



TEST REPORT NO: RU1062/4568
 COPY NO:
 ISSUE NO: 1
 FCC ID: NEO50-0253Series

**REPORT ON THE CERTIFICATION TESTING OF A
 Aerial Facilities Limited
 VTA 50-0253 UHF Signal Enhancer
 WITH RESPECT TO
 THE FCC RULES CFR 47, PART 90 Subpart L
 PRIVATE LAND MOBLIE REPEATER.**

TEST DATE: 14th – 21st July 2003

TESTED BY: J CHARTERS
 APPROVED BY: P GREEN
 PRODUCT MANAGER
 EMC
 DATE:

Distribution:

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

THIS DOCUMENT MAY BE REPRODUCED ONLY IN ITS ENTIRETY AND WITHOUT CHANGE



CONTENTS

	PAGE	
CERTIFICATE OF CONFORMITY & COMPLIANCE	3	
APPLICANT'S SUMMARY	4	
EQUIPMENT TEST CONDITIONS	5	
TESTS REQUIRED	5	
TEST RESULTS	6-35	
		ANNEX
PHOTOGRAPHS	A	
PHOTOGRAPH No. 1: Test setup		
PHOTOGRAPH No. 2: Test setup		
APPLICANT'S SUBMISSION OF DOCUMENTATION LIST	B	
 Notes:		
1. Component failure during test	YES	<input type="checkbox"/>
	NO	<input checked="" type="checkbox"/>
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: NEO50-0253Series

PURPOSE OF TEST: CERTIFICATION

TEST SPECIFICATION: FCC RULES CFR 47, Part 90 Subpart L

TEST RESULT: Compliant to Specification

EQUIPMENT UNDER TEST: VTA 50-0253 UHF Signal Enhancer

EQUIPMENT SERIAL No: 14084G

EQUIPMENT TYPE: Private Land Mobile Repeater

MAXIMUM GAIN 86.5dBm

MAXIMUM INPUT -57.0dBm

MAXIMUM OUTPUT 29.4dBm

ANTENNA TYPE: Not applicable

CHANNEL SPACING: 12.5kHz

NUMBER OF CHANNELS:

Channel No.	Uplink	Downlink
F1	488.6375 MHz	491.6375 MHz
F2	482.5875 MHz	485.5875 MHz
F3	488.8375 MHz	491.8375 MHz
F5	489.0375 MHz	492.0375 MHz
F6	488.6875 MHz	491.6875 MHz
F7	489.1750 MHz	492.1750 MHz
F8	488.6625 MHz	491.6625 MHz
F9	489.0125 MHz	492.0125 MHz
F10	489.4125 MHz	491.4125 MHz

FREQUENCY GENERATION: N/A

MODULATION TYPE: F3E

POWER SOURCE(s): 115VAC

TEST DATE(s): 14th - 21st July 2003

ORDER No(s): 19800

APPLICANT: Aerial Facilities Limited

ADDRESS: Aerial House
Latimer Park, Latimer
Chesham
Buckinghamshire
HP5 1TU
United Kingdom

TESTED BY: ----- J CHARTERS

APPROVED BY: ----- P GREEN
PRODUCT
MANAGER EMC

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) 22°C
- 5. Supply Voltages: Vnom 115Vac

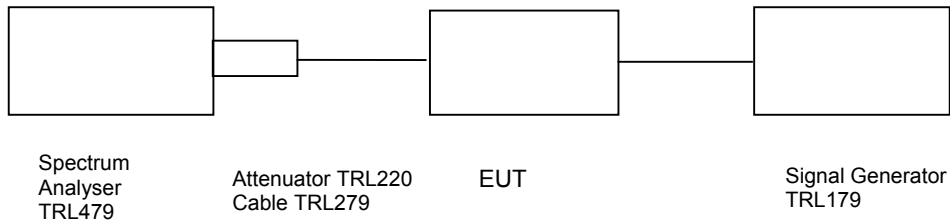
Note: Vnom voltages are as stated above unless otherwise shown on the test report page

- 6. Equipment Category:
 - Single channel
 - Two channel
 - Multi-channel
- 7. Channel spacing:
 - Narrowband
 - Wideband
- 8. Test Location
 - TRL Compliance Services
 - Up Holland
 - Long Green
- 9. Modifications made during test program No modifications were performed.

COMPLIANCE TESTS

AMPLIFIER GAIN – CONDUCTED – PART 2.1046 – UPLINK

Ambient temperature = 23°C Radio Laboratory
 Relative humidity = 59%
 Supply voltage = 115Vac
 Channel number = See test results



Frequency MHz	Signal Generator input level dBm	Cable & Attenuator loss dB	Level at Spectrum Analyser dBm	Gain dB	Gain after 20dB input level increase dBm
482.5875	-57.01	26.75	-9.3	74.46	74.46
488.6375	-57.01	26.75	2.03	85.79	85.79
489.4125	-57.01	26.75	2.51	86.27	86.27

Notes:

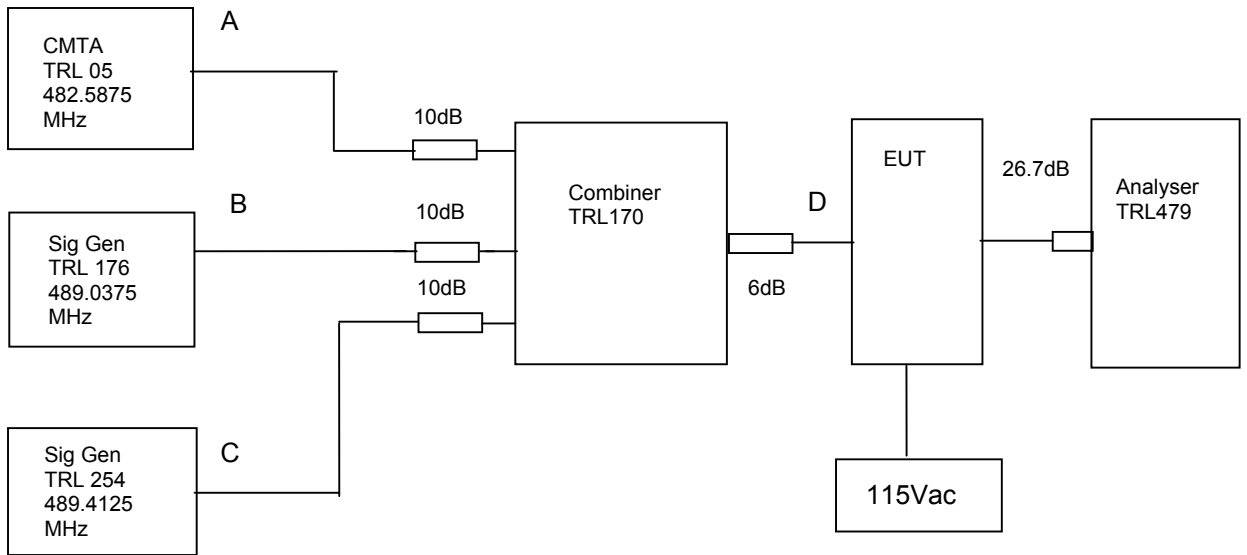
1. The level of the signal generator takes into consideration the loss from the cable.
2. The signal generator input was increased by 20dBs and the level of the output signal remeasured

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
CABLE	ROSENBERGER	MICRO COAX	N/A	279	X
SIGNAL GENERATOR	MARCON	2042	119388/080	179	X

AMPLIFIER INTERMODULATION SPURIOUS EMISSIONS – CONDUCTED – PART 2.1053– UPLINK

Ambient temperature = 23°C
Relative humidity = 59%
Supply voltage = 115Vac

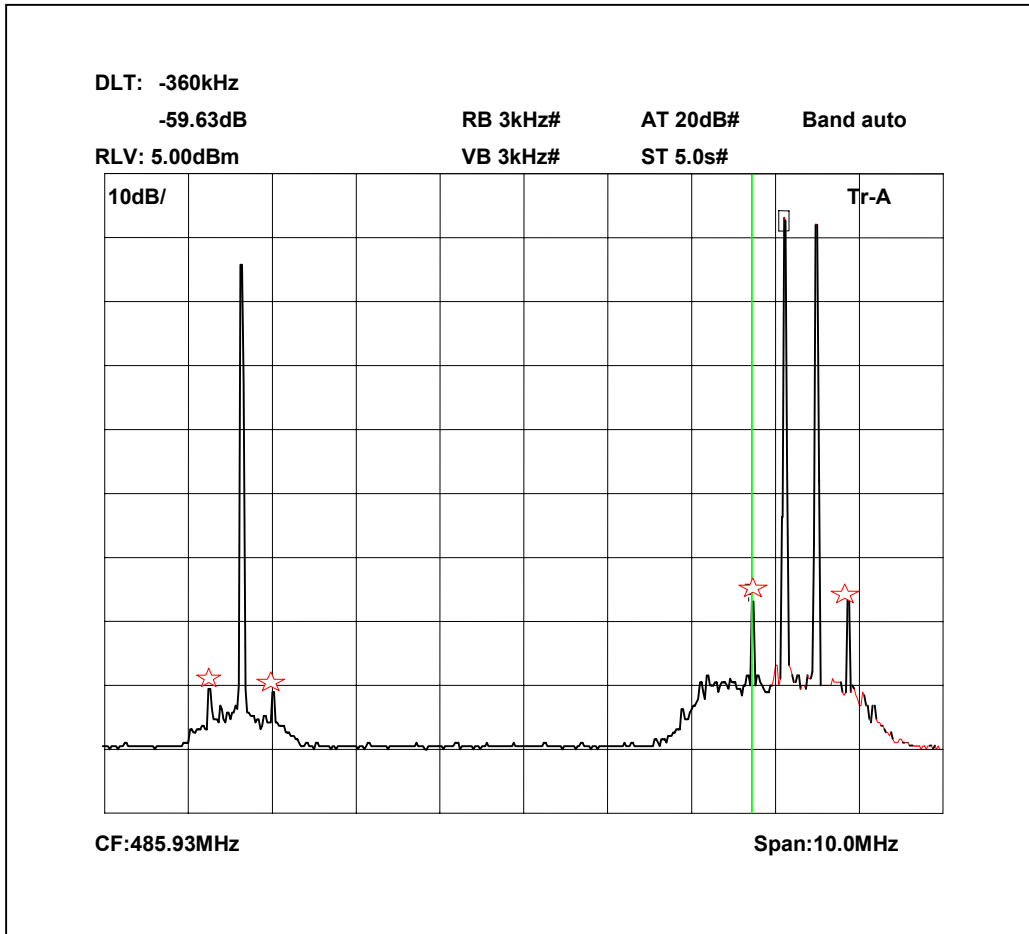
Radio Laboratory



The Intermodulation 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 57.1dBm. The cable and attenuator loss between the EUT and the spectrum analyser was 26.75 dB.

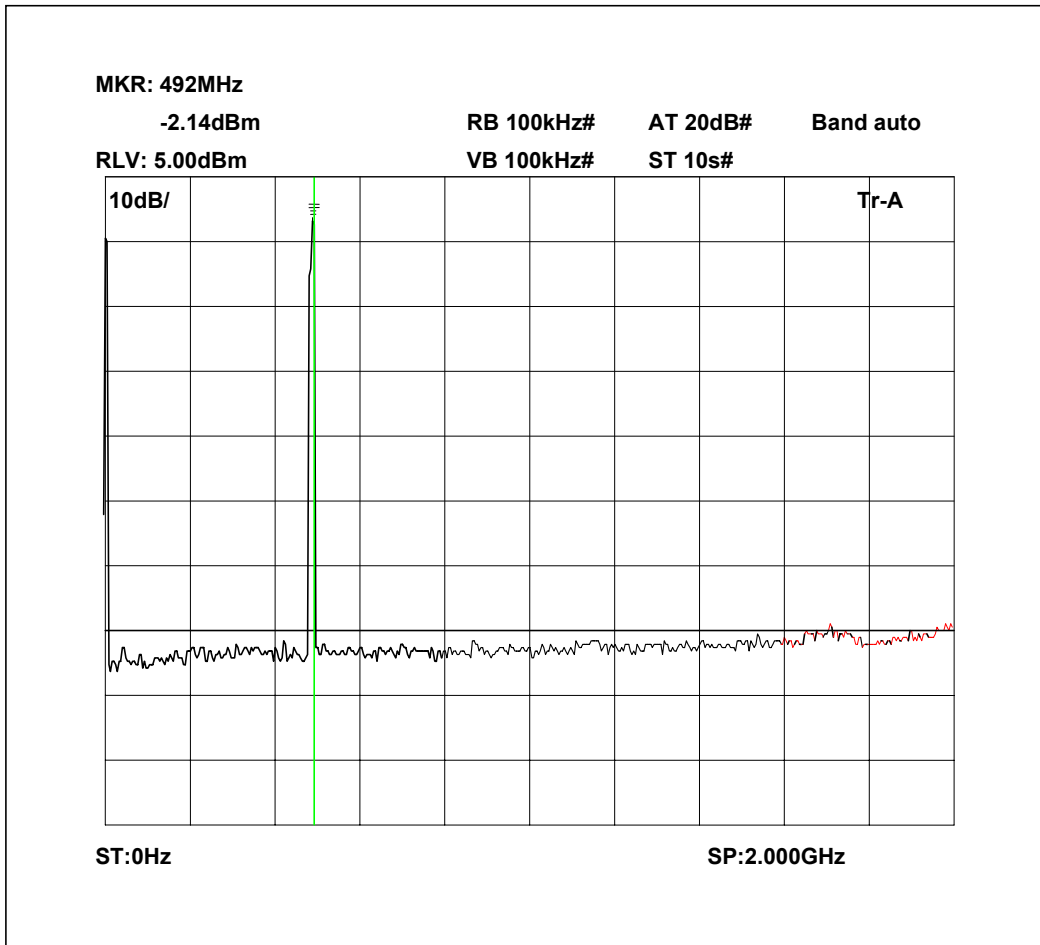
Sweep data is shown on the next page:

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.

Test equipment used for intermodulation test

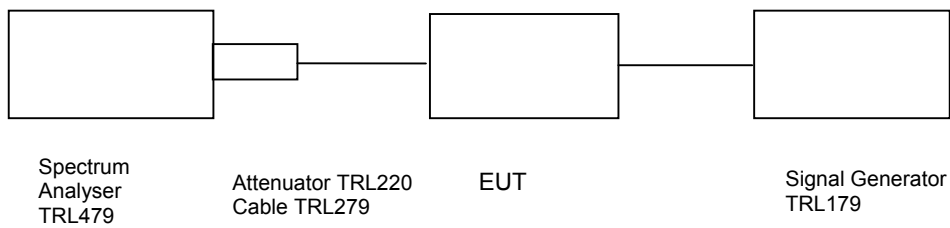
TYPE OF EQUIPMENT	MAKER/SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	X
SIGNAL GENERATOR	MARCON	2042	119562/02	254	X
CMTA	ROHDE & SCHWARZ	CMTA52	894715/033	05	X
SIGNAL GENERATOR	MARCON	2042	119388/080	179	X
COMBINER	ELCOM	RC-4-50	N/A	170	X

TRANSMITTER TESTS

AMPLIFIER MODULATED CHANNEL TEST – CONDUCTED – Part 2.1049– UPLINK

Ambient temperature = 23°C
Relative humidity = 54%
Supply voltage = 115Vac
Channel number = See test results

Radio Laboratory

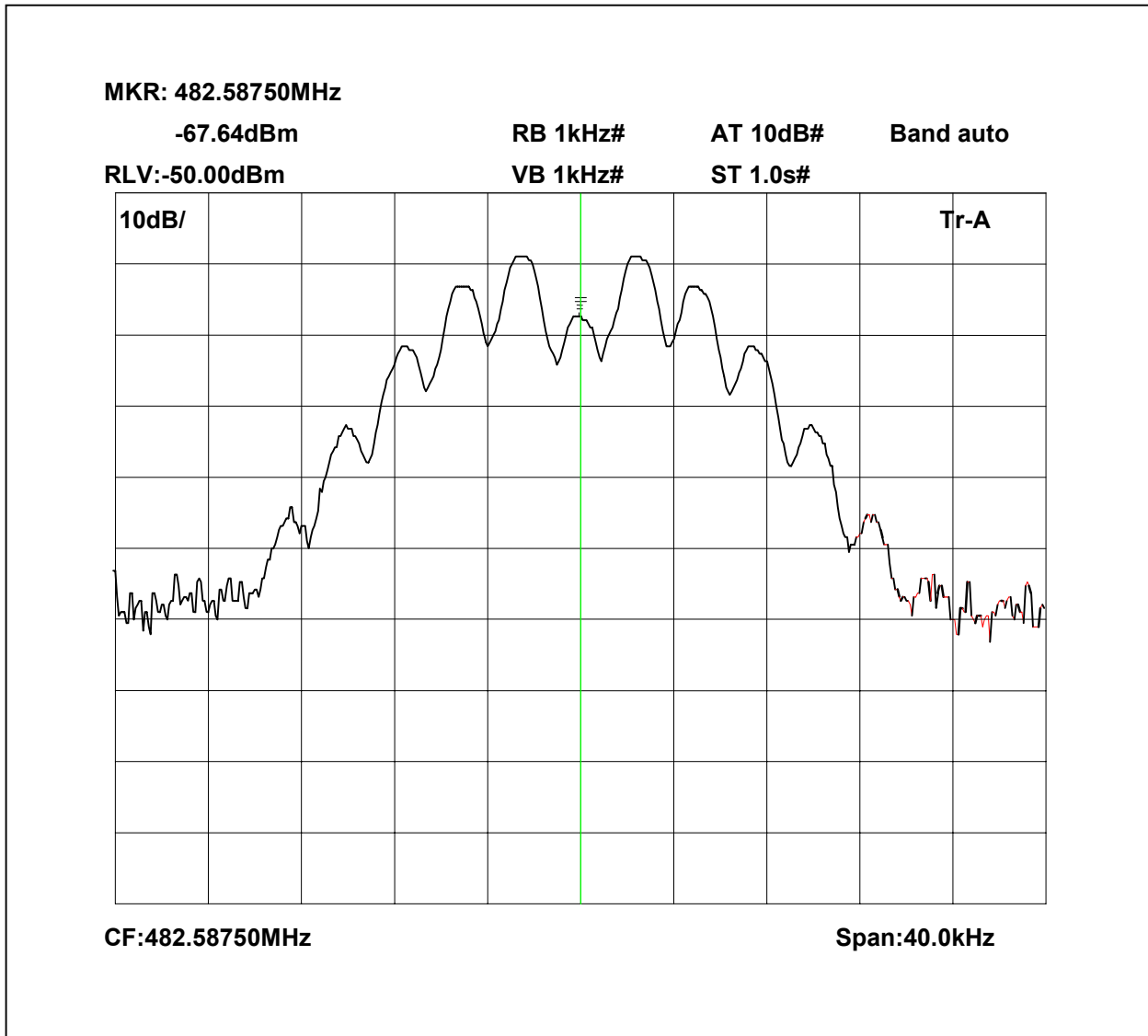


This test was performed to show that the amplifier does not alter the input signal in any way. The input signal was set to the maximum input level (-57.1dBm) and modulated with a 2500Hz tone. The plots show the signal measured at the signal generator and the signal measured at the output of the EUT.

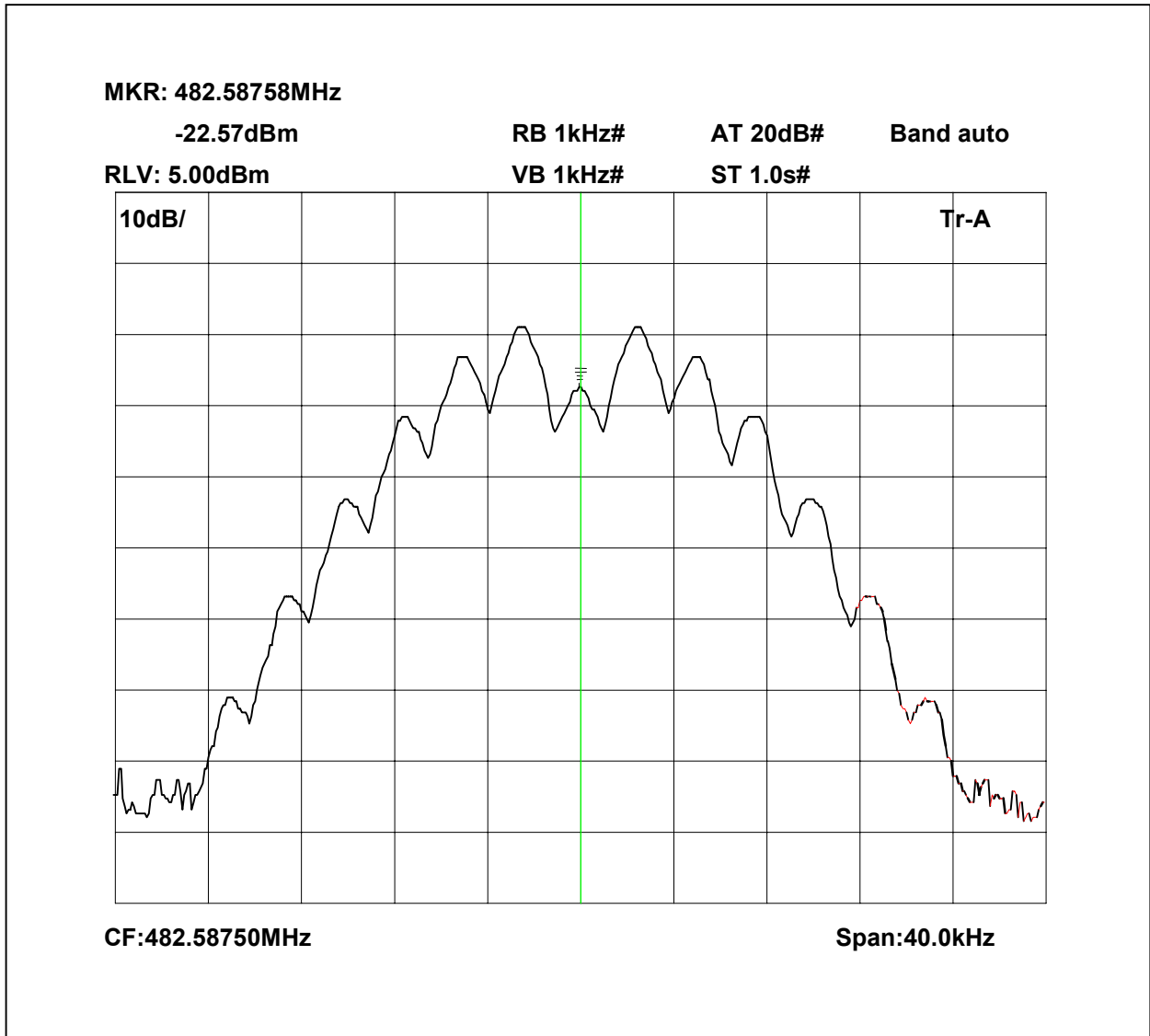
Note: The cables and attenuators had the following losses.

1. Cable TRL279 and attenuator TRL220 26.75dB
2. Cable between signal generator and EUT 0.4dB

482.5875MHz Signal Generator deviation set to 5kHz

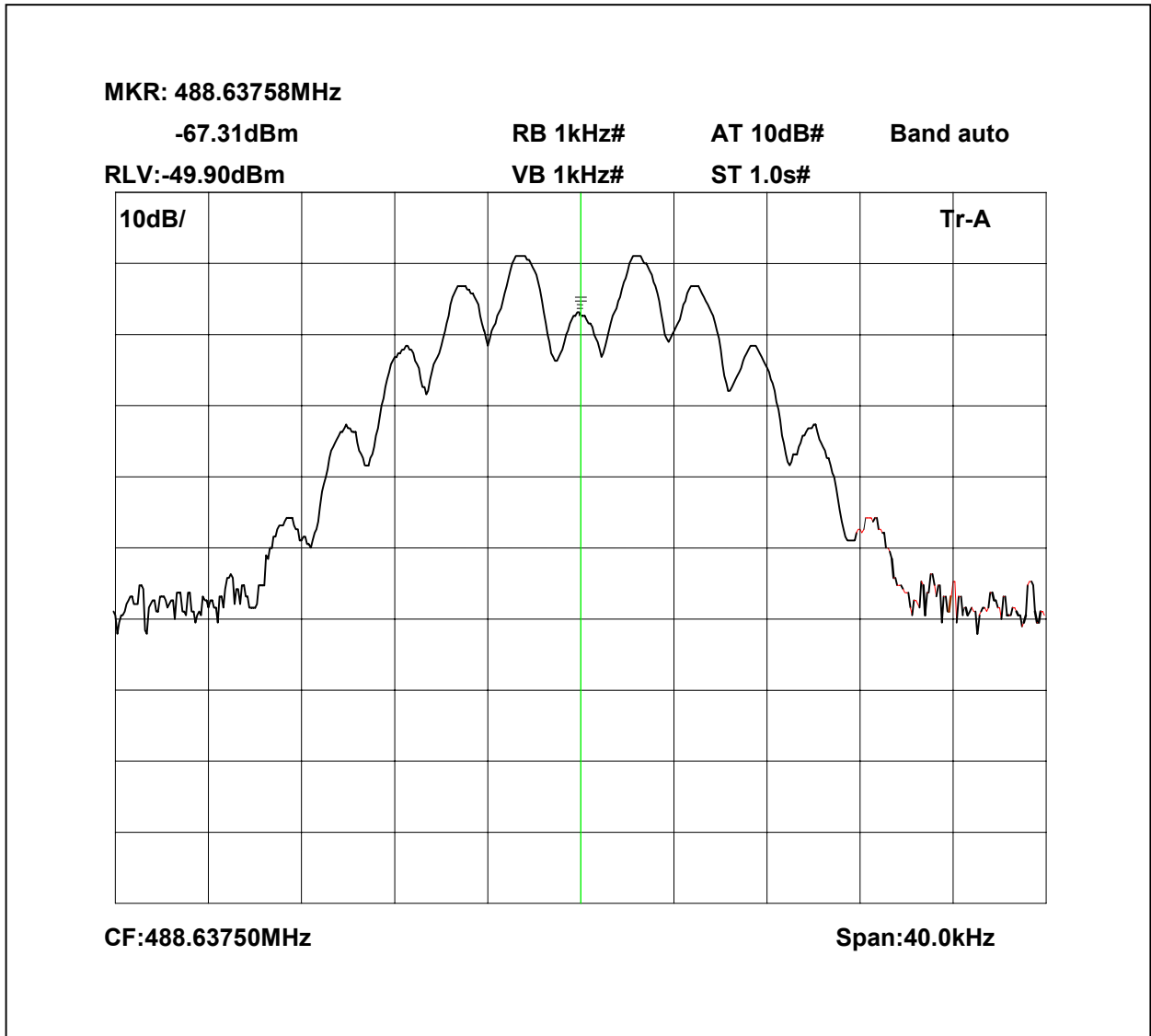


482.5875MHz Signal Generator and EUT deviation set to 5kHz

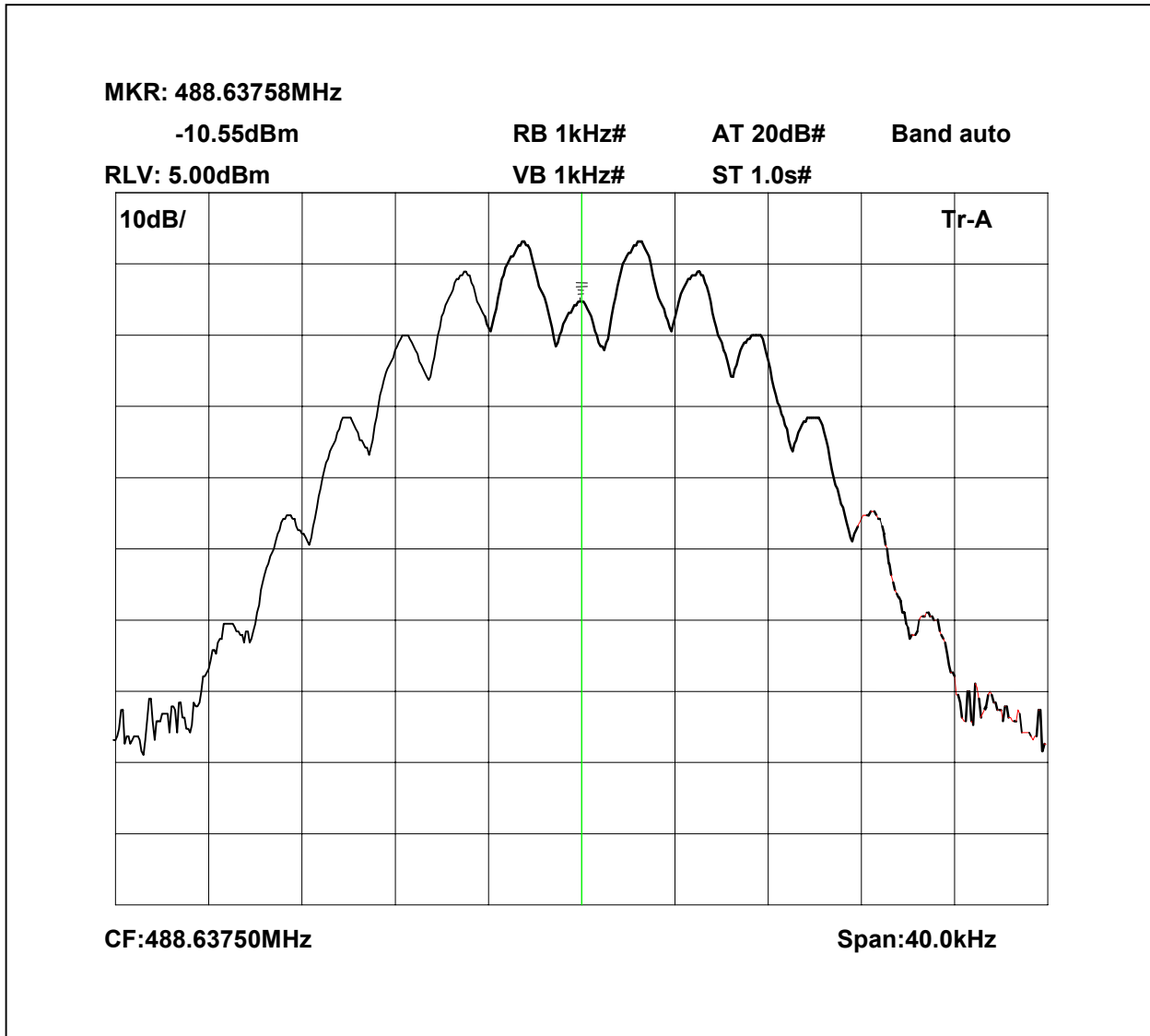


The above plots depicting the output waveshape show no measurable distortion visible. When compared to the input signal.

488.6375MHz Signal Generator deviation set to 5kHz

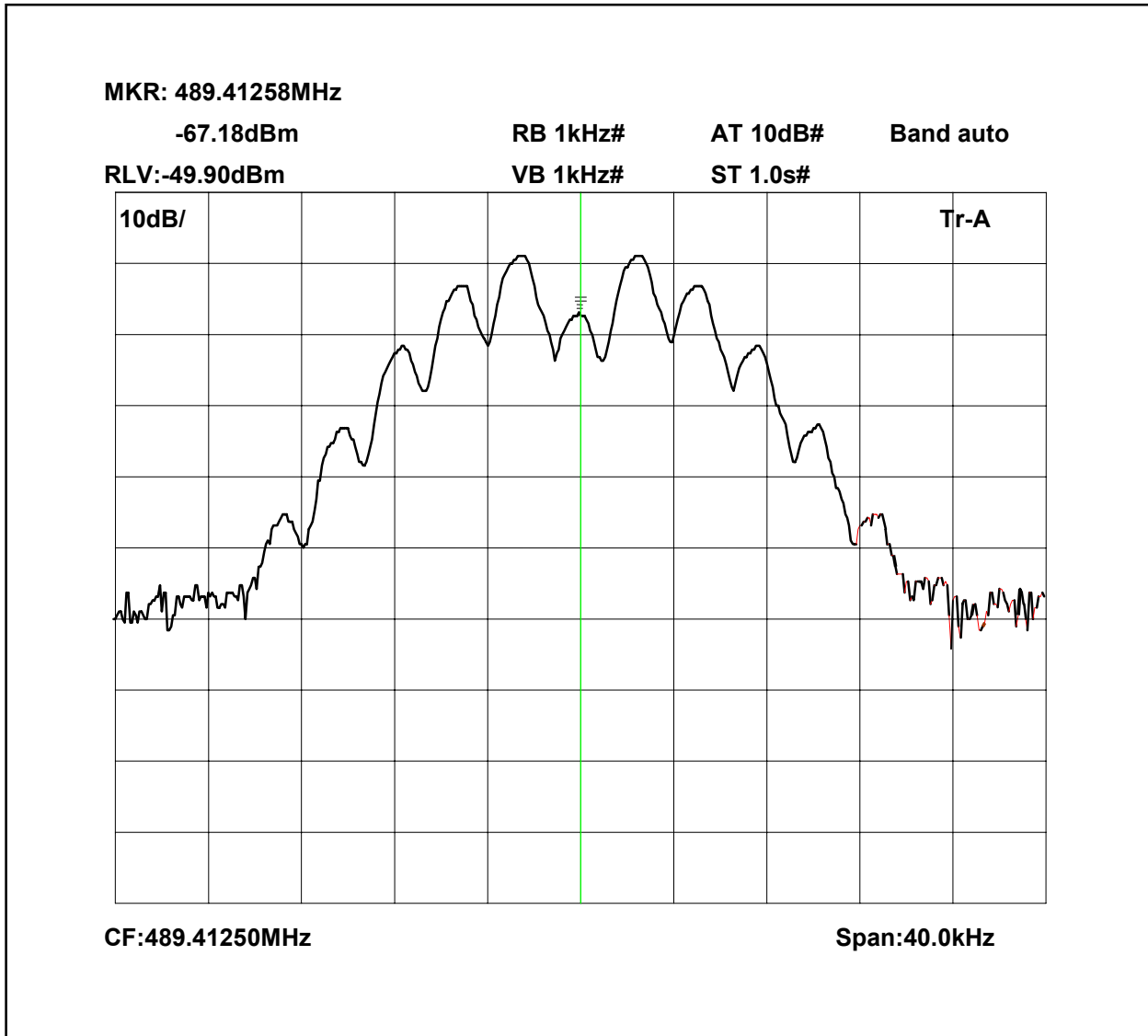


488.6375MHz Signal Generator and amplifier deviation set to 5kHz

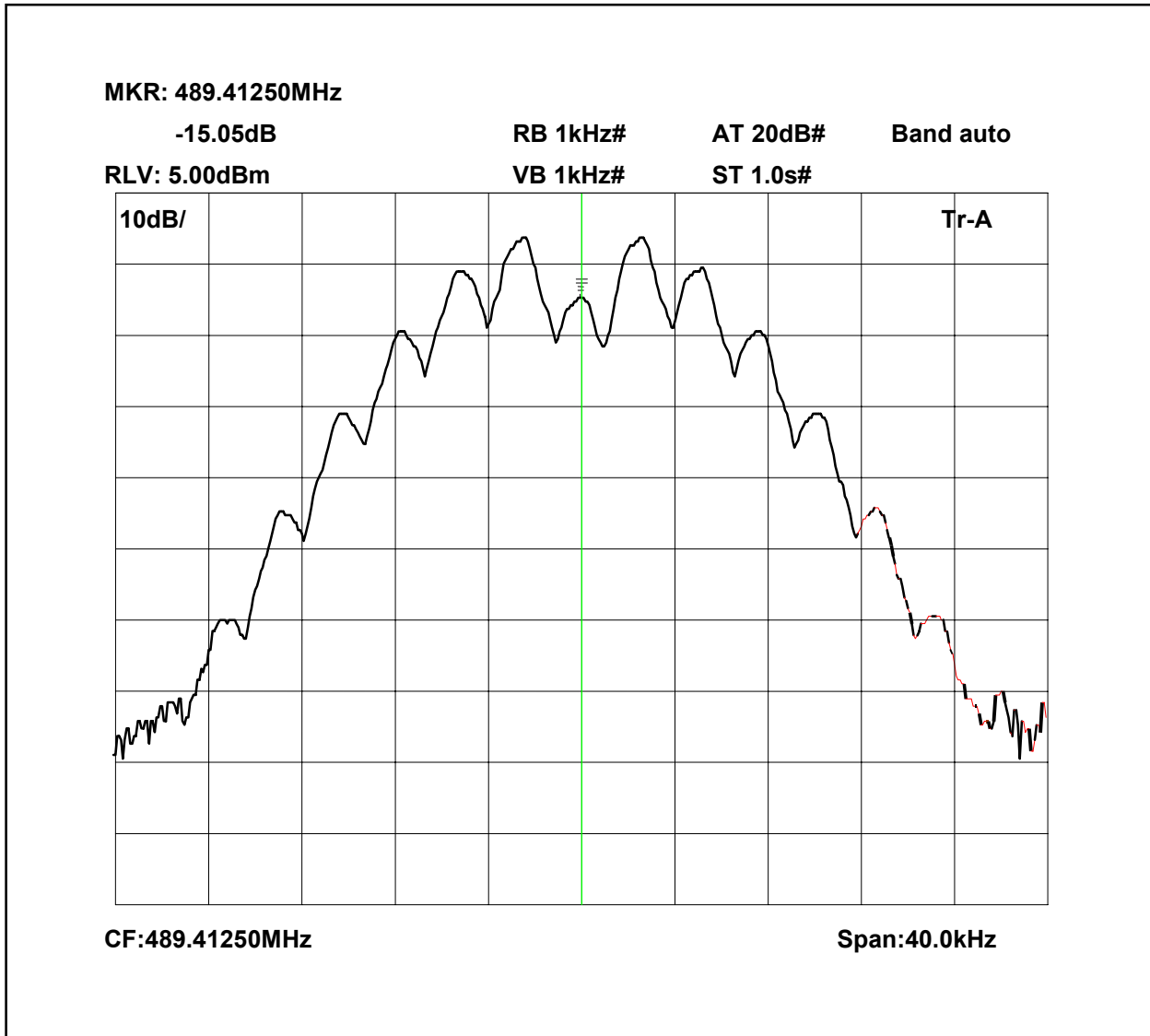


The above plots depicting the output waveshape show no measurable distortion visible. When compared to the input signal.

489.4125MHz Signal Generator deviation set to 5kHz



489.4125MHz Signal Generator deviation set to 5kHz



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

The test equipment used for the Transmitter Modulated Channel tests is shown overleaf:

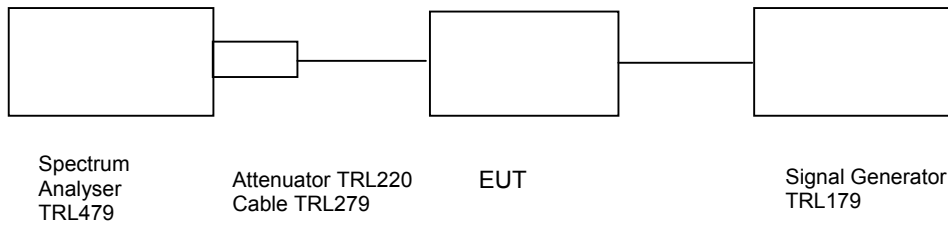
TYPE OF EQUIPMENT	MAKER/SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	X
ATTENUATOR	BIRD	8304-300-N	N/A	220	X
CABLE	ROSENBERGER	MICRO COAX	N/A	279	X
SIGNAL GENERATOR	MARCON	2042	119388/080	179	X

TRANSMITTER TESTS

AMPLIFIER SPURIOUS EMISSIONS – CONDUCTED – Part 2.1051– UPLINK

Ambient temperature = 23°C
 Relative humidity = 54%
 Supply voltage = 110V AC

Radio Laboratory Test Signal = F3E



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

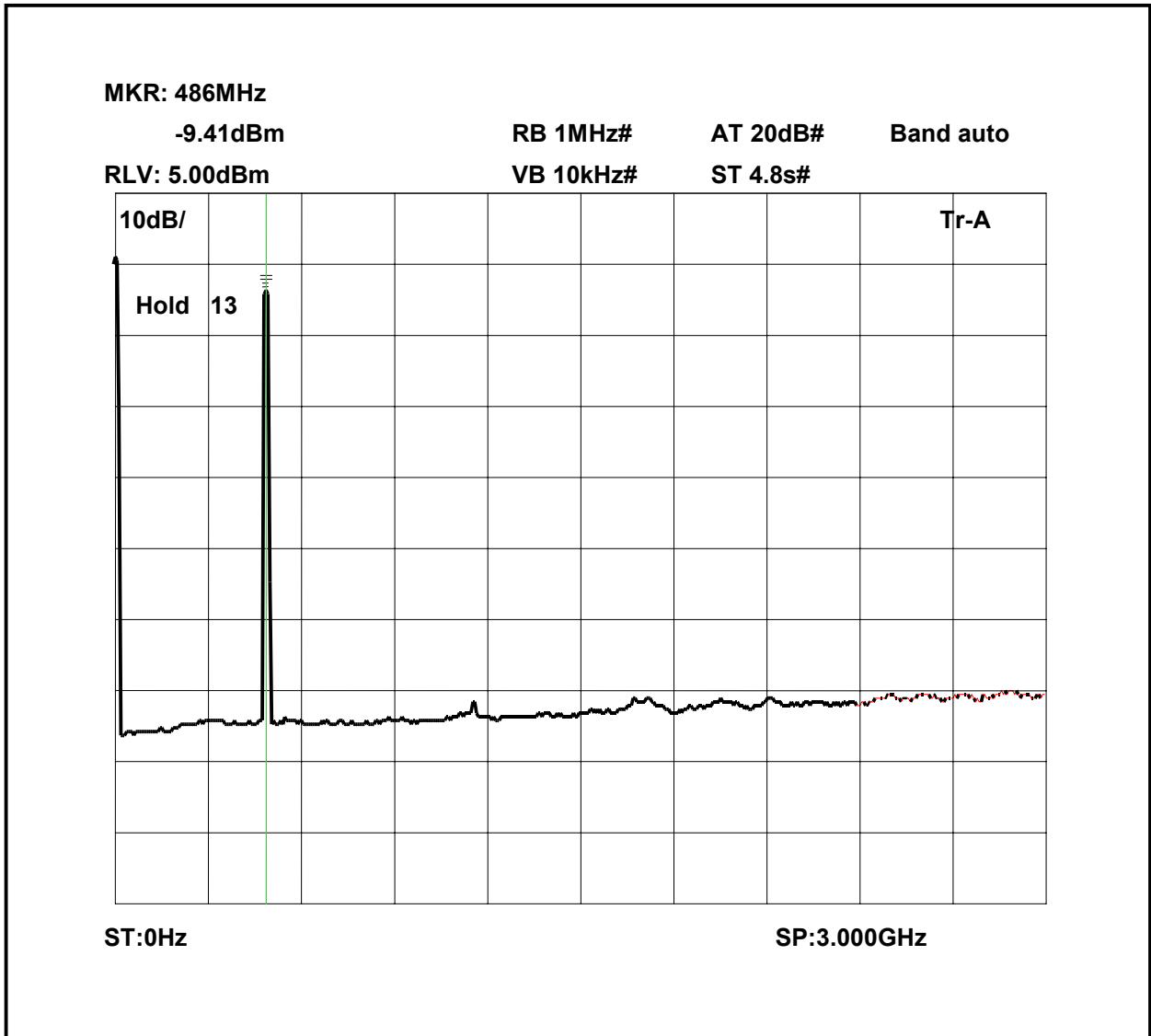
At least $43 + 10 \log P_{dB}$

$$(10\log P_{watts}) - (43+10\log (P_{watts} \times 1000)) = \text{limit} = -13 \text{ dBm}$$

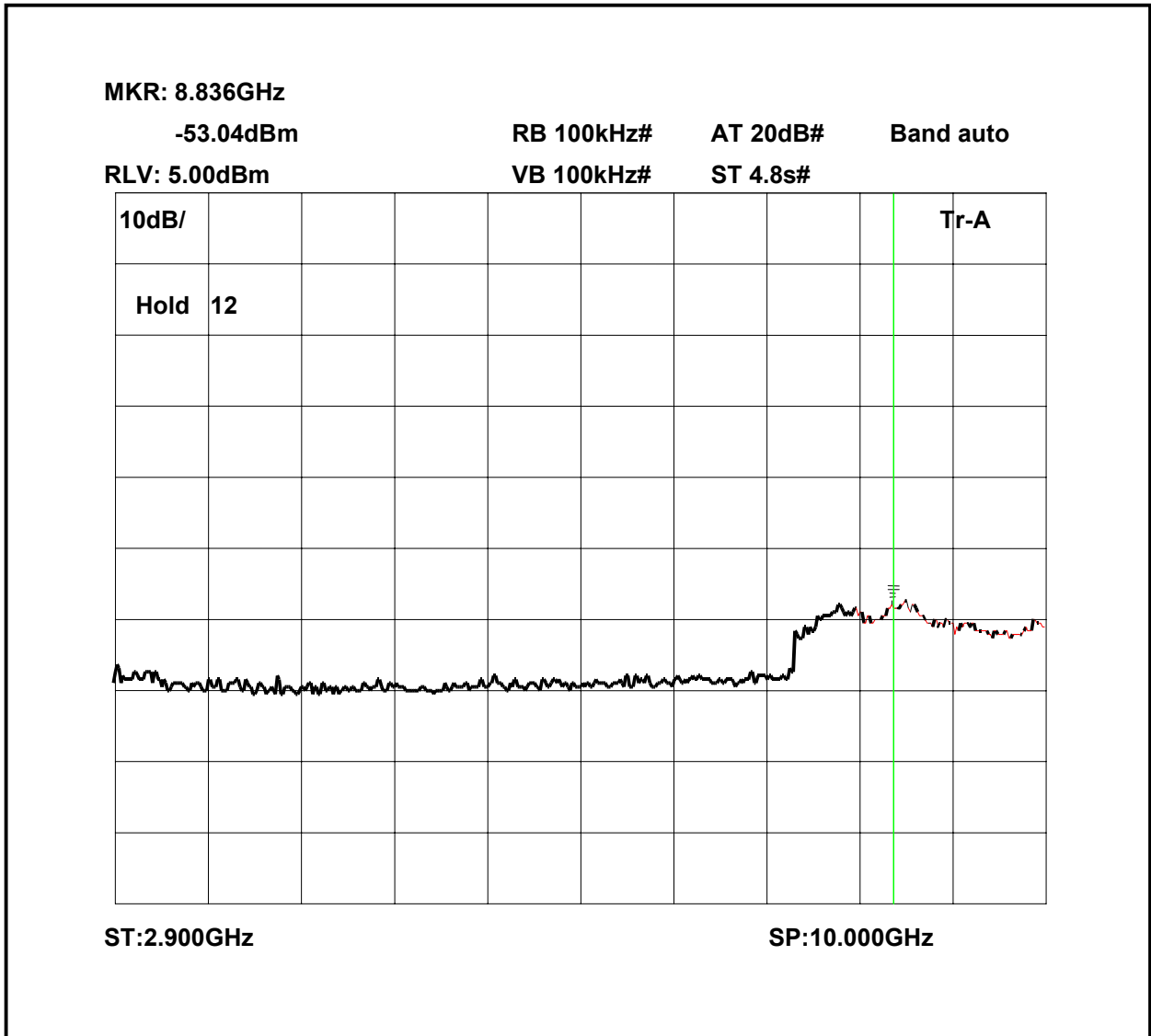
The test equipment used for the Transmitter Conducted Emissions:

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
CABLE	ROSENBERGER	MICRO COAX	N/A	279	X
SIGNAL GENERATOR	MARCON	2042	119388/080	179	X

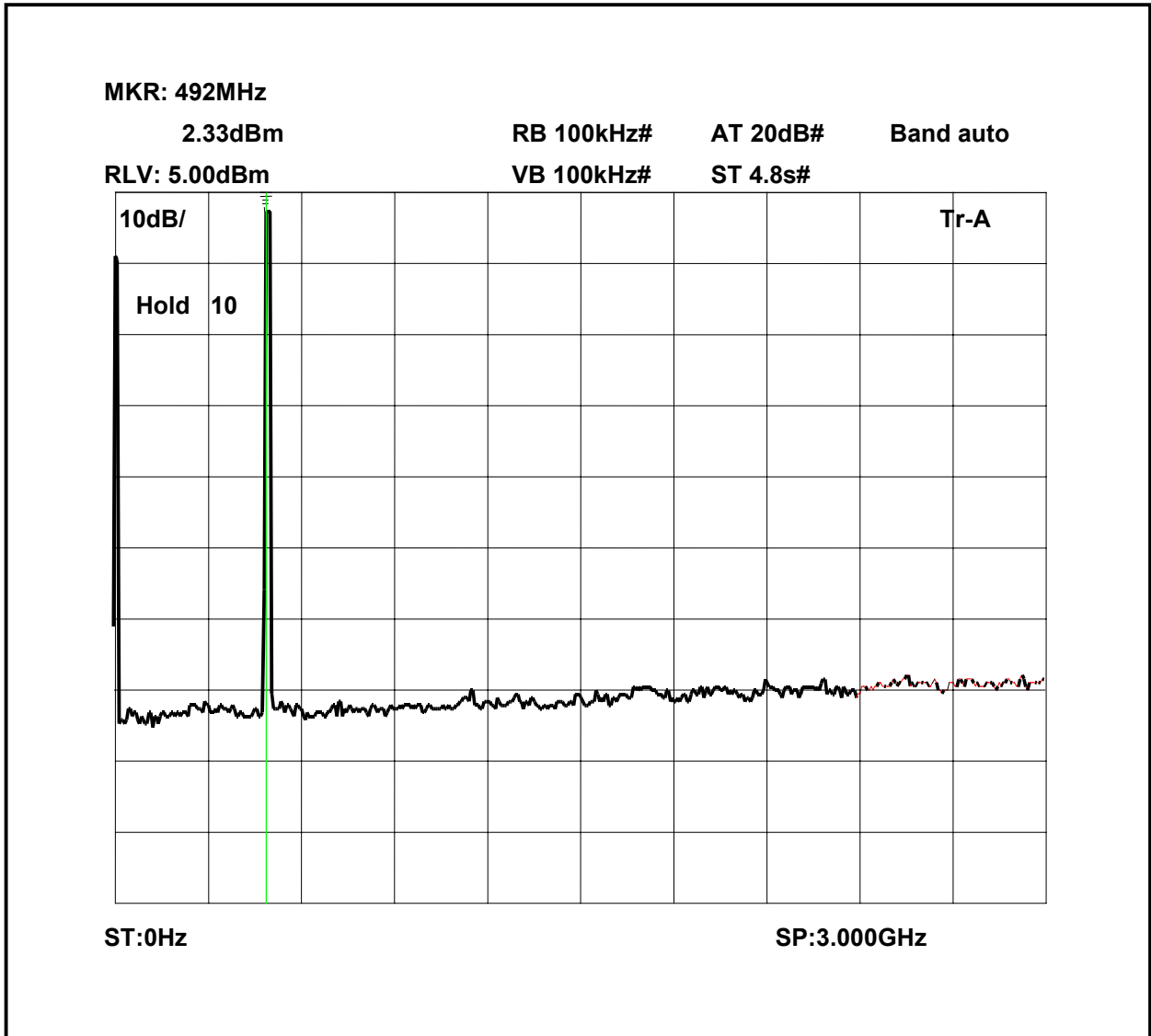
Conducted emissions 482.5875MHz 0-3GHz



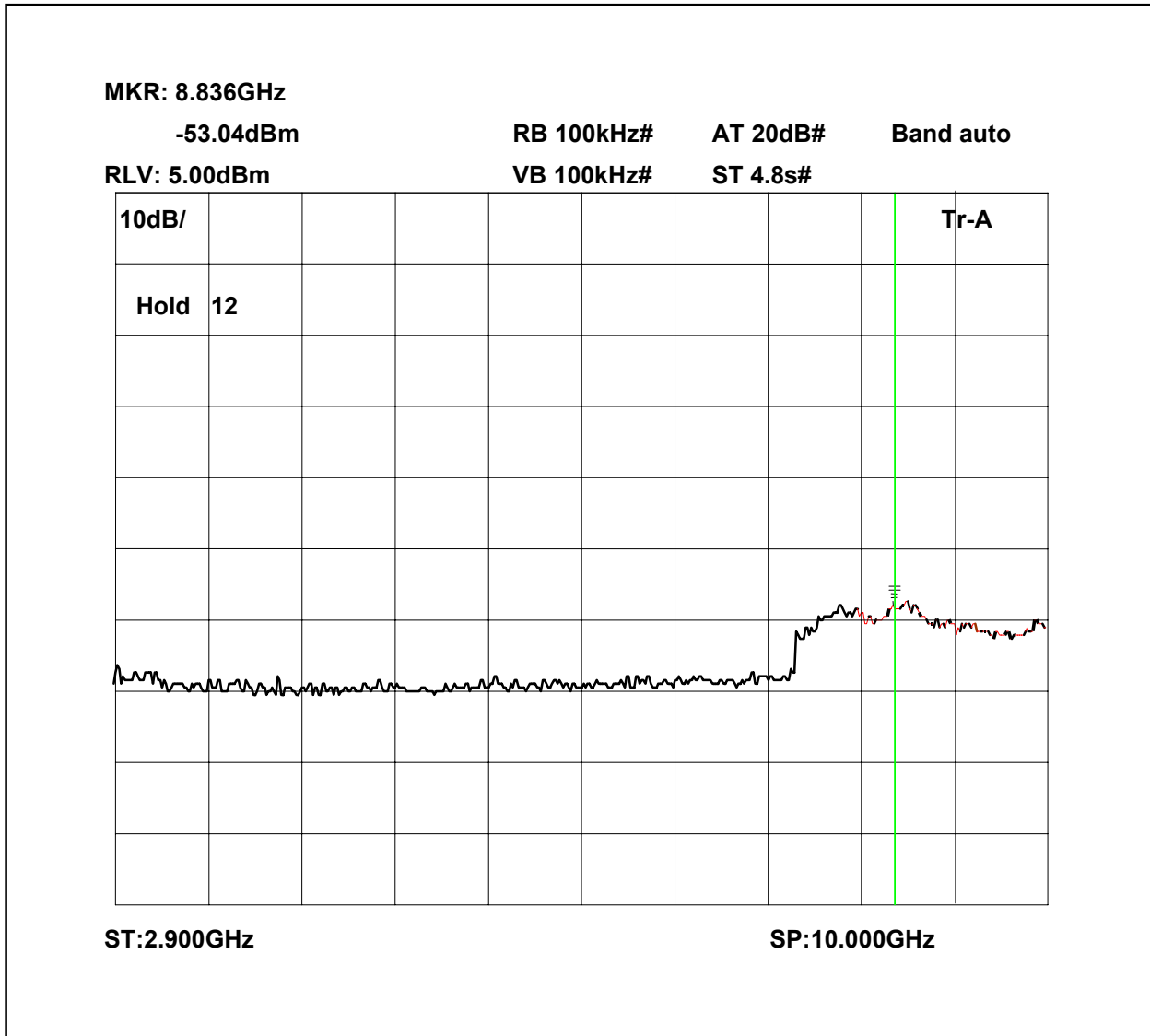
Conducted emissions 482.5875MHz 2.9-10GHz



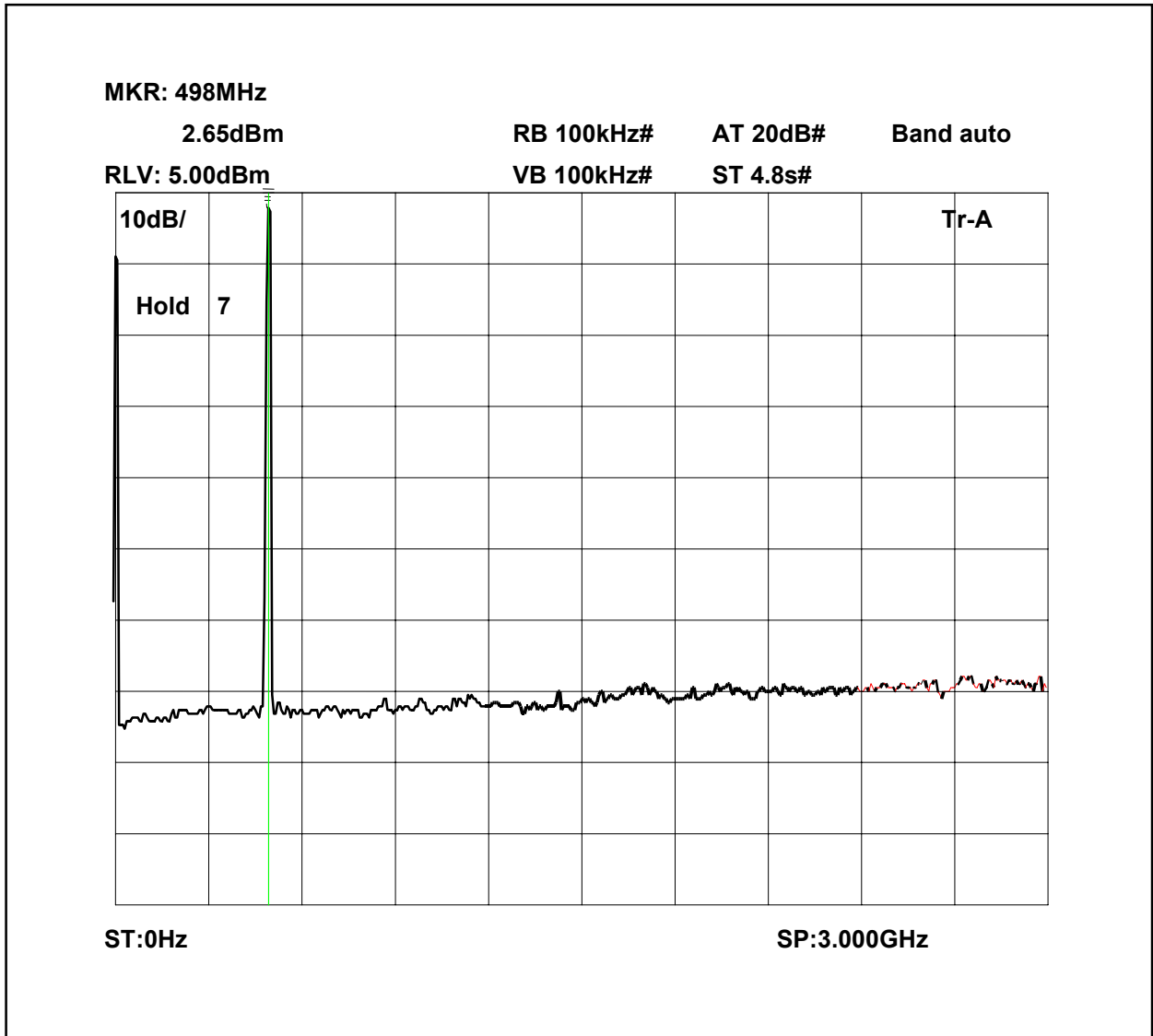
Conducted emissions 488.6375MHz 0-3GHz



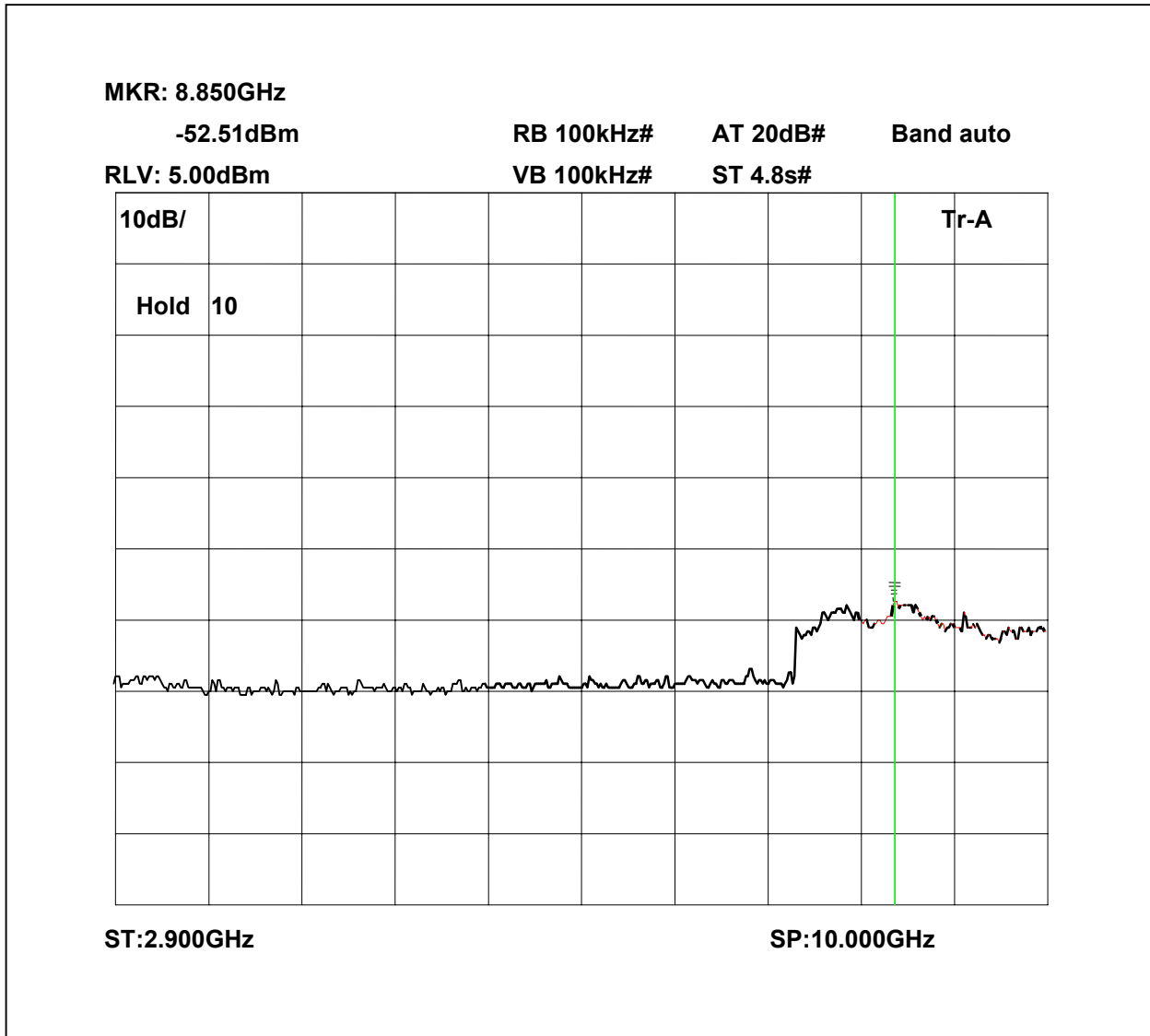
Conducted emissions 488.6375MHz 2.9-0GHz



Conducted emissions 489.4125MHz 0-3GHz



Conducted emissions 489.4125MHz 2.9-10GHz

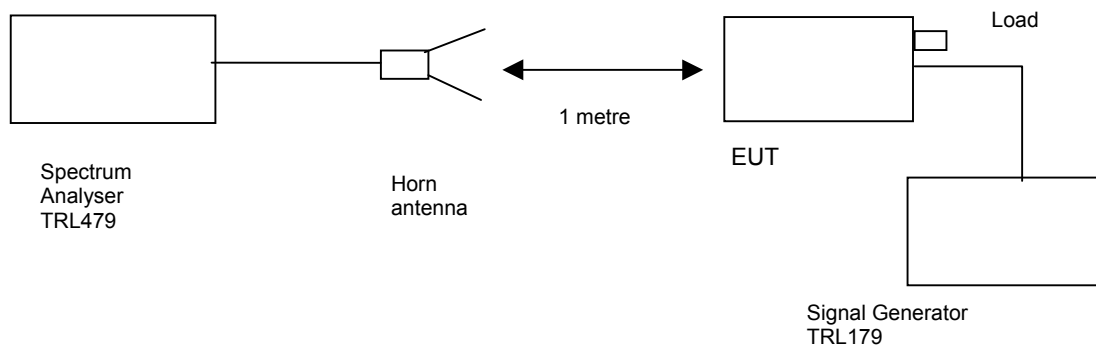


TRANSMITTER TESTS

AMPLIFIER SPURIOUS EMISSIONS – RADIATED – Part 2.1053– UPLINK

Ambient temperature = 26°C
Relative humidity = 47%
Conditions = OATS
Supply voltage = 110V AC
Supply Frequency = 60Hz

Test Signal = F3E



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.

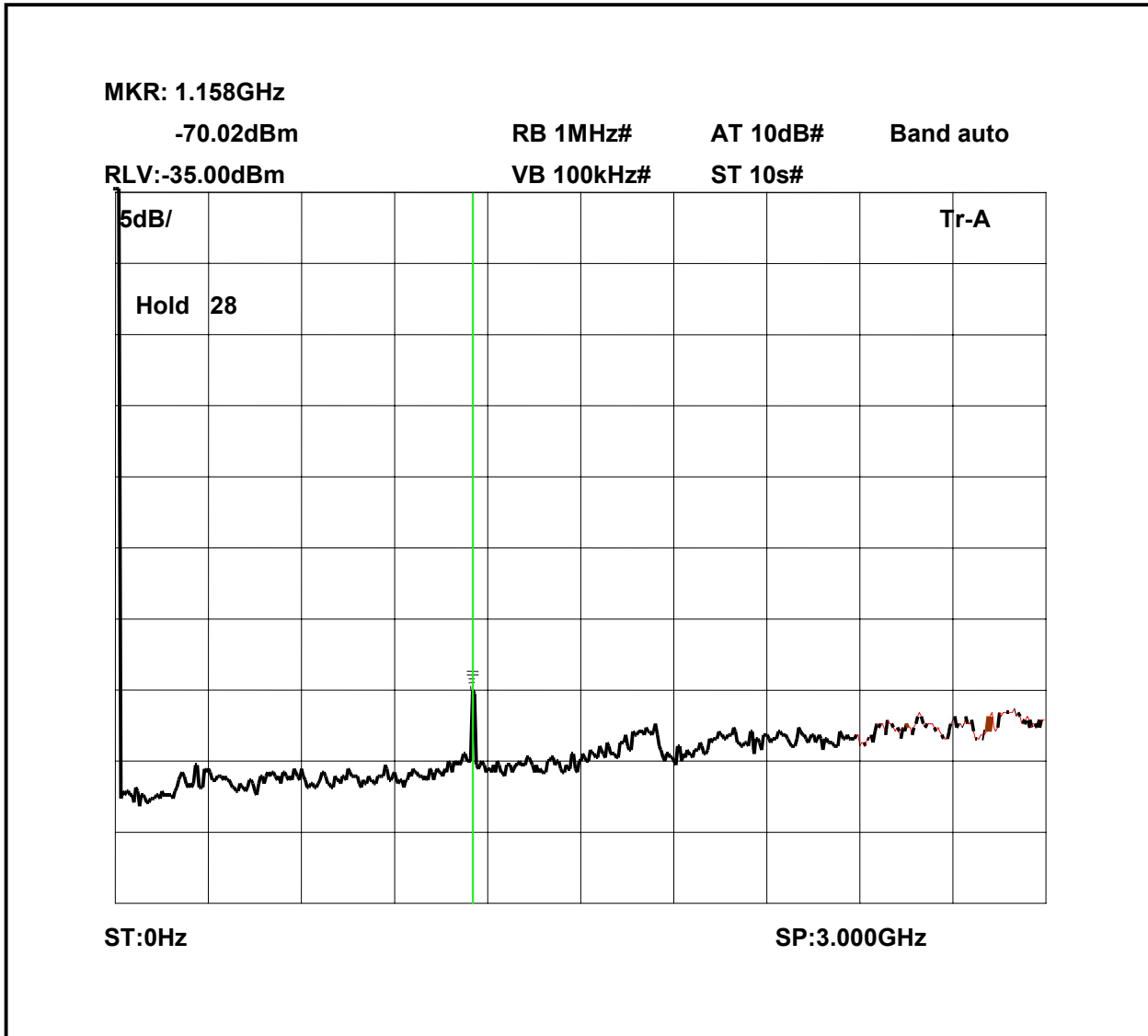
The Spurious limit was calculated as follows:

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

At least 43 + 10 log PdB

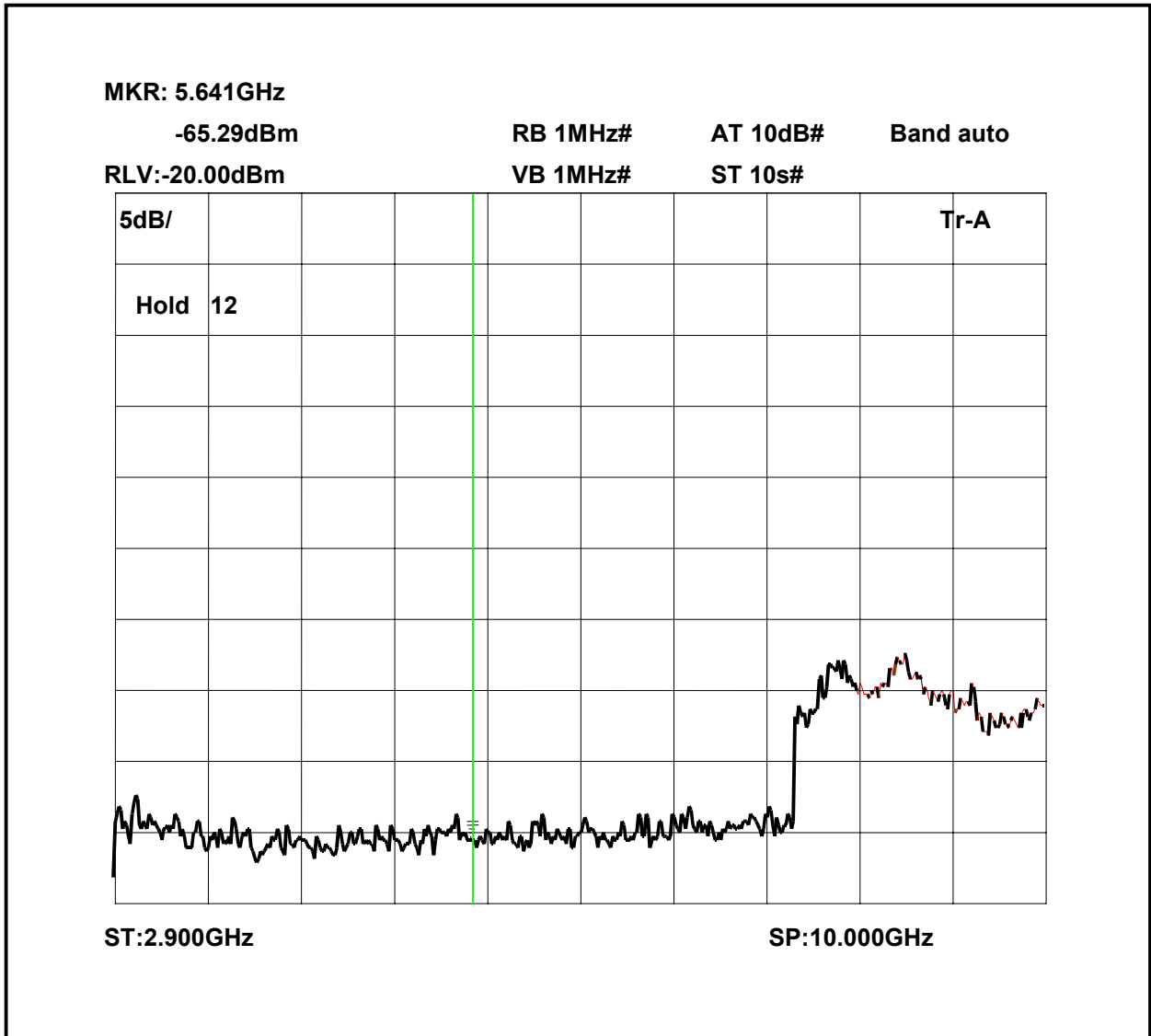
$$(10\log P_{\text{watts}}) - (43 + 10\log (P_{\text{watts}} \times 1000)) = \text{limit} = -13 \text{ dBm}$$

Radiated emissions 482.5875MHz 0-3GHz



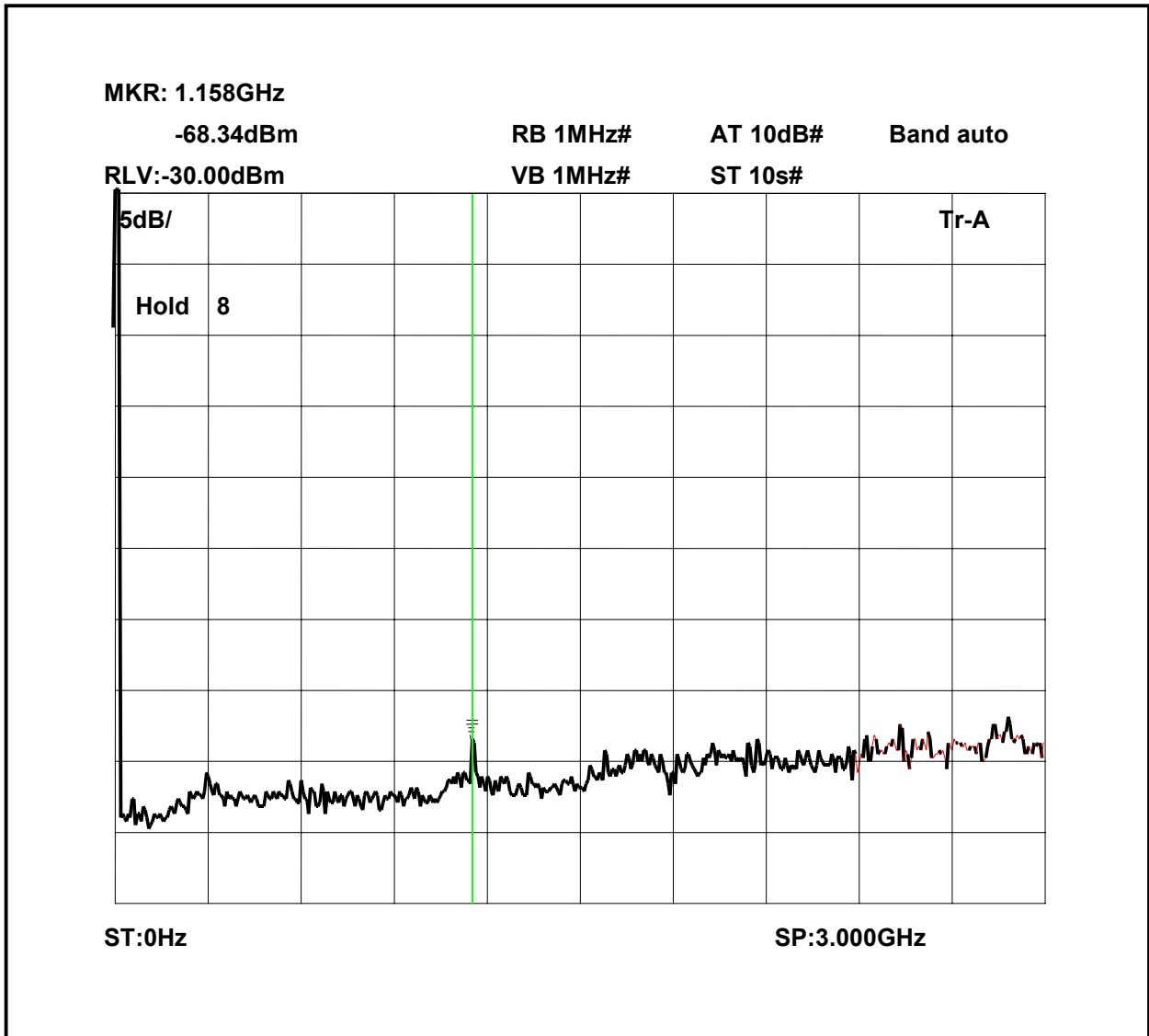
The above test results show that there were no emissions within 20dBs of the -13dBm limit.

Radiated emissions 482.5875MHz 2.9-10GHz



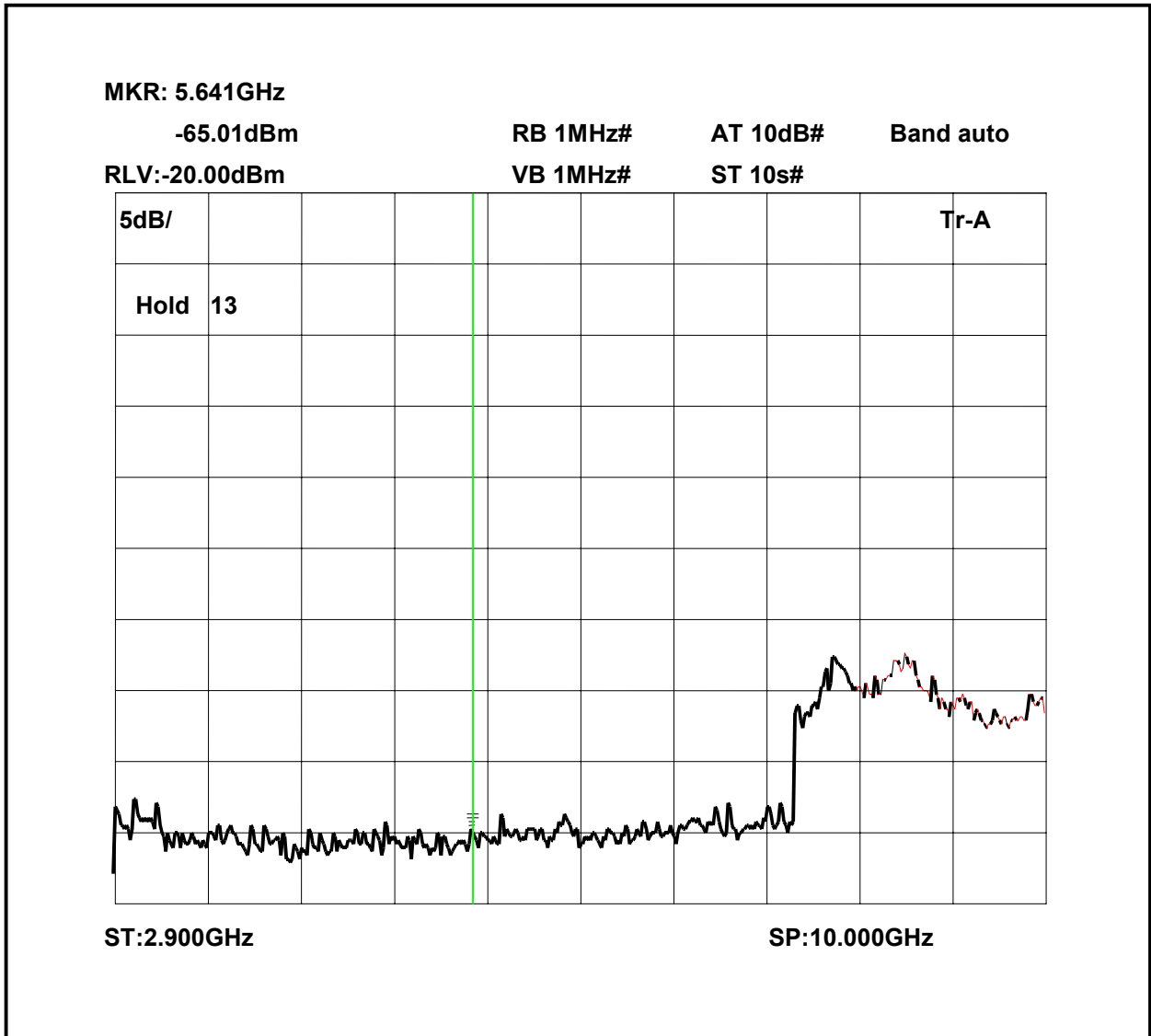
The above test results show that there were no emissions within 20dBs of the -13dBm limit.

Radiated emissions 488.6375MHz 0-3GHz



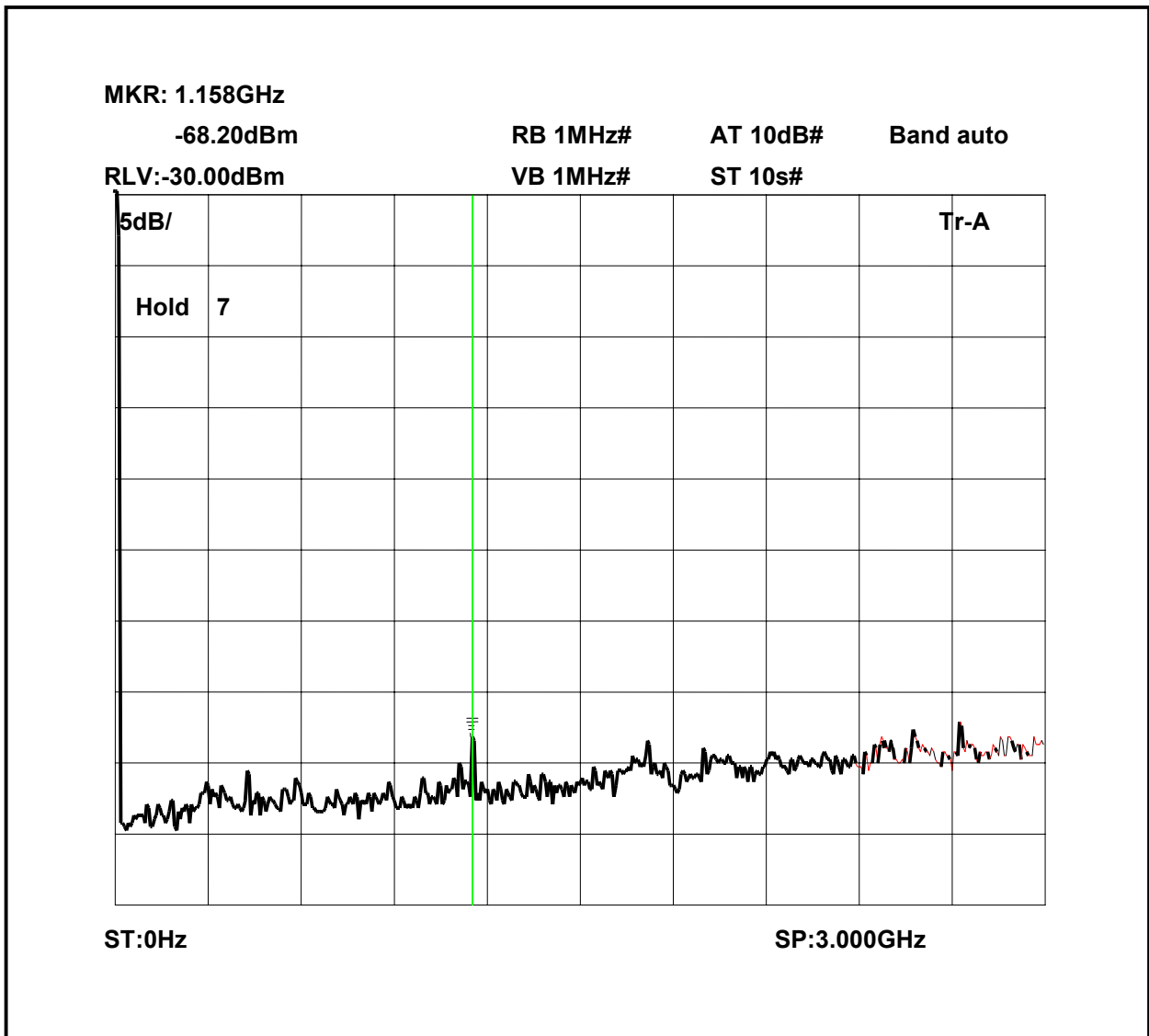
The above test results show that there were no emissions within 20dBs of the -13dBm limit.

Radiated emissions 488.6375MHz 2.9-10GHz



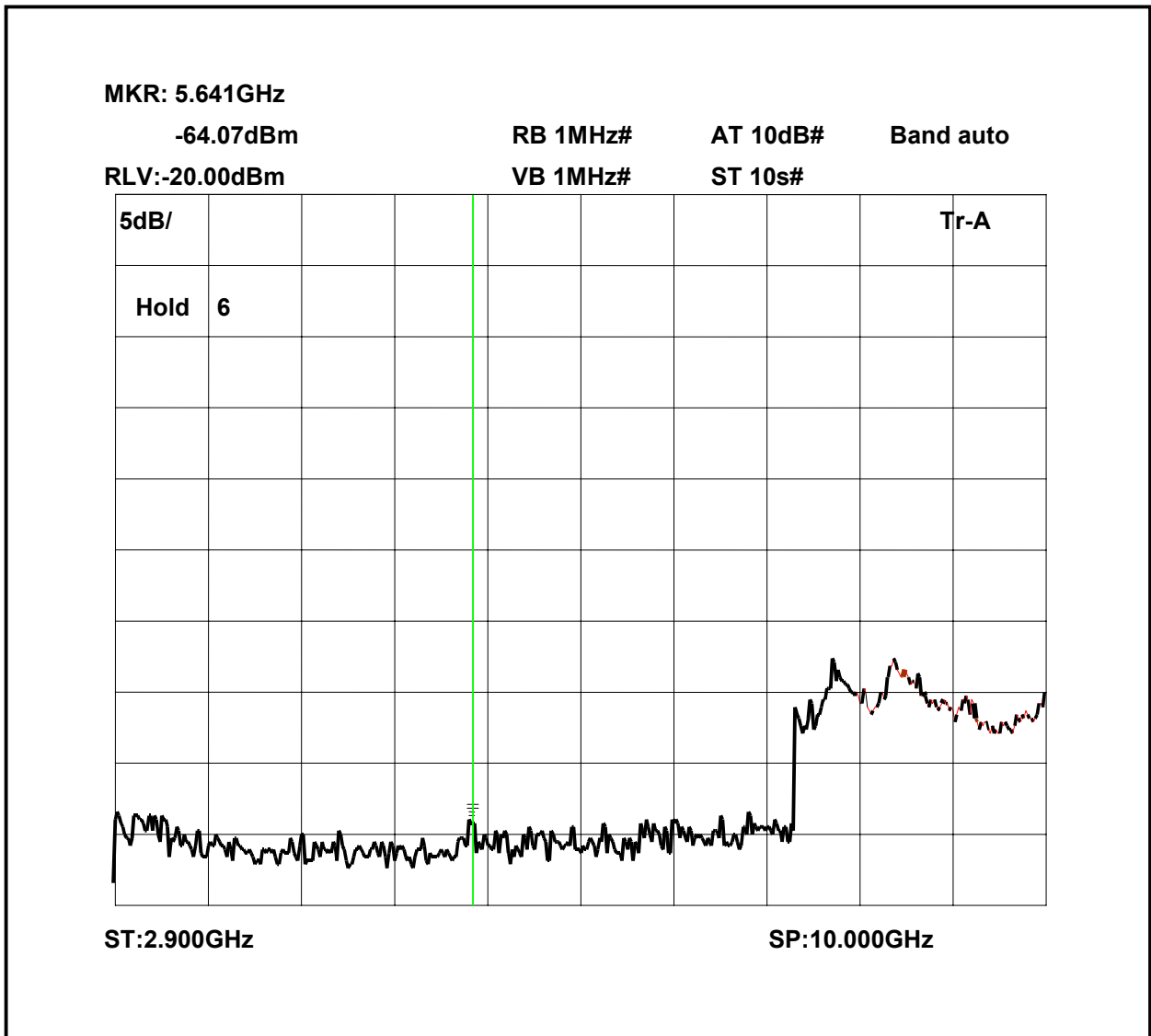
The above test results show that there were no emissions within 20dBs of the -13dBm limit.

Radiated emissions 489.4125MHz 0-3GHz



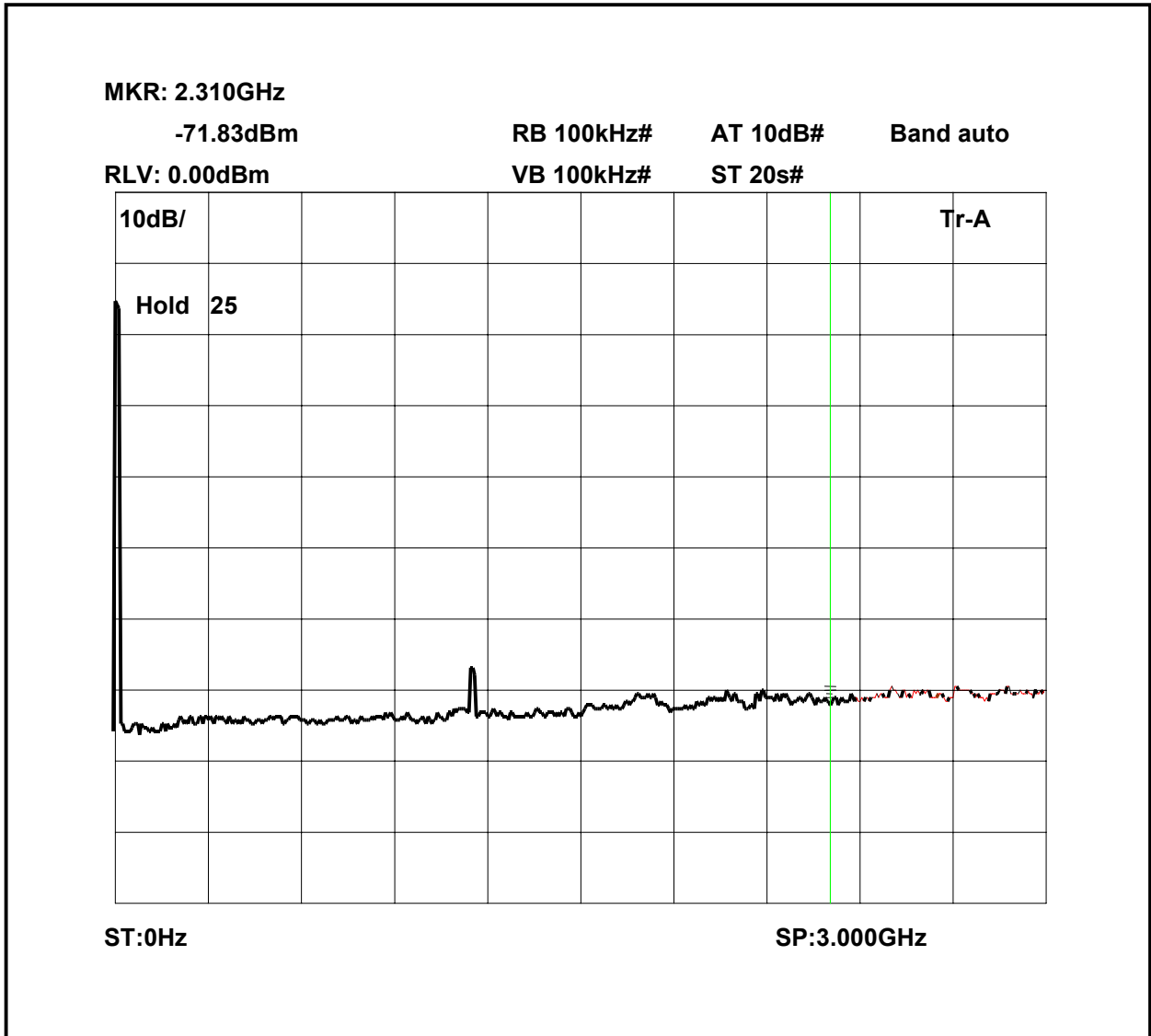
The above test results show that there were no emissions within 20dBs of the -13dBm limit.

Radiated emissions 489.4125MHz 2.9-10GHz



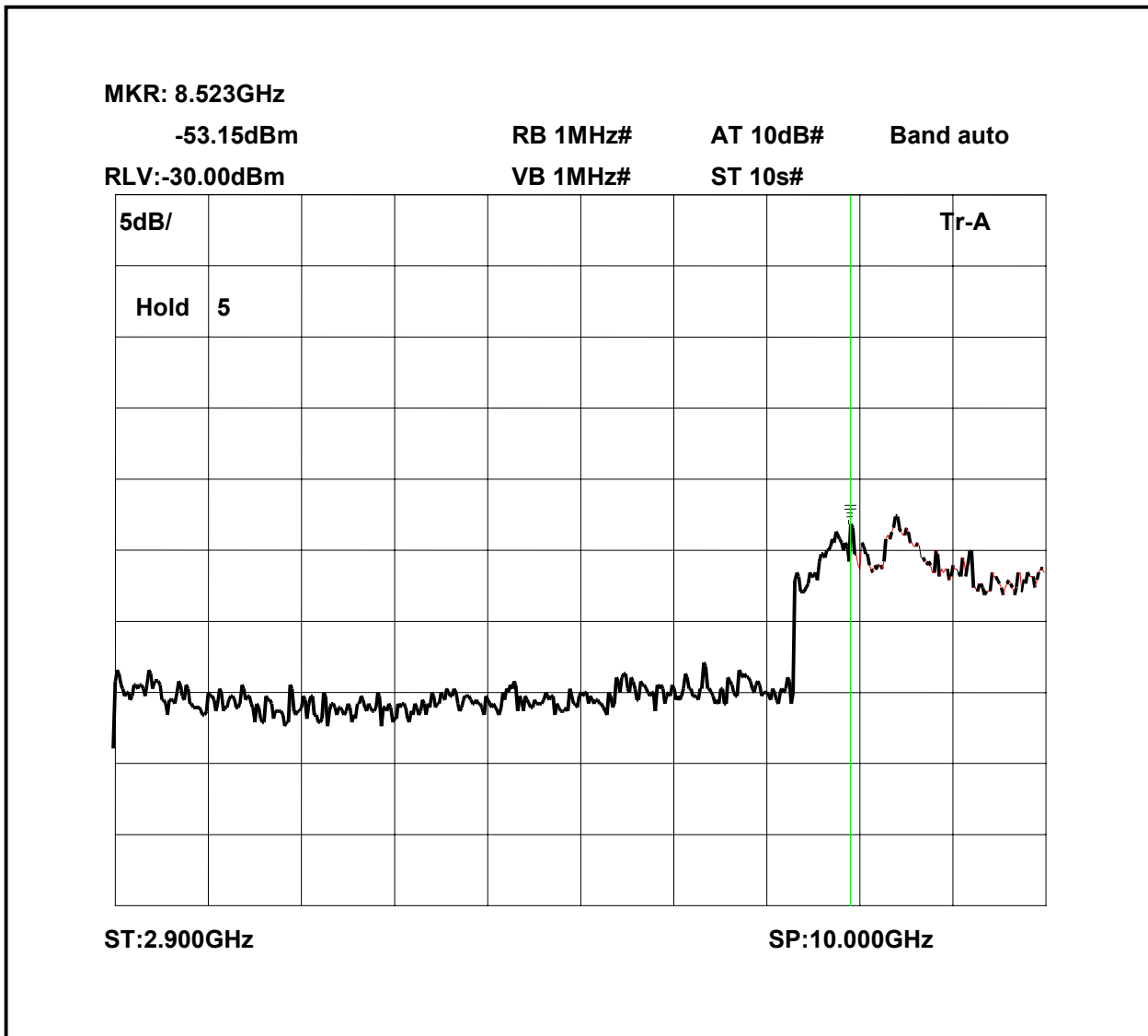
The above test results show that there were no emissions within 20dBs of the -13dBm limit.

Radiated emissions no input signal 0-3GHz



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

Radiated emissions no input signal 2.9-10GHz



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

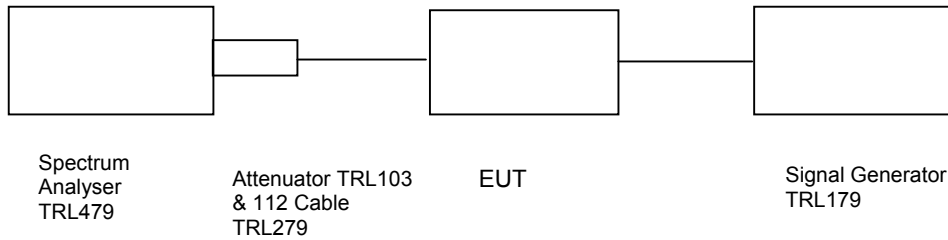
The test equipment used for the Transmitter Spurious Emissions:

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
ATTENUATOR	BIRD	8304-300-N	N/A	220	X
CABLE	ROSENBERGER	MICRO COAX	N/A	279	X
SIGNAL GENERATOR	MARCON	2042	119388/080	179	X

AMPLIFIER GAIN – CONDUCTED – PART 2.1046 – DOWNLINK

Ambient temperature = 26°C
 Relative humidity = 40%
 Supply voltage = 115Vac
 Channel number = See test results

Radio Laboratory



Frequency MHz	Signal Generator input level dBm	Cable & Attenuator loss dB	Level at Spectrum Analyser dBm	Gain dB	Gain after 20dB input level increase dBm
485.5875	-57.0	30.45	-4.98	82.47	82.47
491.8375	-59.0	30.45	-2.78	86.67	86.67
492.1750	-59.0	30.45	-2.78	86.67	86.67

Notes:

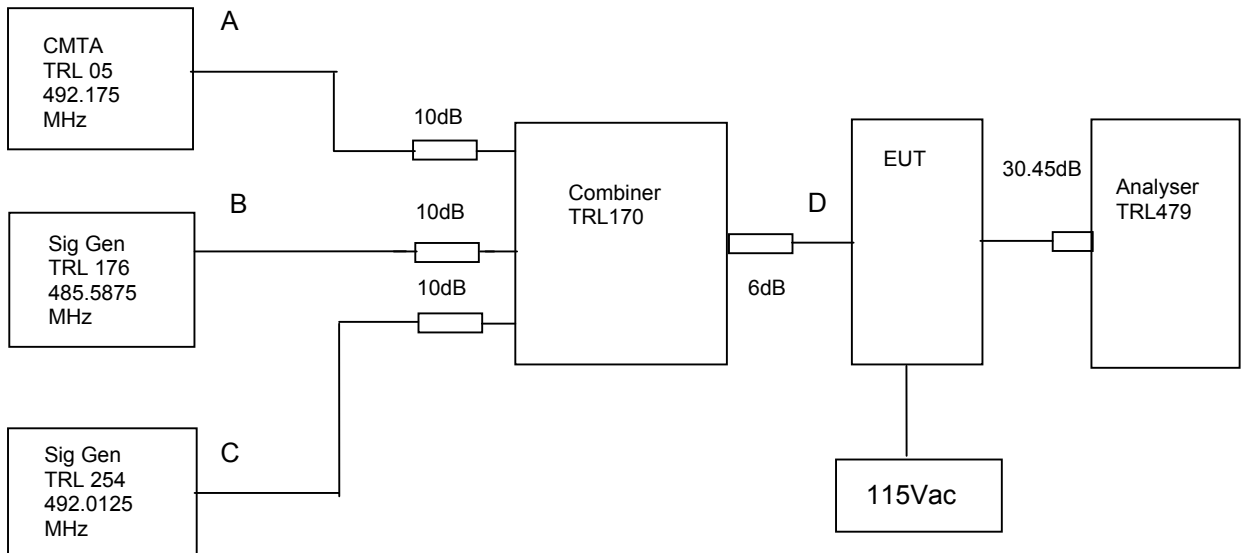
1. The level of the signal generator takes into consideration the loss from the cable.
2. The signal generator input was increased by 20dBs and the level of the output signal remeasured

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	8308-100	N/A	112	X
CABLE	ROSENBERGER	MICRO COAX	N/A	279	X
SIGNAL GENERATOR	MARCON	2042	119388/080	179	X

AMPLIFIER INTERMODULATION SPURIOUS EMISSIONS – CONDUCTED – PART 2.1053– DOWNLINK

Ambient temperature = 26°C
 Relative humidity = 40%
 Supply voltage = 115Vac

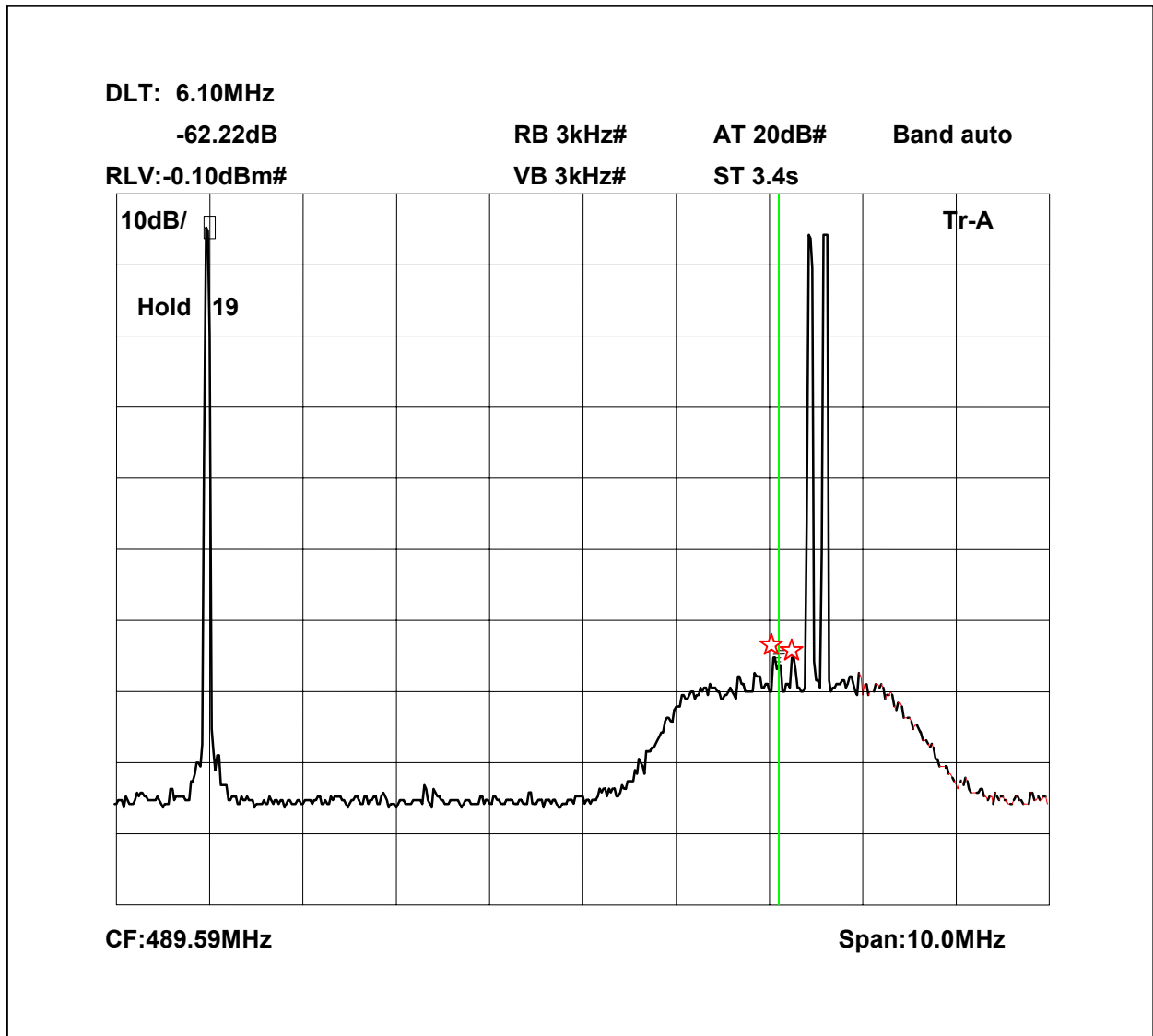
Radio Laboratory



The Intermodulation 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 57.0dBm. The cable and attenuators loss between the EUT and the spectrum analyser was 30.45 dB.

Sweep data is shown on the next page:

Intermodulation Inband



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

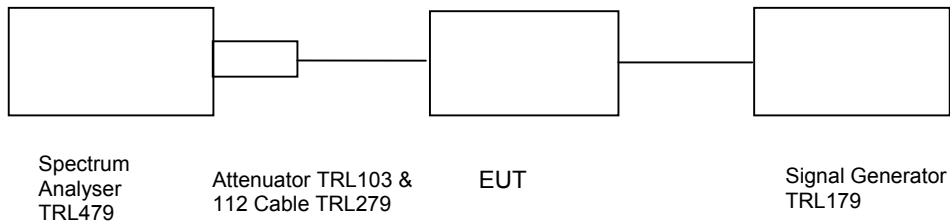
Test equipment used for intermodulation test

TYPE OF EQUIPMENT	MAKER/SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	X
SIGNAL GENERATOR	MARCON	2042	119562/02	254	X
CMTA	ROHDE & SCHWARZ	CMTA52	894715/033	05	X
SIGNAL GENERATOR	MARCON	2042	119388/080	179	X
COMBINER	ELCOM	RC-4-50	N/A	170	x

TRANSMITTER TESTS

AMPLIFIER MODULATED CHANNEL TEST – CONDUCTED – Part 2.1049– DOWNLINK

Ambient temperature = 26°C Radio Laboratory
Relative humidity = 40%
Supply voltage = 115Vac
Channel number = See test results

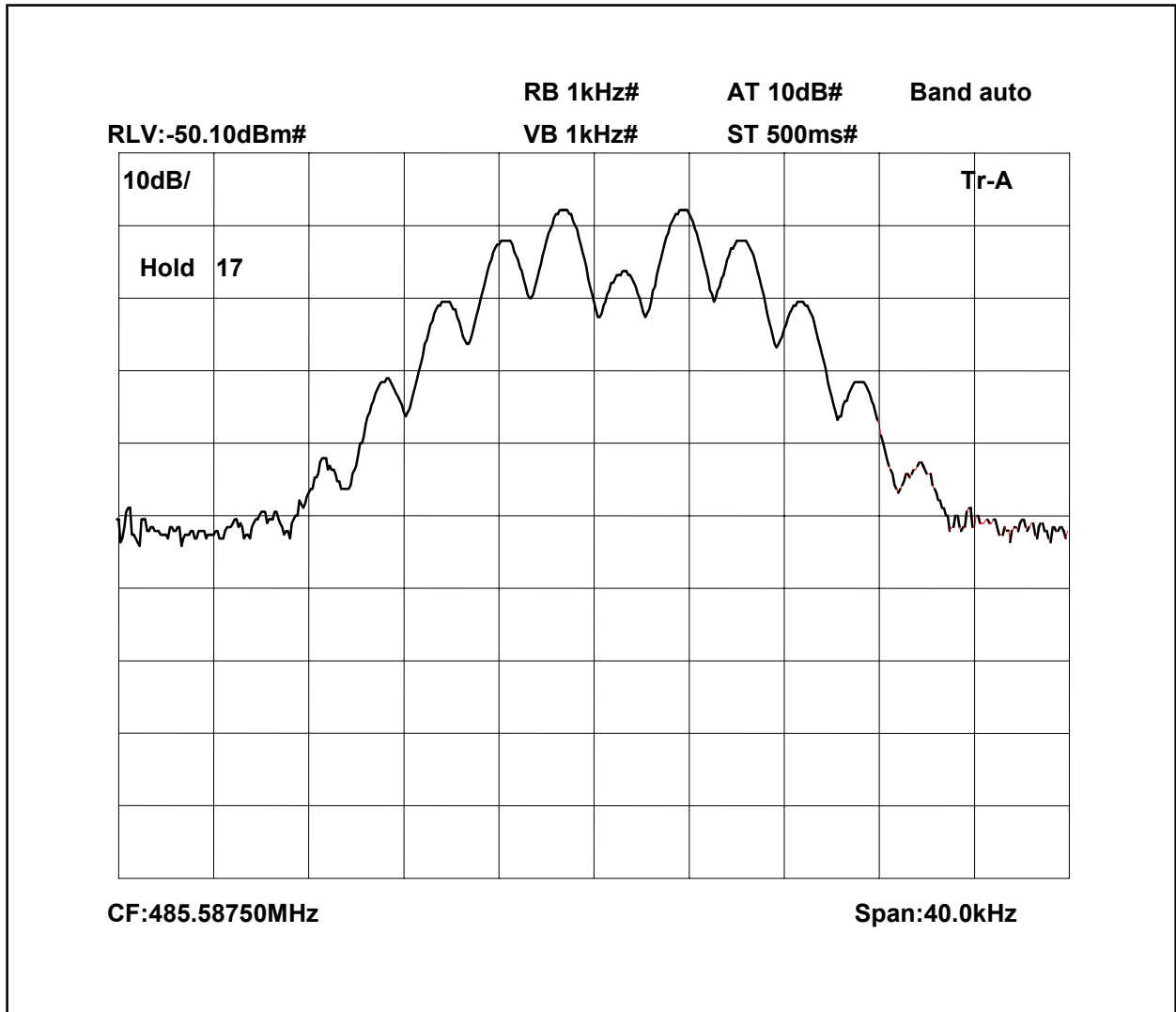


This test was performed to show that the amplifier does not alter the input signal in any way. The input signal was set to the maximum input level (-57.0dBm) and modulated with a 2500Hz tone. The plots show the signal measured at the signal generator and the signal measured at the output of the EUT.

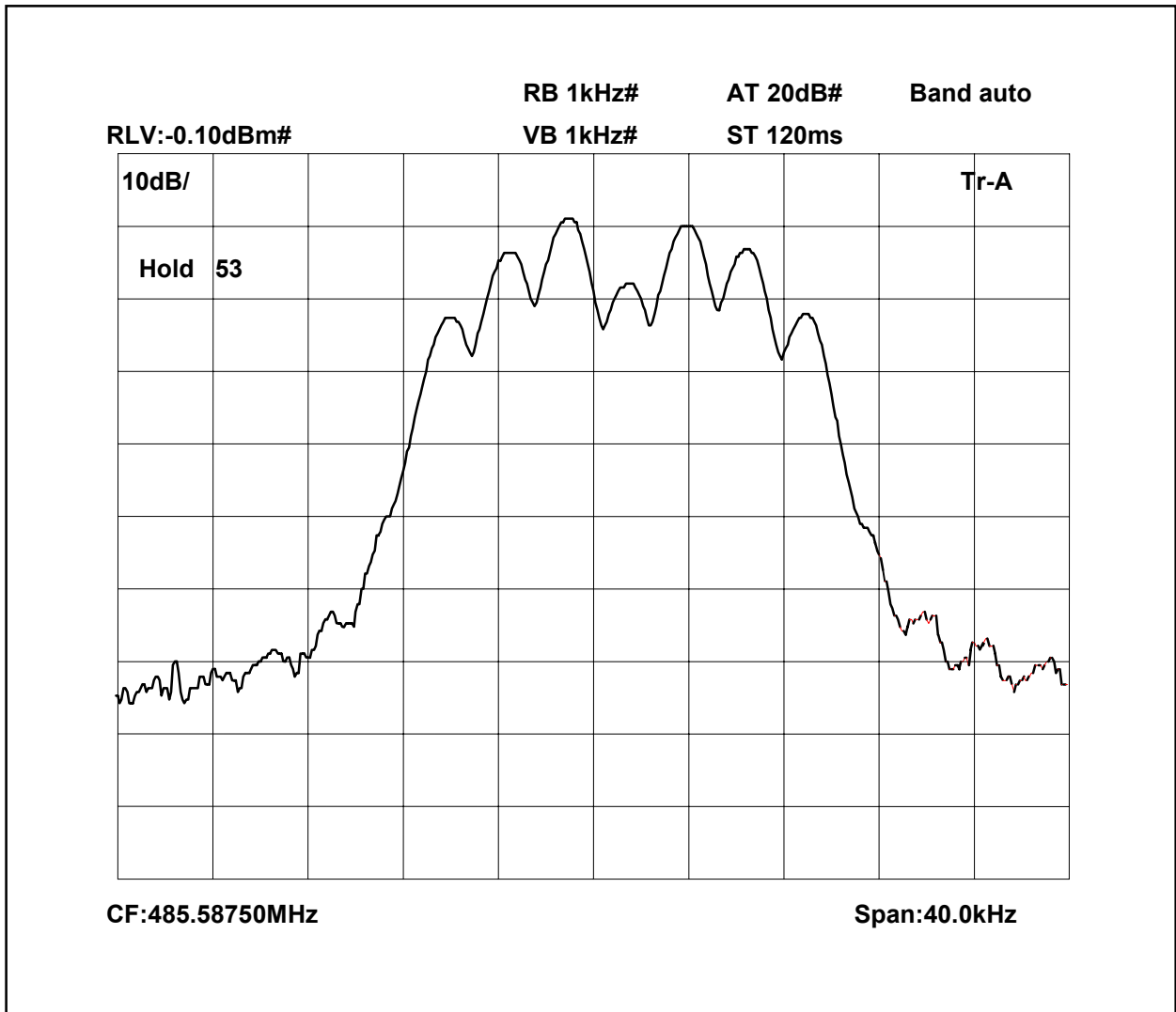
Note: The cables and attenuators had the following losses.

3. Cable TRL279 and attenuators TRL103 & TRL 112 = 30.45dB
4. Cable between signal generator and EUT = 0.4dB

485.5875MHz Signal Generator deviation set to 5kHz

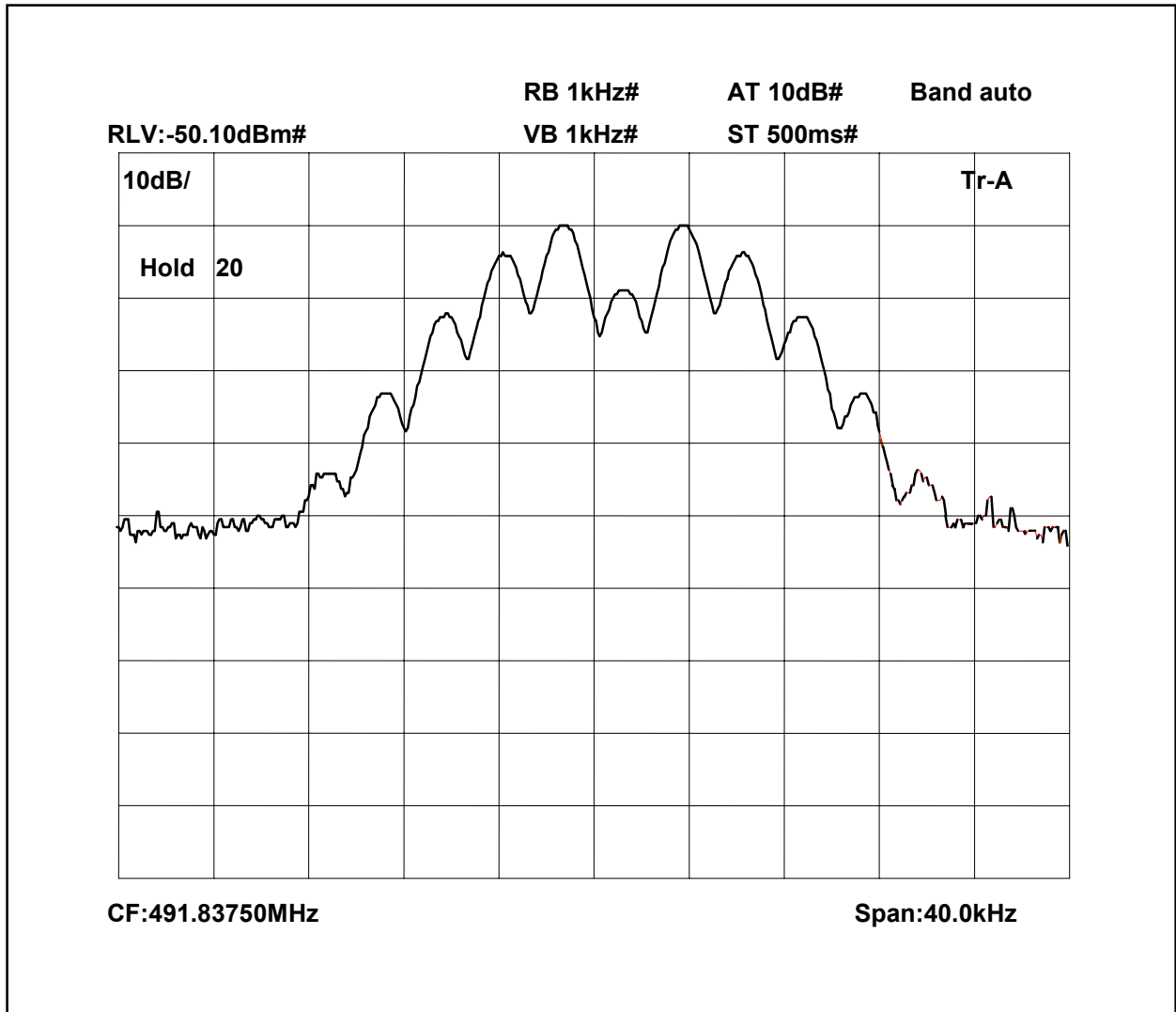


485.5875MHz Signal Generator and EUT deviation set to 5kHz

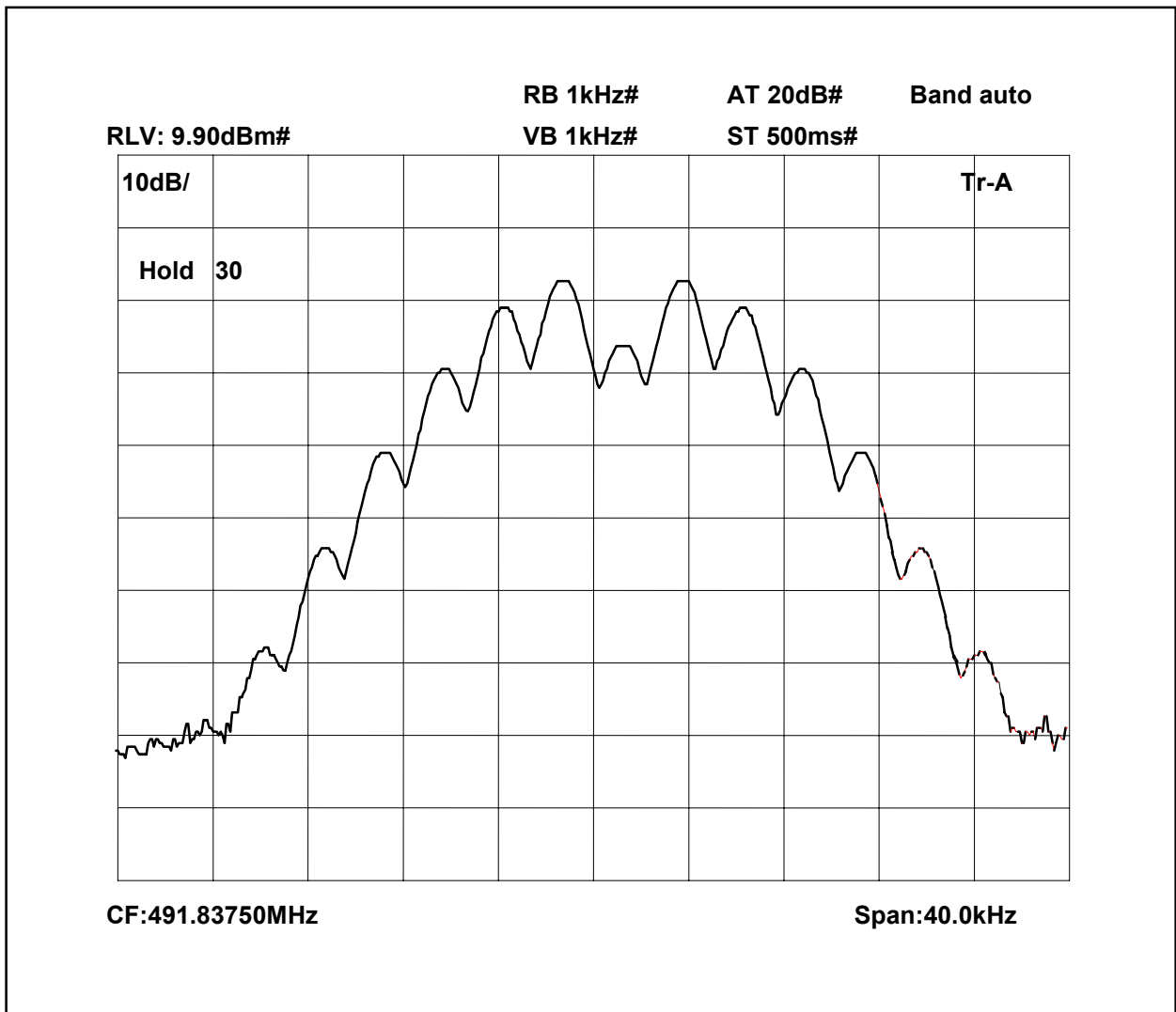


The above plots depicting the output waveshape show no measurable distortion visible. When compared to the input signal.

491.8375MHz Signal Generator deviation set to 5kHz

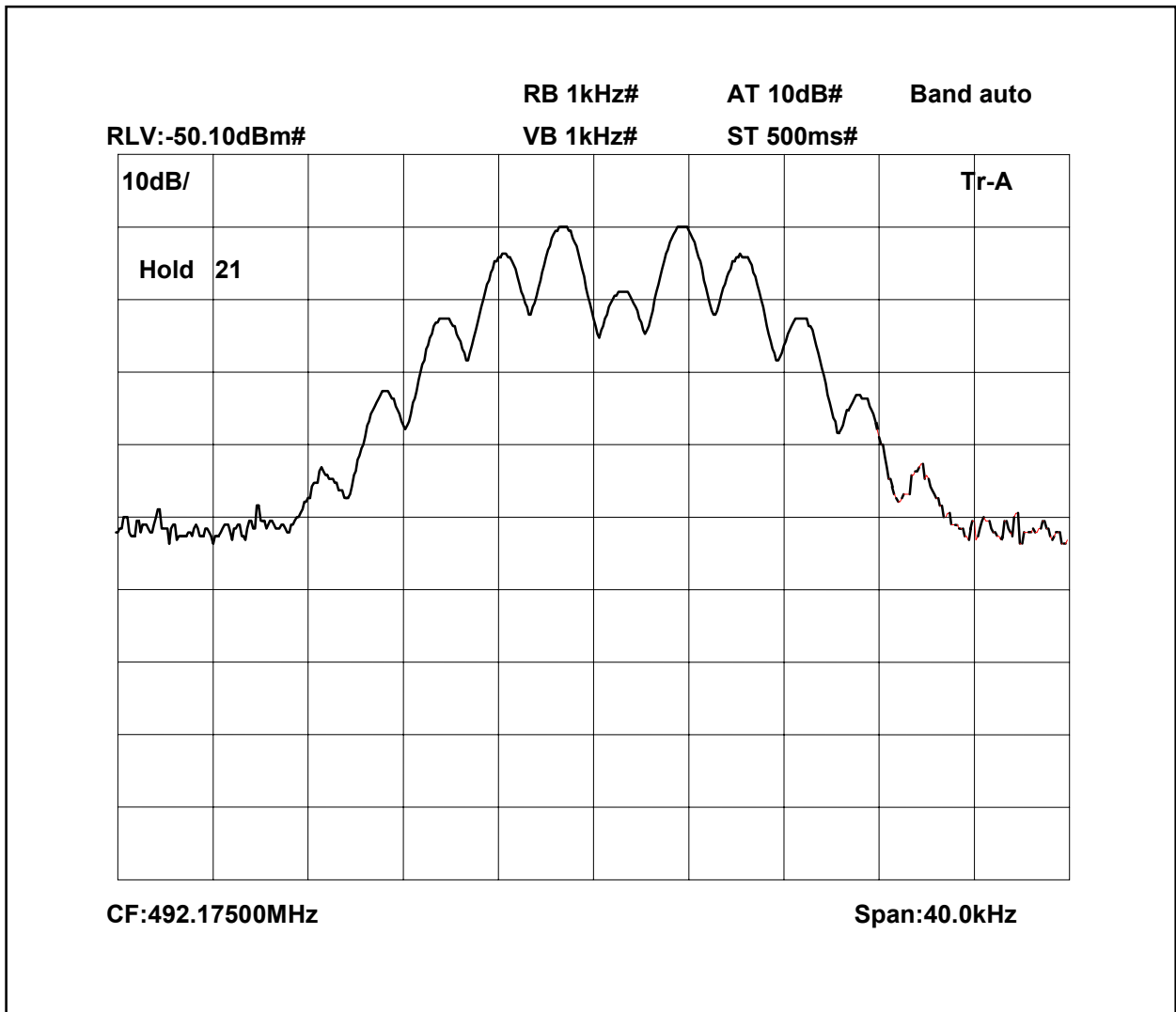


491.8375MHz Signal Generator and amplifier deviation set to 5kHz

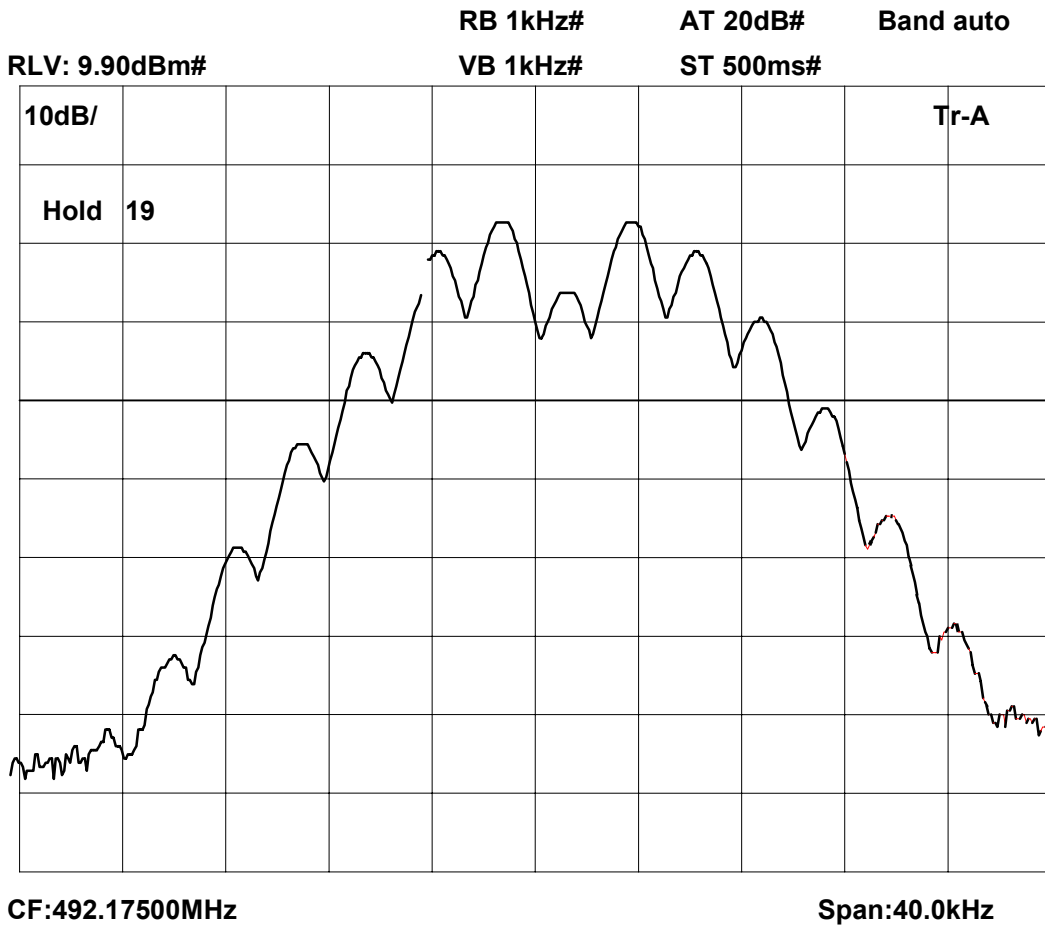


The above plots depicting the output waveshape show no measurable distortion visible. When compared to the input signal.

492.1750MHz Signal Generator deviation set to 5kHz



492.1750MHz Signal Generator deviation set to 5kHz



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

The test equipment used for the Transmitter modulated channel tests is shown overleaf:

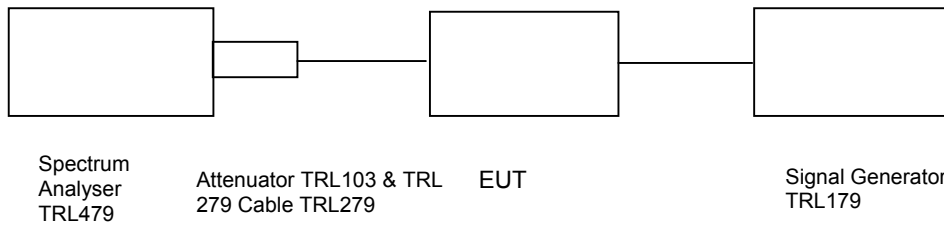
TYPE OF EQUIPMENT	MAKER/SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	X
ATTENUATOR	BIRD	8304-200	N/A	103	X
ATTENUATOR	BIRD	8308-100	N/A	112	X
CABLE	ROSENBERGER	MICRO COAX	N/A	279	X
SIGNAL GENERATOR	MARCON	2042	119388/080	179	X

TRANSMITTER TESTS

AMPLIFIER SPURIOUS EMISSIONS – CONDUCTED – Part 2.1051– DOWNLINK

Ambient temperature = 26°C
 Relative humidity = 40%
 Supply voltage = 110V AC

Radio Laboratory Test Signal = F3E



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

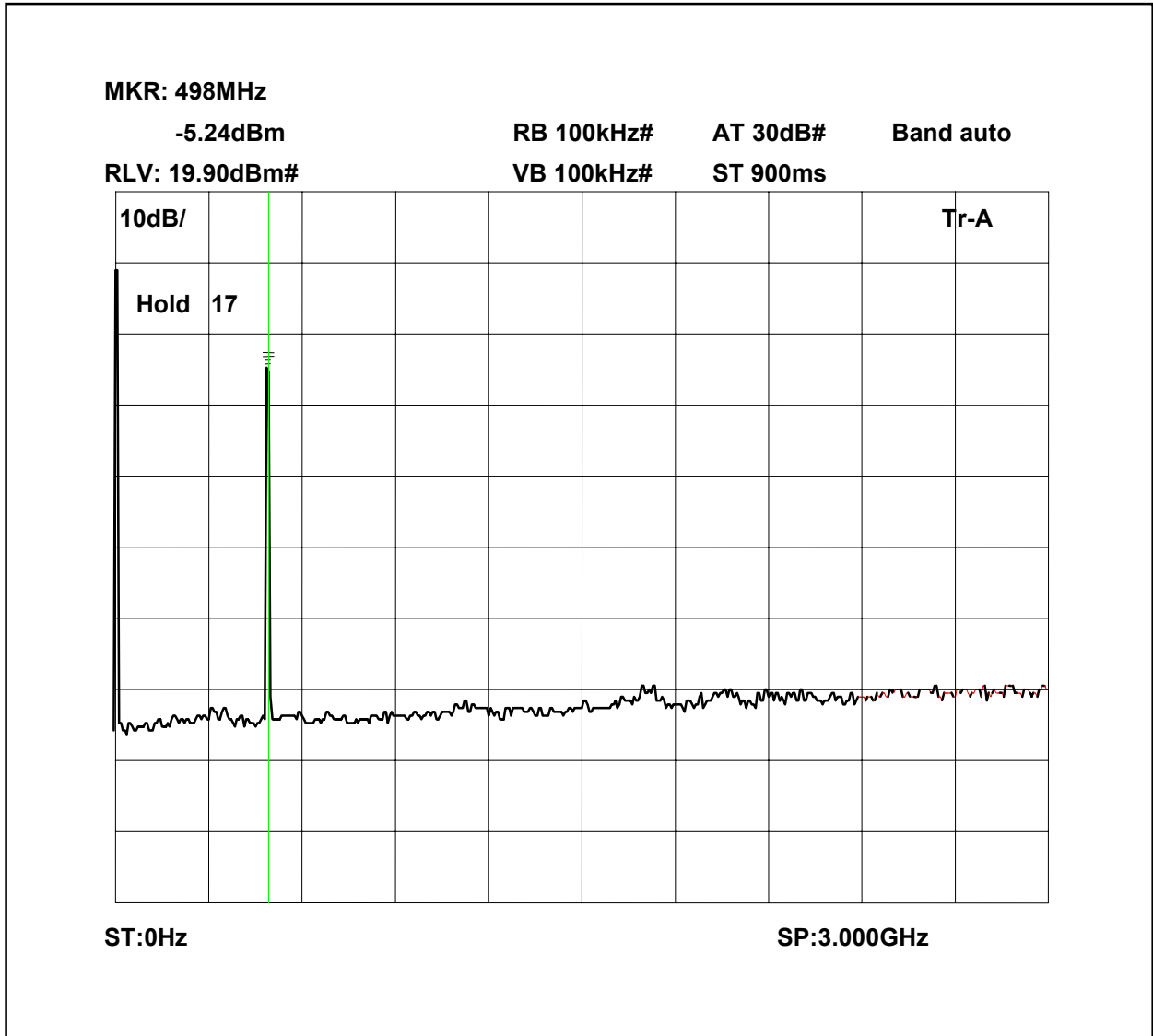
At least 43 + 10 log PdB

$$(10\log P_{\text{watts}}) - (43+10\log (P_{\text{watts}} \times 1000)) = \text{limit} = -13 \text{ dBm}$$

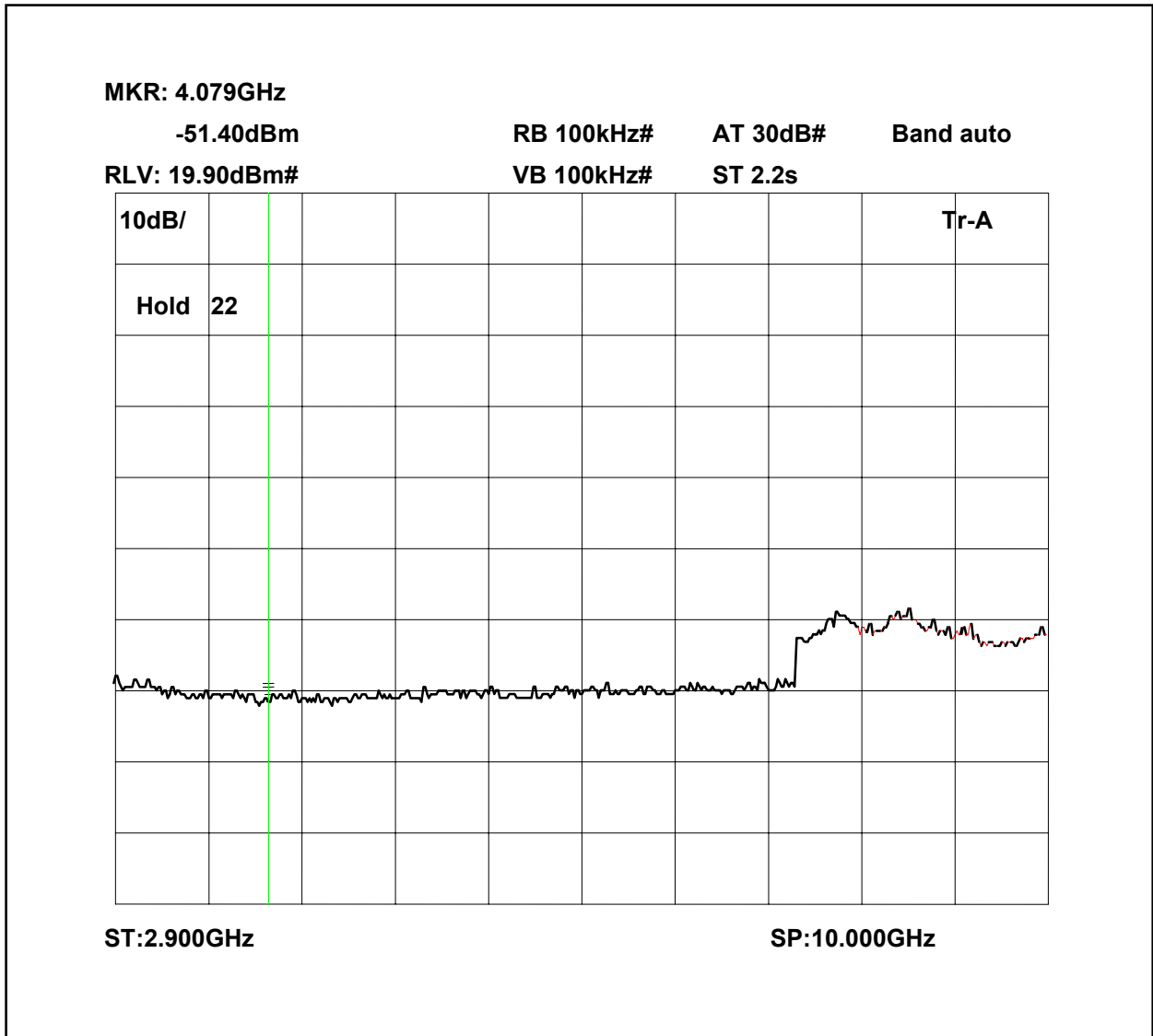
The test equipment used for the Transmitter Conducted Emissions:

TYPE OF EQUIPMENT	MAKER/SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	X
ATTENUATOR	BIRD	8304-200	N/A	103	X
ATTENUATOR	BIRD	8308-100	N/A	112	X
CABLE	ROSENBERGER	MICRO COAX	N/A	279	X
SIGNAL GENERATOR	MARCON	2042	119388/080	179	X

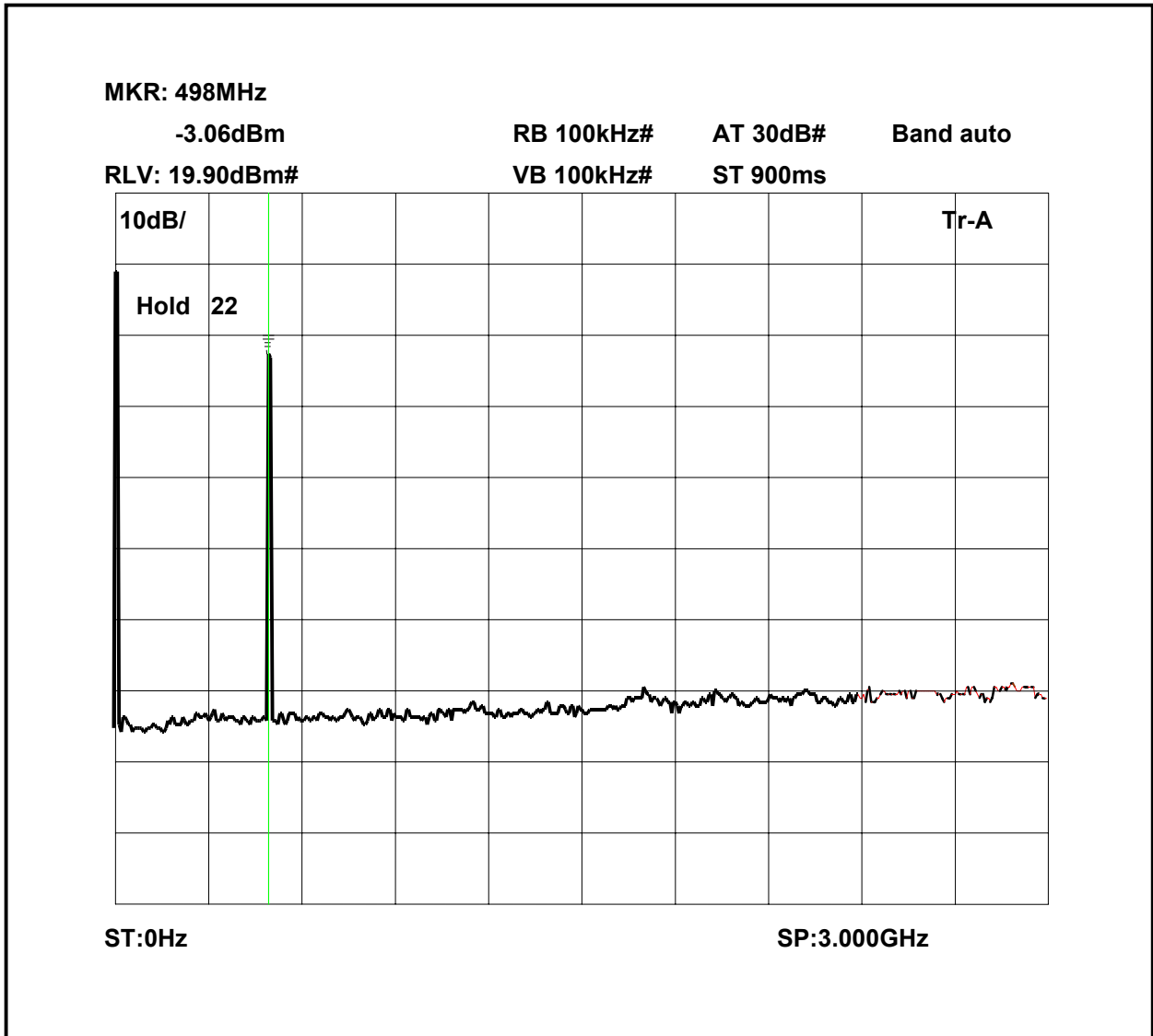
Conducted emissions 485.5875MHz 0-3GHz



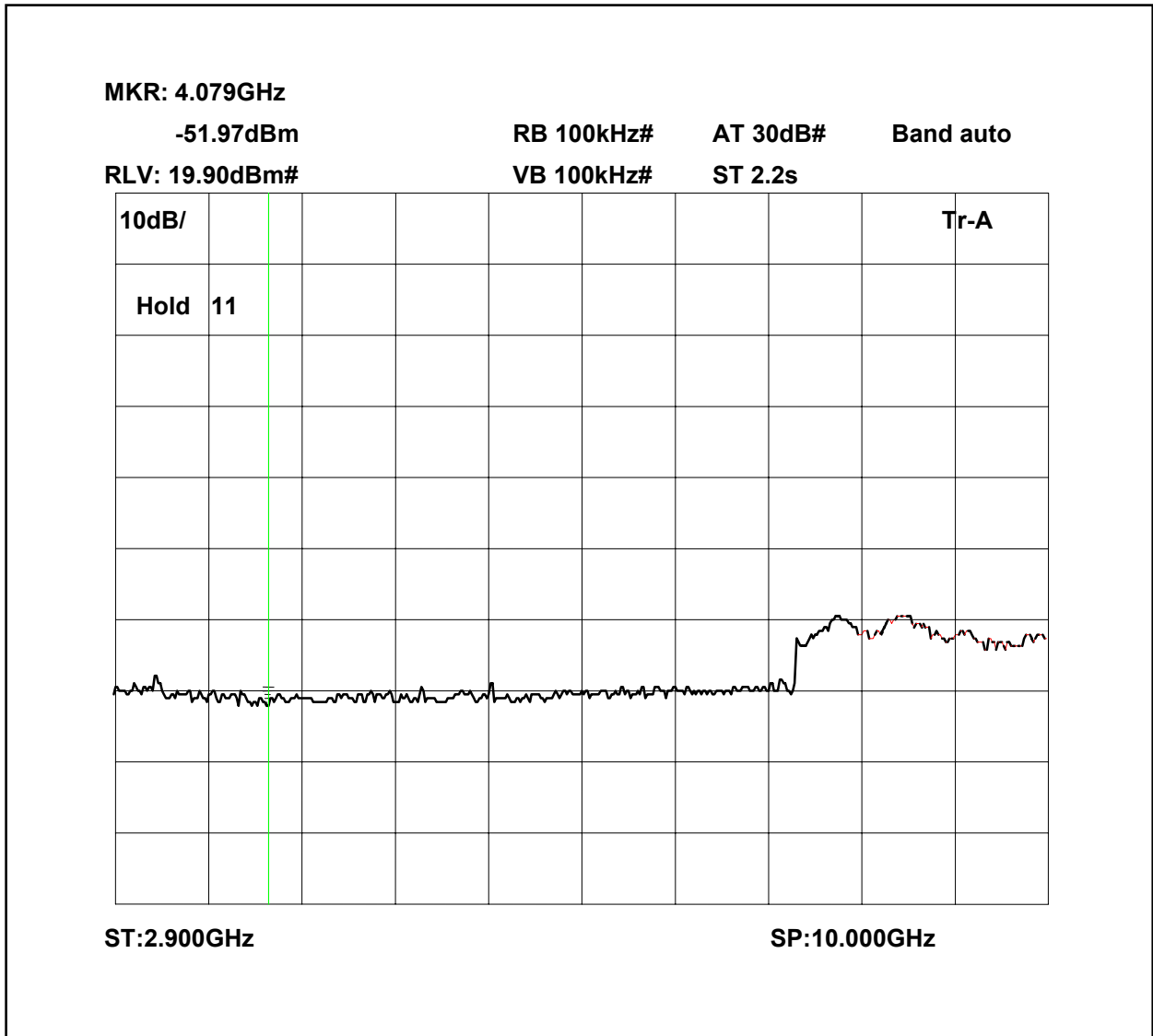
Conducted emissions 485.5875MHz 2.9-10GHz



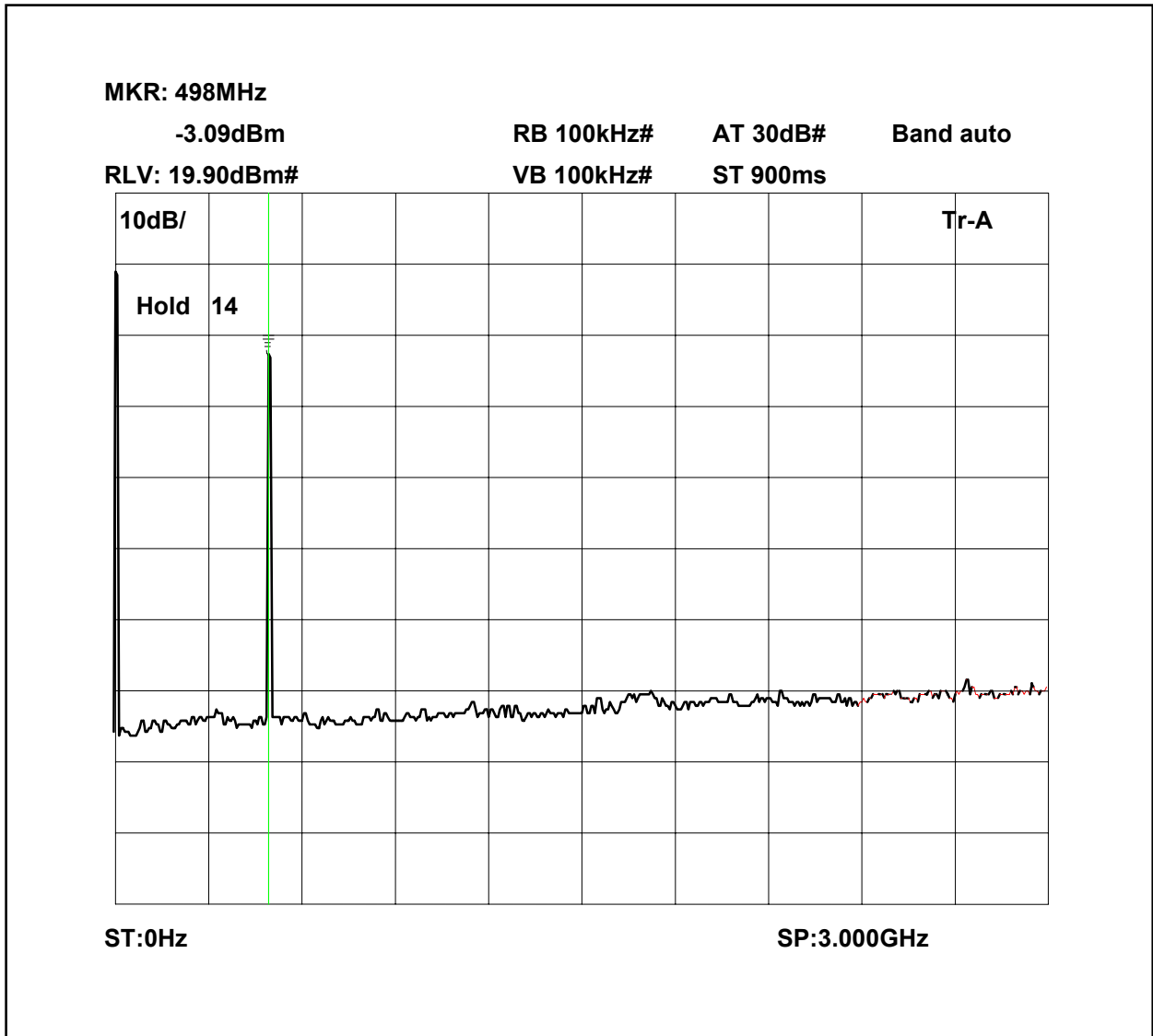
Conducted emissions 491.8375MHz 0-3GHz



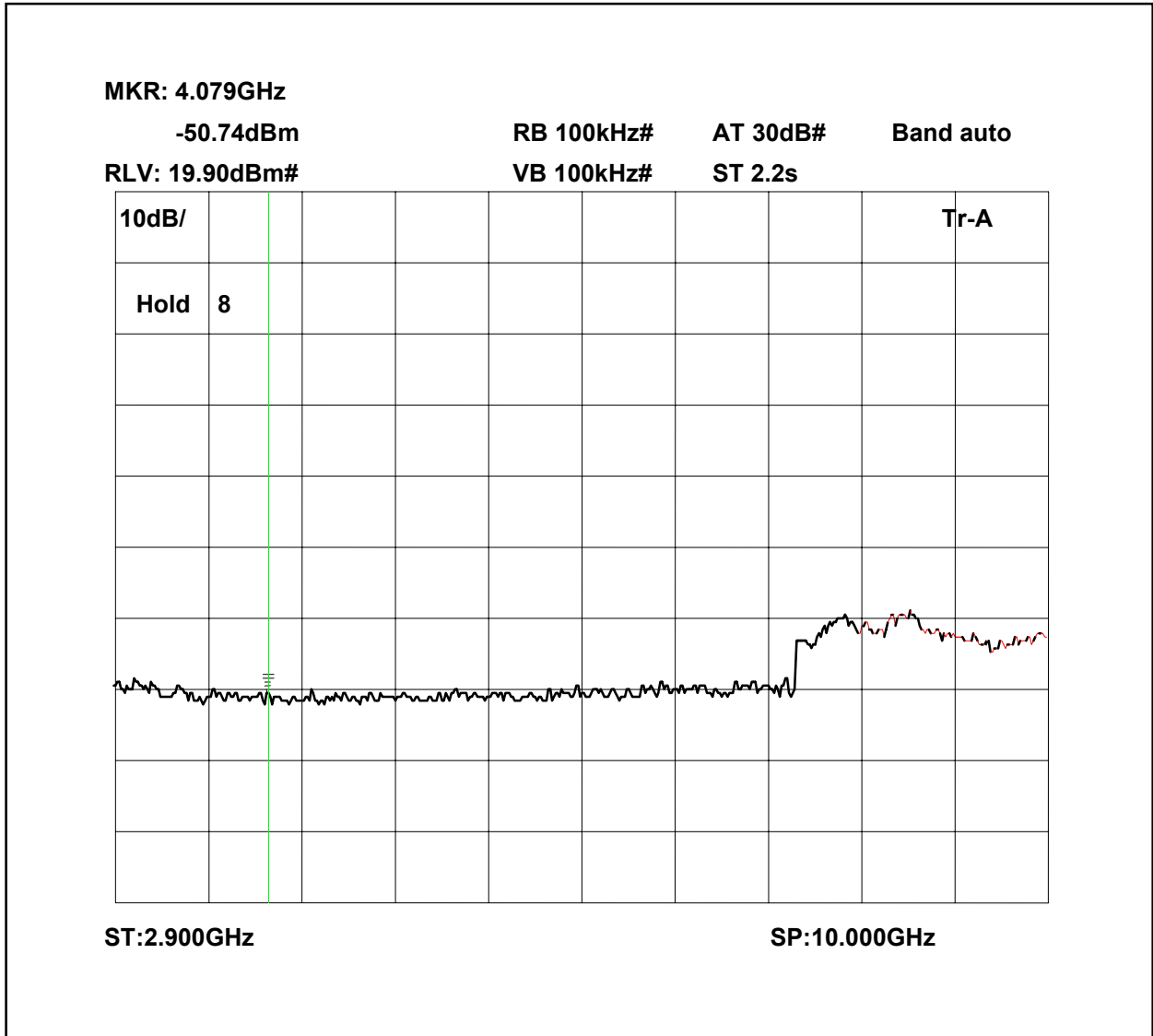
Conducted emissions 491.8375MHz 2.9-10GHz



Conducted emissions 492.1750MHz 0-3GHz



Conducted emissions 492.1750MHz 2.9-10GHz

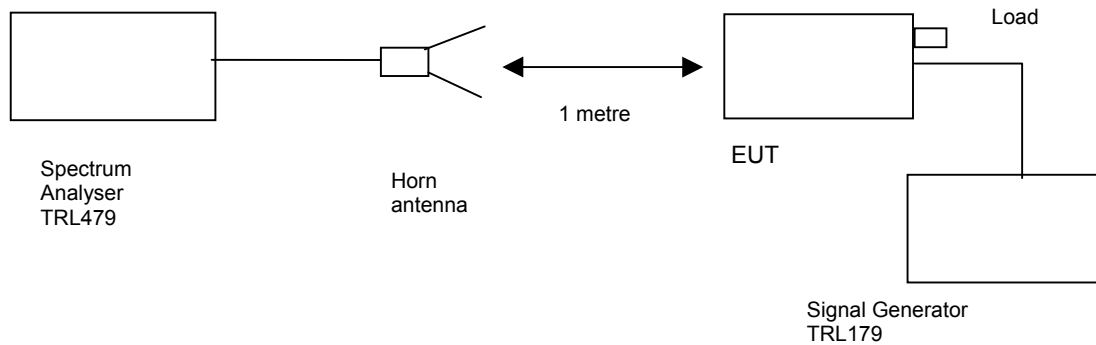


TRANSMITTER TESTS

AMPLIFIER SPURIOUS EMISSIONS – RADIATED – Part 2.1053– DOWNLINK

Ambient temperature = 22°C
Relative humidity = 60%
Conditions = OATS
Supply voltage = 110V AC
Supply Frequency = 60Hz

Test Signal = F3E



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.

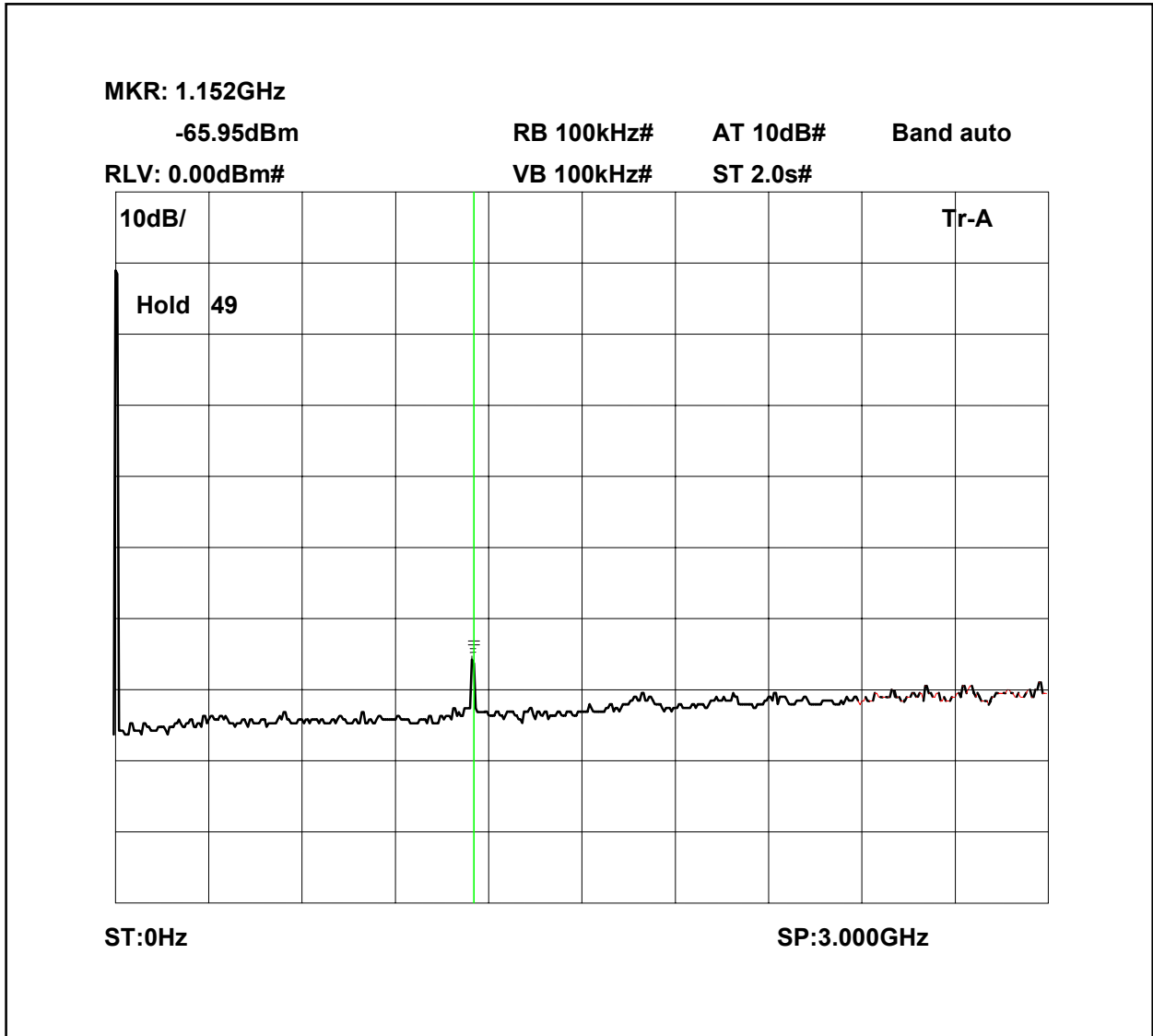
The Spurious limit was calculated as follows:

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

At least $43 + 10 \log P_{dB}$

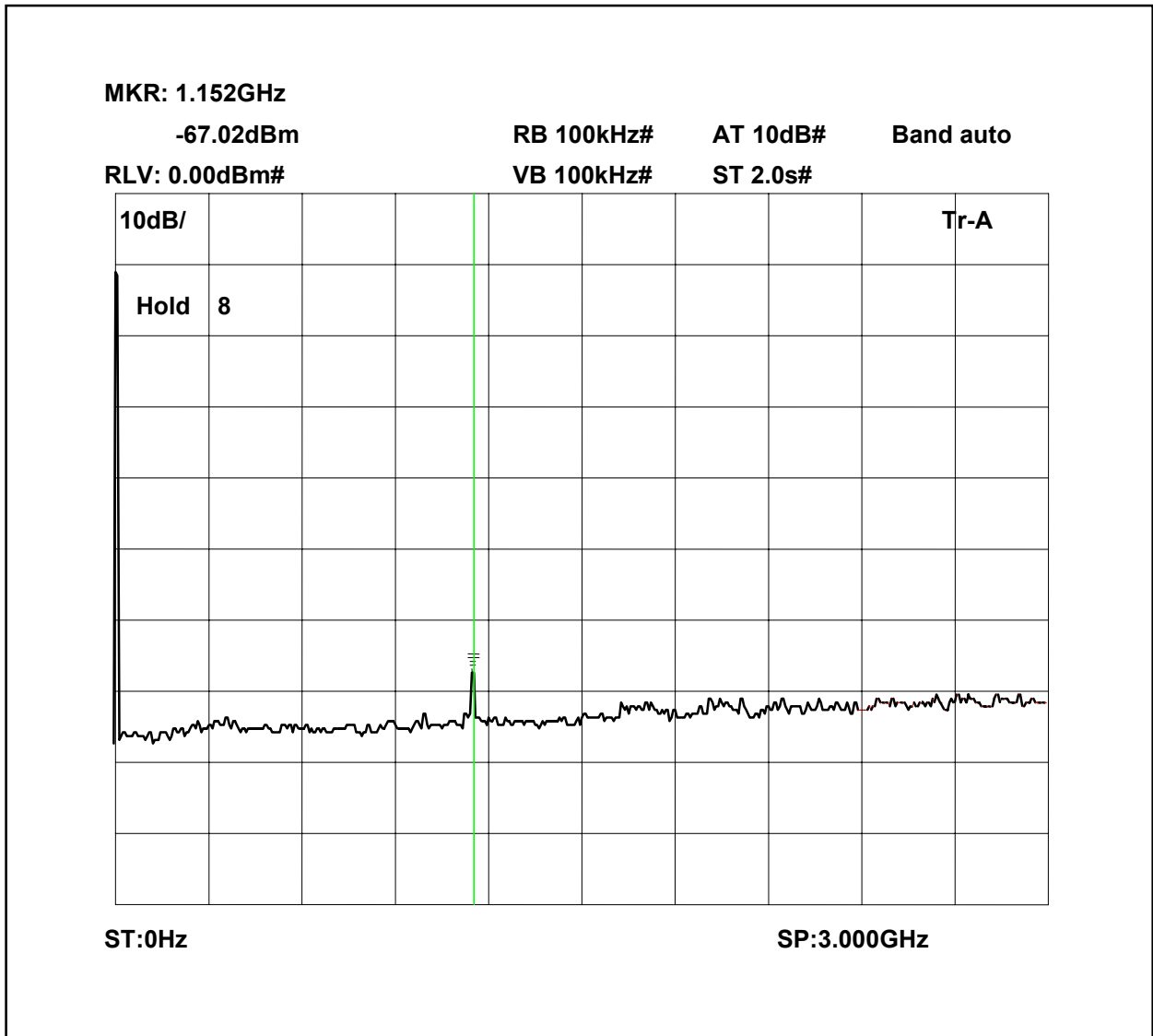
$$(10\log P_{\text{watts}}) - (43 + 10\log (P_{\text{watts}} \times 1000)) = \text{limit} = -13 \text{ dBm}$$

Radiated emissions 485.5875MHz 0-3GHz



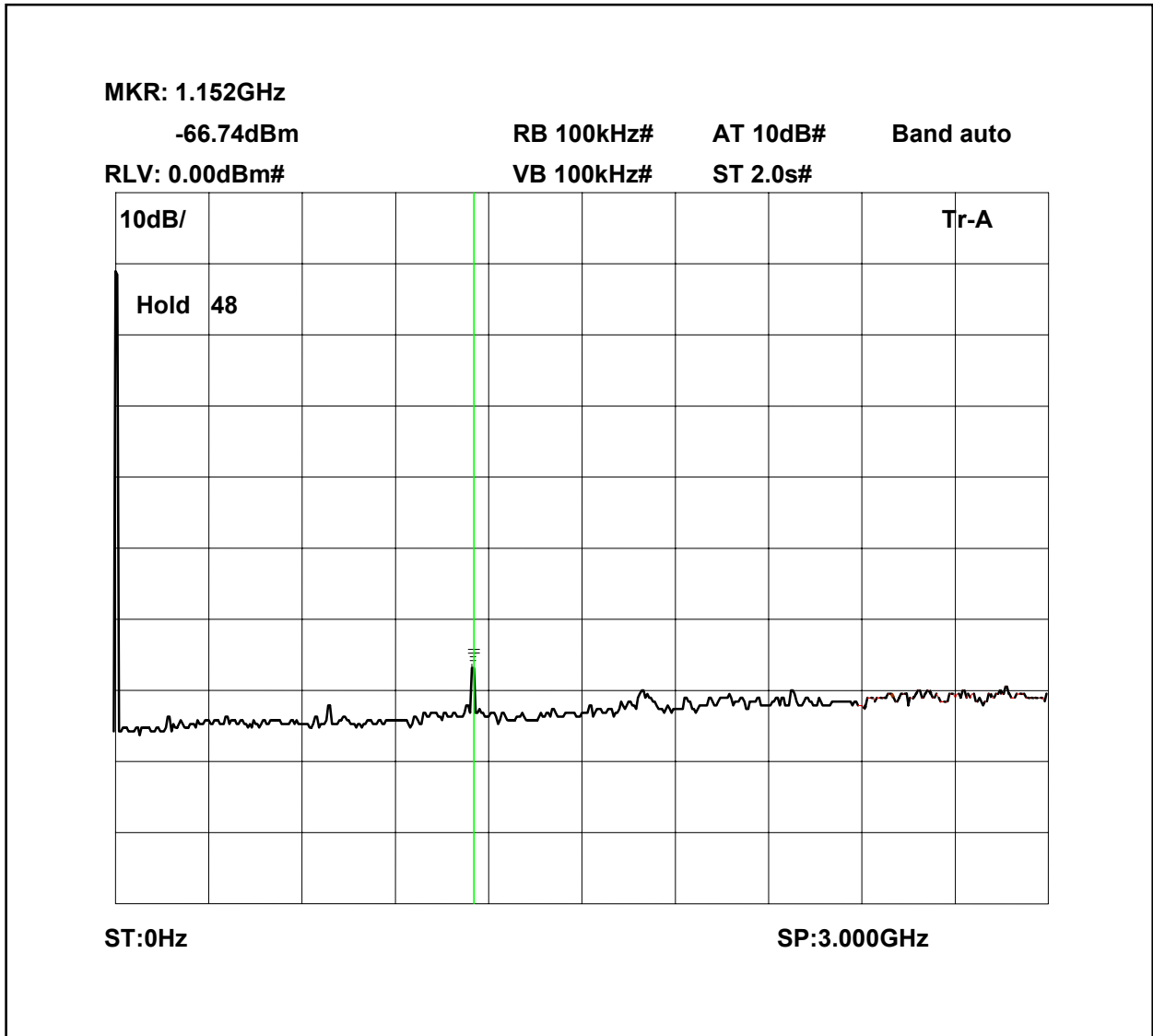
The above test results show that there were no emissions within 20dBs of the -13dBm limit.

Radiated emissions 491.8375MHz 0-3GHz



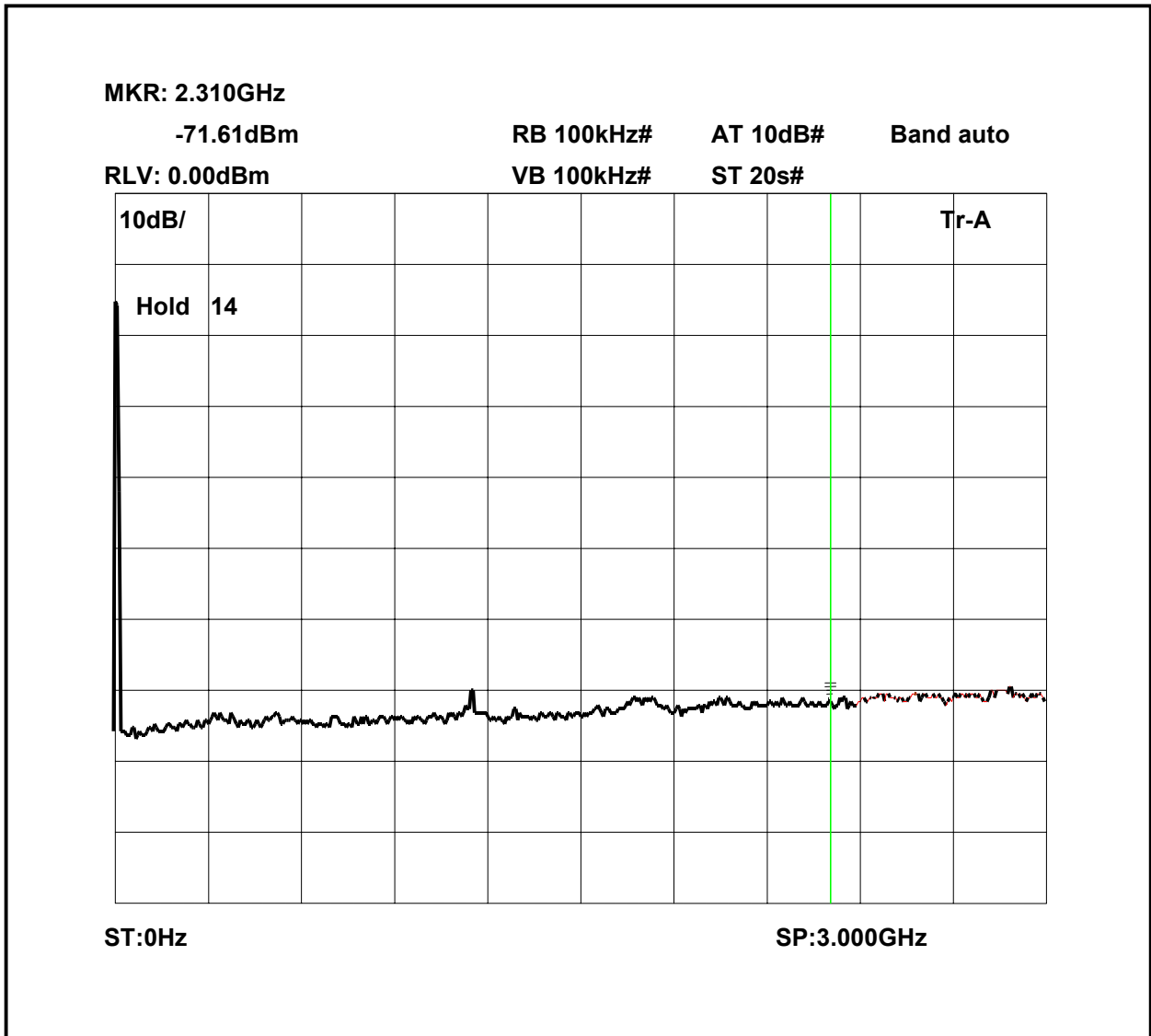
The above test results show that there were no emissions within 20dBs of the -13dBm limit.

Radiated emissions 492.1750MHz 0-3GHz



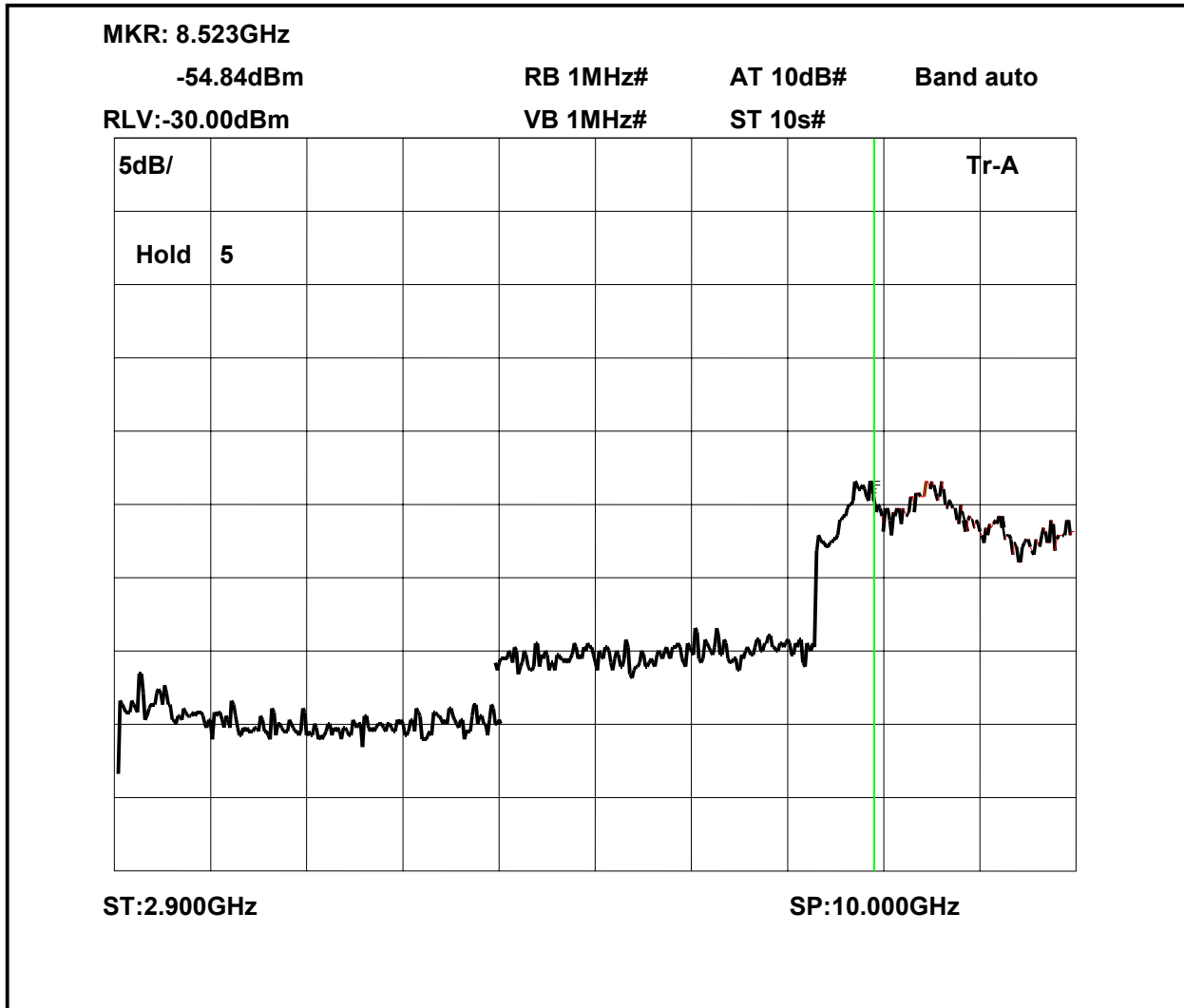
The above test results show that there were no emissions within 20dBs of the -13dBm limit.

Radiated emissions no input signal 0-3GHz



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

Radiated emissions no input signal 2.9-10GHz



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

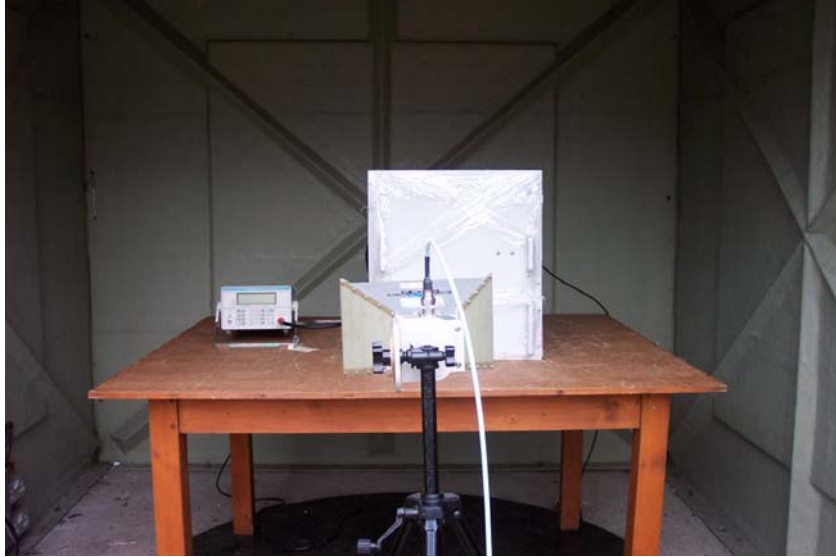
The test equipment used for the Transmitter Spurious Emissions:

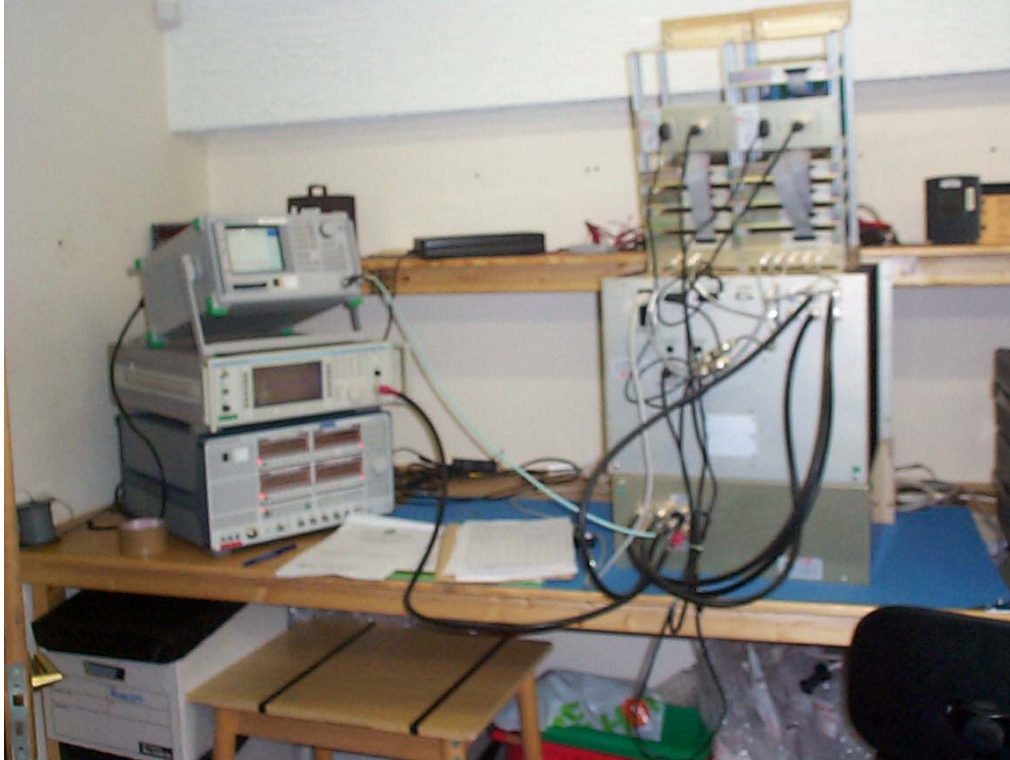
TYPE OF EQUIPMENT	MAKER/SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	X
HORN	EMCO	3115	9010-3581	139	X
ATTENUATOR	BIRD	8304-200	N/A	103	X
ATTENUATOR	BIRD	8308-100	N/A	112	X
CABLE	ROSENBERGER	MICRO COAX	N/A	279	X
SIGNAL GENERATOR	MARCON	2042	119388/080	179	X

ANNEX A
PHOTOGRAPHS

PHOTOGRAPH No. 1

TEST SETUP





ANNEX B
APPLICANT'S SUBMISSION OF DOCUMENTATION LIST

APPLICANT'S SUBMISSION OF DOCUMENTATION LIST

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