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**REPORT ON THE CERTIFICATION TESTING OF A
AGD SYSTEMS Ltd
AGD340
WITH RESPECT TO
THE FCC RULES CFR 47, PART 15.245 September 2007
INTENTIONAL RADIATOR SPECIFICATION**



TEST REPORT NO: RU1432/8707
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AGD SYSTEMS Ltd
AGD340
WITH RESPECT TO
THE FCC RULES CFR 47, PART 15.245 September 2007
INTENTIONAL RADIATOR SPECIFICATION**

TEST DATE: 28th April – 4th August 2008

TESTED BY: D WINSTANLEY

APPROVED BY: J CHARTERS
RADIO SECTION
LEADER

DATE: 11th August 2008

Distribution:

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1. AGD Systems Ltd
 2. FCC EVALUATION LABORATORIES
 3. TRL Compliance Ltd

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Notes:			
1. Component failure during test	YES		[]
	NO		[X]
2. If Yes, details of failure:			
3. The facilities used for the testing of the product contain in this report are FCC Listed.			
4. The contents of the attached applicants declarations and other supplied information are not covered by the scope of this laboratory's UKAS or FCC accreditations' and is provided in good faith.			



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CERTIFICATE OF CONFORMITY & COMPLIANCE

FCC IDENTITY: WH3AGD340

PURPOSE OF TEST: Certification

TEST SPECIFICATION: FCC RULES CFR 47, Part 15.245 September 2007

TEST RESULT: Compliant to Specification

EQUIPMENT UNDER TEST: AGD340

ITU: EMISSION CODE: 3M2NON

EQUIPMENT TYPE: Portable Non Handheld Radar

PRODUCT USE: Enforcement Radar

CARRIER EMISSION: 727.779 mV/m @ 3m

ANTENNA TYPE: Integral

ALTERNATIVE ANTENNA: Not Applicable

BAND OF OPERATION: 24.05 – 24.25 GHz

CHANNEL SPACING: Not Applicable, Wideband

NUMBER OF CHANNELS: 1

FREQUENCY GENERATION: SAW Resonator Crystal Synthesiser

MODULATION METHOD: Amplitude Digital Angle

POWER SOURCE(s): 12Vdc / 24Vac

TEST DATE(s): 28th April – 4th August 2008

ORDER No(s): 39327

APPLICANT: AGD Systems Ltd

ADDRESS: White Lion House
Gloucester Road
Staverton
Cheltenham
Gloucester
GL51 0TF

TESTED BY: _____ D WINSTANLEY

APPROVED BY: _____ J CHARTERS
RADIO SECTION
LEADER

RU1432/8707

APPLICANT'S SUMMARY

EQUIPMENT UNDER TEST (EUT): AGD340

EQUIPMENT TYPE: Portable Non Handheld Radar

PURPOSE OF TEST: Certification

TEST SPECIFICATION(s): FCC RULES CFR 47, Part 15.245 September 2007

TEST RESULT: COMPLIANT Yes
No

APPLICANT'S CATEGORY: MANUFACTURER
IMPORTER
DISTRIBUTOR
TEST HOUSE
AGENT

APPLICANT'S ORDER No(s): 39327

APPLICANT'S CONTACT PERSON(s): Mr R Fyfe
E-mail address: rob.fyfe@agd-systems.com

APPLICANT: AGD Systems Ltd
ADDRESS: White Lion House
Gloucester Road
Staverton
Cheltenham
Gloucester
GL51 0TF

TEL: +44 (0) 1452 854212

FAX: +44 (0) 1452 854213

EUT(s) COUNTRY OF ORIGIN: United Kingdom

TEST LABORATORY: TRL Compliance Ltd

UKAS ACCREDITATION No: 0728

TEST DATE(s): 28th April – 4th August 2008

TEST REPORT No: RU1432/8707

EQUIPMENT TEST / EXAMINATIONS REQUIRED

1.	TEST/EXAMINATION	RULE PART	DETECTOR	APPLICABILITY
	Intentional Emission Frequency:	15.245(b)	Average	YES
	Intentional Emission Field Strength:	15.245(b)	Average	YES
	Intentional Emission Band Occupancy:	15.215 (c)	Peak	YES
	Intentional Emission ERP (mW):	N/A	-	NO
	Spurious Emissions – Conducted:	15.207	Quasi Peak Average	YES
	Spurious Emissions – Radiated <1000MHz:	15.209	Quasi Peak	YES
	Spurious Emissions – Radiated >1000MHz:	15.245 15.209	Average	YES
	Maximum Frequency of Search:	15.33	-	YES
	Antenna Arrangements Integral:	15.203	-	YES
	Antenna Arrangements External Connector:	15.204	-	YES
	Restricted Bands	15.205	-	YES
	Extrapolation Factor	15.31(f)	-	YES

- 2. Product Use: Enforcement Radar
- 3. Emission Designator: 3M2NON
- 4. Duty Cycle: 100%
- 5. Temperatures: Ambient (Tnom) 20°C
- 6. Supply Voltages: Vnom +12Vdc

Note: Vnom voltages are as stated above unless otherwise shown on the test report page

- 7. Equipment Category:
 - Single channel
 - Two channel
 - Multi-channel
- 8. Channel spacing:
 - Narrowband
 - Wideband

TRANSMITTER TESTS

TRANSMITTER SPURIOUS EMISSIONS – RADIATED – PART 15.209

Ambient temperature	=	20°C(<1GHz)	3m measurements <1GHz	[X]
Relative humidity	=	82% (<1GHz),	3m measurements <26.5GHz	[X]
Conditions	=	Open Area Test Site (OATS)	0.3m measurements <100GHz	[X]
Supply voltage	=	+12Vdc	3m extrapolated from 0.3m	[X]
Channel number	=	1		

Bottom Channel	FREQ. (MHz)	MEAS Rx (dBµV)	CABLE LOSS (dB)	ANT. FACT. (dB/m)	PRE AMP (dB)	FIELD ST'GH (dBµV/m)	EXTRAP FACT (dB)	FIELD ST'GH (µV/m)	LIMIT (µV/m)
0.009MHz - 0.49MHz									Note 9
0.49MHz - 1.705MHz									Note 9
1.705MHz - 30MHz									Note 9
30MHz - 88MHz	62.5	18.72	1.18	5.1	-	25.0	-	17.78	100
88MHz - 216MHz									Note 9
216MHz - 960MHz	262.10	15.65	2.20	13.15	-	31.0	-	35.48	200
	343.70	23.78	2.47	14.35	-	40.6	-	107.15	200
	355.85	26.69	2.51	14.40	-	43.6	-	151.35	200
	429.25	19.40	2.80	16.60	-	38.8	-	87.09	200
	442.37	20.15	2.80	16.75	-	39.7	-	96.60	200
	445.45	17.85	2.80	16.85	-	37.5	-	74.98	200
	537.10	10.17	3.13	19.20	-	32.5	-	42.17	200
	560.35	14.81	3.23	20.16	-	38.2	-	81.28	200
	573.00	10.34	3.26	19.90	-	33.5	-	47.31	200
	576.50	11.51	3.29	19.80	-	34.6	-	53.70	200
589.85	16.19	3.31	19.70	-	39.2	-	91.20	200	
663.60	10.32	3.53	20.35	-	34.2	-	51.28	200	
960MHz - 1GHz									Note 9
1GHz - 100GHz									Note 9
Limits	Restricted Bands 15.205								
	0.009 MHz to 0.49 MHz				2400/f(kHz) µV/m @ 300m				
	0.49 MHz to 1.705 MHz				24000/f(kHz) µV/m @ 30m				
	1.705MHz to 30MHz				30µV/m @ 30m				
	30MHz to 88MHz				100µV/m @ 3m				
	88MHz to 216MHz				150µV/m @ 3m				
	216MHz to 960MHz				200µV/m @ 3m				
	960MHz to 1GHz				500µV/m @ 3m				
	1GHz to 100GHz				500µV/m @ 3m				
	Un-restricted Bands & Harmonics								
	Harmonics <17.7 GHz Unrestricted Bands				2500µV/m @ 3m				
	Harmonics > 17.7 GHz				2500µV/m @ 3m				
	All other Emissions				50 dBc @ 3m				

- Notes:**
- 1 Results quoted are extrapolated as indicated
 - 2 Emissions were searched to: (X) 1000MHz inclusive, as per Part 15.33a
 - 3 Extrapolation factor 9.5dB from 1m to 3m, as per Part 15.31f
 - 4 Measurements >1GHz @ 1m as per Part 15.31f(1)
 - 5 Receiver detector >1GHz = CISPR, Quasi-Peak, 120kHz bandwidth
 - 6 Receiver detector >1GHz = Peak Hold, 1MHz resolution bandwidth
 - 7 New batteries used for battery powered products.
 - 8 See Annex F for Emissions Graph(s)
 - 9 Only Emissions Within 20dB of the limit are recorded

- Test Method:**
- 1 As per Radio – Noise Emissions, ANSI C63.4: 2003
 - 2 Measuring distances as Notes 1 to 4 above
 - 3 EUT 0.8 metre above ground plane
 - 4 Emissions maximised by rotation of EUT, on an automatic turntable.
Raising and lowering the receiver antenna between 1m & 4m.
Horizontal and vertical polarisations, of the receive antenna.
EUT orientation in three orthogonal planes.
Maximum results recorded.

The test equipment used for the Transmitter Spurious Emissions – Radiated – Part 15.209 tests is shown overleaf:

TYPE OF EQUIPMENT	MAKER/SUPPLIER	MODEL No	SERIAL No	TRL No	EQUIPMENT USED
HORN ANTENNA	EMCO	3115	9010 - 3580	138	X
HORN ANTENNA	FLANN	24240-20	124	265A	X
HORN ANTENNA	FLANN	20240-20	322	300	X
PRE AMPLIFIER	AGILENT	8449B	3008A016	572	X
SPECTRUM ANALYSER	HP	8563A	3133A00894	654	X
RECEIVER	R & S	ESVS 10	841431/014	UH186	X
BILOG ANTENNA	YORK	CBL611/A	1618	UH191	X
SPECTRUM ANALYSER	R & S	FSU	200034	UH281	X
HARMONIC MIXER 33 -50 GHz	AGILENT	11970Q	MY30030406	UH365	X
HARMONIC MIXER 50 – 75 GHz	AGILENT	11970V	MY30030198	UH366	X
HARMONIC MIXER 75 – 110 GHz	AGILENT	11970W	MY25210349	UH367	X
HORN ANTENNA	FLANN	23240-20	83	264A	X
HORN ANTENNA	FLANN	25240-20	N/A	N/A	X
HORN ANTENNA	FLANN	27240-20	N/A	N/A	X

TRANSMITTER TESTS

TRANSMITTER INTENTIONAL EMISSION – RADIATED – Part 15.245 September 2007

Ambient temperature	=	20°C(<1GHz),	3m measurements @ fc	[X]
Relative humidity	=	61%(<1GHz),	10m measurements @ fc	[]
Conditions	=	Open Area Test Site (OATS)	30m measurements @ fc	[]
Supply voltage	=	+12Vdc	30m extrapolated from 3m	[]
Channel number	=	1	30m extrapolated from 10m	[]

FREQ. (GHz)	MEASUREMENT Rx. READING (dBµV)	CABLE LOSS (dB)	ANT FACTOR (dB/m)	PRE AMP (dB)	FIELD STRENGTH (dBµV/m)	FIELD STRENGTH (mV/m)
24.09753	41.14	4.7	37.5	33.9	117.24	727.779
Limit value @ fc			2500 (mV/m)			
Band occupancy @ -20 dBc			f lower		f higher	
			24.0950381 GHz		24.0982500 GHz	

See spectrum analyser plot – Annex E

- Notes:**
- 1 Results quoted are extrapolated as indicated
 - 2 Receiver detector @ fc = Average 1MHz bandwidth
 - 3 When battery powered the EUT was powered with new batteries

- Test Method:**
- 1 As per Radio – Noise Emissions, ANSI C63.4: 2003
 - 2 Measuring distances 3m
 - 3 EUT 0.8 metre above ground plane
 - 4 Emissions maximised by rotation of EUT, on an automatic turntable.
Raising and lowering the receiver antenna between 1m & 4m.
Horizontal and vertical polarisations, of the receive antenna.
EUT orientation in three orthogonal planes.
Maximum results recorded

The test equipment used for the Transmitter Intentional Emission – Radiated – Part 15.245 September 2007 tests is shown below:

TYPE OF EQUIPMENT	MAKER/SUPPLIER	MODEL No	SERIAL No	TRL No	EQUIPMENT USED
HORN ANTENNA	FLANN	20240-20	322	300	X
PRE AMPLIFIER	AGILENT	8449B	3008A016	572	X
SPECTRUM ANALYSER	R & S	FSU	200034	UH281	X

TRANSMITTER TESTS

TRANSMITTER CONDUCTED EMISSIONS – AC POWER LINE Part 15.207

Ambient temperature = 24(<1GHz),
 Relative humidity = 65%Hz),
 Conditions = Power Line Laboratory
 Supply voltage = 110V AC
 Supply Frequency = 60Hz

SIGNIFICANT EMISSIONS

FREQUENCY (MHz)	MEASUREMENT RECEIVER READING (dBµV)	DETECTOR	CONDUCTOR (L or N)	LIMIT (dBµV)
0.165	56.10	Quasi Peak	Live	65.21
0.190	52.11	Quasi Peak	Live	64.04
0.240	33.39	Average	Live	52.10
0.275	33.50	Average	Neutral	50.97
0.325	32.72	Average	Neutral	49.58
0.425	33.72	Average	Neutral	47.35
0.510	36.13	Quasi Peak	Live	56.00
0.525	34.60	Average	Neutral	46.00
0.625	35.69	Average	Neutral	46.00
0.775	37.81	Average	Neutral	46.00
0.980	45.55	Average	Neutral	46.00
1.025	41.54	Average	Neutral	46.00
1.250	34.31	Average	Neutral	46.00
1.580	28.40	Average	Neutral	46.00
4.355	28.47	Average	Live	46.00
8.370	30.99	Average	Neutral	46.00
8.520	32.76	Average	Neutral	46.00

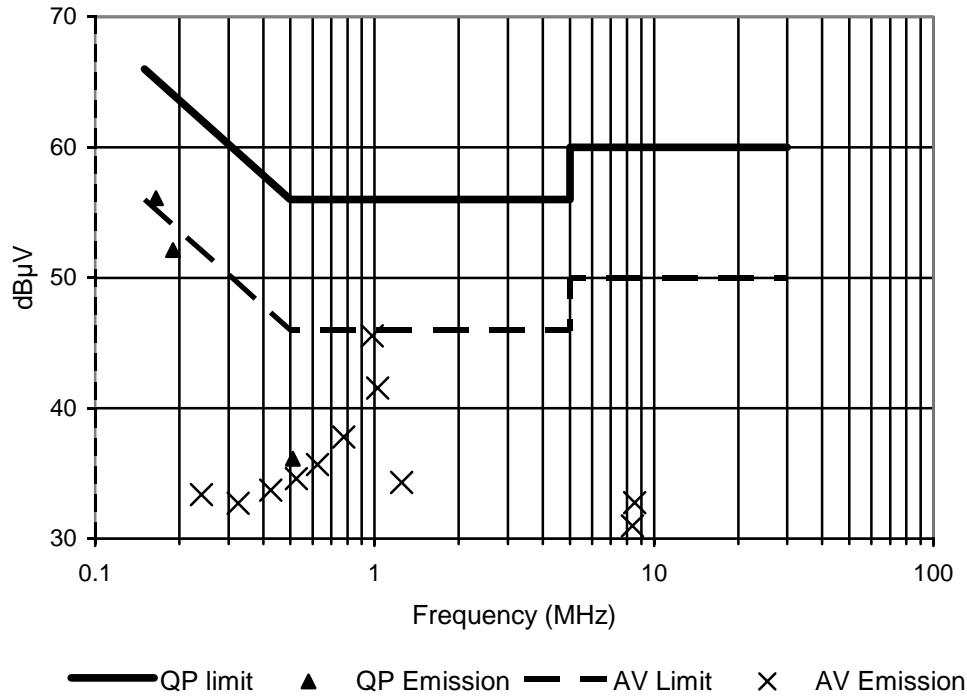
Notes:
 1 See attached plot annex G
 2 110Vac Setpped Down to 24Vac through a transformer.

Test Method: 1 As per Radio – Noise Emissions, ANSI C63.4: 2003

The test equipment used for the Transmitter Conducted Emissions – AC Power Line Part 15.207 test was:

TYPE OF EQUIPMENT	MAKER/SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
RECEIVER	ROHDE & SCHWARZ	ESHS 10	841429/012	UH187	X
LISN/AMN	ROHDE & SCHWARZ	ESH3-Z5	8407 31/015	UH195	X

POWER LINE CONDUCTION EMISSIONS



ANNEX A
PHOTOGRAPHS

PHOTOGRAPH No. 1

TEST SETUP



PHOTOGRAPH No. 2

TRANSMITTER FRONT VIEW



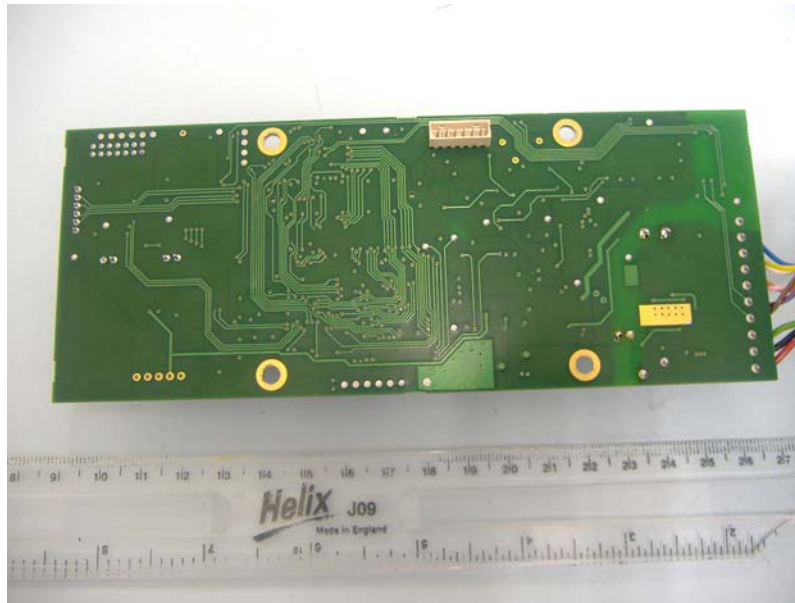
PHOTOGRAPH No. 3

TRANSMITTER REAR VIEW



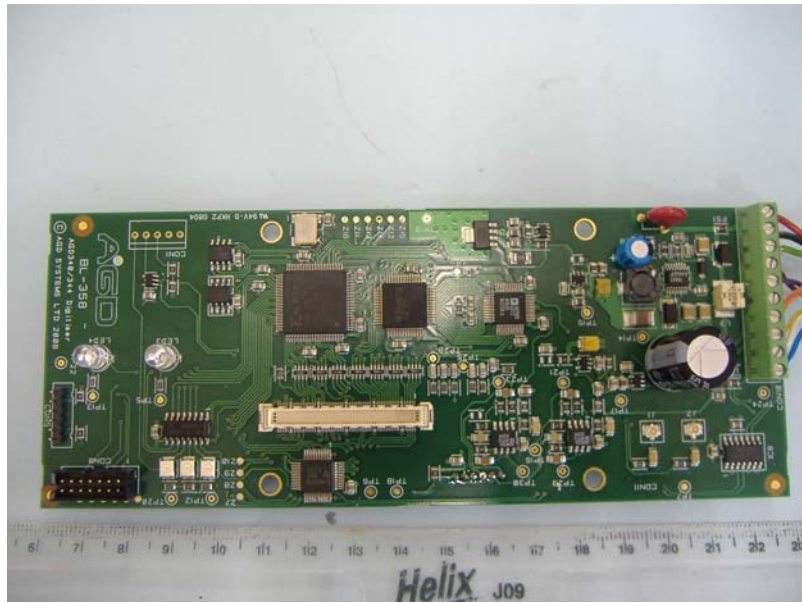
PHOTOGRAPH No. 4

PSU & DATA PCB TRACK SIDE



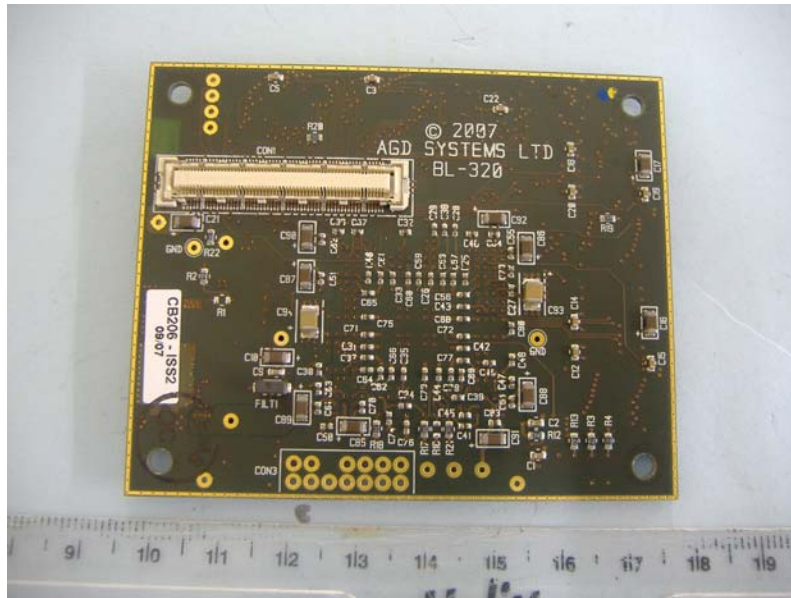
PHOTOGRAPH No. 5

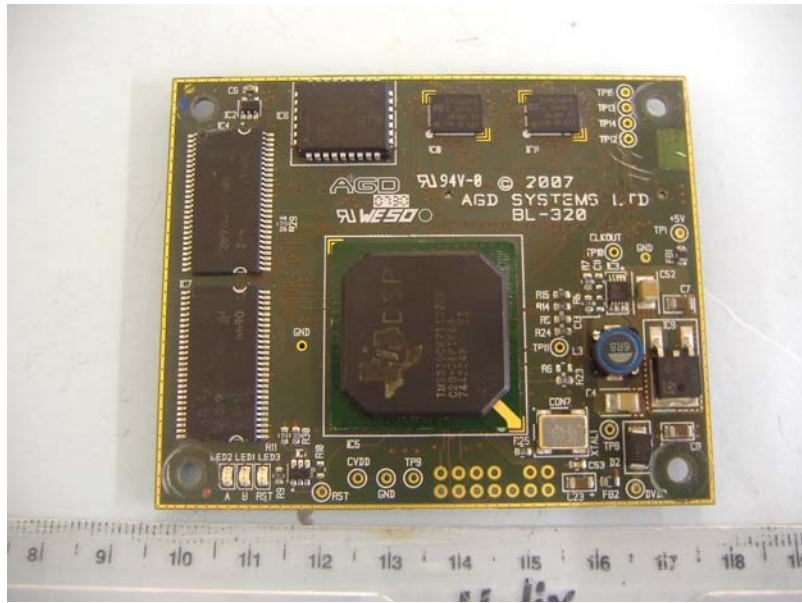
PSU & DATA PCB COMPONENT SIDE



PHOTOGRAPH No. 6

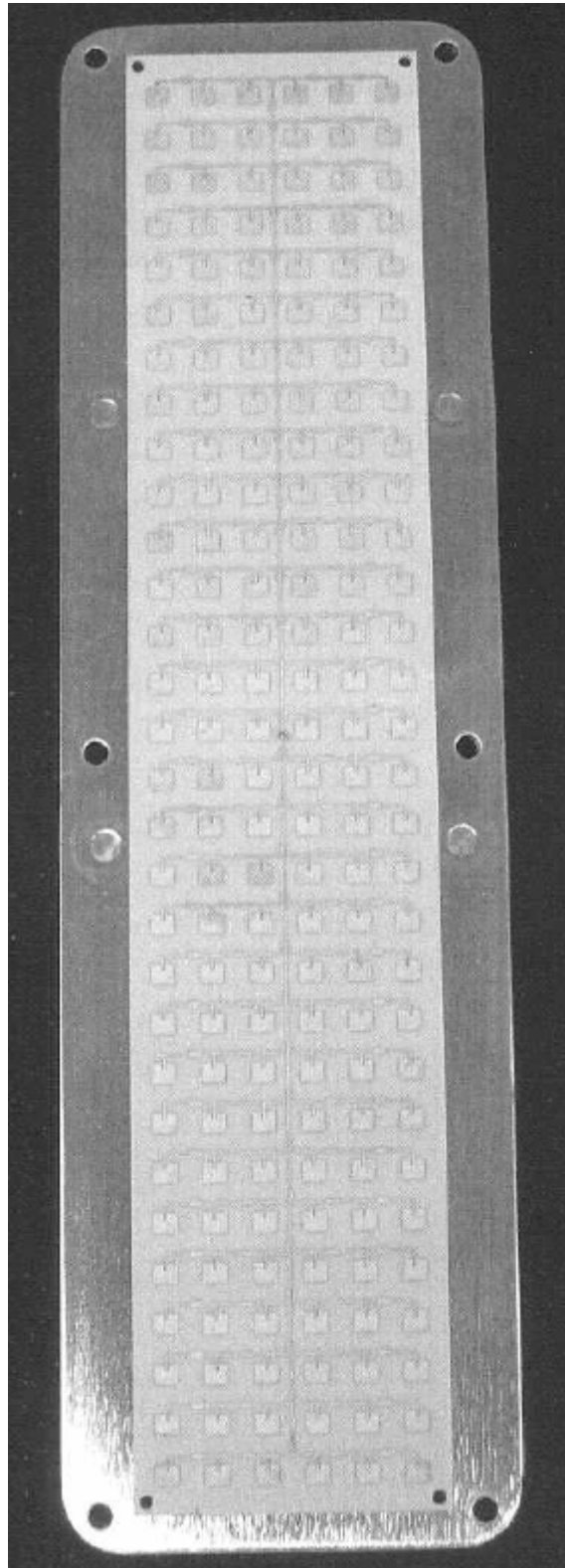
DSP PCB TRACK SIDE





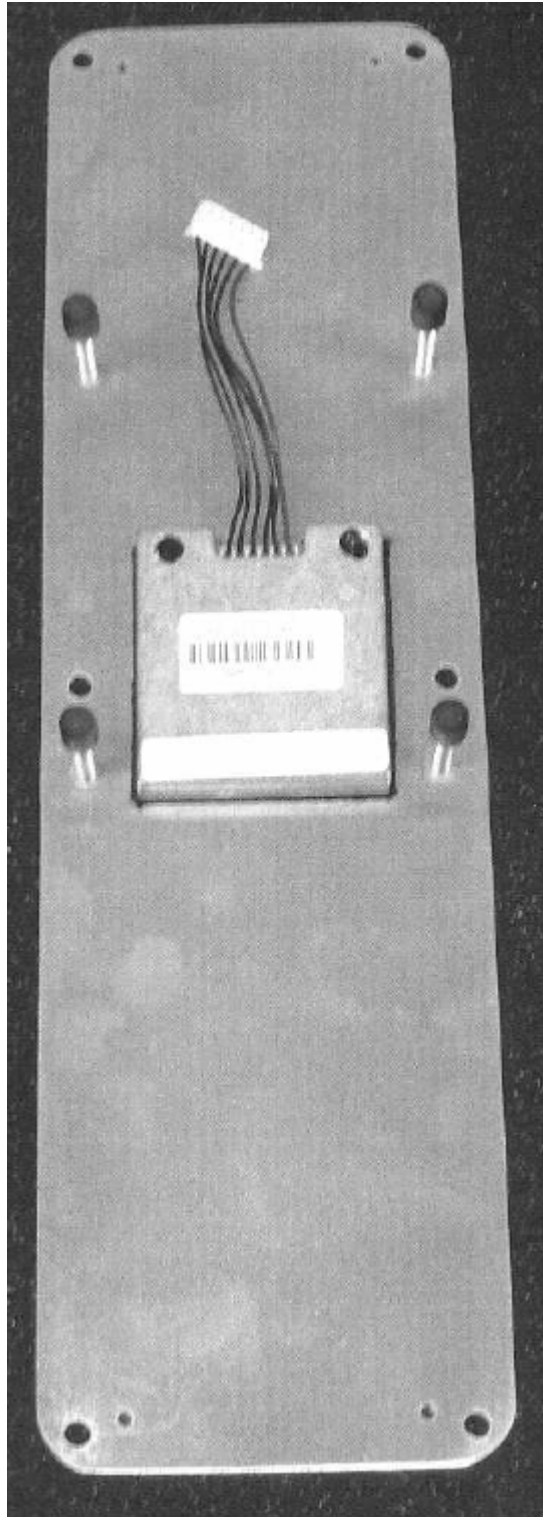
PHOTOGRAPH No. 8

RF MODULE ANTENNA SIDE



PHOTOGRAPH No. 8

RF MODULE REAR SIDE



ANNEX B
APPLICANT'S SUBMISSION OF DOCUMENTATION LIST

APPLICANT'S SUBMISSION OF DOCUMENTATION LIST

a.	TCB	-	APPLICATION	[X]
		-	FEE	[X]
b.	AGENT'S LETTER OF AUTHORISATION	-		[X]
c.	MODEL(s) vs IDENTITY	-		[X]
d.	ALTERNATIVE TRADE NAME DECLARATION(s)	-		[]
e.	LABELLING	-	PHOTOGRAPHS	[X]
		-	DECLARATION	[]
		-	DRAWINGS	[]
f.	TECHNICAL DESCRIPTION	-		[X]
g.	BLOCK DIAGRAMS	-	Tx	[X]
		-	Rx	[]
		-	PSU	[]
		-	AUX	[]
h.	CIRCUIT DIAGRAMS	-	Tx	[X]
		-	Rx	[]
		-	PSU	[]
		-	AUX	[]
i.	COMPONENT LOCATION	-	Tx	[X]
		-	Rx	[]
		-	PSU	[]
		-	AUX	[]
j.	PCB TRACK LAYOUT	-	Tx	[X]
		-	Rx	[]
		-	PSU	[]
		-	AUX	[]
k.	BILL OF MATERIALS	-	Tx	[X]
		-	Rx	[]
		-	PSU	[]
		-	AUX	[]
l.	USER INSTALLATION / OPERATING INSTRUCTIONS	-		[X]

ANNEX C
MEASUREMENT UNCERTAINTY

Radio Testing – General Uncertainty Schedule

All statements of uncertainty are expanded standard uncertainty using a coverage factor of 1.96 to give a 95% confidence where no required test level exists.

[1] Adjacent Channel Power

Uncertainty in test result = **1.86dB**

[2] Carrier Power

Uncertainty in test result (Equipment - TRLUH120) = **2.18dB**

Uncertainty in test result (Equipment – TRL05) = **1.08dB**

Uncertainty in test result (Equipment – TRL479) = **2.48dB**

[3] Effective Radiated Power

Uncertainty in test result = **4.71dB**

[4] Spurious Emissions

Uncertainty in test result = **4.75dB**

[5] Maximum frequency error

Uncertainty in test result (Equipment - TRLUH120) = **119ppm**

Uncertainty in test result (Equipment – TRL05) = **0.113ppm**

Uncertainty in test result (Equipment – TRL479) = **0.265ppm**

[6] Radiated Emissions, field strength OATS 14kHz-18GHz Electric Field

Uncertainty in test result (14kHz – 30MHz) = **4.8dB**, Uncertainty in test result (30MHz – 1GHz) = **4.6dB**,

Uncertainty in test result (1GHz-18GHz) = **4.7dB**

[7] Frequency deviation

Uncertainty in test result = **3.2%**

[8] Magnetic Field Emissions

Uncertainty in test result = **2.3dB**

[9] Conducted Spurious

Uncertainty in test result (Equipment TRL479) Up to 8.1GHz = **3.31dB**

Uncertainty in test result (Equipment TRL479) 8.1GHz – 15.3GHz = **4.43dB**

Uncertainty in test result (Equipment TRL479) 15.3GHz – 21GHz = **5.34dB**

Uncertainty in test result (Equipment TRLUH120) Up to 26GHz = **3.14dB**

[10] Channel Bandwidth

Uncertainty in test result = **15.5%**

[11] Amplitude and Time Measurement – Oscilloscope

Uncertainty in overall test level = **2.1dB**, Uncertainty in time measurement = **0.59%**, Uncertainty in Amplitude measurement = **0.82%**

[11] Power Line Conduction

Uncertainty in test result = **3.4dB**

[12] Spectrum Mask Measurements

Uncertainty in test result = **2.59% (frequency)**
Uncertainty in test result = **1.32dB (amplitude)**

[13] Adjacent Sub Band Selectivity

Uncertainty in test result = **1.24dB**

[14] Receiver Blocking – Listen Mode, Radiated

Uncertainty in test result = **3.42dB**

[15] Receiver Blocking – Talk Mode, Radiated

Uncertainty in test result = **3.36dB**

[16] Receiver Blocking – Talk Mode, Conducted

Uncertainty in test result = **1.24dB**

[17] Receiver Threshold

Uncertainty in test result = **3.23dB**

[18] Transmission Time Measurement

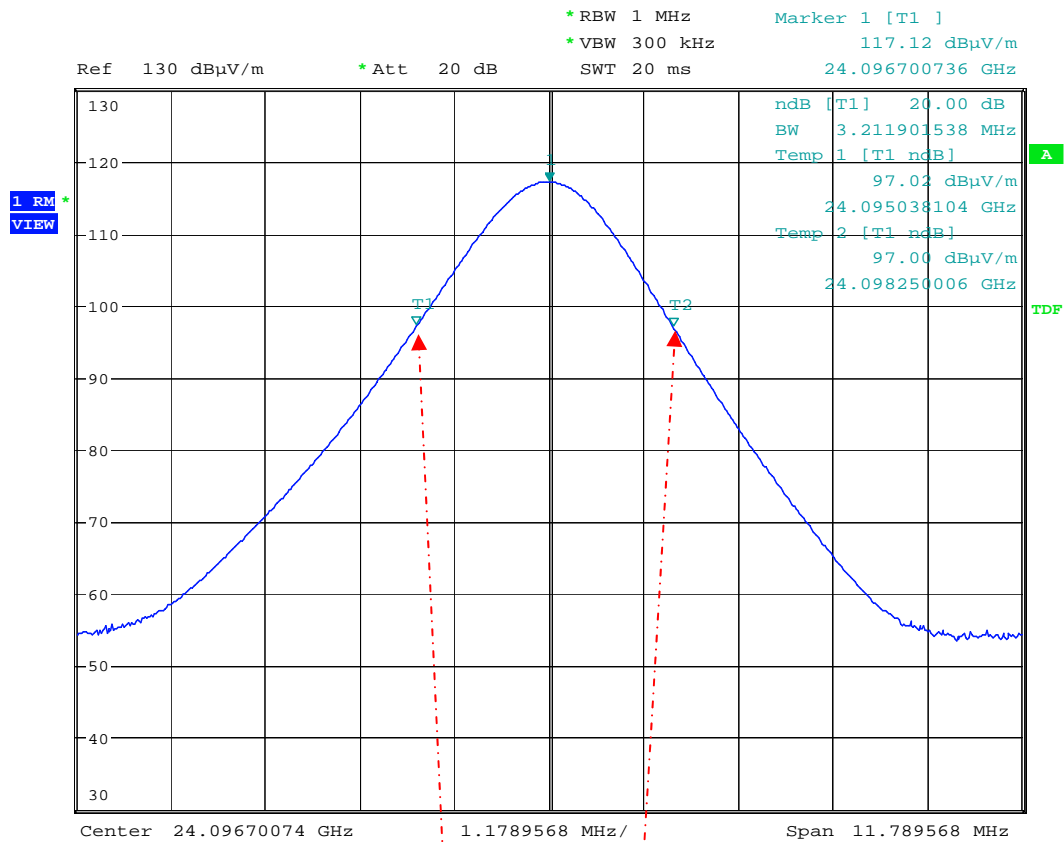
Uncertainty in test result = **7.98%**

ANNEX D
TEST EQUIPMENT CALIBRATION

TRL Number	Equipment Type	Manufacturer	Last Cal Calibration	Calibration Period	Due For Calibration
UH003	Receiver	R&S	05/12/2007	12	05/12/2008
UH028	Log Periodic Ant	Schwarbeck	30/05/2007	24	30/05/2009
UH029	Bicone Antenna	Schwarbeck	22/05/2007	24	22/05/2009
UH041	Multimeter	AVOmeter	15/01/2008	12	15/01/2009
UH191	Bilog Antenna	York	11/08/2006	24	11/08/2008
UH195	LISN	R&S	04/01/2008	12	04/01/2009
UH253	1m Cable N type	TRL	30/01/2008	12	30/01/2009
UH254	1m Cable N type	TRL	30/01/2008	12	30/01/2009
UH269	1m Cable N type	TRL	30/01/2008	12	30/01/2009
UH270	1m Cable N type	TRL	30/01/2008	12	30/01/2009
UH271	1.5m Cable N type	TRL	30/01/2008	12	30/01/2009
UH272	1.5m Cable N type	TRL	30/01/2008	12	30/01/2009
UH273	2m Cable N type	TRL	30/01/2008	12	30/01/2009
UH274	2m Cable N type	TRL	30/01/2008	12	30/01/2009
UH281	Spectrum Analyser	R&S	24/10/2007	12	24/10/2008
UH340	Signal Generator	HP	06/05/2008	12	06/05/2009
UH365	Harmonic Mixer	Agilent	16/07/2008	24	16/07/2010
UH366	Harmonic Mixer	Agilent	21/07/2008	24	21/07/2010
UH367	Harmonic Mixer	Agilent	02/07/2008	24	02/07/2010
L005	CMTA	R&S	30/10/2007	12	30/10/2008
L007	Loop Antenna	R&S	22/05/2007	24	22/05/2009
L138	1-18GHz Horn	EMCO	23/05/2007	24	23/05/2009
L139	1-18GHz Horn	EMCO	23/05/2007	24	23/05/2009
L176	Signal Generator	Marconi	01/03/2007	12	01/03/2008
L193	Bicone Antenna	Chase	06/05/2008	24	06/05/2010
L203	Log Periodic Ant	Chase	06/05/2008	24	06/05/2010
L426	Temperature Indicator	Fluke	09/01/2007	12	09/01/2008
L479	Analyser	Anritsu	09/01/2007	12	09/01/2008
L572	Pre Amplifier	Agilent		Calibrate in use	
L654	Spectrum Analyser	HP	01/07/2008	12	01/07/2009

ANNEX E
BANDWIDTH PLOT

BANDWIDTH PLOT

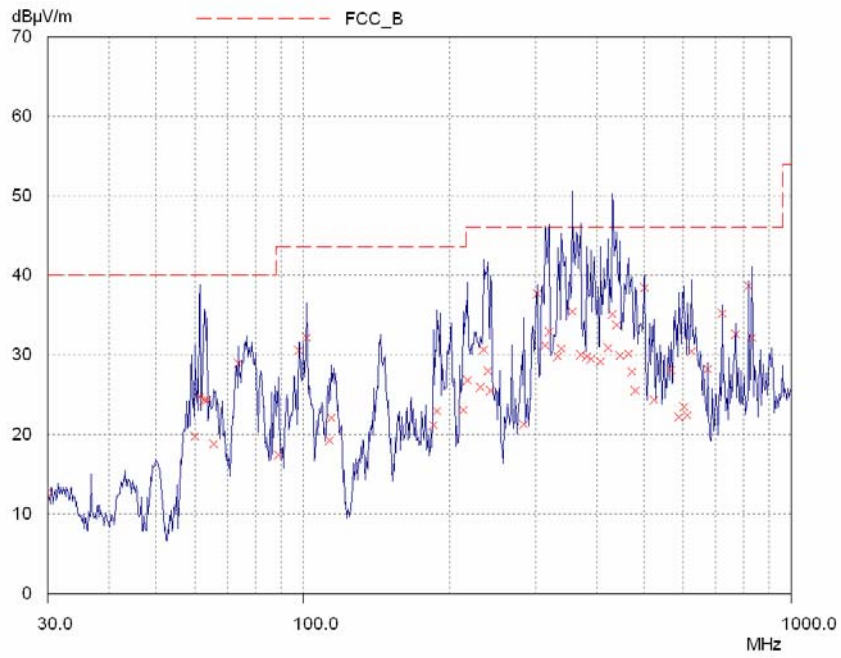


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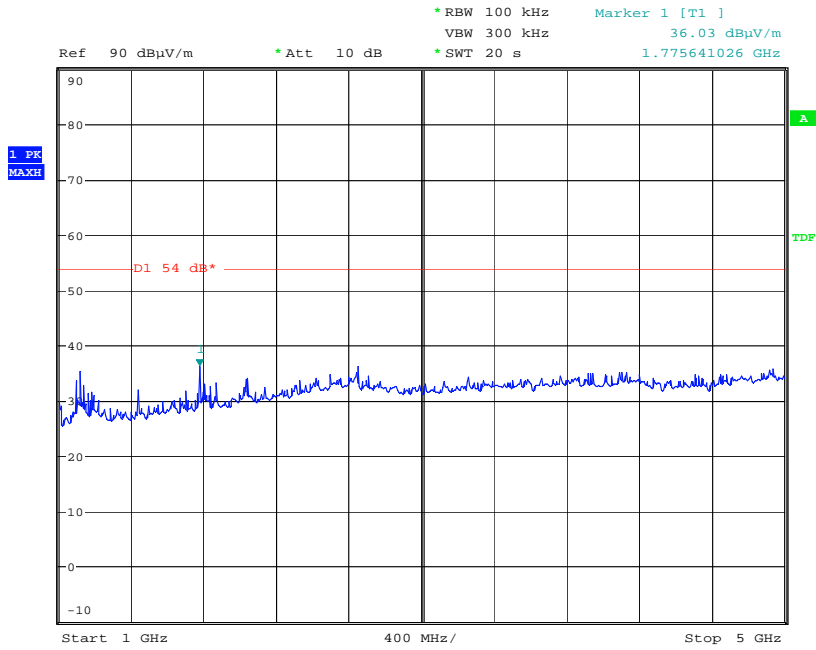
f_{Lower} f_{Higher}

f_{Lower} = 24.0950381 GHz
 f_{Higher} = 24.0982500 GHz
 Occupied Bandwidth = 3.21190 MHz

ANNEX F
EMISSIONS GRAPH(s)

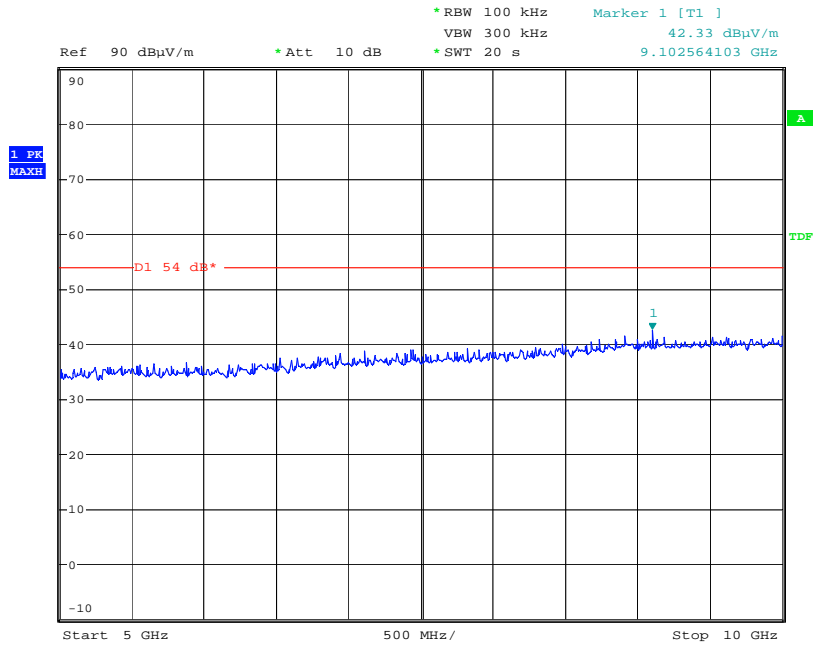


30 MHz – 1GHz



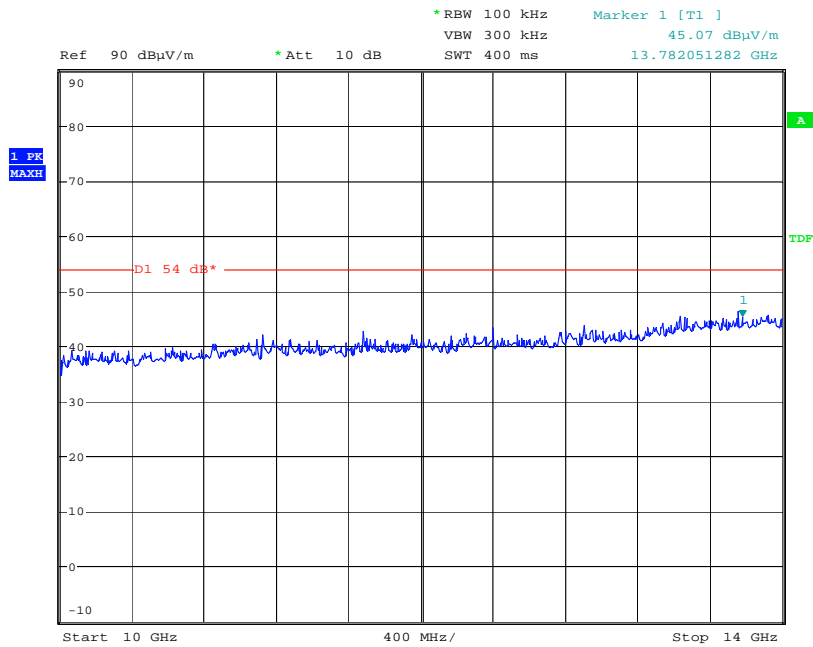
Date: 29.APR.2008 09:59:40

1GHz – 5 GHz



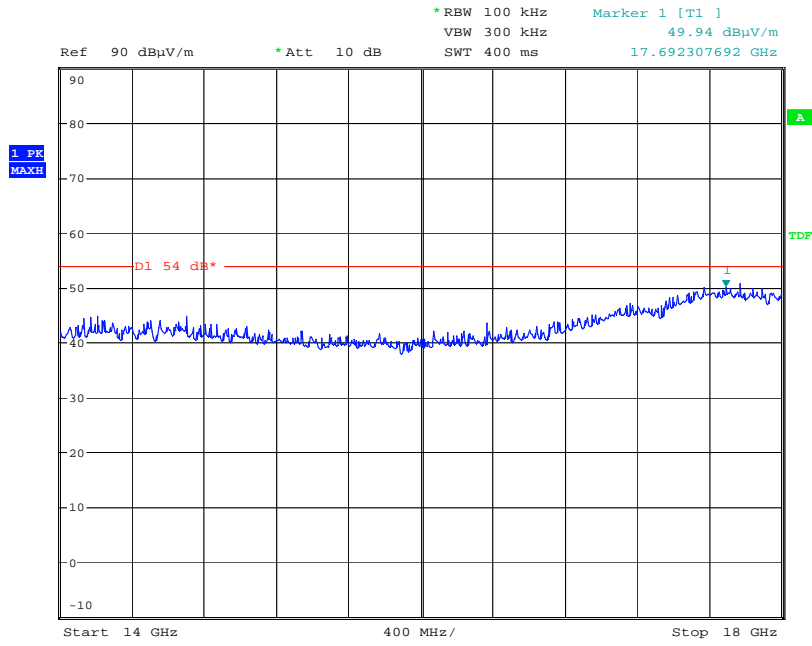
Date: 29.APR.2008 09:54:28

5GHz – 10GHz



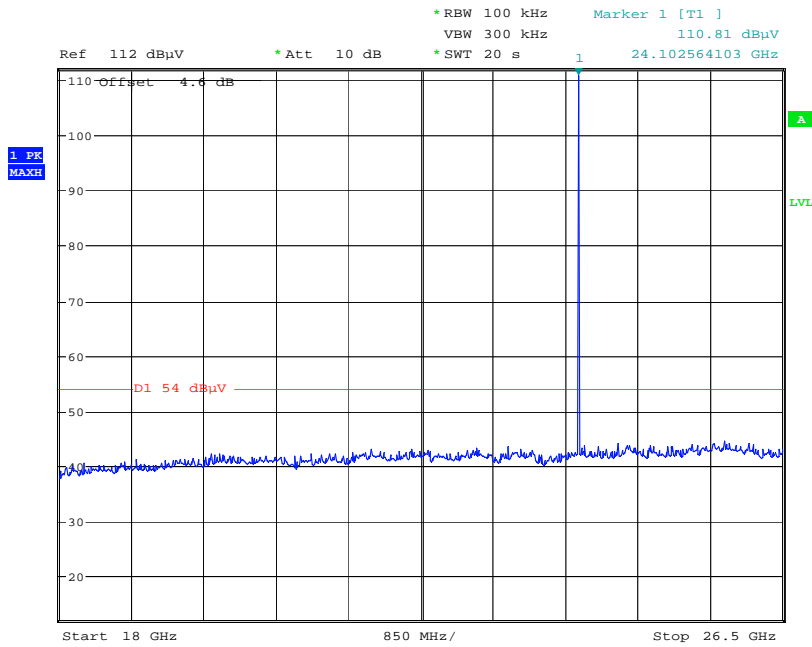
Date: 29.APR.2008 09:55:07

10GHz – 14GHz



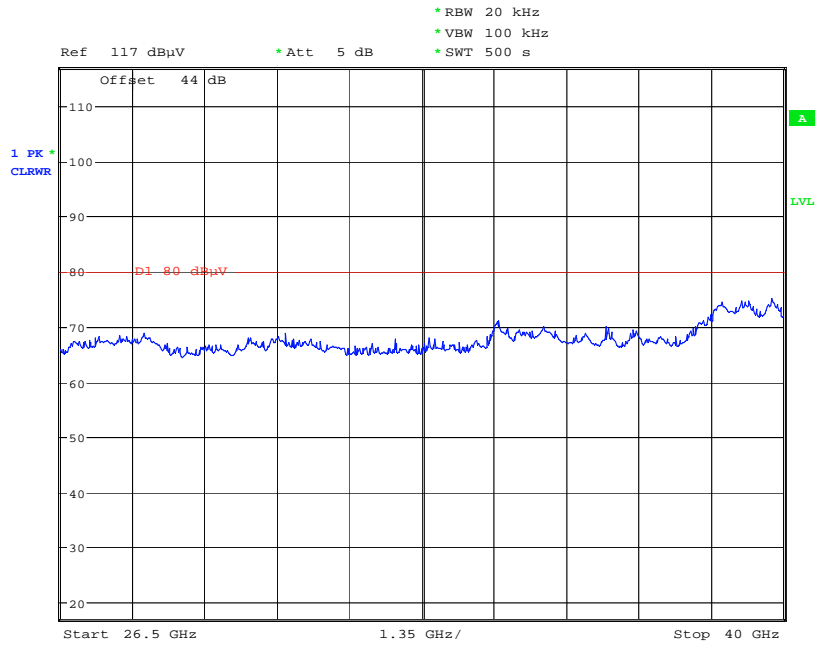
Date: 29.APR.2008 09:55:38

14GHz – 18GHz



Date: 29.APR.2008 10:09:57

18 GHz – 26.5GHz



Date: 29.APR.2008 11:39:00

26.5GHz – 40GHz

ANNEX G
AC POWERLINE CONDUCTION GRAPH(s)

