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**CLASS B INDUSTRIAL BOOSTER
FCC PART 90
TEST REPORT**

Applicant	RADIO SOLUTIONS, INC.
Address	70 ACCORD PARK DRIVE NORWELL, MA. 02061 USA
FCC ID	2AHVPSB7800M2A
Model Number	SB7800M2A
Product Description	VHF PART 90 INDUSTRIAL BOOSTER
Date Sample Received	8/22/2017
Date Tested	09/05/2017
Tested By	Christian Pawlak
Approved By	Sid Sanders
Test Results	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL

Report Number	Version Number	Description	Issue Date
1529AUT17TestReport	Rev1	Initial Issue	9/14/2017
	Rev3	Revised Report	11/13/2017

**THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.**

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GENERAL REMARKS

The attached report shall not be reproduced except in full without the written permission of Timco Engineering Inc.

Summary

The device under test does:

- ☒ Fulfill the general approval requirements as identified in this test report and was selected by the customer.
- ☐ Not fulfill the general approval requirements as identified in this test report

Attestations

This equipment has been tested in accordance with the standards identified in this test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report.

All instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 17025 requirements.

I attest that the necessary measurements were made at:

Timco Engineering Inc.
849 NW State Road 45
Newberry, FL 32669



Tested by:

Name and Title: Christian Pawlak, Project Manager

Date: 09/05/2017



Reviewed and approved by: _____

Name and Title: Sid Sanders, Engineer

Date: 9/20/17

APPLICANT: RADIO SOLUTIONS, INC.

FCC ID: 2AHVPSB7800M2A

REPORT #: 1529AUT17TestReport_Rev3

EUT DESCRIPTION

EUT Description	PART 90 INDUSTRIAL BOOSTER
FCC ID	2AHVPSB7800M2A
Model Number	SB7800M2A
Operating Frequency	UL: 793-805 MHz, 806-815 MHz DL: 763-775 MHz, 851-860 MHz
Type of Emission	F3E, F3D, F1E
EUT Power Source	<input checked="" type="checkbox"/> 110–120Vac/50– 60Hz
	<input type="checkbox"/> DC Power 27V
	<input type="checkbox"/> Battery Operated Exclusively
Test Item	<input type="checkbox"/> Prototype
	<input checked="" type="checkbox"/> Pre-Production
	<input type="checkbox"/> Production
Type of Equipment	<input checked="" type="checkbox"/> Fixed
	<input type="checkbox"/> Mobile
	<input type="checkbox"/> Portable
Test Conditions	The temperature was 26°C with a relative humidity of 50%.
Revision History to the EUT	None
Test Exercise	The EUT was operated in a normal mode.
Applicable Standards	FCC CFR 47 Part 90.219, KDB 935210 D05 v01r01, 971168 D01 v02r02
Test Facility	Timco Engineering Inc. at 849 NW State Road 45 Newberry, FL 32669 USA.

TEST RESULTS SUMMARY

FCC RULE PART	Limit	TEST DESCRIPTION	RESULT PASS/FAIL
47CFR90.219(e)(1) AND KDB 935210-D05 v01r01 §4.5	Reporting Only	Input/output power	Pass
KDB 935210-D05 v01r01 §4.2	Reporting Only	AGC Threshold	Pass
KDB 935210-D05 v01r01 §4.3	Reporting Only	Out-Of-band rejection	Pass
47CFR90.219(e)(4) AND KDB 935210-D05 v01r01 §4.4	Reporting Only	Input-versus-output signal comparison	Pass
47CFR90.219(e)(2) AND KDB 935210-D05 v01r01 §4.6	9 dB	Noise Figure	Pass
47CFR90.210 AND KDB 935210-D05 v01r01 §4.7.2	-13 dBm	Out-of-band/out-of- block Intermodulation	Pass
47CFR90.219(e)(3) AND KDB 935210-D05 v01r01 §4.7.3	-13 dBm	Spurious Emissions Conducted	Pass
47CFR90.213 AND KDB 935210-D05 v01r01 §4.8	Refer to Table	Frequency Stability	N/A
47CFR90.210 AND KDB 935210-D05 v01r01 §4.9	-13 dBm	Spurious emissions radiated	Pass

RF POWER OUTPUT AND AGC THRESHOLD §4.2

Rule Part No.: 47CFR90.219(e)(1)

Requirements: Report Only

Procedure: KDB 935210-D05 v01r01 §4.2
KDB 935210-D05 v01r01 §4.5

Test Data: AGC Threshold Measurement Table

Gen Freq (MHz)	Input Below AGC Threshold (dBm)	Output Below AGC Threshold (dBm)	Input Above AGC Threshold (dBm)	Output Above AGC Threshold (dBm)	Maximum Output Power (Watts)
Low	-64.00	28.86	-61.00	28.89	0.774
Middle	-64.00	29.75	-61.00	30.02	1.005
High	-64.00	30.13	-61.00	30.22	1.052

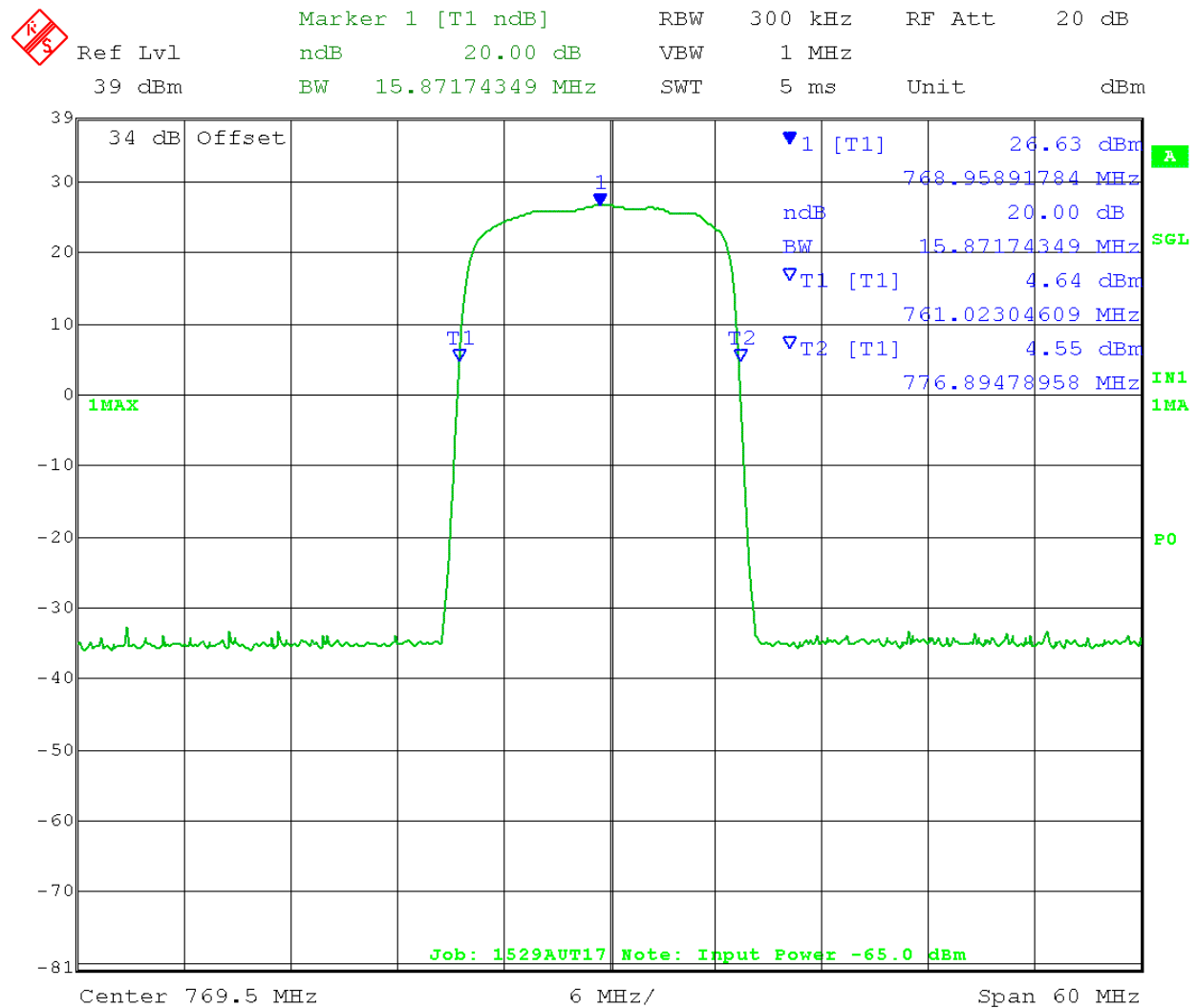
OUT-OF-BAND REJECTION § 4.3

Rule Part No.: KDB 935210 §4.3 Out of band rejection

Requirements: Report Only

Procedure: KDB 935210 §4.3 Out of band rejection

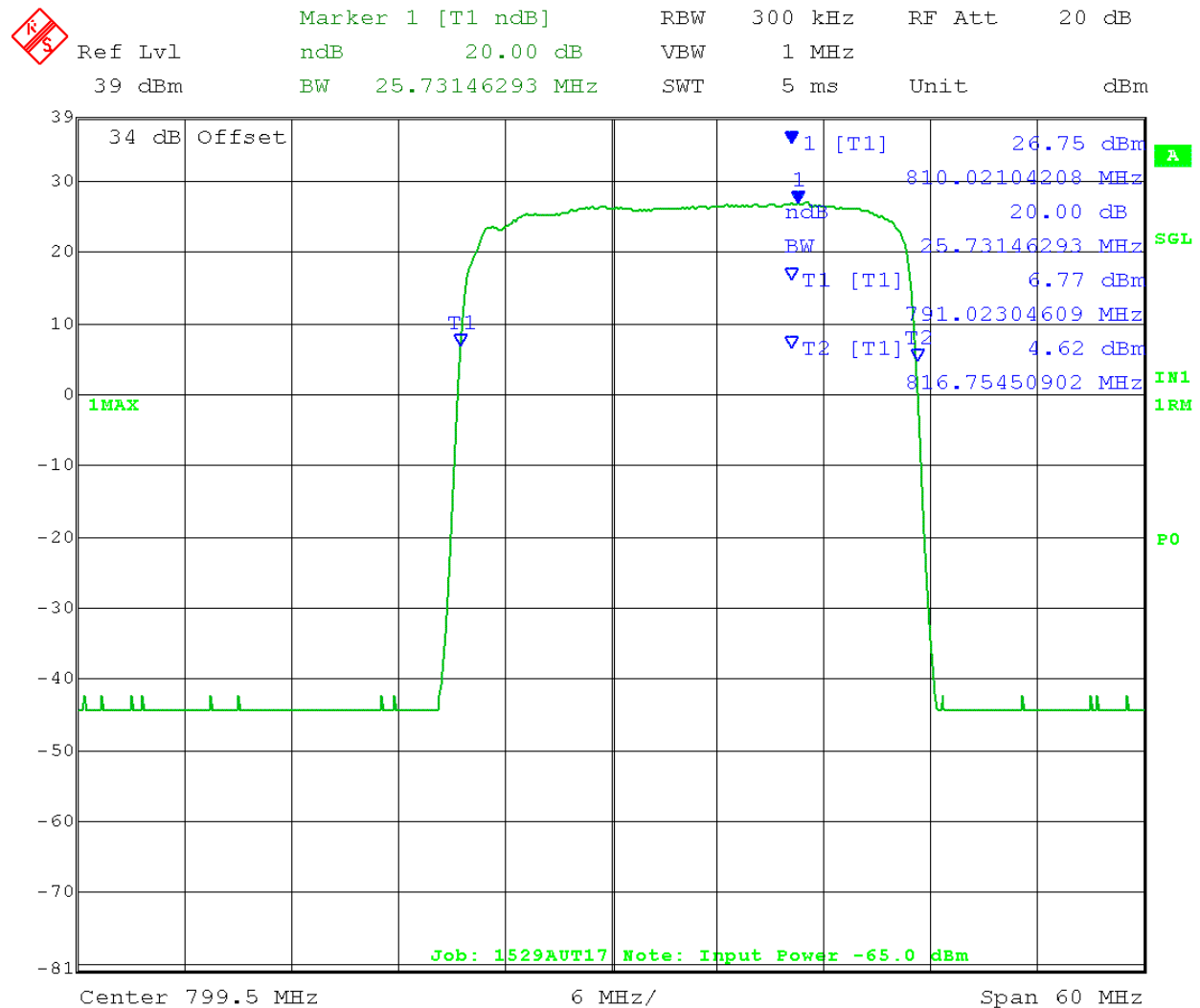
Test Data: 769.5 MHz Plot



Date: 19.OCT.2017 16:56:28

Out-of-Band Rejection §4.3

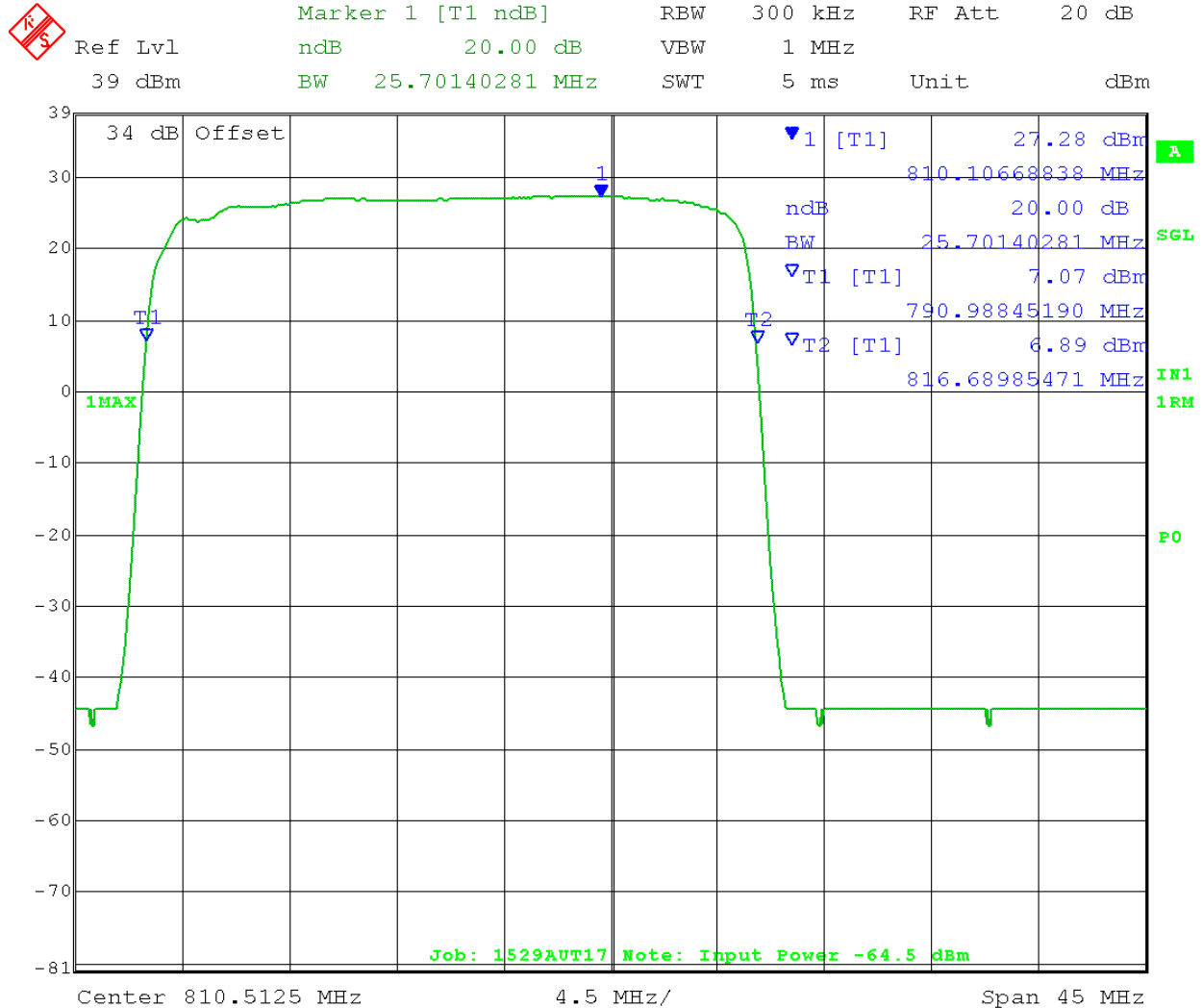
Test Data: 799.5 MHz Plot



Date: 19.OCT.2017 18:20:36

Out-of-Band Rejection §4.3

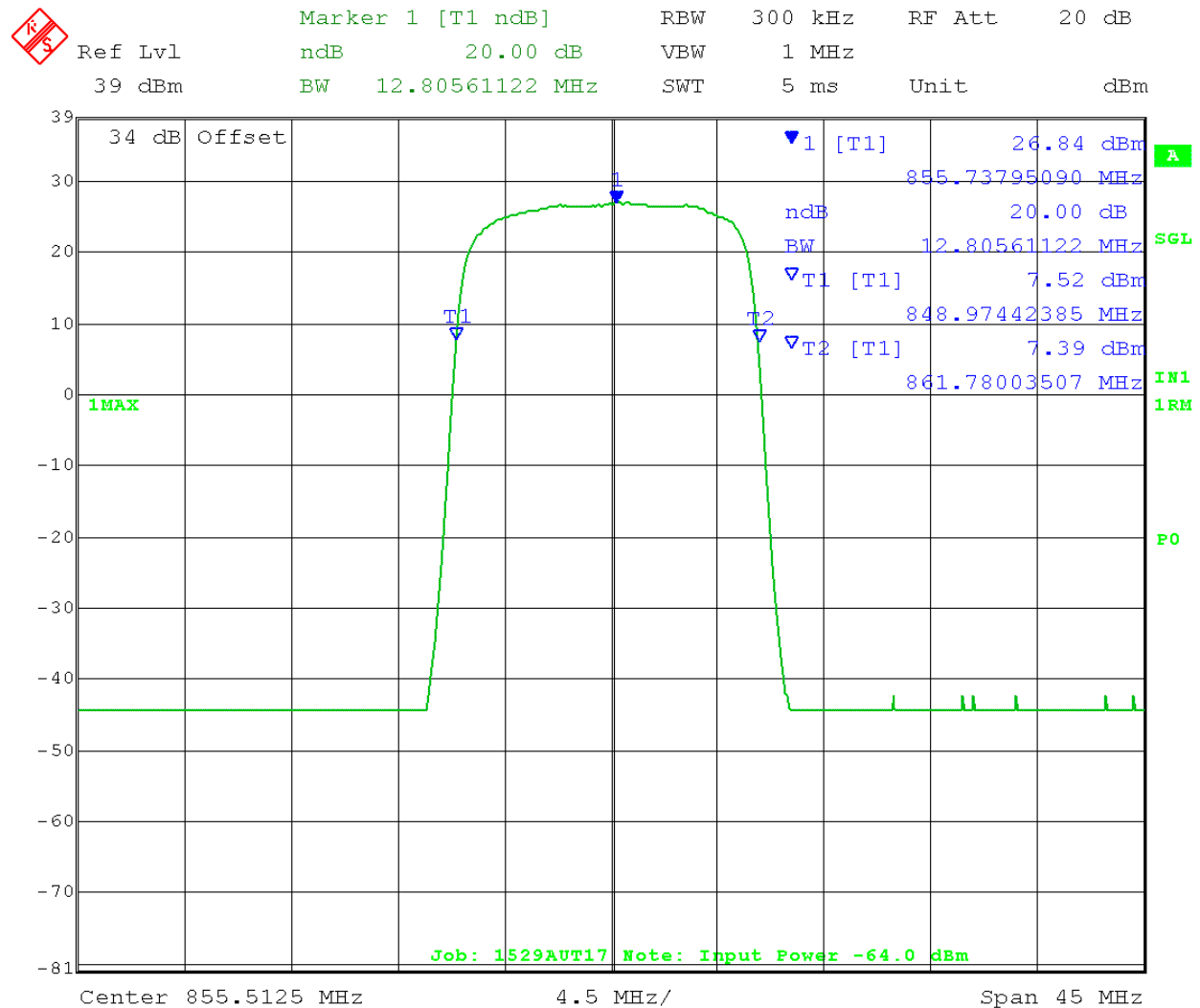
Test Data: 810.5125 MHz Plot



Date: 19.OCT.2017 19:15:46

Out-of-Band Rejection §4.3

Test Data: 855.5125 MHz Plot



Date: 19.OCT.2017 19:53:26

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

Rule Part No.: 47CFR90.219(e)(4)
KDB 935210-D05 v01r01 §4.4

Requirements: A signal booster must be designed such that all signals that it retransmits meet the following requirements:

The signals are retransmitted on the same channels as received. Minor departures from the exact provider or reference frequencies of the input signals are allowed, provided that the retransmitted signals meet the requirements of §90.213.

There is no change in the occupied bandwidth of the retransmitted signals.

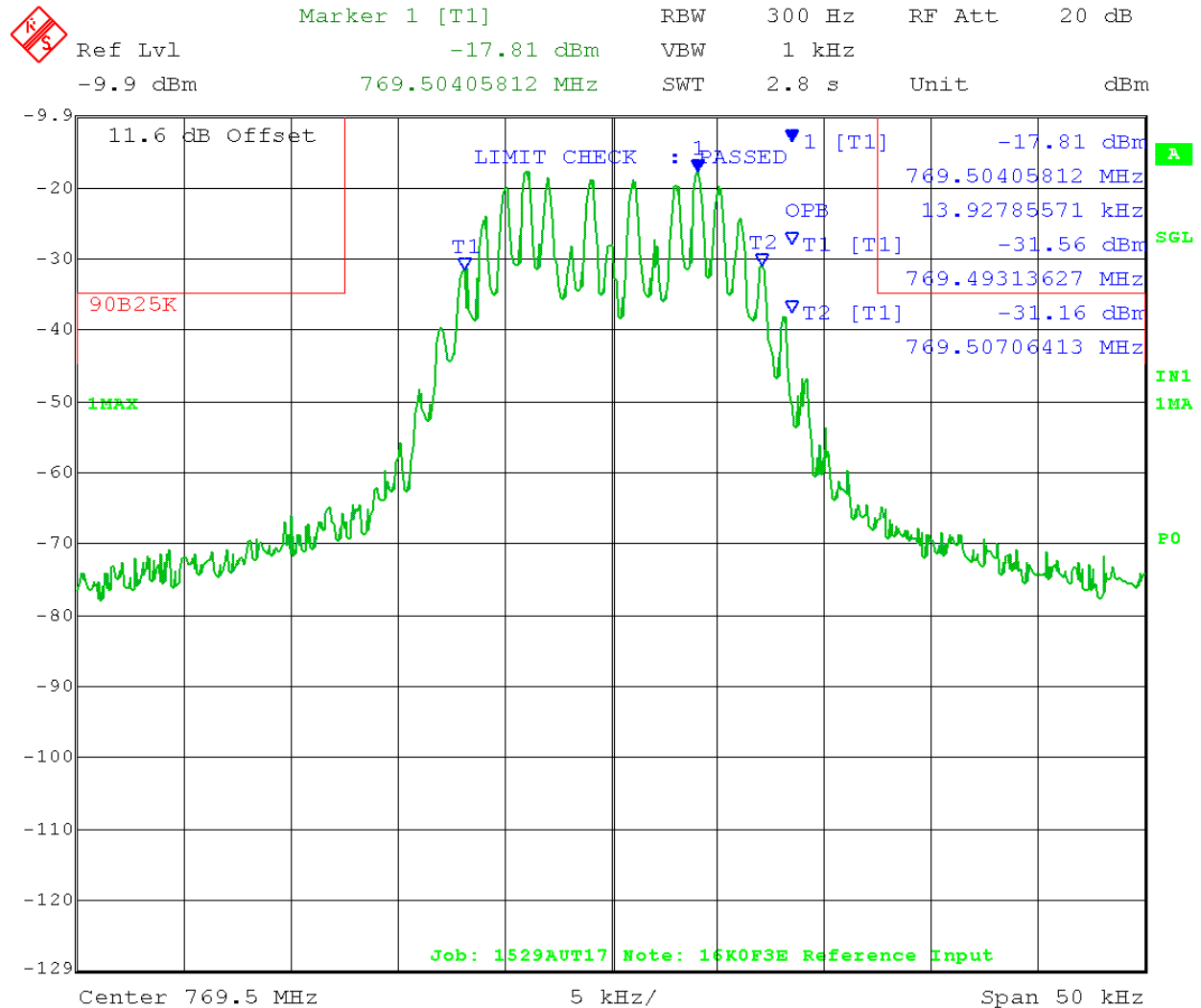
The retransmitted signals continue to meet the unwanted emissions limits of §90.210 applicable to the corresponding received signals (assuming that these received signals meet the applicable unwanted emissions limits by a reasonable margin).

Procedure: KDB935210 § 4.4 Input versus output signal comparison

The EUT was test for this requirement at 3 places in the band and the data below represents the worst case.

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

Test Data: 769.5MHz Input for 16K0F3E



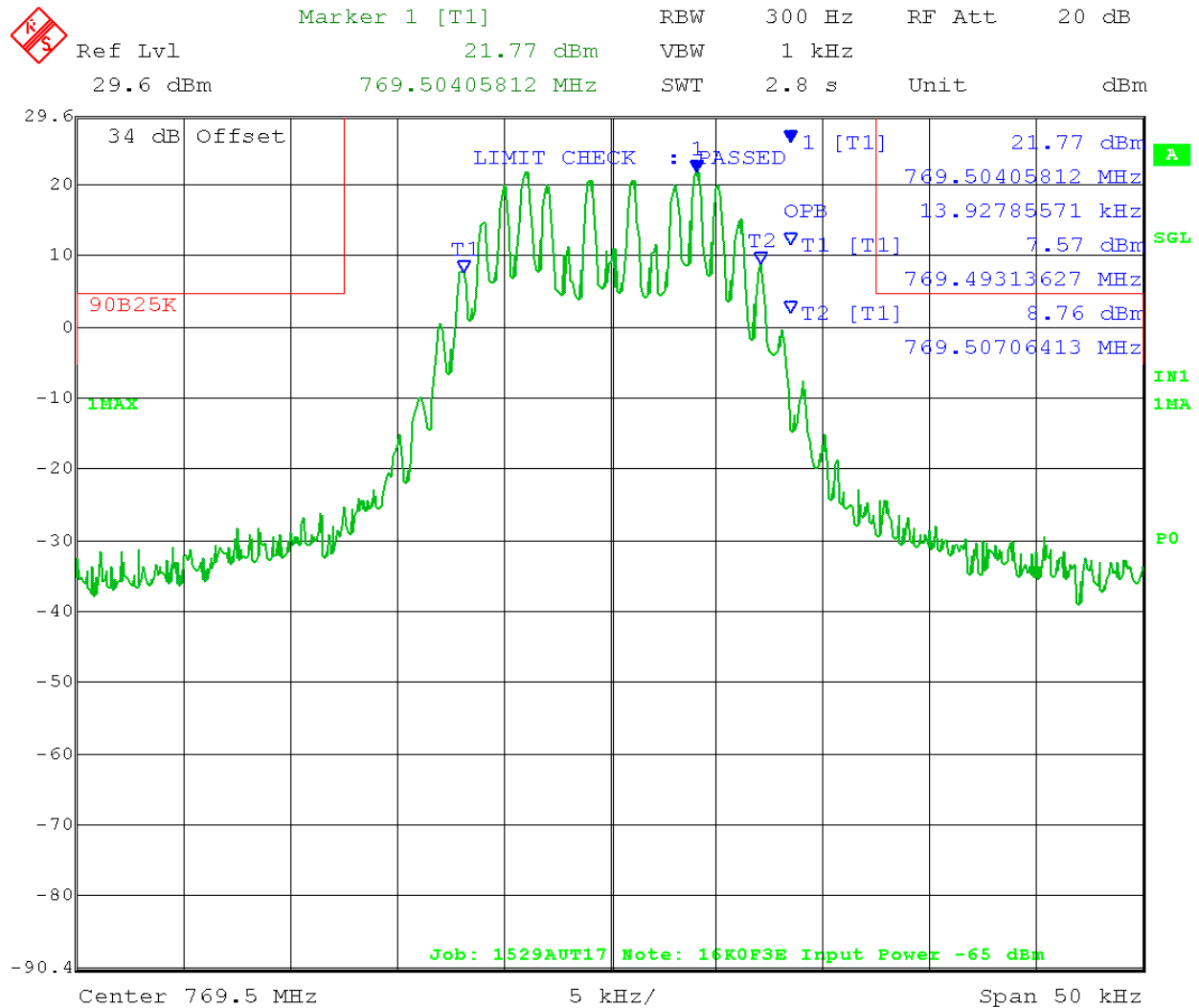
Date: 19.OCT.2017 16:09:45

APPLICANT: RADIO SOLUTIONS, INC.
 FCC ID: 2AHVPSB7800M2A
 REPORT #: 1529AUT17TestReport_Rev3

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INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

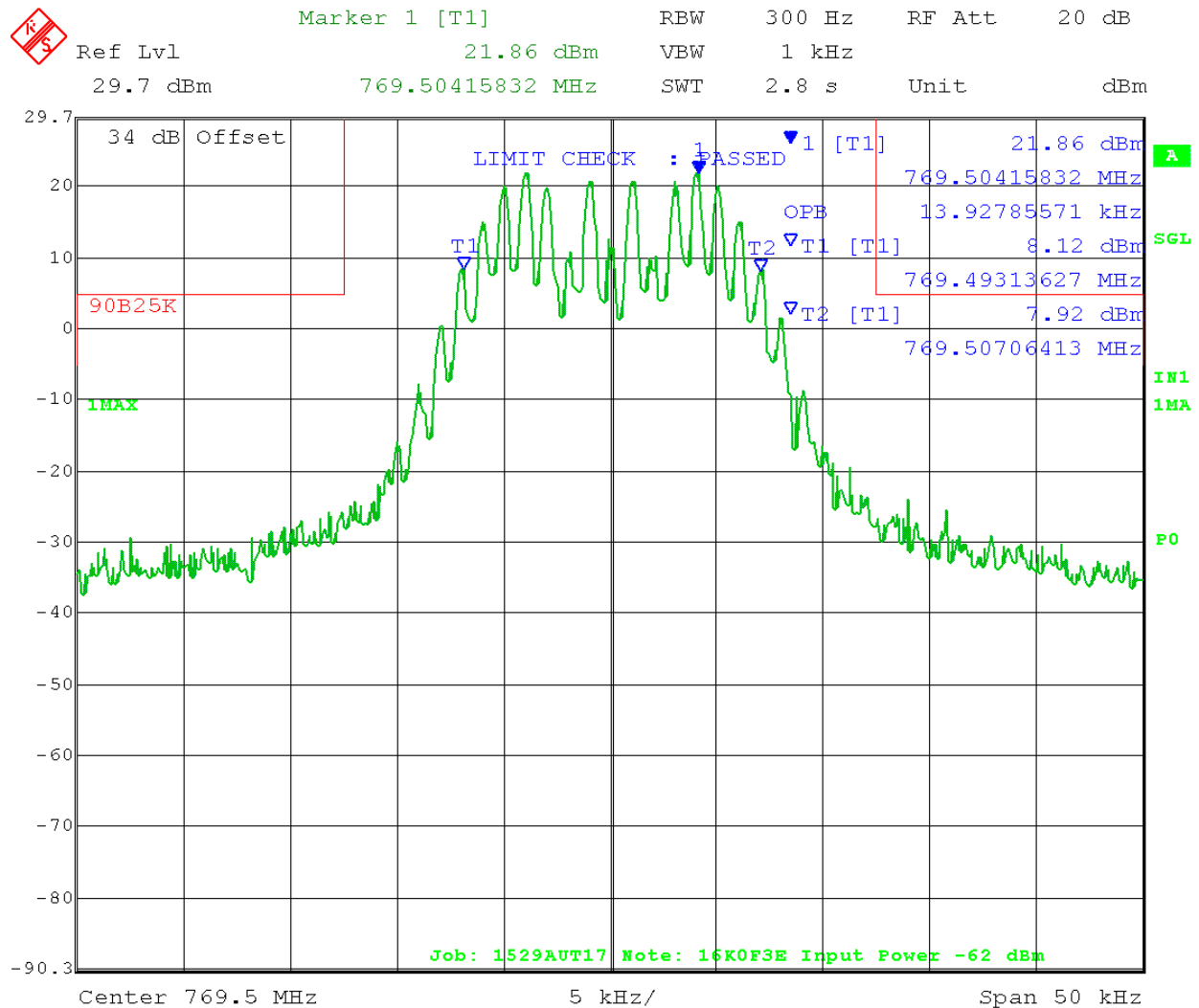
Test Data: 769.5MHz Output without AGC for 16K0F3E



Date: 19.OCT.2017 17:11:27

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

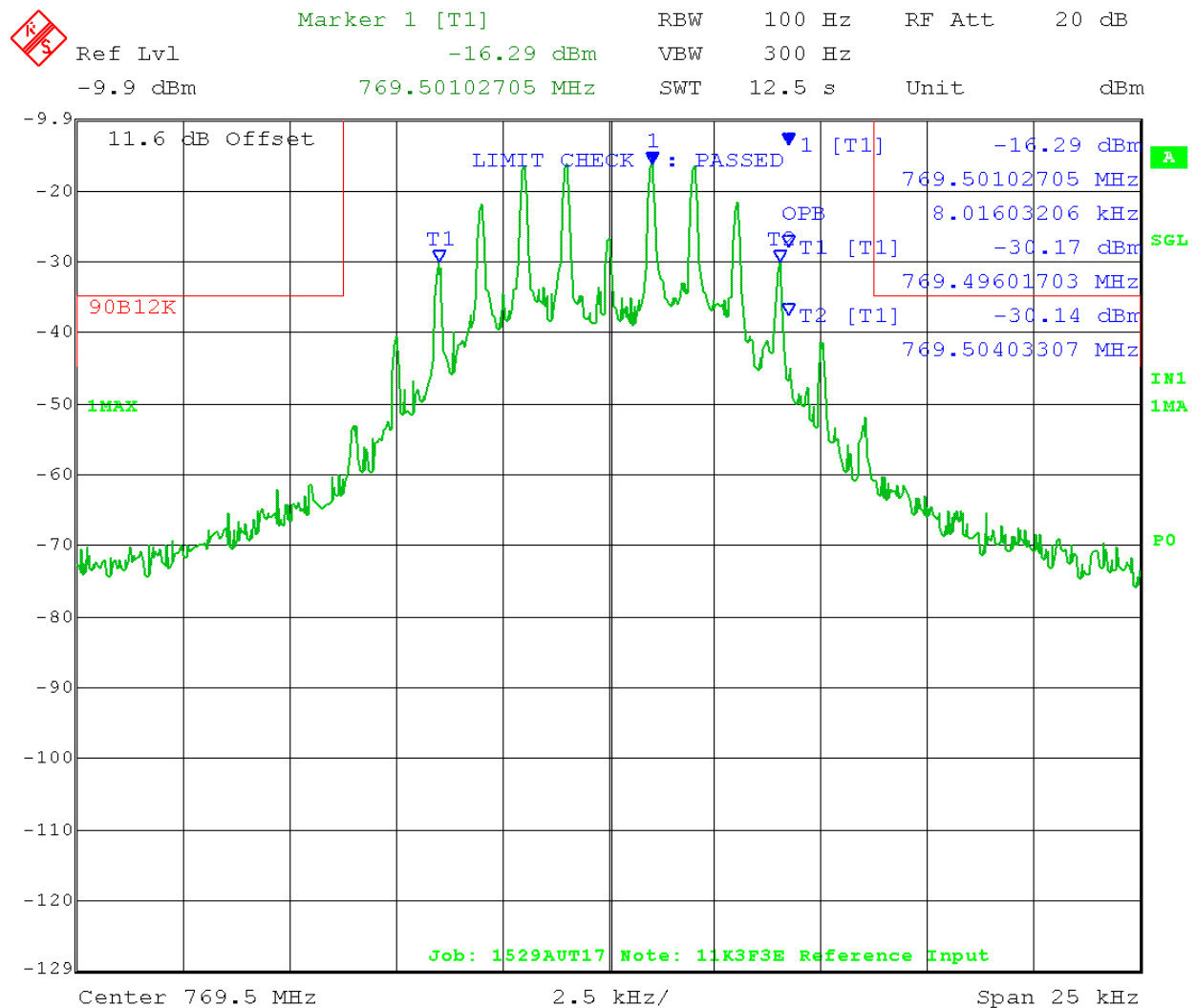
Test Data: 769.5MHz Output with AGC for 16K0F3E



Date: 19.OCT.2017 17:11:59

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

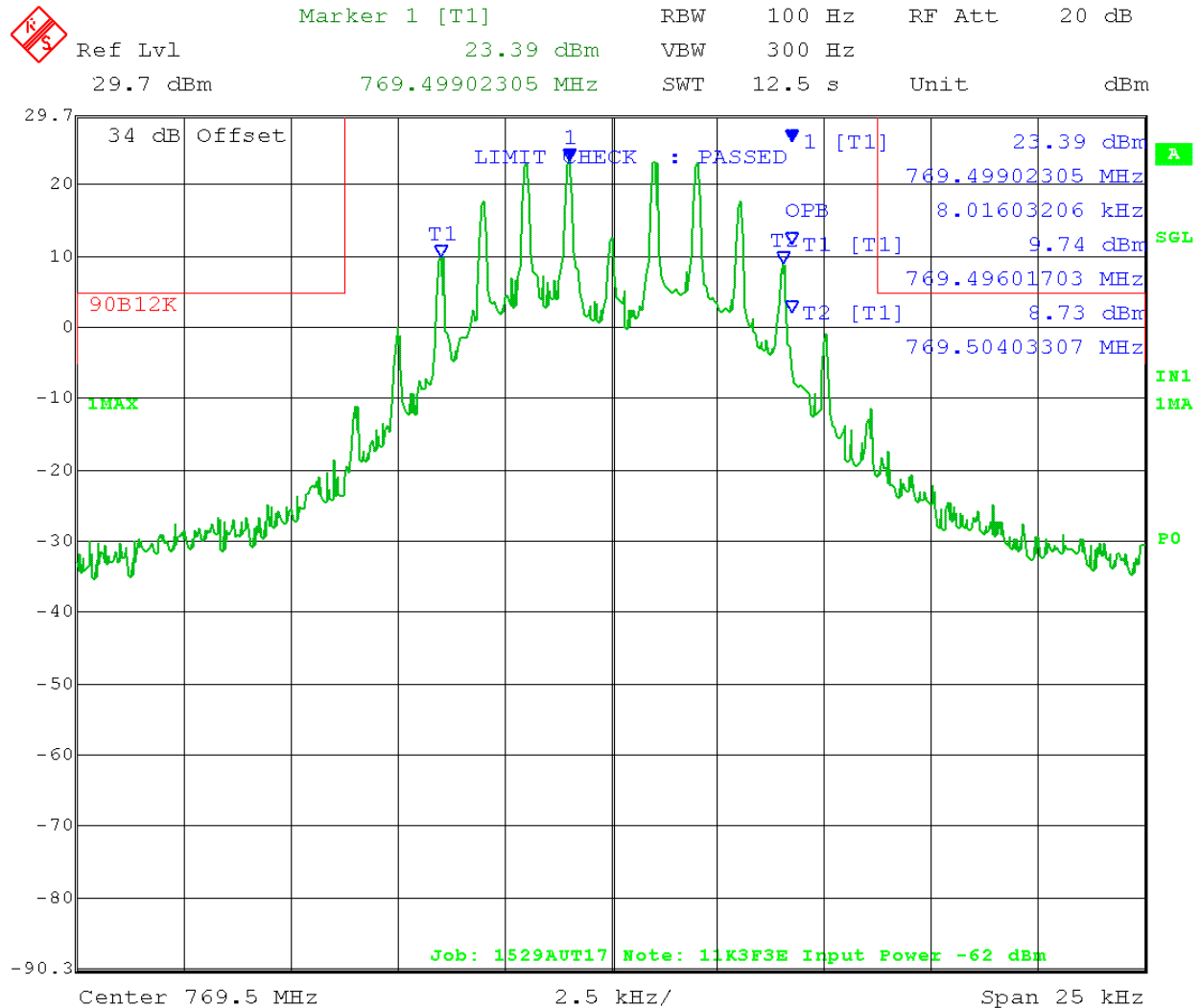
Test Data: 769.5MHz Input for 11K3F3E



Date: 19.OCT.2017 16:11:07

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

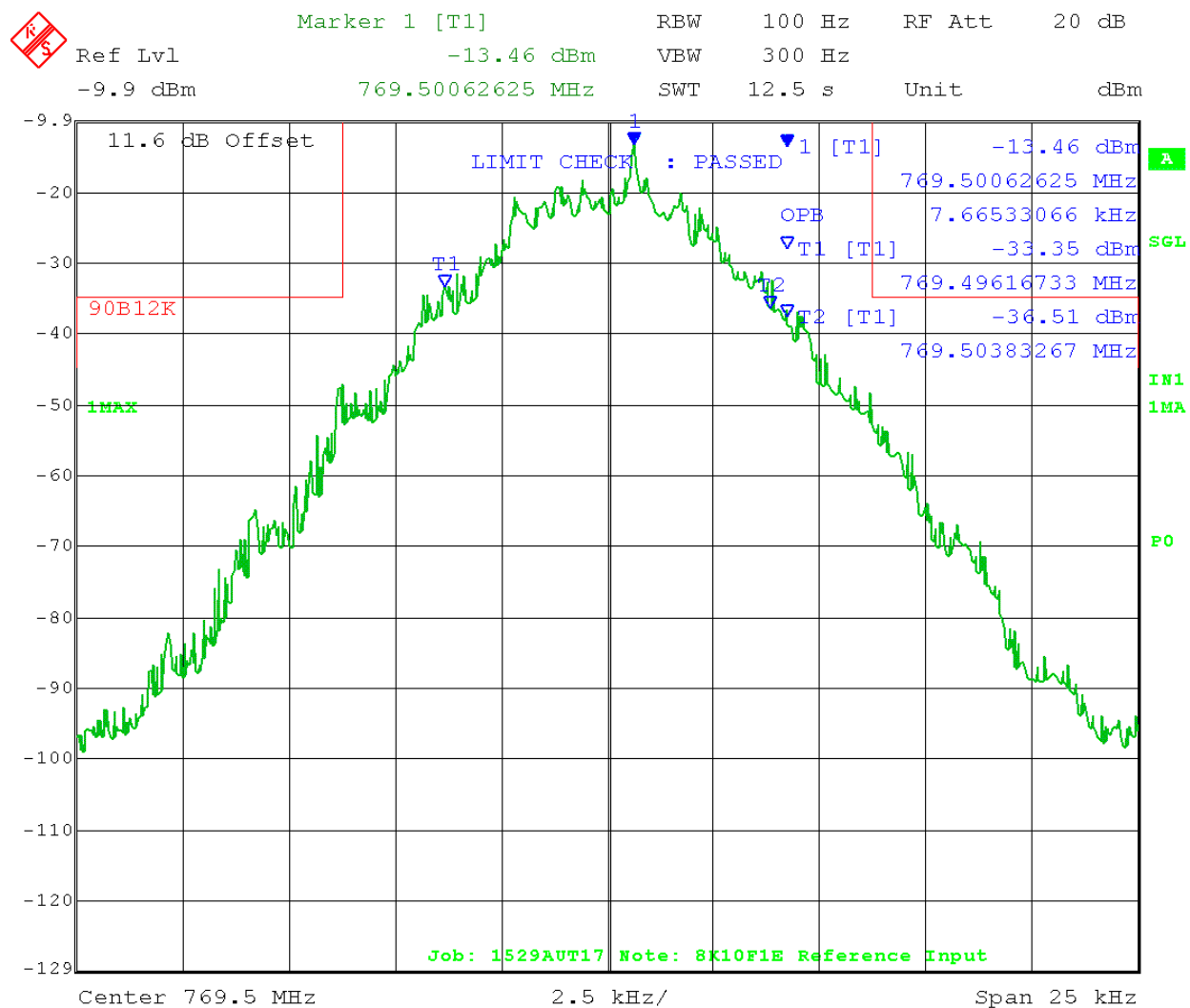
Test Data: 769.5MHz Output with AGC for 11K3F3E



Date: 19.OCT.2017 17:14:42

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

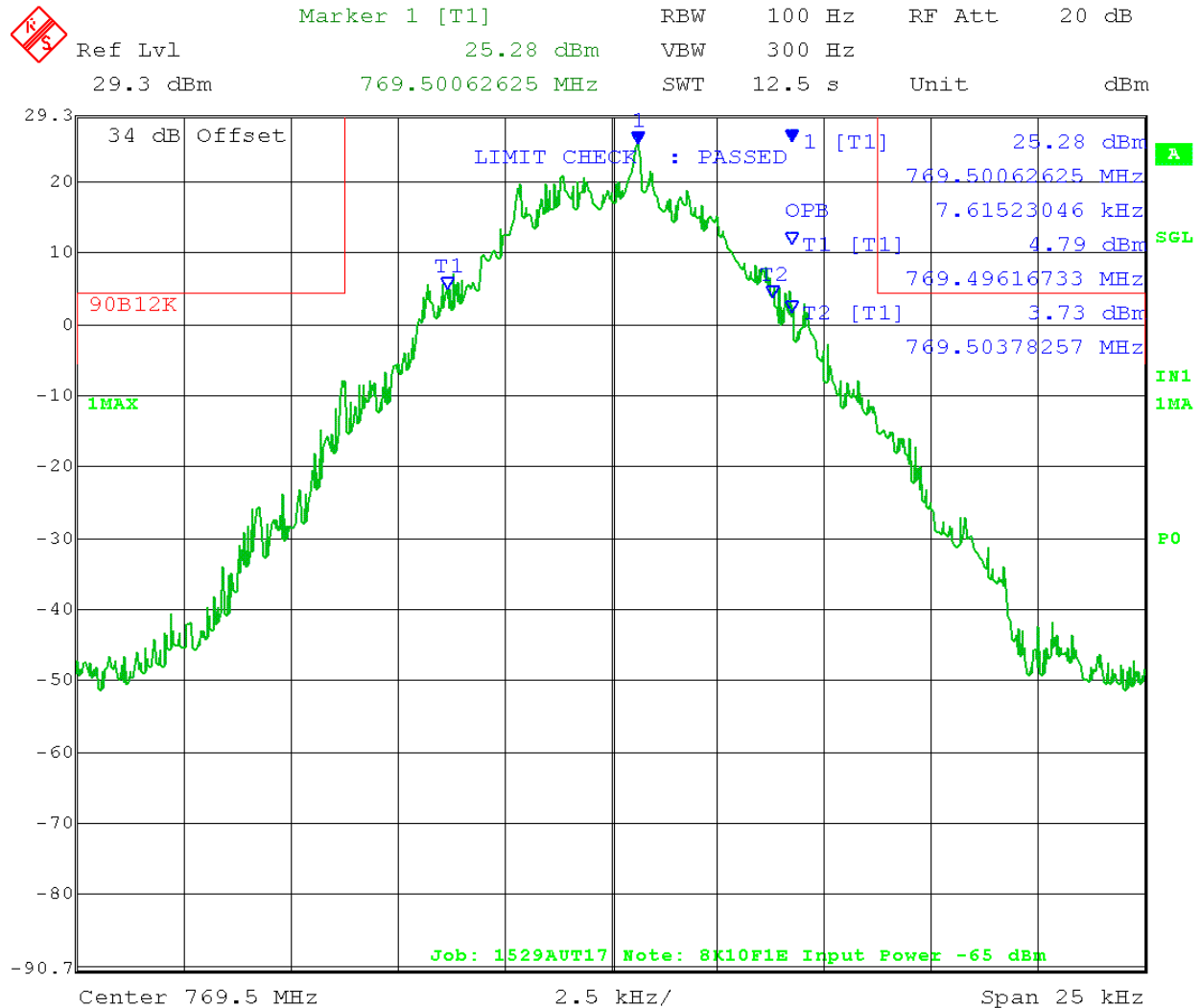
Test Data: 769.5MHz Input for 8K10F1E



Date: 19.OCT.2017 16:12:28

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

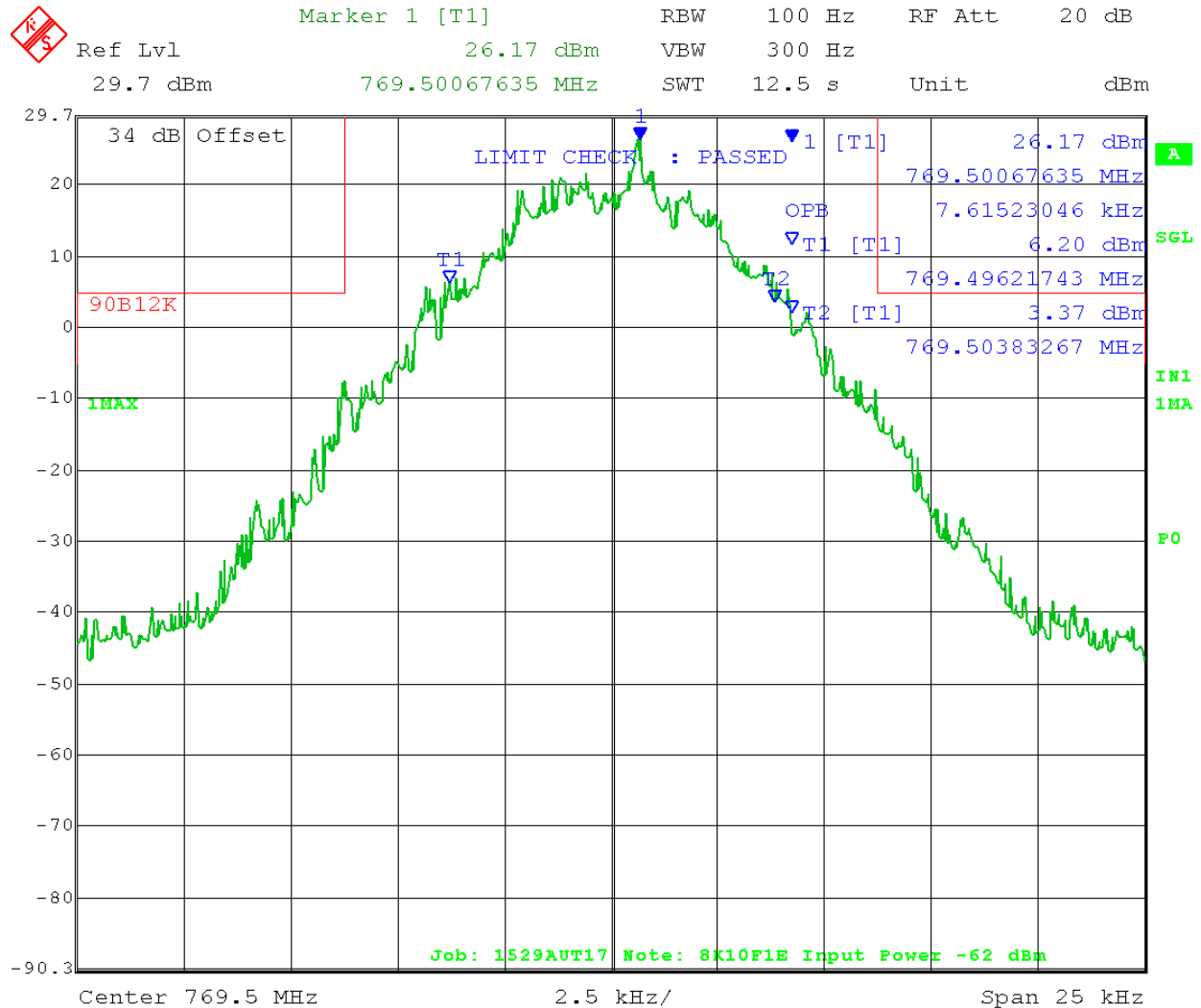
Test Data: 769.5MHz Output without AGC for 8K10F1E



Date: 19.OCT.2017 17:16:04

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

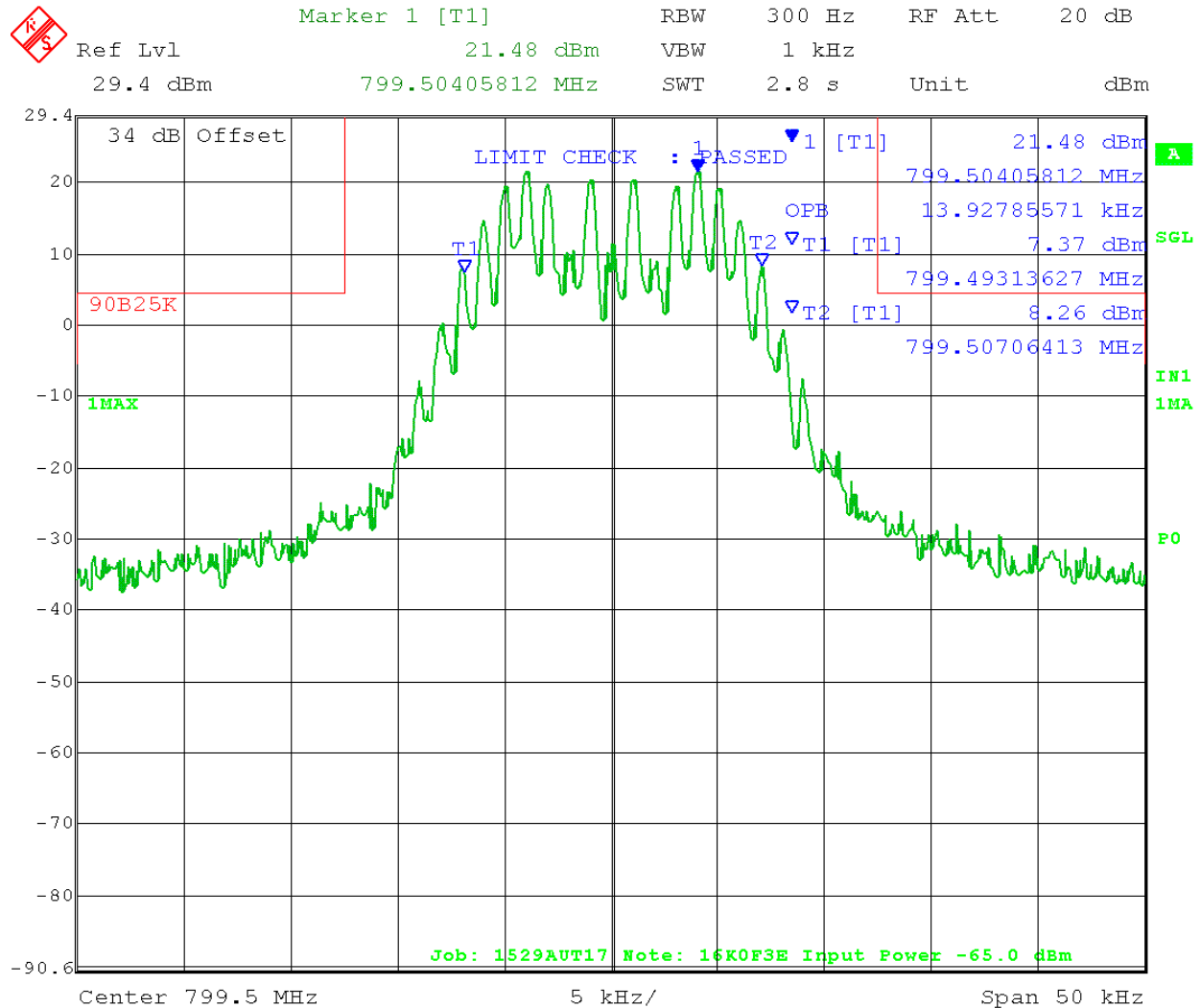
Test Data: 769.5MHz Output with AGC for 8K10F1E



Date: 19.OCT.2017 17:17:24

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

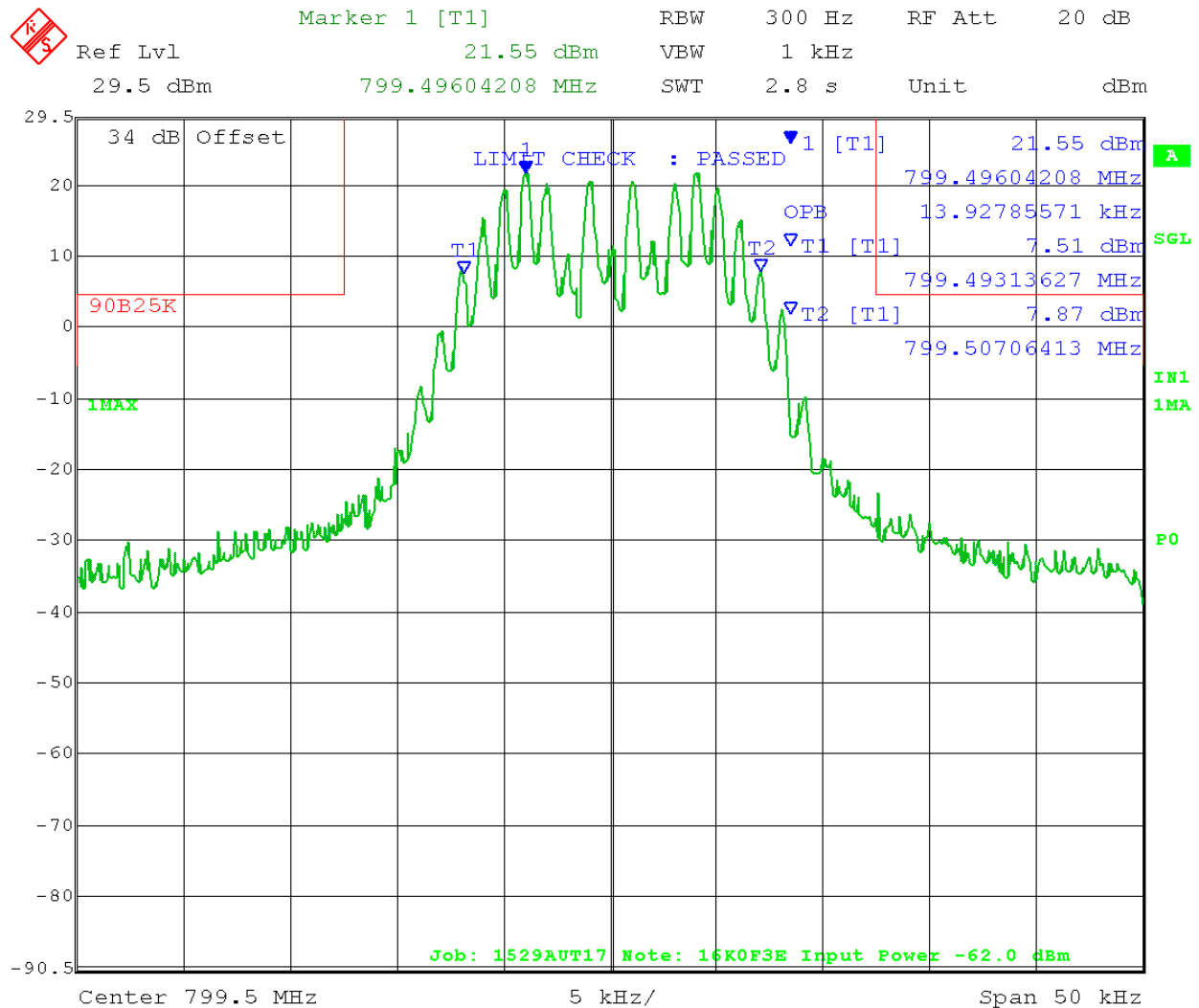
Test Data: 799.5MHz Output without AGC for 16K0F3E



Date: 19.OCT.2017 18:21:07

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

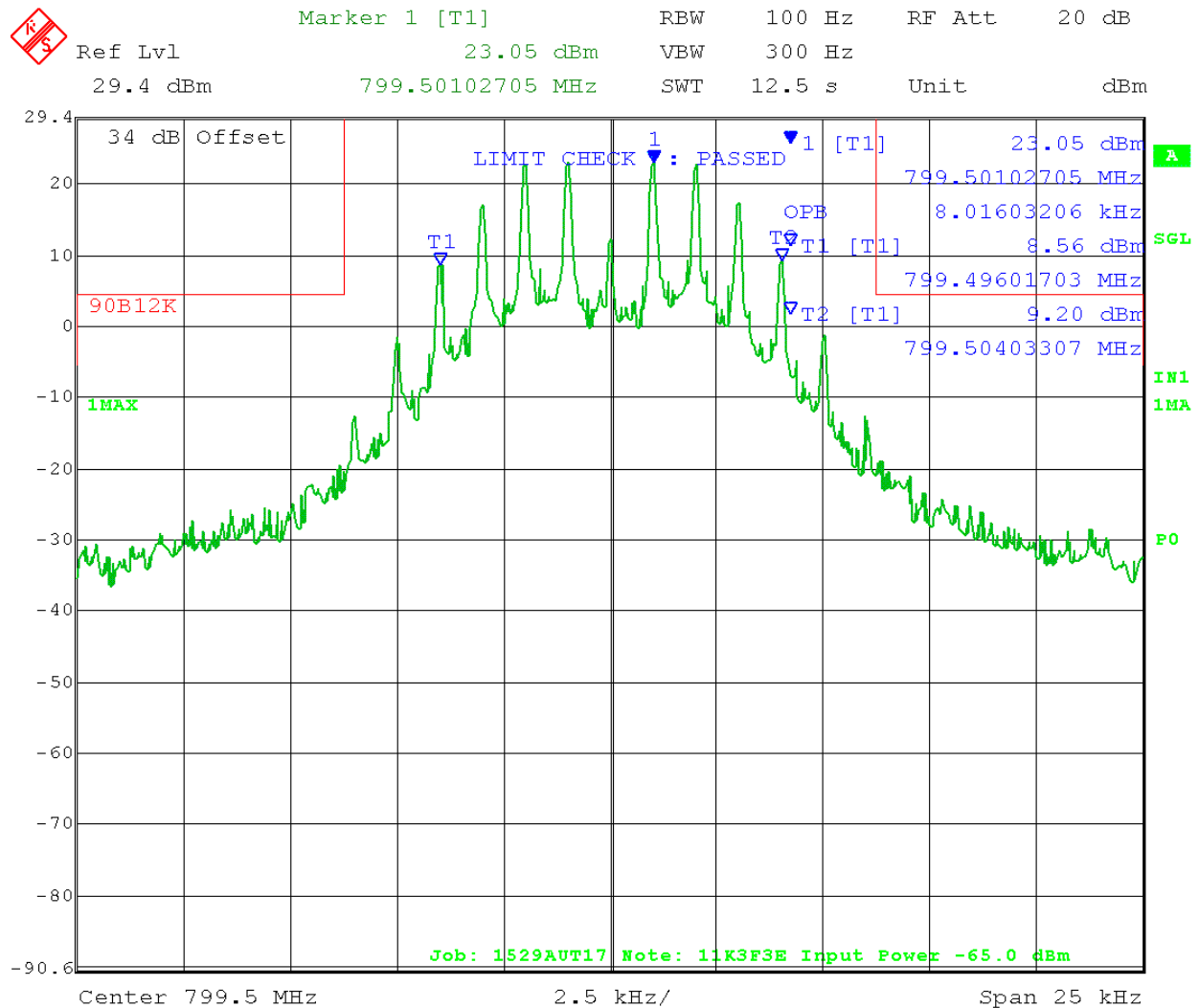
Test Data: 799.5MHz Output with AGC for 16K0F3E



Date: 19.OCT.2017 18:21:38

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

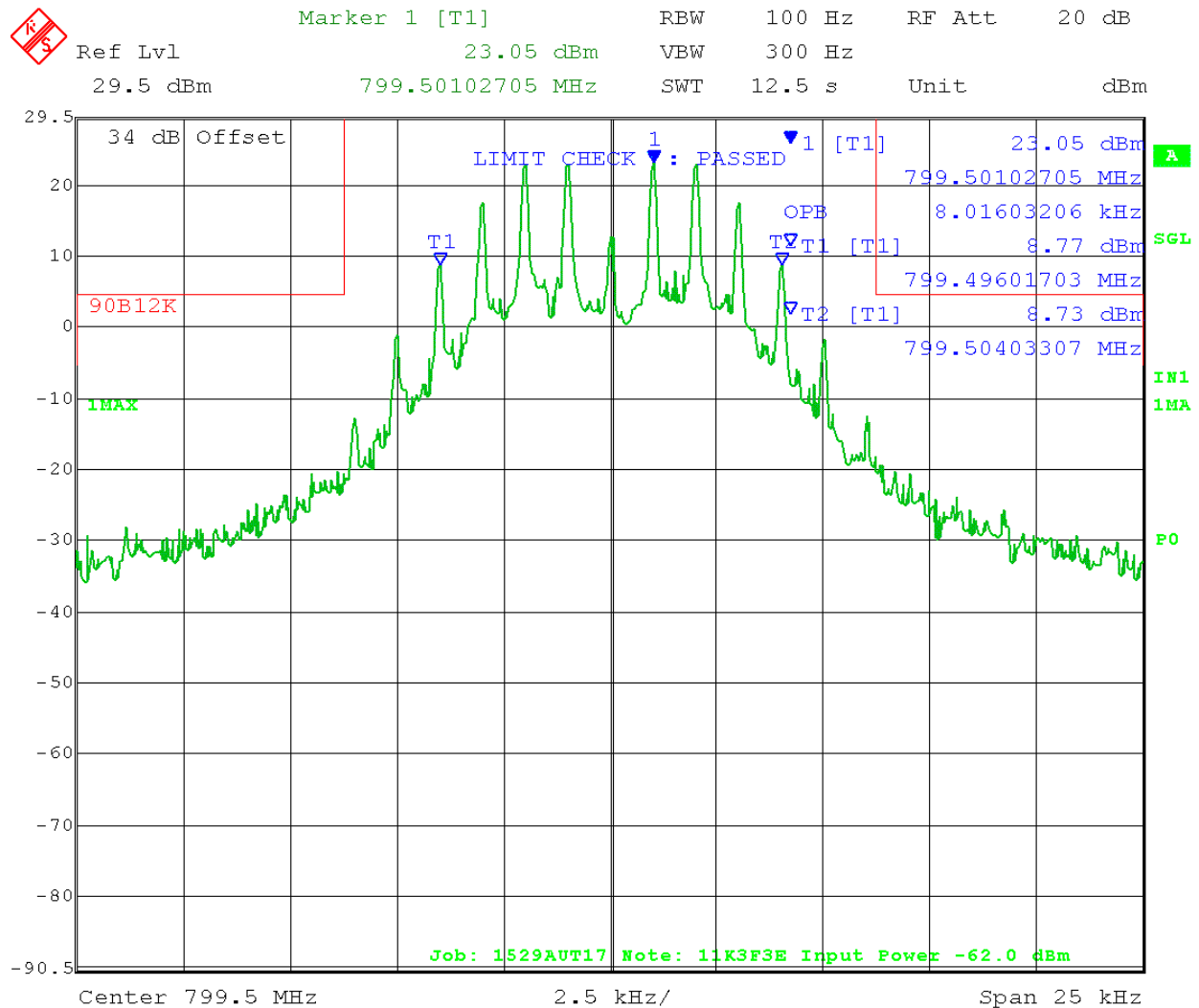
Test Data: 799.5MHz Output without AGC for 11K3F3E



Date: 19.OCT.2017 18:22:59

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

Test Data: 799.5MHz Output with AGC for 11K3F3E



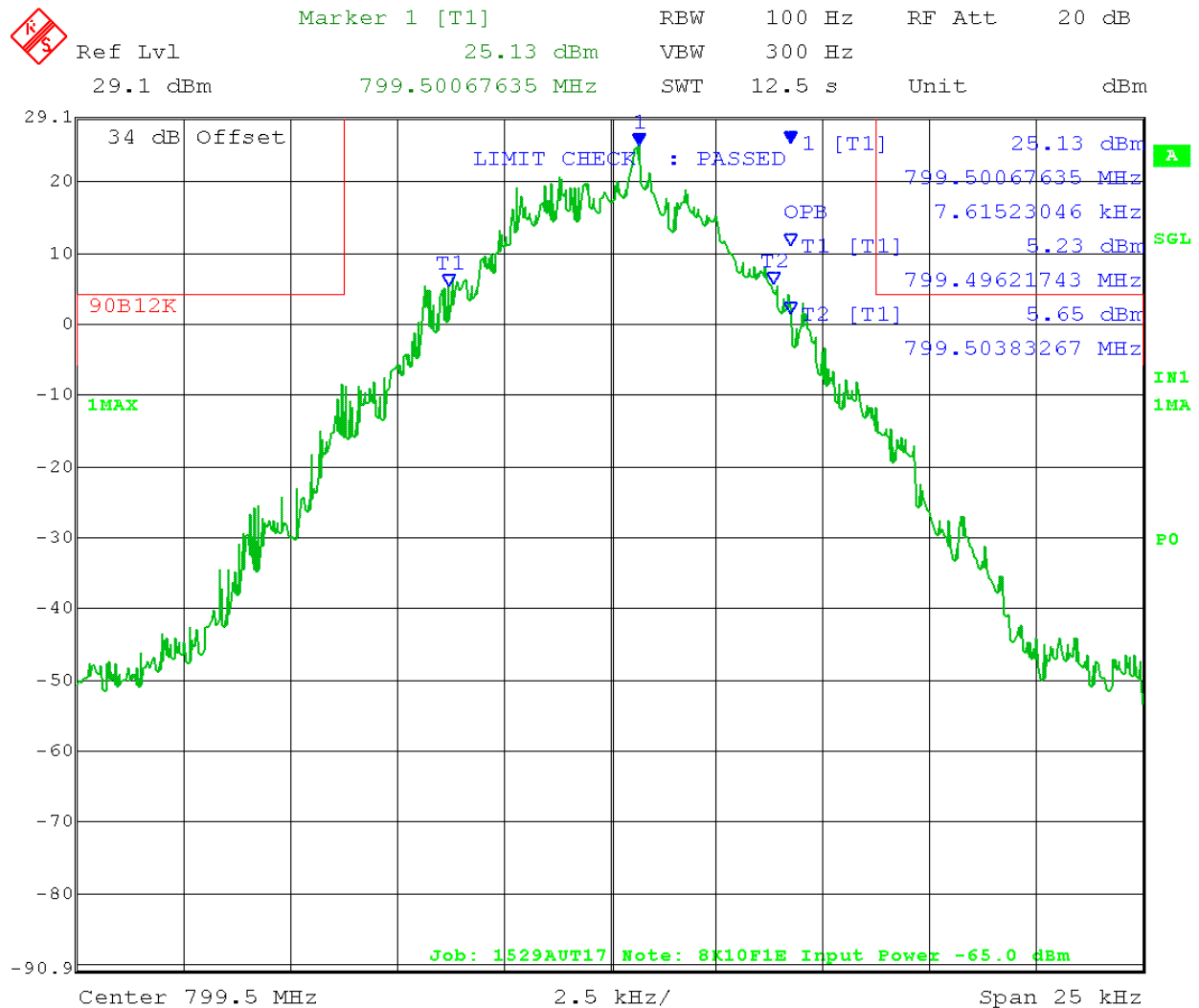
Date: 19.OCT.2017 18:24:20

APPLICANT: RADIO SOLUTIONS, INC.
FCC ID: 2AHVPSB7800M2A
REPORT #: 1529AUT17TestReport_Rev3

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INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

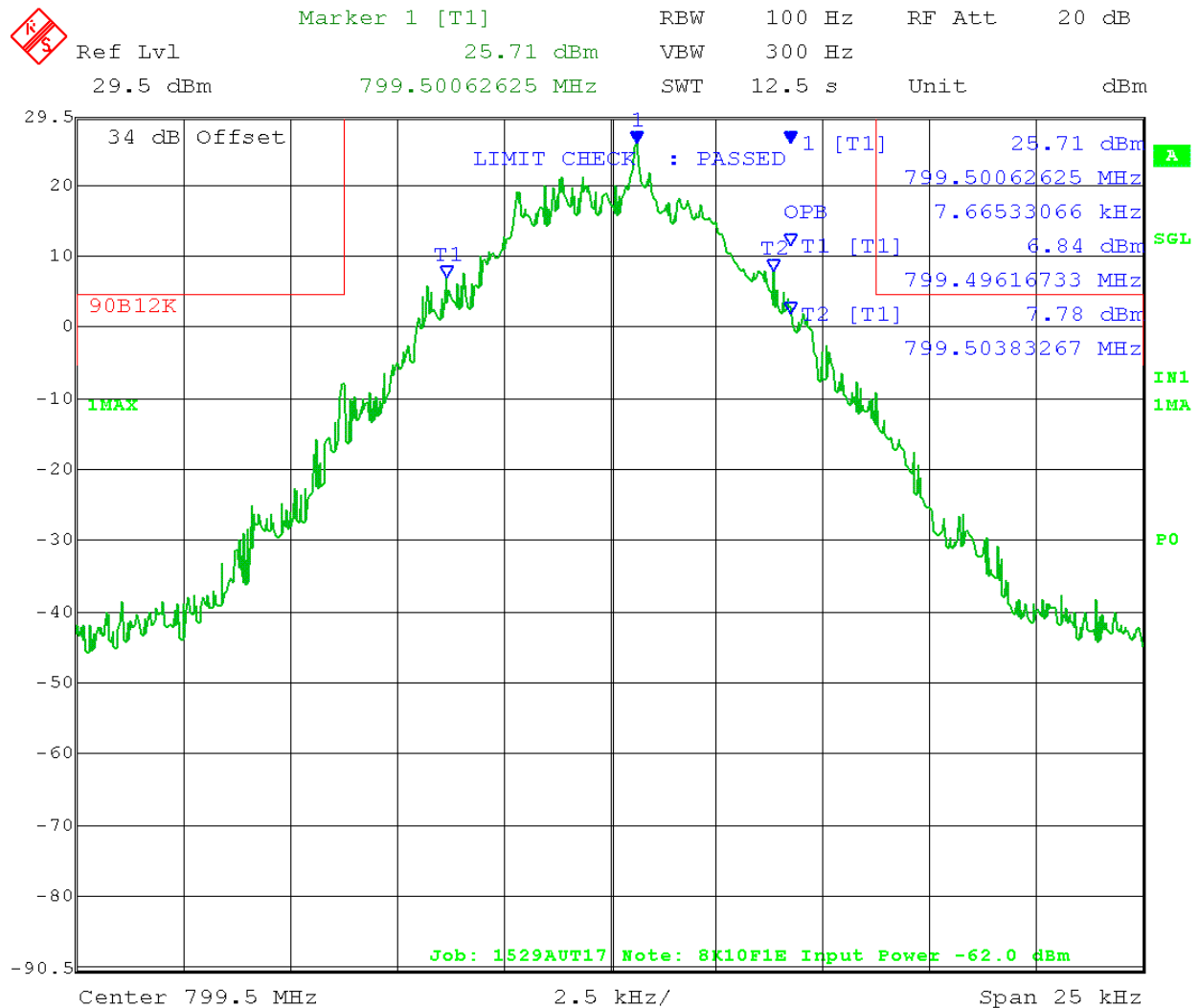
Test Data: 799.5MHz Output without AGC for 8K10F1E



Date: 19.OCT.2017 18:25:41

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

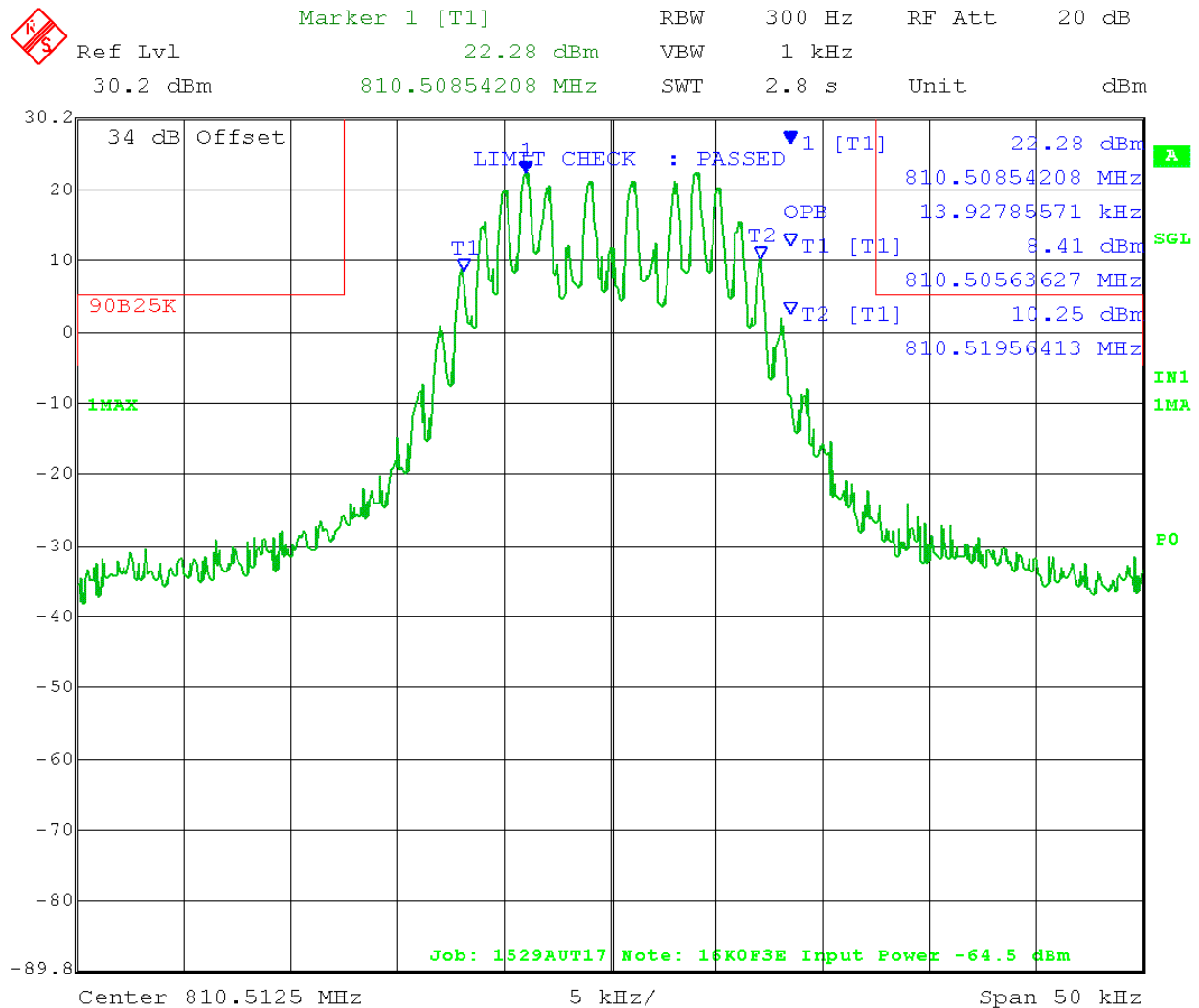
Test Data: 799.5MHz Output with AGC for 8K10F1E



Date: 19.OCT.2017 18:27:02

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

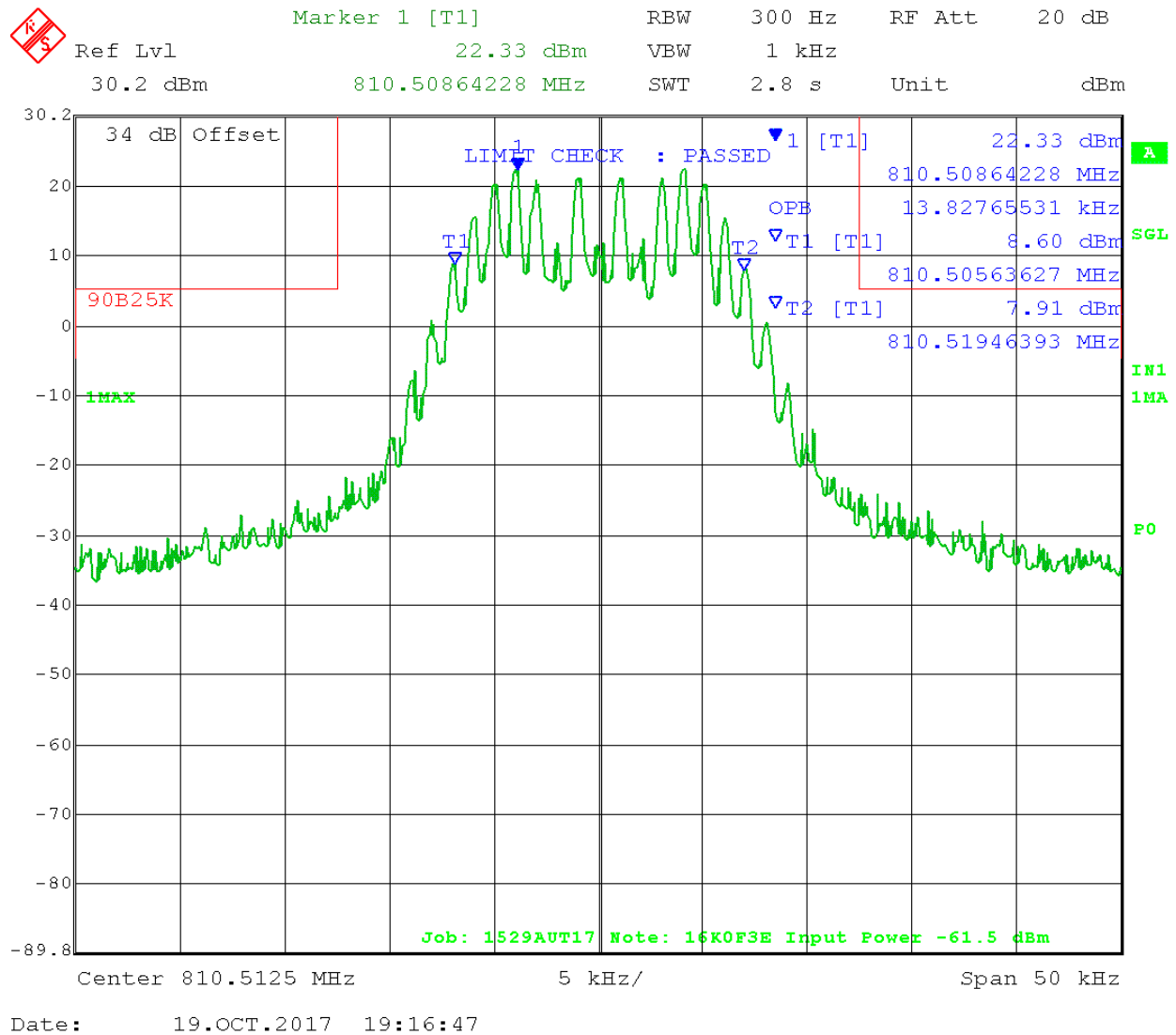
Test Data: 810.5125MHz Output without AGC for 16K0F3E



Date: 19.OCT.2017 19:16:15

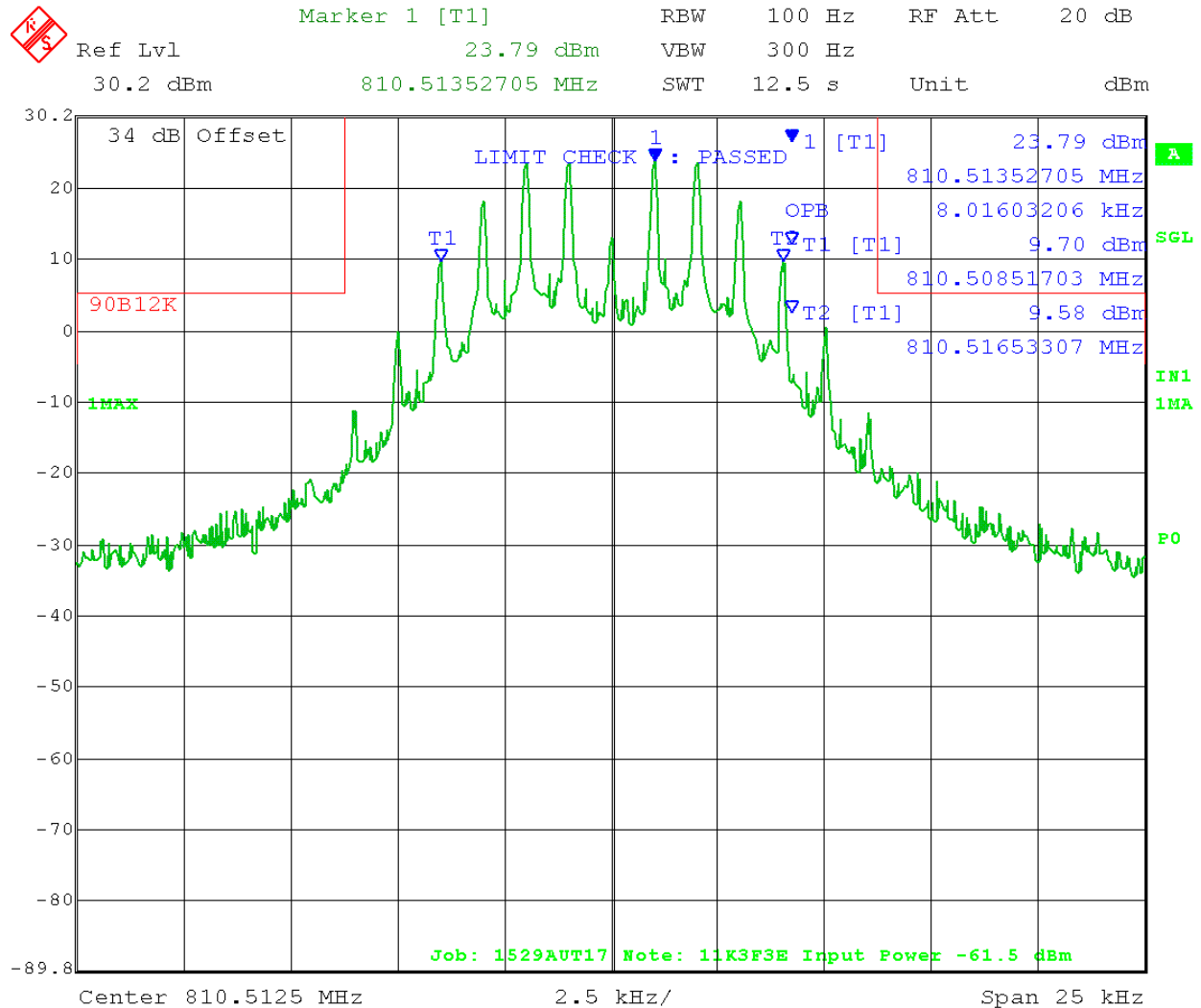
INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

Test Data: 810.5125MHz Output with AGC for 16K0F3E



INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

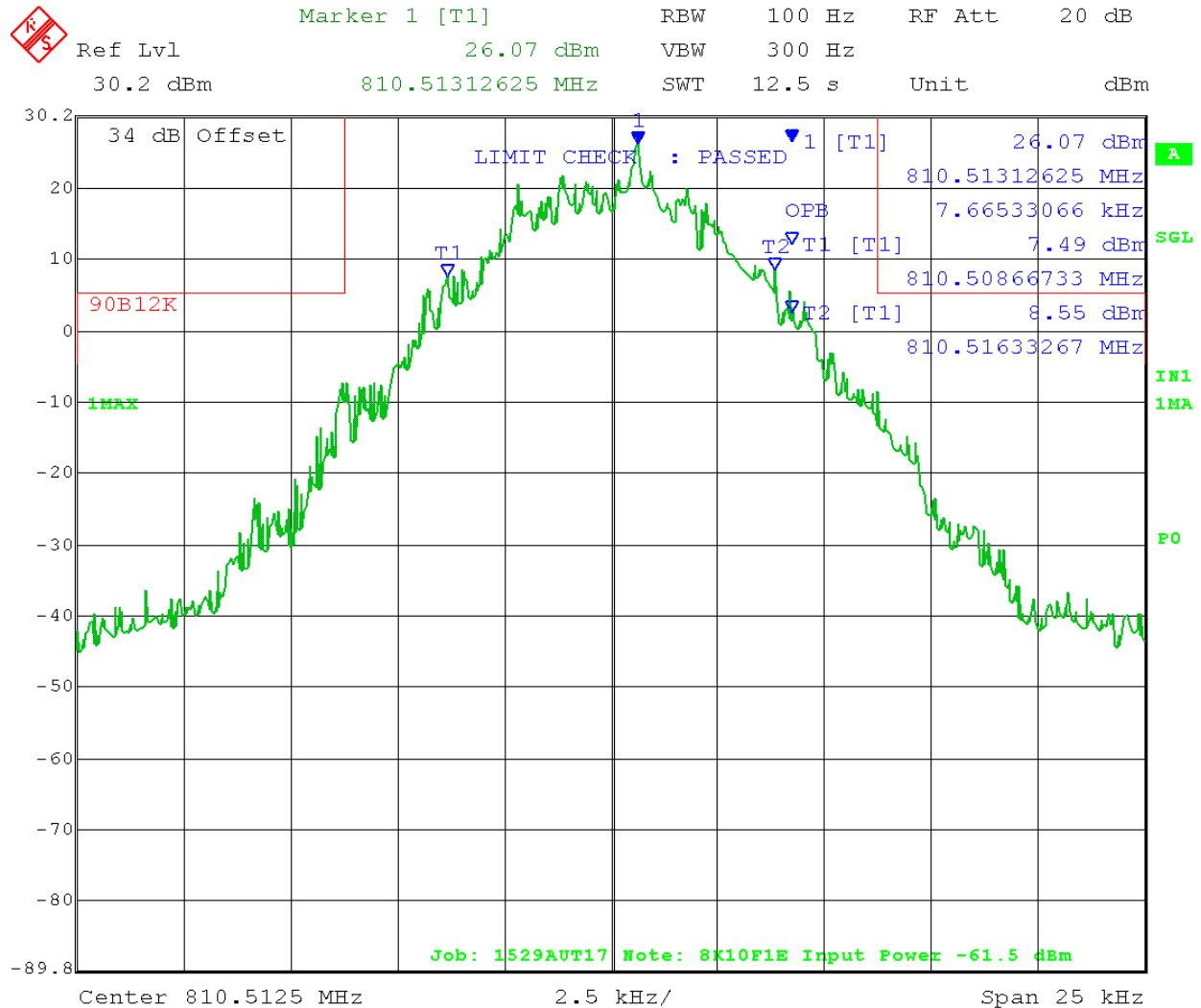
Test Data: 810.5125MHz Output with AGC for 11K3F3E



Date: 19.OCT.2017 19:19:28

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

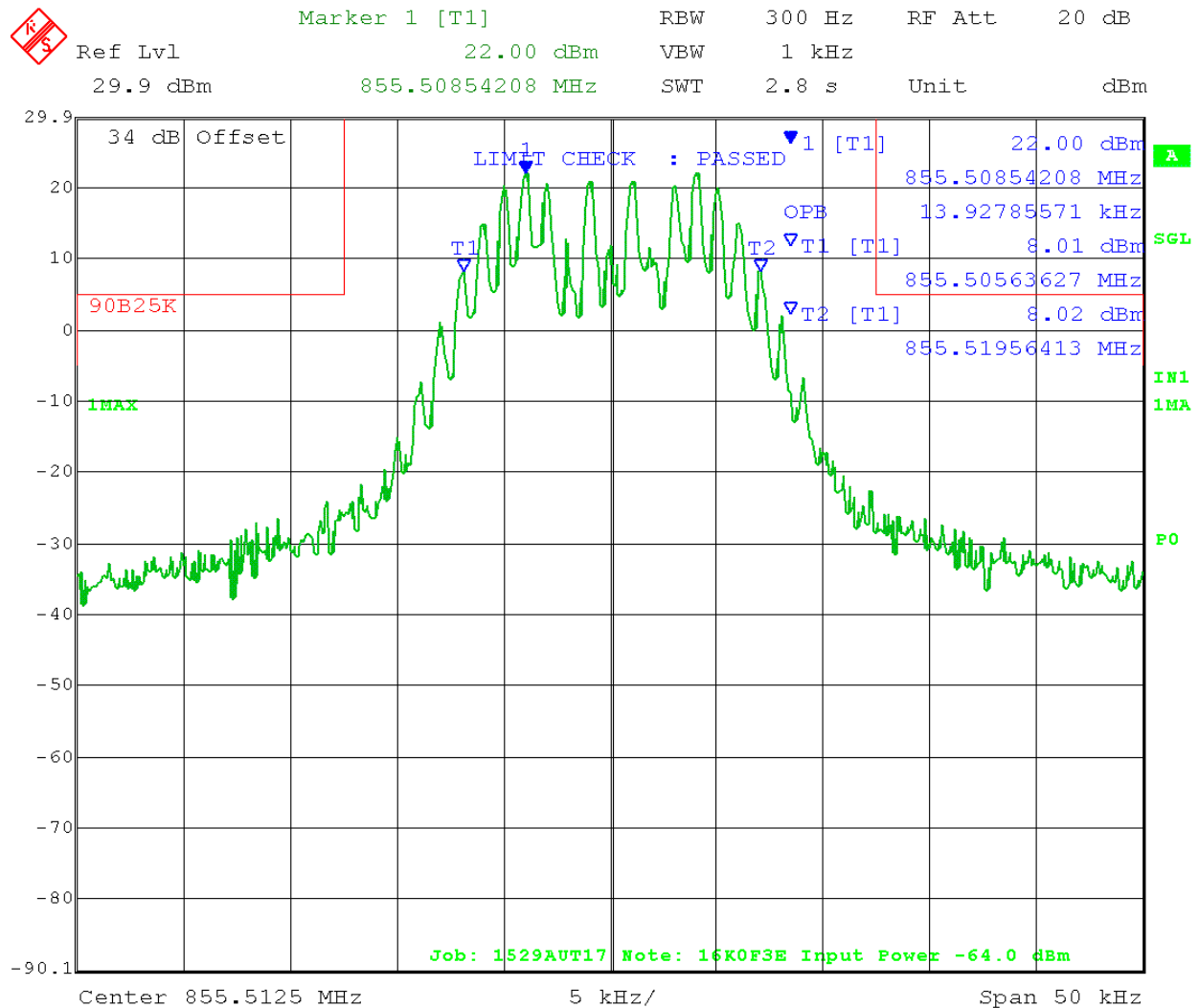
Test Data: 810.5125MHz Output with AGC for 8K10F1E



Date: 19.OCT.2017 19:22:10

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

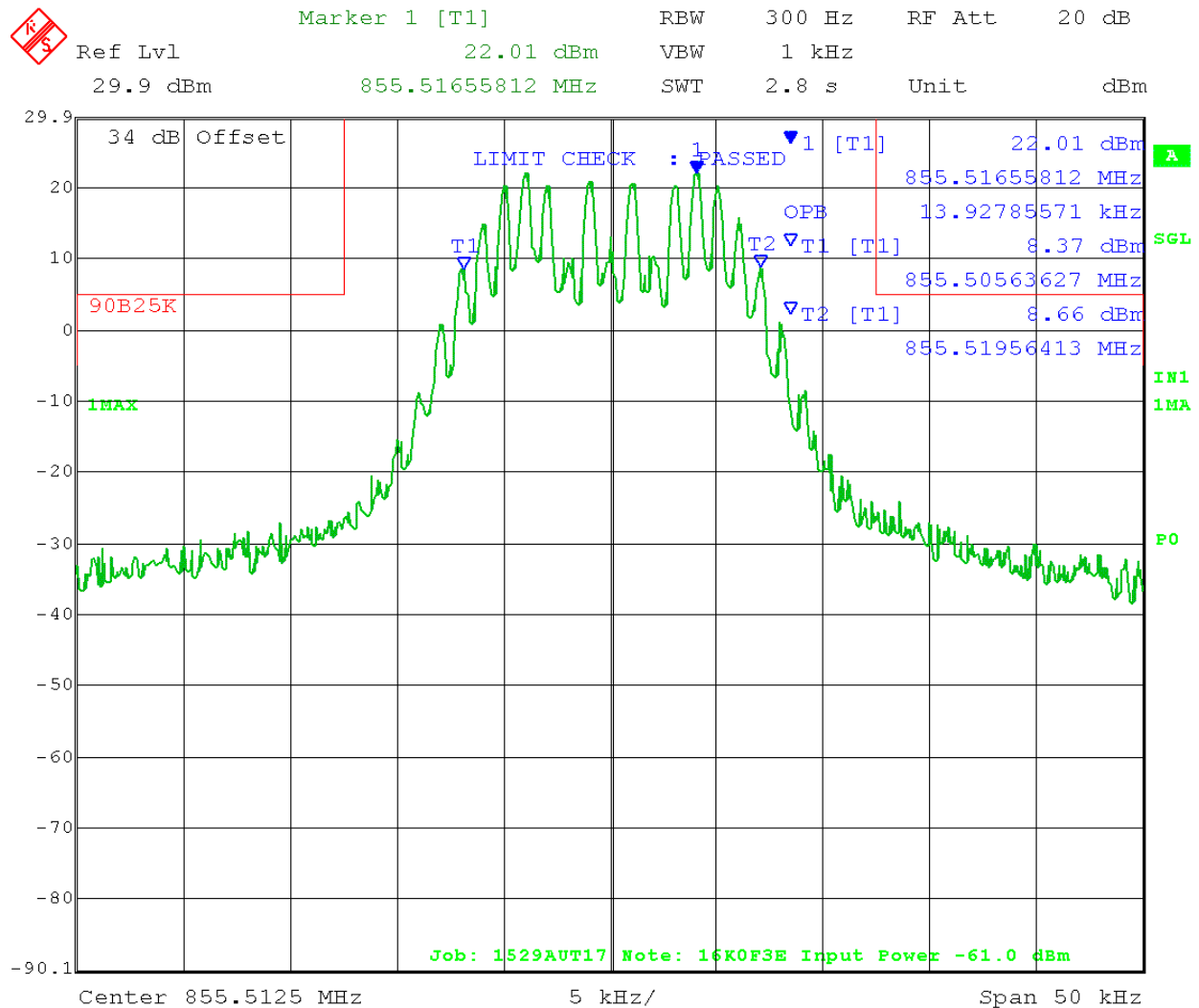
Test Data: 855.5125 MHz Output without AGC for 16K0F3E



Date: 19.OCT.2017 19:53:56

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

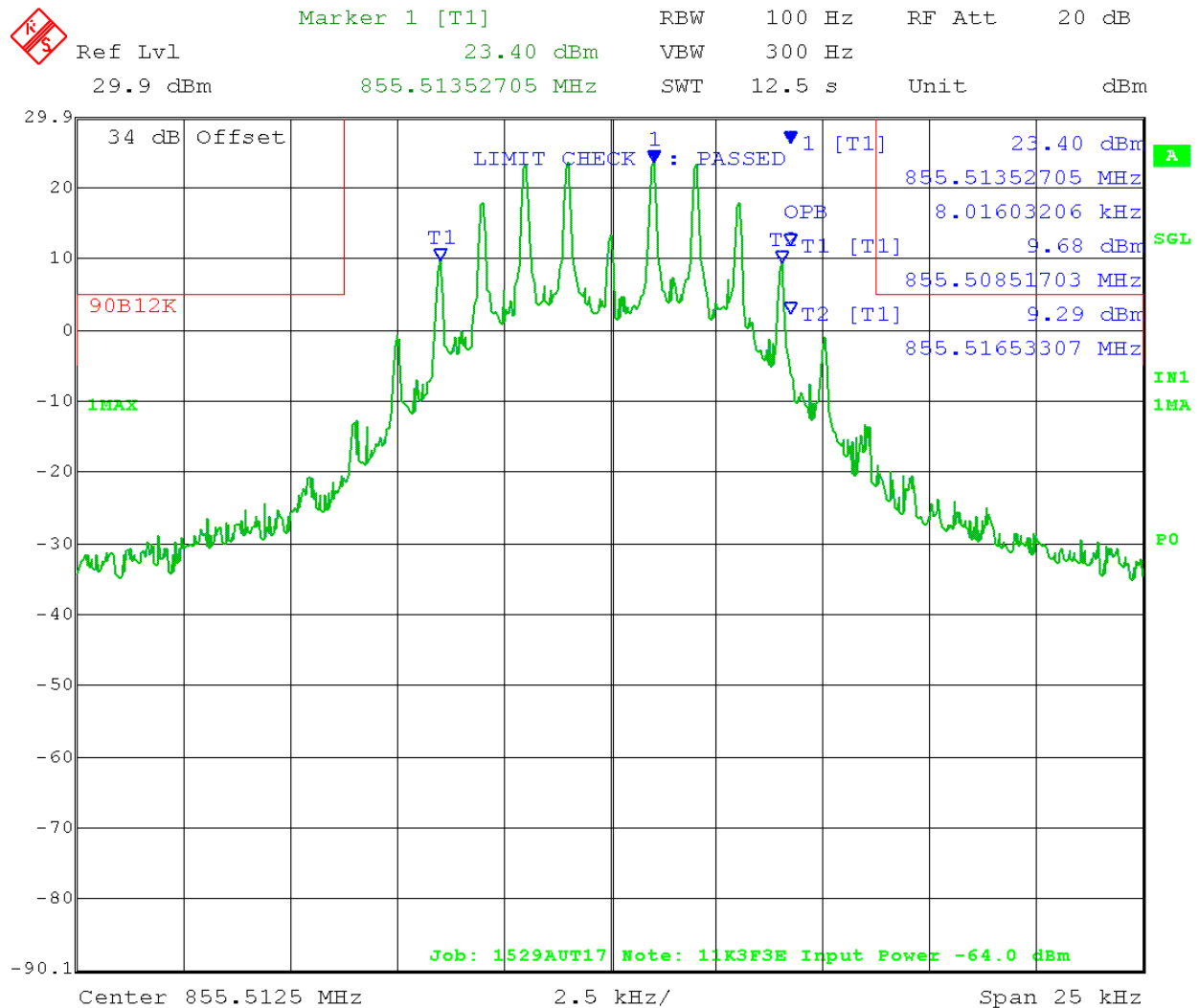
Test Data: 855.5125 MHz Output with AGC for 16K0F3E



Date: 19.OCT.2017 19:54:26

INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

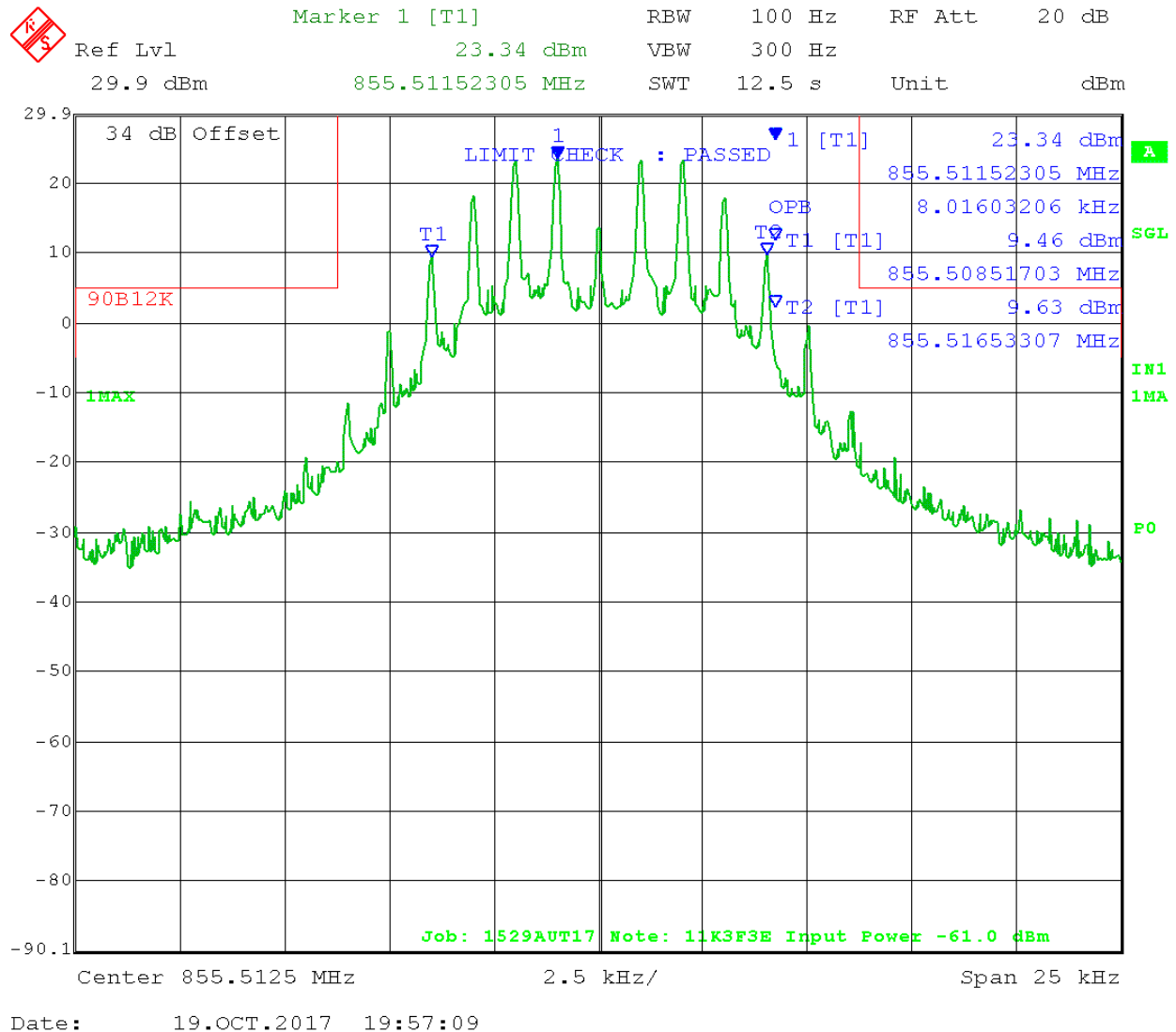
Test Data: 855.5125 MHz Output without AGC for 11K3F3E



Date: 19.OCT.2017 19:55:48

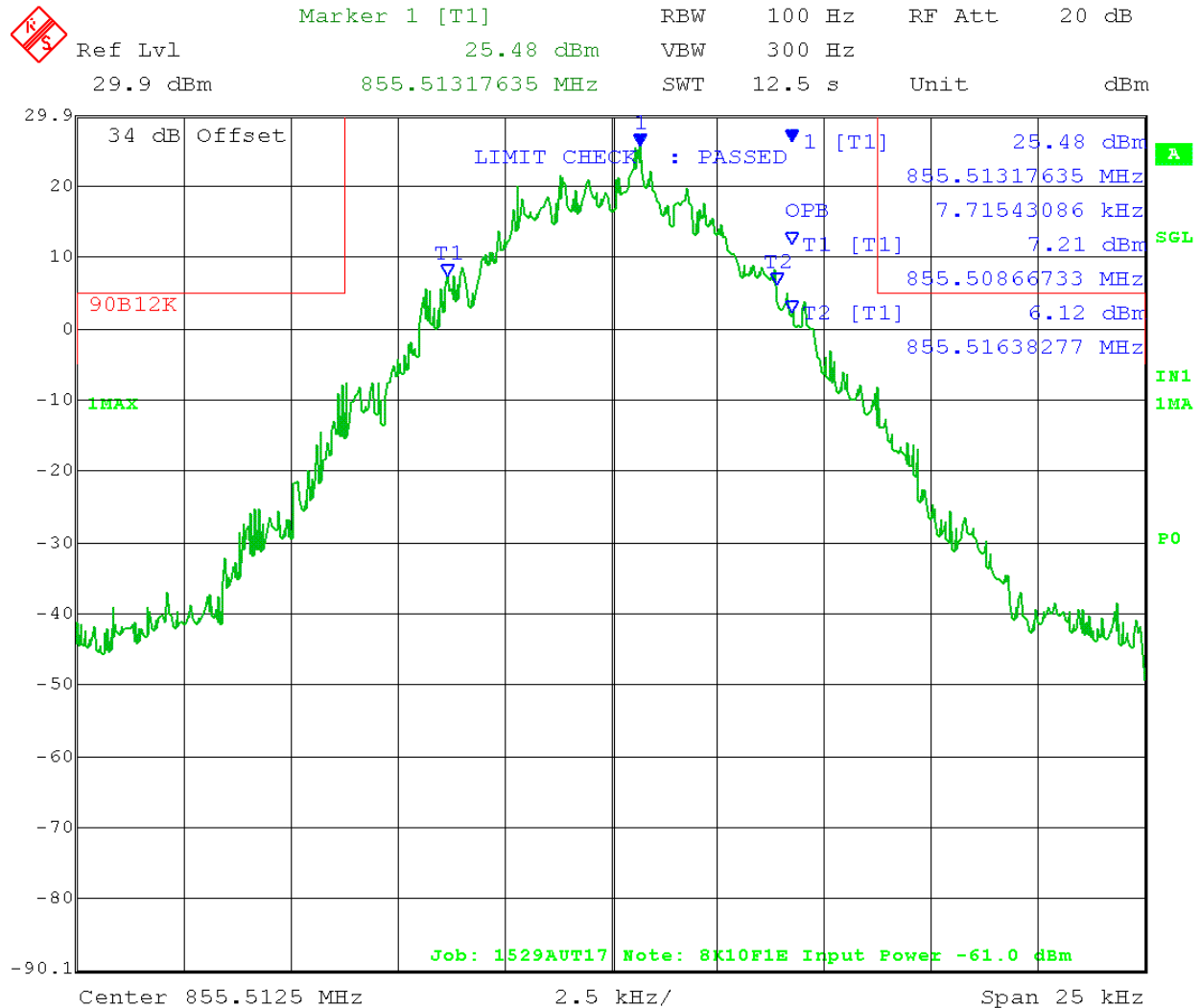
INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

Test Data: 855.5125 MHz Output with AGC for 11K3F3E



INPUT-VERSUS-OUTPUT SIGNAL COMPARISON §4.4

Test Data: 855.5125 MHz Output with AGC for 8K10F1E



Date: 19.OCT.2017 19:59:52

NOISE FIGURE §4.6

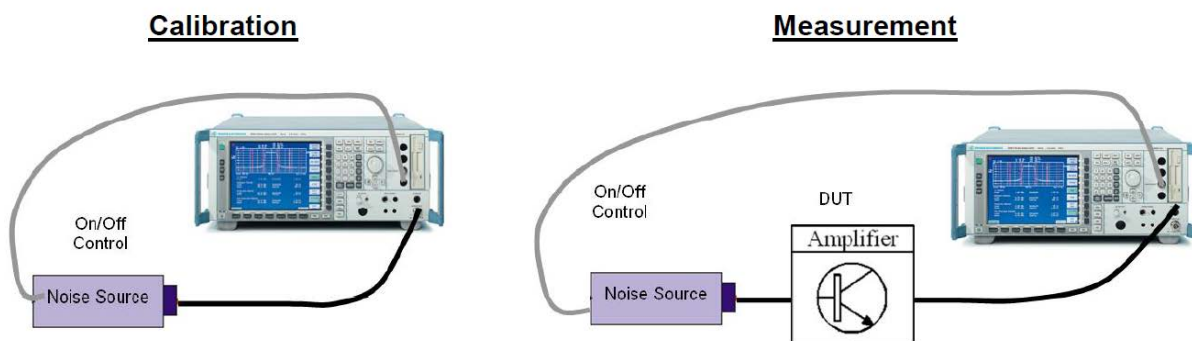
Rule Part No.: 47CFR90.219(e)(2)
KDB 935210-D05 v01r01 §4.6

Requirements: 9 dB

Procedure: KDB935210 Measurement Guidance for Industrial Boosters
§ 4.6 Noise Figure Measurements

1MA178_2e R&S Application Note the Y Factor Technique Noise Figure
§ 2 Background Theory and Equations
§ 3 Detailed Measurement Steps

Setup Diagram:



Test Data: Noise Figure Measurement Table

Ambient Temperature (°C)	26.00
Ambient Temperature (°K)	299.15
Noise Source ENR (dB)	15.04
Noise Source ENR	31.92
N1 (dB)	-14.92
N2 (dB)	-3.20
Y(dB)	11.72
Y	14.86
Noise Factor	2.38
Noise Figure (dB)	3.76

Results Meet Requirements

APPLICANT: RADIO SOLUTIONS, INC.
FCC ID: 2AHVPSB7800M2A
REPORT #: 1529AUT17TestReport_Rev3

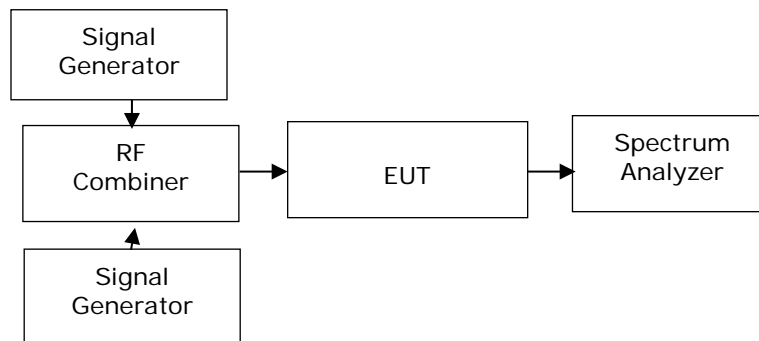
OUT OF BAND / OUT OF BLOCK EMISSIONS (intermodulation) §4.7

Rule Part No.: 47CFR90.210
KDB 935210-D05 v01r01 §4.7.2

Requirements: -13 dBm

Procedure: KDB935210 Measurement Guidance for Industrial Boosters
§ 4.7.1 General
§ 4.7.2 Out of Band/ Out of block emissions conducted measurements

Setup Diagram:

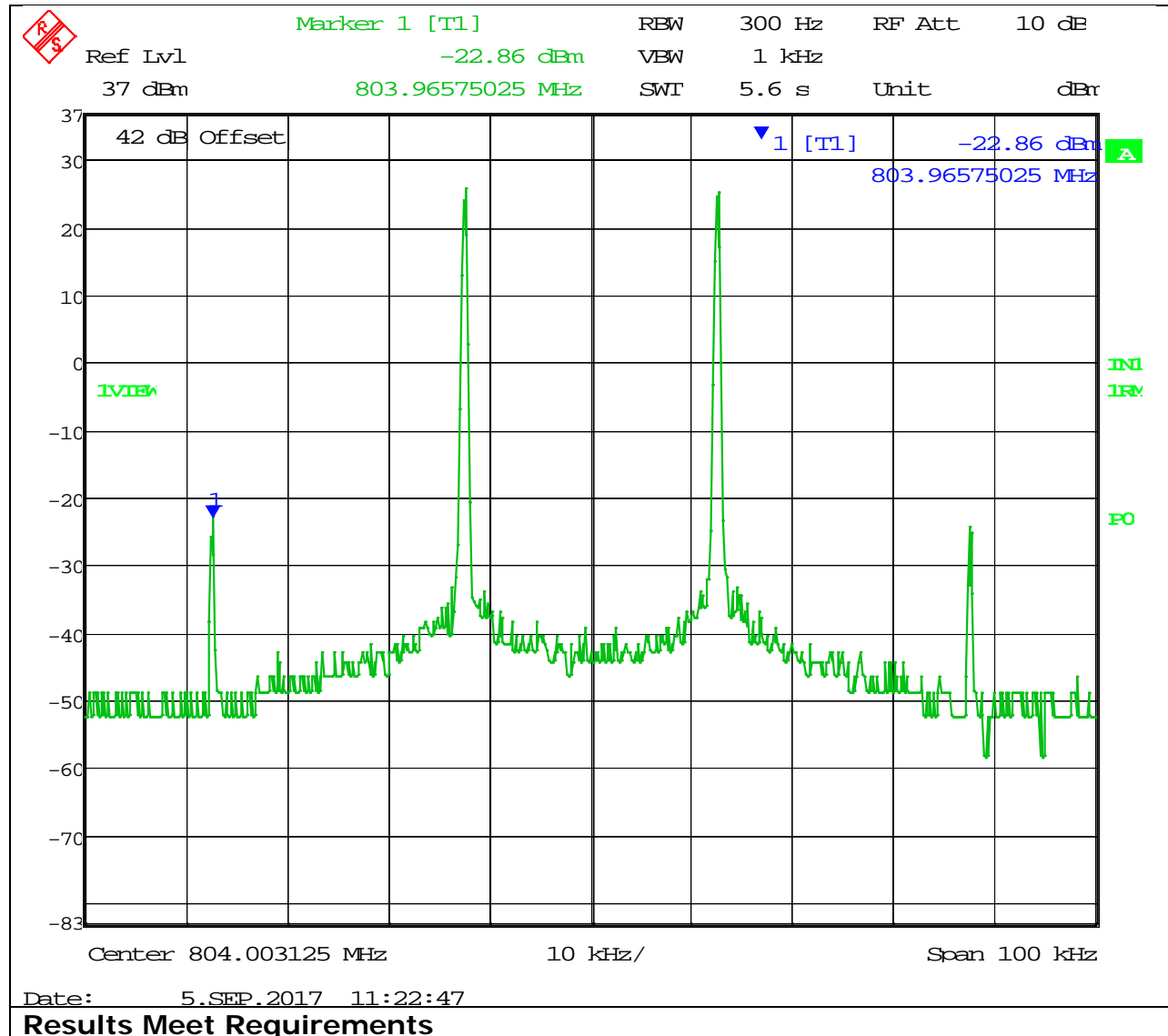


Test Data: Measurement Table

CH Spacing (KHz)	f0 (MHz)	Input Level (dBm)	Low Freq (MHz)	High Freq (MHz)	Read Level (dBm)	Limit (dBm)	Margin (dB)
12.50	804.003125	-64.00	803.990625	804.015625	-22.86	-13.00	9.86
12.50	804.003125	-61.00	803.990625	804.015625	-22.31	-13.00	9.31
25.00	804.003125	-64.00	803.978125	804.028125	-23.92	-13.00	10.92
25.00	804.003125	-61.00	803.978125	804.028125	-23.76	-13.00	10.76

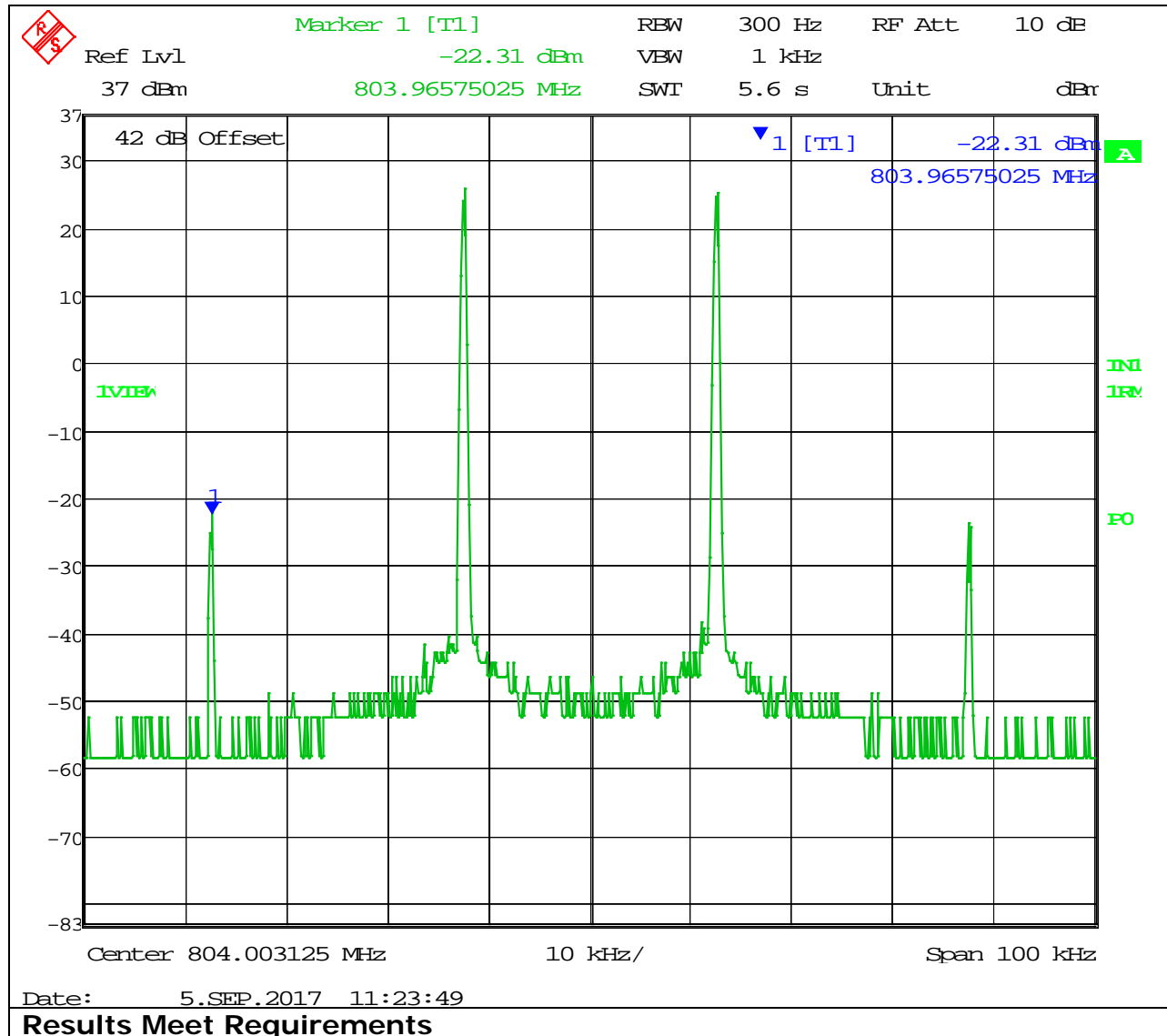
OUT-OF-BAND/OUT-OF-BLOCK EMISSIONS(INCLUDING INTERMODULATION) §4.7.2

Test Data: 12.5 kHz Intermodulation without AGC



Out-of-band/out-of-block Emissions(including intermodulation) §4.7.2

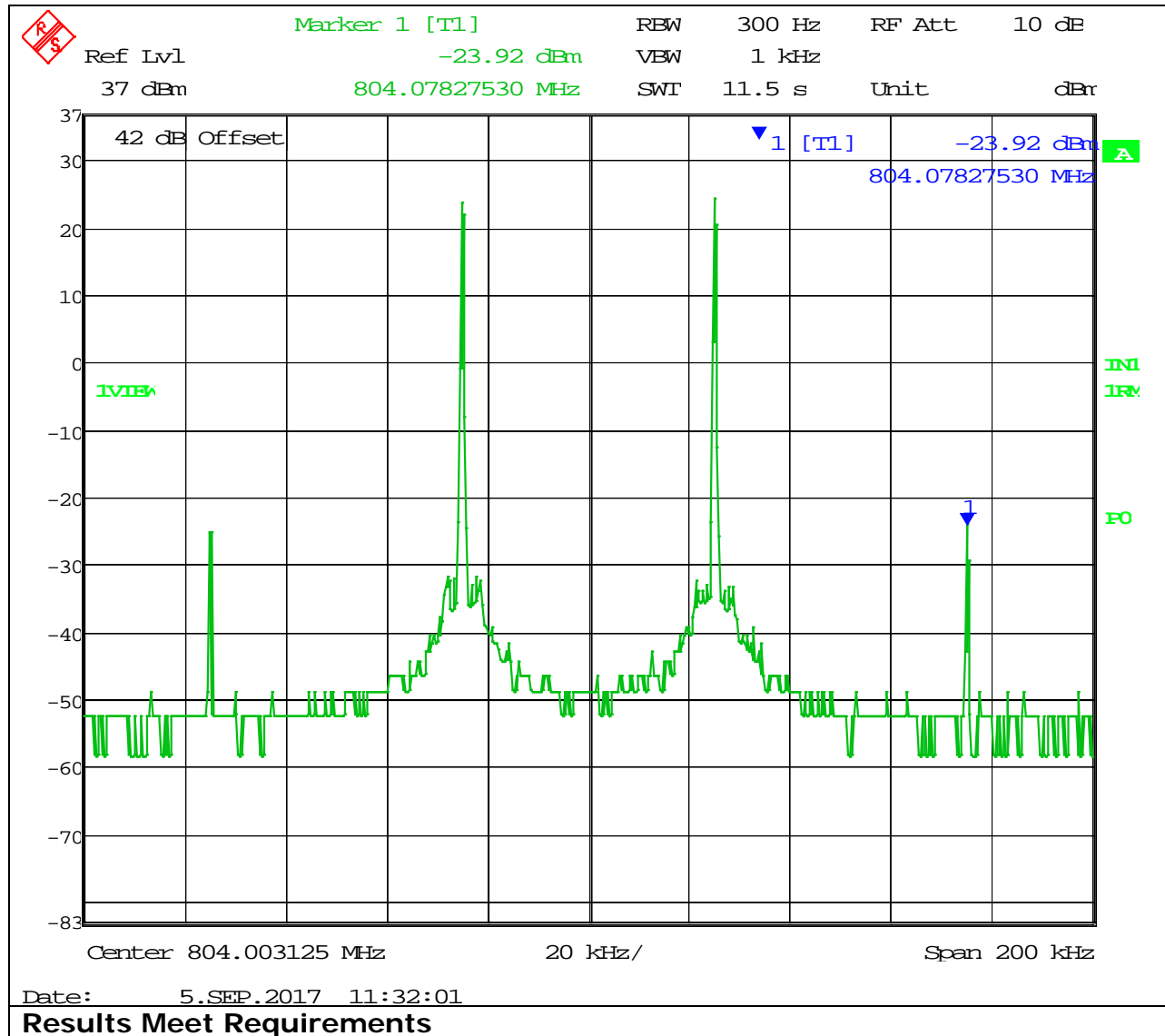
Test Data: 12.5 kHz Intermodulation with AGC



Out-of-band/out-of-block Emissions(including intermodulation)

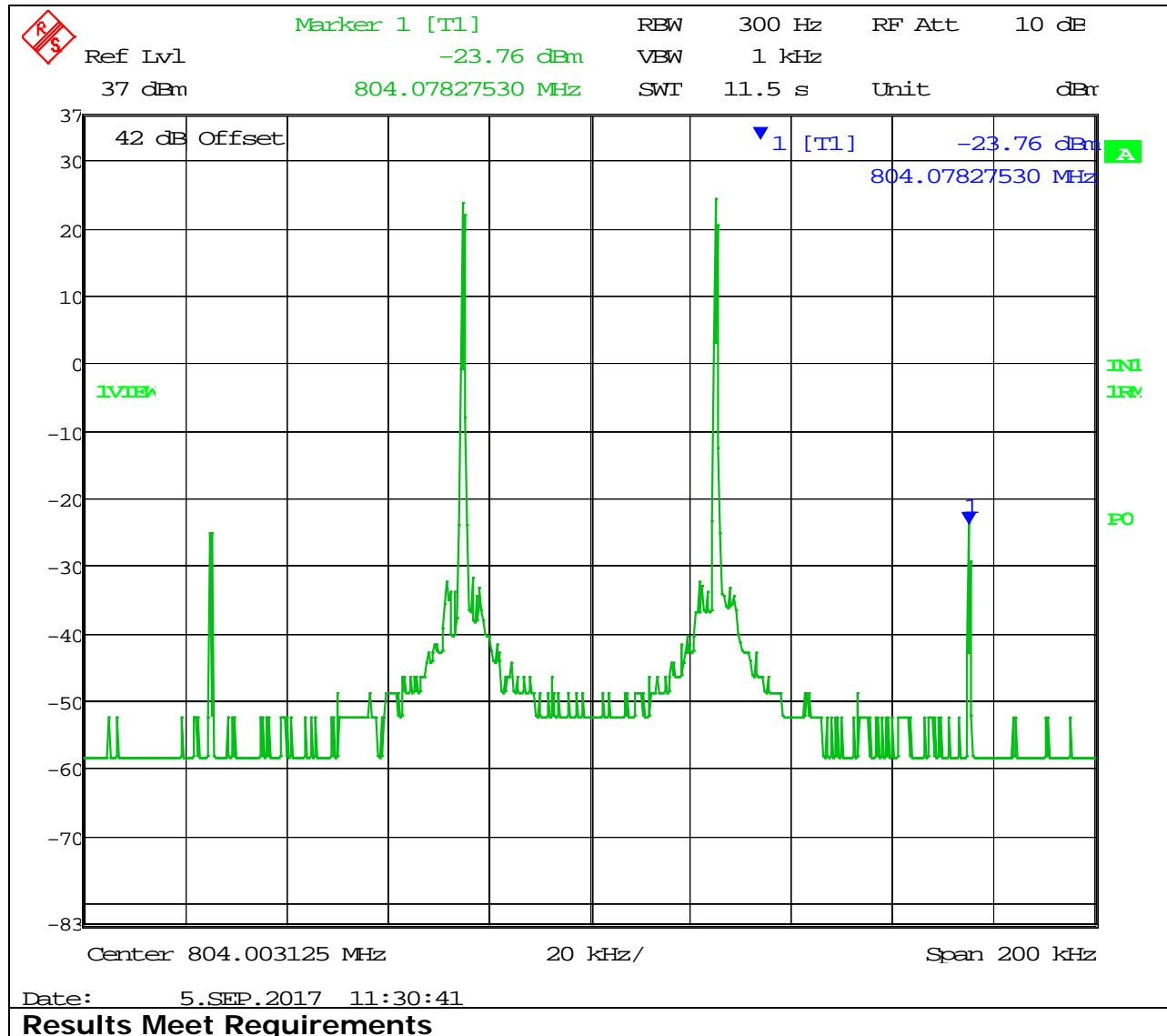
§4.7.2

Test Data: 25 kHz Intermodulation without AGC



Out-of-band/out-of-block Emissions(including intermodulation) §4.7.2

Test Data: 25 kHz Intermodulation with AGC



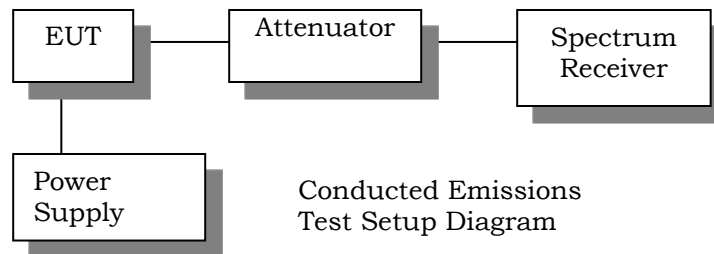
ANTENNA CONDUCTED EMISSIONS §4.7

Rule Part No.: 47CFR90.219(e)(3)
KDB 935210-D05 v01r01 §4.7.3

Requirements: -13 dBm in any 100 kHz bandwidth

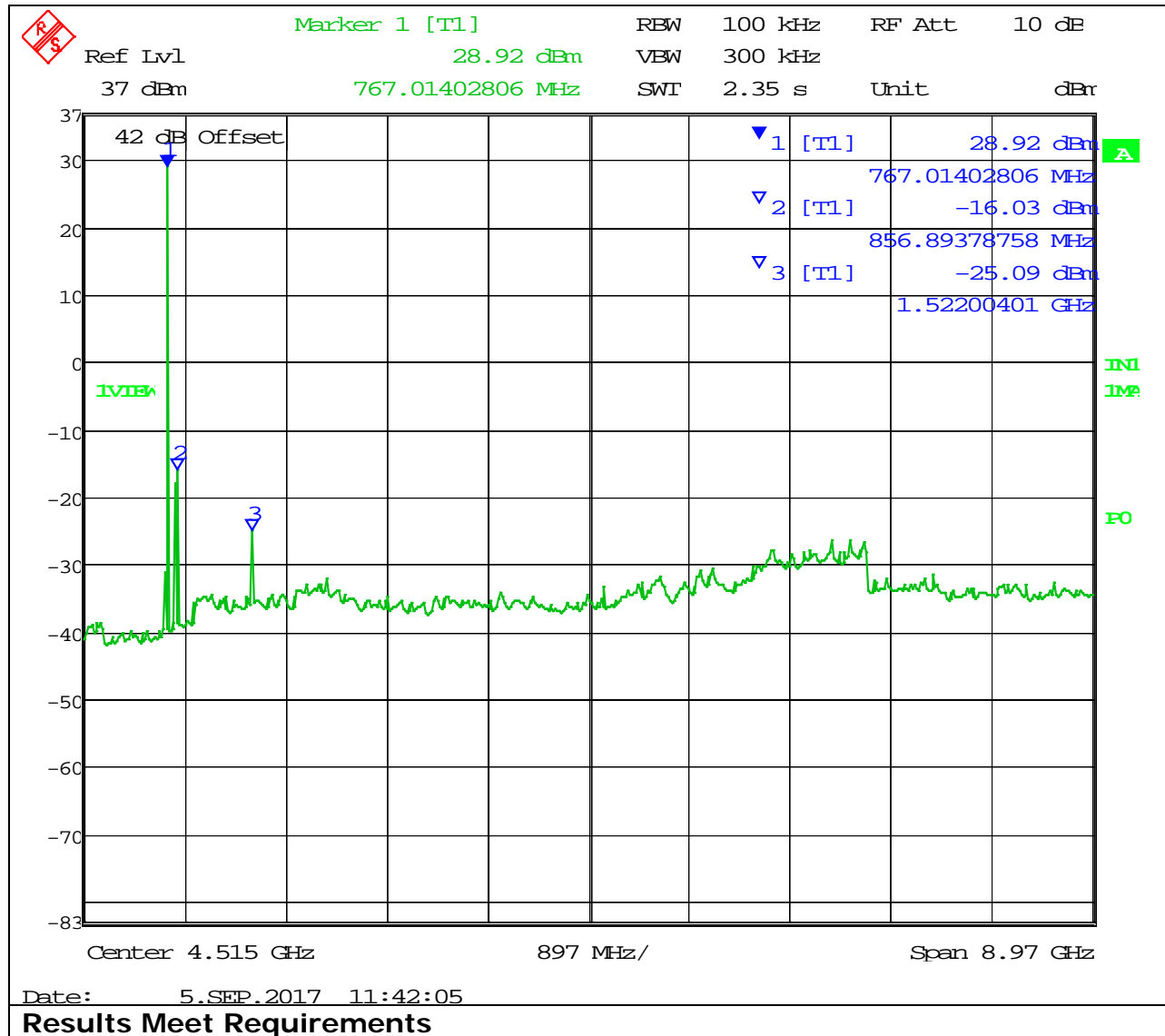
Procedure: KDB935210 Measurement Guidance for Industrial Boosters
§ 4.7.1 General
§ 4.7.3 EUT Spurious emissions conducted measurements

Test Setup Diagram:



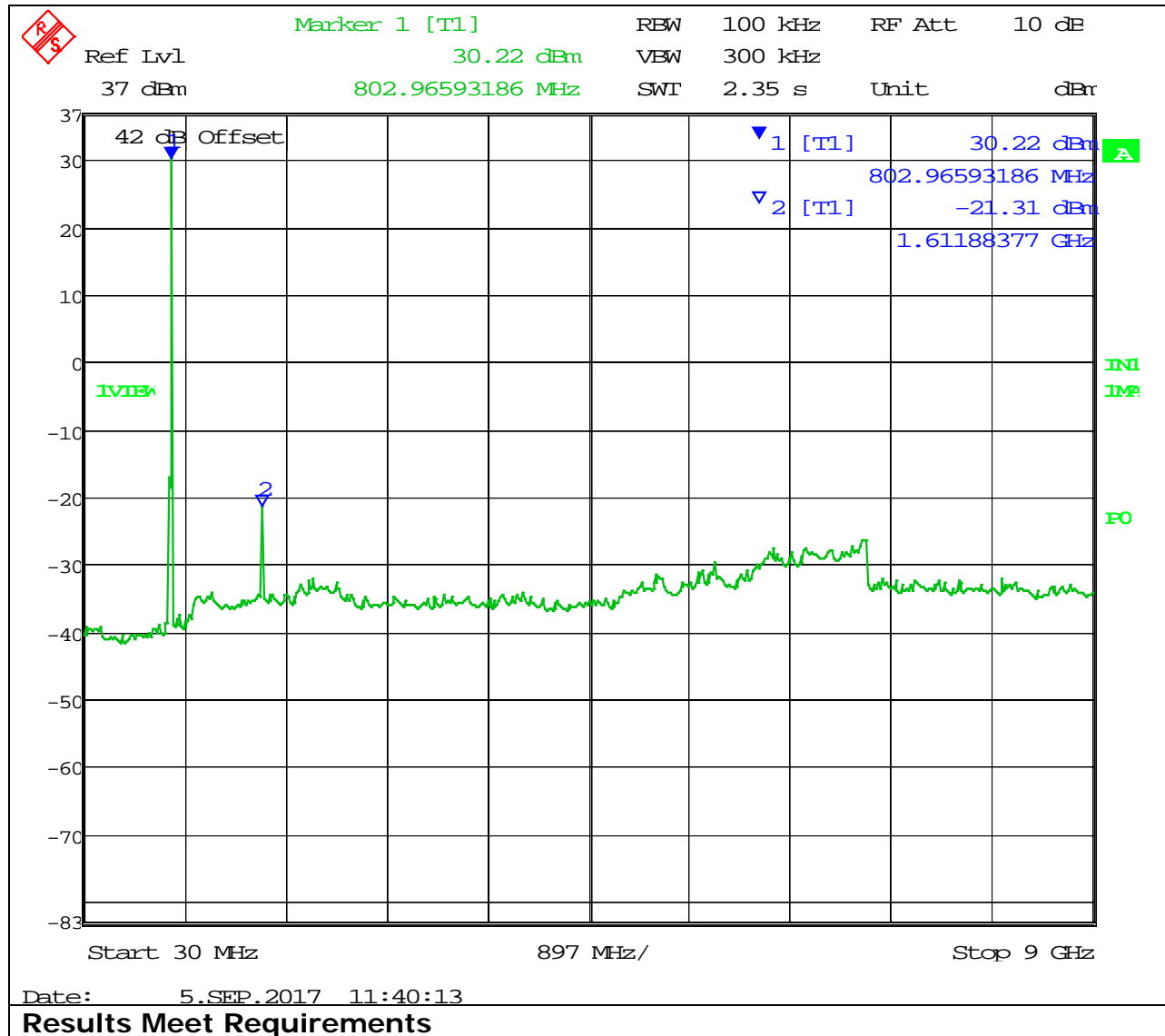
ANTENNA CONDUCTED EMISSIONS §4.7

Test Data: 763 – 775MHz Low End of Band



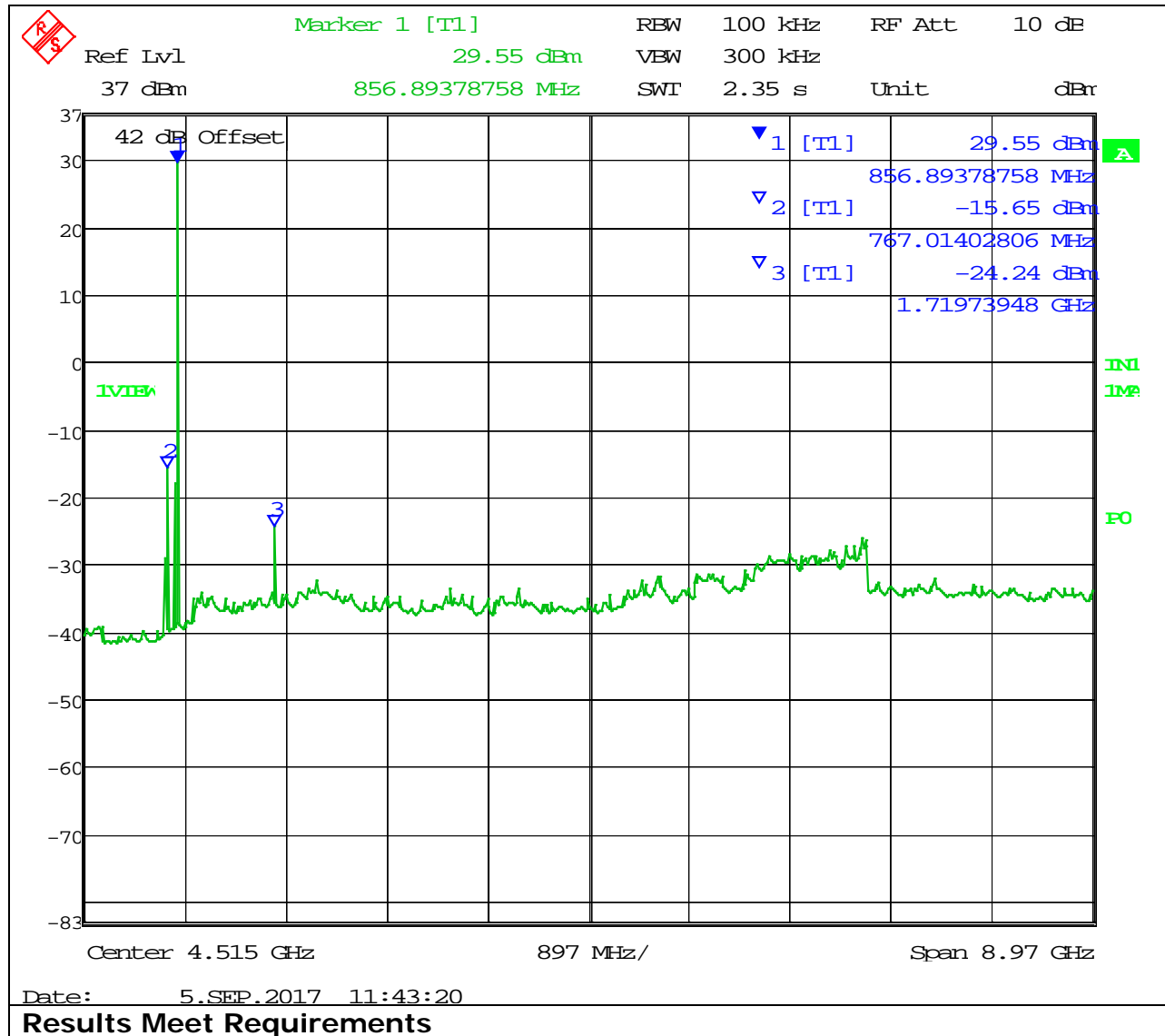
ANTENNA CONDUCTED EMISSIONS §4.7

Test Data: 763 – 775MHz Middle of Band



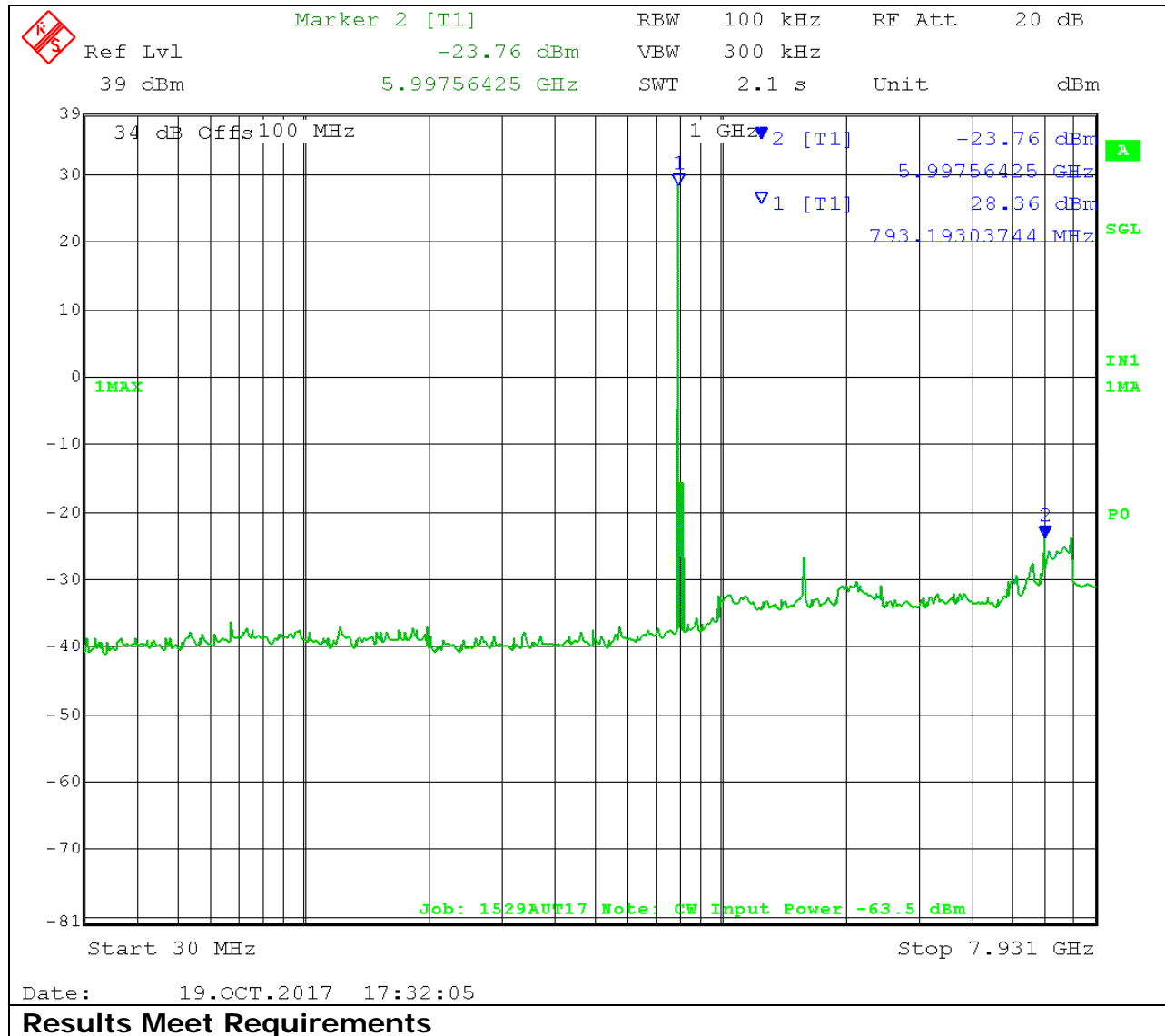
ANTENNA CONDUCTED EMISSIONS §4.7

Test Data: 763 – 775MHz High End of Band



ANTENNA CONDUCTED EMISSIONS §4.7

Test Data: 793-805MHz Low End of Band



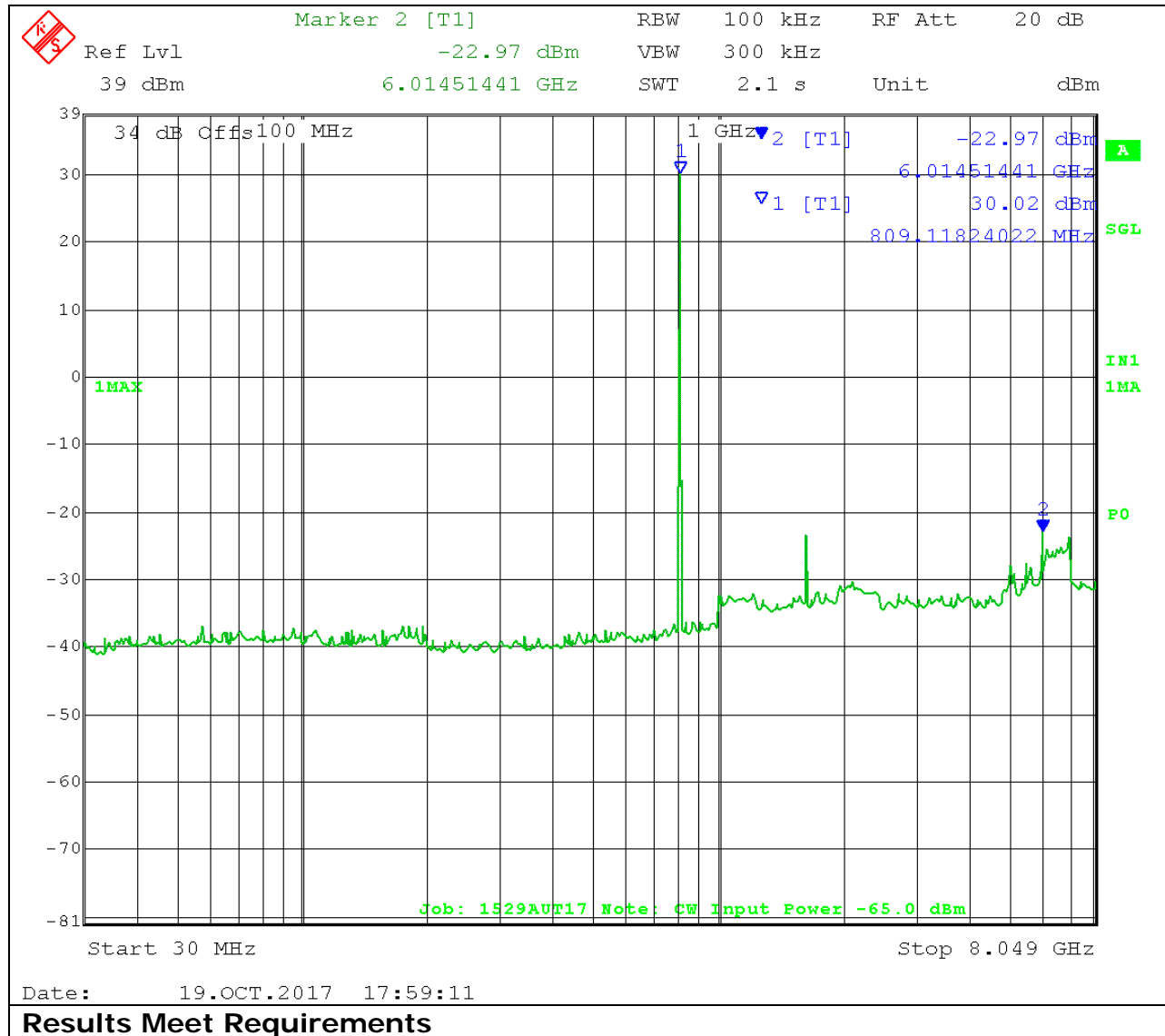
ANTENNA CONDUCTED EMISSIONS §4.7

Test Data: 793-805MHz Middle of Band



ANTENNA CONDUCTED EMISSIONS §4.7

Test Data: 793-805MHz High End of Band



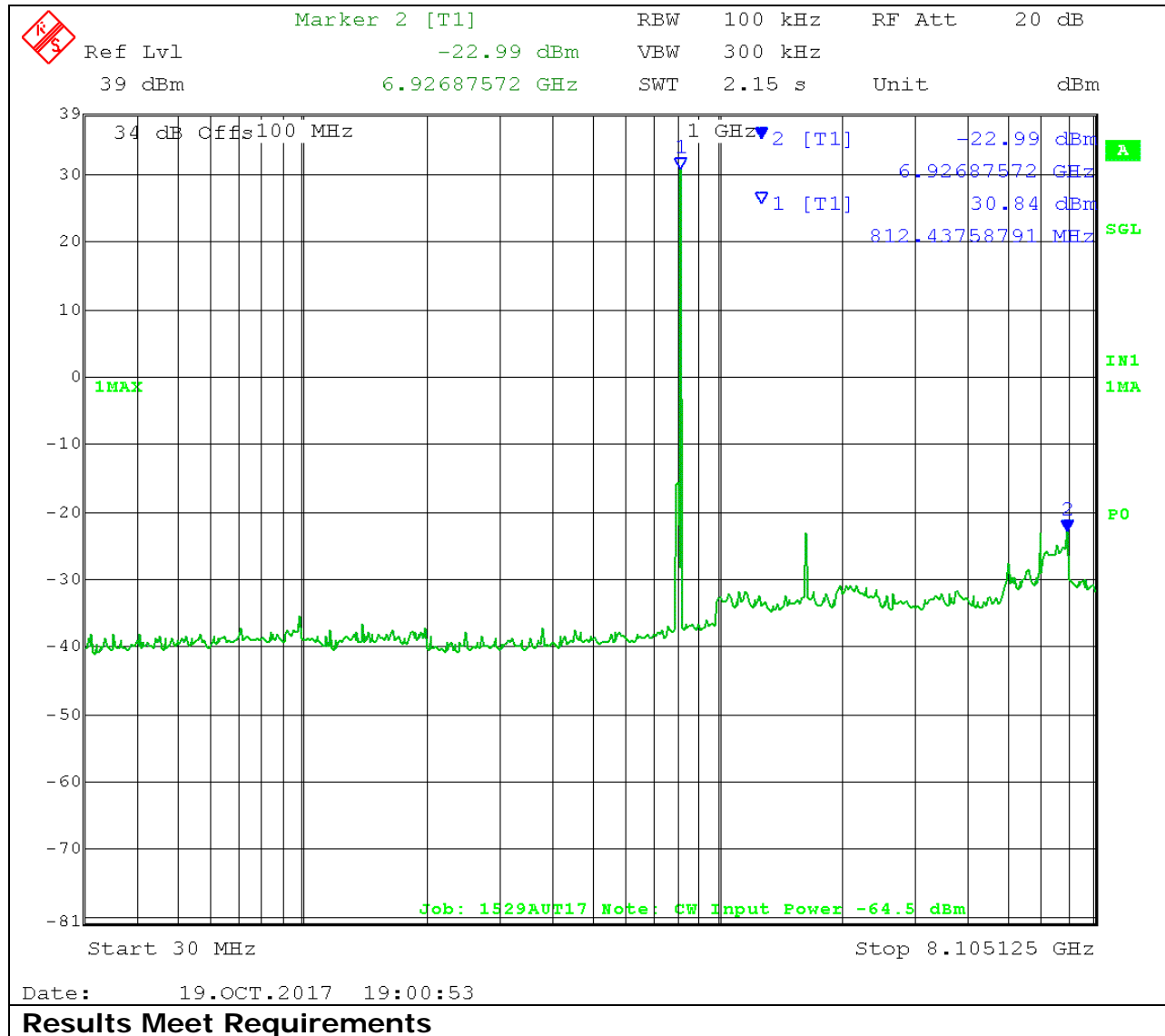
ANTENNA CONDUCTED EMISSIONS §4.7

Test Data: 806-815MHz Low End of Band



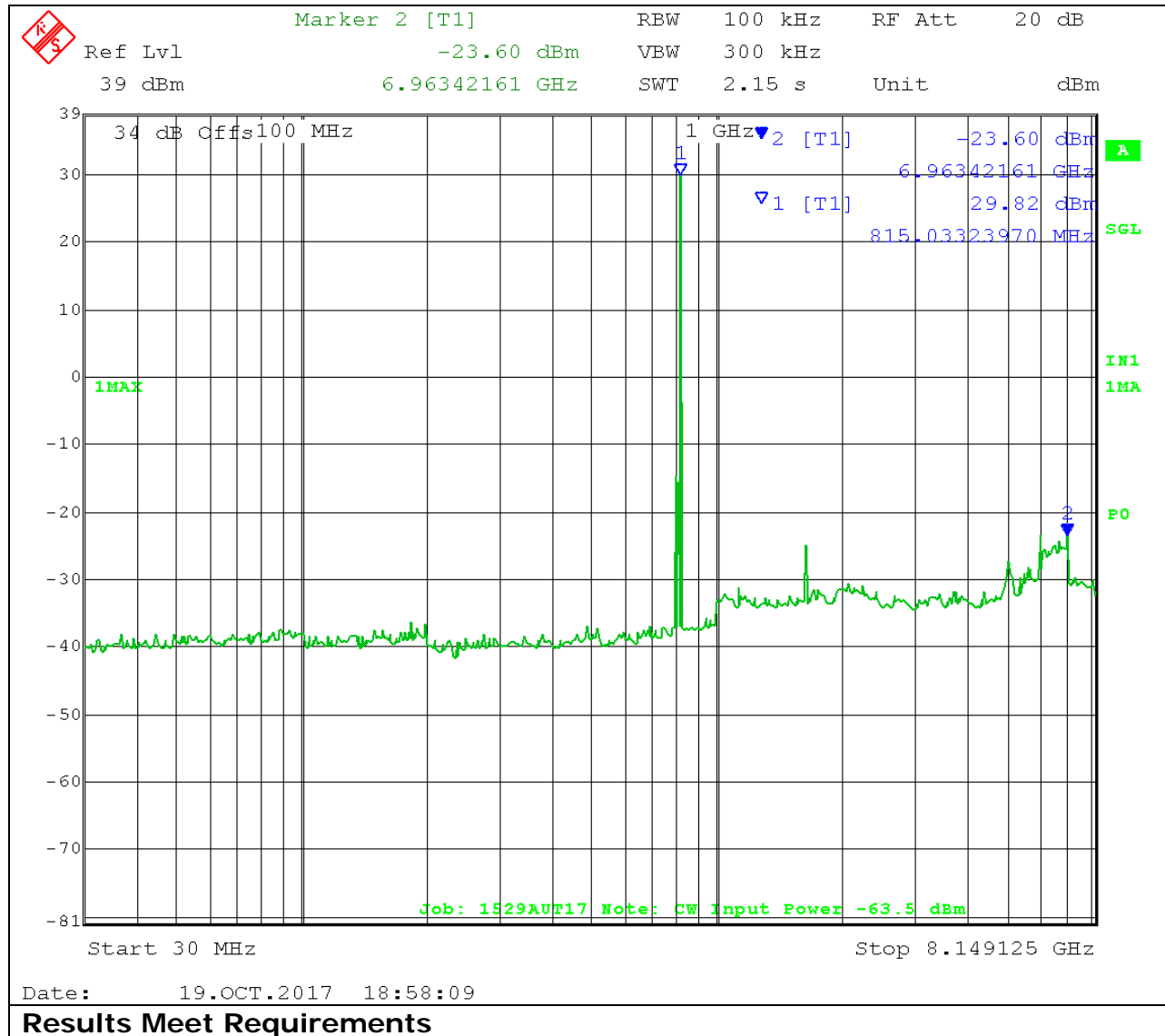
ANTENNA CONDUCTED EMISSIONS §4.7

Test Data: 806-815MHz Middle of Band



ANTENNA CONDUCTED EMISSIONS §4.7

Test Data: 806-815MHz High End of Band



ANTENNA CONDUCTED EMISSIONS §4.7

Test Data: 851-860MHz Low of Band



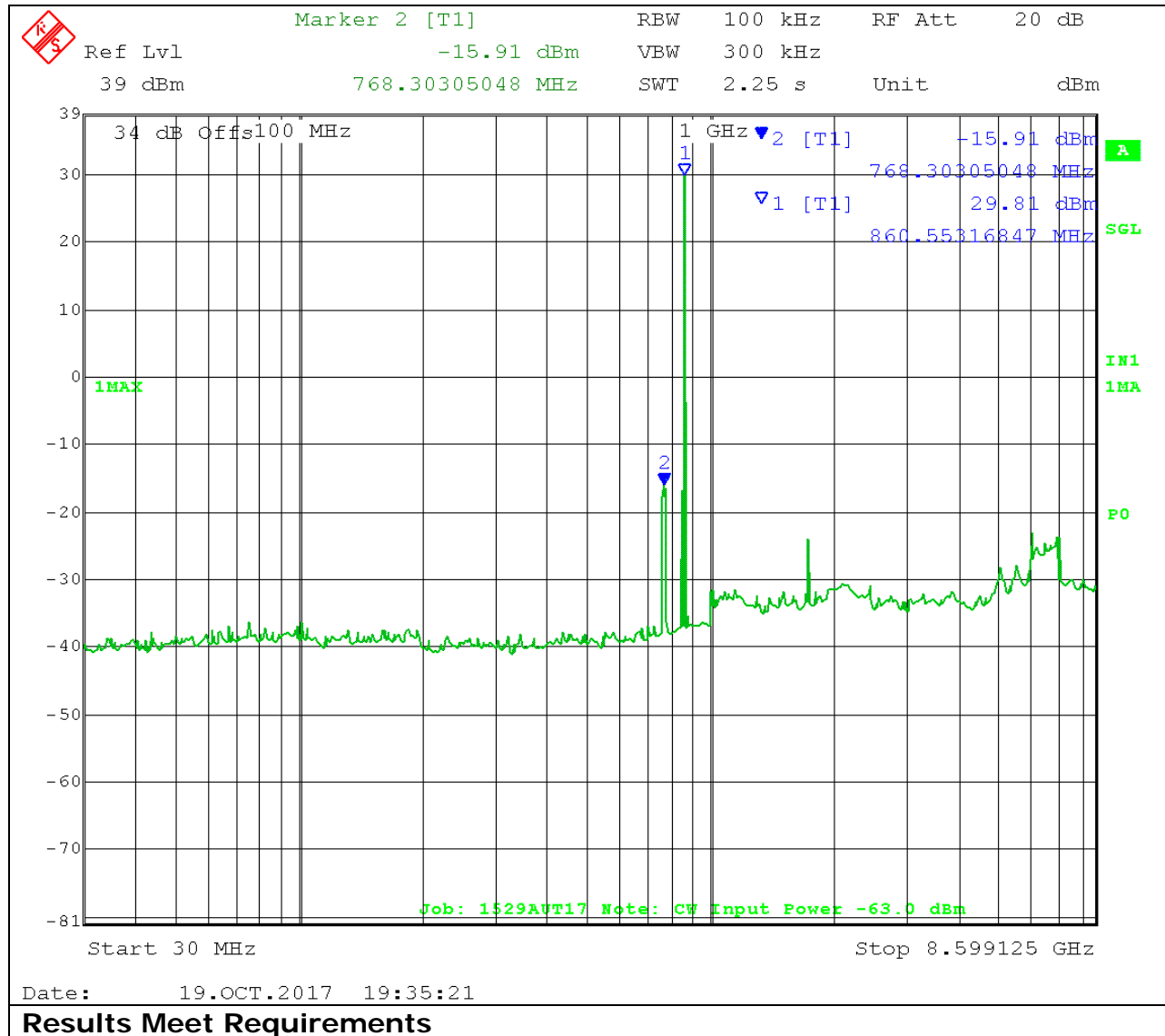
ANTENNA CONDUCTED EMISSIONS §4.7

Test Data: 851-860MHz Middle of Band



ANTENNA CONDUCTED EMISSIONS §4.7

Test Data: 851-860MHz High End of Band



FIELD STRENGTH OF SPURIOUS RADIATION EMISSIONS §4.9

Rule Part No.: 47CFR90.210
KDB 935210-D05 v01r01 §4.9

Requirements: -13 dBm in any 100 kHz bandwidth

Procedure: KDB935210 Measurement Guidance for Industrial Boosters
§ 4.7.1 General
§ 4.9 Spurious emissions radiated measurements

The tabulated data shows the results of the radiated field strength emissions test. The spectrum was scanned from 9 KHz to at least the tenth harmonic of the fundamental. Measurements were made at the test site of **TIMCO ENGINEERING, INC. located at 849 NW State Road 45, Newberry, FL 32669.**

Test Data:

No emissions present within 20 dB of the limit.

Results meet requirements

EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
Antenna: Biconical 1057 Chamber	Eaton	94455-1	1057	11/18/15	11/18/17
Antenna: Log-Periodic	Electro-Metrics	LPA-30	409	02/17/16	02/17/18
CHAMBER	Panashield	3M	N/A	04/25/16	12/31/17
Sweep/Signal Generator	Anritsu	68369B	985112	10/28/15	10/28/17
Antenna: Double-Ridged Horn/ETS Horn 2	ETS-Lindgren Chamber	3117	00041534	03/01/17	03/01/19
Antenna: Active Loop	ETS-Lindgren	6502	00062529	11/18/15	11/18/17
Signal Generator R & S SMIQ 02	Rohde & Schwarz	SMIQ02	DE24678	01/09/16	01/09/18
Coaxial Cable - BMBM-0130-00	Alpha Wire		BMBM-0130-00	05/24/16	05/24/18
Coaxial Cable - Chamber 3 cable set (Primary)	Micro-Coax	Chamber 3 cable set (Primary)	KMKM-0244-01; KMKM-0670-00; KFKF-0198-01	08/08/16	08/08/18
Signal Generator R & S SMU 200A	Rohde & Schwarz	SMU200A	103195	02/29/16	02/28/18
Coaxial Cable - NMNM-0317-00	Unknown		NMNM-0317-00	07/13/16	07/13/18
EMI Test Receiver R & S ESIB 40	Rohde & Schwarz	ESIB 40	100274	08/16/16	08/16/18
Bore-sight Antenna Positioning Tower	Sunol Sciences	TLT2	N/A	N/A	N/A
Pre-amp	RF-LAMBDA	RLNA00M45GA	NA	01/04/16	01/04/18
Noise Source 10MHz - 18GHz	Agilent	346B	MY44421884	05/04/16	05/04/18

*EMI RECEIVER SOFTWARE VERSION

The receiver firmware used was version 4.43 Service Pack 3

STATE OF THE MEASUREMENT UC –

The data and results referenced in this document are true and accurate. The measurement uncertainty was calculated for all measurements listed in this test report according To CISPR 16–4 or ENTR 100-028 Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: “Uncertainty in EMC Measurements” and is documented in the Timco Engineering, Inc. quality system according to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Timco Engineering, Inc. is reported:

Test Items	Measurement Uncertainty	Notes
RF Frequency Accuracy	± 49.5 Hz	(1)
RF Conducted Power	± 0.93 dB	(1)
Conducted spurious emission of transmitter valid up to 40GHz	± 1.86 dB	
Occupied Bandwidth	$\pm 2.65\%$	
Audio Frequency Response	± 1.86 dB	
Modulation limiting	$\pm 1.88\%$	
Radiated RF Power	± 1.4 dB	
Maximum frequency deviation: Within 300 Hz and 6kHz of audio freq.	$\pm 1.88\%$	
Within 6kHz and 25kHz of audio Freq.	$\pm 2.04\%$	
Rad Emissions Sub Meth up to 26.5GHz	± 2.14 dB	
Rad Emissions Sub Meth up to 18-40 GHz	$\pm 2.04\%$	
Adjacent channel power	± 1.47 dB	(1)
Transient Frequency Response	$\pm 1.88\%$	
Temperature	$\pm 1.0^{\circ}\text{C}$	(1)
Humidity	$\pm 5.0\%$	

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

END OF REPORT