TEST REPORT NO: RU1109/5632

COPY NO: ----------

ISSUE NO: 2

REPORT ON THE RADIO PERFORMANCE TESTING OF A
TELEX COMMUNICATIONS Inc.
Electro-Voice Model HTU2 A Handheld Wireless Microphone
WITH RESPECT TO
ETSI EN300 422-2 08/2000 SPECIFICATION

TEST DATE: 20th May 2004 – 15th June 2004

TESTED BY: JOHN CHARTERS (Signature Not Verified) Digitally signed by JOHN CHARTERS DN: cn=JOHN CHARTERS, o=TRL COMPLIANCE SERVICES, c=US Date: 2004.10.27 14:29:36 +01'00' ---------- J CHARTERS

APPROVED BY: Peter Green (Signature Not Verified) Digitally signed by Peter Green DN: cn=Peter Green, o=TRL Compliance Services, c=GB Date: 2004.10.27 13:43:15 Z ---------- P GREEN
EMC PRODUCT MANAGER

DATE: 27/10/04 ----------

Distribution:

Copy Nos: 1. TELEX COMMUNICATIONS Inc.

2. TRL Compliance Services Ltd

TRL COMPLIANCE SERVICES LTD EMC DIVISION
LONG GREEN FORTHAMPTON GLOUCESTER GL19 4QH UNITED KINGDOM
TELEPHONE +44 (0)1684 833818 FAX +44 (0)1684 833858
E-MAIL test@trlcompliance.com www.trlcompliance.com

FS 21805

CONTENTS

Notes:

1. Component failure during test: YES [ ] NO [X]
2. If Yes, details of failure:
3. All measurement uncertainty calculations detailed in this report are carried out in accordance with ETR 028 (4), corresponding to an expansion factor k = 1.96 providing for a 95% confidence level.
4. The contents of the attached applicants declarations and other supplied information are not covered by the scope of this laboratory's UKAS or FCC accreditations' and is provided in good faith.

CERTIFICATE OF CONFORMITY & COMPLIANCE

PURPOSE OF TEST:	Radio Performance Testing				
TEST SPECIFICATION(s):	ETSI EN300 422-2 08/2000				
TEST RESULT:	Compliant to Specification				
EQUIPMENT UNDER TEST:	Electro-Voice Model HTU2 A Handheld Wireless Microphone				
EQUIPMENT SERIAL No:	2230				
BAND(s) OF OPERATION:	648.1 MHz – 675.9 MHz (Band A)				
ITU: EMISSION CODE(s):	200KF3E				
EQUIPMENT TYPE:	Radio Microphone				
EQUIPMENT USE:	Studio and Outside Broadcast Communications				
TRANSMITTER Pnom:	19.05mW				
ANTENNA TYPE:	Integral				
CHANNEL BANDWIDTH:	200kHz				
FREQUENCY GENERATION:	SAW Resonator	[ ]	Crystal	[ ]	Synthesiser [X]
MODULATION METHOD:	Amplitude	[ ]	Digital	[ ]	Angle [X]
POWER SOURCE(s):	+9.0Vdc				
TEST DATE(s):	20th May 2004 – 15th June 2004				
ORDER No(s):	296609				
APPLICANT:	TELEX COMMUNICATIONS Inc.				

TESTED BY: JOHN CHARTERS — Signature Not Verified — Digitally signed by JOHN CHARTERS DN: cn=JOHN CHARTERS, o=TRL COMPLIANCE SERVICES, c=US Date: 2004.10.27 14:29:58 +01'00' — J CHARTERS

APPROVED BY: Peter Green — Signature Not Verified — Digitally signed by Peter Green DN: cn=Peter Green, o=TRL Compliance Services, c=GB Date: 2004.10.27 13:41:57Z — P GREEN EMC PRODUCT MANAGER

APPLICANT'S SUMMARY

EQUIPMENT UNDER TEST (EUT):	Electro-Voice Model HTU2 A Handheld Wireless Microphone
EQUIPMENT TYPE:	Radio Microphone
SERIAL NUMBER(s) OF EUT:	2230
PURPOSE OF TEST:	Radio Performance Testing
TEST SPECIFICATION(s):	ETSI EN300 422-2 08/2000
TEST RESULT:	COMPLIANT Yes [X] No [ ]
APPLICANT'S CATEGORY:	MANUFACTURER [X] IMPORTER [ ] DISTRIBUTOR [ ] TEST HOUSE [ ] AGENT [ ]
APPLICANT'S ORDER No(s):	296609
APPLICANT'S CONTACT PERSON(s):	Mr Charles Conner
APPLICANT:	TELEX COMMUNICATIONS Inc.
ADDRESS:	8601 East Cornhusker Highway Lincoln, NE 68505
TEL:	+01 402-467-5321
FAX:	+01 402-467-3279
MANUFACTURER:	TELEX COMMUNICATIONS Inc.
EUT(s) COUNTRY OF ORIGIN:	United States
TEST LABORATORY:	TRL EMC
TEST DATE(s)	20th May 2004 – 15th June 2004
TEST REPORT No:	RU1109/5632

EQUIPMENT TEST CONDITIONS

1.

EQUIPMENT SERIAL / MODEL IDENTITY	CHANNEL NUMBER	Tx NOMINAL FREQUENCY MHz	Rx NOMINAL FREQUENCY MHz	REMARKS
HTU2 A	Low Mid High	648.1 662.0 675.9	N/A	Full testing required on frequencies within 100kHz of the top, middle and bottom of the tuneable range

2. Equipment Category:

Category 1	(General)	[ ]
Category 2	(Portable)	[X]
Category 3	(Normal Indoor Use)	[ ]

3. Alignment Range Category:

AR1	[ ]
AR2	[X]

4. Supply Voltages:

(Tx)	Vnom	=	+9.0Vdc
	Vmin	=	+7.5Vdc
	Vmax	=	+9.0Vcd
(Rx)	Vnom	=	N/A
	Vmin	=	N/A
	Vmax	=	N/A

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

5. Temperatures: (see transmitter category)

Tnom	=	(See test)	
Tmin	=	-20°C	[X]
	=	-10°C	[ ]
	=	0°C	[ ]
Tmax	=	+60°C	[ ]
	=	+55°C	[X]
	=	+40°C	[ ]
	=	+30°C	[ ]

6. Transmitter Maximum Deviation or Shift:	kHz	=	7.40 kHz
7. Transmitter Power Class	Class	=	Class 1
8. Transmitter Duty Cycle	%	=	<100%
9. Receiver Rated Audio Output Power & Impedance:	dBW	=	N/A
	Ohms	=	N/A
10. Necessary Bandwidth:	kHz	=	200kHz

ESSENTIAL RADIO TEST SUITES

TRANSMITTER TEST RESULTS

TRANSMITTER FREQUENCY ERROR

RHnom = 38%

Tx Pnom = 19.05mW

Necessary Bandwidth = 200kHz

Method RTP50 [X]
RTP50A [ ]
RTP70 [ ]

Channel		648.1 MHz	662.0 MHz	675.9 MHz
Tnom 16°C	Vnom	648.09937 MHz	661.99260 MHz	675.89431 MHz
Tmin	Vmin	648.09795 MHz	661.99855 MHz	675.89744 MHz
	Vmax	648.09795 MHz	661.99857 MHz	675.89744 MHz
Tmax	Vmin	648.09330 MHz	661.99307 MHz	675.89294 MHz
	Vmax	648.09324 MHz	661.99305 MHz	675.89294 MHz
Max Frequency Error	Normal	0.63 kHz	7.40 kHz	5.69 kHz
	Extreme	6.70 kHz	7.40 kHz	7.06 kHz
Limits Clause 8.1.3	Normal	Operating Frequency	Channel Bandwidths 100kHz,150kHz,200kHz	Channel Bandwidths 75KHz, 50kHz
		25MHz – 88MHz >88MHz – 300MHz >300MHz – 1000MHz >1GHz – 3GHz	3kHz 7kHz 10kHz 25kHz	2kHz 3kHz 6kHz 14kHz
	Extreme	25MHz – 88MHz >88MHz – 300MHz >300MHz – 1000MHz >1GHz – 3GHz	5kHz 10kHz 15kHz 32kHz	3kHz 5kHz 7kHz 18kHz
Measurement Uncertainty		±2.7 x 10^{-7} Hz [X] ;		±0.0002% ±200Hz [ ]

Test Equipment Used: TRL05, TRL11, TRLUH41, TRLUH177, TRL479
Full description at Annex B:

Remarks:

TRANSMITTER TEST RESULTS

TRANSMITTER CARRIER POWER - CONDUCTED

RHnom = N/A

Tx Pnom = N/A

Power Class = N/A

Method RTP51 [ ]
RTP91 [ ]

Channel				
Tnom 15°C	Vnom	N/A	N/A	N/A
Tmin	Vmin	N/A	N/A	N/A
	Vmax	N/A	N/A	N/A
Tmax	Vmin	N/A	N/A	N/A
	Vmax	N/A	N/A	N/A
Max Relative Power	Normal & Extreme	N/A	N/A	N/A
Limits Clause 8.2.4	Normal & Extreme	50mW maximum power		
Measurement Uncertainty		±0.78dB [ ] ;	±1.5dB [ ]	

Test Equipment Used:
Full description at Annex B

Remarks: **Not applicable. The EUT has an integral antenna.**

TRANSMITTER TEST RESULTS

EFFECTIVE RADIATED POWER

RHnom = 38%

Method RTP68 & 70

Tx Pnom = 19.05mW

Declared power = 23.00mW

Distance = 3m [X]
= 10m [ ]

Polarisation Vertical = [X]
Horizontal = [ ]

Channel		648.1 MHz	662.0 MHz	675.9 MHz
Tnom 16°C	Vnom	19.05mW*	17.4mW*	11.7mW*
Tmin	Vmin	12.30mW#	10.71mW#	9.33mW#
	Vmax	19.95mW#	15.84mW#	14.12mW#
Tmax	Vmin	10.96mW#	7.07mW#	5.89mW#
	Vmax	14.45mW#	11.22mW#	6.45mW#
Max Relative Power	Normal & Declared	-0.82dB	-1.22dB	-2.92dB
Limits Clause 8.2.4	Normal & Extreme	50mW maximum power ±3dB of the declared power limit		
Measurement Uncertainty		±4.2dB *	±1.9dB #	

Test Equipment Used: TRL11, TRL05, TRLUH29, TRLUH28, TRL203, TRL254, TRL177, TRL41, TRL479
Full description at Annex B:

Remarks:

TRANSMITTER TEST RESULTS

TRANSMITTER CHANNEL BANDWIDTH

Tnom = 23°C

RHnom = 50%

Carrier Power = 19.05mW

Method RTP101 [X]
RTP55A [ ]

Channel		648.1 MHz	662.0 MHz	675.9 MHz
EUT Carrier Power		19.05mW	17.4mW	11.7mW
AF Frequency Level @ -8 dB(lin)		-1.5	-2.0	-1.8
AF Frequency Level @ + 12dB(lin)		-0.3	-0.2	-0.1
Necessary Bandwidth		200kHz	200kHz	200kHz
Limits Clause 8.3.3	Channel Separation (kHz)	Fc–1MHz Fc-B Fc-B/2 Fc-0.35 Fc Fc-0.35 Fc+B/2 Fc+B Fc+1MHz		-90dBc -80dBc -60dBc -20dBc 0dBc -20dBc -60dBc -80dBc -90dBc
	50 75 100 150 200			
Measurement Uncertainty		±0.44 dB [X] ;		±1.9 dB [ ]

Test Equipment Used: TRL05, TRL479, TRL122, TRL343, TRLUH196
Full description at Annex B:

Remarks: B = declared channel bandwidth
For spectrum analyser plots of necessary bandwidth see Annex D.

In order for the unit to meet the requirements of this section the following adjustments were made:
The variable resistor VR3 was changed to give the following resistance readings:
The measurement between the pin connecting to R23 and pin connecting to ground =27.8 Ω
The measurement between the pin connecting to R36 and pin connecting to ground = 32.4Ω
The measurement between the pin connecting to R36 and pin connecting to R23 = 38.7Ω

TRANSMITTER TEST RESULTS

TRANSMITTER SPURIOUS EMISSIONS – RADIATED – OPERATING

Tnom = 16°C <1GHz
= 28°C >1GHz

RHnom = 38% <1GHz
= 30% >1GHz

Method RTP69

Channel = 648.1 MHz

Tx Pnom = 19.05mW

Spurious Frequency and Level >25MHz / <1GHz 4nW Bands		No significant emissions within 10dB of the limit	
Spurious Frequency and Level >25MHz / <1GHz 250nW Bands		No significant emissions within 10dB of the limit	
Spurious Frequency and Level >1GHz / <4GHz [ ] >1GHz / <12.75GHz [X] 1µW Bands		3240.5MHz 3888.8MHz 4536.7MHz	776.247nW 400.867nW 506.991nW
Limits Clause 8.4.3		<1000MHz	250nW
		>1000MHz	1µW
Measurement Uncertainty	>5.4GHz	±4.1dB	±1.0kHz
	>5.4GHz	±4.2dB	±1.0kHz

Exterior Measurements: Distance: 10.0 metres <48MHz [ ] 3.0 metres <1GHz [X]

Interior Measurements: Distance: 3.0 metres <48MHz [ ] 0.3 metres <1GHz [X]

Test Equipment Used: TRLUH75, TRLUH163, TRLUH04, TRLUH06, TRLUH28, TRLUH29,
Full description at Annex B: TRL203, TRL139, TRL279, TRLUH120

Remarks: Sensitivities:

>9kHz / <30MHz	=	+36dBµV/m	@3.0m
>30MHz / <1GHz	=	-106dBW erp	@3.0m
>1GHz / <5.4GHz	=	-87dBW eirp	@3.0m
<12.75GHz	=	-80dBW eirp	@3.0m

TRANSMITTER TEST RESULTS

TRANSMITTER SPURIOUS EMISSIONS – RADIATED – OPERATING

Tnom = 16°C <1GHz
= 28°C >1GHz

RHnom = 38% <1GHz
= 30% >1GHz

Method RTP69

Channel = 662.0 MHz

Tx Pnom = 19.05mW

Spurious Frequency and Level >25MHz / <1GHz 4nW Bands		No significant emissions within 10dB of the limit	
Spurious Frequency and Level >25MHz / <1GHz 250nW Bands		No significant emissions within 10dB of the limit	
Spurious Frequency and Level >1GHz / <4GHz [ ] >1GHz / <12.75GHz [X] 1µW Bands		3310.0 MHz 3972.0 MHz 4634.0 MHz	437.552nW 135.831nW 192.752nW
Limits Clause 8.4.3		<1000MHz	250nW
		>1000MHz	1µW
Measurement Uncertainty	>5.4GHz	±4.1dB	±1.0kHz
	>5.4GHz	±4.2dB	±1.0kHz

Exterior Measurements: Distance: 10.0 metres <48MHz [ ] 3.0 metres <1GHz [X]

Interior Measurements: Distance: 3.0 metres <48MHz [ ] 0.3 metres <1GHz [X]

Test Equipment Used: TRLUH75, TRLUH163, TRLUH04, TRLUH06, TRLUH28, TRLUH29,
Full description at Annex B: TRL203, TRL139, TRL279, TRLUH120

Remarks: Sensitivities:

>9kHz / <30MHz	=	+36dBµV/m	@3.0m
>30MHz / <1GHz	=	-106dBW erp	@3.0m
>1GHz / <5.4GHz	=	-87dBW eirp	@3.0m
<12.75GHz	=	-80dBW eirp	@3.0m

TRANSMITTER TEST RESULTS

TRANSMITTER SPURIOUS EMISSIONS – RADIATED – OPERATING

Tnom = 16°C <1GHz
= 28°C >1GHz

RHnom = 38% <1GHz
= 30% >1GHz

Method RTP69

Channel = 675.9 MHz

Tx Pnom = 19.05mW

Spurious Frequency and Level >25MHz / <1GHz 4nW Bands		No significant emissions within 10dB of the limit	
Spurious Frequency and Level >25MHz / <1GHz 250nW Bands		No significant emissions within 10dB of the limit	
Spurious Frequency and Level >1GHz / <4GHz [ ] >1GHz / <12.75GHz [X] 1µW Bands		No significant emissions within 10dB of the limit	
Limits Clause 8.4.3		<1000MHz	250nW
		>1000MHz	1µW
Measurement Uncertainty	>5.4GHz	±4.1dB	±1.0kHz
	>5.4GHz	±4.2dB	±1.0kHz

Exterior Measurements: Distance: 10.0 metres <48MHz [ ] 3.0 metres <1GHz [X]

Interior Measurements: Distance: 3.0 metres <48MHz [ ] 0.3 metres <1GHz [X]

Test Equipment Used: TRLUH75, TRLUH163, TRLUH04, TRLUH06, TRLUH28, TRLUH29,
Full description at Annex B: TRL203, TRL139, TRL279, TRLUH120

Remarks: Sensitivities:

>9kHz / <30MHz	=	+36dBµV/m	@3.0m
>30MHz / <1GHz	=	-106dBW erp	@3.0m
>1GHz / <5.4GHz	=	-87dBW eirp	@3.0m
<12.75GHz	=	-80dBW eirp	@3.0m

TRANSMITTER TEST RESULTS

TRANSMITTER SPURIOUS EMISSIONS – RADIATED – STANDBY

Tnom = N/A Method RTP69

RHnom = N/A Channel =

Spurious Frequency and Level >25MHz / <1GHz 2nW Bands		Not applicable	Not applicable
Spurious Frequency and Level >1GHz / <4GHz [ ] >1GHz / <12.75GHz [ ] 20nW Bands		Not applicable	Not applicable
Limits Clause 8.4.3		<1000 MHz	2 nW
		>1000 MHz	20 nW
Measurement Uncertainty	<30MHz	±4.1dB	±1.0kHz
	>25MHz	±4.2dB	±1.0kHz

Exterior Measurements: Distance: 10.0 metres <48MHz [ ] 3.0 metres <1GHz [ ]

Interior Measurements: Distance: 3.0 metres <48MHz [ ] 0.3 metres <1GHz [ ]

Test Equipment Used:
Full description at Annex B:

Remarks: **Not applicable. The EUT does not have a standby condition.**

RECEIVER TEST RESULTS

RECEIVER SPURIOUS EMISSIONS – CONDUCTED

Tnom = N/A Method RTP69

RHnom = N/A Channel =

Spurious Frequency and Level >25MHz / <1GHz 2nW Bands		Not applicable	Not applicable
Spurious Frequency and Level >1GHz / <4GHz [ ] >1GHz / <12.75GHz [ ] 20nW Bands [ ]		Not applicable	Not applicable
Limits Clause 9.2		<1000MHz	2nW
		>1000MHz	20nW
Measurement Uncertainty	<5.4GHz	±1.5dB	±1.0kHz
	>5.4GHz	±1.9dB	±1.0kHz

Test Equipment Used:
Full description at Annex B:

Remarks: **Not applicable. The EUT is a transmitter only.**

RECEIVER TEST RESULTS

RECEIVER SPURIOUS EMISSIONS – RADIATED

Tnom = N/A Method RTP69

RHnom = N/A Channel = N/A

Spurious Frequency and Level >25MHz / <1GHz 2nW Bands		Not applicable	Not applicable
Spurious Frequency and Level >1GHz / <4GHz [ ] >1GHz / <12.75GHz [ ] 20nW Bands		Not applicable	Not applicable
Limits Clause 9.2		<1000MHz	2nW
		>1000MHz	20nW
Measurement Uncertainty	<30MHz	±4.1dB	±1.0kHz
	>25MHz	±4.2dB	±1.0kHz

Test Equipment Used:
Full description at Annex B:

Remarks: **Not applicable. The EUT is a transmitter only.**

ANNEX A

PHOTOGRAPHS

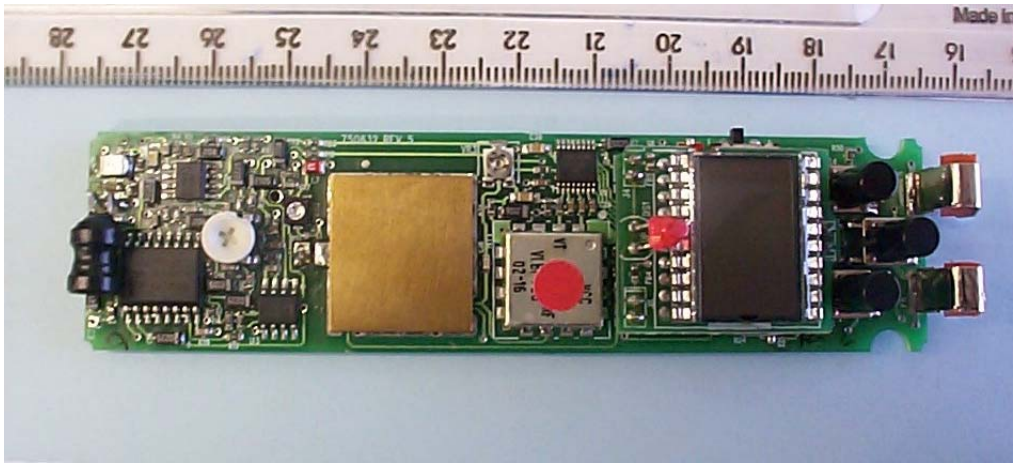
PHOTOGRAPH No. 1 **Equipment Under Test**

PHOTOGRAPH No. 2 **Overview**

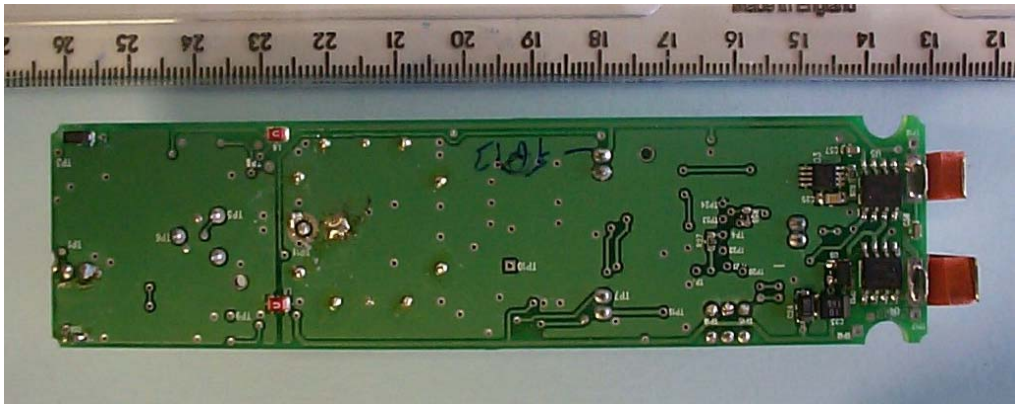
PHOTOGRAPH No. 3 **Overview Battery Lid Open**

PHOTOGRAPH No. 4 **Overview Back**

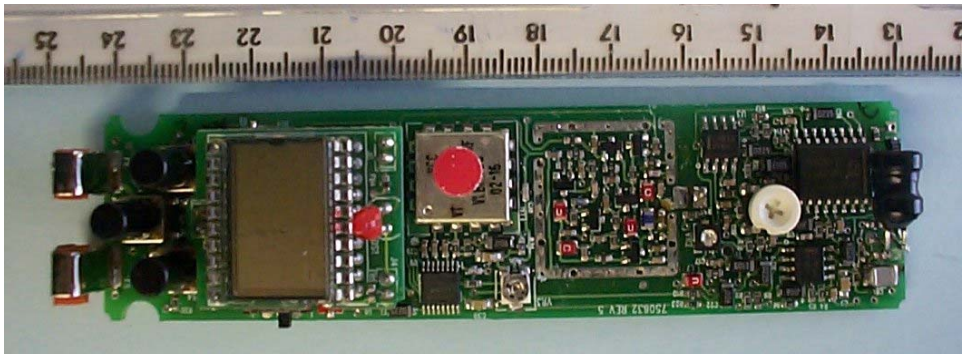
PHOTOGRAPH No. 5 **PCB Top**



PHOTOGRAPH No. 6 **PCB Bottom**



PHOTOGRAPH No. 7 **PCB Can Removed**



ANNEX B

TEST EQUIPMENT LIST

TEST EQUIPMENT LIST

TYPE OF EQUIPMENT	MAKER/SUPPLIER	MODEL No	SERIAL No	TRL No
RF ANALYSER, RADIO COMMS, 100kHz - 1GHz	R & S	CMTA 52	894715 / 003	05
LOOP ANTENNA 9kHz - 30MHz	R & S	HFH2	881058 - 53	07
RANGE 1 (3 - 30m)	TRL	N/A	N/A	08
ENVIRONMENTAL CHAMBER (temp)	SHARETREE	TCC125 - 815P	CS 203	11
AE, DRG HORN, 1GHz - 18GHz	EMCO	3115	9010 - 3580	138
RF ANALYSER, 10kHz - 60GHz	TEKTRONIX	2756P	B010109	164
GRAPH PLOTTER	ROLAND	DXY1100	BC19385	165
DATA CONVERTER	GREENWICH	GA234	N/A	166
RF SIGNAL GEN, LOW NOISE -90dBc, 10kHz - 5.4GHz	MARCONI	2042	119388 / 080	176
MULTIMETER (dig)	ISOTECH	IDM91	00606606	190
THERMOMETER & HYGROMETER	RS COMPONENTS	212 - 146	N/A	191
LF / HF RECEIVER, 9kHz - 30MHz	R & S	ESHS20	837960 / 003	237
RF SIGNAL GEN, LOW NOISE –90dBc, 10kHz - 5.4GHz	MARCONI	2042	119562 / 021	254
RF POWER METER	MARCONI	6960B	237012 / 015	282
COAX ATTN 2W 30dB, N, 50Ω DC 20GHz	WEINSCHEL	5848	BB7374	283A
V / UHF RECEIVER, 20MHz - 1GHz	R & S	ESVS10	837948 / 003	317
V / UHF RECEIVER, 20MHz - 1GHz	R & S	ESVS10	844594 / 0003	352
LF / HF RECEIVER, 9kHz - 30MHz	R & S	ESHS10	844077 / 019	353
V / UHF RECEIVER, 20MHz - 1GHz	R & S	ESVS20	838804 / 005	415
RF ANALYSER, RADIO COMMS, 400kHz - 1GHz	R & S	CMS54, with opts. B1,B5,B31	842509 / 022	420
LF / HF RECEIVER, 9kHz - 30MHz	R & S	ESHS10	830051 / 001	UH 03
LOOP ANTENNA 9kHz - 30MHz	R & S	HFH - Z2	892246 / 023	UH 23
RF ANALYSER, DC - 26.5GHz	MARCONI	2380	152089 / 009	UH 120
		2386	152076 / 044	

ANNEX C

EMISSION GRAPH(s)

TRL Compliance Services Ltd

19 May 2004 10:05

E-Field Radiation

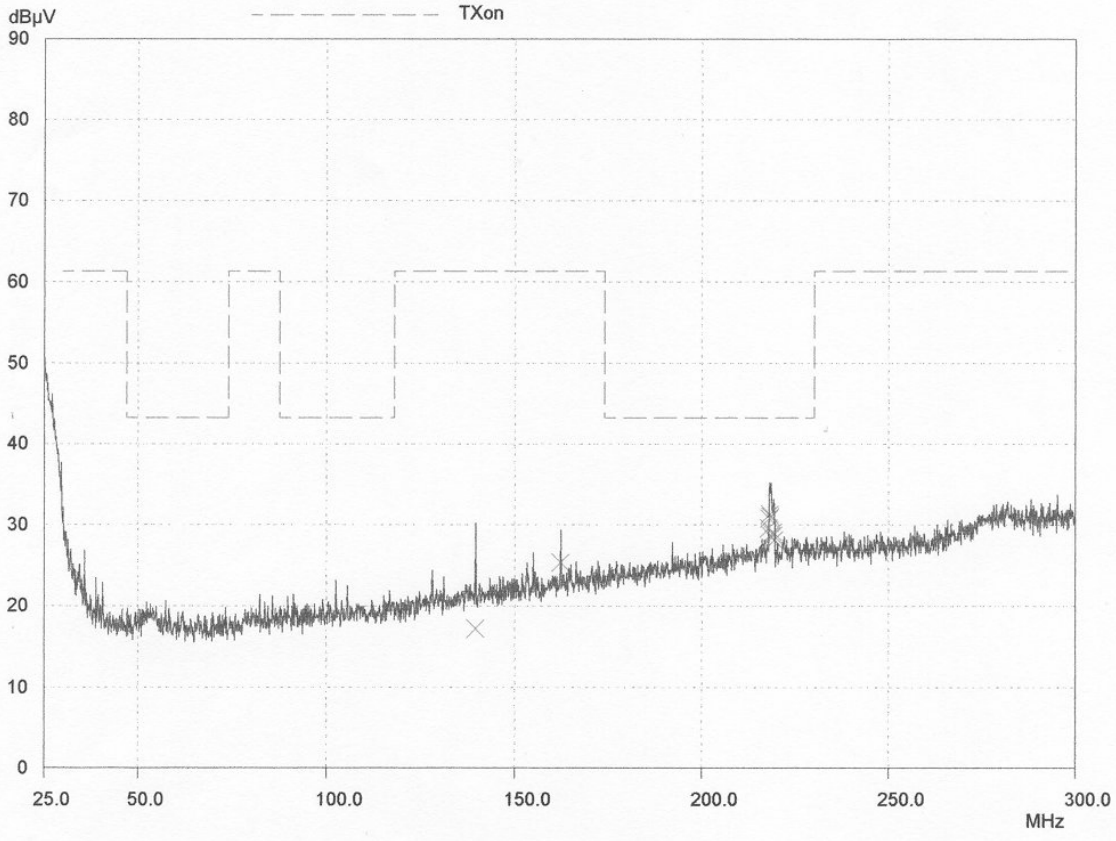
EUT:	N/D267a (Kit1)
Manuf:	Telex Commumications inc
Op Cond:	Pre-Scan 30MHz - 300MHz
Operator:	J Charters
Test Spec:	ETS 300 422
Comment:	Radio Mic On. Antenna Vertical
	Channel = 648.1MHz

Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
25MHz	300MHz	50kHz	120kHz	PK	2msec	Auto	ON	60dB

Transducer	No.	Start	Stop	Name
	22	25MHz	300MHz	BiconeUH29

Final Measurement:		
	Detector:	X QP
	Meas Time:	1sec
	Peaks:	50
	Acc Margin:	20 dB



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TRL Compliance Services Ltd

19 May 2004 13:17

E-Field Radiation

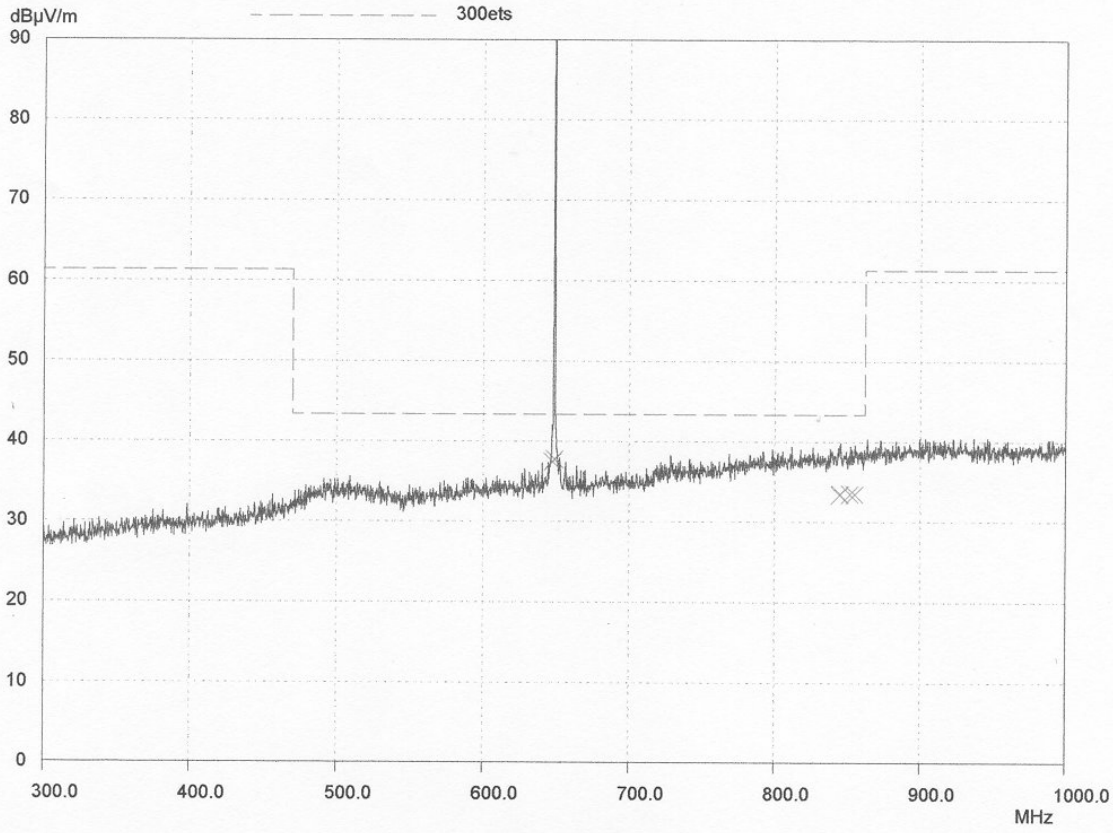
EUT:	N/D267a
Manuf:	Telex Communications inc
Op Cond:	Pre-Scan 300MHz - 1000MHz
Operator:	J Charters
Test Spec:	ETS 300 422
Comment:	Radio Mic On. Antenna Vertical
	Channel = 648.1MHz

Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
300MHz	1000MHz	50kHz	120kHz	PK	2msec	Auto	ON	60dB

Transducer	No.	Start	Stop	Name
1	19	300MHz	1000MHz	LOGUH28
	20	25MHz	1000MHz	UH72Cable

Final Measurement:		
	Detector:	X QP
	Meas Time:	1sec
	Peaks:	50
	Acc Margin:	20 dB



PAGE 1

TRL Compliance Services Ltd

19 May 2004 10:27

E-Field Radiation

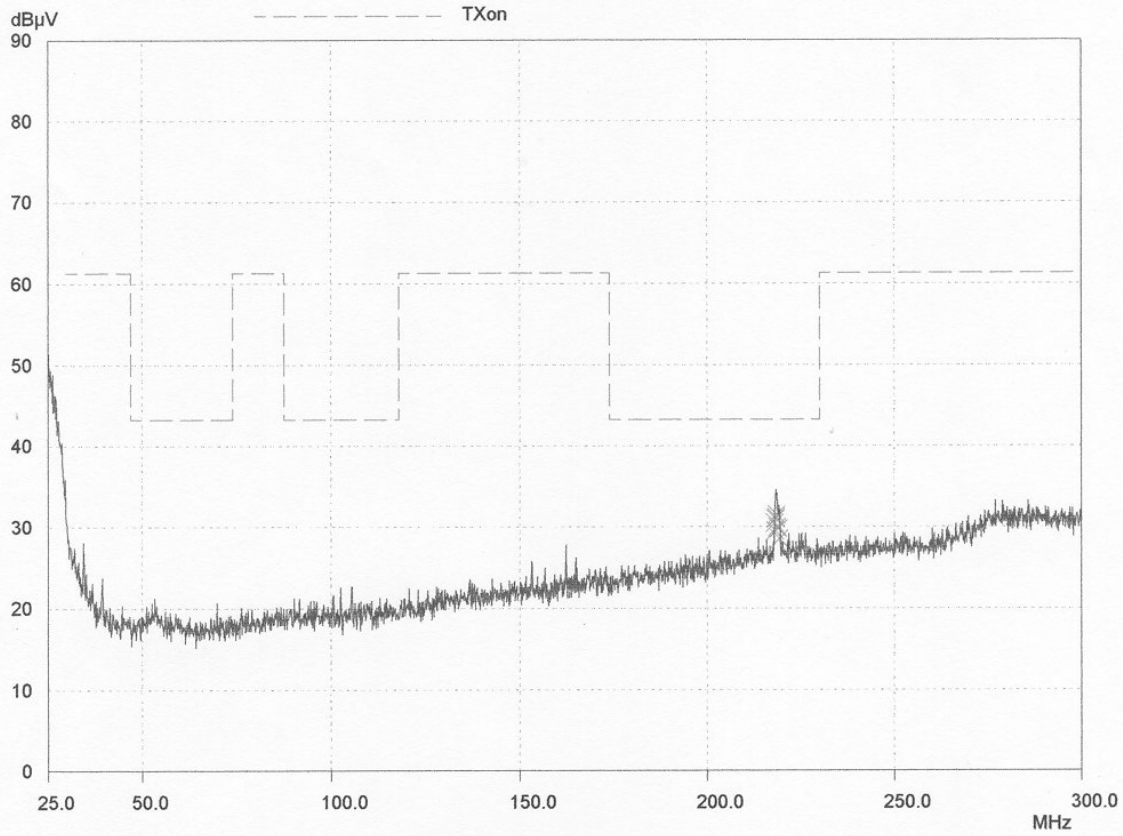
EUT:	N/D267a (Kit1)
Manuf:	Telex Commumications inc
Op Cond:	Pre-Scan 30MHz - 300MHz
Operator:	J Charters
Test Spec:	ETS 300 422
Comment:	Radio Mic On. Antenna Vertical
	Channel = 662.0MHz

Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
25MHz	300MHz	50kHz	120kHz	PK	2msec	Auto	ON	60dB

Transducer	No.	Start	Stop	Name
	22	25MHz	300MHz	BiconeUH29

Final Measurement:		
	Detector:	X QP
	Meas Time:	1sec
	Peaks:	50
	Acc Margin:	20 dB



PAGE 1

TRL Compliance Services Ltd

19 May 2004 12:02

E-Field Radiation

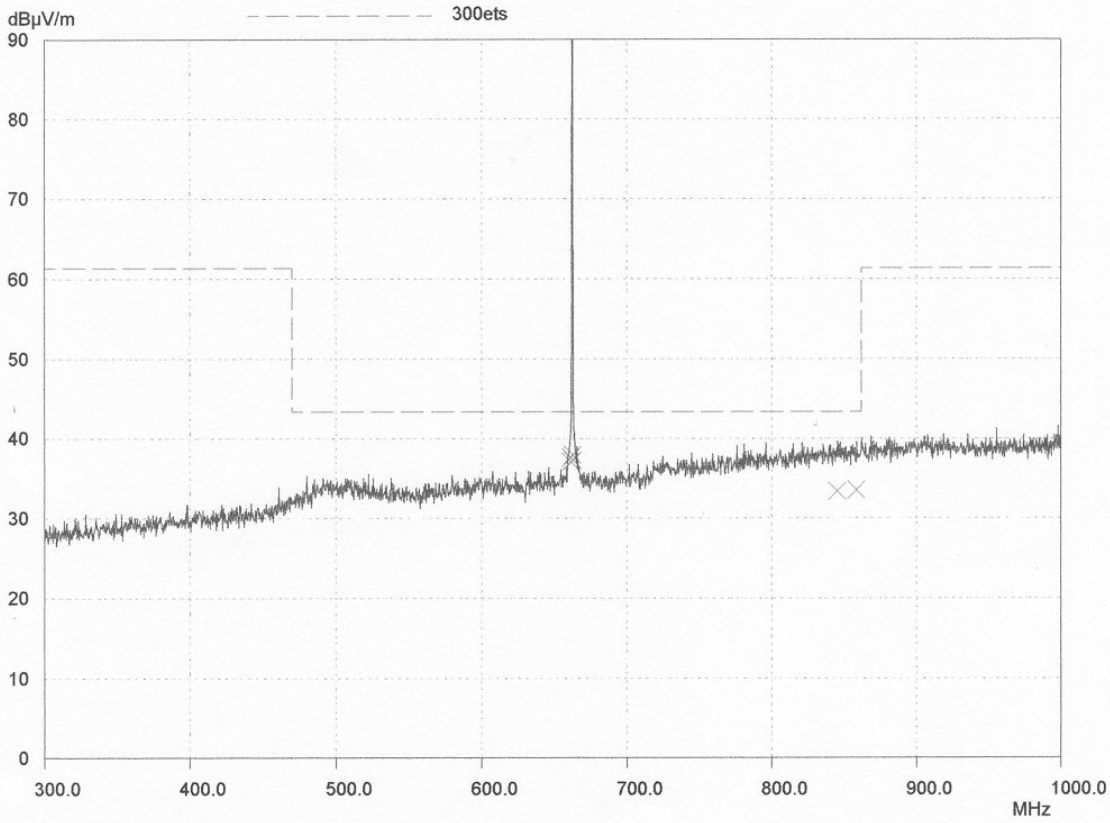
EUT:	N/D267a
Manuf:	Telex Communications inc
Op Cond:	Pre-Scan 300MHz - 1000MHz
Operator:	J Charters
Test Spec:	ETS 300 422
Comment:	Radio Mic On. Antenna Vertical
	Channel = 662.0MHz

Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
300MHz	1000MHz	50kHz	120kHz	PK	2msec	Auto	ON	60dB

Transducer	No.	Start	Stop	Name
1	19	300MHz	1000MHz	LOGUH28
	20	25MHz	1000MHz	UH72Cable

Final Measurement:		
	Detector:	X QP
	Meas Time:	1sec
	Peaks:	50
	Acc Margin:	20 dB



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TRL Compliance Services Ltd

19 May 2004 10:21

E-Field Radiation

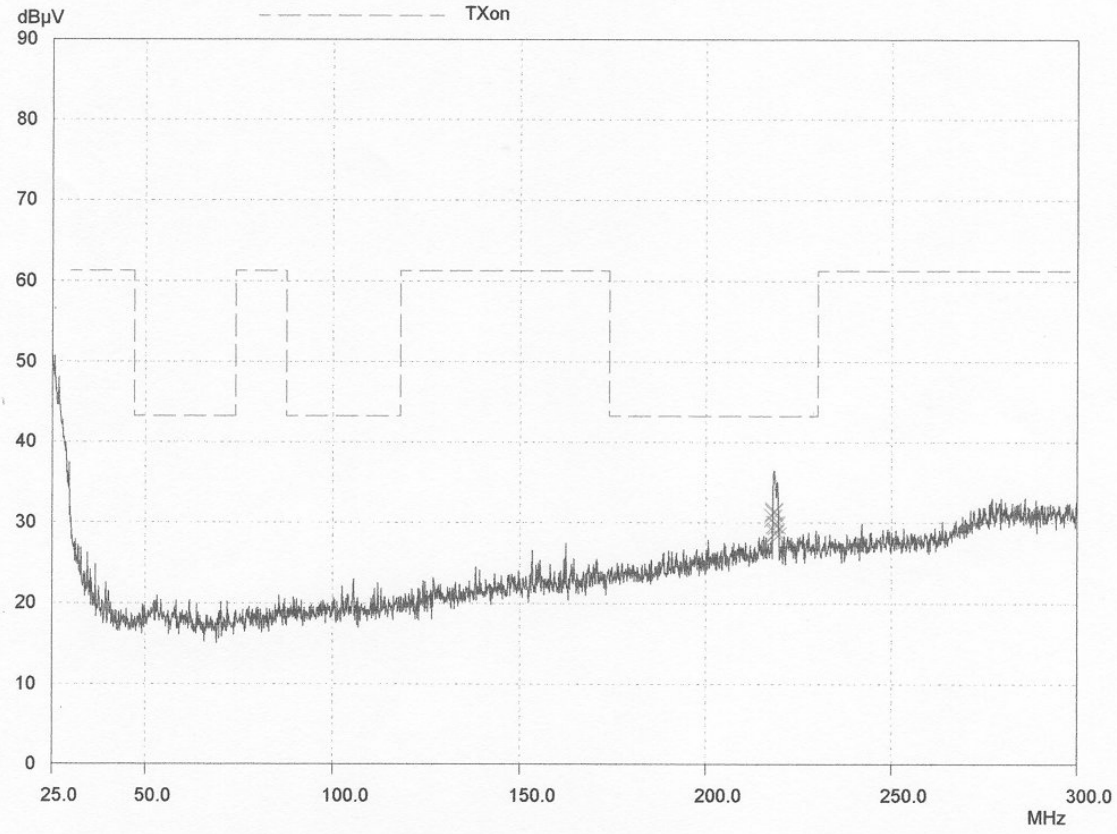
EUT:	N/D267a (Kit1)
Manuf:	Telex Commumications inc
Op Cond:	Pre-Scan 30MHz - 300MHz
Operator:	J Charters
Test Spec:	ETS 300 422
Comment:	Radio Mic On. Antenna Vertical
	Channel = 675.9MHz

Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
25MHz	300MHz	50kHz	120kHz	PK	2msec	Auto	ON	60dB

Transducer	No.	Start	Stop	Name
	22	25MHz	300MHz	BiconeUH29

Final Measurement:		
	Detector:	X QP
	Meas Time:	1sec
	Peaks:	8
	Acc Margin:	20 dB



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TRL Compliance Services Ltd

19 May 2004 12:48

E-Field Radiation

EUT:	N/D267a
Manuf:	Telex Communications inc
Op Cond:	Pre-Scan 300MHz - 1000MHz
Operator:	J Charters
Test Spec:	ETS 300 422
Comment:	Radio Mic On. Antenna Vertical
	Channel = 675.9MHz

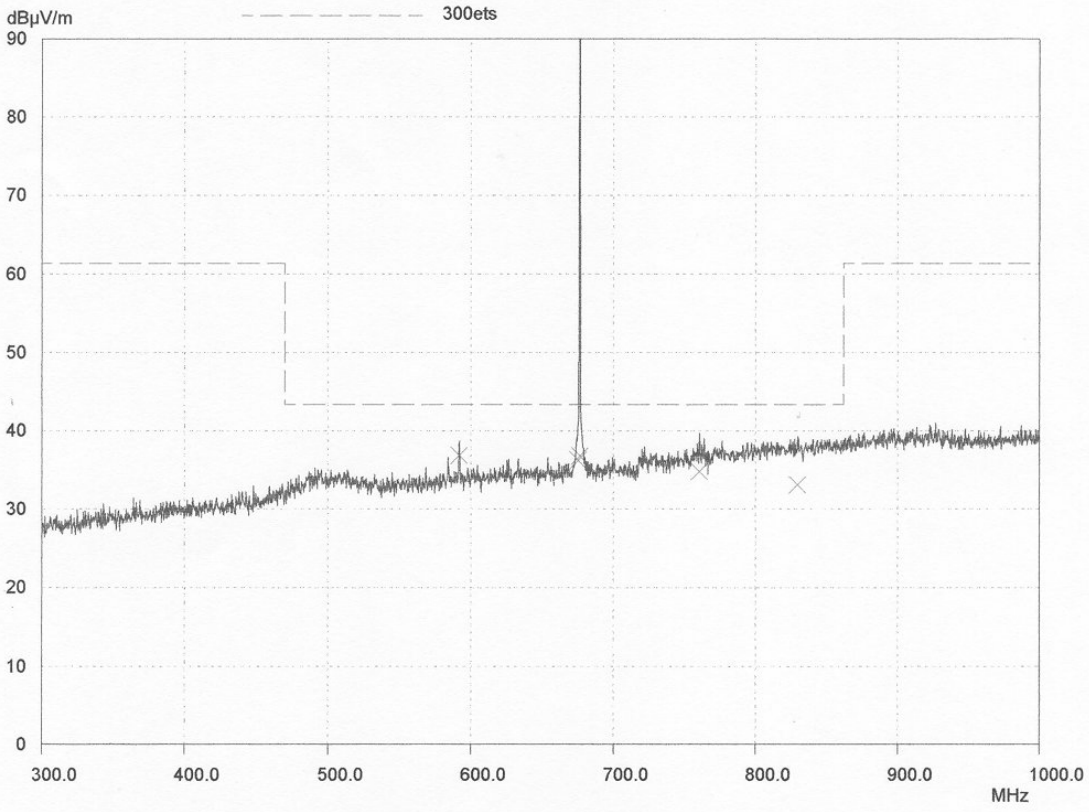
Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
300MHz	1000MHz	50kHz	120kHz	PK	2msec	Auto	ON	60dB

Transducer	No.	Start	Stop	Name
1	19	300MHz	1000MHz	LOGUH28
	20	25MHz	1000MHz	UH72Cable

Final Measurement:

Detector:	X QP
Meas Time:	1sec
Peaks:	50
Acc Margin:	20 dB



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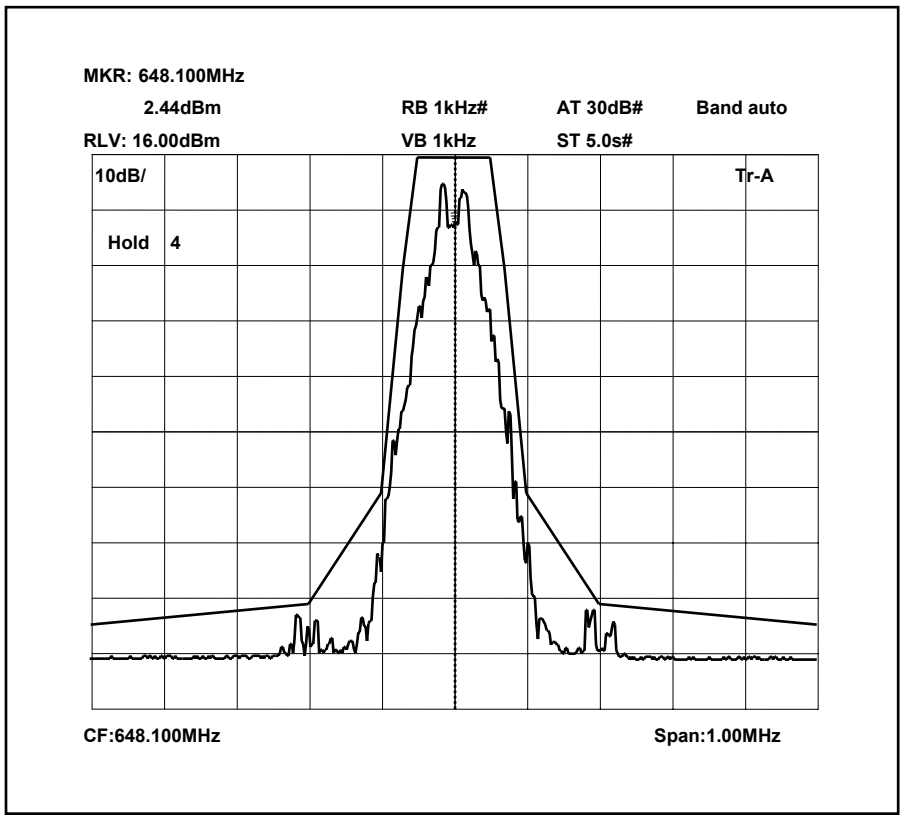
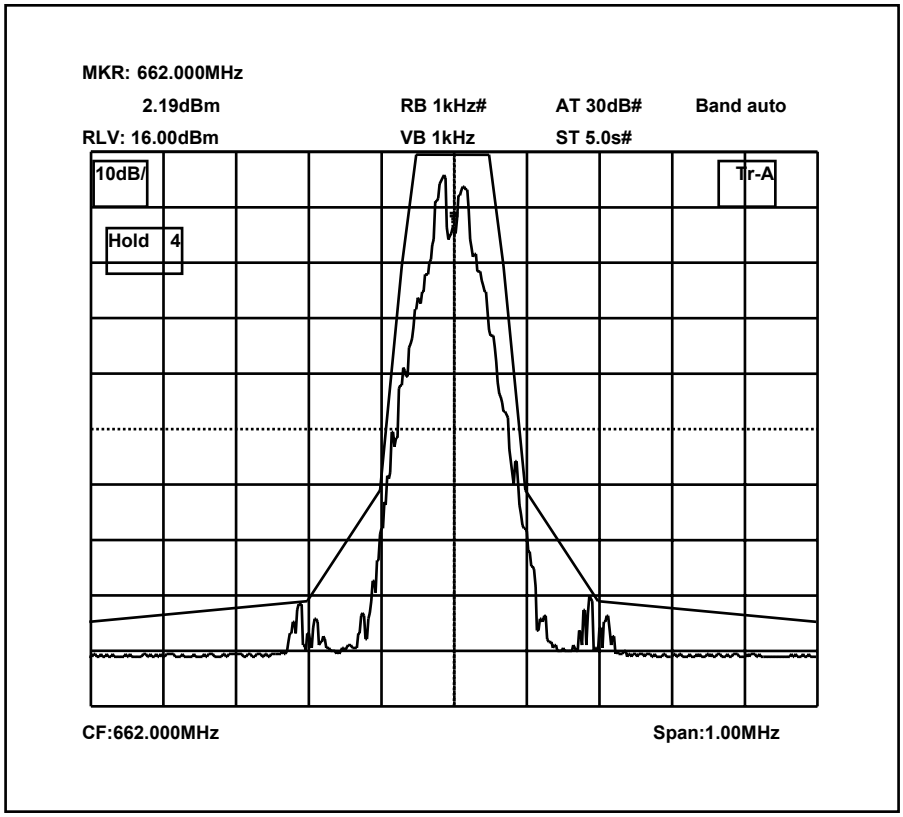
ANNEX D

MODULATION BANDWIDTH

Band Occupancy 648.1MHz



Band Occupancy 662.0MHz



Band Occupancy 675.9MHz