	C-S	1259	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
YELLOW (RES)	0.10-100MHZ	100Ω RESISTOR	C-S	00810	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
GREEN (RES)	0.10-100MHZ	100Ω RESISTOR	C-S	1172	II	09-JUN-10 (BLUE, BLACK & ORANGE AMP)
ARTIFICIAL HAND	510Ω / 220PF	CS-AH	C-S	1262	II	26-JUN-2009
ARTIFICIAL HAND	510Ω / 220PF	CS-AH	C-S	1263	II	26-JUN-2009

<b>RMS VOLTMETERS/CURRENT CLAMP</b>	MN	MNFR	SN	ASSET	CAT	CALIBRATION DUE
TRUE-RMS MULTIMETER (REFERENCE)	79III	FLUKE	71700298	00769	I	02-APR-2010
TRUE RMS MULTIMETER	179	FLUKE	89280616	1228	I	29-SEP-2009
TRUE-RMS MULTIMETER	177	FLUKE	83390024	00973	I	OUT OF CAL
TRUE-RMS MULTIMETER	177	FLUKE	83390025	00974	I	11-MAR-2010
TRUE-RMS MULTIMETER (D RAND)	177	FLUKE	91320460	1226	I	03-APR-2010
TRUE-RMS MULTIMETER	177	FLUKE	83430419	00975	I	OUT OF CAL
TRUE RMS MULTIMETER	87III	FLUKE	70920208	00828	I	02-APR-2010
AC/DC CURRENT PROBE	A622	TEKTRONIX	08DD 6275Dv	1246	I	03-APR-2010
CURRENT SHUNT	200A50MV	SIMPSON	NA	1290	I	25-AUG-2010
BENCHTOP DMM	34401A	HP	3146A69358	552	I	11-JUL-2009
BENCHTOP DMM	34401A	HP	3146A69272	553	I	OUT OF CAL



<b>POWER/NOISE METERS</b>	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
POWER METER	437B	HP	2912A01367	01099	I	06-MAY-2010
POWER SENSOR	8481A	HP	2702A61351	00774	I	06-MAY-2010
POWER METER	4232A	BOONTON	11000	1260	I	29-AUG-2009
POWER SENSOR	51013-4E	BOONTON	34457	1261	I	29-AUG-2009
PSOPHOMETER	2429	BRUEL & KJAER	1237642	00585	II	OUT OF CAL
TRANSMISSION LINE TESTER (dBRNC)	185T	AMREL	18507030010	1236	II	23-APR-2010
TRANSMISSION LINE TESTER (dBRNC)	185T	AMREL	998658	00823	II	23-APR-2010
THD, POWER & HARMONIC ANALYZER	NANOVIP PLUS	ELCONTROL ENERGY	15925	00250	I	04-SEP-2009
CURRENT CLAMP FOR NANOVIP	MN 13-EL	ELCONTROL ENERGY	NA	1293	I	04-SEP-2009

<b>TAPE MEASURES</b>	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
DIPOLE 26FT TAPE #1	2338CME	LUFKIN	C3166-1	00776	II	12-MAY-2011
DIPOLE 26FT TAPE #2	2338CME	LUFKIN	C3166-2	00777	II	12-MAY-2011
25FT/7.5M TAPE	4925IM	KOMELON	NA	1502	II	12-MAY-2011
25FT/7.5M TAPE	4925IM	KOMELON	NA	1514	II	12-MAY-2011
25FT TAPE		WORKFORCE	NA	1515	II	12-MAY-2011
25FT/7.5M TAPE	4925IM	KOMELON	NA	1516	II	12-MAY-2011

<b>SURGE GENERATORS</b>	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
TRANSIENT WAVEFORM MONITOR	TWM-5	CDI	003982	00323	II	OUT OF SERVICE
UNIVERSAL SURGE GENERATOR	M5	CDI	003966	00324	II	CAL BEFORE USE
THREE PHASE COUPLING NWK	3CN	CDI	003455	00325	II	CAL BEFORE USE
1.2x50uS PLUGIN MODULE	1.2x50uS PLUGIN	CDI	N/A	00842	II	CAL BEFORE USE
10x160uS PLUGIN MODULE	10x160uS PLUGIN	C-S	N/A	00843	II	CAL BEFORE USE
10x560uS PLUGIN MODULE	10x560uS PLUGIN	C-S	N/A	00841	II	CAL BEFORE USE
PSURGE CONTROLLER MODULE	PSURGE 8000	HAEFELY	150267	00879	II	01-JUL-2009
COUPLING/DECOUPLING MODULE	PCD 900	HAEFELY	149213	00880	II	01-JUL-2009
IMPULSE MODULE	PIM 900	HAEFELY	149202	00881	II	01-JUL-2009
HIGH VOLTAGE CAP NWK 5kVDC, 18uF	CS-HVCC	C-S	01	00772	II	CAL BEFORE USE
NEBS SURGE GENERATOR (LIMITED CAL)	N/A	C-S	N/A	00088	II	17-JUN-2009
2x10uS SURGE GENERATOR	2x10uS	C-S	N/A	00846	II	CAL BEFORE USE
10x700uS SURGE GENERATOR	10x700uS	C-S	N/A	00847	II	CAL BEFORE USE
12 PAIR SURGE RESISTOR MODULE	N/A	C-S	N/A	00768	II	17-JUN-2009
VSS 500-M	TSS 500 M12 S2	EMTEST	V0502100032	1155	II	CAL BEFORE USE
TSS 500-M	TSS500 M10	EMTEST	V0502100031	1156	II	CAL BEFORE USE
NSG 2050 SURGE GENERATOR	NSG 2050	TESEQ	200720-605LU	1273	I	18-MAY-2010
PNW 2050 1.2x50 IMPULSE NETWORK	PNW 2050	TESEQ	200711-604LU	1279	I	18-MAY-2010
CDN 133 3 PHASE COUPLING NETWORK	CDN 133	TESEQ	34416	1274	I	18-MAY-2010
MODULA6150	MODULA6150	TESEQ	34525	1268	I	24-NOV-2009
RED BEST EMC-2	711-1100	SCHAFFNER	200122-074SC	00623	II	26-FEB-2010
ECOMPACT4	ECOMPACT4	HAEFELY	155858	RENTAL	II	OUT OF SERVICE

<b>METEOROLOGICAL METERS</b>	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
TEMP./HUMIDITY/ATM. PRESSURE GAUGE	7400 PERCEPTION II	DAVIS	N/A	00965	I	06-APR-2011
TEMPERATURE /HUMIDITY GAUGE	THG-912	HUGER	4000562	00789	I	17-MAR-2011
WEATHER CLOCK (PRESSURE ONLY)	BA928	OREGON SCIENTIFIC	C3166-1	00831	I	17-MAR-2011
OFFICE HYGRO/THERMOMETER	35519-044	CONTROL COMPANY	72436083	1336	I	07-AUG-2009
HYGRO/THERMOMETER (SITE A)	35519-044	CONTROL COMPANY	72457628	1337	I	14-AUG-2009
HYGRO/THERMOMETER (EMI3)	35519-044	CONTROL COMPANY	72457729	1338	I	14-AUG-2009
HYGRO/THERMOMETER (EMI4)	35519-044	CONTROL COMPANY	72457728	1339	I	14-AUG-2009
HYGRO/THERMOMETER (EMI2)	35519-044	CONTROL COMPANY	72457719	1340	I	14-AUG-2009
HYGRO/THERMOMETER (OV1)	35519-044	CONTROL COMPANY	72457633	1341	I	14-AUG-2009
HYGRO/THERMOMETER (SITE F)	35519-044	CONTROL COMPANY	72457631	1342	I	14-AUG-2009
HYGRO/THERMOMETER (SITE M)	35519-044	CONTROL COMPANY	72457758	1343	I	14-AUG-2009
HYGRO/THERMOMETER (EMI1)	35519-044	CONTROL COMPANY	72457730	1344	I	14-AUG-2009
HYGRO/THERMOMETER (RFI1)	35519-044	CONTROL COMPANY	72457635	1334	I	26-NOV-2009
HYGRO/THERMOMETER (RFI2)	35519-044	CONTROL COMPANY	72457738	1335	I	26-NOV-2009
HYGRO/THERMOMETER (RFI3)	35519-044	CONTROL COMPANY	72457642	1345	I	14-AUG-2009
HYGRO/THERMOMETER (EMC 1-2)	35519-044	CONTROL COMPANY	72457636	1346	I	14-AUG-2009
HYGRO/THERMOMETER (SITE T)	35519-044	CONTROL COMPANY	72457639	1347	I	14-AUG-2009
HYGRO/THERMOMETER (EMC 3-4)	35519-044	CONTROL COMPANY	72457647	1348	I	14-AUG-2009
HYGRO/THERMOMETER	35519-044	CONTROL COMPANY	90823028	1496	I	20-MAR-2011
HYGRO/THERMOMETER	35519-044	CONTROL COMPANY	90823030	1497	I	20-MAR-2011
HYGRO/THERMOMETER	35519-044	CONTROL COMPANY	90823031	1498	I	20-MAR-2011
HYGRO/THERMOMETER	35519-044	CONTROL COMPANY	90823034	1499	I	20-MAR-2011
HYGRO/THERMOMETER	35519-044	CONTROL COMPANY	90823035	1500	I	20-MAR-2011
HYGRO/THERMOMETER	35519-044	CONTROL COMPANY	90823036	1501	I	20-MAR-2011



THERMOCOUPLE MODULE(FOR DMM)	80TK	FLUKE	93410013	1308	I	08-DEC-2009
THERMOCOUPLE MODULE (FOR DMM)	80TK	FLUKE	93410017	1309	I	08-DEC-2009
<b>OVERVOLTAGE CHAMBERS</b>	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
POWER FAULT SIMULATOR	OV1	C-S	N/A	00792	III	VERIFY BEFORE USE
POWER FAULT SIMULATOR	OV2	C-S	N/A	00116	III	VERIFY BEFORE USE
<b>CONSUMABLES</b>	SPEC.	MFR	STOCK/MN	ASSET	CAT	CALIBRATION DUE
NEBS CHEESECLOTH	26-28M/KG	ED&D	ACC-01	N/A	III	N/A
NEBS CARBON BLOCK	3-MIL-GAP 1KV SURGE	RELIABLE	3AB	N/A	III	N/A

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



## Conditions Of Testing

[Bureau Veritas Consumer Products Services, Inc., a Massachusetts corporation], and/or its affiliates (collectively, the "Company") will conduct, at the request of the Submitter ("Client"), the tests specified on the submitted Test Request Form or equivalent in accordance with, and subject to, the following terms and conditions (collectively, "Conditions"):

1. All orders for tests are subject to acceptance by the Company, and no order will constitute a binding commitment of the Company unless and until such order is accepted by it, as evidenced by the issuance of a written report ("Test Report") by the Company. The Test Report is issued solely by the Company, is intended for the exclusive use of Client and shall not be published, used for advertising purposes, copied or replicated for distribution to any other person or entity or otherwise publicly disclosed without the prior written consent of the Company. By submitting a request for services to the Company, Client consents to the disclosure to accreditation bodies of those records of Client relevant to the accreditation body's assessment of the Company's competence and compliance with relevant accreditation criteria. The Company shall not be liable for any loss or damage whatsoever resulting from the failure of the Company to provide its services within any time period for completion estimated by the Company. If Client anticipates using the Test Report in any legal proceeding, arbitration, dispute resolution forum or other proceeding, it shall so notify the Company prior to submitting the Test Report in such proceeding. The Company has no obligation to provide a fact or expert witness at such proceeding unless the Company agrees in advance to do so for a separate and additional fee.
2. The Test Report will set forth the findings of the Company solely with respect to the test samples identified therein. Unless specifically and expressly indicated in the Test Report, the results set forth in such Test Report are not intended to be indicative or representative of the quality or characteristics of the lot from which a test sample is taken, and Client shall not rely upon the Test Report as being so indicative or representative of the lot or of the tested product in general. The Test Report will reflect the findings of the Company at the time of testing only, and the Company shall have no obligation to update the Test Report after its issuance. The Test Report will set forth the results of the tests performed by the Company based upon the written information provided to the Company. The Test Report will be based solely on the samples and written information submitted to the Company by Client, and the Company shall not be obligated to conduct any independent investigation or inquiry with respect thereto.
3. The Company may, in its sole discretion, destroy samples which have been furnished to the Company for testing and which have not been destroyed in the course of testing. The Company may delegate the performance of all or a portion of the services contemplated hereunder to an affiliate, agent or subcontractor of the Company, and Client consents to such delegation.
4. These Conditions and the Test Report represent the entire understanding of the parties hereto with respect to the subject matter hereof and of the Test Report, and no modification, variance or extrapolation with respect thereto shall be permitted without the prior written consent of the Company.
5. The names, service marks, trademarks and copyrights of the Company and its affiliates, including the names "BUREAU VERITAS," "BUREAU VERITAS CONSUMER PRODUCTS SERVICES," "BVCPS," "MTL," "ACTS," "MTL-ACTS" and "CURTIS-STRAUS" (collectively, the "Marks") are and shall remain the sole property of the Company or its affiliates and shall not be used by Client except solely to the extent that Client obtains the prior written approval of the Company and then only in the manner prescribed by the Company. Client shall not contest the validity of the Marks or take any action that might impair the value or goodwill associated with the Marks or the image or reputation of the Company or its affiliates.
6. Payment in full shall be due 30 days after the date of invoice. Interest shall be due on overdue amounts from the due date until paid at an interest rate of 1.5% per month or, if less, the maximum rate permitted by law. The Company reserves the right, at any time and from time to time, to revoke any credit extended to Client. Client shall reimburse the Company for any costs it incurs in collecting past due amounts, including court costs and fees and expenses of attorneys and collection agencies. The Test Report may not be used or relied upon by Client if and for so long as Client fails to pay when due any invoice issued by the Company or any affiliate of it to Client or any affiliate or subsidiary of Client together with interest and penalties, if any, accrued thereon.
7. The Company disclaims any and all responsibility or liability arising out of or in connection with e-mail transmissions of such information.
8. Client understands and agrees that the Company is neither an insurer nor a guarantor, that the Company does not take the place of Client or any designer, manufacturer, agent, buyer, distributor or transportation or shipping company, and that the Company disclaims all liability in such capacities. Client further understands that if it seeks assurance against loss or damage, it should obtain appropriate insurance.
9. Client agrees that the Company, by providing the services, does not take the place of Client nor any third party, nor does the Company release them from any of their obligations, nor does the Company otherwise assume, abridge, abrogate or undertake to discharge any duty of any third party to Client or any duty of Client or any third party to any other third party, and Client will not release any third party from its obligations and duties with respect to the tested goods.
10. Client shall, on a timely basis, (a) provide adequate instructions to the Company in order to enable the Company to perform properly its services, (b) provide, or cause Client's suppliers and contractors to provide, the Company with all documents necessary to enable the Company to perform its services, (c) furnish the Company with all relevant information regarding Client's intended use and purposes of the tested goods, (d) advise the Company of essential dates and deadlines relevant to the tested goods and (e) fully exercise all rights and remedies available to Client against third parties in respect of the tested goods.
11. The Company shall undertake due care and ordinary skill in the performance of its services to Client, and the Company shall accept responsibility only where such skill has not been exercised and, even in such event, only to the extent of the limitation of liability set forth herein.
12. If Client desires to assert a claim arising from or relating to (i) the performance, purported performance or non-performance of any services by the Company or (ii) the sale, resale, manufacture, distribution or use of any tested goods, it must submit that claim to the Company in a writing that sets forth with particularity the basis for such claim within 60 days from discovery of the potential claim and not more than six months after the date of issuance of the Test Report to Client. Client waives any and all such claims including, without limitation, claims that the Test Report is inaccurate, incomplete or misleading or that additional or different testing is required, unless and then only to the extent that Client submits a written claim to the Company within both such time periods.



13. CLIENT SHALL, EXCEPT TO THE EXTENT OF COMPANY'S LIABILITY TO CLIENT HEREUNDER (WHICH IN NO EVENT SHALL EXCEED THE LIMITATION OF LIABILITY HEREIN), HOLD HARMLESS AND INDEMNIFY THE COMPANY, ITS AFFILIATES AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST ALL ACTUAL OR ALLEGED THIRD PARTY CLAIMS FOR LOSS, DAMAGE OR EXPENSE OF WHATSOEVER NATURE AND HOWSOEVER ARISING FROM OR RELATING TO (i) THE PERFORMANCE, PURPORTED PERFORMANCE OR NON-PERFORMANCE OF ANY SERVICES BY THE COMPANY OR (ii) THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY TESTED GOODS.

14. EXCEPT AS MAY OTHERWISE BE EXPRESSLY AGREED TO IN WRITING BY THE COMPANY AND NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN OR IN ANY TEST REPORT, NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, IS MADE.

15. (A) IN NO EVENT WHATSOEVER SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE TEST REPORT OR THE SERVICES PROVIDED BY THE COMPANY HEREUNDER, INCLUDING WITHOUT LIMITATION LOSS OF OR DAMAGE TO PROPERTY; LOSS OF INCOME, PROFIT OR USE; OR ANY CLAIMS OR DEMANDS MADE AGAINST CLIENT OR ANY OTHER PERSON BY ANY THIRD PARTY IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE SERVICES PROVIDED BY THE COMPANY HEREUNDER.

(B) NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN, AND IN RECOGNITION OF THE RELATIVE RISKS AND BENEFITS TO CLIENT AND THE COMPANY ASSOCIATED WITH THE TESTING SERVICES CONTEMPLATED HEREBY, THE RISKS HAVE BEEN ALLOCATED SUCH THAT UNDER NO CIRCUMSTANCES WHATSOEVER SHALL THE LIABILITY OF THE COMPANY TO CLIENT OR ANY THIRD PARTY IN RESPECT OF ANY CLAIM FOR LOSS, DAMAGE OR EXPENSE, OF WHATSOEVER NATURE OR MAGNITUDE, AND HOWSOEVER ARISING, EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF THE FEES PAID TO THE COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM OR U.S.\$10,000, WHICHEVER IS THE LESSER AMOUNT.

16. The Company shall not be liable for any loss or damage resulting from any delay or failure in performance of its obligations hereunder resulting directly or indirectly from any event of force majeure or any event outside the control of the Company. If any such event occurs, the Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.

17. Company's services, including these Conditions, shall be governed by, and construed in accordance with, the local laws of the country where the Company performs the tests or, in the case of tests performed in the United States of America, the laws of Massachusetts without regard to conflicts of laws principles. If any aspect(s) of these Conditions is found to be illegal or unenforceable, the validity, legality and enforceability of all remaining aspects of these Conditions shall not in any way be affected or impaired thereby. Any proceeding related to the subject matter hereof shall be brought, if at all, in the courts of the country where the Company performs the tests or, in the case of tests performed in the United States of America, in the courts of Massachusetts. Client waives the right to interpose any counterclaim or setoffs of any nature in any litigation arising hereunder.

Rev.160009121(2)\_#684340 v13CS



***Jurisdictional Labeling and Required Instruction Manual Inserts*****FCC Requirements****Required Equipment Authorization for Device Type**

<b>Type of Device</b>	<b>Equipment Authorization Required</b>
TV broadcast receiver	Verification
FM broadcast receiver	Verification
CB receiver	Declaration of Conformity or Certification
Superregenerative receiver	Declaration of Conformity or Certification
Scanning receiver	Certification
Radar detector	Certification
All other receivers subject to part 15	Declaration of Conformity or Certification
TV interface device	Declaration of Conformity or Certification
Cable system terminal device	Declaration of Conformity
Stand-alone cable input selector switch	Verification
Class B personal computers and peripherals	Declaration of Conformity or Certification
CPU boards and internal power supplies used with Class B personal computers	Declaration of Conformity or Certification
Class B personal computers assembled using authorized CPU boards or power supplies	Declaration of Conformity
Class B external switching power supplies	Verification
Other Class B digital devices & peripherals	Verification
Class A digital devices, peripherals & external switching power supplies	Verification
Access Broadband over Power Line (Access BPL)	Certification
All other devices	Verification

**FCC Required labeling for Verified Devices 47 CFR Part 15.19**

The specific labeling requirements for a device subject to the Verification or Certification procedure are contained in Section 15.19(a). These labelling requirements are:

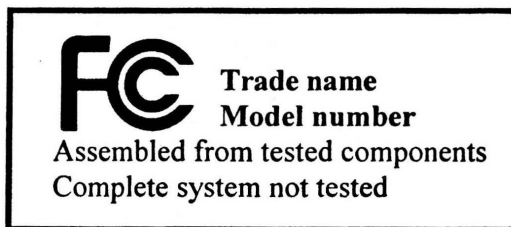
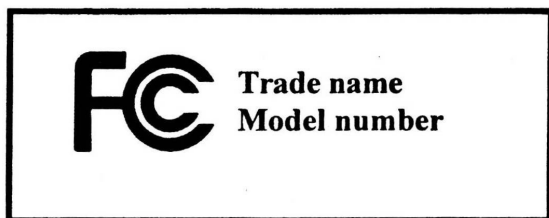
- One of three compliance statements specified in Section 15.19(a);
- If the device is subject only to Verification include a label bearing a unique identifier - Section 2.954;

- If the device is subject to Certification (1) Section 2.925 contains information on identification of the equipment; (2) include a label bearing an FCC Identifier (FCC ID) - Section 2.926.

If the labeling area for the device is so small, and / or it is not practical to place the required statement on the device, then the statement can be placed in the user manual or product packaging - Section 15.19(a)(5). Generally, devices smaller than the palm of the hand are considered small. However, the device must still be labeled with the unique identifier (Verification) or the FCC ID (Certification).

**Declaration of Conformity (DoC):**

The labeling requirements for a device subject to the Declaration of Conformity (DoC) procedure are specified in Section 15.19(b). The label should include the FCC logo along with the Trade Name and Model Number, which satisfies the unique identifier requirement of Section 2.1074 if it represents the identical equipment tested for DoC compliance. For personal computers assembled from authorized components, the following additional text must also be included: “Assembled from tested components,” “Complete system not tested.” When the device is so small and / or when it is not practical to place the required additional text on the device, the text may be placed in the user manual or pamphlet supplied to the user. However, the FCC logo, Trade Name, and Model Number must still be displayed on the device - Section 15.19(b)(3).



Part 15 Declaration of Conformity (DoC) Label Examples

**FCC Required Instruction Manual Inserts CFR 47 Part 15.21 and 15.105**

Section 15.21 requires that in the user manual, the user shall be cautioned that changes / modifications not approved by the responsible party could void the user’s authority to operate the equipment. The acceptable formats for user information dissemination are paper, computer disk or over the Internet. Where special accessories, such as shielded cables and/or special connectors, are required to comply with the emission limits, the instruction manual shall include appropriate instructions on the first page of the text describing the installation of the device (Section 15.27(a)).

For a Class A or Class B digital device (unintentional radiator), as well as any composite device that is both an intentional and unintentional radiator, the text specified in Section 15.105 must be placed in the user manual.

Devices authorized under the Declaration of Conformity (DoC) procedure must also include a compliance information statement (in the user manual or on a separate sheet) as required by Section 2.1077. The objective of this compliance statement is to allow

the FCC to associate the equipment with the party responsible for compliance with the DoC requirements.

Devices certified as software defined radio that use an electronic labeling method to display the FCC ID must provide instructions in the user manual on how to access the electronic display (Section 2.925(e)).

Additional statements and information may be required for compliance to specific or general rule parts. The following is an example of some additional user information requirements. The party responsible for compliance must provide any additional statement(s) required.

- Kits - TV interface and Cable system terminal device marketed as Kits: Section 15.25 (d);
- TV interface devices, including cable system terminal devices: Section 15.115 (c) (5);
- Labeling of digital cable ready products: Section 15.123 - use of the term cable ready/compatible;
- External power amplifiers and antenna modifications: Section 15:204 (d) (2) – 1 notice of authorized amplifiers;
- Cordless telephones: Section 15.214 (c) & (d) (3) - privacy statement & security code statement;
- Cordless telephones: Section 15.233 (b) (2) (ii) - interference to TV;
- Cordless telephones: Section 15.233 (h) - cordless phones without digital security (Section 15.214);
- Professionally installed systems: Section 15.247 (c) (1) (iii);
- Operation within the Band 92-95 GHz: Section 15.257 (a) (4) - indoor use only;
- Unlicensed PCS: Section 15.311 - notification and coordination with UTAM, Inc.;
- RF exposure statements: Section 2.1091 (d) (3) - Mobile devices (a minimum separation distance may be required).

Our facility codes can be found in the *Test Equipment Used* Section starting on page **Error! Bookmark not defined..**

## FCC Part 18 Required Labeling for Industrial, Scientific and Medical Equipment

### Labeling Requirements for Part 18 Devices:

Equipment that intentionally generates radio frequency energy for non telecommunications functions for industrial, scientific, medical (ISM) or other purposes must be authorized and labeled according to the procedures outlined in Part 2, Subpart J, Sections 18.203 and 18.209.

Non-consumer ISM equipment is authorized under the Verification procedure. Consumer ISM equipment is authorized under either the Declaration of Conformity or





Certification procedure, except that consumer ultrasonic equipment generating less than 500 watts and operating below 90 KHz is subject to the Verification procedure.

Labeling for Verification requires a unique identifier (Section 2.954) to facilitate positive identification of the Verified device. The identification should not be confused with the FCC ID used on devices subject to Certification Labels for Part 18 devices subject to Certification require an FCC Identifier as described in Section 2.926.

For Declaration of Conformity the device shall be permanently labelled with the Part 18 logo (Section 18.209) illustrated below, in addition to a unique identifier (Section 2.1074) to facilitate positive identification.



Part 18 Declaration of Conformity (DoC) Logo

All **Artwork** shown above for Declaration of Conformity labels is available at: <http://www.fcc.gov/labhelp> KDB Number 784748 (Select link on the left hand side "Detail Criteria Search" and in the Publication Number field enter 784748; then push the Submit Query button.)

#### **User Manual and User Information for Part 18 Devices:**

For all industrial, scientific, medical (ISM) devices, the instruction manual or, if no instruction manual is provided, the product packaging must provide information that addresses the following: (1) interference potential of the device, (2) maintenance of the system and (3) simple measures that can be taken to correct interference. RF lighting devices must add a statement similar to the following: "This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment, ships at sea or other critical navigation or communications equipment operating between 0.45-30 MHz." (Section 18.213)

In addition, Part 18 devices that are authorized under the Declaration of Conformity procedure shall also include in the instruction manual, on a separate sheet, or on the packaging the following: identification of the product (e.g. name and model number), a statement similar to "This device complies with Part 18 of the FCC Rules" (Section 18.212), and the name and address of the responsible party (Section 2.909).

#### **Multiple Authorization Procedures:**

A device subject to multiple authorization procedures requires appropriate testing and labeling for each of the respective authorization procedures. As a general rule, the Declaration of Conformity (DoC) text statement is required over any Verification statement. For devices subject to DoC and Verification, or Certification and Verification, the labeling requirements for DoC or Certification need only apply. When a device is authorized under both DOC and Certification procedures, the DoC logo and FCC ID (or FCC IDs if applicable) are required.

This requirement does not negate the testing requirement for each individual device that is subject to both multiple authorization procedures, and / or multiple technical rules. For example, an 802.11 WIFI Router that is also a CLASS B personal computer peripheral digital device must be tested as a computer peripheral (Section 15.3) and as a Digital Transmitter (Section 15.247) and must be labeled with the DoC logo and an FCC ID.

When supplying information to users, all relevant instructions that pertain to all components of a composite device are required. For example, Class A or Class B statements in Section 15.105; all warning statements and special instructions as required by Sections 15.21 and 15.27; and all Part 18 applicable instructions must be clearly stated. Variations in editing to clarify the language and structure are permitted if all the relevant points applicable to all of the components are represented.