TEST REPORT NO: RU1161/6076

COPY NO: 2

ISSUE NO: 1

FCC ID: NEO 55-1515Series

REPORT ON THE CERTIFICATION TESTING OF A
AERIAL FACILITIES LIMITED
55-151-501 CELL ENHANCER
WITH RESPECT TO
THE FCC RULES CFR 47, PART 90 Subpart I
PRIVATE LAND MOBILE REPEATER.

TEST DATE: 1st February 2005 – 2nd February 2005

TESTED BY: Daniel Winstanley Digitally signed by Daniel Winstanley DN: CN = Daniel Winstanley, C = GB, O = TRL Compliance Services Reason: I am the author of this document Date: 2005.05.11 11:41:35 +01'00' D WINSTANLEY

APPROVED BY: Peter Green Digitally signed by Peter Green DN: CN = Peter Green, C = GB Reason: I am approving this document Date: 2005.05.12 12:48:37 +01'00' P GREEN
PRODUCT MANAGER
EMC

DATE: 11/05/2005

Distribution:

Copy Nos:
1. Aerial Facilities Limited
2. TCB: TRL Compliance Services Limited
3. TRL EMC

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

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Notes:

1. Component failure during test — YES [ ] NO [X]
2. If Yes, details of failure:
3. The facilities used for the testing of the product contain in this report are FCC Listed.

CERTIFICATE OF CONFORMITY & COMPLIANCE

FCC IDENTITY:	NEO 55-1515Series
PURPOSE OF TEST:	Certification
TEST SPECIFICATION:	FCC RULES CFR 47, Part 90 Subpart I
TEST RESULT:	Compliant to Specification
EQUIPMENT UNDER TEST:	55-151-501 Cell Enhancer
EQUIPMENT TYPE:	Private Land Mobile Repeater
MAXIMIUM GAIN	82.63dB Uplink 83.07dB Downlink
MAXIMUM INPUT	-55dBm Uplink -54dBm Downlink
MAXIMUM OUTPUT	+25.94dBm Uplink +27.79dBm Downlink
ANTENNA TYPE:	Not applicable
CHANNEL SPACING:	Not applicable, Wideband
NUMBER OF CHANNELS:	Not applicable., Wideband
FREQUENCY GENERATION:	N/A
MODULATION TYPE:	F3E
POWER SOURCE(s):	+12 Vdc or 110Vac
TEST DATE(s):	1st February 2005 – 2nd February 2005
ORDER No(s):	29156
APPLICANT:	Aerial Facilities Limited
ADDRESS:	Aerial House Asheridge Road Chesham Buckinghamshire HP5 2QD United Kingdom
TESTED BY:	Daniel Winstanley Digitally signed by Daniel Winstanley DN: CN = Daniel Winstanley, C = GB, O = TRL Compliance Services Reason: I am the author of this document Date: 2005.05.11 11:41:53 +01'00' — D WINSTANLEY
APPROVED BY:	Peter Green Digitally signed by Peter Green DN: CN = Peter Green, C = GB Reason: I am the author of this document Date: 2005.05.12 12:48:48 +01'00' — P GREEN PRODUCT MANAGER EMC

APPLICANT'S SUMMARY

EQUIPMENT UNDER TEST (EUT):	55-151-501 Cell Enhancer
EQUIPMENT TYPE:	558-151-501
PURPOSE OF TEST:	CERTIFICATION
TEST SPECIFICATION(s):	FCC RULES CFR 47, Part 90 Subpart I
TEST RESULT:	COMPLIANT Yes [X] No [ ]
APPLICANT'S CATEGORY:	MANUFACTURER [X] IMPORTER [ ] DISTRIBUTOR [ ] TEST HOUSE [ ] AGENT [ ]
APPLICANT'S ORDER No(s):	29156
APPLICANT'S CONTACT PERSON(s):	Mr Peter Bradfield
E-mail address:	Peterb@aerial.co.uk
APPLICANT:	Aerial Facilities Limited
ADDRESS:	Aerial House Asheridge Road Chesham Buckinghamshire HP5 2QD United Kingdom
TEL:	+44 (0)1494 777 000
FAX:	+44 (0)1494 778 456
MANUFACTURER:	Aerial Facilities Limited
EUT(s) COUNTRY OF ORIGIN:	United Kingdom
TEST LABORATORY:	TRL EMC
UKAS ACCREDITATION No:	0728
TEST DATE(s)	1st February 2005 – 2nd February 2005
TEST REPORT No:	RU1161/6076

EQUIPMENT TEST / EXAMINATIONS REQUIRED

1.

TEST/EXAMINATION	RULE PART	APPLICABILITY	RESULT
RF Power Output	90.205	Yes	Complies
Audio Frequency Response	TIA EIA-603.3.2.6	N/A	N/A
Audio Low-Pass Filter Response	TIA EIA-603.3.2.6	N/A	N/A
Modulation Limiting	TIA EIA-603.3.2.6	N/A	N/A
Occupied Bandwidth	90.210	Yes	Complies
Spurious Emissions at Antenna Terminals	90.210	Yes	Complies
Field Strength of Spurious Emissions	90.210	Yes	Complies
Frequency Stability	90.213	N/A(note 1)	N/A
Transient behaviour	90.214	N/A(note 2)	N/A

Notes:
1 The EUT does not contain modulation circuitry, therefore the test was not performed.
2 The EUT is not a keyed carrier system, therefore the test was not performed.

2. Product Use: Private Land Mobile Repeater

3. Emission Designator: F3E

4. Temperatures: Ambient (Tnom) 25^{o}C

5. Supply Voltages: Vnom +12Vdc or 110Vac

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

6. Equipment Category:
   Single channel [ ]
   Two channel [ ]
   Multi-channel [X]

7. Channel spacing:
   Narrowband [ ]
   Wideband [X]

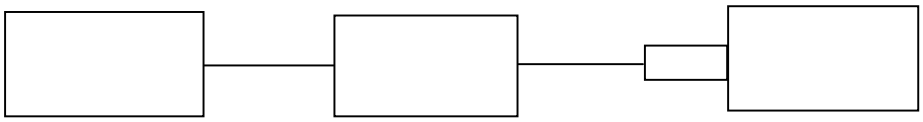
8. Test Location TRL Compliance Services
   Up Holland [X]
   Long Green [ ]

9. Modifications made during test program No modifications were performed.

COMPLIANCE TESTS

AMPLIFIER GAIN – CONDUCTED – PART 2.1046 – UPLINK

Ambient temperature	=	25°C	Radio Laboratory
Relative humidity	=	39%	
Supply voltage	=	+12Vdc & 110Vac	
Channel Frequency	=	See test results	



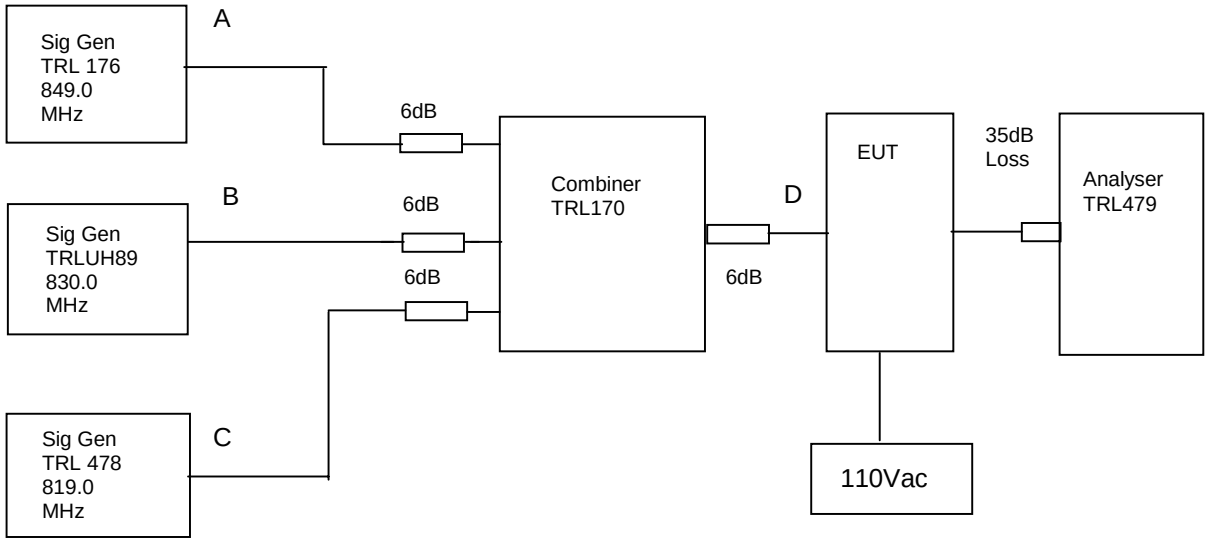
Frequency MHz	Operating Voltage	Signal Generator input level dBm	Cable & Attenuator Loss dB	Level at Spectrum Analyser dBm	Gain dB	Gain after 10dB input level increase dBm
819.0	+12Vdc	-55.0	35.67	-9.52	81.15	71.19
834.0	+12Vdc	-56.0	35.69	-9.28	82.41	72.41
844.0	+12Vdc	-57.0	35.71	-10.43	82.28	72.23
819.0	+110Vac	-55.0	35.67	-9.34	81.33	71.47
834.0	+110Vac	-56.0	35.69	-9.06	82.63	72.69
844.0	+110Vac	-57.0	35.71	-10.32	82.39	72.53

Notes:
1. The signal generator input was increased by 10dB and the level of the output signal remeasured

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	**X**
ATTENUATOR	BIRD	8304-300-N	N/A	220	**X**
ATTENUATOR	BIRD	8304-100-N	N/A	222	**X**
CABLE	ROSENBERGER	MICRO COAX	N/A	280	**X**
SIGNAL GENERATOR	MARCONI	2042	119388/080	179	**X**

AMPLIFIER INTERMODULATION SPURIOUS EMISSIONS – CONDUCTED – PART 2.1053– UPLINK

Ambient temperature = 28°C Radio Laboratory
Relative humidity = 39%
Supply voltage = 110Vac

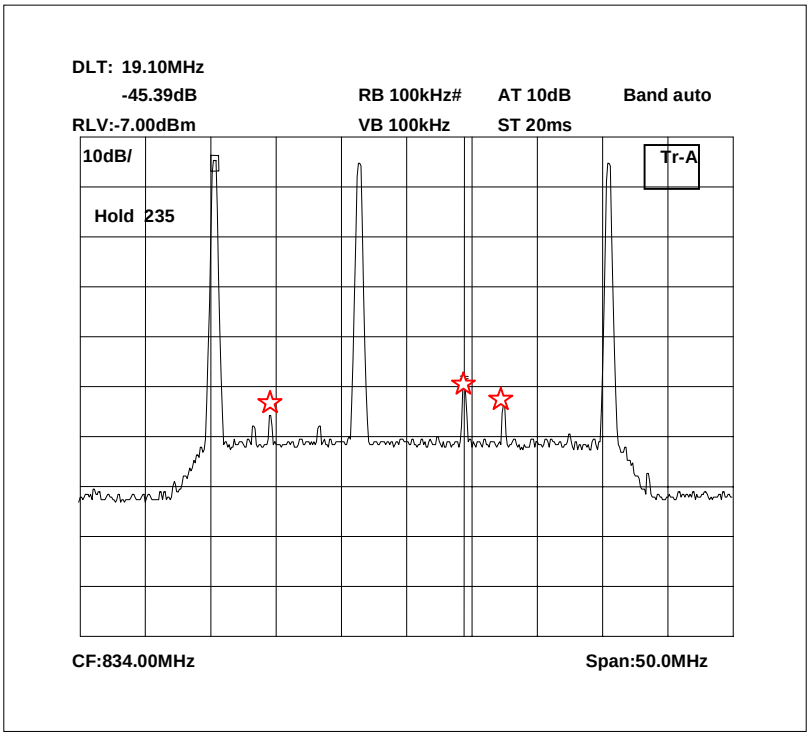


The Intermodualation and spurious products were measured with the amplifier operating at maximum gain. A three tone test was conducted using the equipment as above. The input power level was adjusted so the level at point D was the maximum input of –55dBm. The cable and attenuator loss between the EUT and the spectrum analyser was 35dB.

Sweep data is shown on the next page:

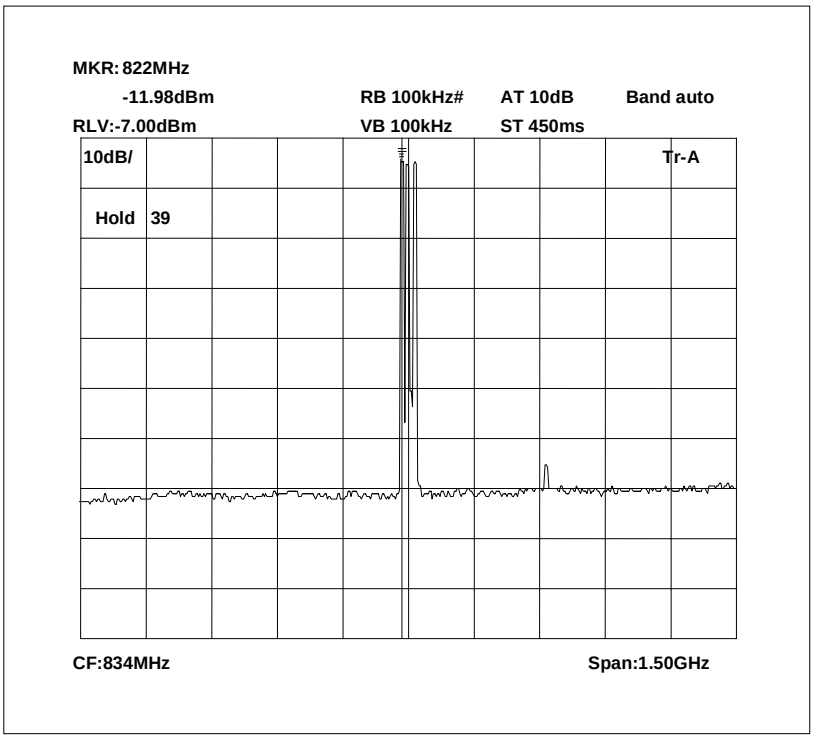
TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	**X**
SIGNAL GENERATOR	RHODE & SCHWARZ	SMR 20	834671/003	478	**X**
SIGNAL GENERATOR	MARCONI	2022D	119224/035	UH89	**X**
SIGNAL GENERATOR	MARCONI	2042	119388/080	176	**X**
COMBINER	ELCOM	RC-4-50	N/A	170	**X**

Intermodulaion Inband



The above plot shows that all products (designated by ☆) are at least 40dB below the fundamentals.

Intermodulation Wideband



The above plot shows that there are no products outside the bands.

TRANSMITTER TESTS

AMPLIFIER MODULATED CHANNEL TEST – CONDUCTED – Part 2.1049– UPLINK

Ambient temperature	=	25^{o}C	Radio Laboratory
Relative humidity	=	39%	
Supply voltage	=	100Vac	
Channel Frequency	=	See test results	

This test was performed to show that the amplifier does not alter the input signal in any way. The input signal was set to the maximum input level (-55dBm) and modulated with a 2500Hz tone and a 5000Hz tone. The plots show the signal measured at the signal generator and the signal measured at the output of the EUT.

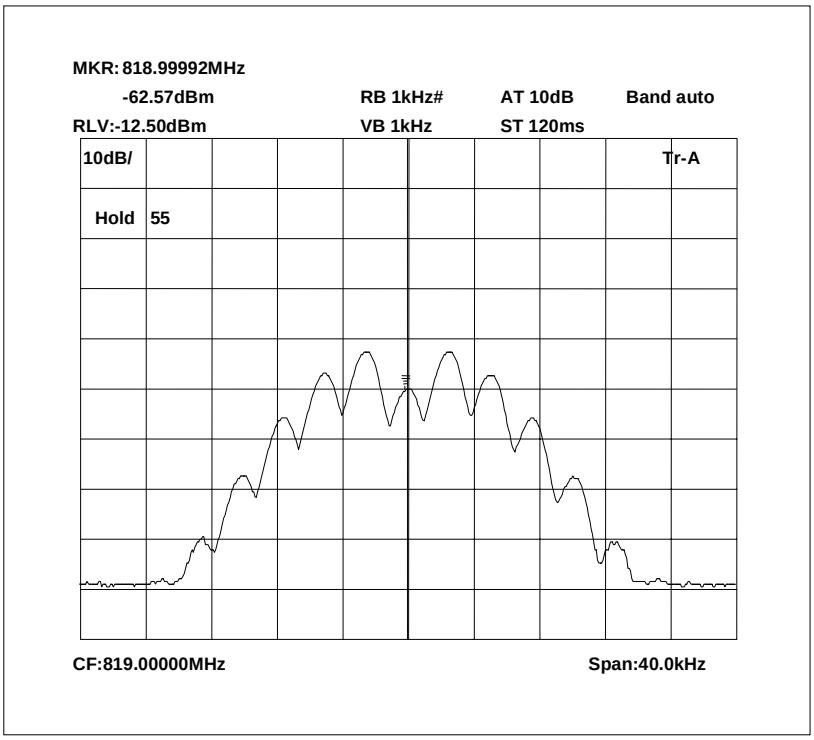
Note: The cables and attenuators had the following losses.

1. Cable and attenuator losses 35dB
2. Cable between signal generator and EUT 0.7dB

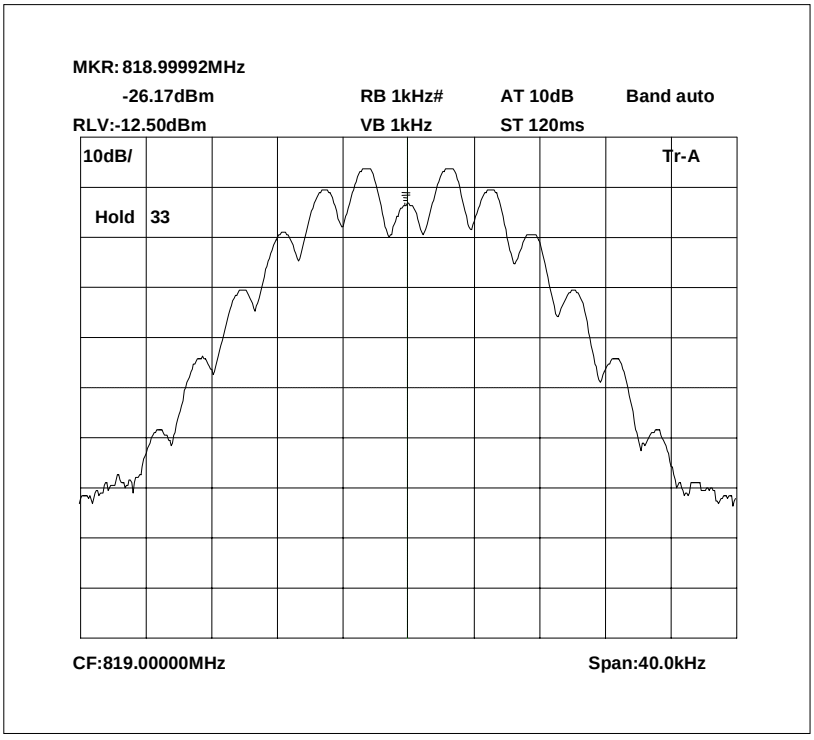
The test equipment used for the Transmitter Modulated Channel test:

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	**X**
ATTENUATOR	BIRD	8304-300-N	N/A	220	**X**
ATTENUATOR	BIRD	8304-100-N	N/A	222	**X**
CABLE	ROSENBERGER	MICRO COAX	N/A	280	**X**
SIGNAL GENERATOR	MARCONI	2042	119388/080	179	**X**

819.0MHz Signal Generator. FM deviation set to 5 kHz

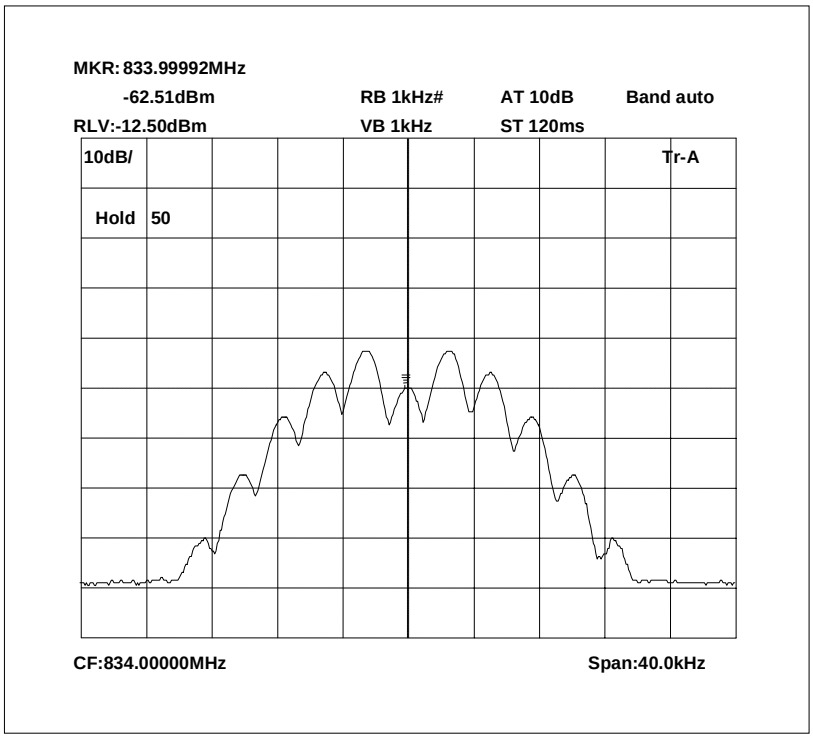


819.0MHz Signal Generator and EUT. FM deviation set to 5kHz

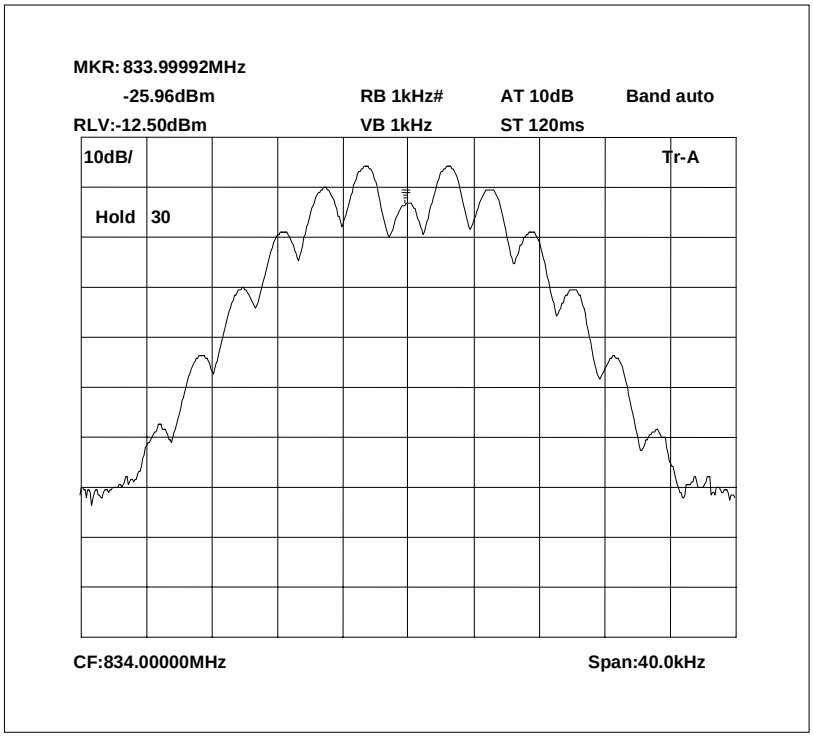


The above plots depicting the output waveshape show no measurable distortion visible. When compared to the input signal.

834.0 MHz Signal Generator. FM deviation set to 5kHz

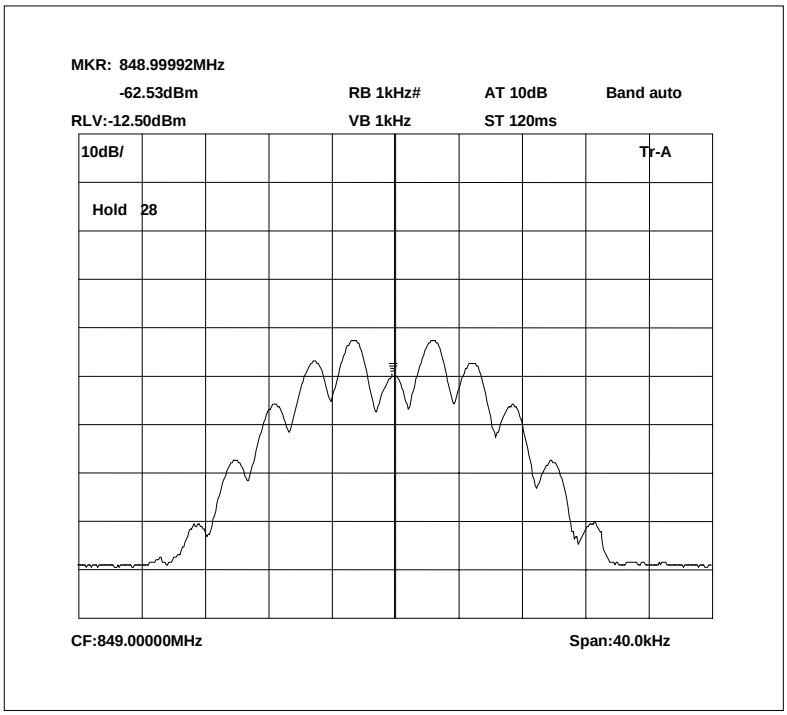


834.0MHz Signal Generator and EUT. FM deviation set to 5kHz

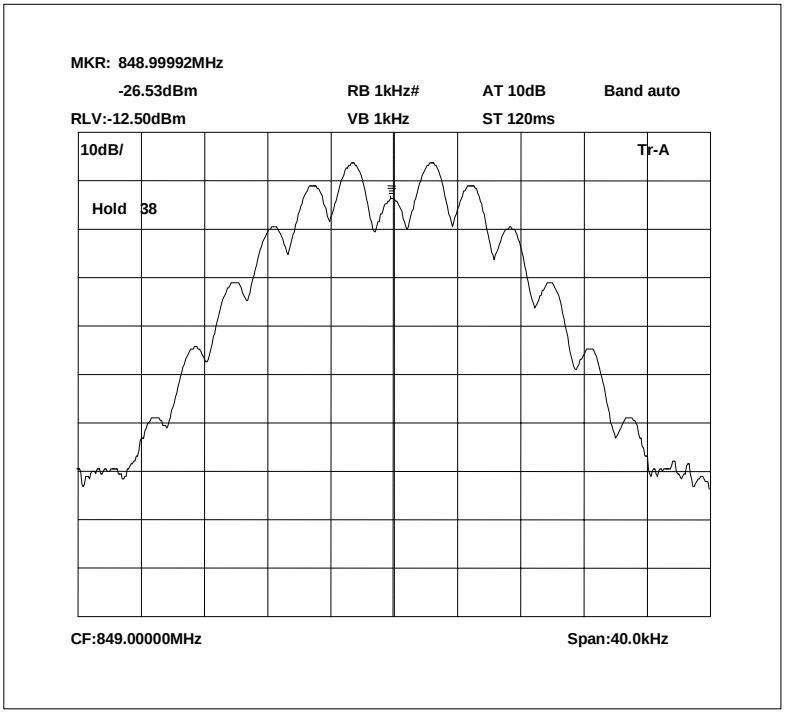


The above plots depicting the output waveshape show no measurable distortion visible. When compared to the input signal.

844.0MHz Signal Generator. FM deviation set to 5kHz



844.0MHz Signal Generator. FM deviation set to 5kHz



The above plots depicting the output waveshape show no measurable distortion visible. When compared to the input signal.

TRANSMITTER TESTS

AMPLIFIER SPURIOUS EMISSIONS – CONDUCTED – Part 2.1053 – UPLINK

Ambient temperature	=	20°C	Radio Laboratory		
Relative humidity	=	45%	Test Signal	=	F3E
Supply voltage	=	+12Vdc & 110Vac			

The test was set up as per the diagram. The level at the input was adjusted to compensate for the loss of the interconnecting cable. The unit was tested operating at maximum power and on three test frequencies.

The Spurious limit was calculated as follows:

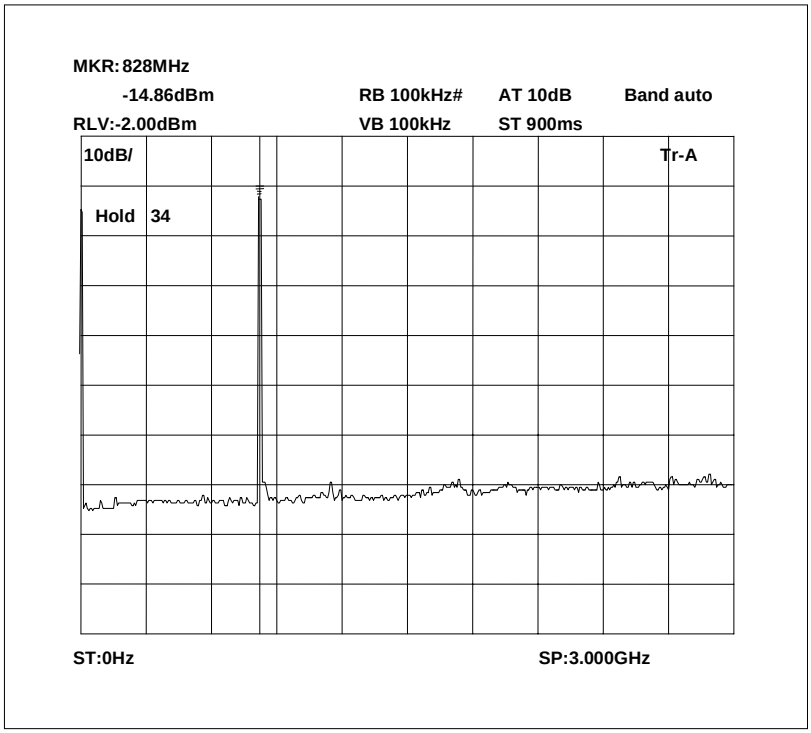
On any frequency removed from the assigned frequency by more that 250% of the authorised bandwidth

At least 43 + 10 log PdB

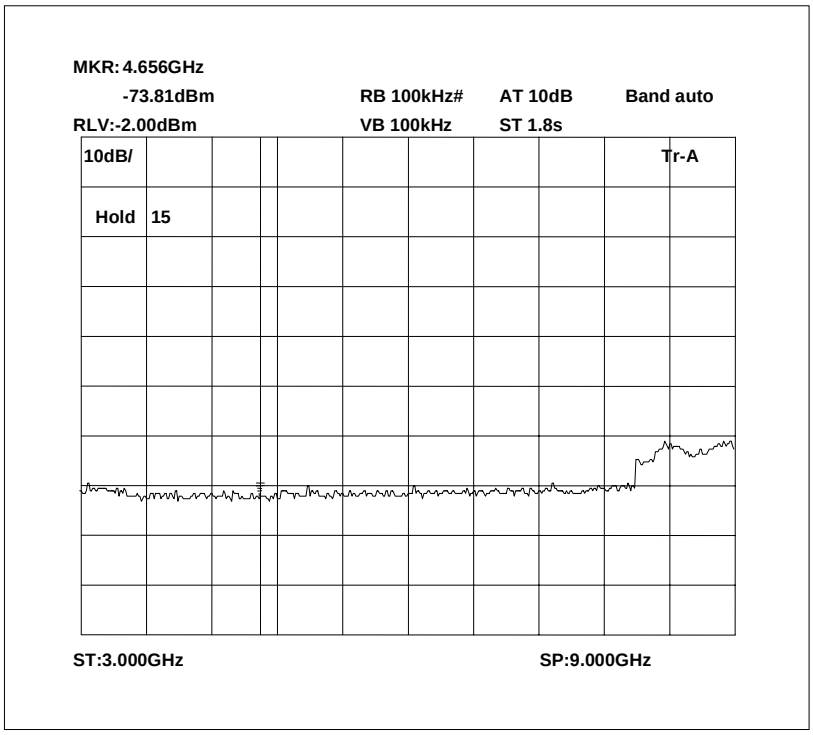
$(10\log P_{watts}) – (43+10\log (P_{watts} * 1000)) =$ LIMIT =-13 dBm

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	**X**
ATTENUATOR	BIRD	8304-300-N	N/A	220	**X**
ATTENUATOR	BIRD	8304-100-N	N/A	222	**X**
CABLE	ROSENBERGER	MICRO COAX	N/A	279	**X**
SIGNAL GENERATOR	MARCON	2042	119388/080	179	**X**

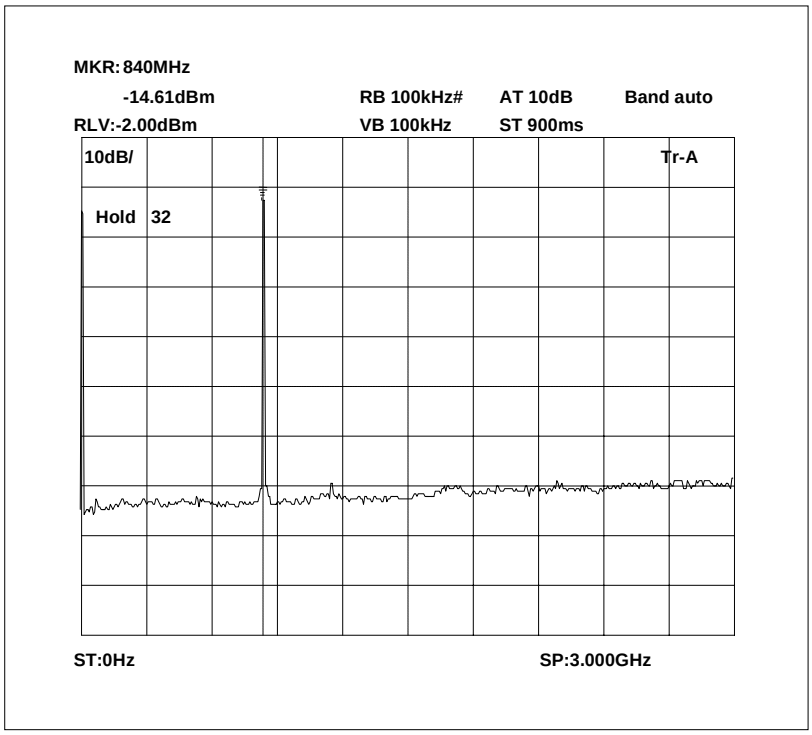
Conducted emissions 819.0MHz 0 - 3GHz



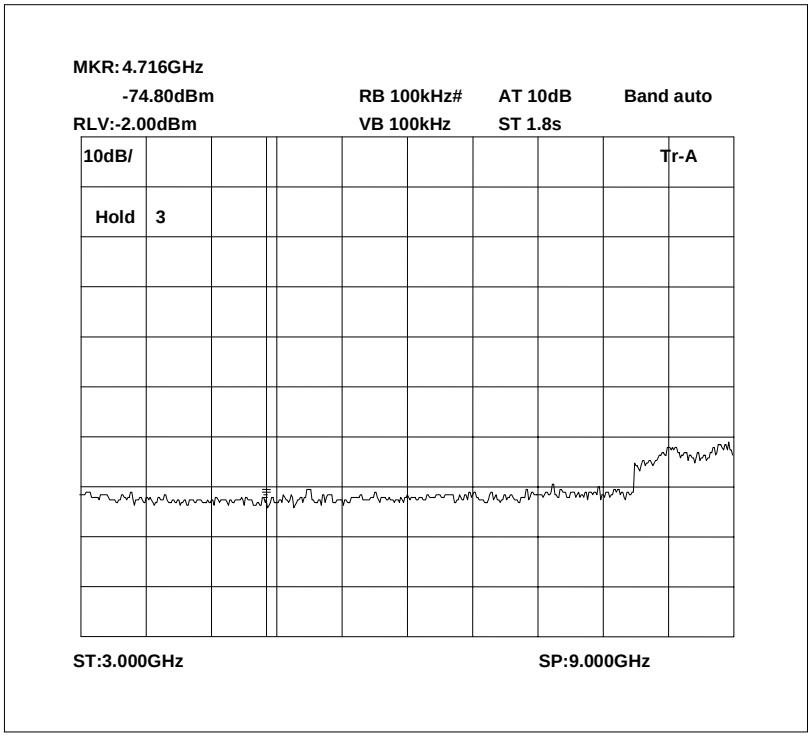
Conducted emissions 819.0MHz 3 - 5GHz



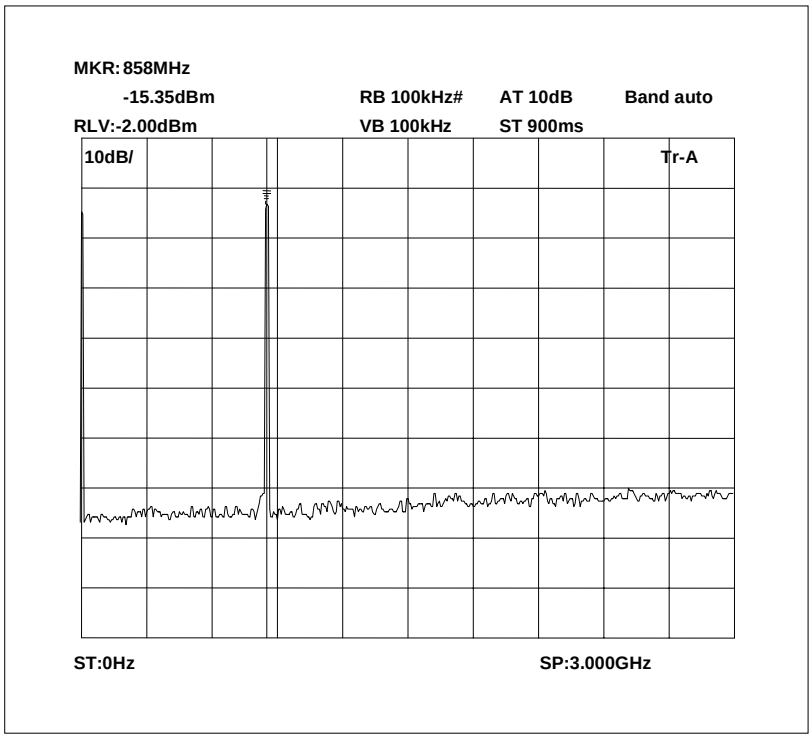
Conducted emissions 834.0MHz 0 - 3GHz



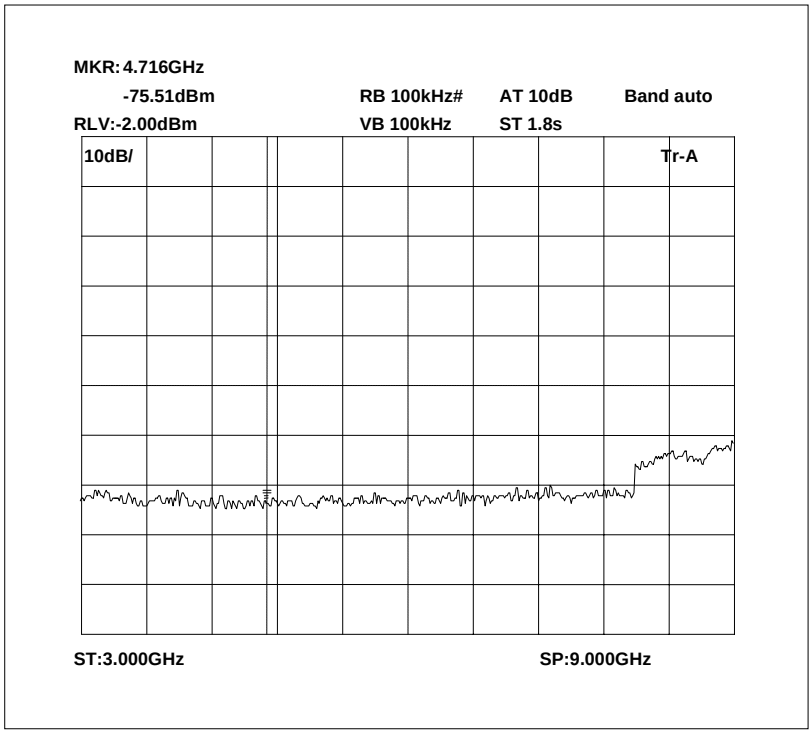
Conducted emissions 834.0MHz 3 - 9GHz



Conducted emissions 844.0MHz 0 - 3GHz



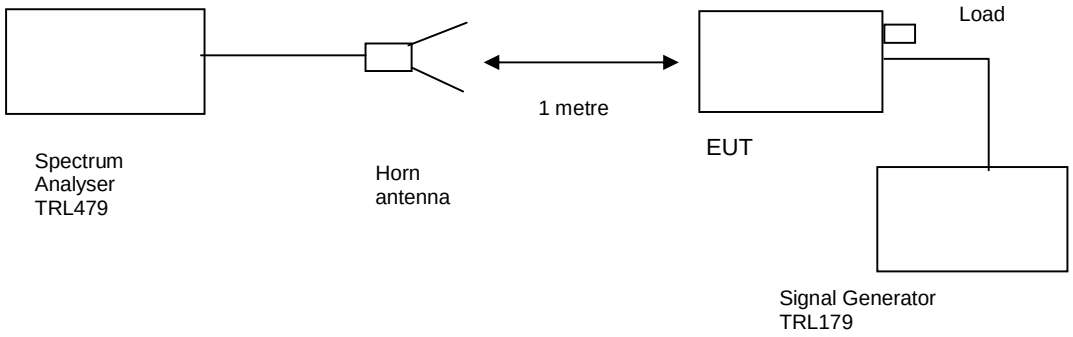
Conducted emissions 844.0MHz 3 - 9GHz



TRANSMITTER TESTS

AMPLIFIER SPURIOUS EMISSIONS – RADIATED – Part 2.1053– UPLINK

Ambient temperature	=	6°C	Test Signal	=	F3E
Relative humidity	=	39%			
Conditions	=	OATS			
Supply voltage	=	110Vac			
Supply Frequency	=	60Hz			



The test was set up as per the diagram. The level at the input was adjusted to compensate for the loss of the interconnecting cable. The unit was tested operating maximum power on three test frequencies with a 50 ohm load on the output. The unit was also tested with the signal generator replaced by another 50ohm load.

The Spurious limit was calculated as follows:

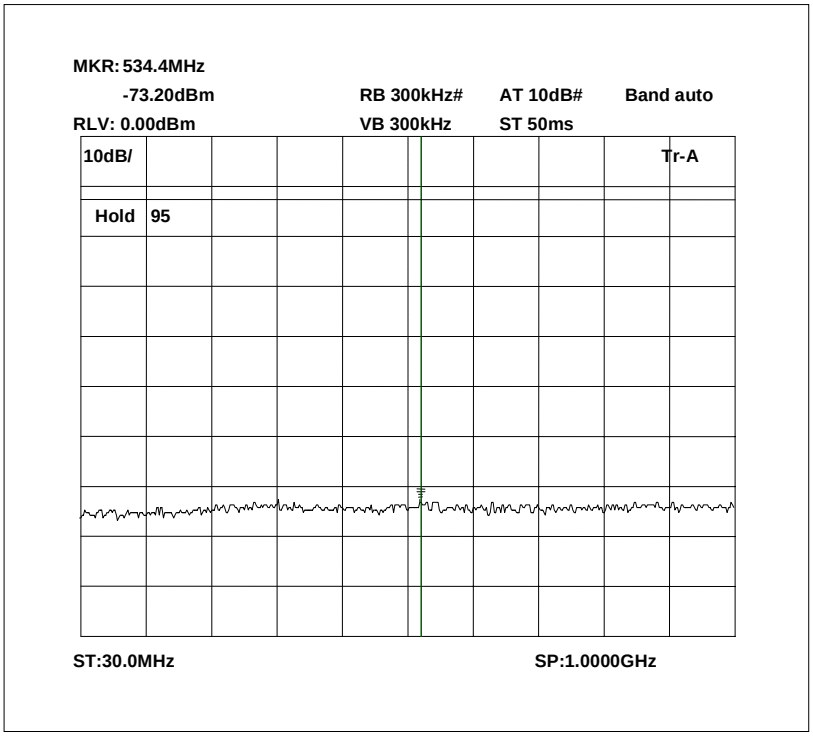
On any frequency removed from the assigned frequency by more that 250% of the authorised bandwidth

At least 43 + 10 log PdB

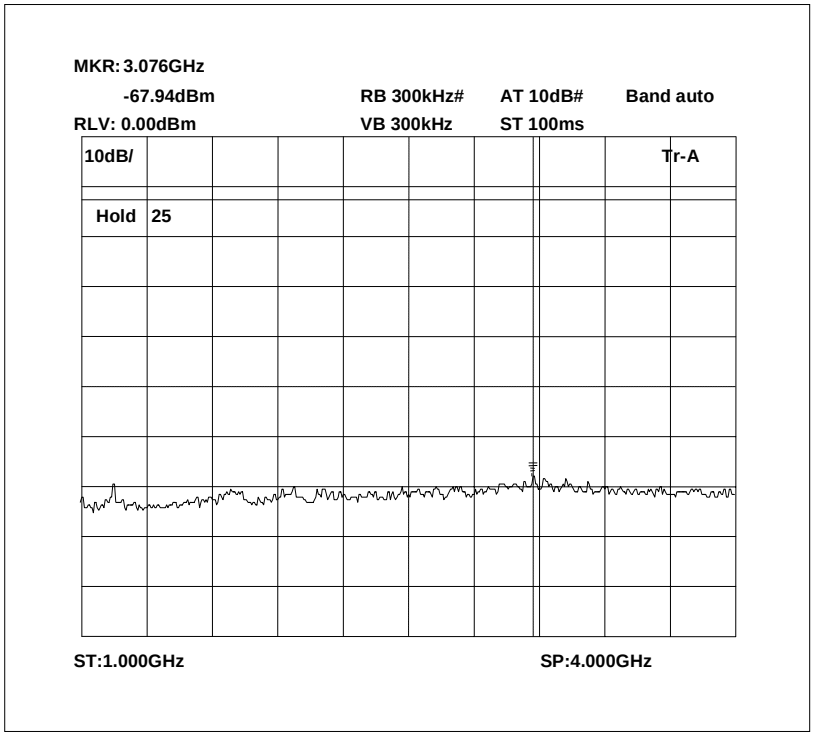
$(10\log P_{watts}) – (43+10\log (P_{watts} * 1000)) = LIMIT = -13$ dBm

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	**X**
HORN	EMCO	3115	9010-3581	139	**X**
50 OHM LOAD	PHILCO	160B-300	1643	UH139	**X**
50 OHM LOAD	RHODE & SCHWARZ	200.0019.55	300804/32	UH227	**X**
CABLE	ROSENBERGER	MICRO COAX	N/A	280	**X**
SIGNAL GENERATOR	MARCONI	2042	119388/080	179	**X**

Radiated emissions 819.3MHz 0 – 1000MHz

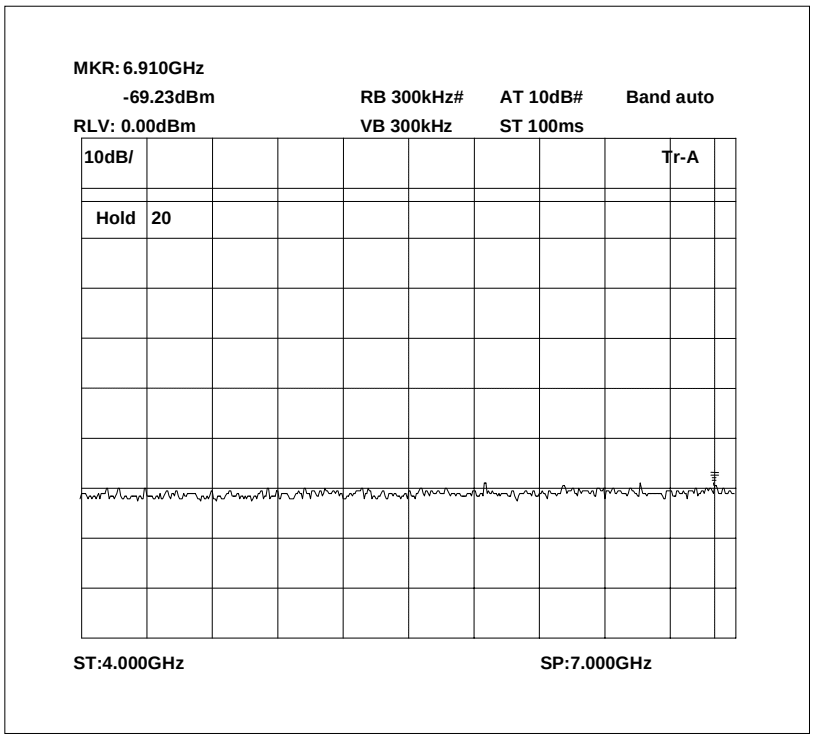


Radiated emissions 819.3MHz 1000MHz – 4000MHz

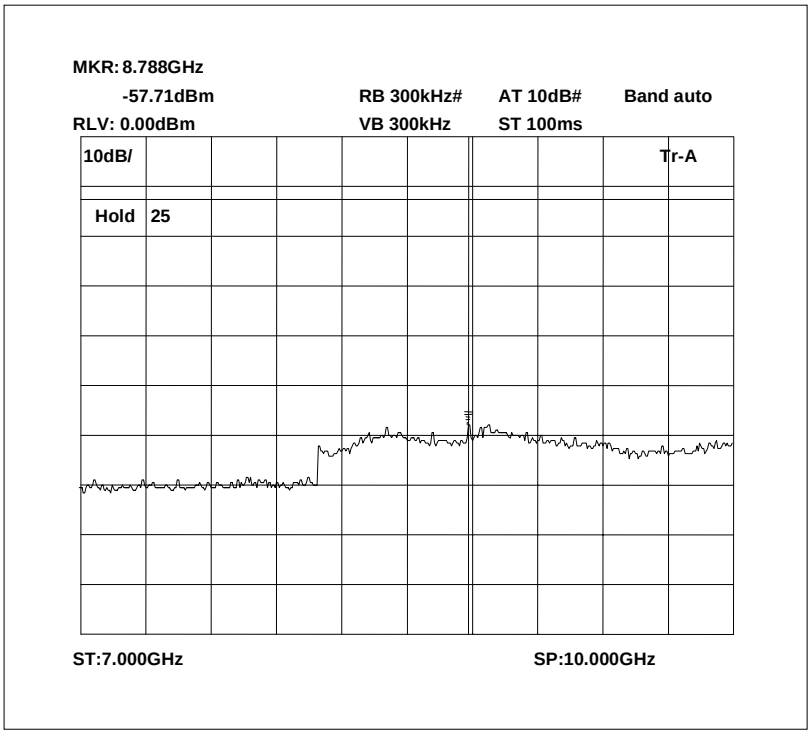


The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions 819.0 MHz 4000MHz – 7000MHz

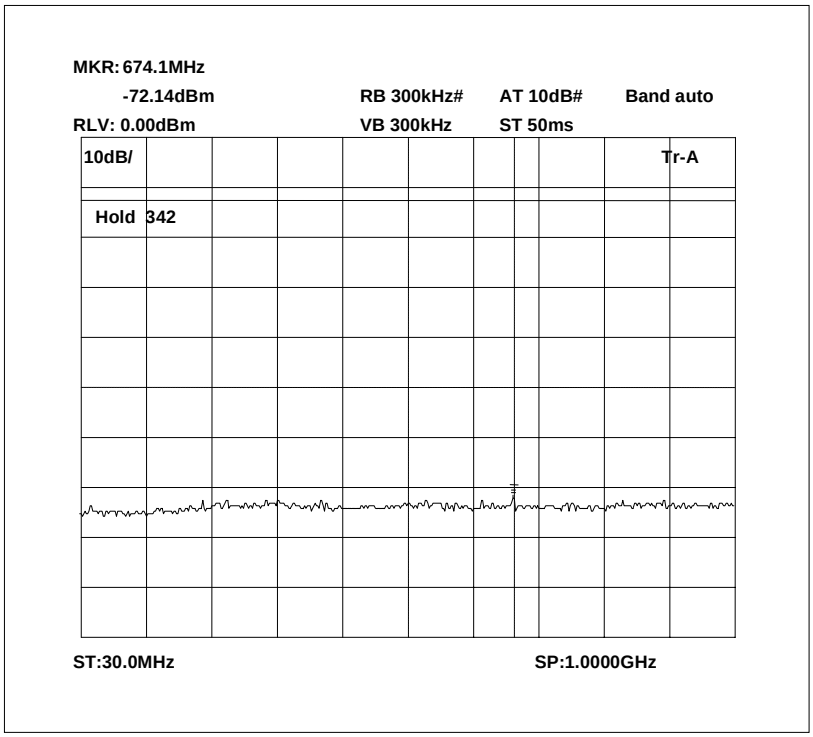


Radiated emissions 819.0 MHz 7000MHz – 10000MHz

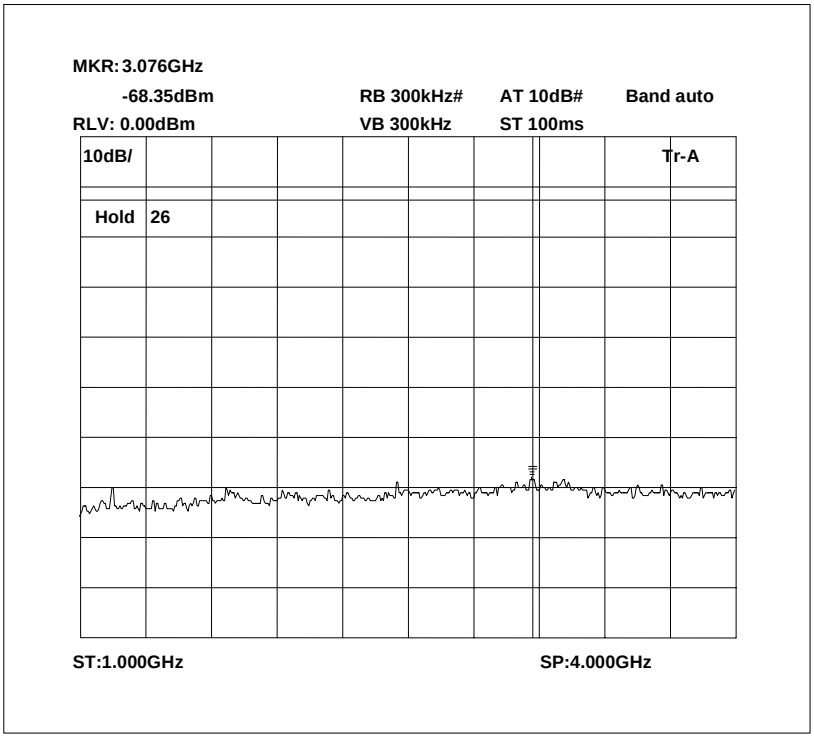


The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions 834.0 MHz 30MHz - 1000MHz

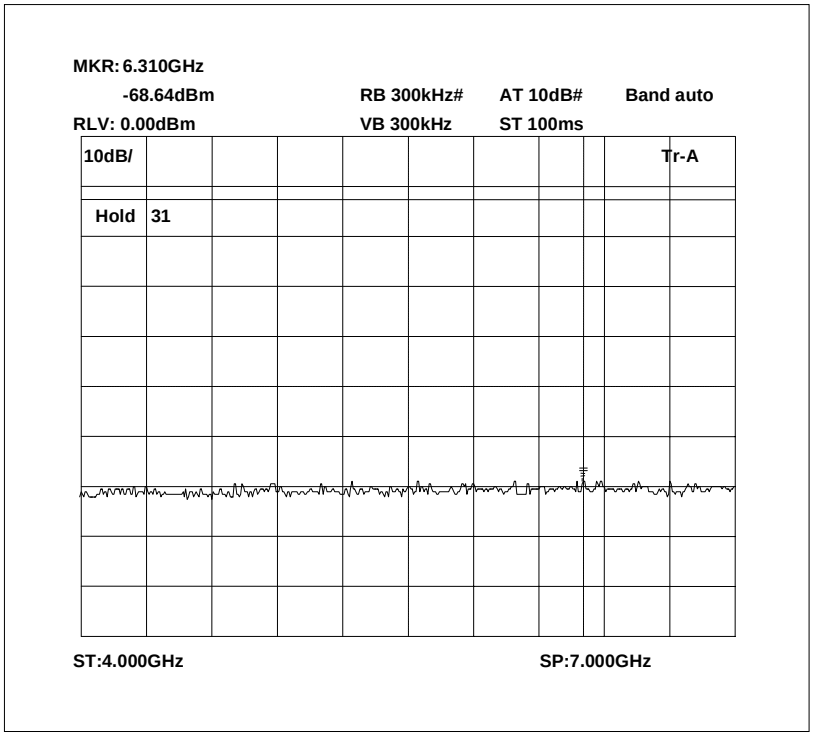


Radiated emissions 834.0 MHz 1000MHz - 4000MHz

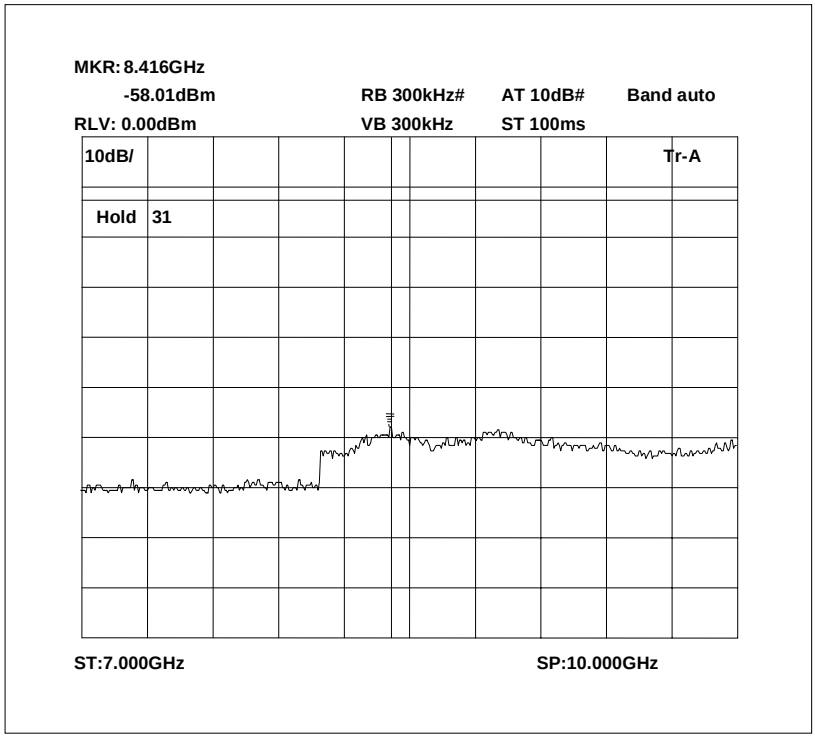


The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions 834.0 MHz 4000MHz – 7000MHz

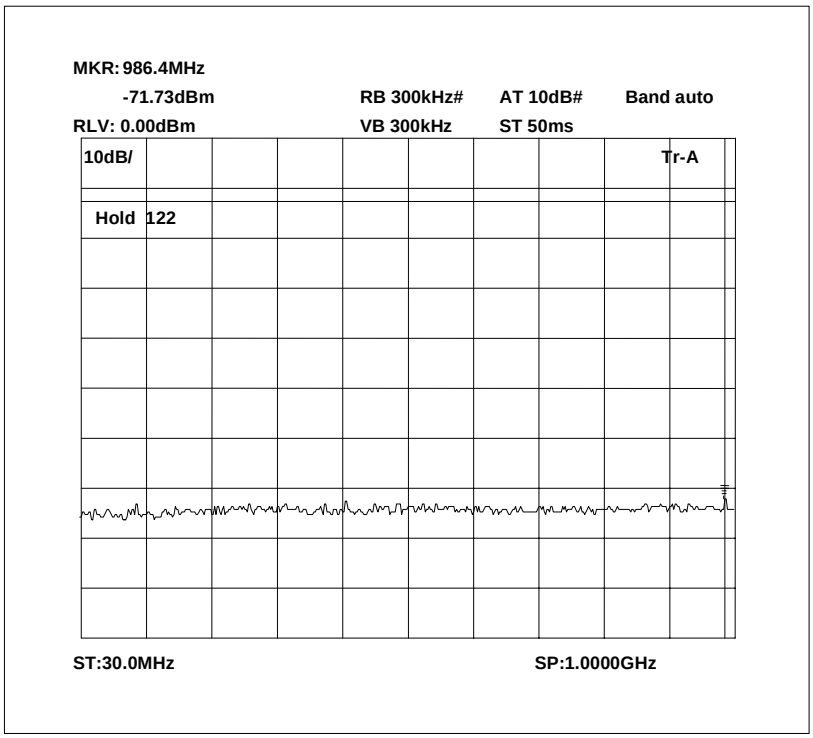


Radiated emissions 834.0 MHz 7000MHz – 10000MHz

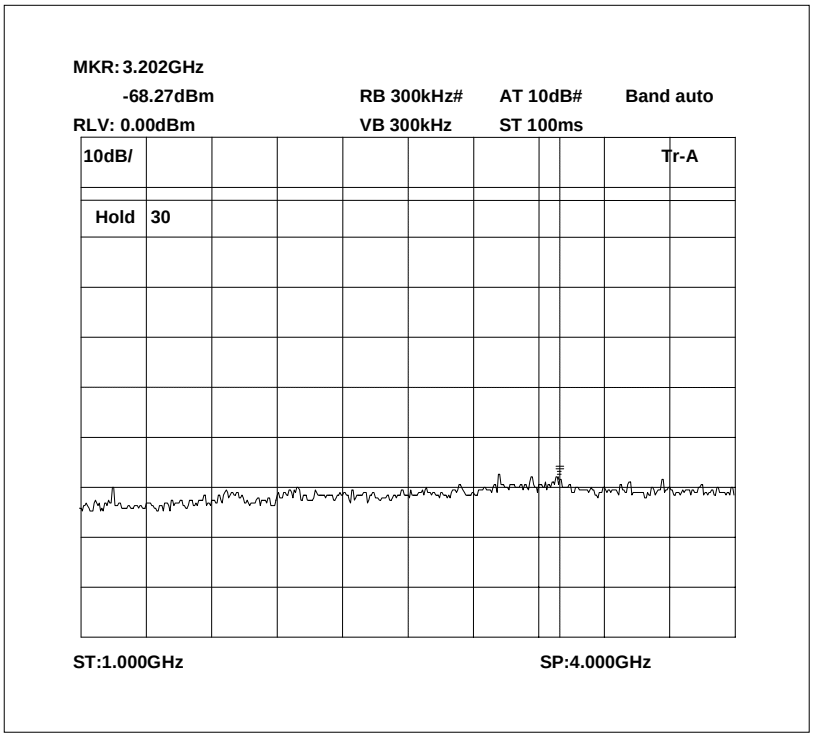


The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions 844.0MHz 30MHz – 1000MHz

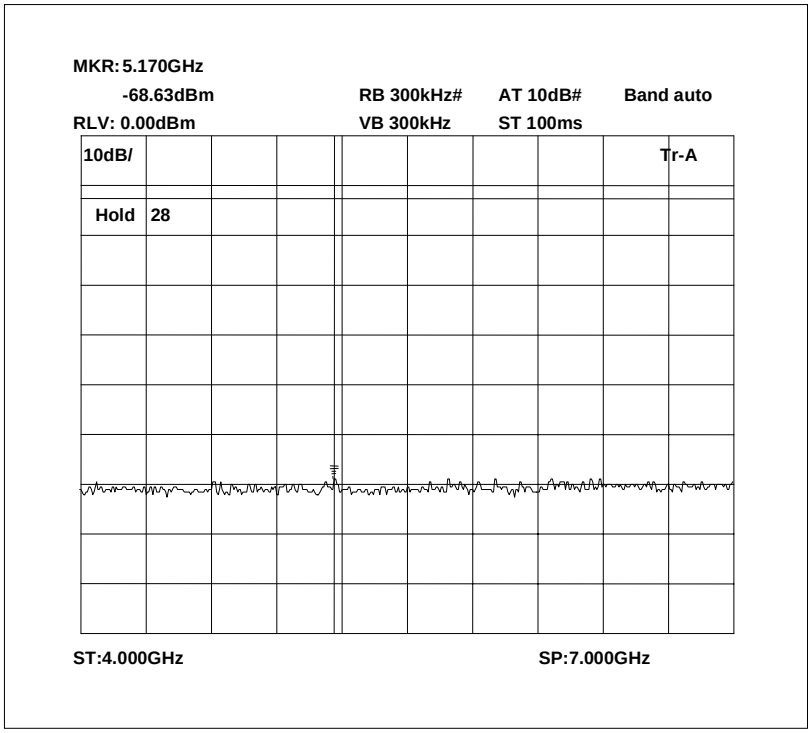


Radiated emissions 844.0MHz 1000MHz - 4000MHz

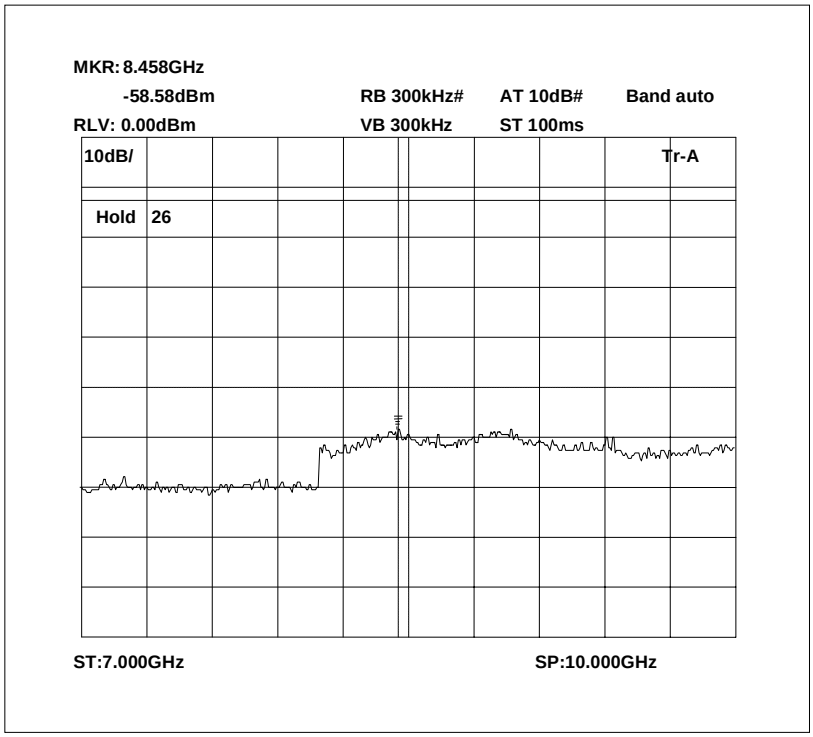


The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions 844.0 MHz 4000MHz – 7000Hz

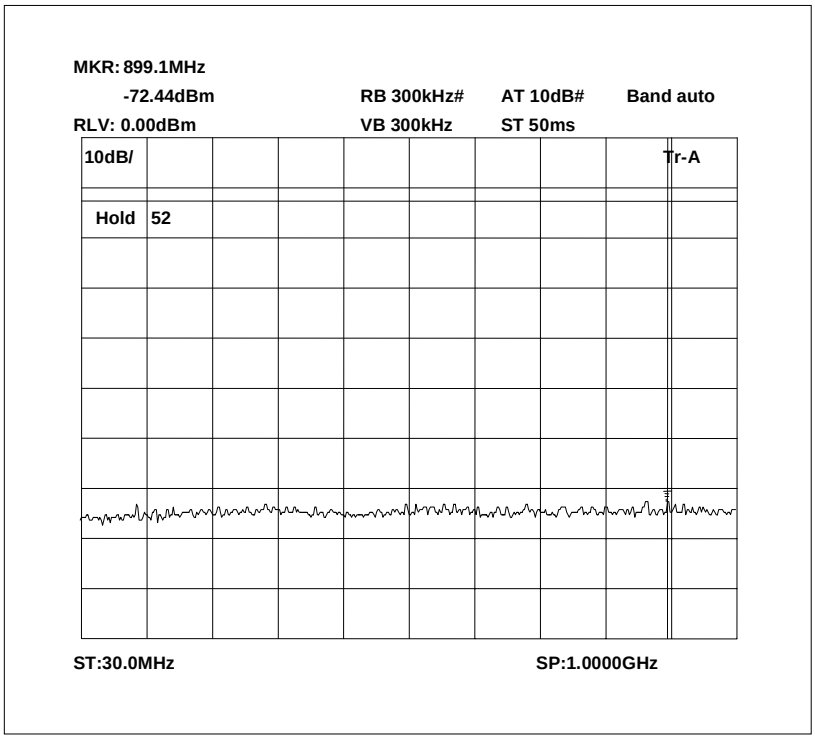


Radiated emissions 844.0MHz 7000MHz – 10000MHz

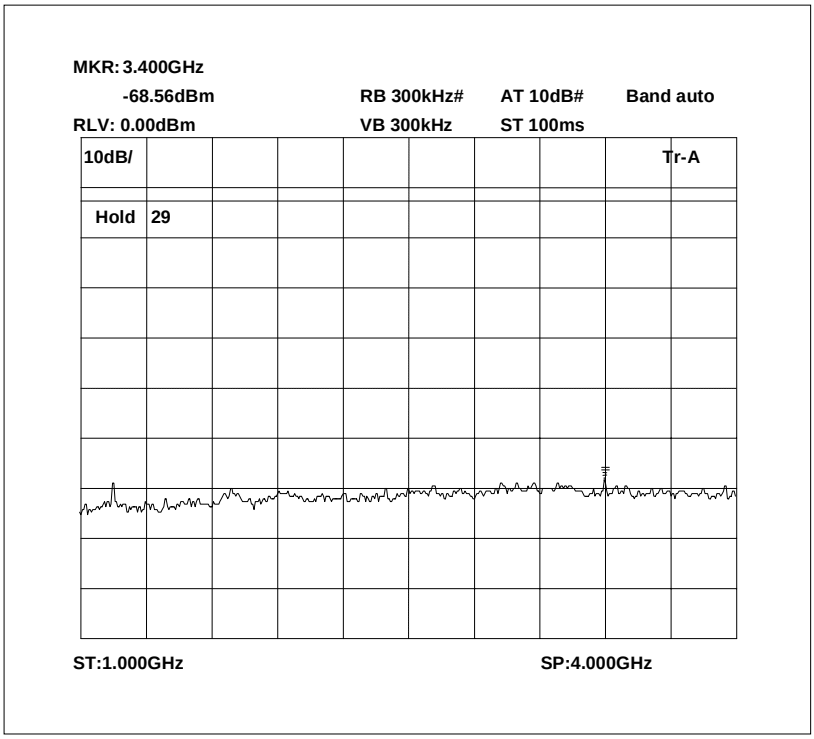


The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions no input signal 30MHz - 1000MHz

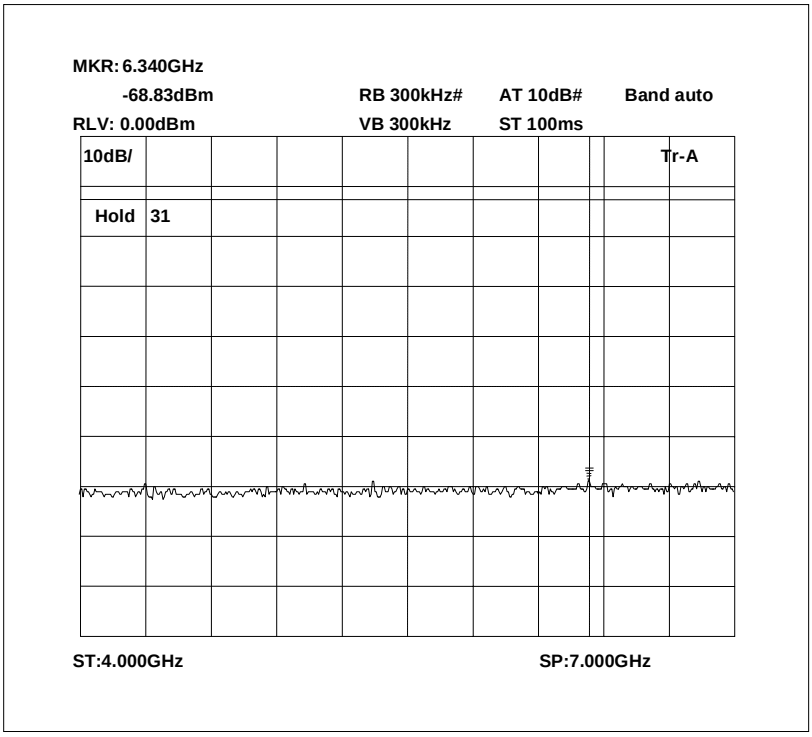


Radiated emissions no input signal 1000MHz - 4000MHz

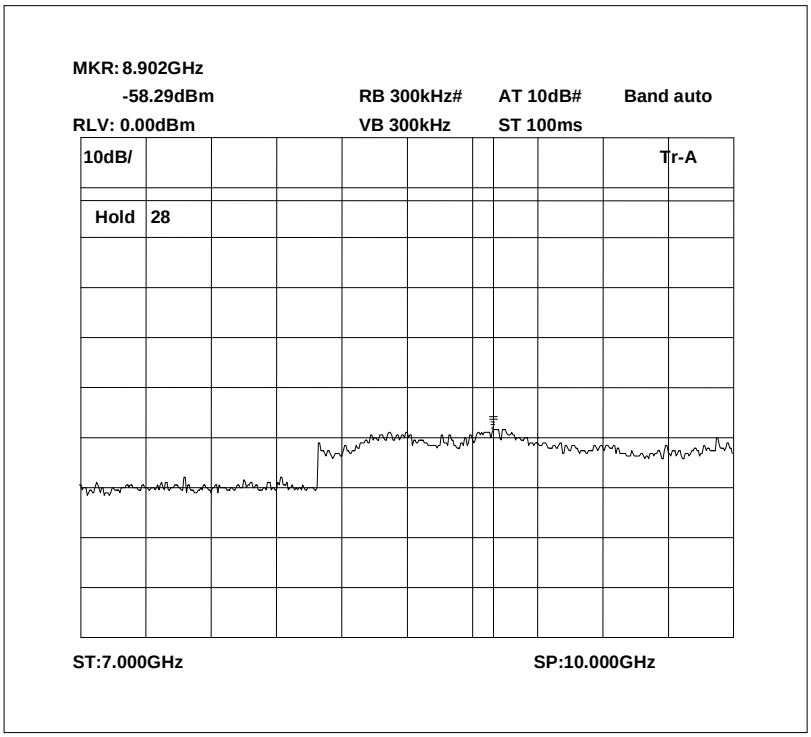


The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions no input signal 4000MHz – 7000MHz



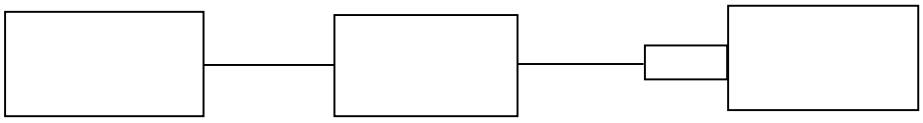
Radiated emissions no input signal 7000MHz – 10000MHz



The above test results show that there were no emissions within 20dBs of the –13dBm limit.

AMPLIFIER GAIN – CONDUCTED – PART 2.1046 – DOWNLINK

Ambient temperature	=	24°C	Radio Laboratory
Relative humidity	=	50%	
Supply voltage	=	+12Vdc & 110Vac	
Channel Frequency	=	See test results	



Signal Generator TRL179 | EUT | Cable & Attenuator | Spectrum Analyser TRL479

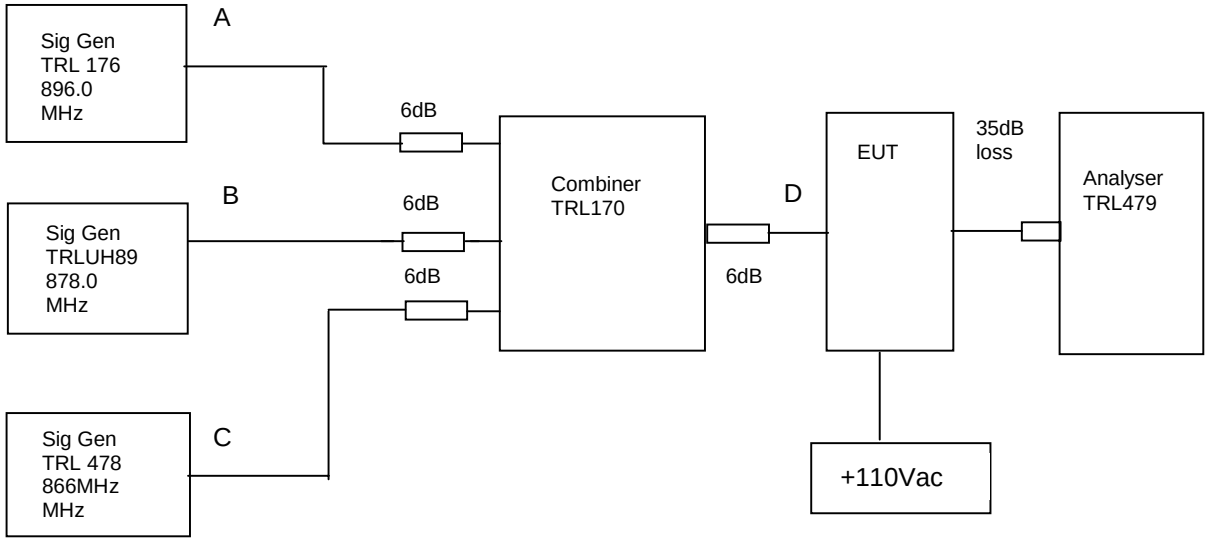
Frequency MHz	Operating Voltage	Signal Generator input level dBm	Cable & Attenuator Loss dB	Level at Spectrum Analyser dBm	Gain dB	Gain after 20dB input level increase dBm
866.0	+12Vdc	-54	35.76	-7.42	82.34	72.55
881.0	+12Vdc	-55	35.79	-7.72	83.07	72.77
896.0	+12Vdc	-56	35.81	-9.58	82.23	72.50
866.0	+110Vac	-54	35.76	-7.42	82.34	72.82
881.0	+110Vac	-55	35.79	-7.72	83.07	73.08
896.0	+110Vac	-56	35.81	-9.50	82.31	72.78

Notes:
1. The level of the signal generator takes into consideration the loss from the cable.
2. The signal generator input was increased by 20dB and the level of the output signal remeasured

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	**X**
ATTENUATOR	BIRD	8304-200	N/A	103	**X**
ATTENUATOR	BIRD	8304-300-N	N/A	220	**X**
CABLE	ROSENBERGER	MICRO COAX	N/A	279	**X**
SIGNAL GENERATOR	MARCONI	2042	119388/080	179	**X**

AMPLIFIER INTERMODULATION SPURIOUS EMISSIONS – CONDUCTED – PART 2.1053– DOWNLINK

Ambient temperature = 25°C Radio Laboratory
Relative humidity = 39%
Supply voltage = 110Vac



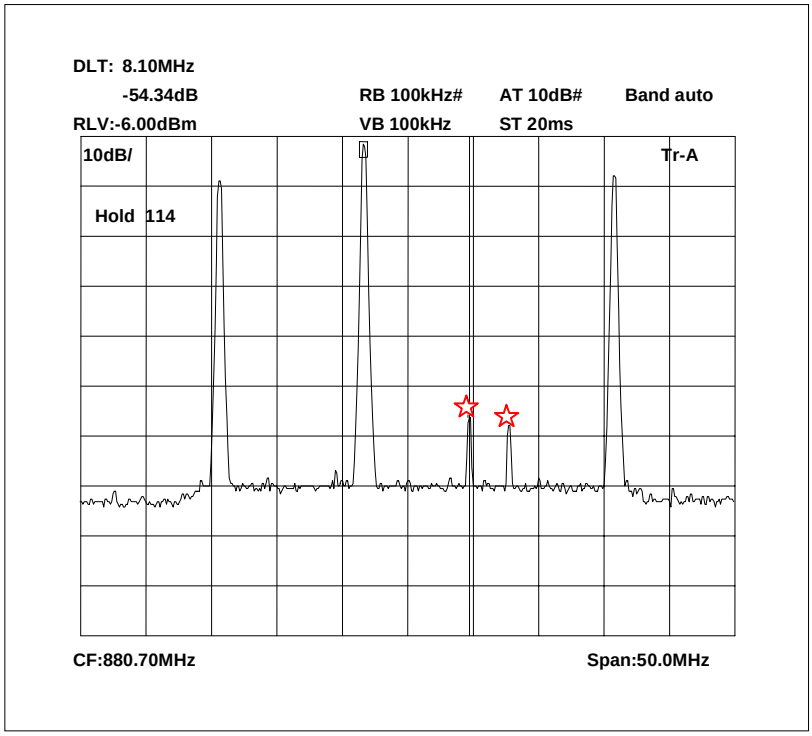
The Intermodualation and spurious products were measured with the amplifier operating at maximum gain. A three tone test was conducted using the equipment as above. The input power level was adjusted so the level at point D was the maximum input of -54dBm. The cable and attenuators loss between the EUT and the spectrum analyser was 35 dB.

Sweep data is shown on the next page:

Test equipment used for intermodulation test

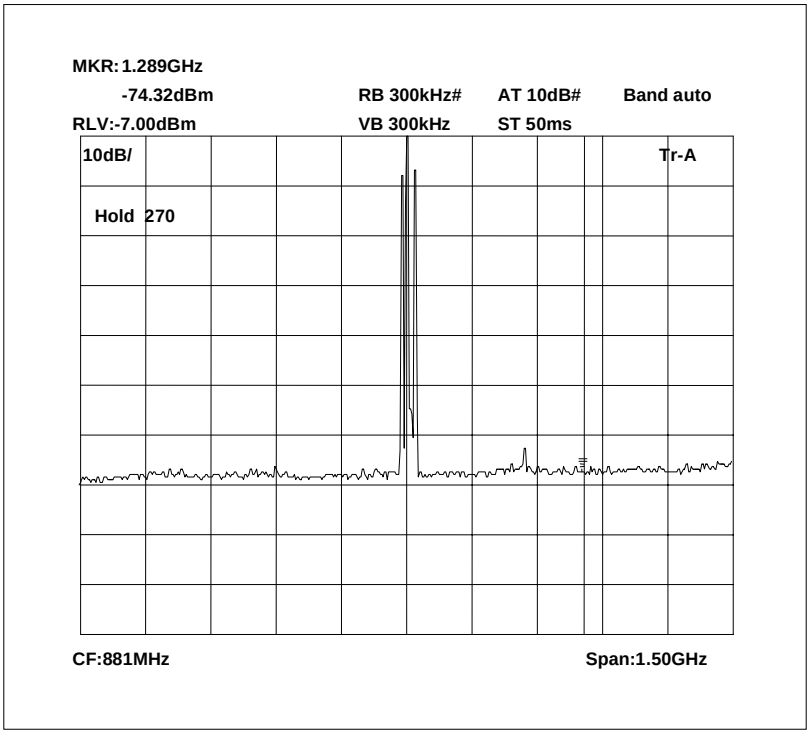
TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	**X**
SIGNAL GENERATOR	RHODE & SCHWARZ	SMR 20	834671/003	478	**X**
SIGNAL GENERATOR	MARCONI	2022D	119224/035	UH89	**X**
SIGNAL GENERATOR	MARCONI	2042	119388/080	176	**X**
COMBINER	ELCOM	RC-4-50	N/A	170	**X**

Intermodulation Inband



The above plot shows that all products (designated by ☆) are at least 50dB below the fundamentals.

Intermodulation Wideband



The above plot shows that there are no products outside the bands.

TRANSMITTER TESTS

AMPLIFIER MODULATED CHANNEL TEST – CONDUCTED – Part 2.1049– DOWNLINK

Ambient temperature	=	20°C	Radio Laboratory
Relative humidity	=	45%	
Supply voltage	=	110Vac	
Channel Frequency	=	See test results	

This test was performed to show that the amplifier does not alter the input signal in any way. The input signal was set to the maximum input level (-54dBm) and modulated with a 2500Hz tone and a 5000Hz tone. The plots show the signal measured at the signal generator and the signal measured at the output of the EUT.

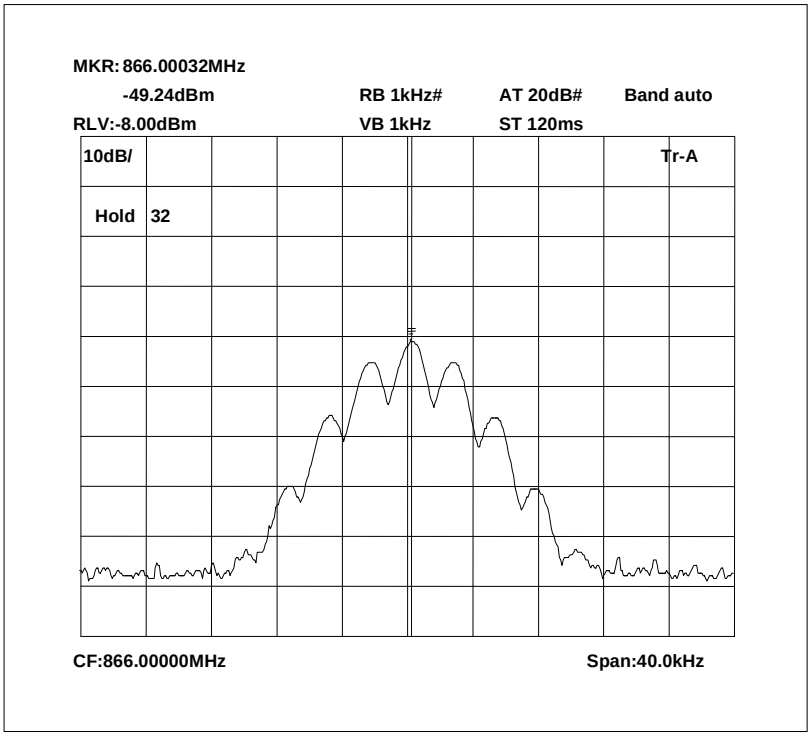
Note: The cables and attenuators had the following losses.

1. Cable and attenuator = 35dB
2. Cable between signal generator and EUT = 0.79dB

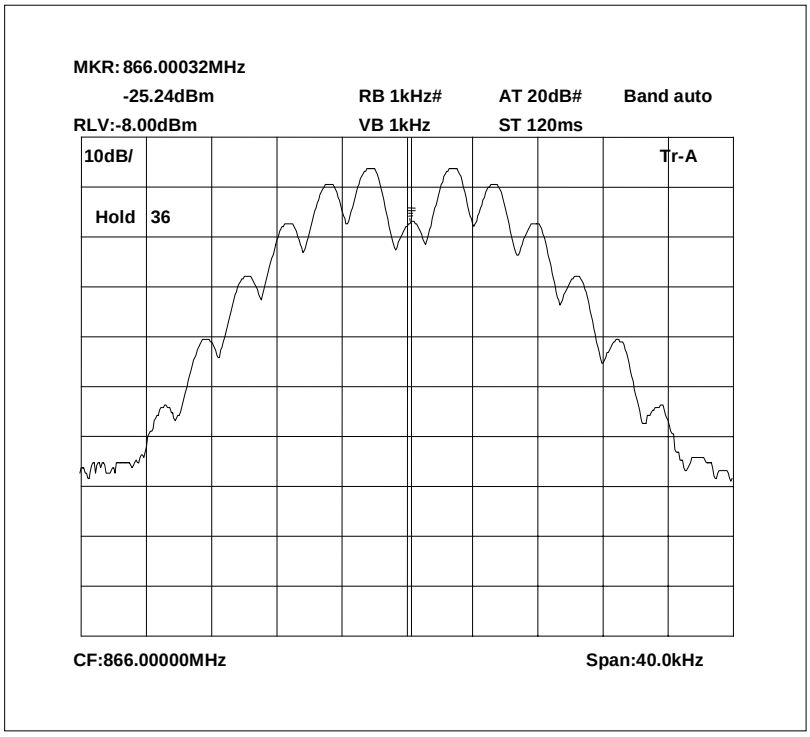
The test equipment used for the Transmitter modulated channel test:

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	**X**
ATTENUATOR	BIRD	8304-300-N	N/A	220	**X**
ATTENUATOR	BIRD	8304-100-N	N/A	222	**X**
CABLE	ROSENBERGER	MICRO COAX	N/A	279	**X**
SIGNAL GENERATOR	MARCONI	2042	119388/080	179	**X**

866.0MHz Signal Generator. FM deviation set to 5kHz

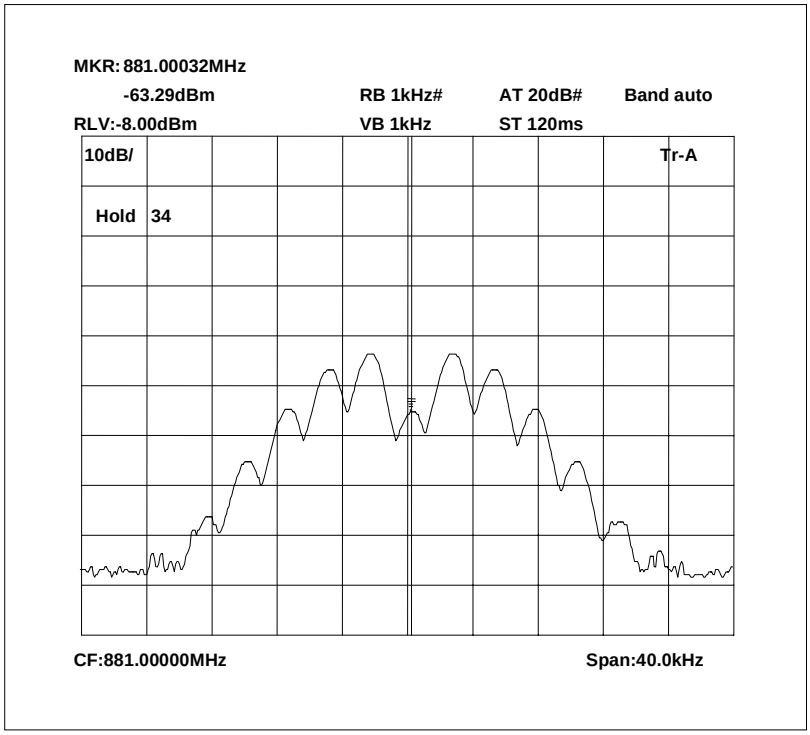


866.0MHz Signal Generator and EUT. FM deviation set to 5kHz

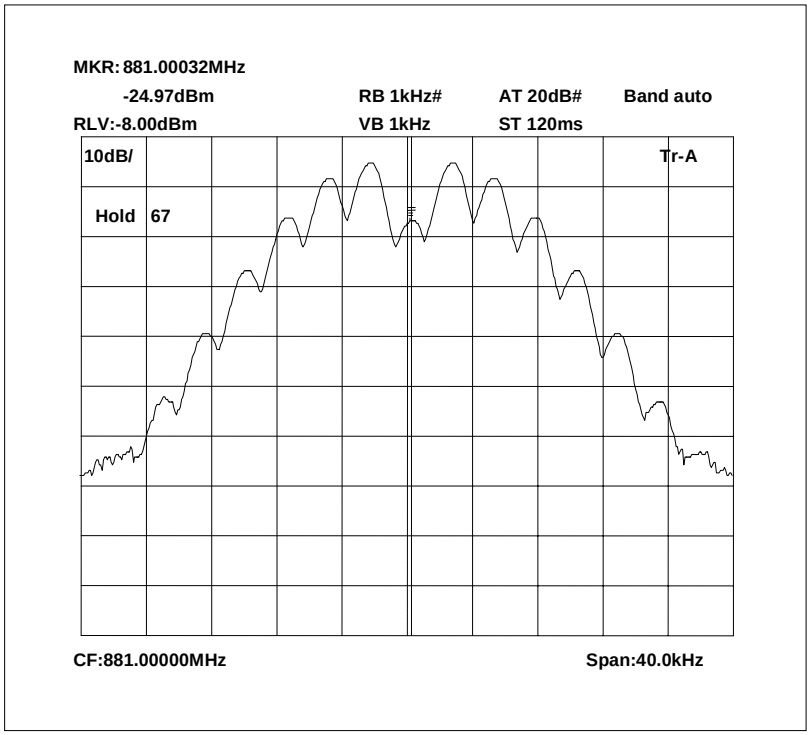


The above plots depicting the output waveshape show no measurable distortion visible. When compared to the input signal.

881.0MHz Signal Generator. FM deviation set to 5kHz

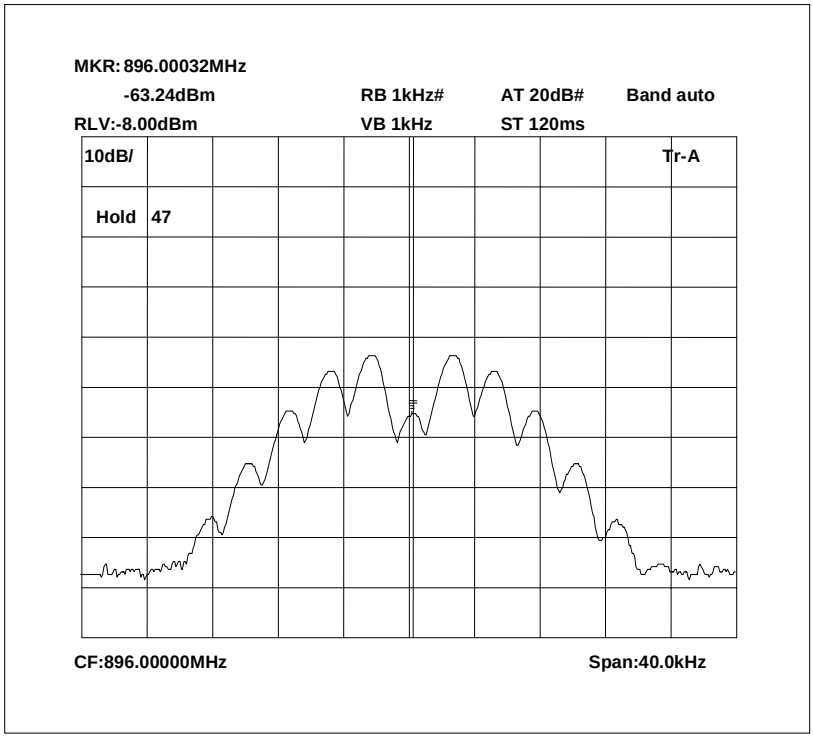


881.0MHJz Signal Generator and EUT. FM deviation set to 5kHz

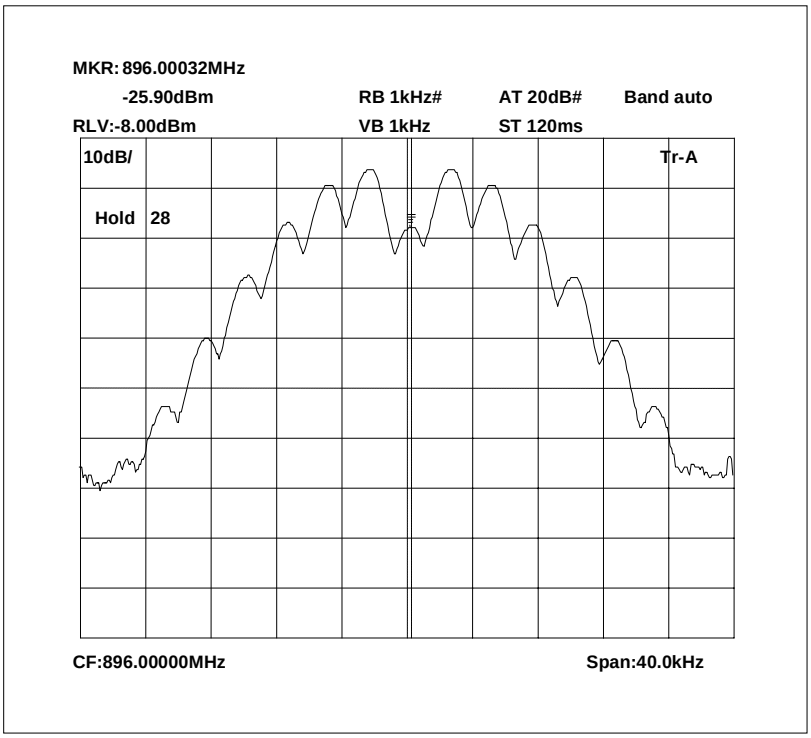


The above plots depicting the output waveshape show no measurable distortion visible. When compared to the input signal.

896.0MHz Signal Generator. FM deviation set to 5kHz



896.0 MHz Signal Generator and EUT. FM deviation set to 5kHz



The above plots depicting the output waveshape show no measurable distortion visible. When compared to the input signal.

TRANSMITTER TESTS

AMPLIFIER SPURIOUS EMISSIONS – CONDUCTED – Part 2.1053 – DOWNLINK

Ambient temperature	=	25°C	Radio Laboratory		
Relative humidity	=	39%	Test Signal	=	F3E
Supply voltage	=	110Vac			

The test was set up as per the diagram. The level at the input was adjusted to compensate for the loss of the interconnecting cable. The unit was tested operating at maximum power and on three test frequencies.

The Spurious limit was calculated as follows:

On any frequency removed from the assigned frequency by more that 250% of the authorised bandwidth

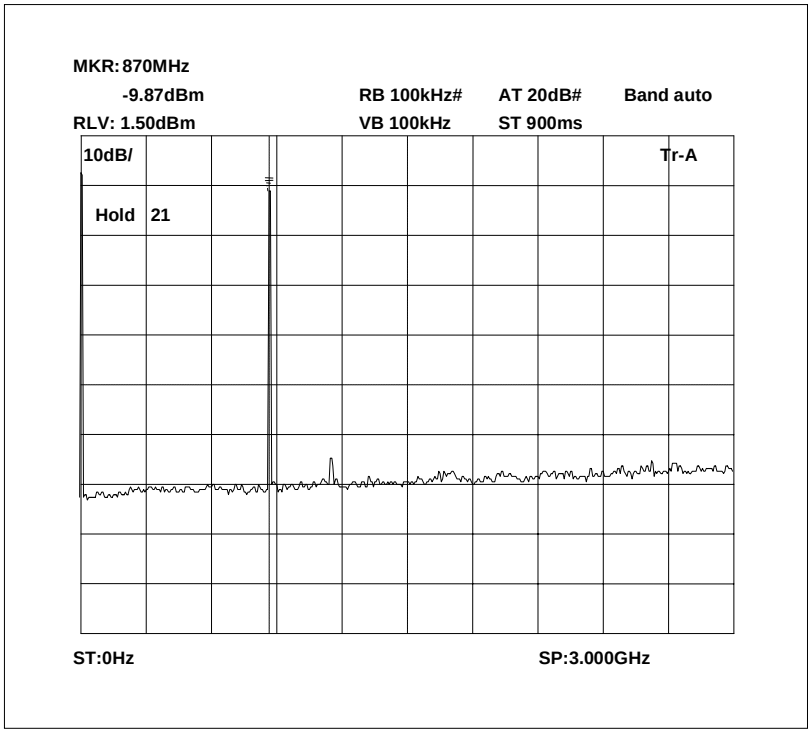
At least 43 + 10 log PdB

$(10\log P_{watts}) – (43+10\log (P_{watts} * 1000)) =$ LIMIT =-13 dBm

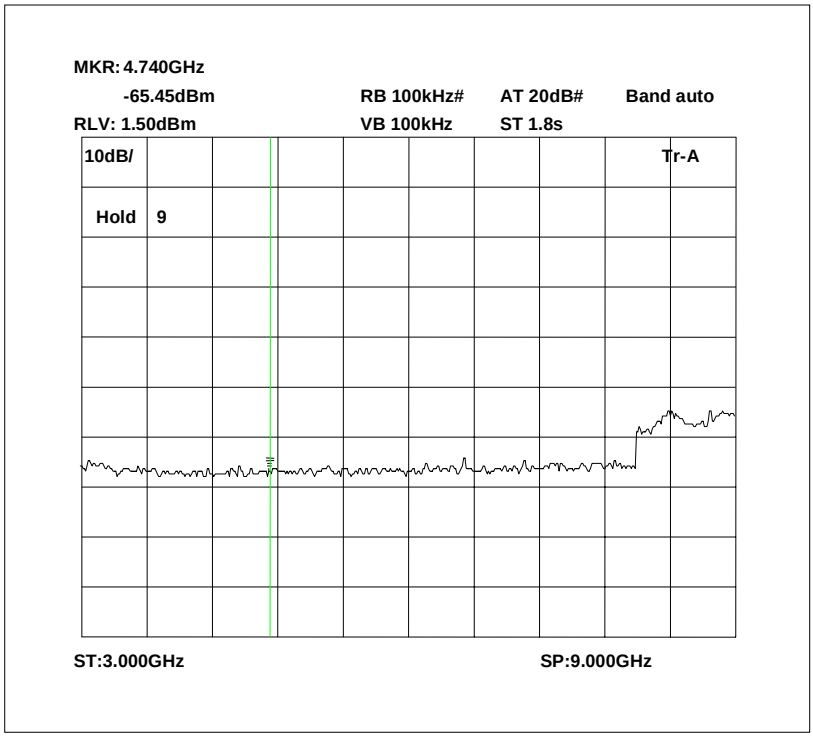
The test equipment used for the Transmitter Conducted Emissions:

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	**X**
ATTENUATOR	BIRD	8304-300-N	N/A	220	**X**
ATTENUATOR	BIRD	8304-100-N	N/A	222	**X**
CABLE	ROSENBERGER	MICRO COAX	N/A	279	**X**
SIGNAL GENERATOR	MARCONI	2042	119388/080	179	**X**

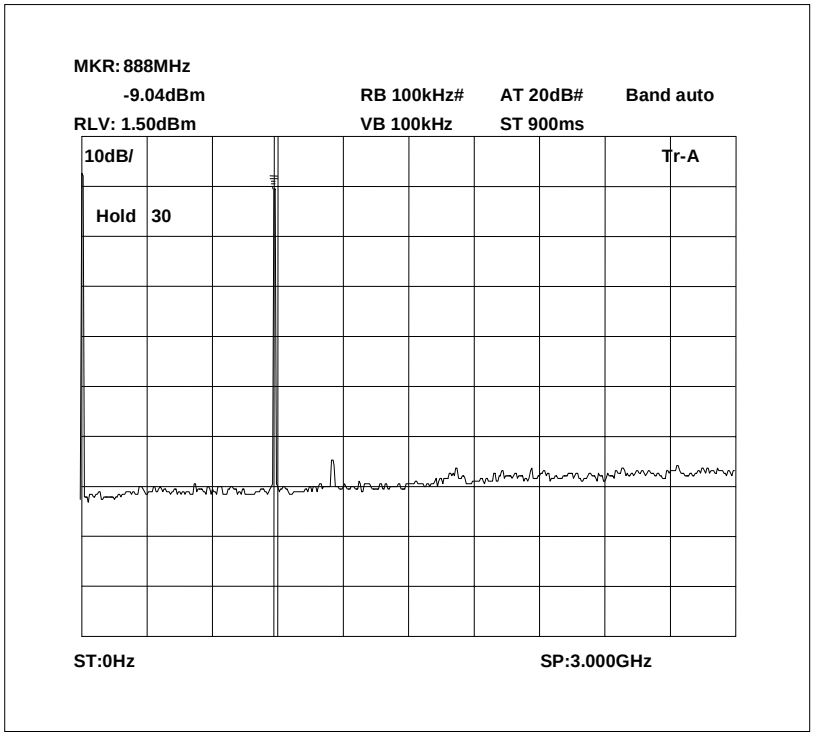
Conducted emissions 866.0 MHz 0MHz – 3000MHz



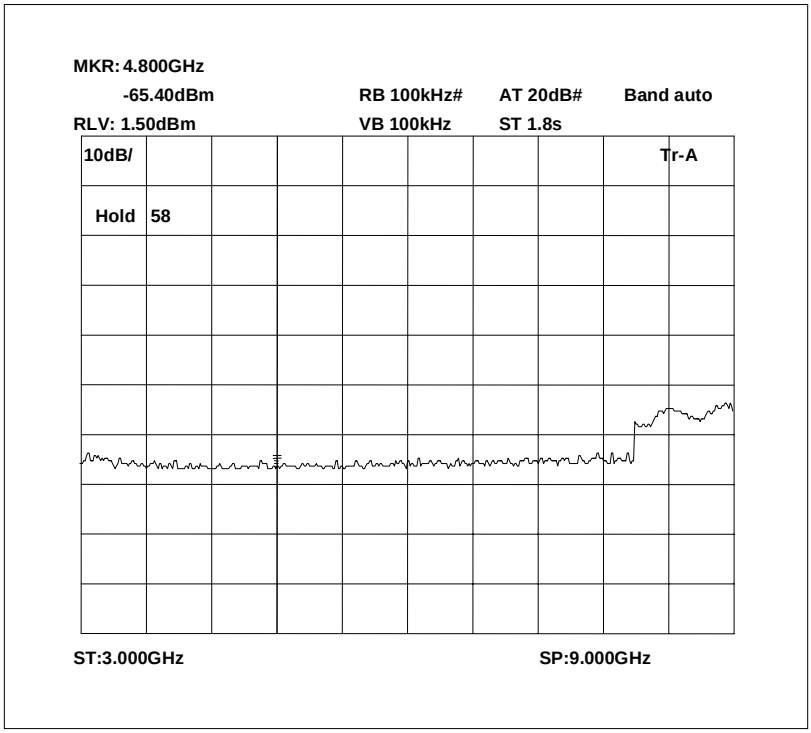
Conducted emissions 866.0 MHz 3000MHz – 9000MHz



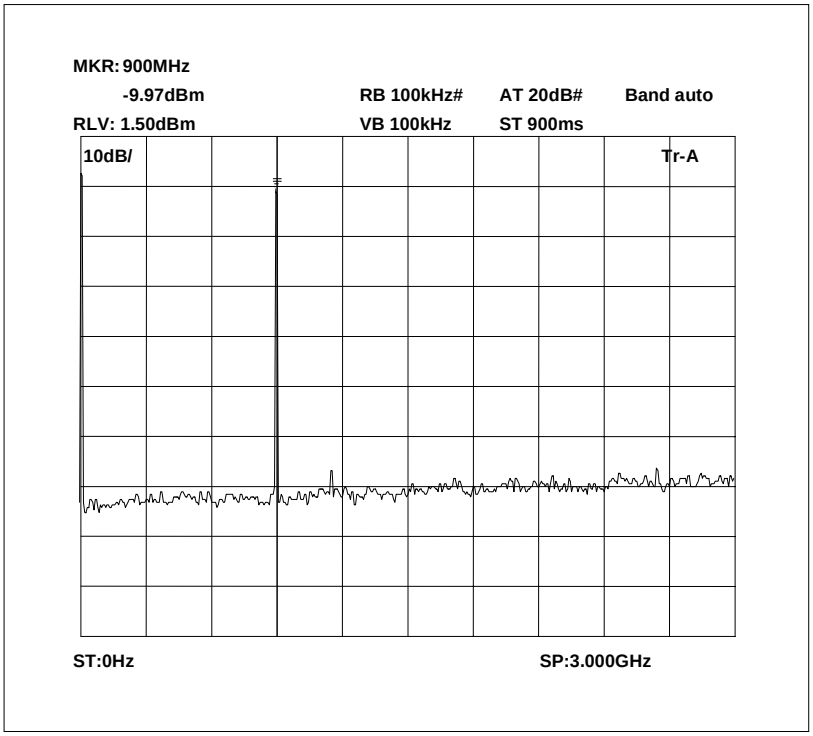
Conducted emissions 881.0 MHz 0MHz – 3000MHz



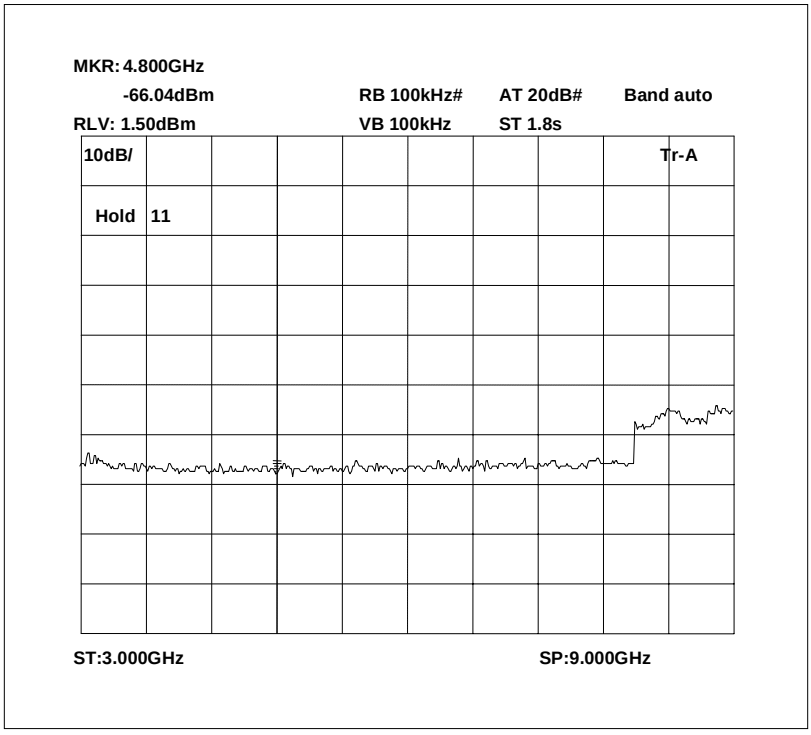
Conducted emissions 881.0 MHz 3000MHz – 9000MHz



Conducted emissions 896.0 MHz 0MHz – 3000MHz



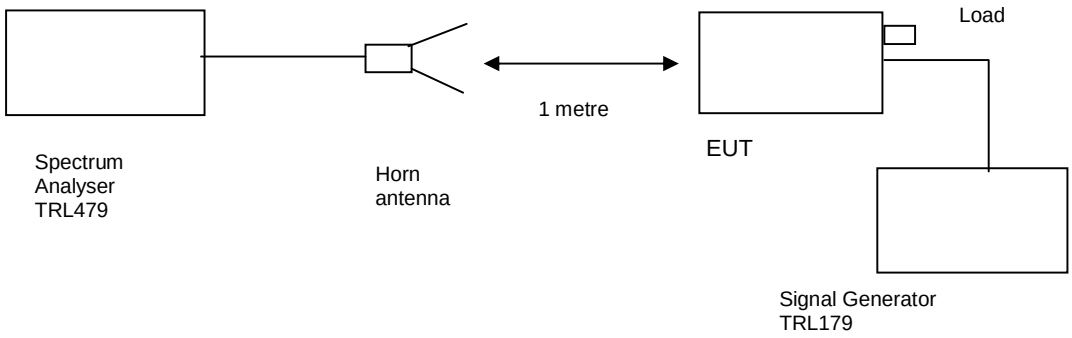
Conducted emissions 896.0 MHz 3000MHz – 9000MHz



TRANSMITTER TESTS

AMPLIFIER SPURIOUS EMISSIONS – RADIATED – Part 2.1053– DOWNLINK

Ambient temperature	=	6°C	Test Signal	=	F3E
Relative humidity	=	39%			
Conditions	=	OATS			
Supply voltage	=	110Vac			
Supply Frequency	=	60Hz			



The test was set up as per the diagram. The level at the input was adjusted to compensate for the loss of the interconnecting cable. The unit was tested operating maximum power on three test frequencies with a 50 ohm load on the output. The unit was also tested with the signal generator replaced by another 50ohm load.

The Spurious limit was calculated as follows:

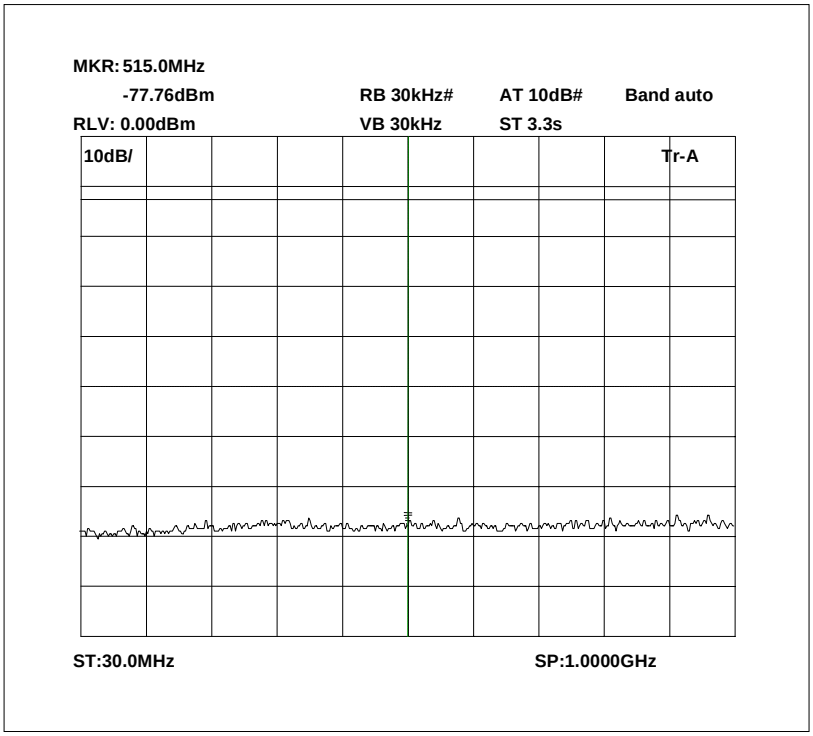
On any frequency removed from the assigned frequency by more that 250% of the authorised bandwidth

At least 43 + 10 log PdB

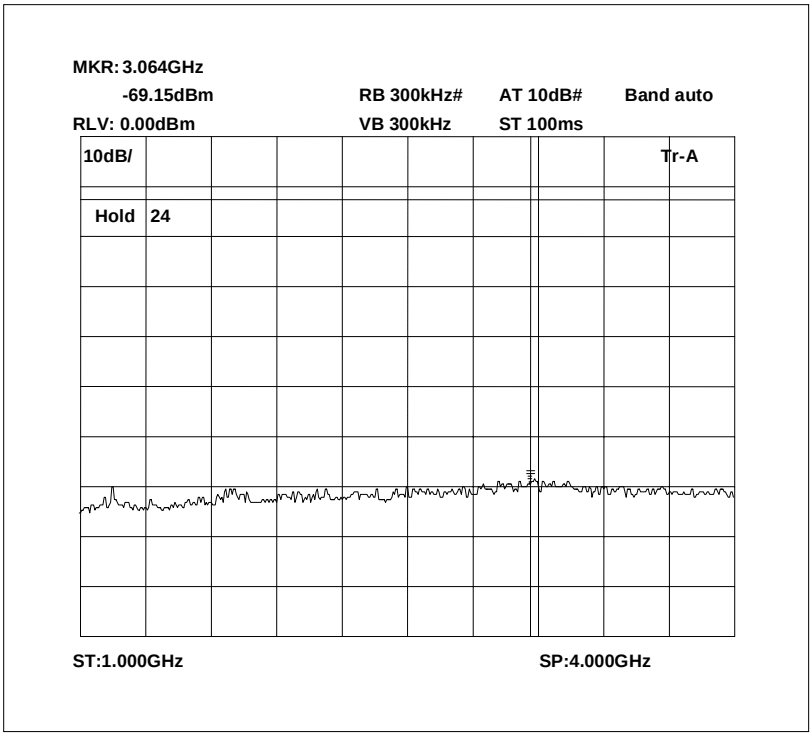
$(10\log P_{watts}) – (43+10\log (P_{watts} * 1000)) =$ LIMIT =-13 dBm

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	**X**
HORN	EMCO	3115	9010-3581	139	**X**
50 OHM LOAD	PHILCO	160B-300	1643	UH139	**X**
50 OHM LOAD	RHODE & SCHWARZ	200.0019.55	300804/32	UH227	**X**
CABLE	ROSENBERGER	MICRO COAX	N/A	280	**X**
SIGNAL GENERATOR	MARCONI	2042	119388/080	179	**X**

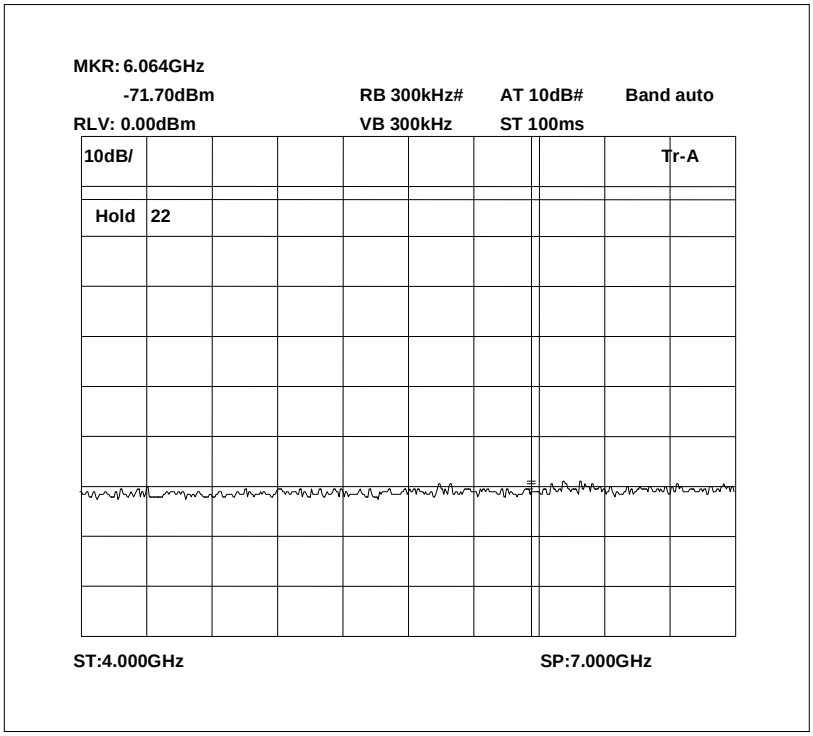
Radiated emissions 866.0 MHz 30MHz – 1000MHz



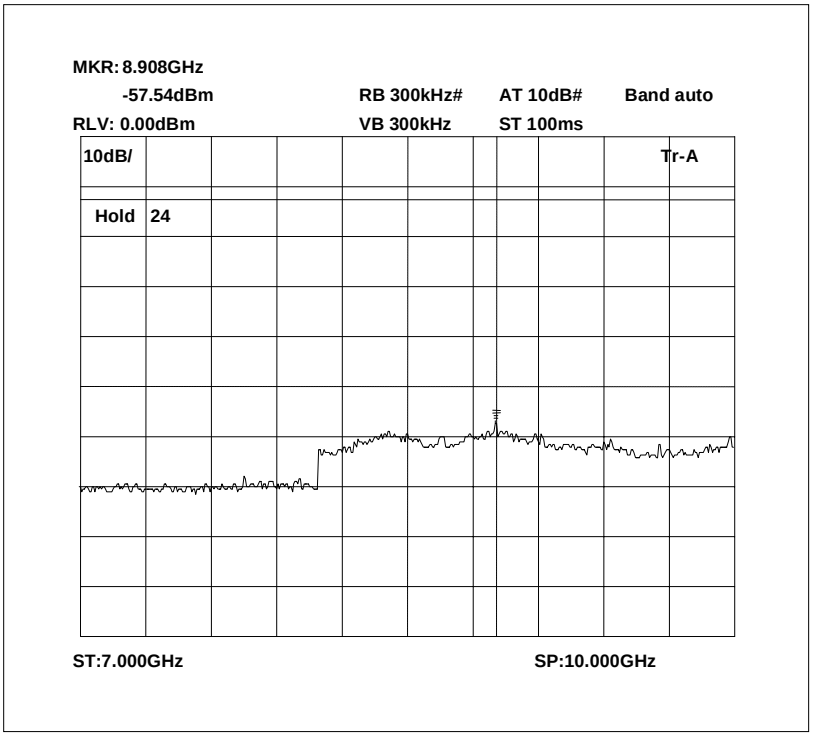
Radiated emissions 866.0 MHz 1000MHz – 4000MHz



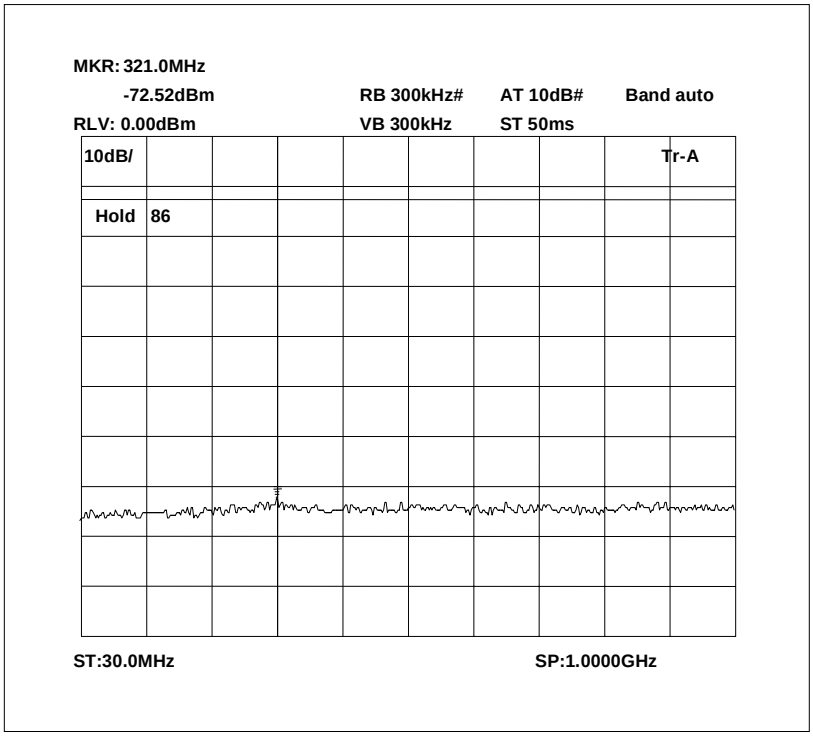
Radiated emissions 866.0 MHz 4000MHz – 7000MHz



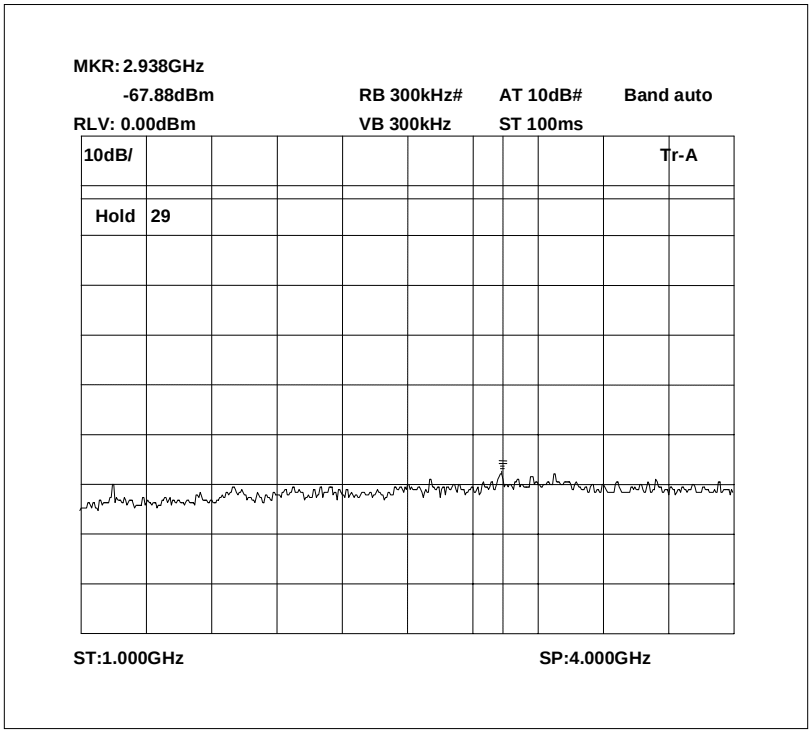
Radiated emissions 866.0 MHz 7000MHz – 10000MHz



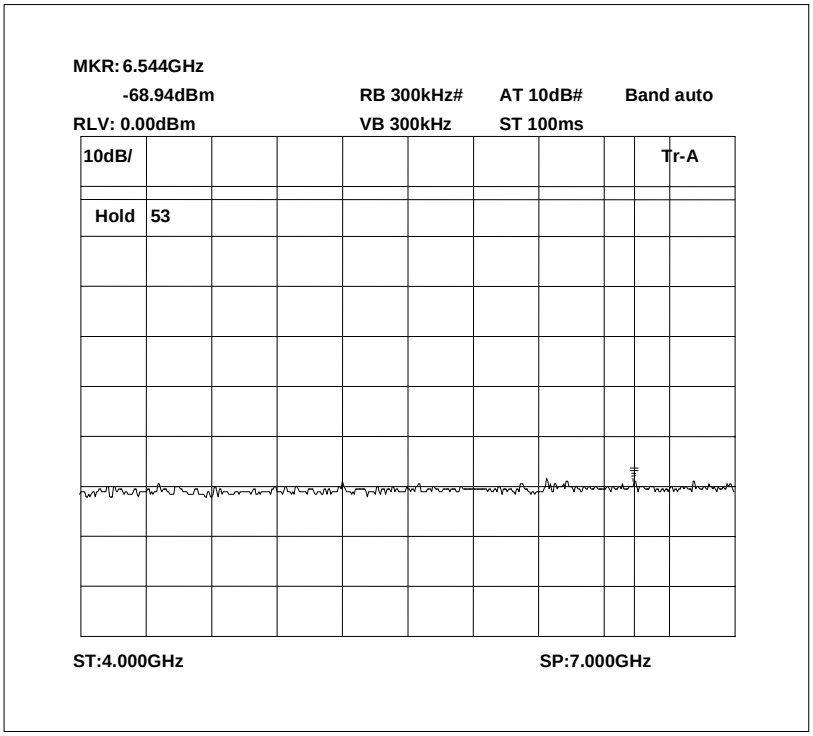
Radiated emissions 881.0 MHz 30MHz – 1000MHz



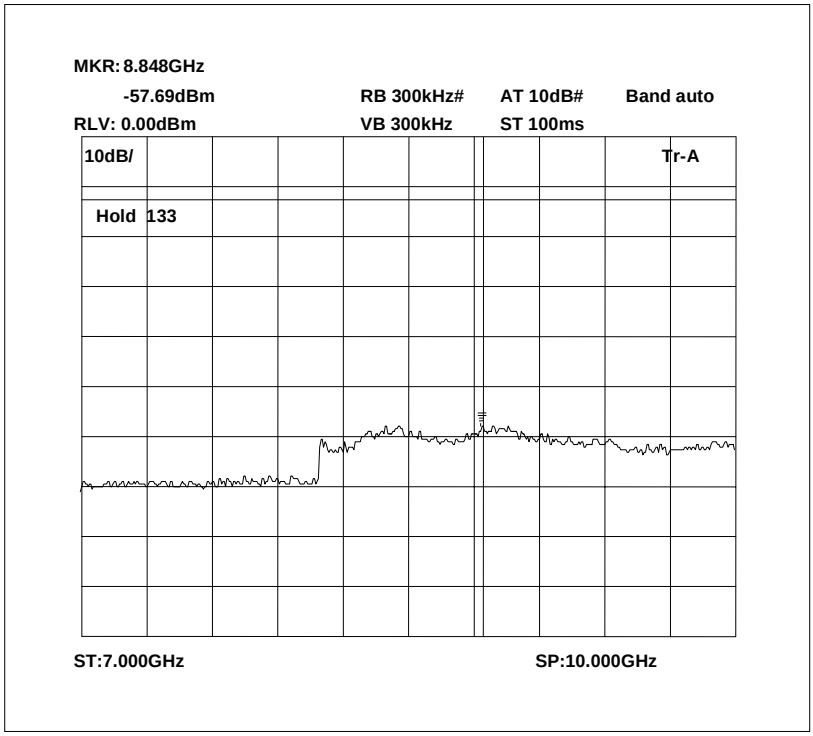
Radiated emissions 881.0 MHz 1000MHz – 4000MHz



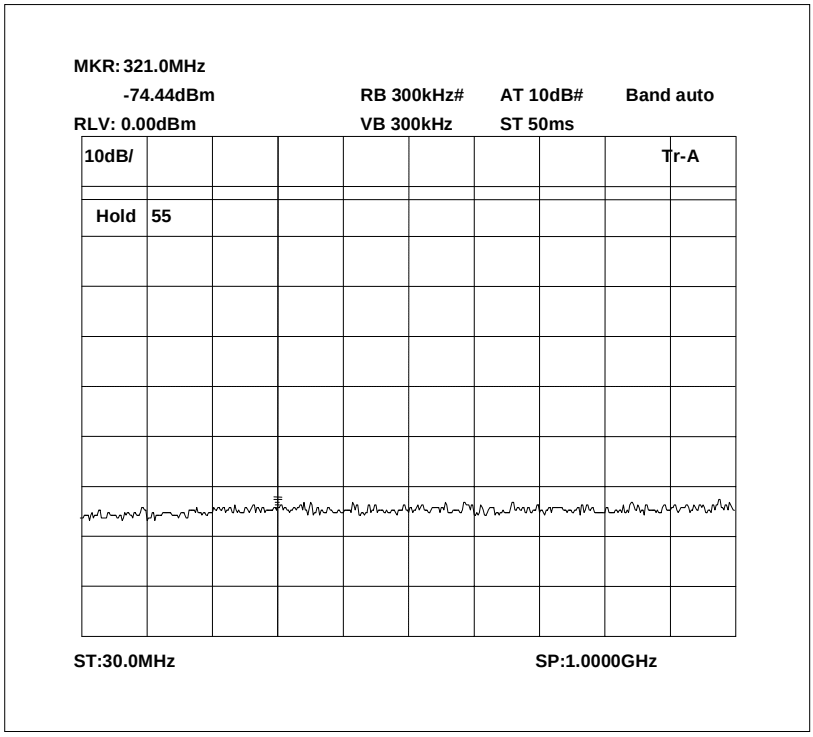
Radiated emissions 881.0 MHz 4000MHz – 7000MHz



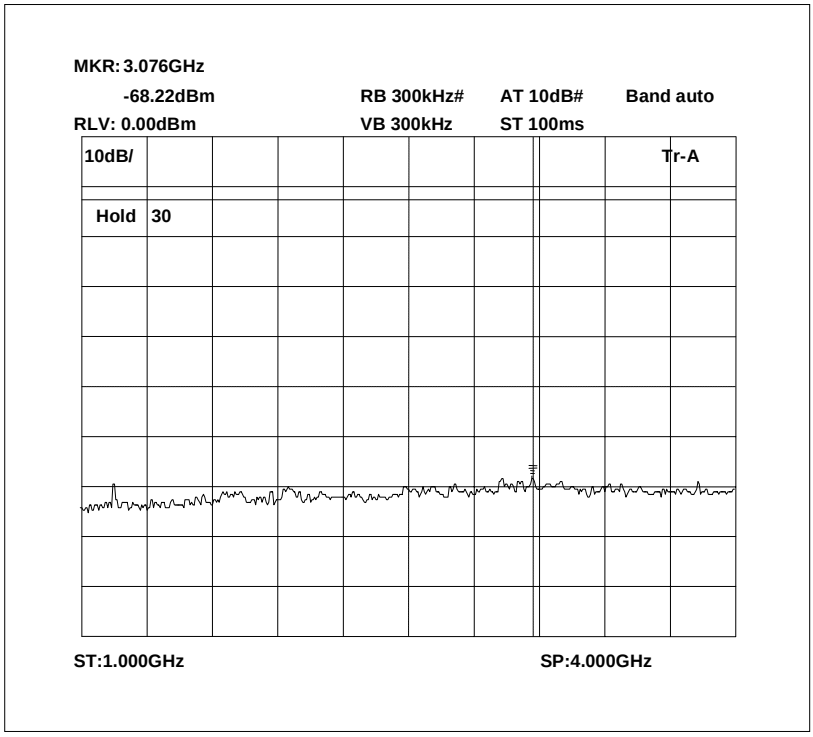
Radiated emissions 881.0 MHz 7000MHz – 10000MHz



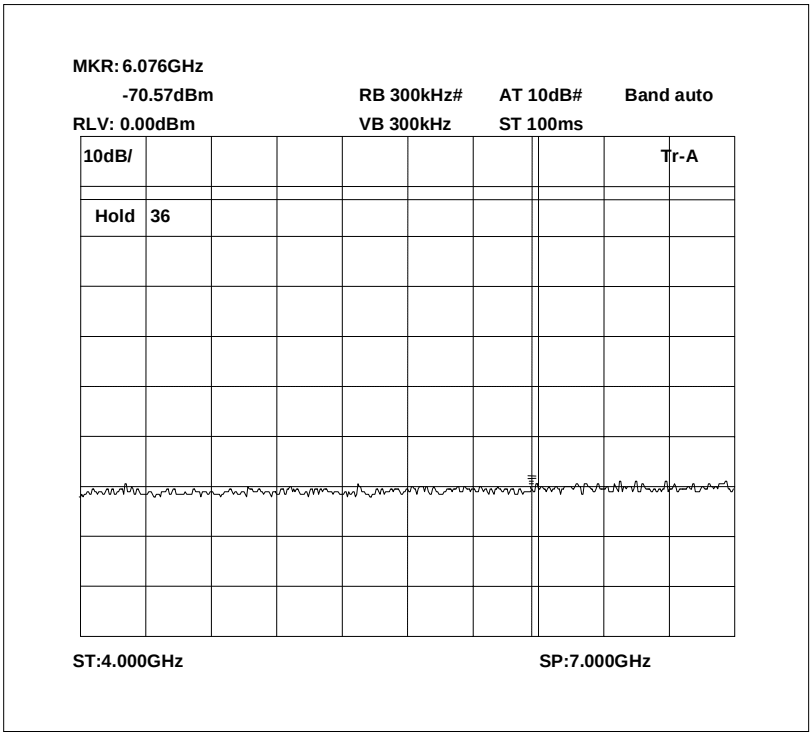
Radiated emissions 896.0 MHz 30MHz – 1000MHz



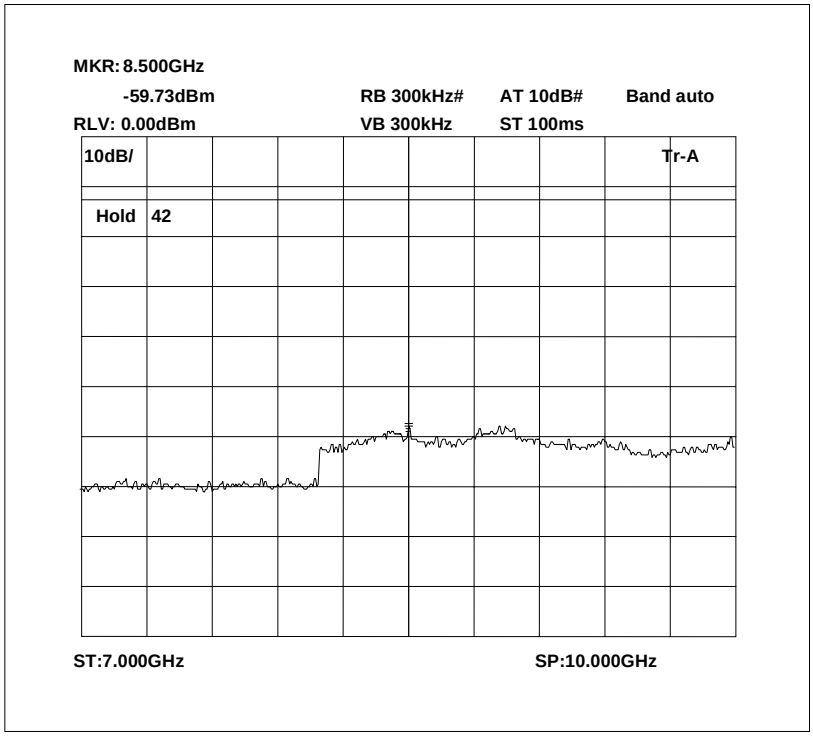
Radiated emissions 896.0 MHz 1000MHz – 4000MHz



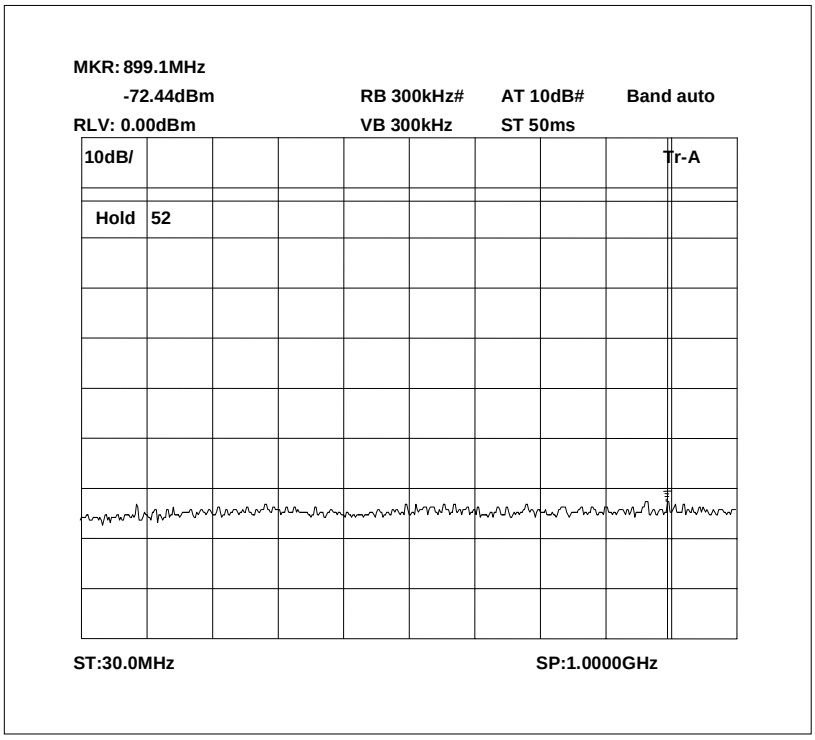
Radiated emissions 896.0 MHz 4000MHz – 7000MHz



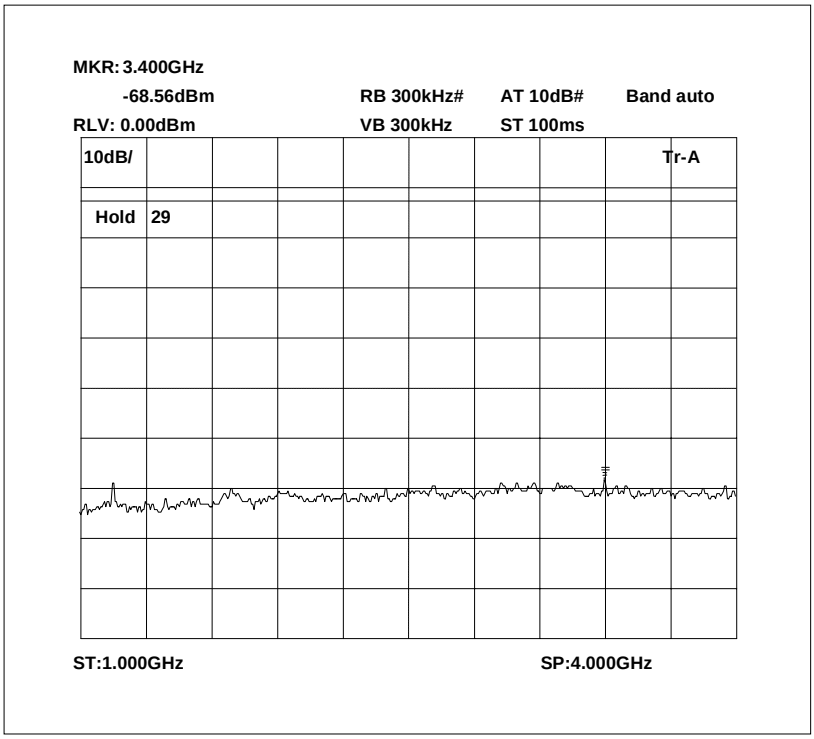
Radiated emissions 896.0 MHz 7000MHz – 10000MHz



Radiated emissions no input signal 30MHz - 1000MHz

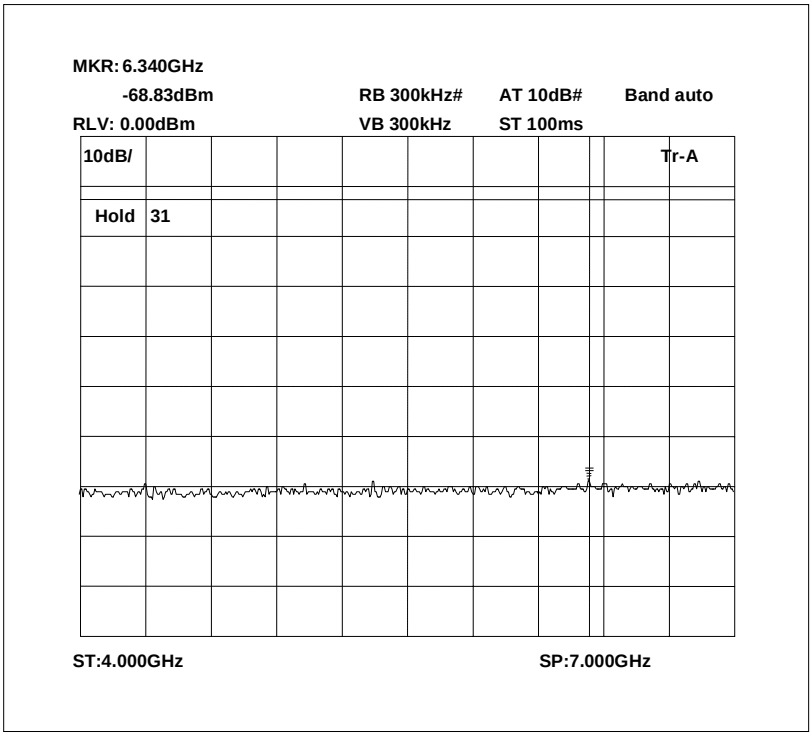


Radiated emissions no input signal 1000MHz - 4000MHz

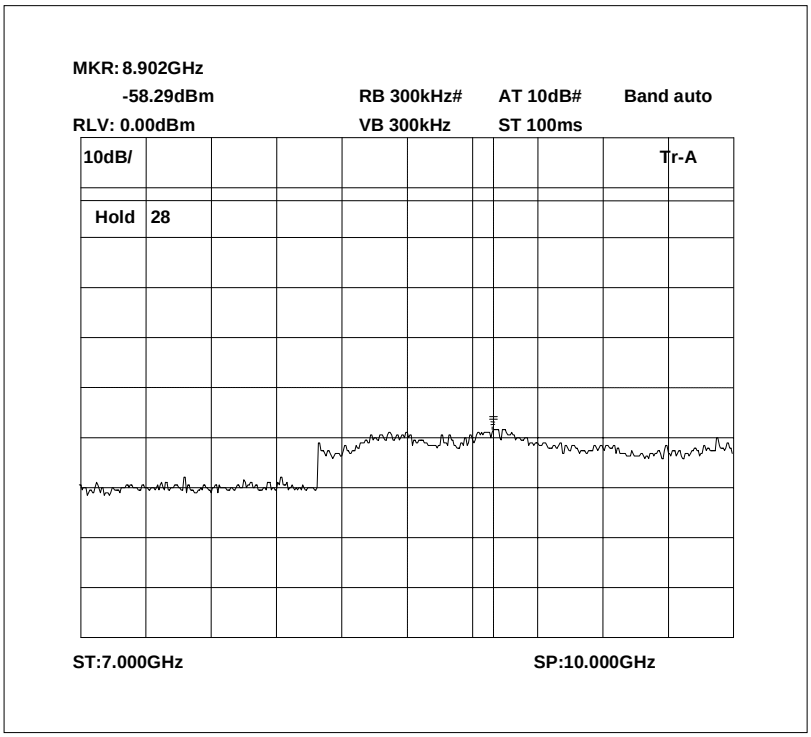


The above test results show that there were no emissions within 20dBs of the –13dBm limit.

Radiated emissions no input signal 4000MHz – 7000MHz



Radiated emissions no input signal 7000MHz – 10000MHz



The above test results show that there were no emissions within 20dBs of the –13dBm limit.

ANNEX A

PHOTOGRAPHS

PHOTOGRAPH No. 1 **CONDUCTED TEST SETUP**

PHOTOGRAPH No. 2 **RADIATED TEST SETUP**

ANNEX B

APPLICANT'S SUBMISSION OF DOCUMENTATION LIST

APPLICANT'S SUBMISSION OF DOCUMENTATION LIST

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