



Bluetooth Test Report

4_Plext_0102_BTT_RFa

for

Clarion Bluetooth Car Kit CM HS1

Headset

Product category: Mobile Phone Accessory

7 layers AG

Borsigstrasse 11
D-40880 Ratingen
Germany

Phone: +49 (0) 2102 749-0

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Note:

The following test results relate only to the devices specified in this document. This report shall not be reproduced in parts without the written approval of the testing laboratory.

Registergericht - Registered in:
Ratingen, HRB 3264
Aufsichtsratsvorsitzende -
Chairman of the Supervisory Board:
Dr. Sabine Grobecker

Vorstand - Board of Directors:
Dr. Wolfgang Dahm
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7 layers, Borsigstrasse 11
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1. Administrative Data

1.1 Testing Laboratory

Company name: 7 layers AG
Address: Borsigstrasse 11
D-40880 Ratingen
Germany
Laboratory accreditation info: TTI-P-G 178/99
96716
Responsible for accreditation scope: Dipl. - Ing. Frank Spiller
Dipl. - Ing. Marco Kullik
Version of test report: 1.0

1.2 Project Data

Project leader: Dipl.-Ing. Andreas Petz
Date of test report: 2002-09-04
Date of first test: 2002-08-12
Date of last test: 2002-08-18

1.3 Applicant Data

Company name: Clarion
Address: Phase 3, Free Industrial Zone
11900 Bayan Lepas
Penang
Malaysia
Contact person: Mr. Pang Tong Khim

1.4 Manufacturer Data

Company name: see Applicant
Address:

Contact person:



2. Testobject Data

2.1 General EUT Description

Product Category:	Mobile Phone Accessory
Equipment under test:	Clarion Bluetooth Car Kit CM HS1
Nominal voltage:	5.5 V
Low voltage:	5.5 V
High voltage:	5.5 V
Power class:	2
Longest supp. packet:	DH1
Max. antenna gain:	00,0 dBi
Nominal temperature:	23°C
Low temperature:	-20°C
High temperature:	+80°C



2.2 Supported Profiles

- Profile K1:GAP Conformance
- Profile K2:SDAP Interoperability
- Profile K3:Cordless Interoperability
- Profile K4:Intercom Interoperability
- Profile K5:Serial Port Profile Conformance
- Profile K6:Headset Interoperability
- Profile K7:DUN Interoperability
- Profile K8:FAX Interoperability
- Profile K9:LAN Access Interoperability
- Profile K11:Object Push Profile Interoperability
- Profile K12:File Transfer Profile Interoperability
- Profile K13:Synchronization Profile Interoperability
- Extended Service Discovery Profile
- Personal Area Network Interoperability Profile
- Basic Printing Interoperability Profile
- Hardcopy Cable Replacement
- Hands-Free Interoperability Profile
- Basic Imaging Interoperability Profile
- Audio/Video Distribution Transport Protocol Conformance
- Audio/Video Control Transport Protocol Conformance
- Generic Audio/Video Distribution Profile Conformance
- Advanced Audio Distribution Profile Interoperability
- Audio/Video Remote Control Profile Interoperability
- Human Device Interface
- Common ISDN Access Profile
- SIM Access Profile



2.3 EUT: List of Devices and Configurations

BD Address	Configura- tion	HW status	SW status	Serial Number	Date of receipt	Date of return
0050c215a02f	a01	FIPICD 03	272 BC02x_hci_IVI_Ik. 3_56	F1031	2002-08-12	
0050c215a031	b01	FIPICD 03	272 BC02x_hci_IVI_Ik. 3_56	F1033	2002-08-12	

2.4 EUT: Equipment for Profile Interoperability Testing

Short Description	Interoperability Device	Type Designation	Manufac turer	HW Status	SW Status	Serial No.
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2.5 (Interoperability) Test Setups

Setup No.	Combination of EUT and Interoperability	Remarks
setup01	EUT + Interface Box + TS8960	set-up for conducted tests
setup02	EUT + Interface Box + Anechoic Chamber	set-up for radiated tests



3. Test Results

3.1 General

Documentation of tested devices and results:

Available at the 7 layers AG Test Laboratory.

The complete set of measurement results is stored in printed form at the 7 layers AG Test laboratory and is available on demand.

The reference to the test system print outs is shown by the unique combination of the Test Case Identifier (TCID), EUT, Test conditions (temp., voltage, packet type) and Date of Test.

Interpretation of test results:

The results of the inspection are described on the following page(s). "Passed" in the summary list in chapter 3.2 of this test report means:

1) The performed tests were verified according to:

Test Case Reference List **2002-07-22**

Test Case Reference Addendum -

Core Specification Ver. **1.1**

and were verified according to the following Test Specifications and ICS/IXIT documents:

Test Spec Name	Test Spec Ver.	ICS/IXIT Ver.
Part A	A: 0.91	0.91

including the following erratas:

Test case	Test Spec. ver.	Errata
TRC/CA/01/C	A: 0.91	err 189
TRC/CA/01/C	A: 0.91	err 259
TRC/CA/01/C	A: 0.91	err 262
TRC/CA/01/C	A: 0.91	err 299 ur
TRM/CA/01/C	A: 0.91	err 189
TRM/CA/02/C	A: 0.91	err 189
TRM/CA/04/C	A: 0.91	err 189
TRM/CA/05/C	A: 0.91	err 189
TRM/CA/06/C	A: 0.91	err 189

2) The tested device is conformant to the Bluetooth specifications.

The detailed results of all performed tests are available within the internal documentation of the test laboratory.

In cases where "declaration" is stated in the summary list, the corresponding documents are available within the clients documentation.

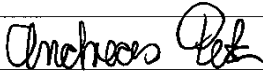

In cases where "not applicable" is stated in the summary list, the test case requirements are not relevant to the specific test equipment implementation.



General Comment(s):

According to the Delta Test Concept for a BC2 chip used in this device which is agreed with BQB Mr. Andreas Gruenwaldt only the following tests are performed at normal test conditions (besides TRM/CA/01/C and RCV/CA/01/C also at extreme test conditions).

Project leader:

Responsible for accreditation scope:

 7 layers AG, Borsigstr. 11
40880 Ratingen, Germany
Phone +49 (0)2102 749 0



3.2 Summary List

Part A (RF Test Results)

TC Identifier	Test Spec.									
Description										
Test Conditions	EUT Power	Test Voltage	Test Temp.	Packet Type	TX/RX Freq.	Configuration	Setup	Date	Result	Footnote

TRM/CA/01/C A: 0.91

Output Power

Max	Normal	Normal	DH1	hopping sequence	a01	setup01	2002-08-17	passed	
Max	Low	Low	DH1	hopping sequence	a01	setup01	2002-08-17	passed	
Max	High	High	DH1	hopping sequence	a01	setup01	2002-08-17	passed	

TRM/CA/02/C A: 0.91

Power Density

Max	Normal	Normal	DH1	hopping sequence EU	a01	setup01	2002-08-17	passed	
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TRM/CA/04/C A: 0.91

TX Output Spectrum – Frequency range

Max	Normal	Normal	DH1	High / Low Europe	a01	setup01	2002-08-17	passed	
Max	Normal	Normal	DH1	Low / High Europe	a01	setup01	2002-08-17	passed	

TRM/CA/05/C A: 0.91

TX Output Spectrum – 20 dB Bandwidth

Max	Normal	Normal	DH1	High / Low	a01	setup01	2002-08-17	passed	
Max	Normal	Normal	DH1	Low / High	a01	setup01	2002-08-17	passed	
Max	Normal	Normal	DH1	Mid / Low	a01	setup01	2002-08-17	passed	

TRM/CA/06/C A: 0.91

TX Output Spectrum – Adjacent channel power

Max	Normal	Normal	DH1	High-3 / Low	a01	setup01	2002-08-17	passed	
Max	Normal	Normal	DH1	Low+3 / High	a01	setup01	2002-08-17	passed	
Max	Normal	Normal	DH1	Mid / Low	a01	setup01	2002-08-17	passed	



Part A (RF Test Results)

TC Identifier		Test Spec.								
Description										
Test Conditions	EUT Power	Test Voltage	Test Temp.	Packet Type	TX/RX Freq.	Configuration	Setup	Date	Result	Footnote

TRC/CA/01/C A: 0.91

Out-of-Band Spurious Emissions

ETS conducted.	Max	Normal	Normal	DH1	High / Low	a01	setup01	2002-08-17	passed	
ETS conducted.	Max	Normal	Normal	DH1	Low / High	a01	setup01	2002-08-17	passed	
ETS conducted.	-	Normal	Normal	-	Standby	a01	setup01	2002-08-17	passed	
ETS radiated	Max	Normal	Normal	DH1	High / Low	b01	setup02	2002-08-12	passed	002
ETS radiated	Max	Normal	Normal	DH1	Low / High	b01	setup02	2002-08-12	passed	002
ETS radiated	-	Normal	Normal	-	Standby	b01	setup02	2002-08-12	passed	003
FCC conducted.	Max	Normal	Normal	DH1	High / Low	a01	setup01	2002-08-12	passed	
FCC conducted.	Max	Normal	Normal	DH1	Low / High	a01	setup01	2002-08-12	passed	
FCC conducted.	Max	Normal	Normal	DH1	Mid / Low	a01	setup01	2002-08-12	passed	
FCC radiated	Max	Normal	Normal	DH1	High / Low	b01	setup02	2002-08-12	passed	001
FCC radiated	Max	Normal	Normal	DH1	Low / High	b01	setup02	2002-08-12	passed	001
FCC radiated	Max	Normal	Normal	DH1	Mid / Low	b01	setup02	2002-08-12	passed	001

RCV/CA/01/C A: 0.91

Sensitivity – single slot packets

Max	Normal	Normal	DH1	High / Low	a01	setup01	2002-08-17	passed	
Max	Normal	Normal	DH1	Low / High	a01	setup01	2002-08-17	passed	
Max	Normal	Normal	DH1	Low / Mid	a01	setup01	2002-08-17	passed	
Max	Low	Low	DH1	High / Low	a01	setup01	2002-08-18	passed	
Max	Low	Low	DH1	Low / High	a01	setup01	2002-08-18	passed	
Max	Low	Low	DH1	Low / Mid	a01	setup01	2002-08-18	passed	
Max	High	High	DH1	High / Low	a01	setup01	2002-08-17	passed	
Max	High	High	DH1	Low / High	a01	setup01	2002-08-17	passed	
Max	High	High	DH1	Low / Mid	a01	setup01	2002-08-17	passed	



3.3 Footnotes and Testsystem Environmental Conditions

Footnotes:

- 001 Tested in "local TX mode". The tests have been continued on 2002-08-13 (18.0 - 25.0 GHz) and completed on 2002-08-14 (30.0 MHz - 1.0 GHz).
- 002 Tested in "local TX mode".
- 003 Tested in continuous scan repetition mode "SR0".



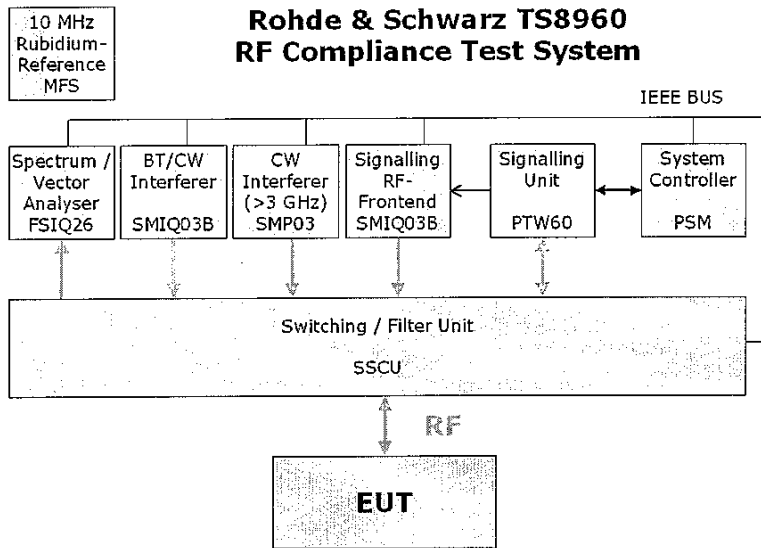
Test System Environmental Conditions:

Test System **TS8960R**

	Date	Temperature	Humidity	AirPressure
	12.08.02	25 °C	48 %rel	1008 hPa
	17.08.02	27 °C	26 %rel	1012 hPa
	18.08.02	28 °C	27 %rel	1013 hPa

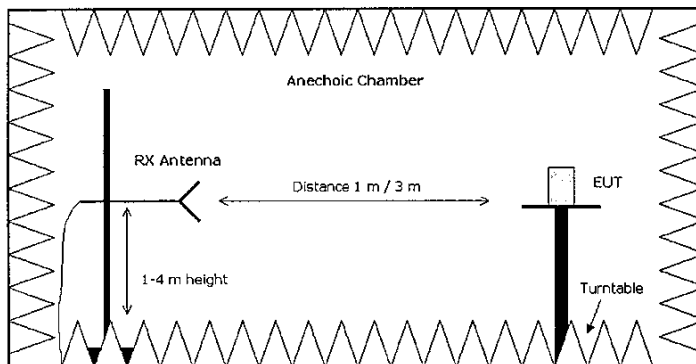
4. Description of Test Systems

System 1 - Conducted tests with TS 8960



Test system 1 was checked by internal verification procedure of 7 layers according to the principles of our Management System, approved by DAR.

System 2 - Radiated tests in the anechoic chamber



EMI
Analyser
ESI 26

Remark:
Depending on the frequency range suitable attenuators, antenna types, filters and pre-amplifiers are used.
The measurement distance is adjusted accordingly, also antenna height.
The chamber can be configured as semi- or fully-anechoic chamber.

This test system is under permanent surveillance of DAR and FCC.

Test system 2 (anechoic chamber) is under permanent surveillance of DAR and FCC

5. List of used Equipment



EMI Test System

Testlab Ratingen, control area

Manufacturer	Rohde&Schwarz	Hardware version(s)	
Serial no.		Software version(s)	for EN 55022: ES-K1 Ver. 1.60
Equipment	Type	Serial no.	Manufacturer
Comparison Noise Emitter	CNE III	99/016	York
EMI Analyzer	ESI 26	830482/004	Rohde & Schwarz
Signal Generator	SMR 20	846834/008	Rohde & Schwarz

EUT Digital Signalling System

Testlab Ratingen, control area

Manufacturer		Hardware version(s)	
Serial no.		Software version(s)	
Equipment	Type	Serial no.	Manufacturer
Digital Radio Communication Tester	CMD 55	831050/020	Rohde & Schwarz
Signalling Unit for Bluetooth Spurious Emissions	PTW60	100004	Rohde & Schwarz

Auxiliary Test Equipment

Testlab Ratingen

Manufacturer	various	Hardware version(s)	
Serial no.		Software version(s)	
Equipment	Type	Serial no.	Manufacturer
Broadband Resist. Power Divider N	1506A / 93459	LM390	Weinschel
Broadband Resist. Power Divider SMA	1515 / 93459	LN673	Weinschel
Digital Multimeter 01	Voltcraft M-3860M	IJ096055	Conrad
Digital Multimeter 02	Voltcraft M-3860M	IJ095955	Conrad
Digital Oscilloscope	TDS 784C	B021311	Tektronix
Fibre optic link Satellite	FO RS232 Link	181-018	Pontis
Fibre optic link Transceiver	FO RS232 Link	182-018	Pontis
I/Q Modulation Generator	AMIQ-B1	832085/018	Rohde & Schwarz
Notch Filter ultra stable	WRCA800/960-6EEK	24	Wainwright
Signal Generator	SMIQ 03B	832492/061	Rohde & Schwarz
Temperature Chamber	KWP 120/70	59226012190010	Weiss
	VT 4002	58566002150010	Vötsch
ThermoHygro_01	430202		Fischer



Rohde & Schwarz TS8960

Testlab Ratingen, BT Lab

Bluetooth RF Conformance Test System

Manufacturer Rohde & Schwarz **Hardware version(s)** Ident-No.: 1133.1810.02

Serial no. 338864 **Software version(s)** Operation System: SuSE Linux 6.0, Kernel 2.0.36
 Test System Software: (1.12) (1.14) (1.17) (1.18) (1.19) (1.22) (1.23) (1.24pre) (1.24) 1.24 + Patch + 2.0

Equipment	Type	Serial no.	Manufacturer
Laserprinter	Laserjet 2100	FRFJ023447	HP
Monitor 19"	Flexscan T68	50565029 -ED	EIZO
Power Meter	NRVD	832025/059	Rohde & Schwarz
Power Sensor	NRV-Z1	832279/013	Rohde & Schwarz
	NRV-Z1	832279/015	Rohde & Schwarz
Power Supply	PS-2403D	-	Conrad
	E3632A	MY40003776	Agilent
RF Step Attenuator	RSP	833695/001	Rohde & Schwarz
Rubidium Frequency Normal	MFS	002	Efratom
Signal Analyser	FSIQ26	832695/007	Rohde & Schwarz
Signal Generator	SMIQ03B	101175	Rohde & Schwarz
	SMIQ03B	832870/017	Rohde & Schwarz
	SMP 03	833680/003	Rohde & Schwarz
Signal Switching and Conditioning Unit	SSCU	338826/005	Rohde & Schwarz
Signalling Unit	PTW60 for TS8960	838312/014	Rohde & Schwarz
System Controller	PSM12	829323/008	Rohde & Schwarz

6. Photo Report



Anechoic Chamber

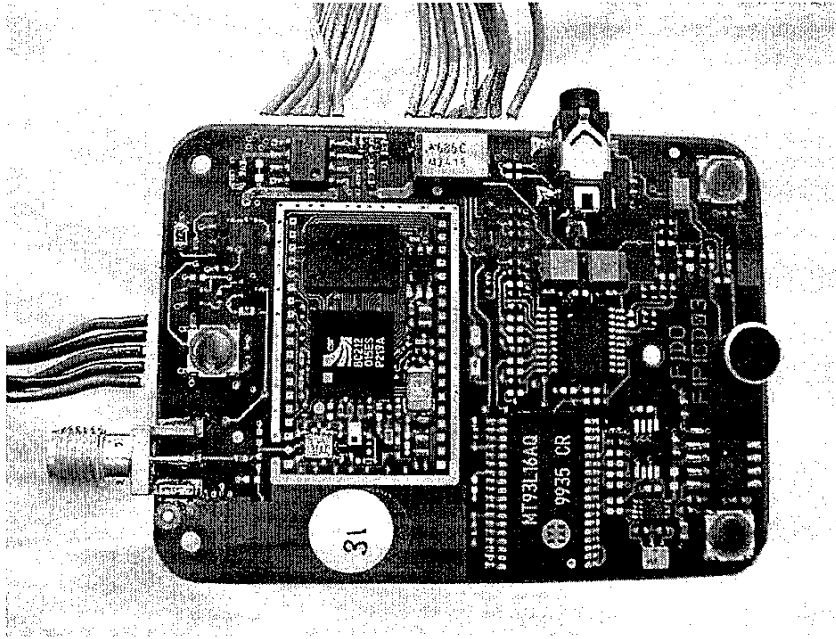
Testlab Ratingen

Manufacturer	various	Hardware version(s)		
Serial no.		Software version(s)		
Equipment	Type	Serial no.	Manufacturer	
Air Compressor (pneumatic)			Atlas Copco	
Controller	HD 100	100/603	HD GmbH H. Deisel	
EMC Camera	CE-CAM/1		CE-SYS	
EMC Camera for observation of EUT	CCD-400E	0005033	Mitsubishi	
Filter ISDN	B84312-C110-E1		Siemens&Matsushita	
Filter telephone systems / modem	B84312-C40-B1		Siemens&Matsushita	
Filter Universal 1A	B84312-C30-H3		Siemens&Matsushita	
Fully/Semi AE Chamber	10.58x6.38x6		Frankonia	
Turntable	DS 420S	420/573/99	HD GmbH, H. Deisel	
Valve Control Unit (pneum.)	VE 615P	615/348/99	HD GmbH, H. Deisel	

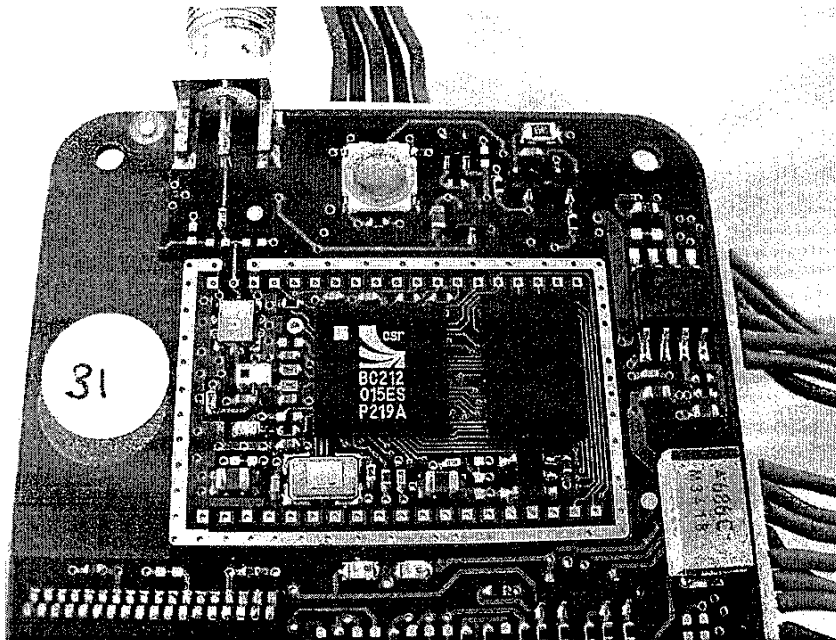
EMI Radiated Auxiliary Equipment

Testlab Ratingen, control area

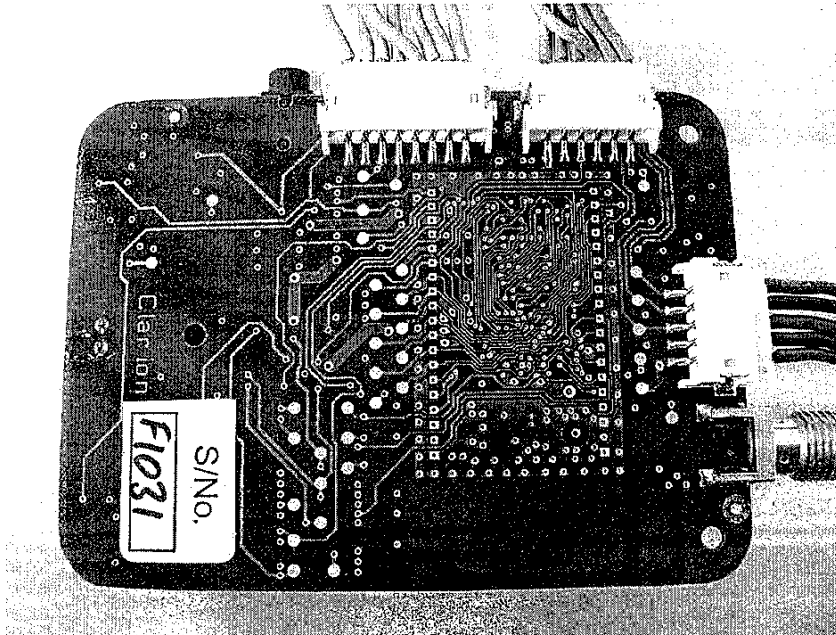
Manufacturer	various	Hardware version(s)		
Serial no.		Software version(s)		
Equipment	Type	Serial no.	Manufacturer	
Antenna mast 4m	MA 240	240/492	HD GmbH H. Deisel	
Biconical dipole	VUBA 9117	9117108	Schwarzbeck	
Broadband Amplifier 45MHz-27GHz	JS4-00102600-42-5A	619368	Miteq	
Cable "ESI to EMI Antenna"	RTK081+Aircell7	W18.01+W38.01a	Huber+Suhner	
Cable "ESI to Horn Antenna"	RTK 081	W18.04+3599/001	Rosenberger	
Double-ridged horn	HF 906	357357/001	Rohde & Schwarz	
	HF 906	357357/002	Rohde & Schwarz	
High Pass Filter	5HC3500/12750-1.2-KK	200035008	Trilithic	
	4HC1600/12750-1.5-KK	9942011	Trilithic	
	5HC2700/12750-1.5-KK	9942012	Trilithic	
KUEP pre amplifier	Kuep 00304000	001	7layers	
Log.-per. Antenna	HL 562 Ultralog	830547/003	Rohde & Schwarz	
Loop Antenna	HFH2-Z2	829324/006	Rohde & Schwarz	
Pyramidal Horn Antenna 26,5 GHz	Model 3160-09	9910-1184	EMCO	



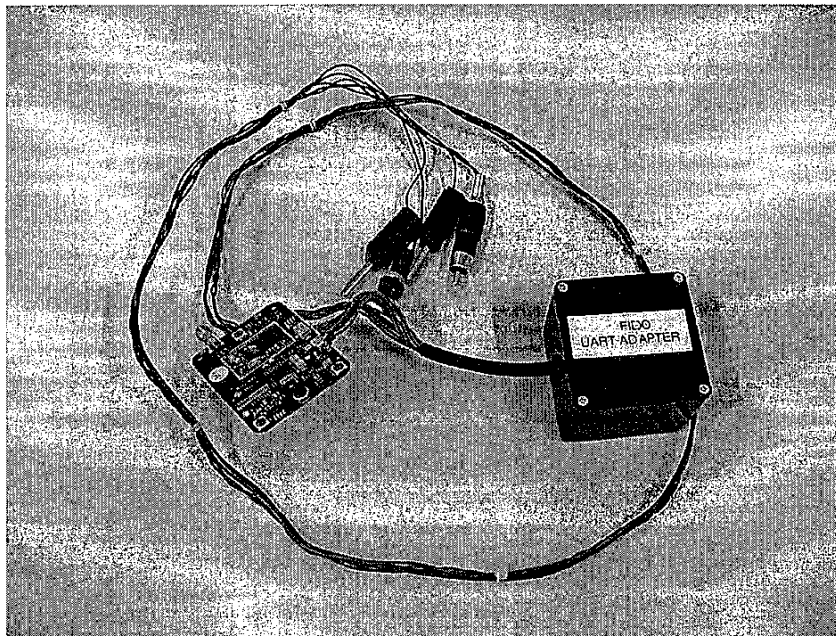
Picture 01 : F1031 PCB top view



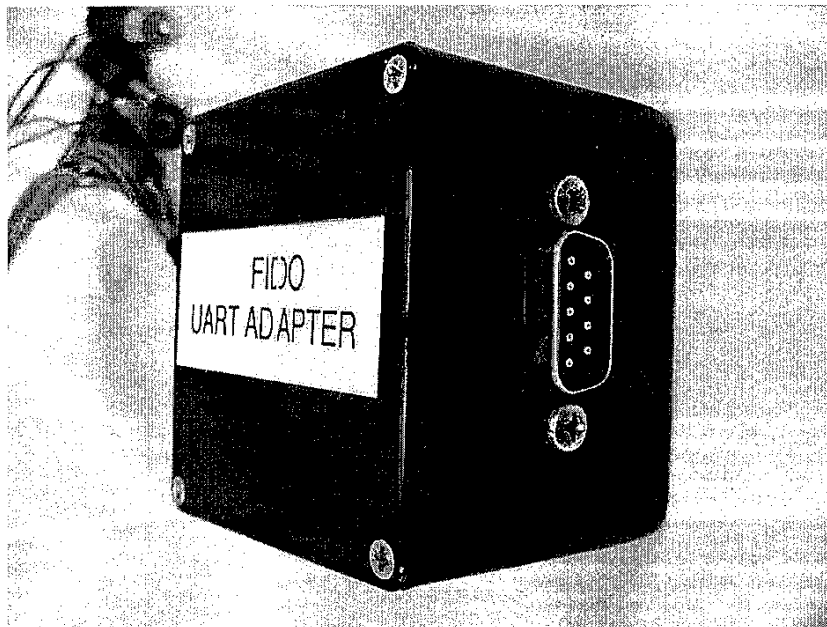
Picture 02 : F1031 top view - BT part detail



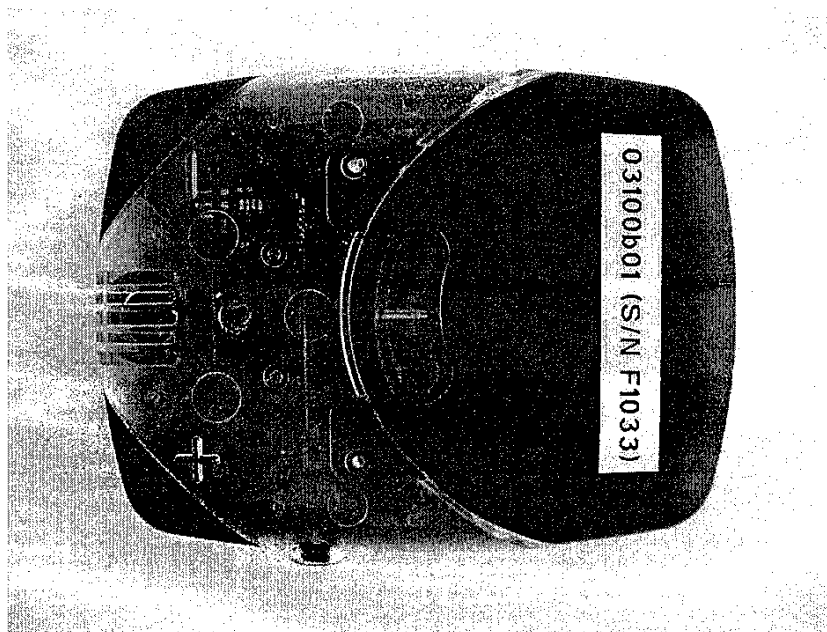
Picture 03 : F1031 PCB bottom view



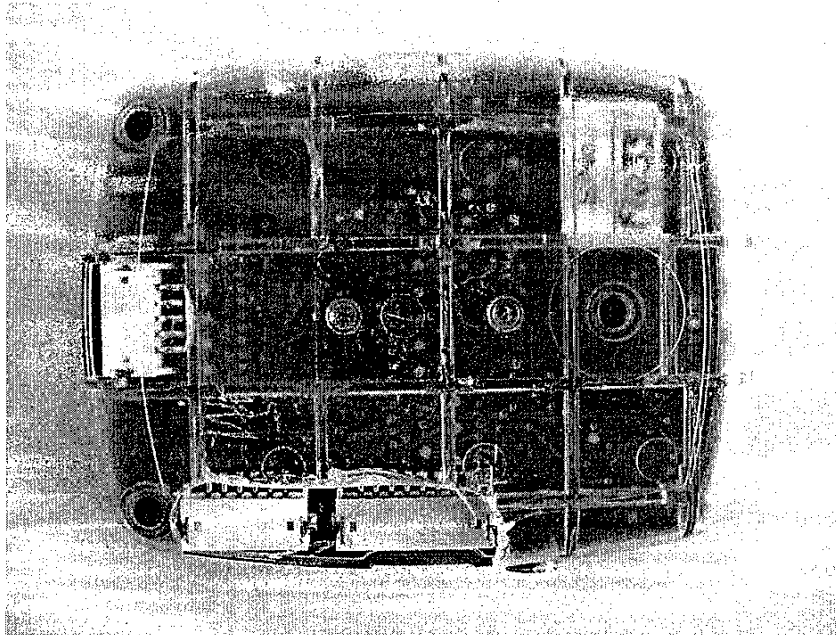
Picture 04 : EUT and interfaces used for testing



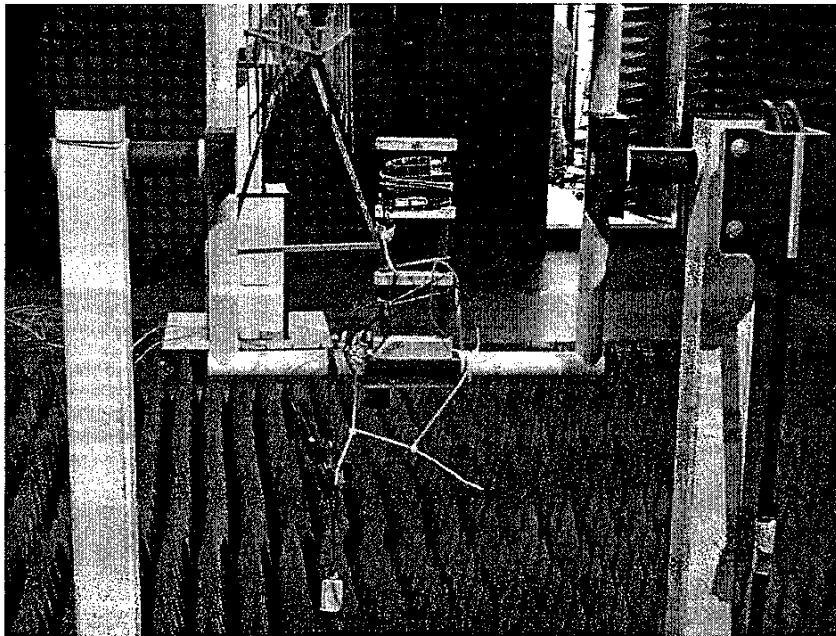
Picture 05 : UART adapter for EUT



Picture 06 : F1033 in housing, top view



Picture 07 : F1033 in housing, bottom view



Picture 08 : F1033, set-up for radiated measurements



Bluetooth Test Report

4_Plext_0102_BTT_HSa

for

Clarion Bluetooth Car Kit CM HS1

Headset

Product category: Mobile Phone Accessory

7 layers AG

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1. Administrative Data

1.1 Testing Laboratory

Company name: 7 layers AG
Address: Borsigstrasse 11
D-40880 Ratingen
Germany
Laboratory accreditation info: TTI-P-G 178/99
96716
Responsible for accreditation scope: Dipl. - Ing. Frank Spiller
Dipl. - Ing. Marco Kullik
Version of test report: 1.0

1.2 Project Data

Project leader: Dipl.-Ing. Andreas Petz
Date of test report: 2002-08-13
Date of first test: 2002-08-12
Date of last test: 2002-08-12

1.3 Applicant Data

Company name: Clarion
Address: Phase 3, Free Industrial Zone
11900 Bayan Lepas
Penang
Malaysia
Contact person: Mr. Pang Tong Khim

1.4 Manufacturer Data

Company name: see Applicant
Address:

Contact person:



2. Testobject Data

2.1 General EUT Description

Product Category:	Mobile Phone Accessory
Equipment under test:	Clarion Bluetooth Car Kit CM HS1
Nominal voltage:	5.5 V
Low voltage:	5.5 V
High voltage:	5.5 V
Power class:	2
Longest supp. packet:	DH1
Max. antenna gain:	0,0 dBi
Nominal temperature:	23°C
Low temperature:	-20°C
High temperature:	+80°C



2.2 Supported Profiles

- Profile K1:GAP Conformance
- Profile K2:SDAP Interoperability
- Profile K3:Cordless Interoperability
- Profile K4:Intercom Interoperability
- Profile K5:Serial Port Profile Conformance
- Profile K6:Headset Interoperability
- Profile K7:DUN Interoperability
- Profile K8:FAX Interoperability
- Profile K9:LAN Access Interoperability
- Profile K11:Object Push Profile Interoperability
- Profile K12:File Transfer Profile Interoperability
- Profile K13:Synchronization Profile Interoperability
- Extended Service Discovery Profile
- Personal Area Network Interoperability Profile
- Basic Printing Interoperability Profile
- Hardcopy Cable Replacement
- Hands-Free Interoperability Profile
- Basic Imaging Interoperability Profile
- Audio/Video Distribution Transport Protocol Conformance
- Audio/Video Control Transport Protocol Conformance
- Generic Audio/Video Distribution Profile Conformance
- Advanced Audio Distribution Profile Interoperability
- Audio/Video Remote Control Profile Interoperability
- Human Device Interface
- Common ISDN Access Profile
- SIM Access Profile



2.3 EUT: List of Devices and Configurations

BD Address	Configura- tion	HW status	SW status	Serial Number	Date of receipt	Date of return
0050c215a032	c02	FIPICD 03	FIS00104	F1034	2002-08-12	2002-08-12

2.4 EUT: Equipment for Profile Interoperability Testing

Short Description	Interoperability Device	Type Designation	Manufac turer	HW Status	SW Status	Serial No.
Mobile Phone	Nokia	6310	Nokia	-	-	-
Mobile Phone	Ericsson	R 520 m	Ericsson	-	-	-

2.5 (Interoperability) Test Setups

Setup No.	Combination of EUT and Interoperability	Remarks
setup01	EUT + Ericsson R520m + Siemens ME 45	
setup02	EUT + Nokia 6310 + Siemens ME 45	



3.2 Summary List

Part K:6 (Protocol Test Results)

TC Identifier		Test Spec.		Description						
Test Voltag	Test Temp	Test System	Setup	IUT Config	Date	Result	Notes	Foot-note		

TP/IAC/BV-01-I K:6: 1.1
 Inc Connect establ - AG
 Normal Normal IOP setup01 c02 2002-08-12 Passed

TP/IAC/BV-02-I K:6: 1.1
 Inc Connect establ - inband ring
 Normal Normal IOP setup02 c02 2002-08-12 Passed

TP/OAC/BV-01-I K:6: 1.1
 Outg Connect establ - HS
 Normal Normal IOP setup02 c02 2002-08-12 Passed

TP/ACR/BV-01-I K:6: 1.1
 Connect release - HS
 Normal Normal IOP setup01 c02 2002-08-12 Passed

TP/ACR/BV-02-I K:6: 1.1
 Connect release - AG
 Normal Normal IOP setup01 c02 2002-08-12 Passed

TP/ACR/BV-03-I K:6: 1.1
 Connect release - ext terminal
 Normal Normal IOP setup01 c02 2002-08-12 Passed

TP/ACT/BV-01-I K:6: 1.1
 Connect transfer - HS initiated
 Normal Normal IOP setup01 c02 2002-08-12 Passed



Part K:6 (Protocol Test Results)

TC Identifier		Test Spec.							
Description									
Test Voltage	Test Temp	Test System	Setup	IUT Config	Date	Result	Notes	Foot-note	

TP/ACT/BV-02-I K:6: 1.1

 Connect transfer – AG initiated
 Normal Normal IOP setup02 c02 2002-08-12 Passed

TP/RAV/BV-01-I K:6: 1.1

 Speaker vol ctrl – remote/local
 Normal Normal IOP setup02 c02 2002-08-12 Passed

TP/RAV/BV-02-I K:6: 1.1

 Speaker vol ctrl – remote
 Normal Normal IOP setup02 c02 2002-08-12 Passed



3.3 Footnotes and Testsystem Environmental Conditions

Footnotes:

- no footnotes present

Test System Environmental Conditions:

Test System IOP

	Date	Temperature	Humidity	AirPressure
	12.08.2002	24 °C	60 %rel	1010 hPa



4. Description of Test Systems

5. List of used Equipment

Rohde & Schwarz TS8960

Testlab Ratingen, BT Lab

Bluetooth RF Conformance Test System

Manufacturer	Rohde & Schwarz	Hardware version(s)	Ident-No.: 1133.1810.02
Serial no.	338864	Software version(s)	Operation System: SuSE Linux 6.0, Kernel 2.0.36 Test System Software: (1.12) (1.14) (1.17) (1.18) (1.19) (1.22) (1.23) (1.24pre) (1.24) 1.24 + Patch + 2.0

Equipment	Type	Serial no.	Manufacturer
Laserprinter	Laserjet 2100	FRFJ023447	HP
Monitor 19"	Flexscan T68	50565029 -ED	EIZO
Power Meter	NRVD	832025/059	Rohde & Schwarz
Power Sensor	NRV-Z1	832279/013	Rohde & Schwarz
	NRV-Z1	832279/015	Rohde & Schwarz
Power Supply	PS-2403D	-	Conrad
	E3632A	MY40003776	Agilent
RF Step Attenuator	RSP	833695/001	Rohde & Schwarz
Rubidium Frequency Normal	MFS	002	Efratom
Signal Analyser	FSIQ26	832695/007	Rohde & Schwarz
Signal Generator	SMIQ03B	832870/017	Rohde & Schwarz
	SMIQ03B	101175	Rohde & Schwarz
	SMP 03	833680/003	Rohde & Schwarz
Signal Switching and Conditioning Unit	SSCU	338826/005	Rohde & Schwarz
Signalling Unit	PTW60 for TS8960	838312/014	Rohde & Schwarz
System Controller	PSM12	829323/008	Rohde & Schwarz



Annex to Bluetooth Test Report

4_Plext_0102_BTT_HS_01a

Headset Profile Interop
for Clarion

Audio-Headset CM HS1

Version: 11.10.2001

7 layers AG

Borsigstrasse 11

D-40880 Ratingen

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Note:

The following test results relate only to the devices specified in this document. This report shall not be reproduced in parts without the written approval of the testing laboratory.

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1. Test Results

1.1. General

Interpretation of test results: The results of the performed tests are described on the following page(s).

"pass" in the summary list in chapter 4.2 of this test report means that the tests according to the following Test Specification

Test Spec Name	Test Spec Ver.
Part K:6: Test Suite Structure (TSS) and Test Purposes (TP) for Headset Profile	22.B.363/1.1

were successfully performed and evidence for the pass verdict is presented in this report.

General deviations from the Interop test specification: None.

1.2. Audio connection establishment

1.2.1. TP/IAC/BV-01-I [Inc Connect Establ - AG]

Test Setup:

Definition	Reference
Setup:	Setup01
Audio Gateway [AG]	Ericsson R 520 m
Headset [HS]	OUT

Test Procedure:

As described in the test specification referenced in section 1.1.

Test Results:

1. The AG and the HS gave an alert
2. After pressing the off/on hook button on HS a bi-directional conversation over the HS was possible

Verdict:

Requirement	Tested in:	Verdict
1) Upon the call/audio connection initiation, the HS or AG might give an alert.	Item 1	passed
HS: 2) If an alert is provided the followed user action on the HS establish the call/audio connection and bi-directional conversation or any other intended audio applications possible.	Item 2	passed
3) If no alert is provided the call/audio connection is established without any further user action and bi-directional conversation or any other intended audio application is possible.	-	-
AG: 4) It might be indicated that a call/audio connection is established.		N/A

Comment: None.

Deviations from Conformance Test Specification:

None.

1.2.2. TP/IAC/BV-02-I [Inc Connect Establ - Inband ring]

Test Setup:

Definition	Reference
Setup:	Setup02
Audio Gateway [AG]	Nokia 6310
Headset [HS]	OUT

Test Procedure:

As described in the test specification referenced in section 1.1.

Test Results:

1. A call connection to the AG was established and the HS gives the provided in-band ring tone to the HS
2. After pressing the off/on hook button on HS a bi-directional conversation over the HS was possible

Verdict:

Requirement	Tested in:	Verdict
HS: 1) Upon the call/audio connection initiation to the AG, the HS gives the provided in-band ring tone as an alert in the earpiece.	Item 1	passed
2) The followed user action on the HS establishes the call/audio connection and bi-directional conversation is possible.	Item 2	passed
AG: 3) It might be indicated that a call/audio connection is established.		N/A

Comment: The Nokia phone was used for this test, because the Ericsson phone doesn't provide an in-band ring tone

Deviations from Conformance Test Specification:

None.

1.2.3. TP/OAC/BV-01-I [Outg Connect establ - HS]

Test Setup:

Definition	Reference
Setup:	Setup02
Audio Gateway [AG]	Nokia 6310
Headset [HS]	OUT

Test Procedure:

As described in the test specification referenced in section 1.1.

Test Results:

1. Established an outgoing call connection from the HS towards the AG via voice dialling.
2. After taking the called phone off hook on HS, a bi-directional communication over the HS was possible.

Verdict:

Requirement	Tested in:	Verdict
HS: 1) The user action on the HS establishes the call/audio connection and bi-directional conversation is possible.	Item 1 and 2	passed
AG: 2) It might be indicated that a call/audio connection is established.		N/A

Comment: The customer decided to use the dialling procedure via the voice-dialling feature of the mobile, therefore we use the Nokia phone for these test case.

Deviations from Conformance Test Specification:

None.

1.3. Audio connection release

1.3.1. TP/ACR/BV-01-I [Connect release - HG]

Test Setup:

Definition	Reference
Setup:	Setup01
Audio Gateway [AG]	Ericsson R 520 m
Headset [HS]	OUT

Test Procedure:

As described in the test specification referenced in section 1.1.

Test Results:

1. A call connection is active.
2. After pressing the off/on hook button of the HS the call was released.
3. After releasing the call the HS returns to standby mode

Verdict:

Requirement	Tested in:	Verdict
1) The user action on the HS releases the call/audio connection	Item 2	passed
HS: 2) The HS returns to Standby mode	Item 3	passed
AG: 3) The AG returns to Standby mode		N/A

Comment: None.

Deviations from Conformance Test Specification:

None.

1.3.2. TP/ACR/BV-02-I [Connect release - AG]

Test Setup:

Definition	Reference
Setup:	Setup01
Audio Gateway [AG]	Ericsson R 520 m
Headset [HS]	OUT

Test Procedure:

As described in the test specification referenced in section 1.1.

Test Results:

1. A call connection is active.
2. After pressing the on hook button of the AG the call was released.
3. After releasing the call the HS returns to standby mode

Verdict:

Requirement	Tested in:	Verdict
1) The user action on the AG releases the call/audio connection	Item 2	passed
HS: 2) The HS returns to Standby mode	Item 3	passed
AG: 3) The AG returns to Standby mode		N/A

Comment: None.

Deviations from Conformance Test Specification:

None.

1.3.3. TP/ACR/BV-03-I [Connect release - ext terminal]

Test Setup:

Definition	Reference
Setup:	Setup01
Audio Gateway [AG]	Ericsson R 520 m
Headset [HS]	OUT

Test Procedure:

As described in the test specification referenced in section 1.1.

Test Results:

1. A call connection is active.
2. After pressing the on hook button of the external terminal the call was released.
3. After releasing the call the HS returns to standby mode

Verdict:

Requirement	Tested in:	Verdict
1) The user action on the external device/terminal releases the call/audio connection	Item 2	passed
HS: 2) The HS returns to Standby mode.	Item 3	passed
AG: 3) The AG returns to Standby mode.		N/A

Comment: None.

Deviations from Conformance Test Specification:

None.

1.4. Audio connection transfer

1.4.1. TP/ACT/BV-01-I [Connect transfer - HS initiated]

Test Setup:

Definition	Reference
Setup:	Setup01
Audio Gateway [AG]	Ericsson R 520 m
Headset [HS]	OUT

Test Procedure:

As described in the test specification referenced in section 1.1.

Test Results:

1. A call connection is active and a bi-directional conversation between external terminal and the AG is possible.
2. Pressing the off/on hook button at the HS transfers the call connections from the AG to the HS.
3. After the transfer a bi-directional conversation was ongoing between HS and external terminal.

Verdict:

Requirement	Tested in:	Verdict
1) The user action on the HS transfers the audio connection from AG to HS.	Item 2	passed
HS: 2) The call/audio connection is ongoing on the HS.	Item 3	passed
AG: 3) The call/audio connection is ongoing on the AG (no voice I/O on AG).		

Comment: None.

Deviations from Conformance Test Specification:

None.

1.4.2. TP/ACT/BV-02-I [Connect transfer - AG initiated]

Test Setup:

Definition	Reference
Setup:	Setup02
Audio Gateway [AG]	Nokia 6310
Headset [HS]	OUT

Test Procedure:

As described in the test specification referenced in section 1.1.

Test Results:

1. A call connection is active and a bi-directional conversation between external terminal and the HS is possible.
2. After executing the transfer function of the AG the transfer of the call connection from HS to the AG was executed.
3. The HS returns to standby mode.
4. After the transfer a bi-directional conversation was ongoing on the AG.

Verdict:

Requirement	Tested in:	Verdict
1) The user action on the AG transfers the audio connection from HS to AG.	Item 2	passed
HS: 2) The HS returns to Standby mode.	Item 3	passed
AG: 3) The call/audio connection is ongoing on the AG.	Item 4	passed

Comment: None.

1.5. Remote audio volume control

1.5.1. TP/RAV/BV-01-I [Speaker vol ctrl - remote / local]

Test Setup:

Definition	Reference
Setup:	Setup02
Audio Gateway [AG]	Nokia 6310
Headset [HS]	OUT

Test Procedure:

This test is covered by TP/RAV/BV-02-.

Test Results:

1. A call connection is active.
2. After pressing the volume+ control button of the AG the volume raised significantly above nominal level.
3. After pressing the volume- control button of the HS the volume decreased significantly below nominal level.
4. After pressing the volume+ control button of the AG the volume increased to nominal level.

Verdict:

Requirement	Tested in:	Verdict
HS: 1) The user actions on the HS and AG result in the respective speaker volume settings.	Item 2 to 4	passed
AG: 2)		

Comment: The Nokia phone was used, because the Ericsson phone was not capable to control the volume on the headset

Deviations from Conformance Test Specification:

None.

1.5.2. TP/RAV/BV-02-I [Speaker vol ctrl - remote]**Test Setup:**

Definition	Reference
Setup:	Setup02
Audio Gateway [AG]	Nokia 6310
Headset [HS]	OUT

Test Procedure:

As described in the test specification referenced in section 1.1.

Test Results:

1. A call connection is active.
2. After pressing the volume+ control button of the AG the speaker volume of the HS increased to the maximum value.
3. After pressing the volume- control button of the AG the speaker volume of the HS decreased to the minimum value.

Verdict:

Requirement	Tested in:	Verdict
HS: 1) The user actions on the AG results in the respective speaker volume settings.	Item 2 to 3	passed

Comment: The Nokia phone was used, because the Ericsson phone was not capable to control the volume on the headset

Deviations from Conformance Test Specification:

None.

Next measurement will be running with the following parameters:

Voltage: Middle
Temperature: Middle
Modulation: BPSK Collected
Measurement: BPSK Collected
Loopback: Loopback
DUT: DUT
PRBS: PRBS 9
Test Mode: Hopping
BI Signal Pattern: Hopping
BI Test Mode: Hopping
Number of Packets: 1
EUT Tx Frequency: Hopping
EUT Rx Frequency: Hopping
BI Signalling Level: -55.000 dbm

Operator Intervention start at 2002-08-17, 19:07:47
Please prepare the EUT for Test Mode Activation
Intervention Type: Please Prepare the EUT for Test Mode Activation
Operator Intervention end at 2002-08-17, 19:07:53

TX FREQ [MHz]	RX FREQ [MHz]	MEAS FREQ [MHz]	MEASUREMENT	LEVEL [dBm]	LIMIT [dBm]	VERDICT
hopping	hopping	2402.000	Average (+ gain)	0.45 <	20.00	PASS
hopping	hopping	2402.000	Peak (+ gain)	0.54 <	23.00	PASS
hopping	hopping	2402.000	Average	0.45 <	4.00	PASS
hopping	hopping	2402.000	Average	0.45 >	-6.00	PASS
hopping	hopping	2441.000	Average (+ gain)	1.71 <	20.00	PASS
hopping	hopping	2441.000	Peak (+ gain)	1.71 <	23.00	PASS
hopping	hopping	2441.000	Average	1.71 <	4.00	PASS
hopping	hopping	2441.000	Average	1.71 >	-6.00	PASS
hopping	hopping	2480.000	Average (+ gain)	2.88 <	20.00	PASS
hopping	hopping	2480.000	Peak (+ gain)	2.97 <	23.00	PASS
hopping	hopping	2480.000	Average	2.88 <	4.00	PASS
hopping	hopping	2480.000	Average	2.88 >	-6.00	PASS

All collected Output Power tests are completed

Duration: 00:00:36
Final Test Case verdict: PASS
Report file closed at: 2002-08-17, 19:08:17

ROHDE & SCHWARZ Certific. Blueooth Test System TS8960 SW Version: b1.24
Program name: Ec_AllPower
Program revision: 1.15
All Power Measurement Test Cases

Test Case started: 2002-08-17, 19:07:41 (TS8960M)
Report File: ./sav/03100a01/03100a01.rm.rsp
Eut File: 03100a01
Operator's account name: ts8960
Global Parameter Settings:

- Wait On Compare : No
- Wait On OUTSIDE : No
- Wait On FAIL : No
- Abort On FAIL : No
- SKIP Manual Interventions : No
- Plots Disabled : No
- Remove Plots after Program Run : No
- Short Modem : No
- Short Mode : No
- Part : 1

Starting program Ec_AllPower

TC Output Power RFC Check

Starting TC Output Power (PRN/GN/D1/C)

Test Specification RP: 0.91

EUT connected for Measurement and Signalling at: SSCU-Port 'MEASUREMENT DUT COND'

Next measurement will be running with the following EUT Parameters:

Manufacturer: Glaxo
Model: F1031
Serial No: 098017121091
Comment: SW Status: FIPICD 03
SN Status: 272 BC09x_hci_lv1_ik_3_56
Serialisation: a01
S/N: F1031

Operator: Iof
Final Testing
Every Parameter Set

Setup mode:
Country: All
Pseudo Whitening: On
EUT Address: 0950C215A02F hex
Tester Address: 098017121091 hex
Active Member Address: 00000007 hex
Access Code from EUT: A8F1C8A2E3112005 hex
Connection Roll Period: 4
Connection Page TO: Time Slots
Test Parameter Setting Delay: 9000 ms
Power Control: Not supported
Gain: 0.000 dbi
Add. Transmission (Receive): 0.000 db
Add. Transmission (Transmit): 0.000 db
Unmod. part before Mod.: 20.000 us
Unmod. part after Mod.: 0.000 us
Payload Length DUT: 2160 bits
Voltage Value 1: 5.500 Volt
Voltage Value 2: 5.500 Volt
Temperature: 23.000 DEG C


```

Power Mode: Not Controlled
Measurement: Conducted
EUT Test Mode: Loopback
BI Signal Pattern: DMI
BI Signal Pattern: Vias 9
BI Signalling Level: Hopping
EUT Tx Frequency: 2121.000 MHz
Measurement Frequency Start: 2121.000 dBm
Measurement Frequency Stop: -55.000 dBm
BI Signalling Level:

```

```

Operator Intervention start at 2002-08-17, 20:42:05
Please prepare the EUT for Test Mode Activation
Operator Intervention end at 2002-08-17, 20:42:10
Operator Intervention start at 2002-08-17, 20:42:10
Operator Intervention end at 2002-08-17, 20:42:10

```

TX [MHz]	RX [MHz]	START [MHz]	STOP [MHz]	PEAK-FREQ [MHz]	LEVEL [dBm]	LIMIT [dBm]	VERDICT
hop	hop	2121.0	2171.0	2158.37475	-29.347		
hop	hop	2171.0	2421.0	2419.89780	1.645		
hop	hop	2421.0	2471.0	2469.08619	3.090		
hop	hop	2471.0	2521.0	2471.00000	-29.707		
hop	hop	2521.0	2571.0	2521.00000	-29.707		
hop	hop	2474.8	2475.3	2474.99950	3.169		
hop	hop	2475.0	2475.0	2474.99950	3.252 <	20.000	PASS

All selected Power Density Tests are completed

```

Final Test Case Verdict: PASS
Report file closed at 2002-08-17, 21:23:13

```

```

=====  

ROND & SCHMARS Certified. Blueooth Test System TS8960 SW Version: bl_24  

Program Name: tc_AllPower Program Revision: 1.15  

=====  

All Power Measurement Test Cases

```

```

Test Case started: 2002-08-17, 20:41:59 (TC8960/01)  

Report File: ..\dat\03100a01\03100a01.mm.rcp  

Operator's account name: t88960  

Global Parameter Settings:
Wait On Compare : No
Wait On OUTSIDE : No
Wait On FAIL : No
Skip Manual Interventions : No
Plots Disabled : No
Remove Plots after Program Run : No
Plots Enabled : No
Skip Hello : No
Force Mode : 2
Part :

```

```

Starting program tc_AllPower
TC Power Density RFC Check
Test Specification RF: 0.91

```

```

Starting TC Power Density (TRM/Ch/02/C)

```

```

EUT connected for Measurement and Signalling at: SSSU-Port 'MEASUREMENT EUT COND'
Next measurement will be running with the following EUT parameters:

```

```

Manufacturer: Clarion
Model No: P1031
Serial No: 0080312201
Comment: IM Status: FIPICD 03
SW Status: 272 BC02X_hci_ivl_ivl_k_3_56
Configuration: a01
S/N: F1031
Operator: lof

```

```

Setup mode: Final Testing
Emergency Handler: Empty Parameter Set
Country: All
Pseudo Whitening: On
Host Connection Request: No
EUT Address: 00000007 hex
Active Member Address: 00000007 hex
Access Code from EUT: AF0FC69A2411205 hex
Access Code from SU: AF0FC69A2411205 hex
Connection Page TO: 9000
Test Parameter Setting Delay: 100 ms
Power Control: Not supported
Gain: 0.000 dBm
Add. Transmission (Receive): 0.000 dB
Add. Transmission (Transmit): 0.000 dB
Longest Packet Type: DMI
Voltage Value 1: 5.500 Volt
Voltage Value 2: 23.000 Volt
Temperature: Middle

```

```

Next measurement will be running with the following parameters:
Voltage: Middle
Temperature: Middle

```

```

Power Mode: Not Controlled
Modem:
Loopback:
Loopback:
DPI:
PMS 9
EUT Tx Frequency: 2480.000 MHz
EUT Rx Frequency: 2482.000 MHz
BI Signalling Level: -55.000 dbm
Number of Sweeps: 50

```

```

Operator intervention start at 2002-08-17, 19:09:47
Please prepare the EUT for Test Mode Activation
Intervention Type 'Please prepare the EUT for Test Mode Activation'
Operator intervention end at 2002-08-17, 19:09:49

```

```

TX-FREQ [MHz]  START [MHz]  STOP [MHz]  FREQ [MHz]  LIMIT  VERDICT
2480.000  2480.000  2482.000  2481.000  2400.000  PASS

```

```

Operator intervention start at 2002-08-17, 19:12:05
Please prepare the EUT for Test Mode Activation
Intervention Type 'Please prepare the EUT for Test Mode Activation'
Operator intervention end at 2002-08-17, 19:12:32

```

```

TX-FREQ [MHz]  START [MHz]  STOP [MHz]  FREQ [MHz]  LIMIT  VERDICT
2482.000  2482.000  2485.000  2483.500  2483.500  PASS

```

```

All selected TX Output Spectrum - Frequency Range tests are completed

```

```

Duration 00:05:09
Final Test Case verdict: PASS
Report file closed at 2002-08-17, 19:14:50

```

```

All Power Measurement Test Cases
-----
startCode 20020817 19:09:41 (TS8940F)
EUT File: 03106401/03106401.dmm.rtp
Operator's account name: ts8940
Global Parameter Settings:
wait On Compare : No
wait On OUTSIDE : No
wait On FAIL : No
Skip Manual Interventions : No
Plots Disabled : No
Remove Plots after Program Run : No
Info Enabled : No
Force Mode : No
Exit : 4

```

```

Starting program tc_AllPower

```

```

TC TX Output Spectrum - Frequency Range NFC Check

```

```

Starting TC TX Output Spectrum - Frequency Range (TRM/CH/01/C)

```

```

Test Specification RF: 0.91

```

```

EUT connected for Measurement and Signalling at: SSCU-port 'MEASUREMENT EUT COND'

```

```

Next measurement will be running with the following EUT parameters:

```

```

Manufacturer: Clarion
Model: Headset
Serial No: 00000000000000000000
SM Status: PIPCD 03
Configuration: a01
S/N: F1031
Operator: Hof

```

```

Setup mode: Final Testing
Test Mode Handle: Every Parameter Set
Connection Request: No
Echoes Whitening: No
Host Connection Request: 0050C215A02F hex
EUT Address: 0000000222 hex
Active Mode: 0000000222 hex
Access Code from EUT: AF0F1C69A241120D5 hex
Access Code from SV: AF0F1C69A241120D5 hex
Connection Poll Period: 9000 ms
Test Parameter Setting Delay: 100 ms
Power Control: Not supported
Gain: 0.000 db
Add. Transmission Att: 0.000 db
Longest Packet Type: DMI
Voltage Value 1: 5.500 Volt
Voltage Value 2: 5.500 Volt
Temperature: 23.000 Deg C

```

```

Next measurement will be running with the following parameters:

```

```

Voltage: Middle
Temperature: Middle

```


Net Controlled Measurement: Loopback
EUT Test Mode: DHI
Signal Packet Type: 20MS 9
Modem Protocol: 2402.000 MHz
EUT Tx Frequency: 2480.000 MHz
D. Signalling Level: -55.000 dbm
Number of Sweeps: 50

Operator intervention start at 2002-08-17, 19:15:52
Please prepare the EUT for Test Mode Activation
Operator intervention end at 2002-08-17, 19:15:52
Operator intervention start at 2002-08-17, 19:15:52
Please prepare the EUT for Test Mode Activation
Operator intervention end at 2002-08-17, 19:15:52

TX-FREQ (MHz)	STOP (MHz)	FREQ (MHz)	LIMIT (MHz)	VERDICT	
2402.0	2480.0	2399.000	2405.000	2401.232 >= 2400.000	PASS
Operator intervention start at 2002-08-17, 19:18:11					
Please prepare the EUT for Test Mode Activation					
Operator intervention end at 2002-08-17, 19:20:16					
2402.0	2480.0	2320.000	2484.000	2403.312 <= 2483.500	PASS

All selected TX Output Spectrum - Frequency Range tests are completed

Duration: 00:05:50
Final Test Case verdict: PASS
Report file closed at 2002-08-17, 19:22:36

Rohde & SCHWARTZ Certific. Bluetooth Test System TSS960 SW Version: bl_24
Program name: tc.AllPower
Program revision: 1.15

All Power Measurement Test Cases

Test Case started: 2002-08-17, 19:15:46 (TSS960R)
Report File: ../dat/01100a01/01100a01.mn.rpt
EUT File: 01100a01
Operator's account name: tss960
Global parameter Settings:

Wait On Compare	:	No
Wait On Timeout	:	No
Wait On FAIL	:	No
Skip Manual Interventions	:	No
Lock & Release after Program Run	:	No
Info Enabled	:	No
Short Mode	:	No
Force Mode	:	No
Port	:	4

Starting program tc.AllPower

TC TX Output Spectrum - Frequency Range RRC Check

Starting TC TX Output Spectrum - Frequency Range (PRM/CR/04/C)

Test Specification RF: 0.91

EUT connected for Measurement and Signalling at: SSCU-Port 'MEASUREMENT BUT COND'

Next measurement will be running with the following EUT parameters:

Manufacturer: Claden
Model: F1031
Serial No: F1031
HW Status: FIPCD 03
SW Status: 272 DC02%_incl_lv1_k3_56
Part Number: 601
SYM: F1031

Operator: hof

Final Testing Every Parameter Set

Country: All

Host Connection Request: No

EUT Address: 0650C215A03F hex

Active Member Address: 088037122031 hex

Access Code from EUT: AF0F1C60A24112005 hex

Connection Poll Period: 4 Time Slots

Connection Page TO: 9000 Time Slots

Power Control: Not supported

Gain: 0.000 dB

Add. Transmission (Receive): 0.000 dB

Add. Transmission (Transmit): 0.000 dB

Voltage Value 1: 5.500 Volt

Voltage Value 2: 5.500 Volt

Temperature: 23.000 Deg C

Next measurement will be running with the following parameters:

Voltage: Middle
Temperature: Middle

 SOURCE : SCHWAB, C. J. B1

 Program name: tc_AllPower
 Program revision: 1.15

 All Power Measurement Test Cases

Test Case started: 2002-08-17, 19:01:47 (759600)
 EUT File: 7031000170310001.mm.rcp
 Operator's account name: ts8960

 Global Parameter Settings:

Wait On Compare : No
 Wait On OUTSIDE : No
 Wait On FAIL : No
 Abort On FAIL : No
 Interventions : No
 Plots Disabled : No
 Remove Plots after Program Run : No
 Info Enabled : No
 Abort Mode : No
 Abort Mode : No
 Port : 5

Starting program tc_AllPower

 TC TX Output Spectrum - 20 db Bandwidth FCC Check

Starting TC TX Output Spectrum - 20 db Bandwidth (TRM/CN/05/C)

 Test Specification RF: 0.91

EUT connected for Measurement and Signalling at: SSCU-Port 'MEASUREMENT DUT COND'

 Next measurement will be running with the following EUT parameters:

Manufacturer: Clorion
 Model: P103
 Serial No:
 Comment: SM Status: FIPICD 03
 SM Status: 272 BC02X_het_lv1_k_3_56
 Configuration: a01
 S/N: P103

 Operator: hof
 Final Testing
 Key Parameter Set
 Country: All
 Pseudo Whitening: On
 Host Connection Request: No
 Target Address: 08037122091 hex
 Active Member Address: 00000007 hex
 Access Code from EUT: AF9FC69AE2411205 hex
 Access Code from SUT: AF9FC69AE2411205 hex
 Connection Page 70: 9000 Time S108
 Test Parameter Setting Delay: 100 ms
 Power Control: Not supported
 Pds - Transmission (Tx): 0.000 dB
 Pds - Transmission (Receive): 0.000 dB
 Longest Packet Type: DM1
 Voltage Value 1: 5.500 Volt
 Voltage Value 2: 5.500 Volt
 Temperature: 23.000 Deg C

 Next measurement will be running with the following parameters:
 Voltage: Middle
 Temperature: Middle
 Power Mode: Not Controlled

Measurement: Conducted
 Test Mode: On
 Feedback: On
 BI Signal Pattern: PRBS 9
 Whitening: Yes
 EUT Tx Frequency: 2441.000 MHz
 EUT Tx Power: 245.000 dBm
 BI Signalling Level: 10
 Number of Sweeps: 10

Operator intervention start at 2002-08-17, 19:40:53
 Operator intervention end at 2002-08-17, 19:40:55
 Operator intervention Type: Please prepare the EUT for Test Mode Activation

MHz	Start	Stop	Low	High	Power	Limit	Verdict
2441.2402	2440.0	2442.0	2440.572	2441.392	0.820	<= 1.000	PASS

All selected TX Output Spectrum - 20 db Bandwidth tests are completed

 Report file closed at 2002-08-17, 19:41:39

2477.0	2402.0	2471.0	-55.963	<	-40.000	(0)	PASS
2477.0	2402.0	2472.0	-50.808	<	-40.000	(0)	PASS
2477.0	2402.0	2473.0	-45.653	<	-40.000	(0)	PASS
2477.0	2402.0	2474.0	-40.498	<	-40.000	(0)	PASS
2477.0	2402.0	2475.0	-35.343	<	-40.000	(0)	PASS
2477.0	2402.0	2476.0	-30.188	<	-40.000	(0)	PASS
2477.0	2402.0	2477.0	-25.033	<	-40.000	(0)	PASS
2477.0	2402.0	2478.0	-19.878	<	-40.000	(0)	PASS
2477.0	2402.0	2479.0	-14.723	<	-40.000	(0)	PASS
2477.0	2402.0	2480.0	-9.568	<	-40.000	(0)	PASS

0 channels of measured 76 channels are CURSING

All selected TX Output Spectrum - Adjacent Channel Power Tests are completed

Final Test Case verdict: PASS

Report file closed at 2002-08-17, 20:02:44

Measurement:
 BI Signal Packet Type: PAS 9
 Whitening: Yes
 EUT TX Frequency: 2405.000 MHz
 Measurement Frequency Start: 2402.000 MHz
 Measurement Frequency Stop: 2480.000 MHz
 BI Signalling Level: -55.000 dbm

Conducted
 BI Signal Packet Type: PAS 9
 Whitening: Yes
 EUT TX Frequency: 2405.000 MHz
 Measurement Frequency Start: 2402.000 MHz
 Measurement Frequency Stop: 2480.000 MHz
 BI Signalling Level: -55.000 dbm

Operator Intervention start at 2002-08-17 20:03:54
 Please prepare the EUT for Test Mode Activation
 Operator Intervention Type : Please prepare the EUT for Test Mode Activation
 Operator Intervention end at 2002-08-17 20:03:56

Operator Intervention start at 2002-08-17 20:03:54
 Please prepare the EUT for Test Mode Activation
 Operator Intervention Type : Please prepare the EUT for Test Mode Activation
 Operator Intervention end at 2002-08-17 20:03:56

TX-FREQ	RX-FREQ	MEAS-FREQ	LEVEL	LIMIT	UNIT	(OBT)	VERDICT
2405.0	2480.0	2402.0	-47.722	<=	-40.000	(0)	PASS
2405.0	2480.0	2402.0	-48.436	<=	-20.000	(0)	PASS
2405.0	2480.0	2402.0	-49.622	<=	-40.000	(0)	PASS
2405.0	2480.0	2402.0	-44.450	<=	-40.000	(0)	PASS
2405.0	2480.0	2410.0	-50.287	<=	-40.000	(0)	PASS
2405.0	2480.0	2410.0	-57.806	<=	-40.000	(0)	PASS
2405.0	2480.0	2413.0	-57.896	<=	-40.000	(0)	PASS
2405.0	2480.0	2414.0	-58.235	<=	-40.000	(0)	PASS
2405.0	2480.0	2415.0	-58.412	<=	-40.000	(0)	PASS
2405.0	2480.0	2417.0	-58.657	<=	-40.000	(0)	PASS
2405.0	2480.0	2418.0	-58.304	<=	-40.000	(0)	PASS
2405.0	2480.0	2419.0	-58.784	<=	-40.000	(0)	PASS
2405.0	2480.0	2420.0	-58.882	<=	-40.000	(0)	PASS
2405.0	2480.0	2421.0	-55.892	<=	-40.000	(0)	PASS
2405.0	2480.0	2422.0	-59.011	<=	-40.000	(0)	PASS
2405.0	2480.0	2423.0	-59.533	<=	-40.000	(0)	PASS
2405.0	2480.0	2424.0	-58.865	<=	-40.000	(0)	PASS
2405.0	2480.0	2425.0	-59.184	<=	-40.000	(0)	PASS
2405.0	2480.0	2427.0	-59.050	<=	-40.000	(0)	PASS
2405.0	2480.0	2428.0	-59.323	<=	-40.000	(0)	PASS
2405.0	2480.0	2430.0	-59.101	<=	-40.000	(0)	PASS
2405.0	2480.0	2431.0	-59.382	<=	-40.000	(0)	PASS
2405.0	2480.0	2432.0	-59.522	<=	-40.000	(0)	PASS
2405.0	2480.0	2433.0	-59.302	<=	-40.000	(0)	PASS
2405.0	2480.0	2435.0	-59.606	<=	-40.000	(0)	PASS
2405.0	2480.0	2436.0	-59.600	<=	-40.000	(0)	PASS
2405.0	2480.0	2437.0	-55.437	<=	-40.000	(0)	PASS
2405.0	2480.0	2439.0	-58.684	<=	-40.000	(0)	PASS
2405.0	2480.0	2440.0	-55.598	<=	-40.000	(0)	PASS
2405.0	2480.0	2441.0	-59.518	<=	-40.000	(0)	PASS
2405.0	2480.0	2442.0	-59.528	<=	-40.000	(0)	PASS
2405.0	2480.0	2443.0	-60.066	<=	-40.000	(0)	PASS
2405.0	2480.0	2444.0	-60.045	<=	-40.000	(0)	PASS
2405.0	2480.0	2445.0	-59.987	<=	-40.000	(0)	PASS
2405.0	2480.0	2446.0	-60.005	<=	-40.000	(0)	PASS
2405.0	2480.0	2449.0	-59.981	<=	-40.000	(0)	PASS
2405.0	2480.0	2450.0	-59.795	<=	-40.000	(0)	PASS
2405.0	2480.0	2451.0	-59.971	<=	-40.000	(0)	PASS
2405.0	2480.0	2453.0	-59.625	<=	-40.000	(0)	PASS
2405.0	2480.0	2454.0	-60.043	<=	-40.000	(0)	PASS
2405.0	2480.0	2455.0	-60.019	<=	-40.000	(0)	PASS
2405.0	2480.0	2459.0	-59.984	<=	-40.000	(0)	PASS
2405.0	2480.0	2458.0	-59.995	<=	-40.000	(0)	PASS
2405.0	2480.0	2459.0	-60.006	<=	-40.000	(0)	PASS
2405.0	2480.0	2460.0	-60.025	<=	-40.000	(0)	PASS
2405.0	2480.0	2462.0	-60.035	<=	-40.000	(0)	PASS
2405.0	2480.0	2463.0	-60.234	<=	-40.000	(0)	PASS
2405.0	2480.0	2464.0	-60.165	<=	-40.000	(0)	PASS
2405.0	2480.0	2465.0	-60.184	<=	-40.000	(0)	PASS
2405.0	2480.0	2466.0	-60.158	<=	-40.000	(0)	PASS
2405.0	2480.0	2467.0	-60.131	<=	-40.000	(0)	PASS
2405.0	2480.0	2468.0	-59.491	<=	-40.000	(0)	PASS
2405.0	2480.0	2470.0	-60.082	<=	-40.000	(0)	PASS
2405.0	2480.0	2472.0	-60.191	<=	-40.000	(0)	PASS
2405.0	2480.0	2473.0	-60.104	<=	-40.000	(0)	PASS
2405.0	2480.0	2474.0	-60.159	<=	-40.000	(0)	PASS
2405.0	2480.0	2476.0	-60.221	<=	-40.000	(0)	PASS
2405.0	2480.0	2477.0	-60.221	<=	-40.000	(0)	PASS
2405.0	2480.0	2478.0	-57.319	<=	-40.000	(0)	PASS

Starting program tc-AllPower
 TC TX Output Spectrum - Adjacent Channel Power RFC Check
 Test Specification RF: 0.91
 EUT connected for Measurement and Signalling at: SSKU-Test MEASUREMENT DUT COND
 Next measurement will be running with the following EUT parameters:
 Manufacturer: Clarion
 Model: P8000
 IMN No: 00803122031
 HW Status: FUDCD 03
 SW Status: 272 MCCX_Mcl_v1.Lk.1.56
 Configuration: d01
 S/N: F1311
 Operator: hof
 Final Testing
 Pseudo Whitening: All
 Host Connection Request: No
 Active Member Address: AF0FCS9AE24112015 hex
 Access Code from EUT: AF0FCS9AE24112015 hex
 Connection Period: 9000 ms
 Test Parameter Setting Delay: 100 ms
 Power Control: Not supported
 Add. Transmission (Receiver): 0.000 dB
 Longest Packet Type: 981 dB
 Voltage Value 1: 5.500 Volt
 Voltage Value 2: 5.500 Volt
 Temperature: 23.000 Deg C
 Next measurement will be running with the following parameters:
 Voltage: Middle
 Temperature: Middle
 Power Meter: Not Controlled

Wait On Compare : No
 Wait On OUTSIDE : No
 Abort On FAIL : No
 Remove Interventions : No
 Placa Disabled : No
 Remove Plots after Program Run : No
 Info Enabled : No
 Short Mode : No
 Wait Mode : No
 Exit : G

```
2405.0 2480.0 2479.0 -57.838 <= -40.000 { 0} PASS
2405.0 2480.0 2480.0 -50.531 <= -40.000 { 0} PASS
#####
0 channels of measured 76 channels are OUTSIDE

All selected TX Output Spectrum - Adjacent Channel Power tests are completed
#####
# Duration 00:18:07
# Test Result: PASS
# Report File closed at 2002/08-17, 20:21:55
#####
```



```

2441.0 2402.0 2479.0 -58.938 <= -40.000 ( 0) PASS
2441.0 2402.0 2480.0 -60.171 <= -40.000 ( 0) PASS

```

0 channels of measured 76 channels are OUTSIDE

All selected TX Output Spectrum - Adjacent Channel Power tests are completed

```

#####
# Duration: 00:18:05
# Report File: c:\msdcs\l...
# Report File: c:\msdcs\l...
#####

```

```

Power Mode: Not Controlled
Regulation: ETS 300 328
EUT Test Mode: Loopback
BI Signal Pattern: DB1
PRBS 9
EUT Tx Frequency: 2402.000 MHz
EUT Rx Frequency: 2480.000 MHz
Measurement Frequency Start: 30.000 MHz
Measurement Frequency Stop: -250.000 MHz
Delta Detection Threshold: -6.000 dB
Number of Sweeps: 54
Operator Intervention Start at 2002-08-17, 22:39:18
Operator Intervention End at 2002-08-17, 22:39:21
Starting 'Out-of-Band Spurious Emissions' measurement method.
FREQUENCY SPURIOUS LEVEL LIMIT VERDICT
(MHz) (dBm)
-----
0 out-of-band spurious emissions found.

```

```

All selected ETS Out-of-Band Spurious Emissions (conducted) tests are completed
Duration: 00:06:11
Final Test Case Verdict: PASS
Report File Closed at: 2002-08-17, 22:45:25

```

```

Out-of-Band Spurious Emissions Testcase
-----
Test Case started: 2002-08-17, 22:39:12 (758960R)
Report File: /home/tes960/projects/tes960/aw/ALE/LC/dut/03100a01/03100a01_mm.rep
EUT File: 03100a01_name.tes960
Program name: tc_SpuriousEmissions
-----
Global Parameter Settings:
Wait on Compare : No
Wait on GUNSIDE : No
Wait on FAIL : No
Abort on FAIL : No
Skip Manual Interventions : No
Remove Pilots After Program Run : No
Info Enabled : No
Short Mode : No
Port : 1

```

```

Starting program tc_SpuriousEmissions
-----
TC ETS Out-of-Band Spurious Emissions (conducted) RFC Check
-----
Test Specification RP: 0.9)
TS Errata Request: RFC TC CA 01 ERRATA REQUEST
EUT connected for Measurement and Signalling at: SSCU-Port 'MEASUREMENT DUT COMP'
-----
Next measurement will be running with the following EUT parameters:
-----
Manufacturer: Clatlon
Model: Model
Country: All
Pseudo Whitening: No
Host Connection Request: No
EUT Address: 000015402 hex
EUT ID: 0000712091 hex
Active Number Address: 00000007 hex
Access Code from EUT: APOF1C69A241120D5 hex
Access Code from SDI: APOF1C69A241120D5 hex
Connection Port: 9000
Connection Port To: 9000
Test Parameter Setting delay: 100 ms
Power Control: Not supported
Gain: 0.000 dbi
Add. Transmission (Recursive): 0.000 db
Add. Transmission (Transmit): 0.000 db
Voltage Value 1: 5.500 Volt
Voltage Value 2: 5.500 Volt
Temperature: 23.000 Deg C
-----
Next measurement will be running with the following parameters:
-----
Voltage: Middle
Temperature: Middle

```

```

Starting program tc_SpuriousEmissions
-----
TC ETS Out-of-Band Spurious Emissions (conducted) RFC Check
-----
Test Specification RP: 0.9)
TS Errata Request: RFC TC CA 01 ERRATA REQUEST
EUT connected for Measurement and Signalling at: SSCU-Port 'MEASUREMENT DUT COMP'
-----
Next measurement will be running with the following EUT parameters:
-----
Manufacturer: Clatlon
Model: Model
Country: All
Pseudo Whitening: No
Host Connection Request: No
EUT Address: 000015402 hex
EUT ID: 0000712091 hex
Active Number Address: 00000007 hex
Access Code from EUT: APOF1C69A241120D5 hex
Access Code from SDI: APOF1C69A241120D5 hex
Connection Port: 9000
Connection Port To: 9000
Test Parameter Setting delay: 100 ms
Power Control: Not supported
Gain: 0.000 dbi
Add. Transmission (Recursive): 0.000 db
Add. Transmission (Transmit): 0.000 db
Voltage Value 1: 5.500 Volt
Voltage Value 2: 5.500 Volt
Temperature: 23.000 Deg C
-----
Next measurement will be running with the following parameters:
-----
Voltage: Middle
Temperature: Middle

```

```

Starting program tc_SpuriousEmissions
-----
TC ETS Out-of-Band Spurious Emissions (conducted) RFC Check
-----
Test Specification RP: 0.9)
TS Errata Request: RFC TC CA 01 ERRATA REQUEST
EUT connected for Measurement and Signalling at: SSCU-Port 'MEASUREMENT DUT COMP'
-----
Next measurement will be running with the following EUT parameters:
-----
Manufacturer: Clatlon
Model: Model
Country: All
Pseudo Whitening: No
Host Connection Request: No
EUT Address: 000015402 hex
EUT ID: 0000712091 hex
Active Number Address: 00000007 hex
Access Code from EUT: APOF1C69A241120D5 hex
Access Code from SDI: APOF1C69A241120D5 hex
Connection Port: 9000
Connection Port To: 9000
Test Parameter Setting delay: 100 ms
Power Control: Not supported
Gain: 0.000 dbi
Add. Transmission (Recursive): 0.000 db
Add. Transmission (Transmit): 0.000 db
Voltage Value 1: 5.500 Volt
Voltage Value 2: 5.500 Volt
Temperature: 23.000 Deg C
-----
Next measurement will be running with the following parameters:
-----
Voltage: Middle
Temperature: Middle

```

```

Starting program tc_SpuriousEmissions
-----
TC ETS Out-of-Band Spurious Emissions (conducted) RFC Check
-----
Test Specification RP: 0.9)
TS Errata Request: RFC TC CA 01 ERRATA REQUEST
EUT connected for Measurement and Signalling at: SSCU-Port 'MEASUREMENT DUT COMP'
-----
Next measurement will be running with the following EUT parameters:
-----
Manufacturer: Clatlon
Model: Model
Country: All
Pseudo Whitening: No
Host Connection Request: No
EUT Address: 000015402 hex
EUT ID: 0000712091 hex
Active Number Address: 00000007 hex
Access Code from EUT: APOF1C69A241120D5 hex
Access Code from SDI: APOF1C69A241120D5 hex
Connection Port: 9000
Connection Port To: 9000
Test Parameter Setting delay: 100 ms
Power Control: Not supported
Gain: 0.000 dbi
Add. Transmission (Recursive): 0.000 db
Add. Transmission (Transmit): 0.000 db
Voltage Value 1: 5.500 Volt
Voltage Value 2: 5.500 Volt
Temperature: 23.000 Deg C
-----
Next measurement will be running with the following parameters:
-----
Voltage: Middle
Temperature: Middle

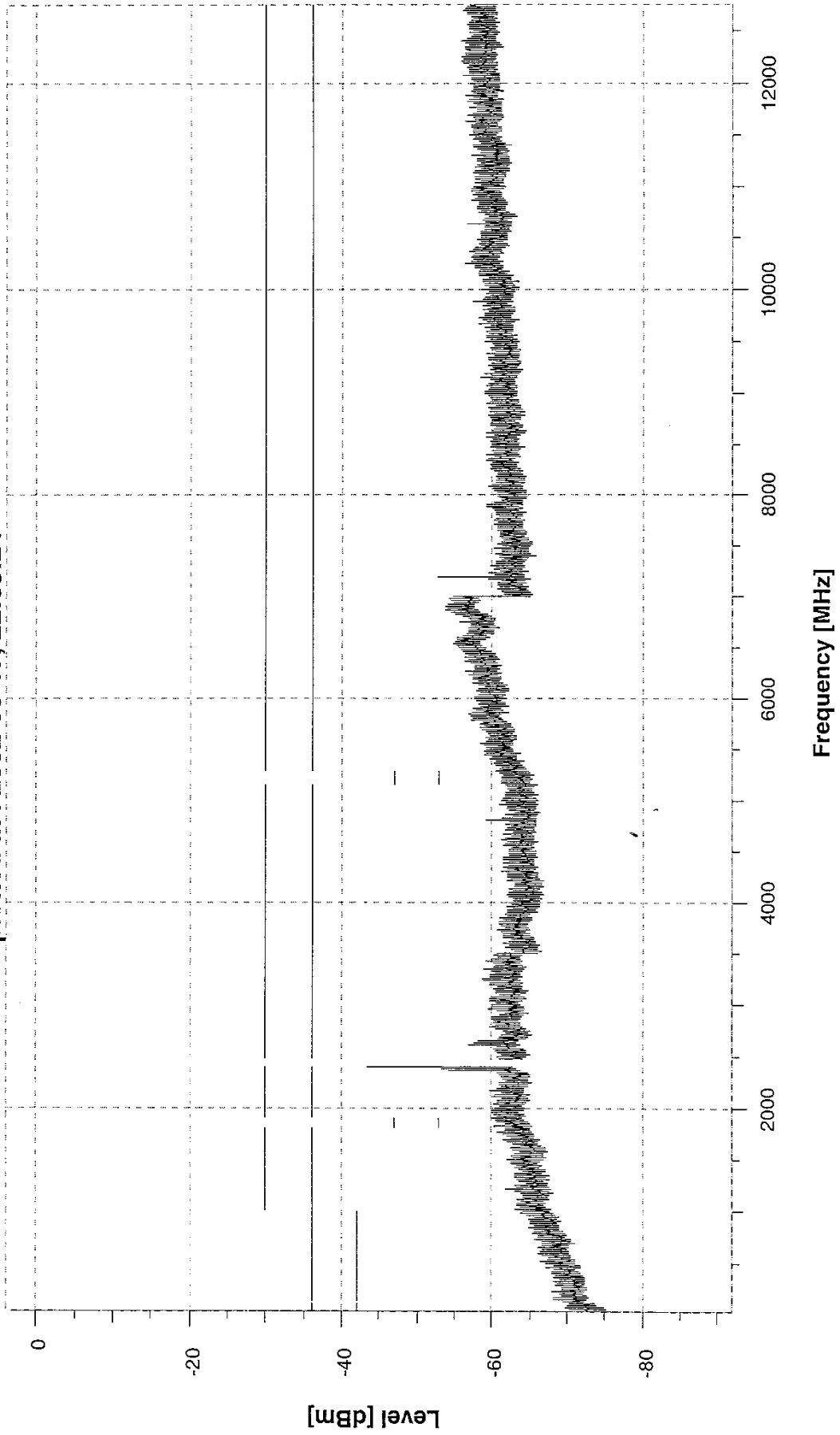
```

```

Starting program tc_SpuriousEmissions
-----
TC ETS Out-of-Band Spurious Emissions (conducted) RFC Check
-----
Test Specification RP: 0.9)
TS Errata Request: RFC TC CA 01 ERRATA REQUEST
EUT connected for Measurement and Signalling at: SSCU-Port 'MEASUREMENT DUT COMP'
-----
Next measurement will be running with the following EUT parameters:
-----
Manufacturer: Clatlon
Model: Model
Country: All
Pseudo Whitening: No
Host Connection Request: No
EUT Address: 000015402 hex
EUT ID: 0000712091 hex
Active Number Address: 00000007 hex
Access Code from EUT: APOF1C69A241120D5 hex
Access Code from SDI: APOF1C69A241120D5 hex
Connection Port: 9000
Connection Port To: 9000
Test Parameter Setting delay: 100 ms
Power Control: Not supported
Gain: 0.000 dbi
Add. Transmission (Recursive): 0.000 db
Add. Transmission (Transmit): 0.000 db
Voltage Value 1: 5.500 Volt
Voltage Value 2: 5.500 Volt
Temperature: 23.000 Deg C
-----
Next measurement will be running with the following parameters:
-----
Voltage: Middle
Temperature: Middle

```

-Measured EUT: 03100a01 - Out-of-Band Spurious Emissions according to ETS: conducted,
maximum power, tx-frequency: 2402.0, rx-frequency: 2480.0
plotted at : 2002-08-17, 22:39:24



```

*****
# ROHDE & SCHWARZ Certified Bluetooth Test System TS8960 SW Version: bl_24
# Report File: /home/lab960/project/168960/sw/ALE/Lc/dat/03100a01/03100a01.mm.rpt
# Program Name: tc_SpuriousEmissions Program Revision: 1.9
*****
Out-of-Band Spurious Emissions Testcase
*****
Test Case started: 2002-08-17, 22:00:15 (TS8960R)
Report File: /home/lab960/project/168960/sw/ALE/Lc/dat/03100a01/03100a01.mm.rpt
Out File: 03100a01_name_168960
*****
Global Parameter Settings:
Wait On Complete : No
Wait On CPU idle : No
Wait On FAIL : No
Skip Manual Interventions : No
Remove Plates after Program Run : No
Info Enabled : No
Force Mode : No
Port : 1
*****
Starting program tc_SpuriousEmissions
*****
TC ETS Out-of-Band Spurious Emissions (conducted) NPC Check
*****

```

```

*****
Test Specification Ref: 0.91
*****
TS Errata Request: RF TRC Ch 01 ERRATA REQUEST
*****
RUT connected for Measurement and Signalling at: SSCU-Port 'MEASUREMENT DUT COND'
*****
Next measurement will be running with the following EUT parameters:
*****
Manufacturer: Clackson
Model: FI031
HW Status: FI0CD 0J
SW Status: 272 BCD0X_hcl_lvl_1k_3_56
Com. Revision: d01
S/N: FI031
Operator: hof
*****
Setup mode: Final Testing
Test Mode Handle: Every Parameter Set
Country: All
Host Identification: All
Host Connection Request: On
EUT Address: 0056C715A03F hex
Active Number Address: 008037122031 hex
Access Code from SW: 00000007 hex 132005 hex
Connection Poll Period: AF0F1C69A824112005 hex
Connection Page TO: 4 Time Slots
Power Control: 9000 Time Slots
Gain: 0.000 dB
Add. Transmission (Receive): 0.000 dB
Host Transmission (Transmit): 0.000 dB
Voltage Value 1: 5.500 Volt
Temperature: 23.000 Deg C
*****
Next measurement will be running with the following parameters:
Voltage: Middle
Temperature: Middle
*****

```

```

*****
Next Controlled Measurement:
ETS 300 J28
Loopback
BI Signal Pattern: No
Whitening: No
SUT Tx Frequency: 2480.000 MHz
SUT Rx Frequency: 2402.000 MHz
Measurement Frequency Start: 12750.000 MHz
BI Signalling Level: -55.000 dBm
Delta Detection Threshold: -6.000 dB
Number of Sweeps: 54
*****
Operator intervention start at 2002-08-17, 22:00:21
Operator intervention end at 2002-08-17, 22:00:22
*****
Starting 'Out-of-Band Spurious Emissions' measurement method
*****
FREQUENCY SPURIOUS LEVEL LIMIT VERDICT
[MHz] [dBm] [dBm] [dBm]
*****
0 out-of-band spurious emissions found.
*****
All selected ETS Out-of-Band Spurious Emissions (conducted) tests are completed
*****
# Duration 00:06:16
# Final Test Case verdict: PASS
# Report file closed at 2002-08-17, 22:06:30
*****

```

```

*****
Starting program tc_SpuriousEmissions
*****
TC ETS Out-of-Band Spurious Emissions (conducted) NPC Check
*****

```

```

*****
Test Specification Ref: 0.91
*****
TS Errata Request: RF TRC Ch 01 ERRATA REQUEST
*****
RUT connected for Measurement and Signalling at: SSCU-Port 'MEASUREMENT DUT COND'
*****
Next measurement will be running with the following EUT parameters:
*****
Manufacturer: Clackson
Model: FI031
HW Status: FI0CD 0J
SW Status: 272 BCD0X_hcl_lvl_1k_3_56
Com. Revision: d01
S/N: FI031
Operator: hof
*****
Setup mode: Final Testing
Test Mode Handle: Every Parameter Set
Country: All
Host Identification: All
Host Connection Request: On
EUT Address: 0056C715A03F hex
Active Number Address: 008037122031 hex
Access Code from SW: 00000007 hex 132005 hex
Connection Poll Period: AF0F1C69A824112005 hex
Connection Page TO: 4 Time Slots
Power Control: 9000 Time Slots
Gain: 0.000 dB
Add. Transmission (Receive): 0.000 dB
Host Transmission (Transmit): 0.000 dB
Voltage Value 1: 5.500 Volt
Temperature: 23.000 Deg C
*****
Next measurement will be running with the following parameters:
Voltage: Middle
Temperature: Middle
*****

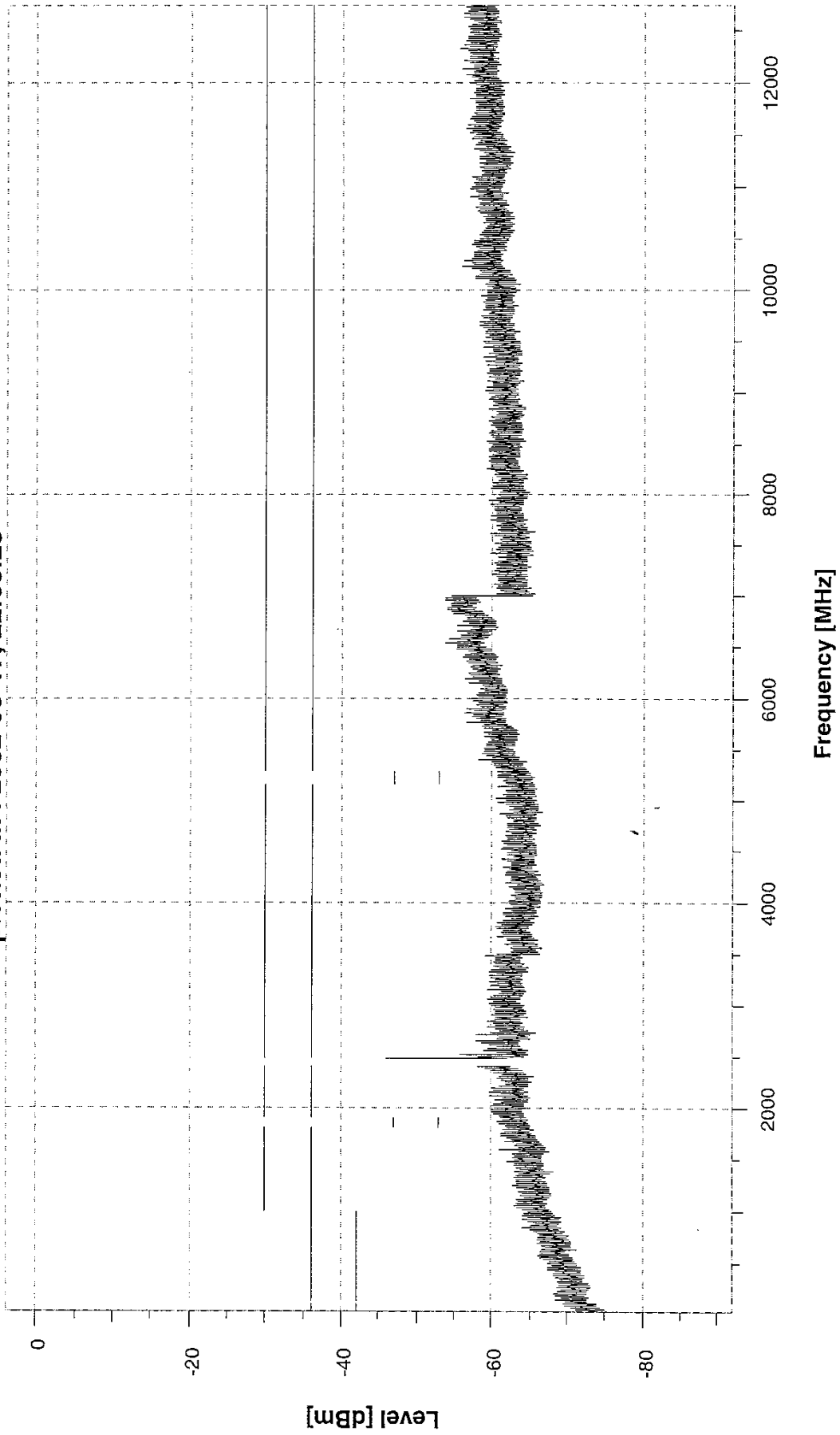
```

```

*****
Next Controlled Measurement:
ETS 300 J28
Loopback
BI Signal Pattern: No
Whitening: No
SUT Tx Frequency: 2480.000 MHz
SUT Rx Frequency: 2402.000 MHz
Measurement Frequency Start: 12750.000 MHz
BI Signalling Level: -55.000 dBm
Delta Detection Threshold: -6.000 dB
Number of Sweeps: 54
*****
Operator intervention start at 2002-08-17, 22:00:21
Operator intervention end at 2002-08-17, 22:00:22
*****
Starting 'Out-of-Band Spurious Emissions' measurement method
*****
FREQUENCY SPURIOUS LEVEL LIMIT VERDICT
[MHz] [dBm] [dBm] [dBm]
*****
0 out-of-band spurious emissions found.
*****
All selected ETS Out-of-Band Spurious Emissions (conducted) tests are completed
*****
# Duration 00:06:16
# Final Test Case verdict: PASS
# Report file closed at 2002-08-17, 22:06:30
*****

```

-Measured EUT: 03100a01 - Out-of-Band Spurious Emissions according to ETS: conducted,
maximum power, tx-frequency: 2480.0, rx-frequency: 2402.0
plotted at : 2002-08-17, 22:00:25



```

Power Mode: Standby
Measurement: Conducted
Loopback: Loopback 328
EUT Test Mode: Loopback
DI Signal Packet Type: DH1
PRBS 9
Modulation: W
Measurement Frequency Start: 30.000 MHz
Measurement Frequency Stop: 12750.000 MHz
DI Signalling Level: -55.000 dBm
Delta Detection Threshold: -6.000 dB
Number of Sweeps: 1

```

```

Starting 'Out-of-Band Spurious Emissions' measurement method.
=====
FREQUENCY [MHz]          Power [dBm]          VERDICT
-----
0 out-of-band spurious emissions found.

```

```

All selected ETS Out-of-Band Spurious Emissions (conducted) tests are completed
=====
# Duration 00:06:48
# Final Test Case verdict: PASS
# Report file cloned at 2002-08-17, 22:54:37
=====

```

```

*****
# ROMP & SCARAB Config: Disabled (RSC00)
# Program name: tc_SpuriousEmissions program revision: 1.9
# Out-of-Band Spurious Emissions Testcase
#
# Test Case started: 2002-08-17, 22:47:49 (TS99560A)
# EUT File: 01100A01
# Operator's account name: t49960
# Global Parameter Settings:
#
# Wait On Complete : No
# Wait On OUS2IHE : No
# Wait On FAIL : No
# Wait On PASS : No
# Stop Manual Interventions : No
# Plots Disabled : No
# Remove Plots after Program Run : No
# Info Enabled : No
# Force Mode : No
# Part : 1

```

```

Starting program tc_SpuriousEmissions
=====
TC ETS Out-of-Band Spurious Emissions (conducted) RFC Check

```

```

Test Specification RF: 0.91
TS Error Request: RF TRC CA 01 ERRATA REQUEST
EUT connected for Measurement and Signalling at: SSCU-Port 'MEASUREMENT EUT COND'
=====

```

```

Next measurement will be running with the following EUT parameters:
Manufacturer: Clarion
Model: Headset
Serial No: F1031
HW Status: F1PCH 03
SW Status: 272 8C02X_mcl_lvl_1k_3_56
Part Num: 001
S/N: F1031
Operator: Hof

```

```

Setup mode: Final Testing
Test Mode Handle: Every Parameter Set
Country: All
Pseudo Whitening: On
EUT Address: 0050c21502f hex
Tester Address: 008037122091 hex
Active Number Address: 00000007 hex
Access Code from SW: 00000000 hex
Access Code from HW: 00000000 hex
Connection Poll Period: 4 Time Slots
Connection Page 10: 9000 Time Slots
Test Parameter Setting Delay: 100 ms
Test Control: 0.000 suppressed dBm
Gain: 0.000 dB
Add. Transmission (Receive): 0.000 dB
Add. Transmission (Transmit): 0.000 dB
Voltage Value 1: 5.500 Volt
Voltage Value 2: 5.500 Volt
Temperature: 23.000 Deg C

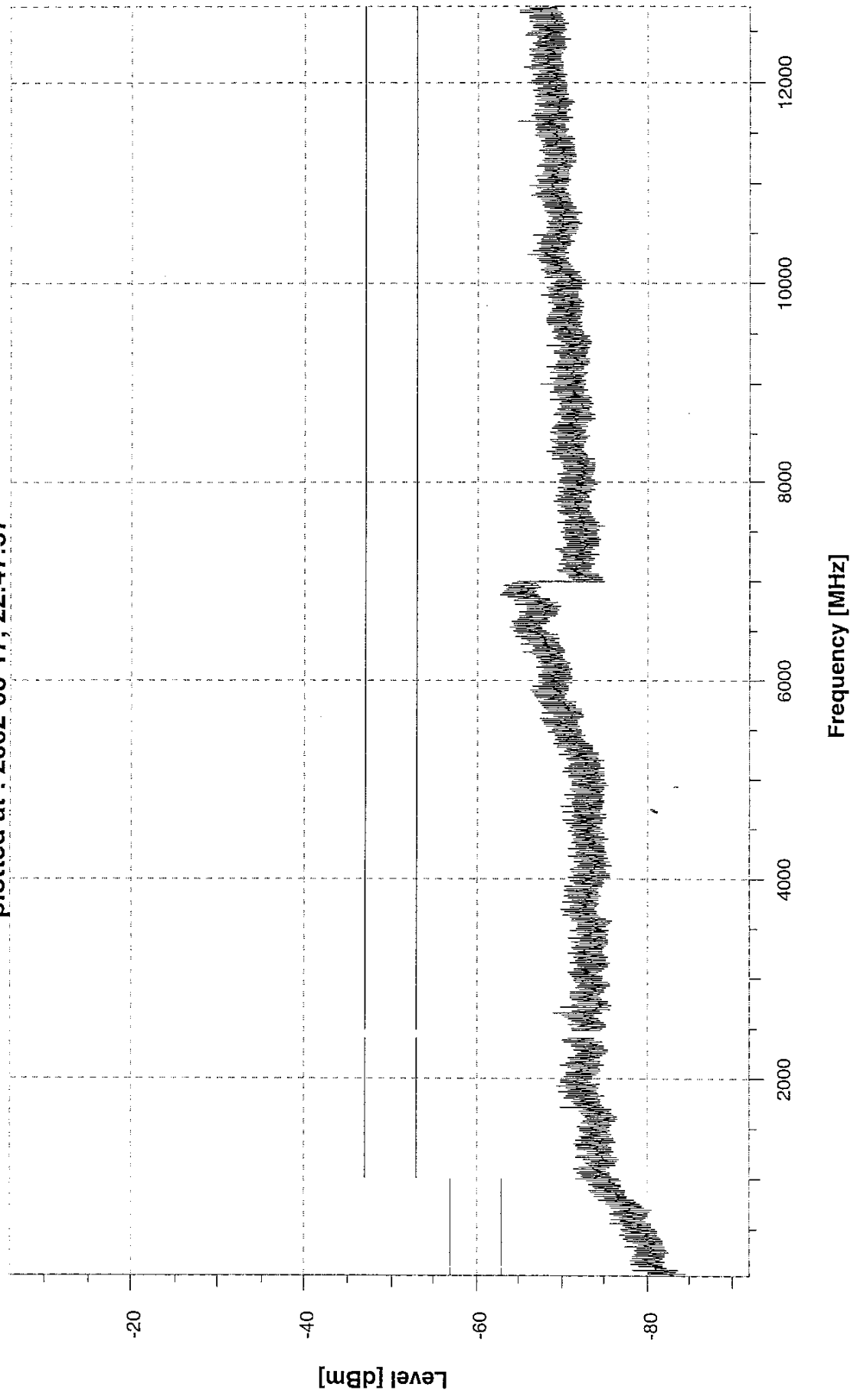
```

```

Next measurement will be running with the following parameters:
Voltage: Middle
Temperature: Middle

```

-Measured EUT: 03100a01 - Out-of-Band Spurious Emissions according to ETS: conducted, standby
plotted at : 2002-08-17, 22:47:57

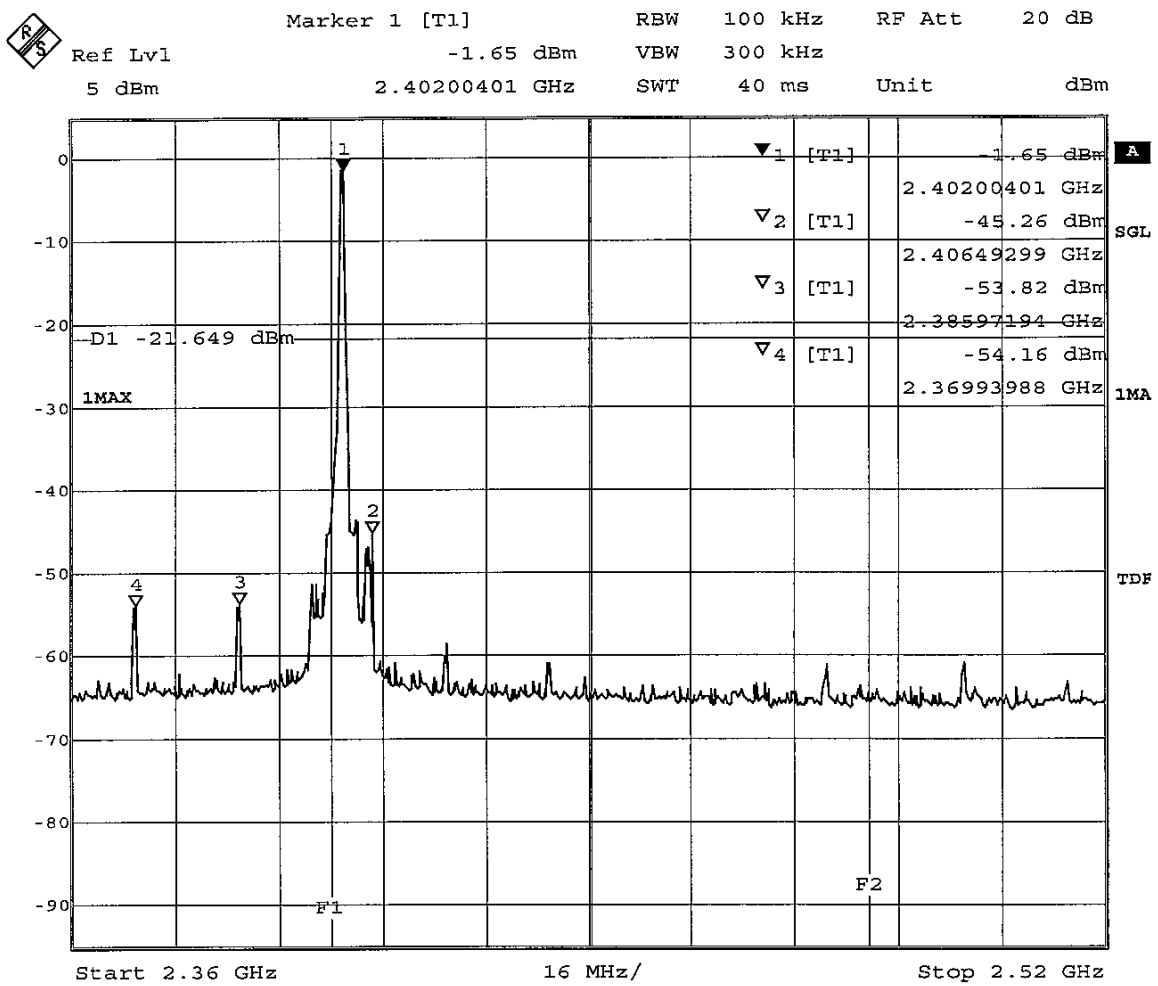




1 Normal Test Conditions (NormTempNormVolt)

1.1 Band Edge Compliance (NTNV)

1.1.1 Band Edge Compliance (NTNV) for TX=2402 MHz

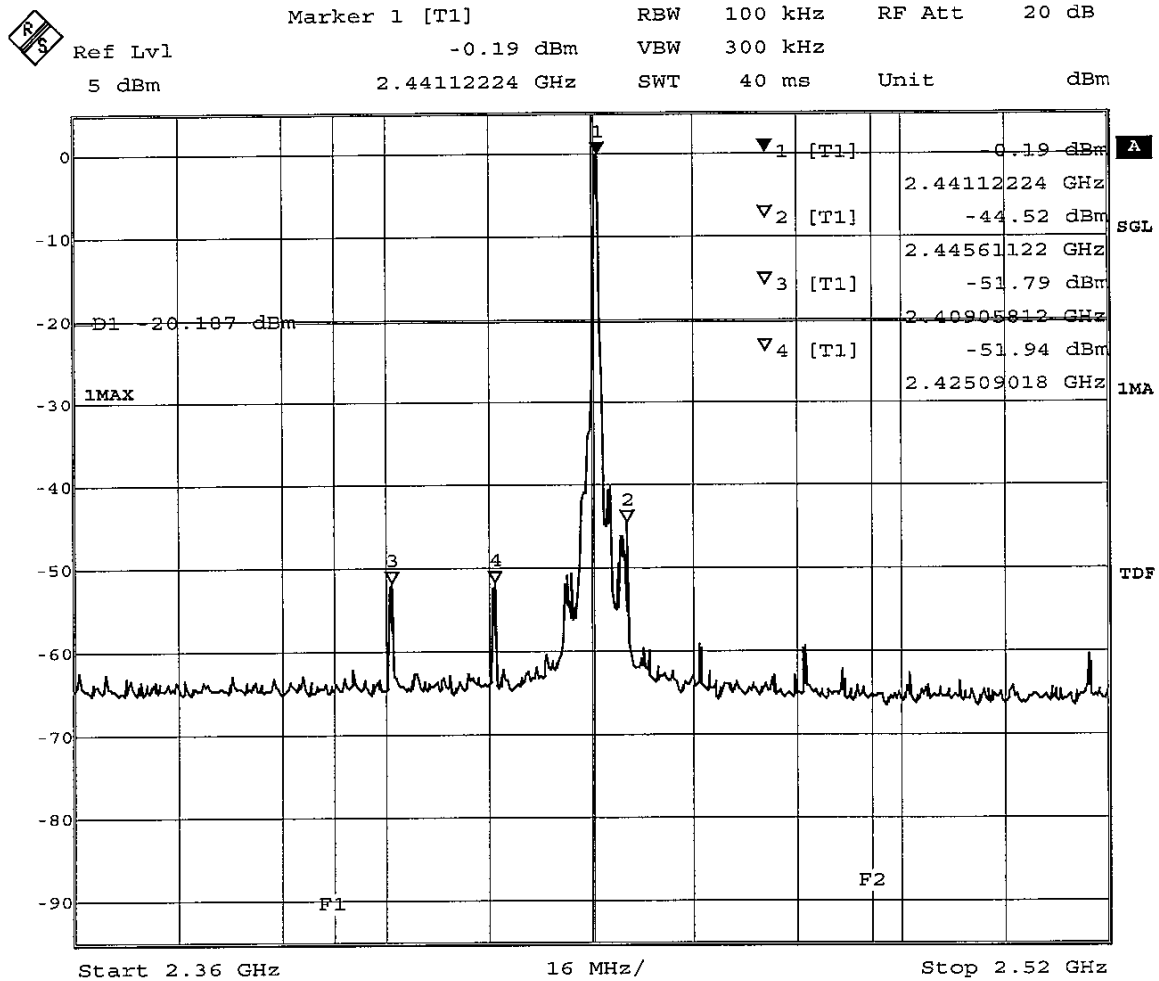


Title: Band Edge Compliance
Comment A: CH B: 2402 MHz
Date: 12.AUG.2002 10:13:53

Comments:



1.1.2 Band Edge Compliance (NTNV) for TX=2441 MHz

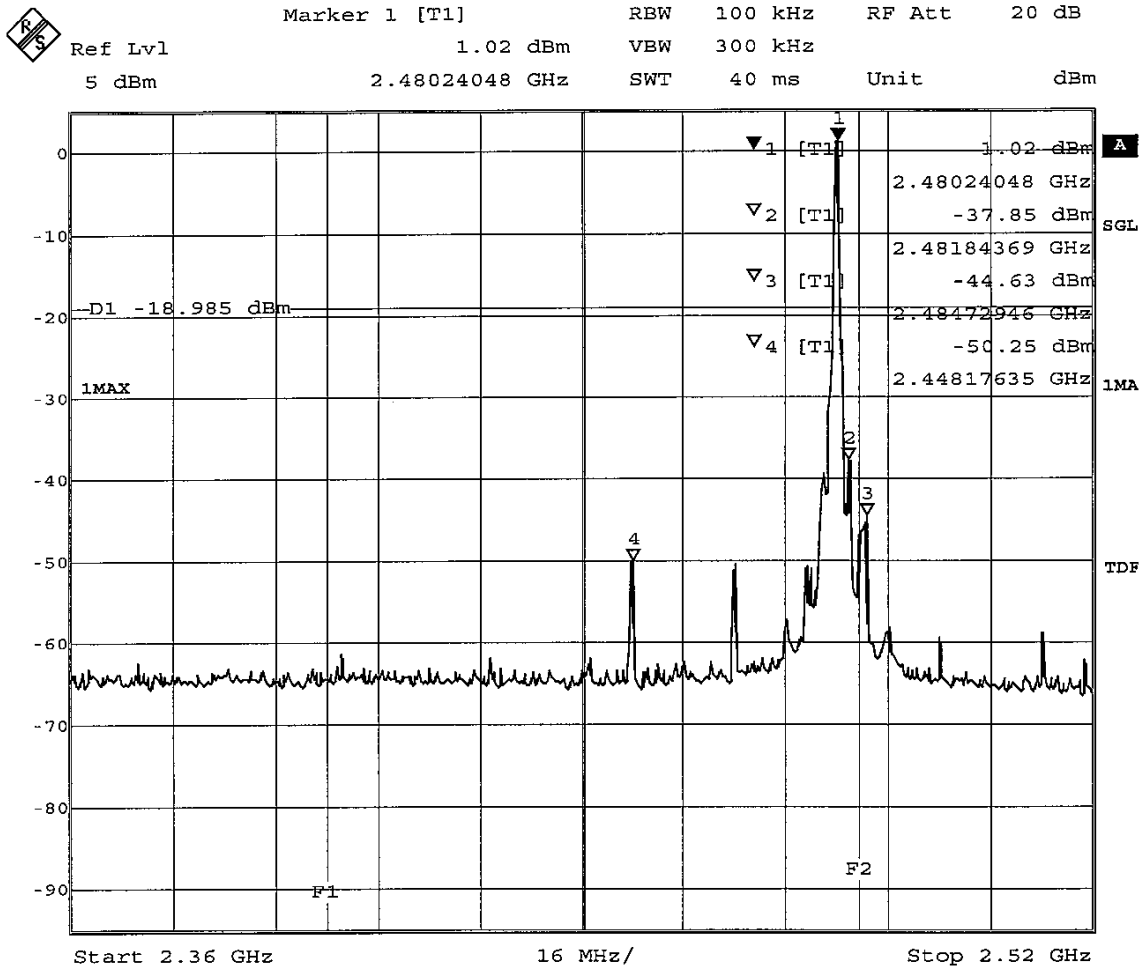


Title: Band Edge Compliance
Comment A: CH M: 2441 MHz
Date: 12.AUG.2002 10:38:05

Comments:



1.1.3 Band Edge Compliance (NTNV) for TX=2480 MHz



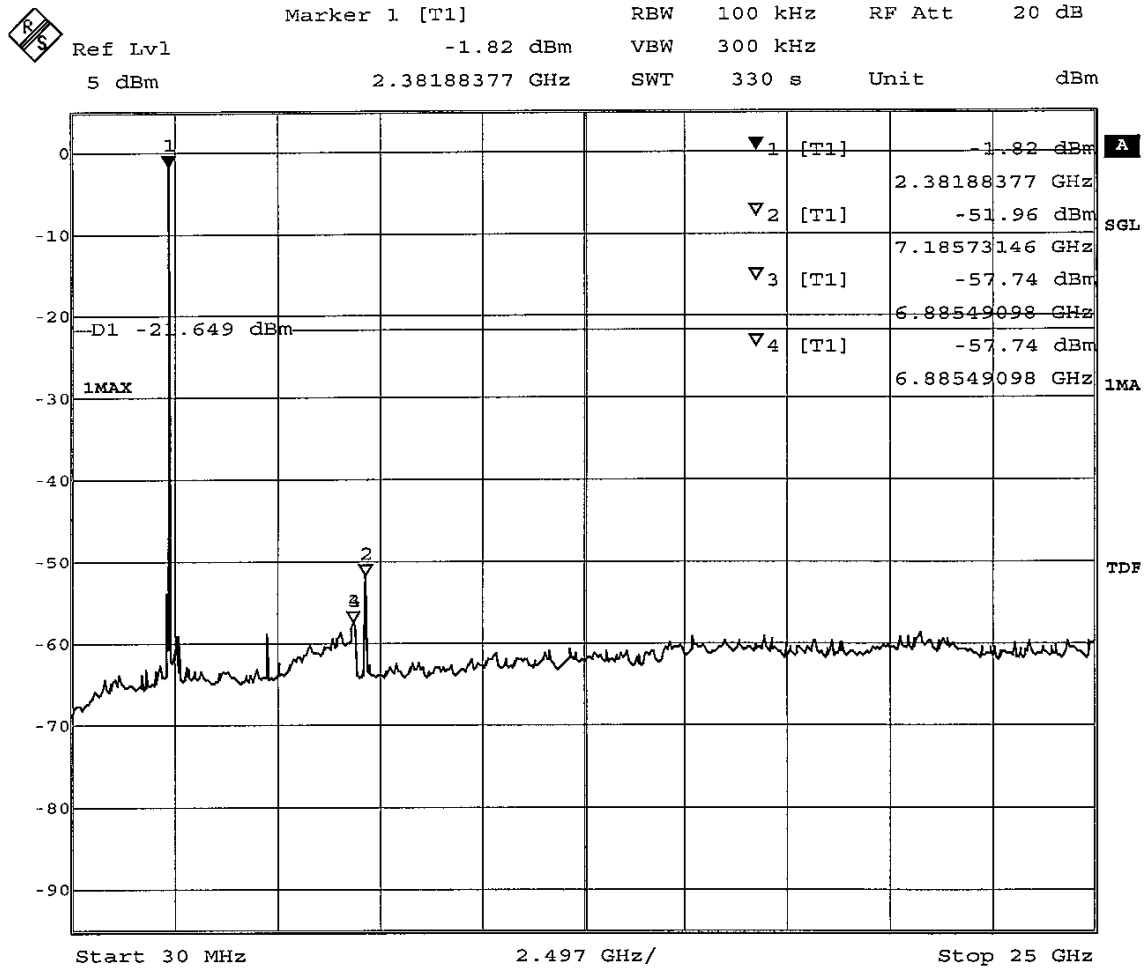
Title: Band Edge Compliance
 Comment A: CH T: 2480 MHz
 Date: 12.AUG.2002 11:03:29

Comments:



1.2 Spurious Emissions (NTNV)

1.2.1 Spurious Emissions TX=2402 MHz (NTNV)

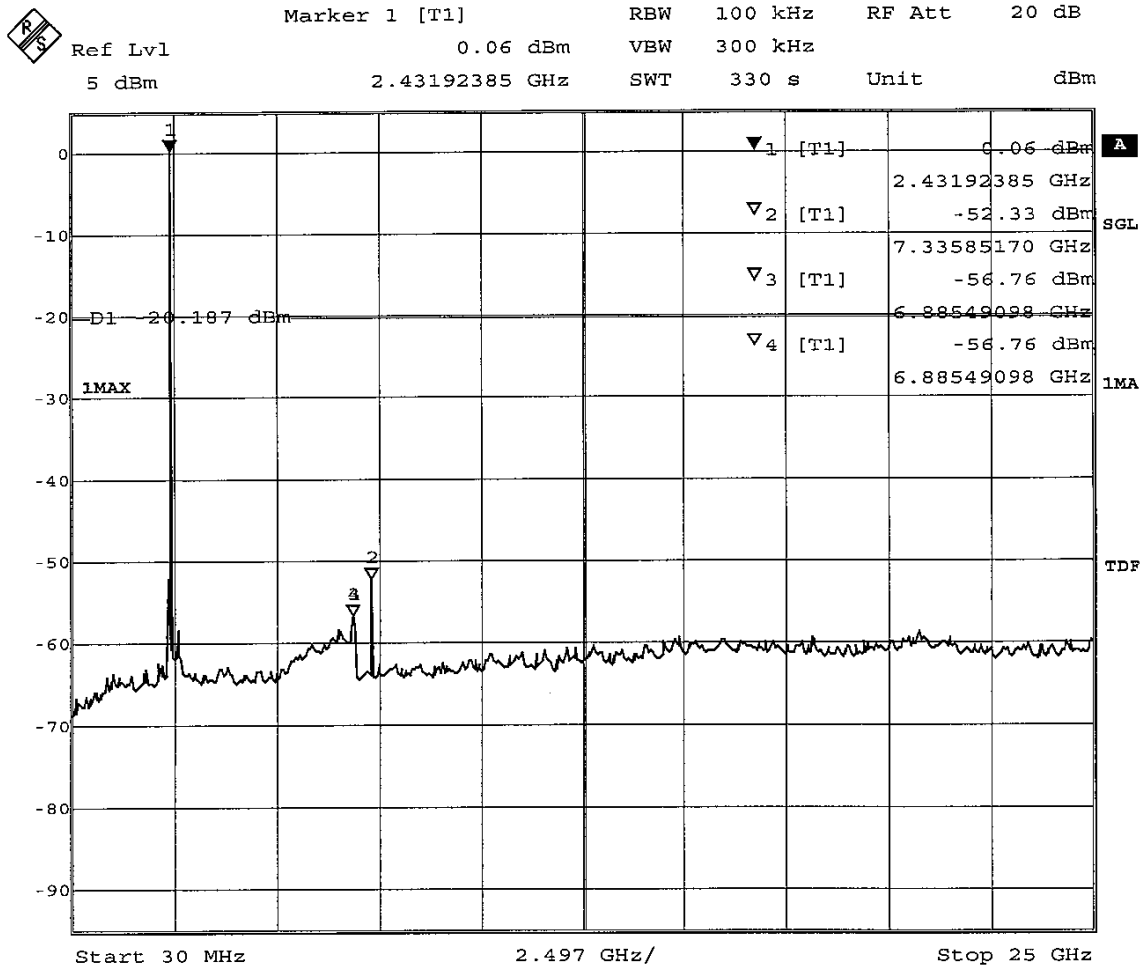


Title: spurious emissions
Comment A: CH B: 2402 MHz
Date: 12.AUG.2002 10:25:30

Comments:



1.2.2 Spurious Emissions TX=2441 MHz (NTNV)

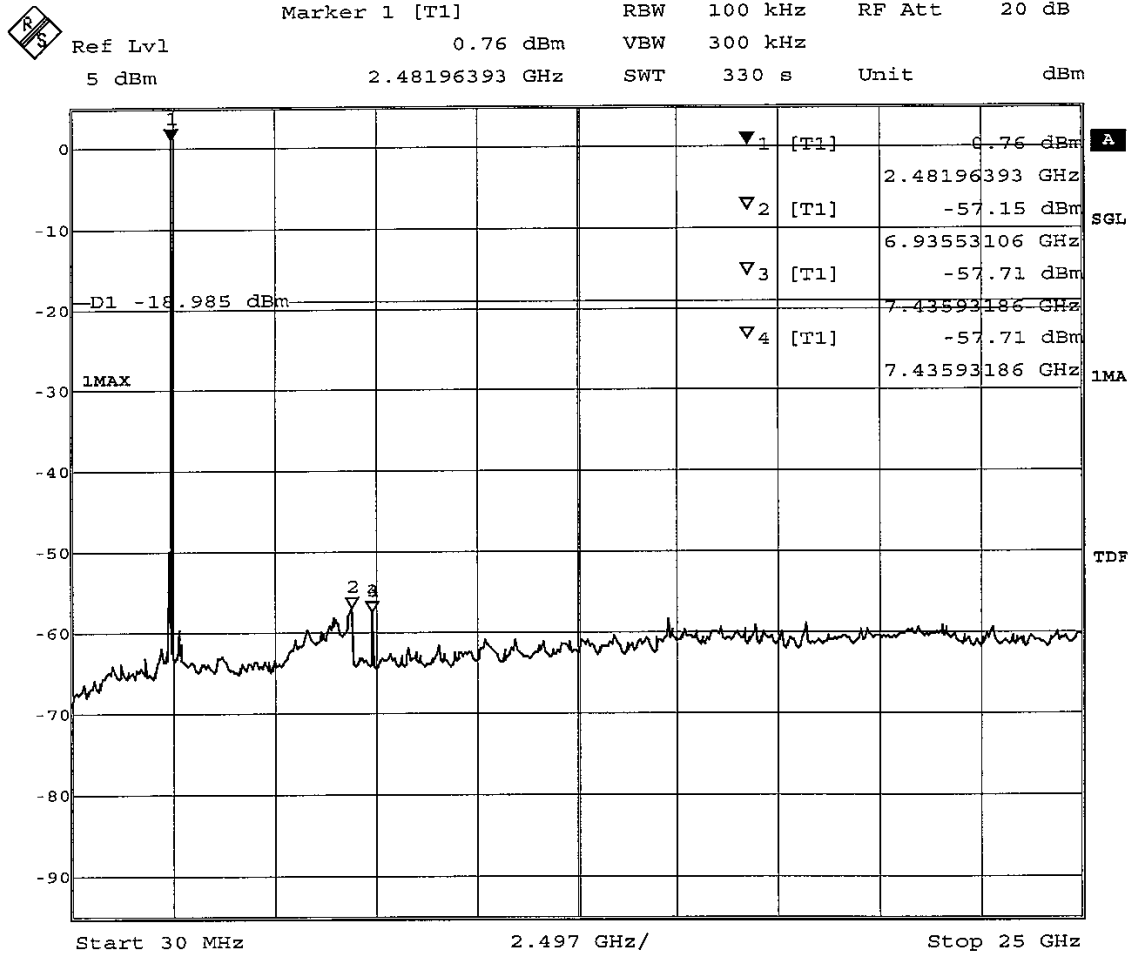


Title: spurious emissions
Comment A: CH M: 2441 MHz
Date: 12.AUG.2002 10:49:42

Comments:



1.2.3 Spurious Emissions TX=2480 MHz (NTNV)

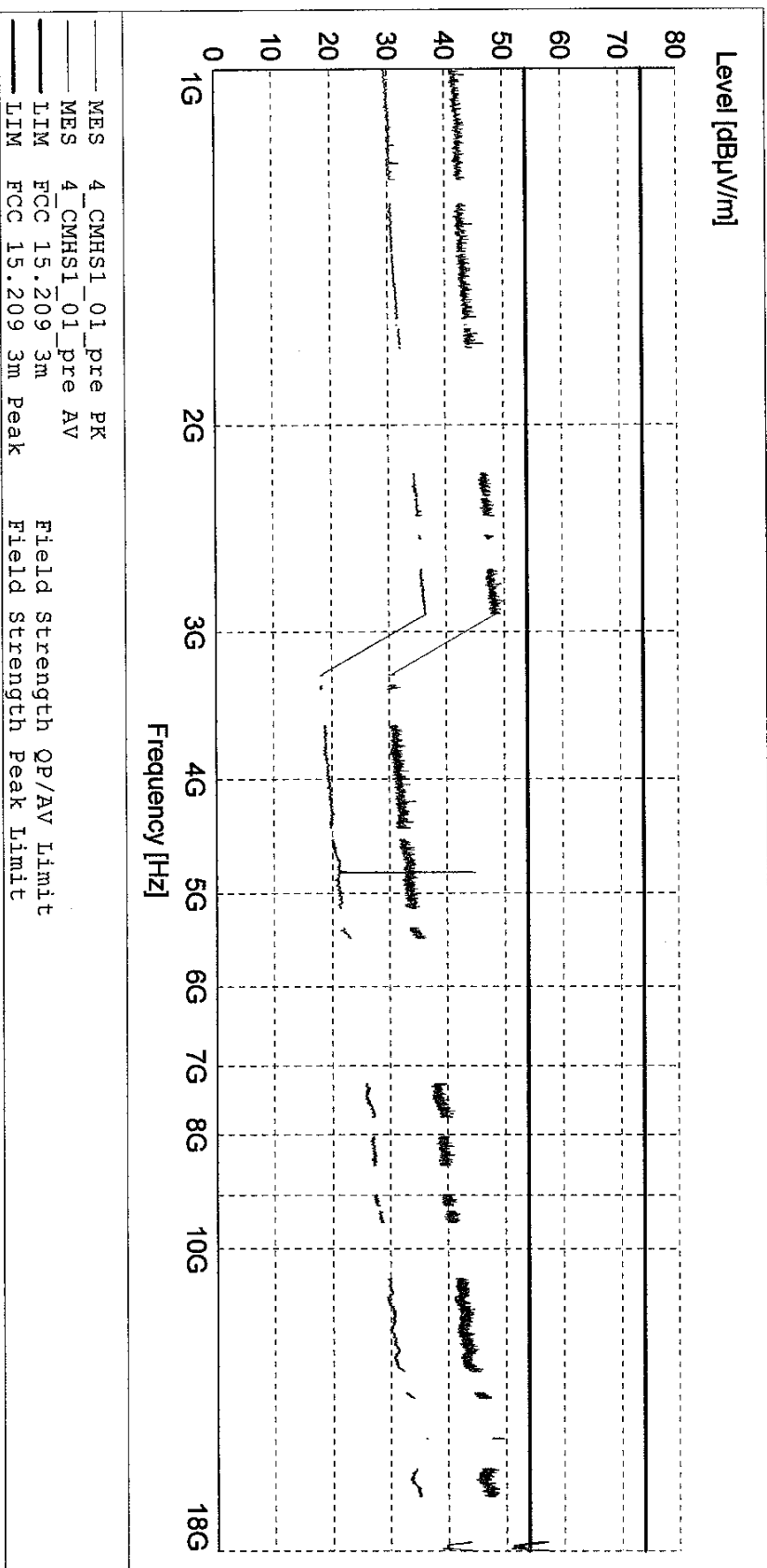


Title: spurious emissions
Comment A: CH T: 2480 MHz
Date: 12.AUG.2002 11:15:06

Comments:

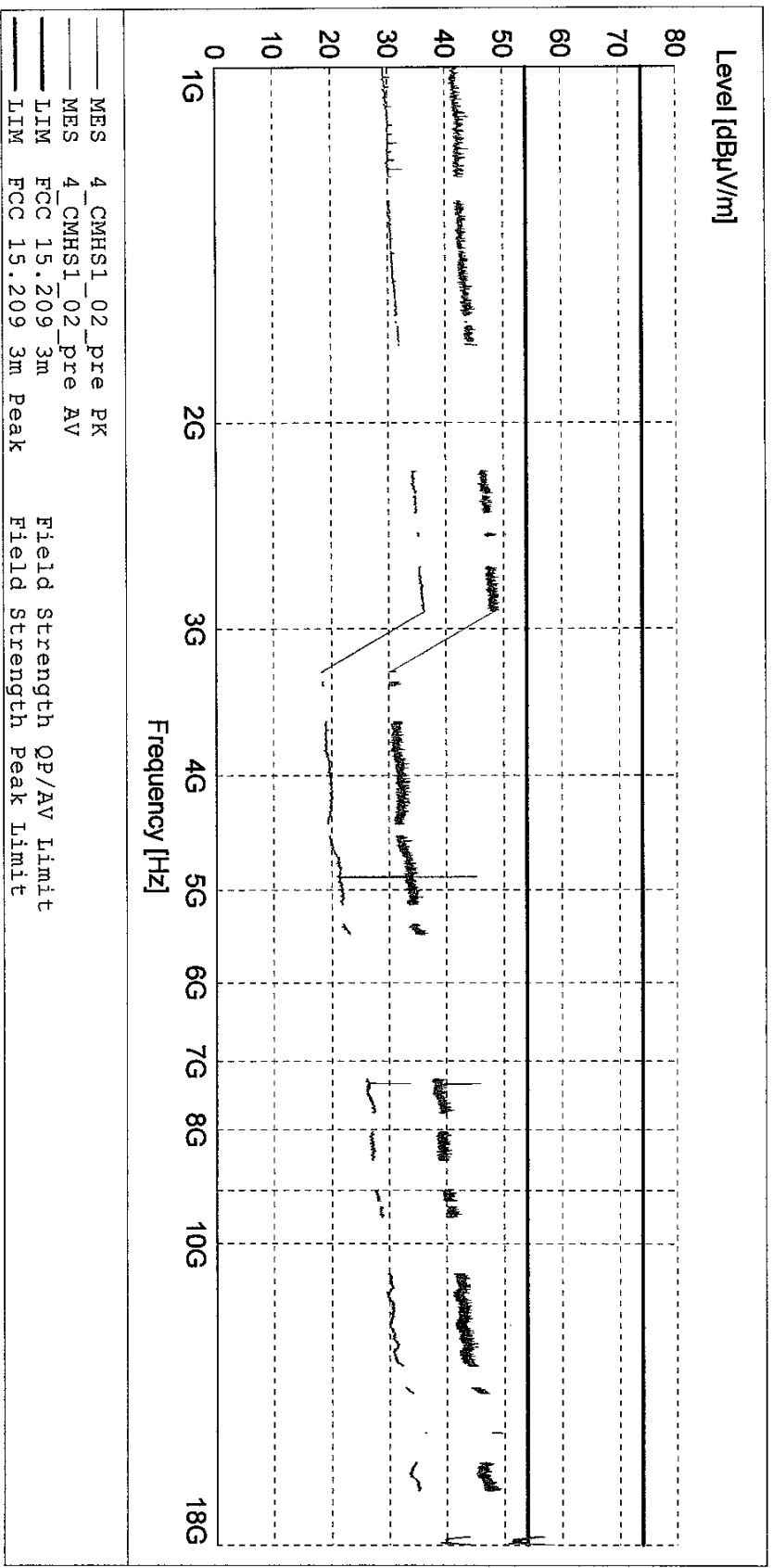
SPURIOUS EMISSION RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
 Manufacturer: Plextek
 Operating Condition: TX on 2402 MHz
 Rest Site: 7 layers Ratingen
 Operator: TAP
 Test Specification: FCC 15.247 (15.35b, 15.209)
 Comment: vertical + horizontal antenna polarisation
 vertical EUT position



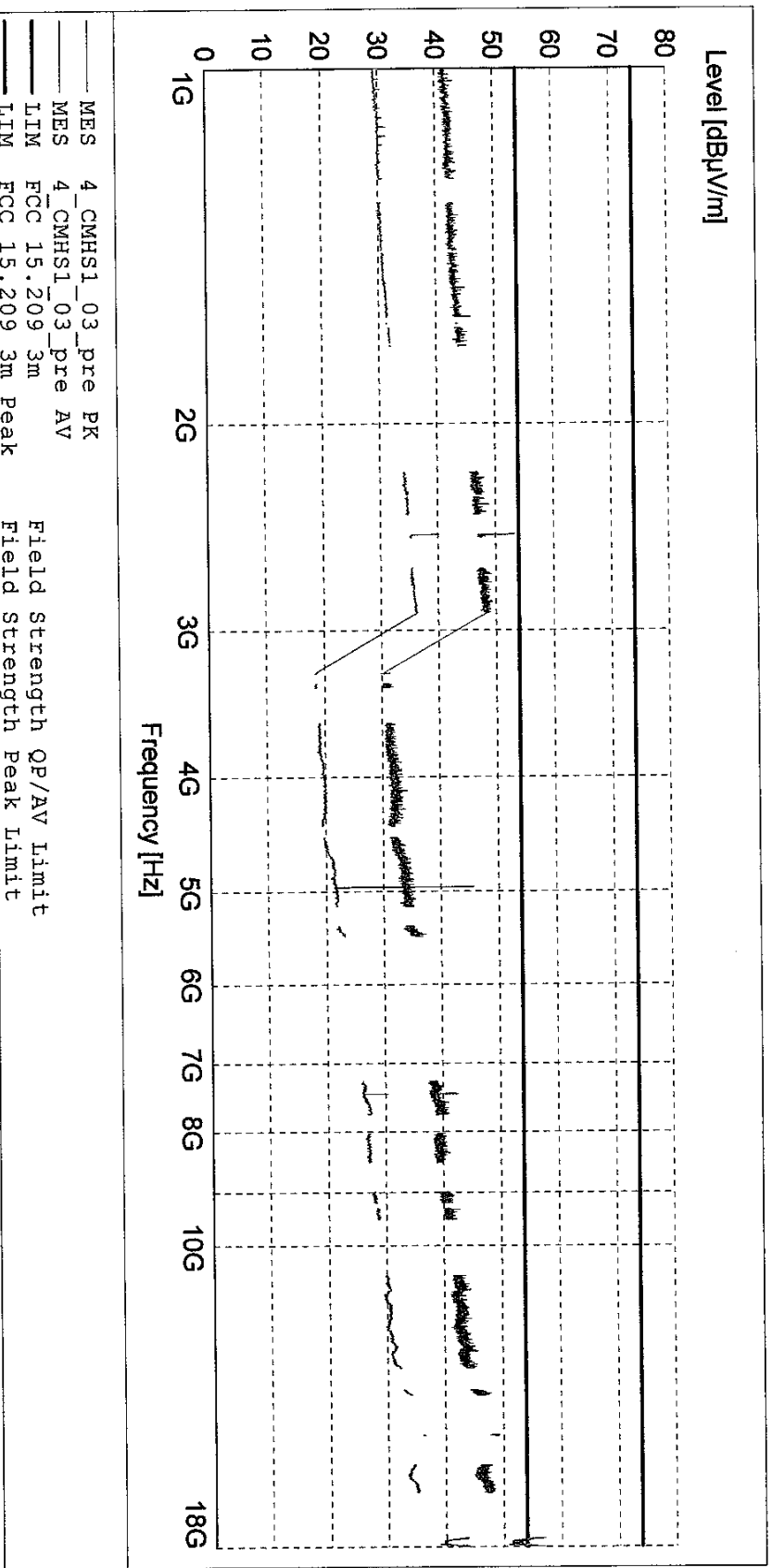
SPURIOUS EMISSION RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
 Manufacturer: Plextek
 Operating Condition: TX on 2441 MHz
 Test Site: 7 Layers Ratingen
 Operator: MAC
 Test Specification: FCC 15.247 (15.35b, 15.209)
 Comment: vertical + horizontal antenna polarisation
 vertical EUT position



SPURIOUS EMISSION RADIATED

EUT: CMHS1 (03100B01) / 12.08.2002
 Manufacturer: Plextek
 Operating Condition: TX on 2480 MHz
 Test Site: 7 layers Ratlingen
 Operator: TAP
 Test Specification: FCC 15.247 (15.35b, 15.209)
 Comment: vertical + horizontal antenna polarisation
 vertical EUT position

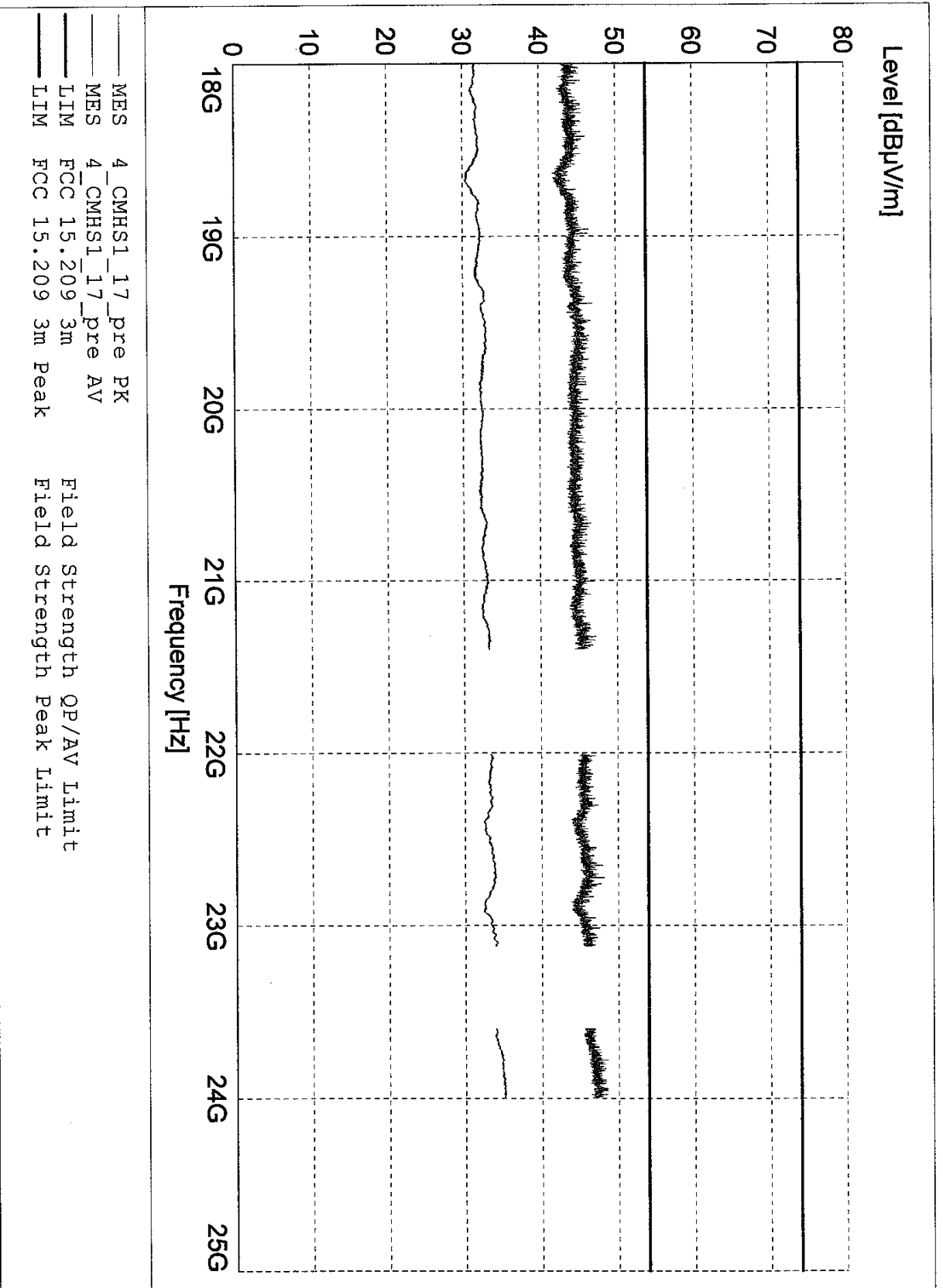


SPURIOUS EMISSION RADIATE

EUT: CMHS1 (03100b01) / 13.08.2002
 Manufacturer: Plextek
 Operating Condition: TX on 2402 MHz
 Test Site: 7 Layers Ratingen
 Operator: TAP
 Test Specification: FCC 15.247 (15.35p, 15.209)
 Comment: vertical + horizontal antenna polarisation
 vertical EUT position

SCAN TABLE: "FCC 15.209 C Field m"

Short Description:	FCC Class	Field Strength	Detector	Meas. Time	IF Bandw.	Transducer
Start	Stop	Step	MaxPeak	100.0 ms	120 KHz	HL562
Frequency 30.0 MHz	1000.0 MHz	60.0 KHz	MaxPeak	100.0 ms	1 MHz	HF 906 / 001
1.0 GHz	2.4 GHz	500.0 KHz	Average	100.0 ms	1 MHz	HF 906 / 001
2.5 GHz	7.0 GHz	500.0 KHz	MaxPeak	100.0 ms	1 MHz	HF 906 / 001
7.0 GHz	18.0 GHz	500.0 KHz	Average	100.0 ms	1 MHz	HF 906 / 001
18.0 GHz	25.0 GHz	500.0 KHz	MaxPeak	100.0 ms	1 MHz	EMCO 3160-09
			Average			

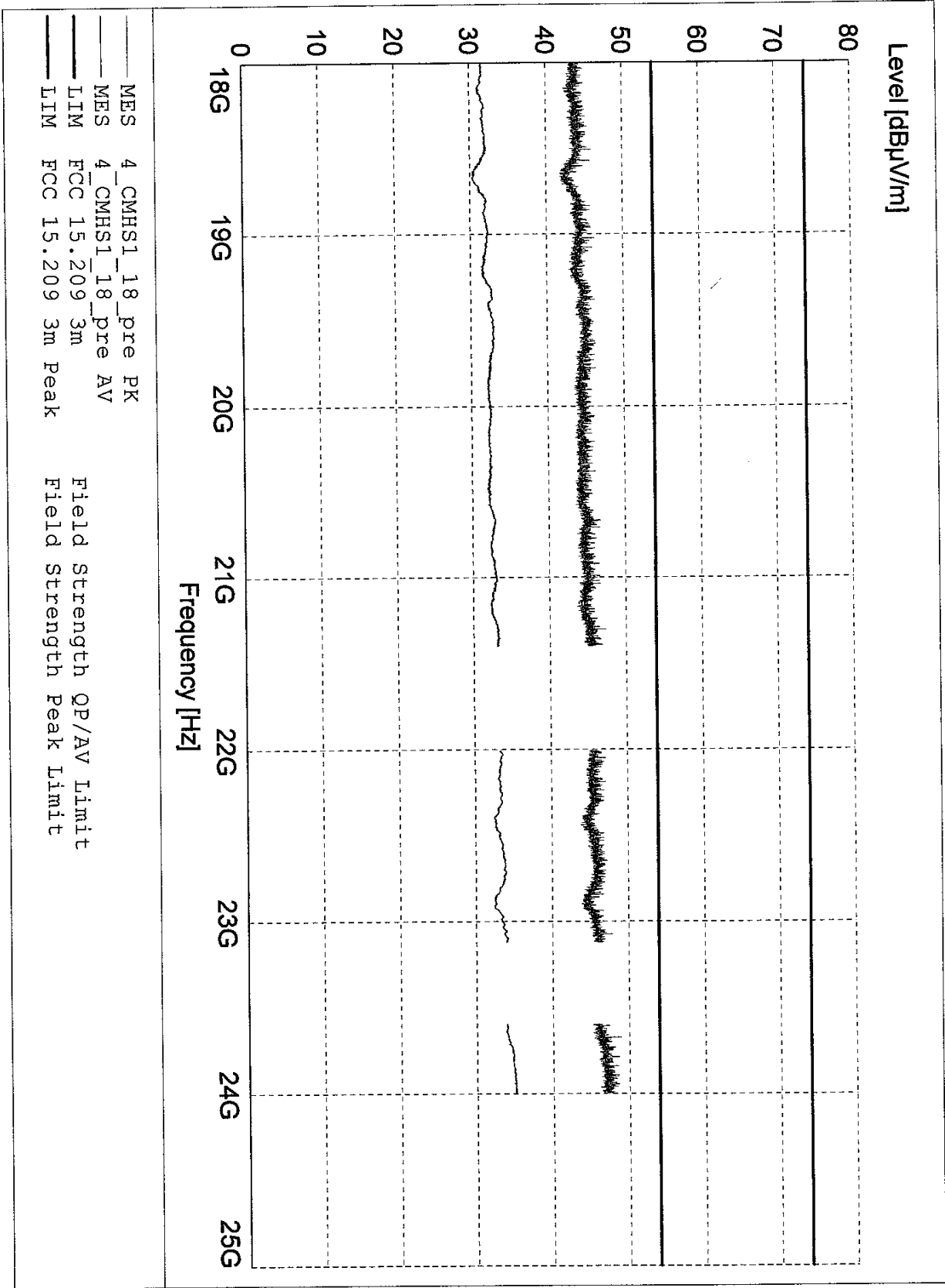


SPURIOUS EMISSION RADIATE

EUT: CMHS1 (03100b01) / 13.08.2002
 Manufacturer: Plextek
 Operating Condition: TX on 2441 MHz
 Test Site: 7 Layers Ratingen
 Operator: GAL
 Test Specification: FCC 15.247 (15.35D, 15.209)
 Comment: vertical + horizontal antenna polarisation
 vertical EUT position

SCAN TABLE: "FCC 15.209 C Field m"

Start	Stop	Step	FCC ClassA	Field Strength	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1000.0 MHz	60.0 kHz	MaxPeak	100.0 ms	120 kHz	HL562		
1.0 GHz	2.4 GHz	500.0 kHz	MaxPeak	100.0 ms	1 MHz	HF 906 / 001		
			Average					
2.5 GHz	7.0 GHz	500.0 kHz	MaxPeak	100.0 ms	1 MHz	HF 906 / 001		
			Average					
7.0 GHz	18.0 GHz	500.0 kHz	MaxPeak	100.0 ps	1 MHz	HF 906 / 001		
			Average					
18.0 GHz	25.0 GHz	500.0 kHz	MaxPeak	100.0 ms	1 MHz	EMCO 3160-09		
			Average					



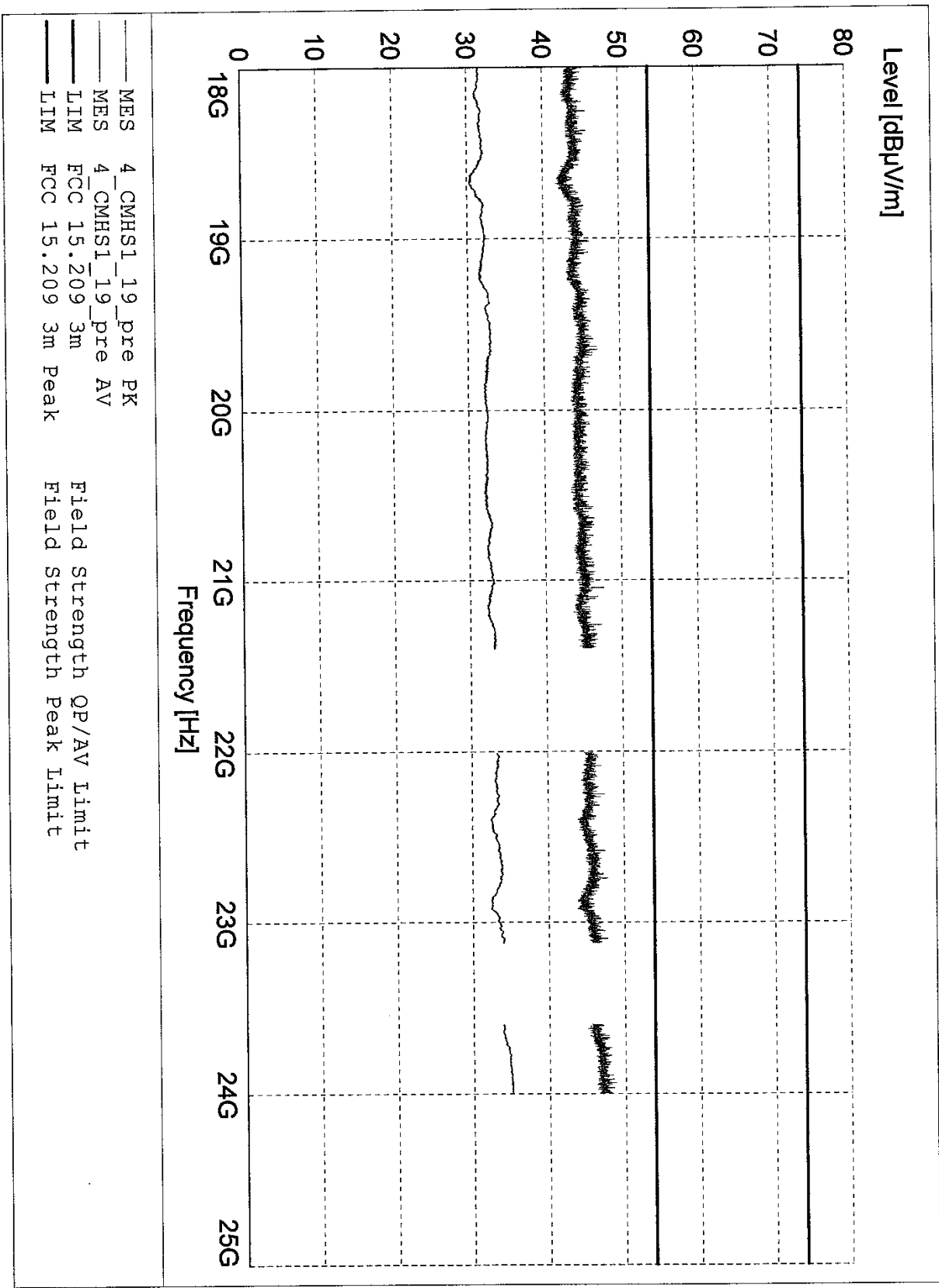
MES 4_CMHS1_18_pre PK
 MES 4_CMHS1_18_pre AV
 LIM FCC 15.209 3m
 LIM FCC 15.209 3m Peak
 Field Strength QP/AV Limit
 Field Strength Peak Limit

SPURIOUS EMISSION RADIATE

EUT: CMHS1 (03100b01) / 13.08.2002
 Manufacturer: Plextek
 Operating Condition: TX on 2480 MHz
 Test Site: 7 Layers Ratingen
 Operator: GAL
 Test Specification: FCC 15.247 (15.35b, 15.209)
 Comment: vertical + horizontal antenna polarisation
 vertical EUT position

SCAN TABLE: "FCC 15.209 C Field m"

Start	Stop	Step	FCC ClassA	Field Strength	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1000.0 MHz	60.0 KHz	MaxPeak	100.0 ms	120 KHz	HL562		
1.0 GHz	2.4 GHz	500.0 KHz	MaxPeak	100.0 ms	1 MHz	HF 906 / 001		
2.5 GHz	7.0 GHz	500.0 KHz	Average	100.0 ms	1 MHz	HF 906 / 001		
7.0 GHz	18.0 GHz	500.0 KHz	MaxPeak	100.0 ps	1 MHz	HF 906 / 001		
18.0 GHz	25.0 GHz	500.0 KHz	Average	100.0 ms	1 MHz	EMCO 3160-09		



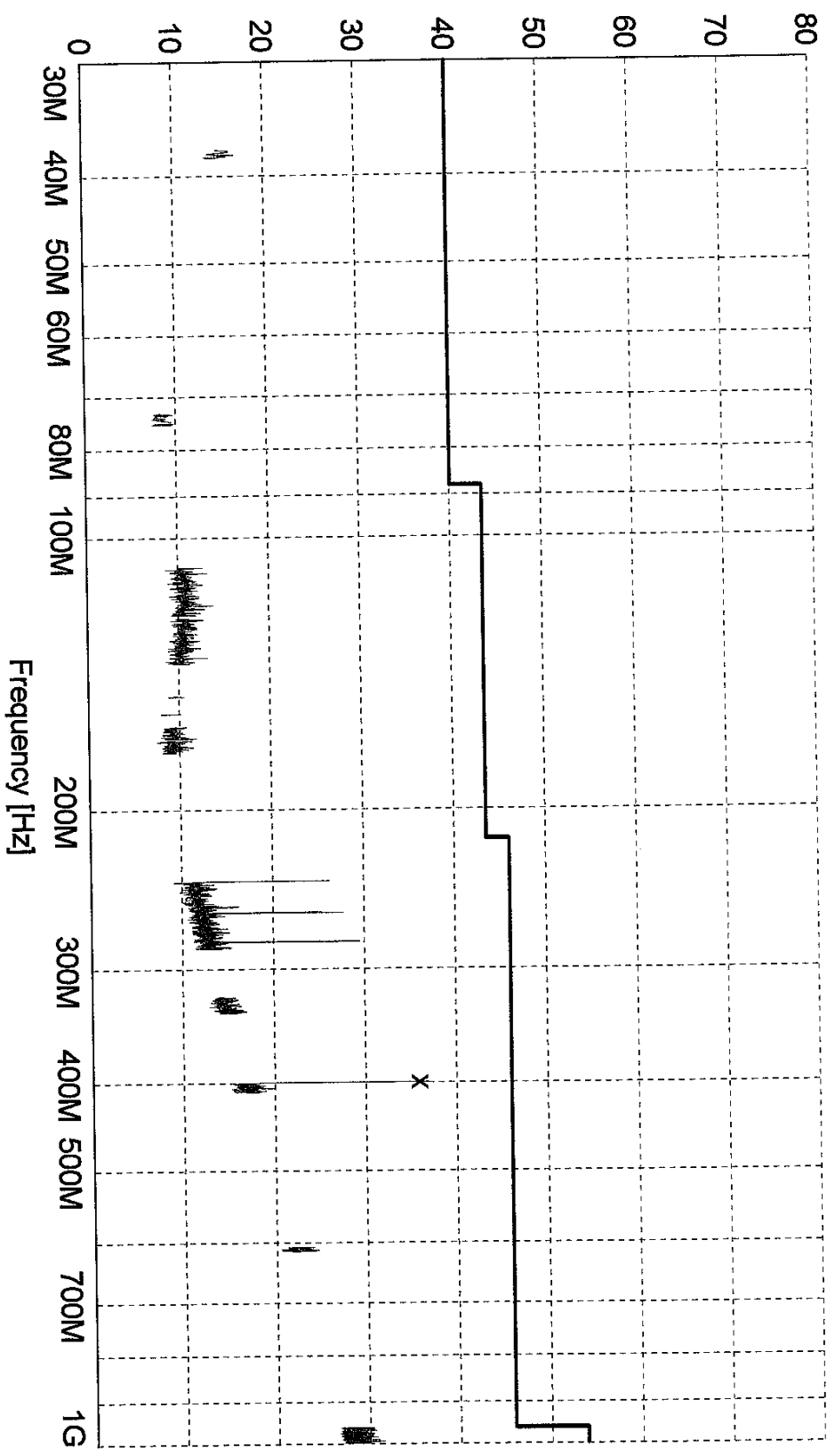
SPURIOUS EMISSION RADIATED

EUT: CMHS1 (03100b01) / 13.08.2002
 Manufacturer: Plextek
 Operating Condition: TX on 2402 MHz
 Test Site: 7 layers, Ratingen
 Operator: MAC
 Test Specification: FCC 15.247 (15.35b, 15.209)
 Comment: vertical + horizontal polarisation
 Start of Test: 14.08.02 / 08:08:23

SCAN TABLE: "FCC 15.209 Field <1G"

Start Frequency	Stop Frequency	Step	Width	Detector	Field Strength	IF	Bandw.	Transducer
37.5 MHz	38.3 MHz	60.0 KHz	60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562	
73.0 MHz	74.6 MHz	60.0 KHz	60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562	
74.8 MHz	75.2 MHz	60.0 KHz	60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562	
108.0 MHz	121.9 MHz	60.0 KHz	60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562	
123.0 MHz	138.0 MHz	60.0 KHz	60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562	
149.9 MHz	150.1 MHz	60.0 KHz	60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562	
156.5 MHz	156.5 MHz	60.0 KHz	60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562	
156.7 MHz	156.9 MHz	60.0 KHz	60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562	
162.0 MHz	167.2 MHz	60.0 KHz	60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562	
167.7 MHz	173.2 MHz	60.0 KHz	60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562	
240.0 MHz	285.0 MHz	60.0 KHz	60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562	
322.0 MHz	335.4 MHz	60.0 KHz	60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562	
399.9 MHz	410.0 MHz	60.0 KHz	60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562	
608.0 MHz	614.0 MHz	60.0 KHz	60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562	
960.0 MHz	1.0 GHz	60.0 KHz	60.0 KHz	MaxPeak	100.0 µs	120 KHz	HL562	

Level [dB μ V/m]



x x : MES 4 CMHS1_20_fin QP
MES 4 CMHS1_20_pre PK
LIM FCC 15.209 3m

Field Strength QP/AV Limit

MEASUREMENT RESULT: "4_CMHS1_20_fin_QP"

14.08.02 08:43

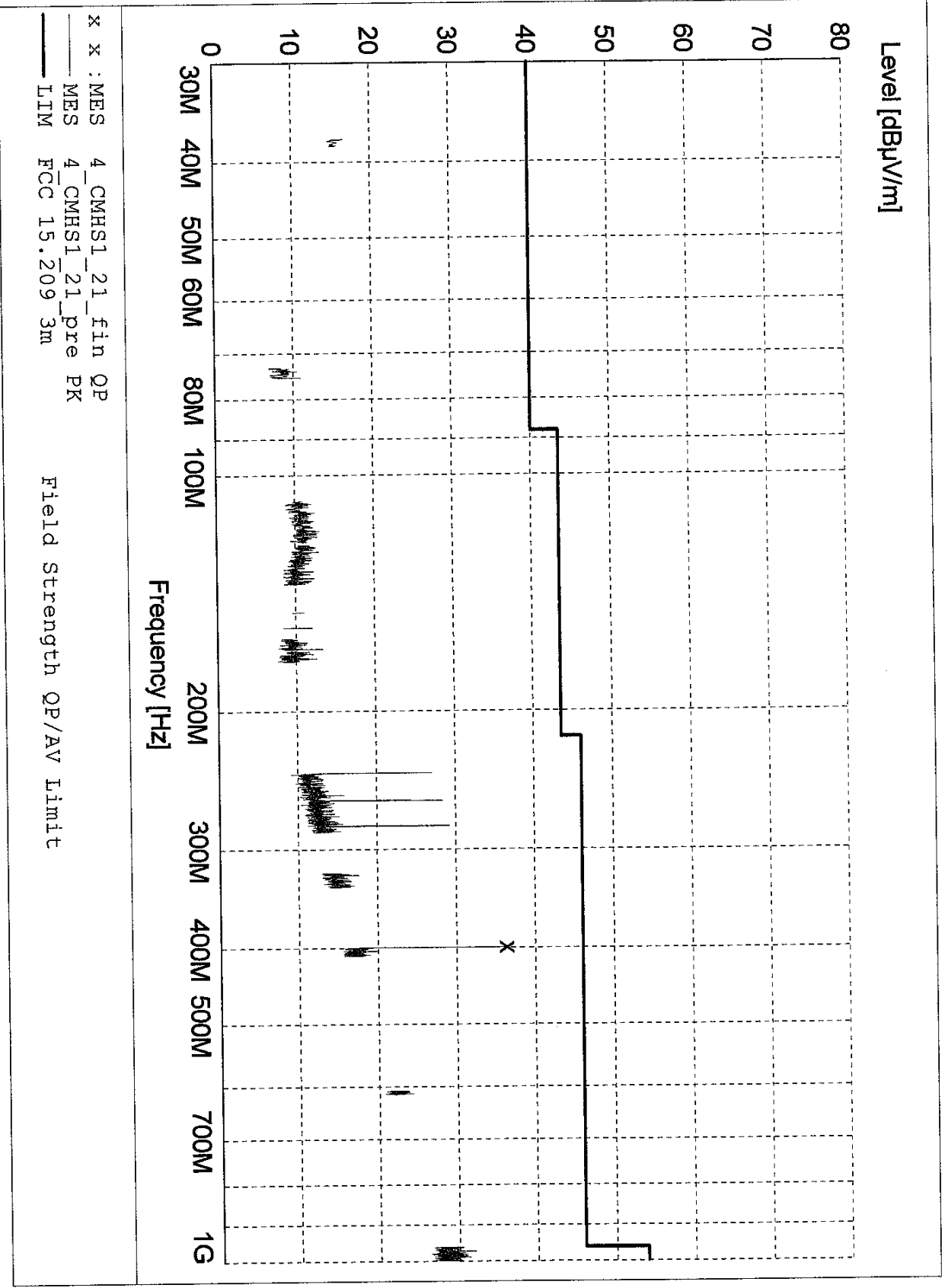
Frequency MHz	Level dB _{HV} /m	Transd dB	Limit dB _{HV} /m	Margin dB	Height cm	Azimuth deg	Polarisation
399.960000	36.10	16.4	46.0	9.9	100.0	-177.00	VERTICAL

SPURIOUS EMISSION RADIATED

EUT: CMHS1 (03100b01) / 13.08.2002
 Manufacturer: Plextek
 Operating Condition: TX on 2441 MHz
 Test Site: 7 layers, Ratingen
 Operator: MAC
 Test Specification: FCC 15.247 (15.35p, 15.209)
 Comment: vertical + horizontal polarisation
 Start of Test: 14.08.02 / 08:47:24

SCAN TABLE: "FCC 15.209 Field <1G"

Start	Stop	Frequency	Step	Detector	Meas. Time	IF Bandw.	Transducer
37.5 MHz	38.3 MHz	60.0 KHz	MaxPeak	100.0 ps	120 KHz	HL562	
73.0 MHz	74.6 MHz	60.0 KHz	MaxPeak	100.0 ps	120 KHz	HL562	
74.8 MHz	75.2 MHz	60.0 KHz	MaxPeak	100.0 ps	120 KHz	HL562	
108.0 MHz	121.9 MHz	60.0 KHz	MaxPeak	100.0 ps	120 KHz	HL562	
123.0 MHz	138.0 MHz	60.0 KHz	MaxPeak	100.0 ps	120 KHz	HL562	
149.9 MHz	150.1 MHz	60.0 KHz	MaxPeak	100.0 ps	120 KHz	HL562	
156.5 MHz	156.5 MHz	60.0 KHz	MaxPeak	100.0 ps	120 KHz	HL562	
156.7 MHz	156.9 MHz	60.0 KHz	MaxPeak	100.0 ps	120 KHz	HL562	
162.0 MHz	167.2 MHz	60.0 KHz	MaxPeak	100.0 ps	120 KHz	HL562	
167.7 MHz	173.2 MHz	60.0 KHz	MaxPeak	100.0 ps	120 KHz	HL562	
240.0 MHz	285.0 MHz	60.0 KHz	MaxPeak	100.0 ps	120 KHz	HL562	
322.0 MHz	335.4 MHz	60.0 KHz	MaxPeak	100.0 ps	120 KHz	HL562	
399.9 MHz	410.0 MHz	60.0 KHz	MaxPeak	100.0 ps	120 KHz	HL562	
608.0 MHz	614.0 MHz	60.0 KHz	MaxPeak	100.0 ps	120 KHz	HL562	
960.0 MHz	1.0 GHz	60.0 KHz	MaxPeak	100.0 ps	120 KHz	HL562	



MEASUREMENT RESULT: "4_CMHS1_21_fin_QP"

14.08.02 09:27

Frequency MHz	Level dBV/m	Transd dB	Limit dBV/m	Margin dB	Height cm	Azimuth deg	Polarisation
400.020000	36.60	16.4	46.0	9.4	100.0	179.00	VERTICAL

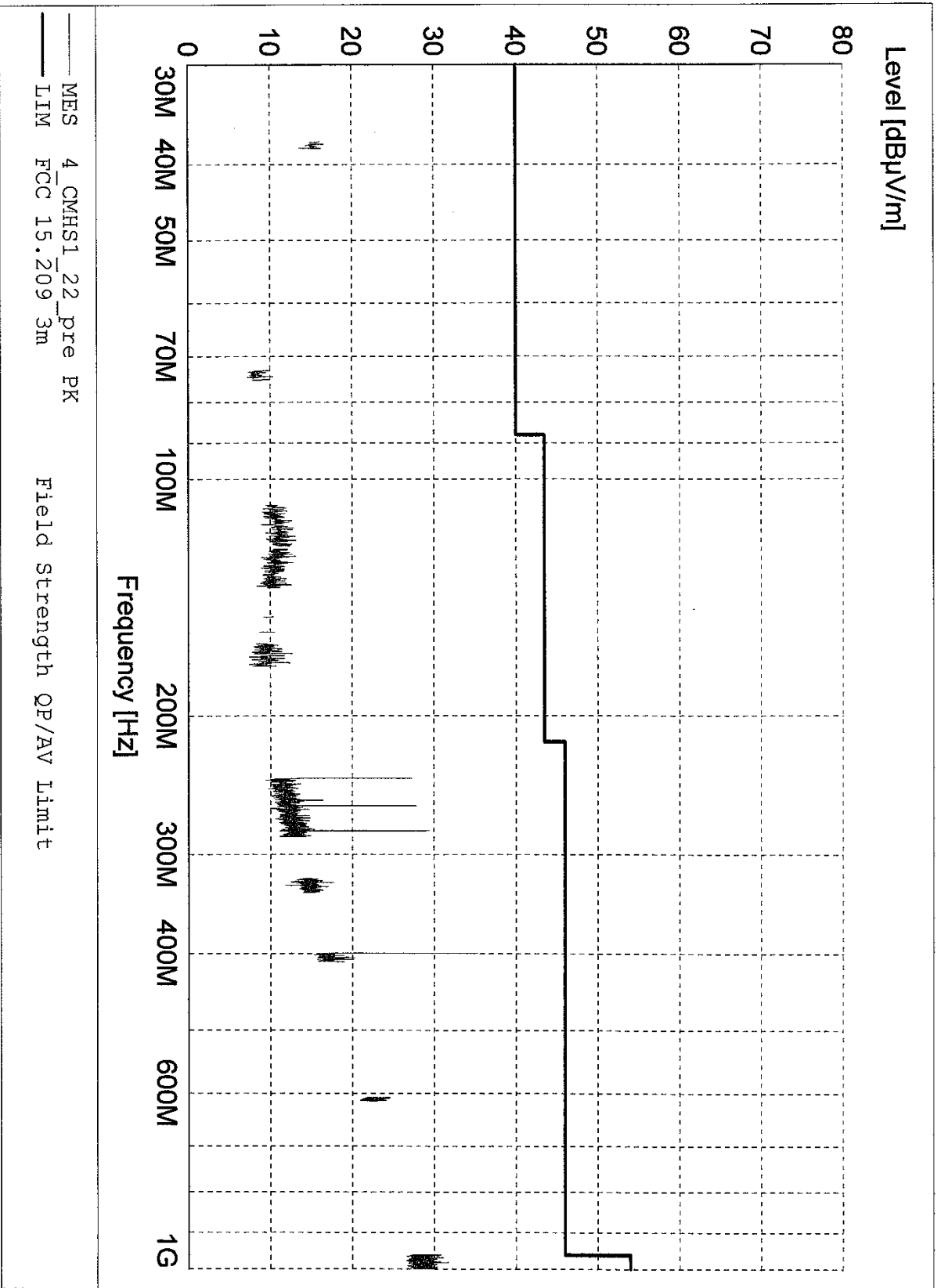
SPURIOUS EMISSION RADIATED

EUT: CMHS1 (03100b01) / 13.08.2002
 Manufacturer: Plextek
 Operating Condition: TX on 2480 MHz
 Test Site: 7 layers, Ratingen
 Operator: MAC
 Test Specification: FCC 15.247 (15.35b, 15.209)
 Comment: vertical + horizontal polarisation
 Start of Test: 14.08.02 / 09:30:40

SCAN TABLE: "FCC 15.209 Field <1G"

Short Description: EN 55022 Field Strength

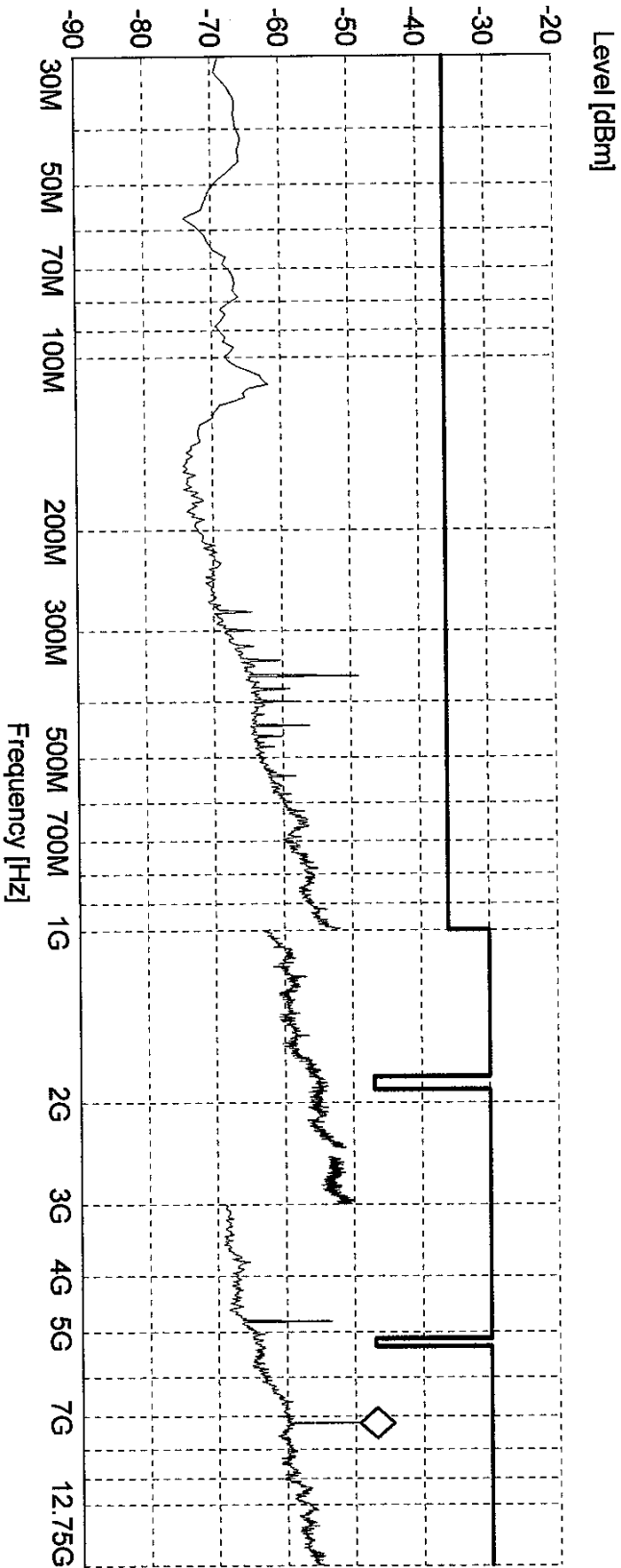
Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
37.5 MHz	38.3 MHz	60.0 kHz	MaxPeak	100.0 ps	120 kHz	HL562
73.0 MHz	74.6 MHz	60.0 kHz	MaxPeak	100.0 ps	120 kHz	HL562
74.8 MHz	75.2 MHz	60.0 kHz	MaxPeak	100.0 ps	120 kHz	HL562
108.0 MHz	121.9 MHz	60.0 kHz	MaxPeak	100.0 ps	120 kHz	HL562
123.0 MHz	138.0 MHz	60.0 kHz	MaxPeak	100.0 ps	120 kHz	HL562
149.9 MHz	150.1 MHz	60.0 kHz	MaxPeak	100.0 ps	120 kHz	HL562
156.5 MHz	156.5 MHz	60.0 kHz	MaxPeak	100.0 ps	120 kHz	HL562
156.7 MHz	156.9 MHz	60.0 kHz	MaxPeak	100.0 ps	120 kHz	HL562
162.0 MHz	167.2 MHz	60.0 kHz	MaxPeak	100.0 ps	120 kHz	HL562
167.7 MHz	173.2 MHz	60.0 kHz	MaxPeak	100.0 ps	120 kHz	HL562
240.0 MHz	285.0 MHz	60.0 kHz	MaxPeak	100.0 ps	120 kHz	HL562
322.0 MHz	335.4 MHz	60.0 kHz	MaxPeak	100.0 ps	120 kHz	HL562
399.9 MHz	410.0 MHz	60.0 kHz	MaxPeak	100.0 ps	120 kHz	HL562
608.0 MHz	614.0 MHz	60.0 kHz	MaxPeak	100.0 ps	120 kHz	HL562
960.0 MHz	1.0 GHz	60.0 kHz	MaxPeak	100.0 ps	120 kHz	HL562



SPURIOUS EMISSIONS RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX on 2402 MHz
Test Site: 7layers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Comment: Vertical antenna polarisation
Vertical EUT position

Marker: 7.200901804 GHz -49.37 dBm



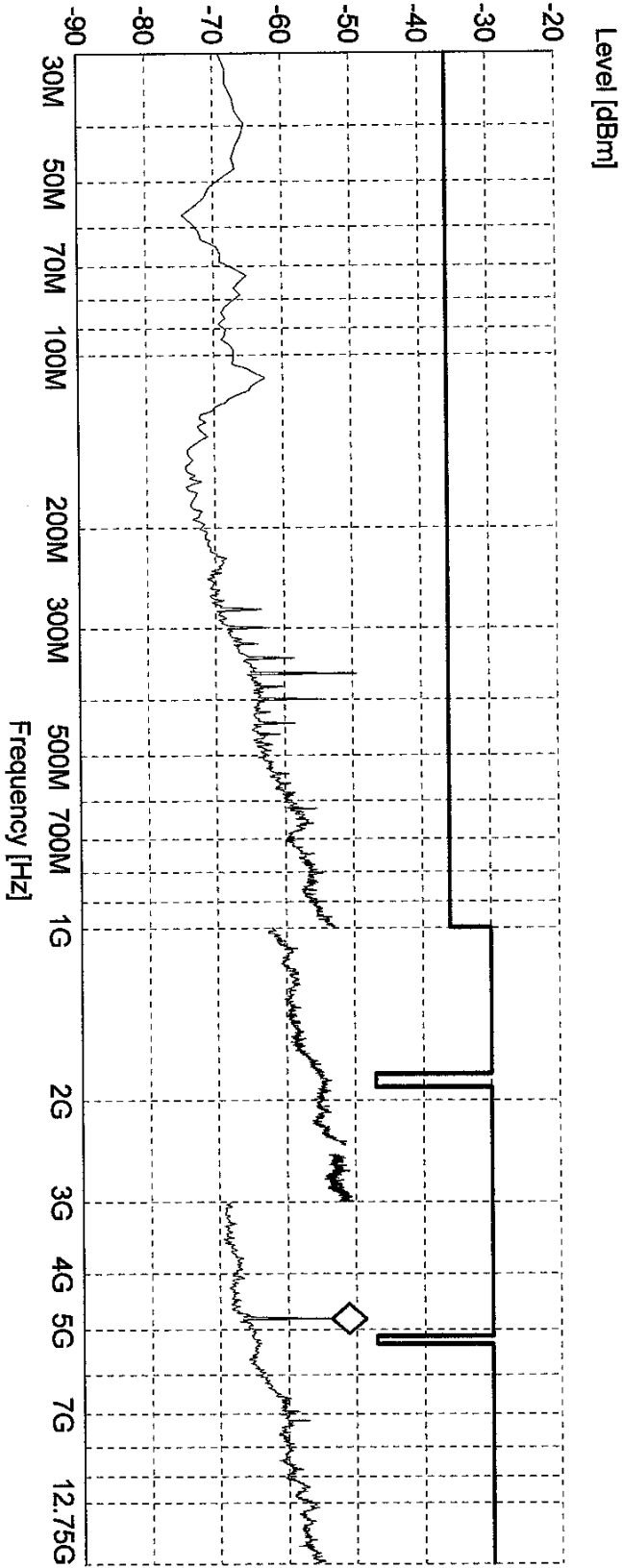
MES 4 CMHS1_10
LIM Blue_TCH_NB

Spurious Emission ETS300328

SPURIOUS EMISSIONS RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX on 2402 MHz
Test Site: 7Layers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Vertical antenna polarisation
Horizontal EUT position

Marker: 4.79759519 GHz -53.63 dBm



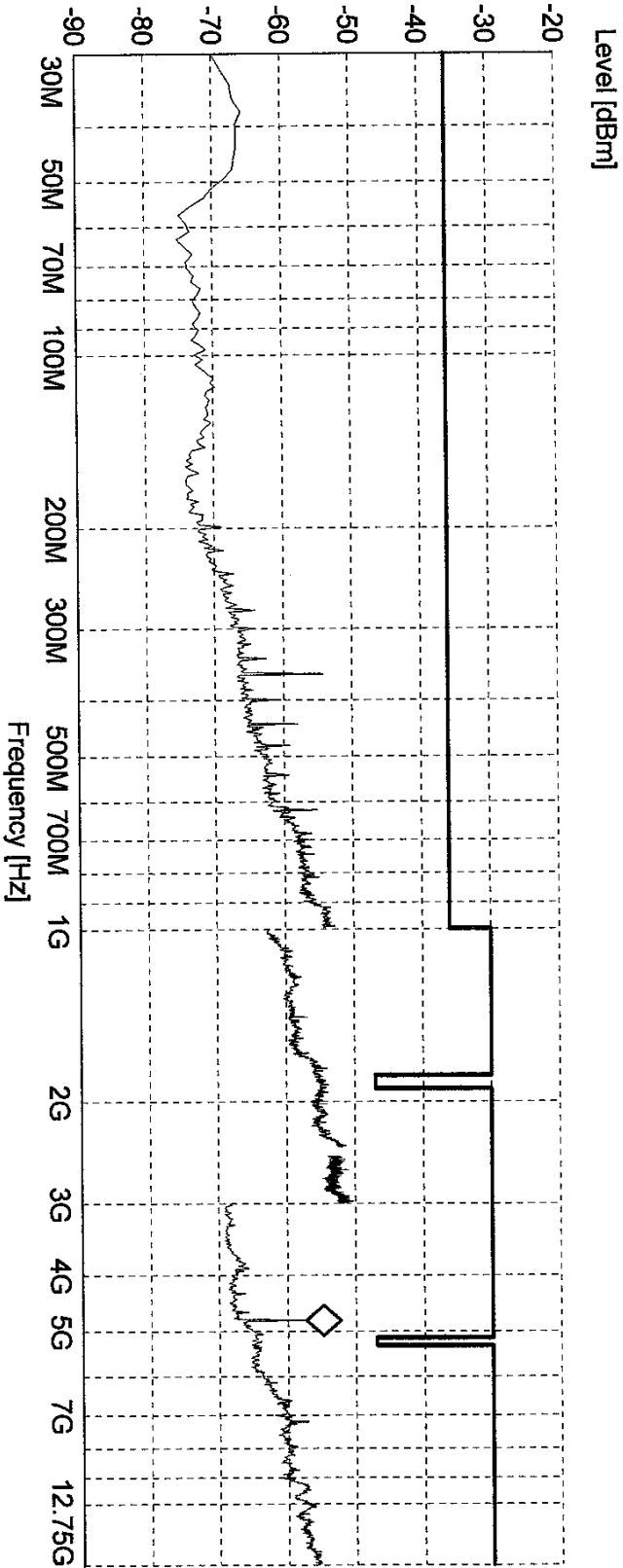
MES 4 CMHS1_11
ITM Blue_TCH_NB

Spurious Emission ETS300328

SPURIOUS EMISSIONS RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX on 2402 MHz
Test Site: 7Layers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Comment: Horizontal antenna polarisation
Vertical EUT position

Marker: 4.79759519 GHz -57.28 dBm



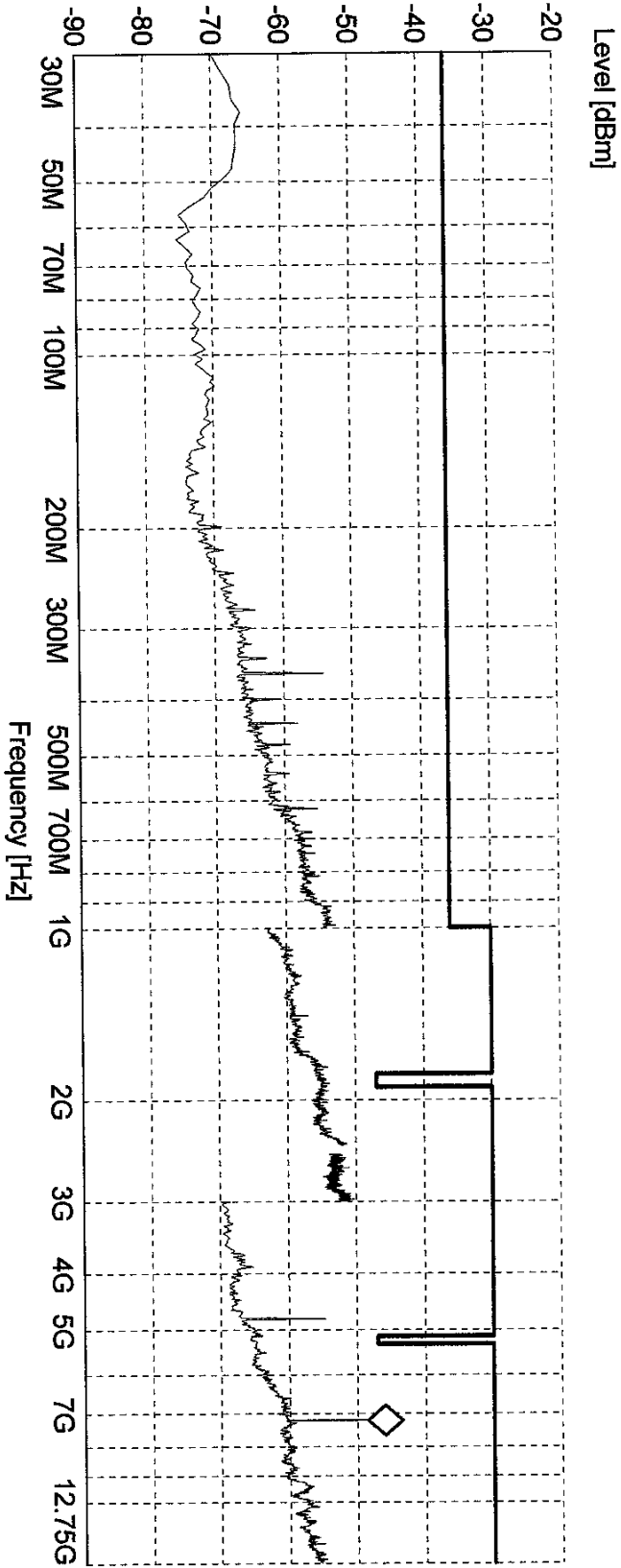
MES 4_CMHS1_09
LIM Blue_TCH_NB

Spurious Emission ETS300328

SPURIOUS EMISSIONS RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX on 2402 MHz
Test Site: 7Layers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Comment: Horizontal antenna polarisation
Horizontal EUT position

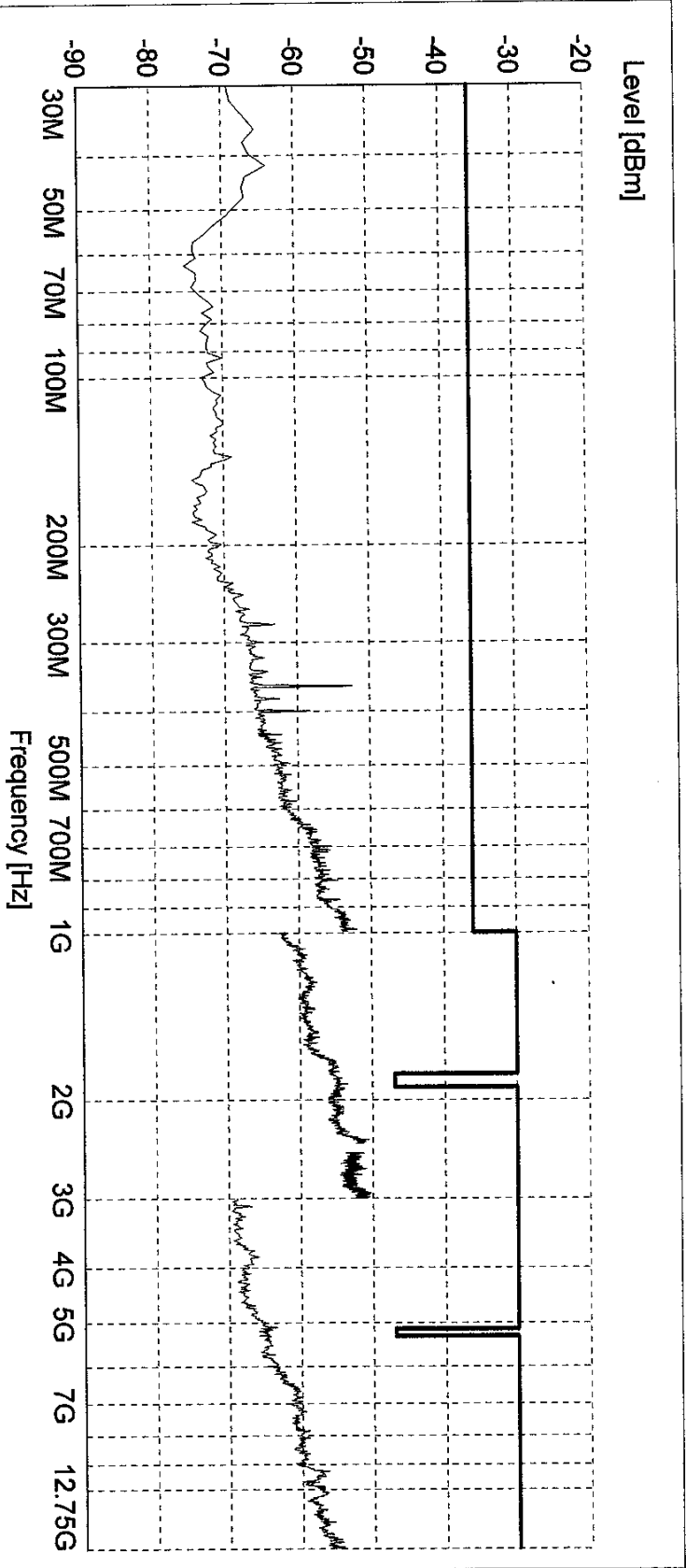
Marker: 7.200901804 GHz -48.52 dBm



MES 4_CMHS1_12
LIM Blue_TCH_NB
Spurious Emission ETS300328

SPURIOUS EMISSIONS RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX on 2480 MHz
Test Site: 7layers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Comment: Horizontal antenna polarisation
Horizontal EUT position

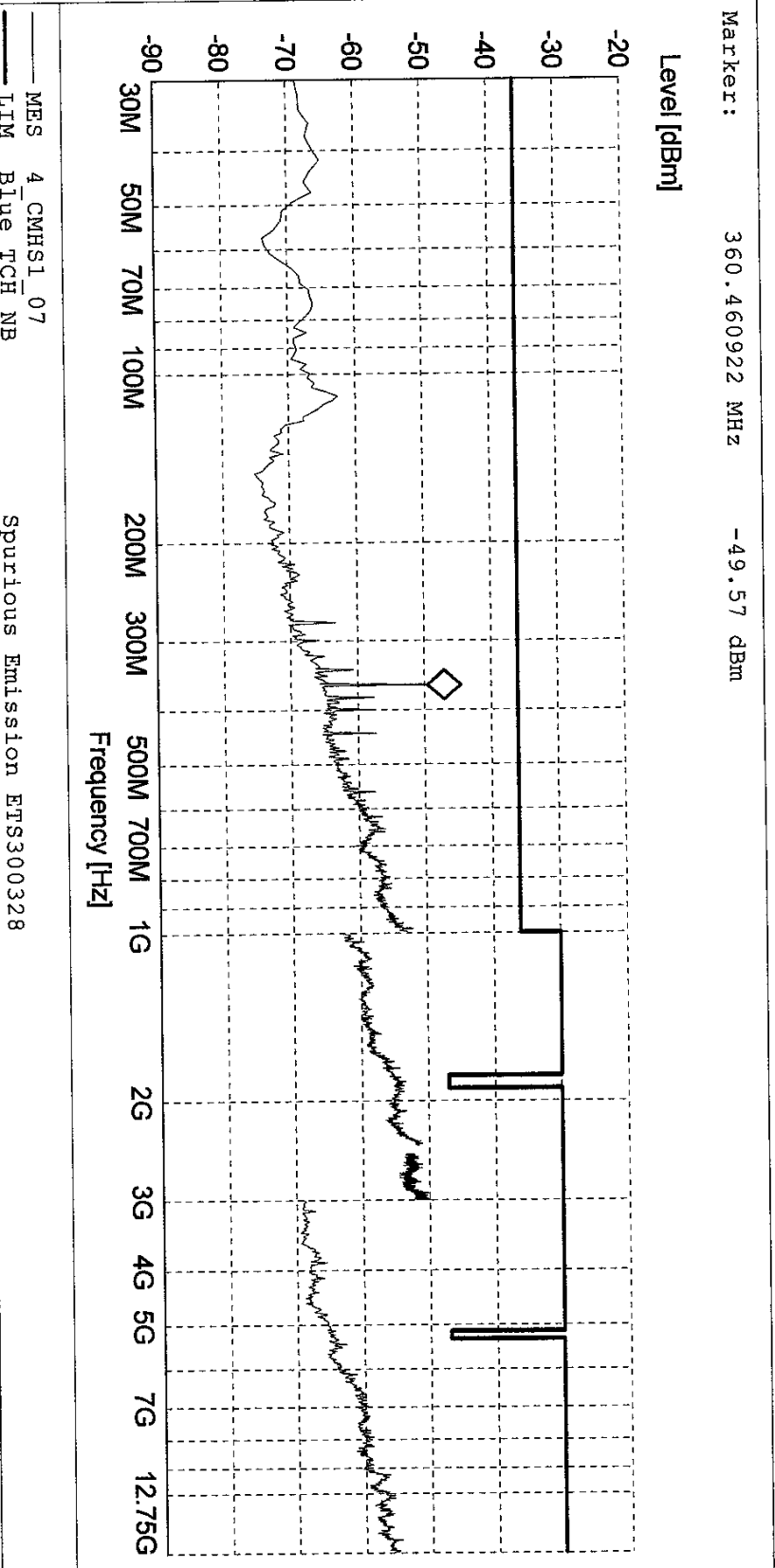


MES 4_CMHS1_08
LIM Blue_TCH_NB
Spurious Emission ETS300328

SPURIOUS EMISSIONS RADIATED

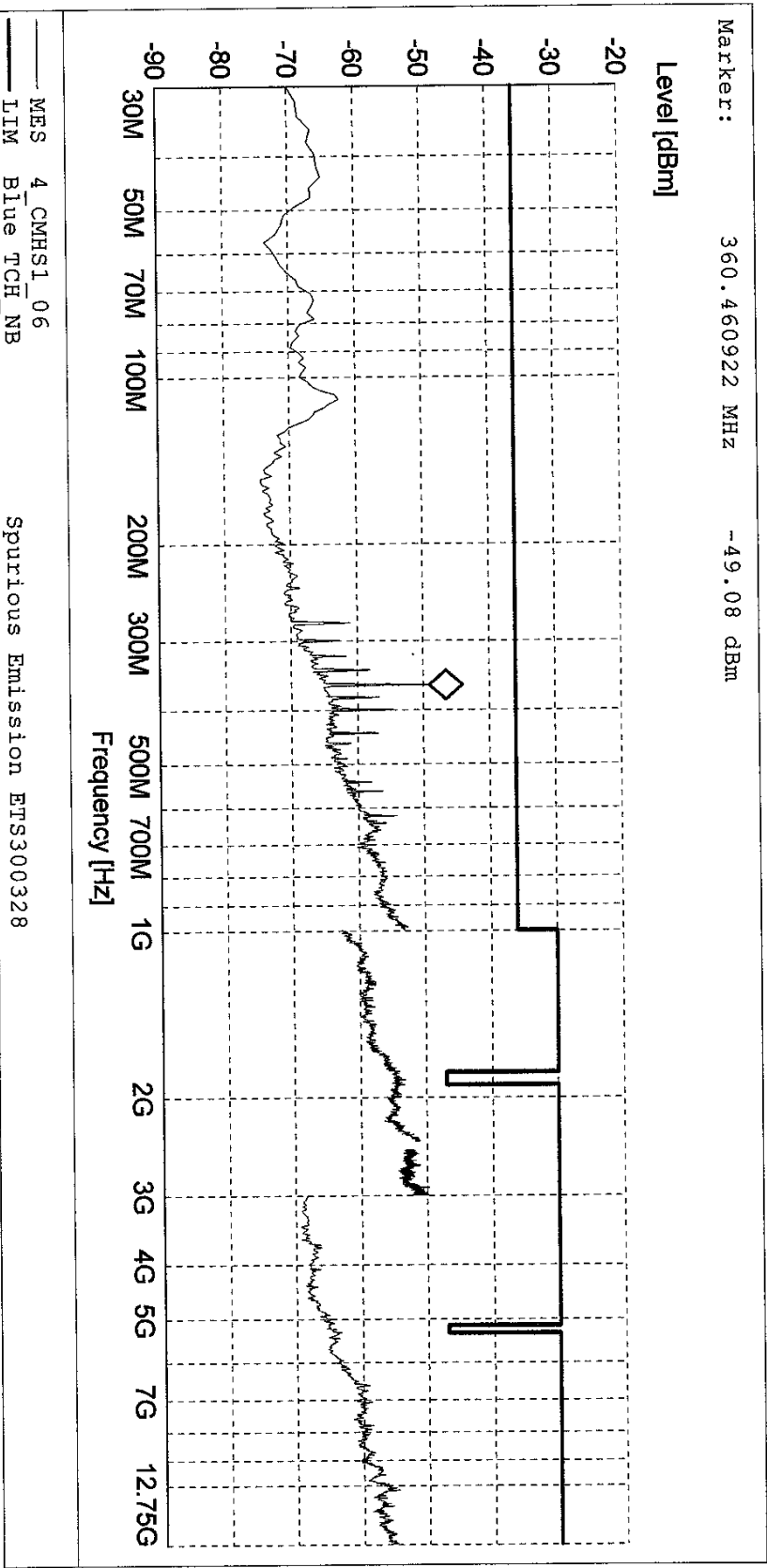
EUT: CMH51 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX on 2480 MHz
Test Site: 7Layers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Comment: Vertical antenna polarisation
Horizontal EUT position

Marker: 360.460922 MHz -49.57 dBm



SPURIOUS EMISSIONS RADIATED

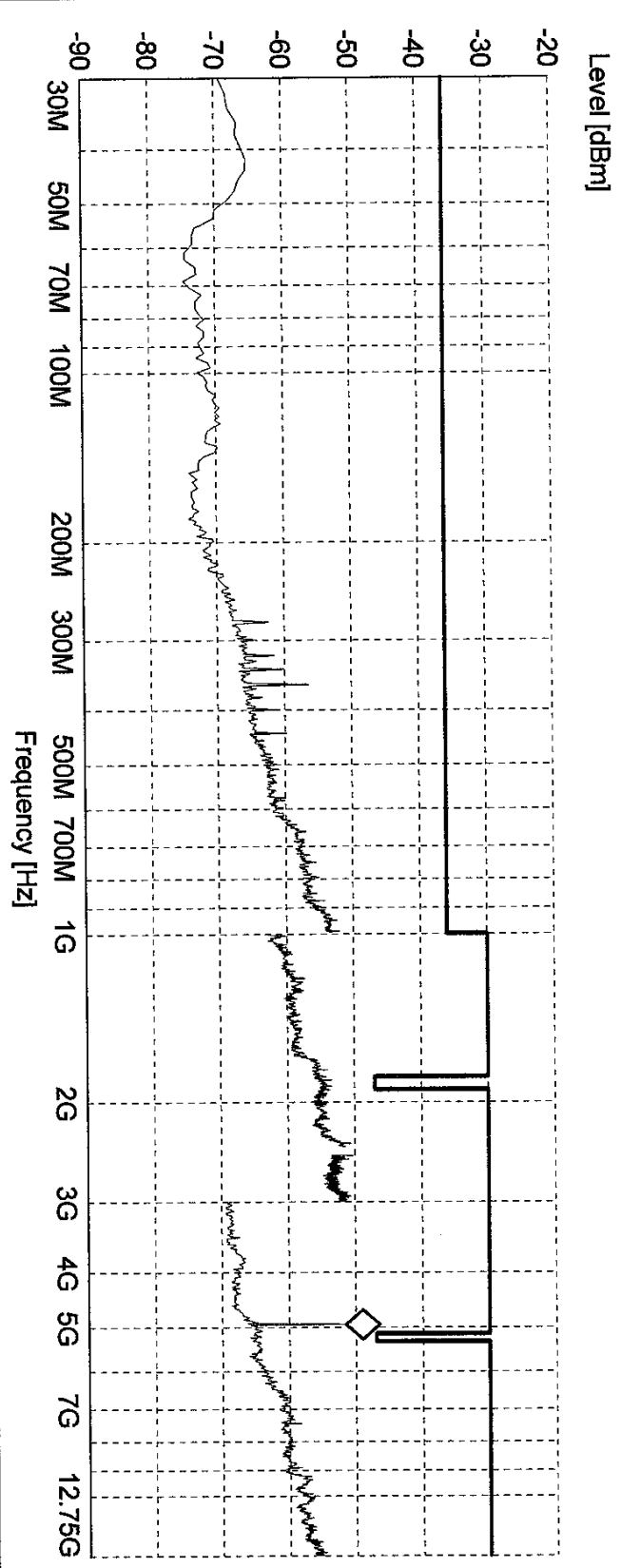
EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plectek
Operating Condition: TX on 2480 MHz
Test Site: 7Layers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Comment: Vertical antenna polarisation
Vertical EUT position



SPURIOUS EMISSIONS RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX on 2480 MHz
Test Site: Tlayers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Comment: Horizontal antenna polarisation
Vertical EUT position

Marker: 4.953907816 GHz -51.53 dBm

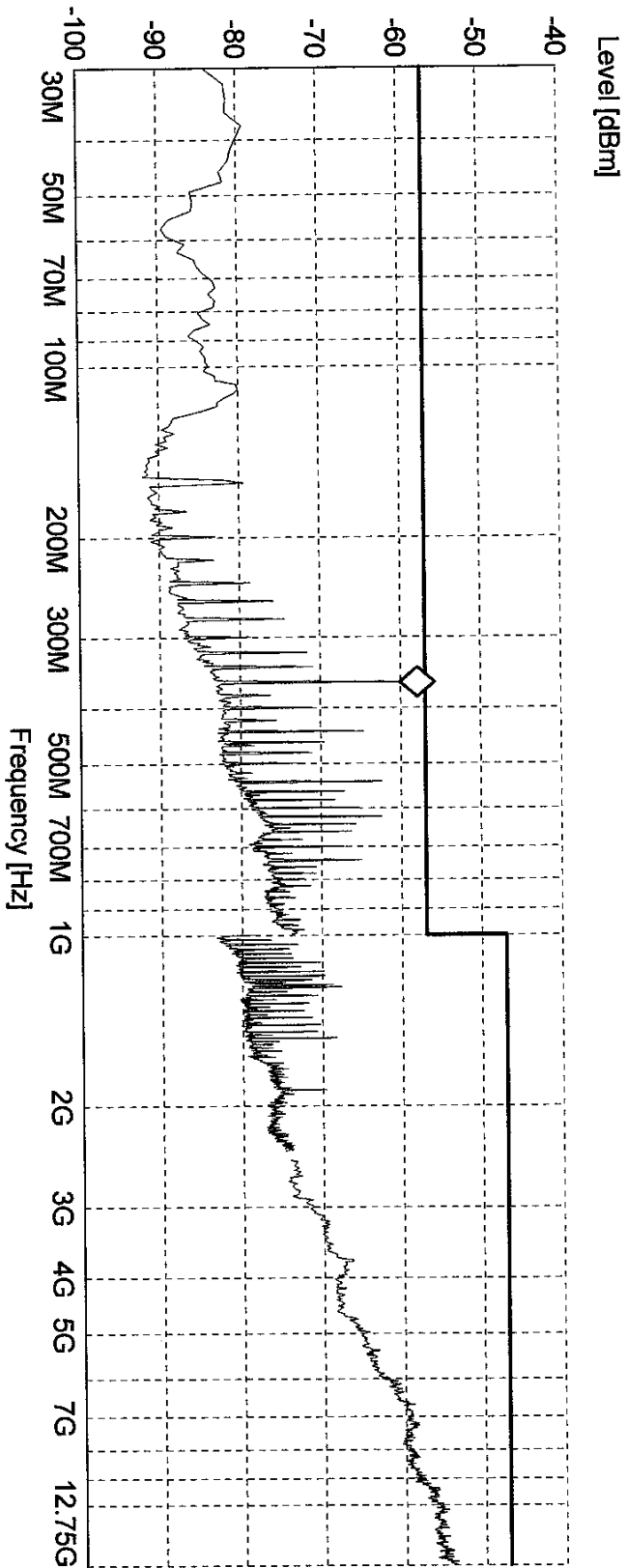


MES 4_CMHS1_05
LIM Blue_TCH_NB
Spurious Emission ETS300328

SPURIOUS EMISSIONS RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX standby, RX on
Test Site: 7Layers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Comment: Vertical antenna polarisation
Vertical EUT position

Marker: 360.460922 MHz -60.07 dBm

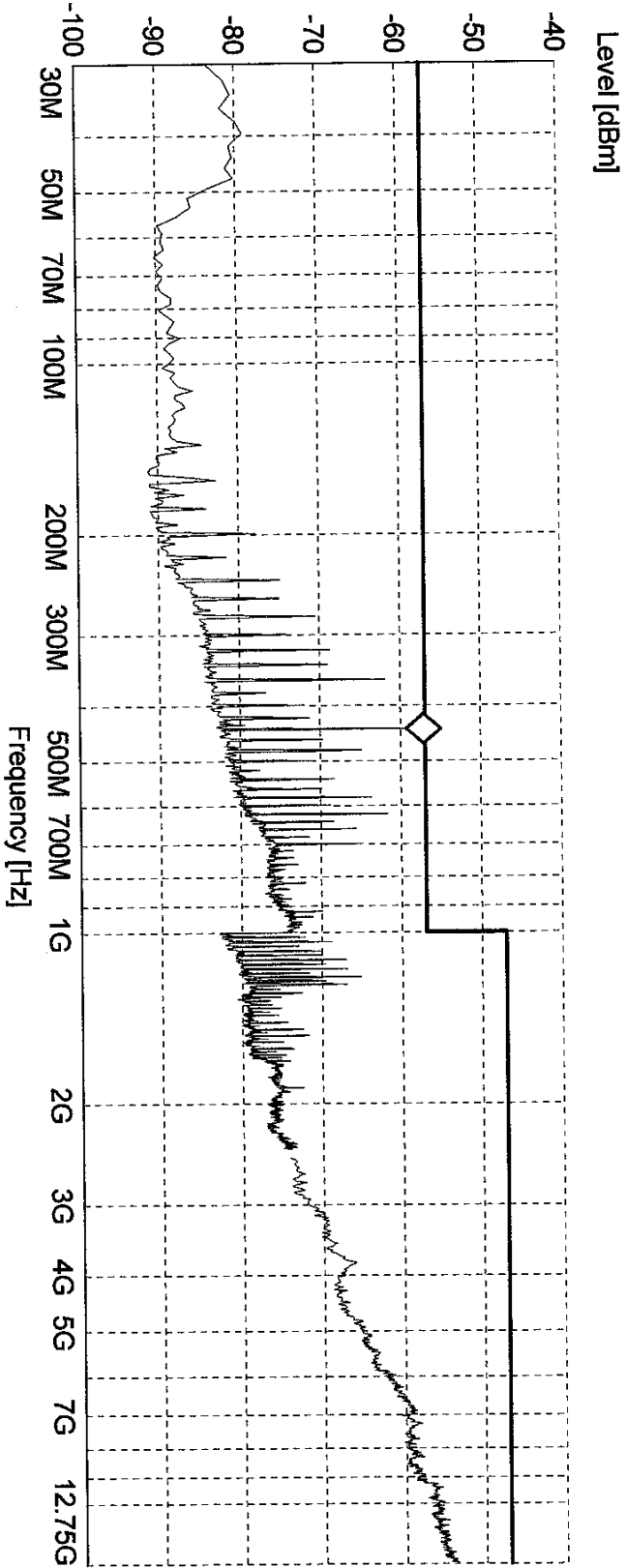


MES 4 CMHS1_16
LIM Blue_IDLE_NB
Spurious Emission ETS300328

SPURIOUS EMISSIONS RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX standby, RX on
Test Site: 7layers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Comment: Horizontal antenna polarisation
Vertical EUT position

Marker: 440.160321 MHz -59.31 dBm

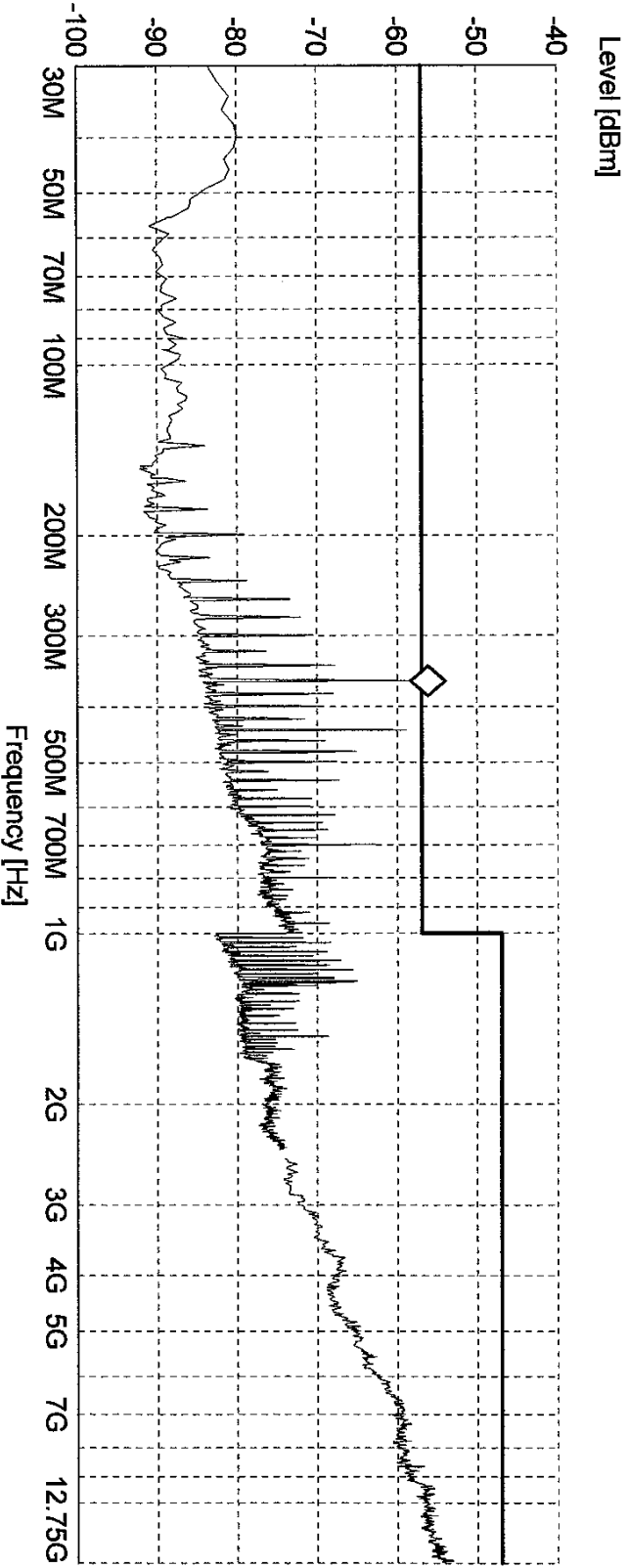


MES 4 CMHS1 15
LIM Blue_IDIE_NB
Spurious Emission ETS300328

SPURIOUS EMISSIONS RADIATED

EUT: CMHS1 (03100b01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX standby, RX on
Test Site: 7layers, Ratingen
Operator: MAC
Test Specification: ETS 300 328
Comment: Horizontal antenna polarisation
Horizontal EUT position

Marker: 360.460922 MHz -58.33 dBm

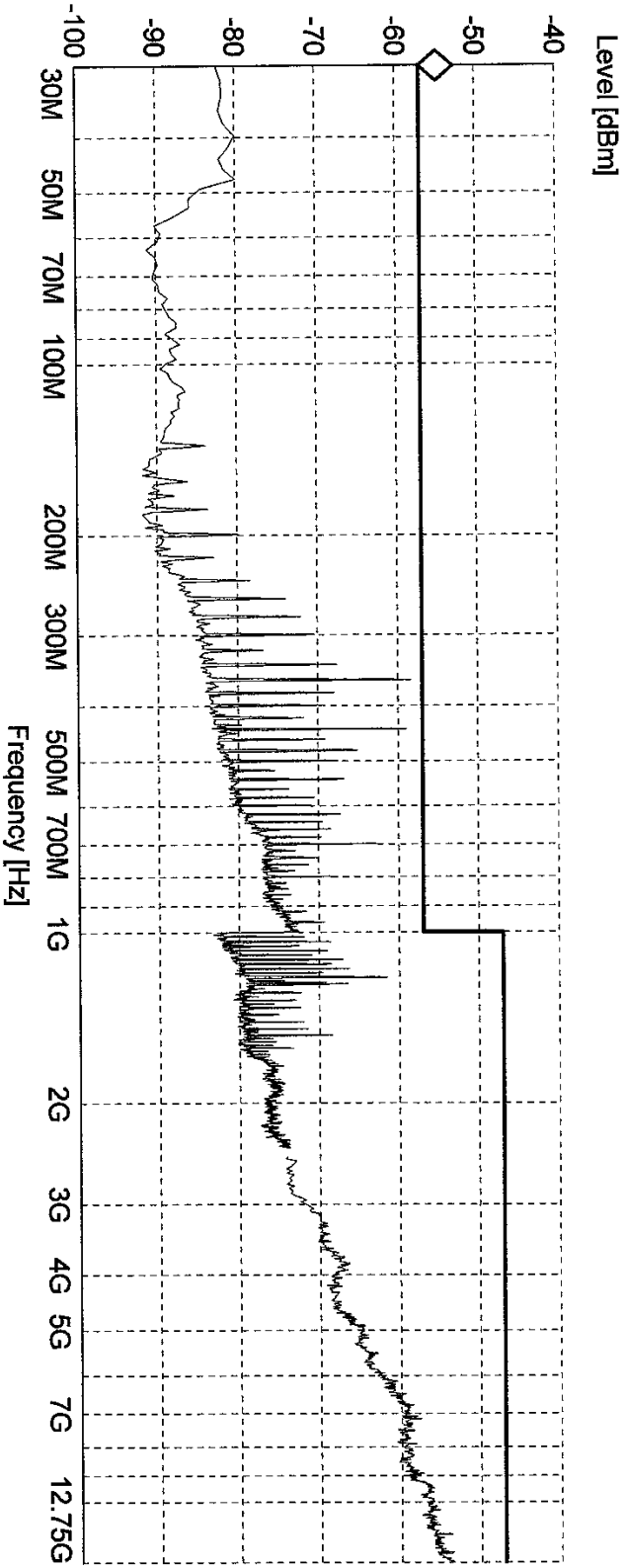


MES 4_CMHS1_14
LIM Blue_IDLE_NB
Spurious Emission ETS300328

SPURIOUS EMISSIONS RADIATED

EUT: CMHS1 (03100B01) / 12.08.2002
Manufacturer: Plextek
Operating Condition: TX standby, RX on
Test Site: 7Layers, Ratingen
Operator: TAP
Test Specification: ETS 300328
Comment: Vertical antenna polarisation
Horizontal EUT position

Marker: 30 MHz -57 dBm



MES 4 CMHS1 13
LIM Blue_IDLE_NB
Spurious Emission ETS300328

```

=====
ROMP & SCHWABZ Certific. Bluetooth Test System T9860 SW Version: 01.24
Program Name: cc_allSensitivity Program Revision: 1111
Receiver Sensitivity Testrun

Test Case started: 2002-08-17, 21:24:42 (T9860)
Report File: ./dat/03100d01/03100d01_wm.rpt
Operator's account name: t9860
Global Parameter Settings:

Wait On Compare : No
Wait On FAIL : No
Abort On FAIL : No
Skip Manual Intervention : No
Pilot Disabled after Program Run : No
Idle Enabled : No
Short Mode : No
Force Mode : No
Part : 1

Starting Program cc_allSensitivity
=====

```

```

Starting TC Sensitivity - Single Slot Packets (RCV/CV/CI)
=====
Test Specification REF: 0.91
=====

```

```

EUT connected for Measurement and Signaling at: SBCV-Port MEASUREMENT EUT COMP.
=====
Next measurement will be running with the following EUT parameters:
=====

```

```

Manufacturer: Clatison
Model: Headset
Serial No: P1031
Comment: SW Status: FREQD_83
SN: Status: 217_NCD2_hel_lv1_k_1.56
Configuration: 403
S/N: P1031
Operator: Hoc

Setup mode: Final Testing
Test Mode Handle: Every Parameter Set
Country: All
Power: 40
Host Connection Request: No
EUT Address: 0050c215a02f hex
Access Code from EUT: 403
Access Code from SU: ADFPC59AE241120D5_hux
Connection Poll Period: 4
Connection Page No: 3000
Power Control: Not supported
Add. Transmission (Receive): 0.000 db
Add. Transmission (Transmit): 0.000 db
DRP measurement: System Volt
DRP measurement: 5.500 Volt
Voltage Value 1: 5.500 Volt
Voltage Value 2: 21.000 Deg C
Temperature: 21.000 Deg C

Next measurement will be running with the following parameters:
=====
Voltage: Middle
Temperature: Middle
Power Mode: Not Controlled
=====

```

```

Measurement: Conducted
EUT Test Mode: Loopback
BI Signal Packet Type: DM1
BI Signal Packet: P988 9
DRP Measurement: -70.000 dbm
BI Signaling Level: 1600000
BER Number of Bits: 0.100
BER Limit: 4

Operator Intervention start at 2002-08-17, 21:24:52
Please prepare the EUT for Test Mode Activation
Intervention Type: Please prepare the EUT for Test Mode Activation
Operator Intervention end at 2002-08-17, 21:24:53
TX-FREQ RX-FREQ Bit Error Rate LIMIT VERNOICF
[MHz] [MHz] [%]
2480.0 2402.0 0.000 <= 0.100 PASS
=====
All selected Sensitivity - Single Slot Packets tests are completed
=====
Duration 00:01:17
Final Test Case verdict: PASS
Report file closed at 2002-08-17, 21:26:30
=====

```

```

*****
MODE & SCHEME: Cellular, Bluetooth Test System TSB950 SW Version: 01.24
Program name: tc_AllSensitivity program revision: 1.11
Receiver Sensitivity TestDone
*****

```

```

Test Case started: 2002-08-17, 21:42:08 (TSB950R)
Report File: ..\data\0100a01\0100a01_rpt.rpt
Operator's account name: ts9860
*****
Global Parameter Settings:
*****

```

```

Wait On Compare : No
Wait On CURSIDE : No
Abort On Fail : No
Skip Manual Interventions : No
Power On Delay : No
Remove Pacer After Program Run : No
Info Enabled : No
Short Mode : No
Force Mode : No
Test : 1
*****

```

```

Starting program tc_AllSensitivity
*****
TC Sensitivity - Single Slot Packets NPC Check
*****

```

```

Test Specification RF: 0.91
*****

```

```

EIRP connected for Measurement and Signalling at: SECU-PORT: HERSUBENRF BUR CORR
*****
Next measurement will be running with the following EIRP parameters:
*****

```

```

Manufacturer: Clarion
Model: Headset
Serial No: F7031
HW Status: 28F0C3_03
Comment:
Configuration: ad1
S/N: F1031
Operator: hbf
*****

```

```

Setup mode: Final Testing
Test Mode Handle: Every Parameter Set
Country: All
Host Connection Request: No
EUT Address: 0050C315A02F hex
Tester Address: 00801722091 hex
Active Member Address: 0080107 hex
Access Code from SUI: 00801722091 hex
Access Code from SUI: A081C69E24112095 hex
Connection Poll Period: 4 Time Slots
Connection Page No: 9000
Power Control: Settling Delay: Not supported
Add. Transmission (Receive): 0.000 dB
Add. Transmission (Transmit): 0.000 dB
DRX measurement: System Volt
DRX measurement: System Volt
Voltage Value 1: 5.500 Volt
Voltage Value 2: 23.000 Dmg C
Temperature:
*****

```

```

Next measurement will be running with the following parameters:
*****
Voltage: Middle
Temperature: Middle
Power Mode: Not controlled
*****

```

```

Measurement: Conducted
EIRP Test Mode: Loopback
BI Signal Packet Type: PMS 9
BI Signal Packet: Yes
Mileaming: Yes
BI Signalling Level: -70.000 dbm
BER Number of Bits: 1000000
BER Limit: 0.100
*****

```

```

Operator intervention start at 2002-08-17, 21:42:17
Please prepare the EIRP for Test Mode Activation
Intervention type: PMS 9
TX-FREQ 8X-FREQ Bit Error Rate LIMIT VERBICT
IMR21 IMR21 131 131
2402.0 2480.0 0.000 0.100 PASS
*****

```

```

All selected Sensitivity - Single Slot Packets tests are completed
*****
# Duration 00:01:36
# Final Test Case verdict: PASS
# Report file closed at 2002-08-17, 21:43:44
*****

```

```

=====
* HOME & SCHWARZ Certified Bluetooth test System T88960 SW Version: 01.24
* Program name: cc_A11Sensitivity
* Receiver sensitivity Testcase
* Program revision: 1.11
=====

```

```

-----
Report Case started: 2002-08-17 21:52:01 (T88960R1)
Report File: ../dat/0100601/0100601.smm.rpt
Operator's account name: T88960
Global Parameter Settings:
-----

```

```

-----
Wait On Complete : No
Abort On Fail : No
Skip Manual Interventions : No
Pilot Disabled : No
Hic Enable : No
Shoot Mode : No
Force Mode : No
Pact : 1
-----

```

Starting program cc_A11Sensitivity

TC Sensitivity - Single Slot Packets RFC Check

```

-----
Starting TC Sensitivity - Single Slot Packets RFC/CN/Q1/C1
-----
Test Specification RF: 0.31
-----

```

EUT connected for Measurement and Signaling at: SECU-PORT (MSB)PROGRAM DPM COMP

Next measurement will be running with the following EUT parameters:

```

Manufacturer: Clarton
Model: 9100
EUT Address: 00000007
Comment: SW Status: 272 BC02x_hel_iv_1k_1.56
Configuration: 901
S/N: F1031
Operator: Hof

```

```

Secure mode: Final Testing
Country: All
Pseudo Whitening: On
Host Connection Request: No
EUT Address: 0000015405F hex
Active Member Address: 00000007 hex
Access Code from EUT: ANOPIC69A241120D5 hex
Connection Page TO: 9000
Test Parameter Setting Delay: 100 ms
Power Control: Not supported
Transmission (Receive): 0.000 dB
Add. Transmission (Transmit): 0.000 dB
BER measurement System: 5.560 Volt
Voltage Value 1: 5.500 Volt
Voltage Value 2: 21.000 Dog C
Temperature:

```

Next measurement will be running with the following parameters:

```

Voltage: Middle
Temperature: Middle
Power Mode: Not Controlled

```

```

=====
Measurement: Conducted
BI Signal Packet Type: DUT Packet
BI Signal Pattern: PRSS 9
Whitening: Long Level: Yes 0.00 dBm
BER Number of Files: 160000
BER Limit: 0.100 %
=====

```

```

-----
Operator Intervention start at 2002-08-17 21:52:10
Intervention Type: 'Please prepare the EUT for Test Mode Activation'
Operator Intervention end at 2002-08-17 21:52:11
-----
Pilot Power: 0.000 dBm
Pact: 1
Pact Error Rate: 0.000 %
Pact Error Rate Limit: 0.100 %
-----

```

```

-----
All selected sensitivity - Single Slot Packets tests are completed
-----

```

```

-----
Wait On Complete: PASS
Final Test Case verdict: PASS
Report file closed at 2002-08-17 21:53:38
-----

```


Receiver Sensitivity Testcase
Program Name: TC_AllSensitivity
Program Revision: 1.11

Test Case started: 2002-08-18 01:08:47 (TS9960N)
Report File: ../dat/03100401/03100401_fm.rpt
Run File: 03100401
Operator's account name: k89860

Global Parameter Settings:
Wait On Compare : No
Wait On OUTSIDE : No
Wait On FAIL : No
Abort On FAIL : No
Skip Manual Interventions : No
Pilot Disabled : No
Info Enabled : No
Short Mode : No
Force Mode : No
Perc : 1

Starting program re.AllSensitivity
TC Sensitivity - Single Slot Packets RPC Check

Starting TC Sensitivity - Single Slot Packets (RCV/GN/01/C)
Test Specification RF: 0.91

EUT connected for Measurement and Signalling at: S800-Port 'MEASUREMENT EUT CONO'
Next measurement will be running with the following EUT parameters:

Manufacturer: Clarion
Model: Heddac
Serial No: P1031
HW Status: P1P0C03
SW Status: 272 RC02K_Incl_V1_Lk_3.56
Configuration: 401
SN: P1031
Operator: H0f

Setup mode: Final Testing
Test Mode Handle: Every Parameter Set
Country: All
Pseudo Whlteing: On
Host Connection Request: No
EUT Address: 0050C215A02F hex
Terac Address: 00803712091 hex
Access Code from EUT: AF0FC59AE241120D5 hex
Access Code from SU: AF0FC59AE241120D5 hex
Connection Page 20: 4
Connection Page 21: 9000
Power Control: Not supported
Add. Transmission (Transmit): 0.000 dB
Vlt measurement: 5.500 Volt
Voltage Value 1: 5.500 Volt
Voltage Value 2: -20.000 Dog C

Next measurement will be running with the following parameters:
Temperature: Low
Voltage: Low

Measurement: Conducted
EUT Test Mode: Loopback
E1 Signal Packet Type: Erl 9
Whlteing Packet: Yes
M1 Signalling Level: -70.000 dbm
BER Number of Bits: 1600000
BER limit: 0.000

Operator intervention start at 2002-08-18 01:08:46
Report File: ../dat/03100401/03100401_fm.rpt
Run File: 03100401
Operator's account name: k89860

Global Parameter Settings:
Wait On Compare : No
Wait On OUTSIDE : No
Wait On FAIL : No
Abort On FAIL : No
Skip Manual Interventions : No
Pilot Disabled : No
Info Enabled : No
Short Mode : No
Force Mode : No
Perc : 1

Starting program re.AllSensitivity
TC Sensitivity - Single Slot Packets RPC Check

Starting TC Sensitivity - Single Slot Packets (RCV/GN/01/C)
Test Specification RF: 0.91

EUT connected for Measurement and Signalling at: S800-Port 'MEASUREMENT EUT CONO'
Next measurement will be running with the following EUT parameters:

Manufacturer: Clarion
Model: Heddac
Serial No: P1031
HW Status: P1P0C03
SW Status: 272 RC02K_Incl_V1_Lk_3.56
Configuration: 401
SN: P1031
Operator: H0f

Setup mode: Final Testing
Test Mode Handle: Every Parameter Set
Country: All
Pseudo Whlteing: On
Host Connection Request: No
EUT Address: 0050C215A02F hex
Terac Address: 00803712091 hex
Access Code from EUT: AF0FC59AE241120D5 hex
Access Code from SU: AF0FC59AE241120D5 hex
Connection Page 20: 4
Connection Page 21: 9000
Power Control: Not supported
Add. Transmission (Transmit): 0.000 dB
Vlt measurement: 5.500 Volt
Voltage Value 1: 5.500 Volt
Voltage Value 2: -20.000 Dog C

19/09/2002

o.k. [Signature]

BER measurement: System
Voltage Value 1: 5.500 Volt
Voltage Value 2: 5.500 Volt
Temperature: -30.000 Deg C

Next measurement will be running with the following parameters:
Unlatch: Low
Temperature: Low
Power Mode: Not Controlled
Measurement: Conducted
BER Test Mode: Conducted
BER Test Mode: Conducted
BI Signal Pattern: PMS 9
Whitening: Yes
BI Signaling Level: -70.000 dBm
BER Limit: 0.100 %

Operator Intervention start at 2003-08-18 01:12:25
Please prepare the BER for Test Mode Activation
Operator Intervention end at 2003-08-18 01:12:27
TX-FREQ RX-FREQ Bit Error Rate LIMIT YMDICT
2480.0 2402.0 0.000 <= 0.100 PMS5

All selected Sensitivity - Simple Slot Packets tests are completed
Duration 00:01:35
Final Test Case verdict: PASS
Operator Intervention start at 2003-08-18 01:13:52


```

=====
PROGRAM 4 SCHMIDTZ Scientific Diagnostics Test System 258950 SW Version: D1.24
=====
Program name: EC>AllSensitivity program revision: 1.11
Receiver Sensitivity Testcase
=====

```

```

=====
Run Date: 2002-08-17 21:48:58 (TS090001)
Run File: 03100001
Operator's account name: ts8960
=====
Global Parameter Settings:
=====

```

```

Wait on Compare : No
Wait on OVSIDE : No
Wait on FAIL : No
Skip Manual Interventions : No
Plot Disabled : No
Remove plots after Program Run : No
Shut Down : No
Force Mode : No
Part : 1
=====

```

Starting program EC>AllSensitivity

TC Sensitivity - Single Slot Packets HPC Check

Starting TC Sensitivity - Single Slot Packets (HW/CV/DV/C)

Test Specification R# 0 91

RFV connected for Measurement and Signaling at: SBCU Port WEAUSERSBVF DUT COMP

Next measurement will be running with the following RFV parameters:

```

Manufacturer: Clation
Model: F1031
Serial No: F1031
Comment: SW Status: 272 BCO2K_hcl_lv1_1k_1.56
Configuration: a01
S/N: F1031
Operator: jof

Setup mode: Final Testing
Test Mode Handle: Every Parameter Set
Fused? Challenging: On
Host Connection Request: No
RFV Address: 0050C215A03F hex
RFV Address: 00001712A991 hex
Access Code from SW: AP0P1C69A824112005 hex
Access Code from DUT: AP0P1C69A824112005 hex
Connection Port Period: 4000
Test Parameter Setting Delay: 100 ms
Power Control: Not supported
Add. Transmission (Receive): 0.000 dB
Add. Transmission (Transmit): 0.000 dB
Voltage Value 1: 5.500 Volt
Voltage Value 2: 80.000 Deg C
Temperature:
=====
Next measurement will be running with the following parameters:
=====
Voltage: High
Temperature: High
Power Mode: Not Controlled
=====

```

```

Measurement: Conducted
Signal Type: PRBS 9
Signal Pattern: PRBS 9
Whitening: Yes
Smoothing Level: 0.000 dB
BER Limit: 1.0000
BER Limit: 0.100
=====

```

```

Operator Intervention start at 2002-08-17 21:49:03
Operator Intervention end at 2002-08-17 21:49:04
Operator Intervention Type: Please provide the Error Mode Activation
Operator Intervention end at 2002-08-17 21:49:04
TX-FREQ Hz-FREQ Bit Error Rate LIMIT VERDICT
2402.0 2480.0 0.000 <= 0.100 PASS
=====

```

```

All selected Sensitivity - Single Slot Packets tests are completed
Duration 00:01:36
Report File closed at 2002-08-17, 21:50:30
=====

```

