


	Test Report Serial No.:	250613-T1223-E-900	Report Issue Date:	6/28/2013	 Test Lab Certificate No. 2470.01
	Measurement Date(s):	May 2-June 25, 2013	Report Revision No.:	Revision 1.0	
	FCC Rule Part(s):	47 CFR §2, §90	FCC Test Firm Reg. No.:	Accredited	
	IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1	

Compliance Test Report		FCC PART 90	IC RSS-119
Test Lab Information	Name	CELLTECH LABS INC.	
	Address	21-364 Lougheed Road, Kelowna, British Columbia V1X 7R8 Canada	
Test Site Registration No.(s)	FCC	Accredited Site (ISO 17025:2005 - A2LA Test Lab Certificate No. 2470.01)	
	IC	3874A-1	
Applicant Information	Name	4RF Communications Ltd.	
	Address	26 Glover St. Wellington 6032 New Zealand	
Standard(s) & Procedure(s)	FCC	47 CFR Part 2; Part 90	
	IC	RSS-119, RSS-Gen.	
	ANSI	TIA/EIA-603-C-2004, C63.4-2003	
Device Classification(s)	FCC	Private Land Mobile Radio Services (TNB)	
	IC	Land Mobile & Fixed Services in the Frequency Range 27.41-960 MHz (TNB)	
Application Type(s)	FCC/IC	New Certification	
Device Identifier(s)	FCC ID:	UIPSRN0400025A	
	IC:	6772A-SRN400	
Device Under Test (DUT)	Aprisa SR 25 KHz, Point-to-Multipoint Transmitter, Scada applications.		
<p>This wireless device has demonstrated compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in FCC 47 CFR Rule Parts 2 and Part 90; Industry Canada RSS-119 Issue 11 and RSS-Gen Issue 3; ANSI TIA/EIA-603-C-2004 and ANSI C63.4-2003.</p> <p>I attest to the accuracy of data. All measurements were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.</p> <p>The results and statements contained in this report pertain only to the device(s) evaluated. This test report shall not be reproduced partially, or in full, without the prior written approval of Celltech Labs Inc.</p>			
Test Report Approved By		Glen Westwell	Lab Manager Celltech Labs Inc.

Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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TABLE OF CONTENTS

SCOPE	4
1.0 REFERENCES	4
1.1 Normative References	4
2.0 PASS/FAIL CRITERIA.....	4
3.0 FACILITIES AND ACCREDITATIONS	4
4.0 GENERAL INFORMATION	5
5.0 RF OUTPUT POWER MEASUREMENT	7
6.0 SPURIOUS EMISSIONS AT THE ANTENNA TERMINAL	9
7.0 OCCUPIED BANDWIDTH AND EMISSION MASK	14
7.1 Test results - OBW	15
7.2 Test results – Spectrum Mask: Complies	21
8.0 RADIATED SPURIOUS EMISSIONS – TX (SIGNAL SUBSTITUTION).....	26
9.0 RADIATED SPURIOUS EMISSIONS.....	29
10.0 FREQUENCY STABILITY	34
11.0 TEST SET-UP PHOTO'S	36
END OF DOCUMENT	39

Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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	IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1	

GENERAL REMARKS

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SUMMARY



The device under test (DUT) fulfills the general approval requirements as identified in this test report.

REVISION LOG

Revision	Description	Implemented By	Implementation Date
1.0	1st Release	Glen Westwell	6/28/2013

Test Report Prepared By	Date	QA Review By	Date
Glen Westwell	6/28/2013	Mike Meaker	6/28/2013

Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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	IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1	

SCOPE

This report outlines the results collected during RF radiated and conducted measurements of the 4RF Aprisa SR 25kHz point-to-multipoint radio. The measurement results were applied against the applicable requirements and limits outlined in the technical rules and regulations set forth in the Federal Communication’s Commission Code of Federal Regulations Title 47 Part 2 and Part 90; and Industry Canada Radio Standards Specification RSS-119 and RSS-Gen.

1.0 REFERENCES

1.1 Normative References


ANSI/ISO 17025:2005	General Requirements for competence of testing and calibration laboratories
IEEE/ANSI C63.4:2003	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
ANSI/TIA/EIA-603-C:2004	Land Mobile FM or PM Communication Equipment Measurement and Performance Standards
CFR Title 47 Part 2	Code of Federal Regulations Title 47: Telecommunication Part 2: Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
CFR Title 47 Part 90	Code of Federal Regulations Title 47: Telecommunication Part 90: Private Land Mobile Radio Services
IC Spectrum Management & Telecommunications Policy	Radio Standards Specification RSS-119 – Land Mobile Fixed Services; 27.41-960 MHz RSS-Gen - General Requirements and Information for the Certification of Radiocommunication Equipment



2.0 PASS/FAIL CRITERIA

Unless otherwise noted in the Appendices, the pass/fail criteria are the limit set forth in the reference standards. The DUT is considered to have passed the requirements if the data collected during the described measurement procedure is no greater than the specified limits as defined. The pass/fail statements made in this report only apply to the unit tested.

3.0 FACILITIES AND ACCREDITATIONS

The facilities used in collecting the test results outlined in this report are located at 21-364 Lougheed Road, Kelowna, British Columbia, Canada V1X 7R8. The radiated emissions site conforms to the requirements set forth in ANSI C63.4 and is filed and listed with the FCC as an accredited test facility and Industry Canada under File Number IC 3874A-1.

Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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	IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1	

4.0 GENERAL INFORMATION

DUT Description & Specifications

Device Description	Aprisa SR 25 kHz Point-to-Multipoint Digital Radio	
Test Sample Serial No.	T/A Sample - Identical Prototype	
Device Identifier(s)	FCC ID:	UIPSRN0400025A
	IC ID:	6772A-SRN400
Model number(s)	** FCC single port = APSR-N400-025-SO-12-FCA FCC dual port = APSR-N400-025-DO-12-FCA IC single port = APSR-N400-025-SO-12-ICA IC dual port = APSR-N400-025-DO-12-ICA	
Transmit Frequency Range	UHF 400 – 470 MHz (25 KHz Channels)	
Rated TX Power	+37.0dBm	
Modulation	4-CPFSK	
Spectral Efficiency	19,200 bits per second / 25 KHz or 4800 bits per second / 6.25 kHz	
Antenna	Maximum antenna gain = 15dBi.	
Emission Designator	20K0D7W (99% = 13.68 kHz, ABW = 20 kHz)	
DUT Power Source	Nominal 13.8Vdc	
Type of Equipment	Fixed. Licensed Non-Broadcast Station Transmitter (TNB)	
Deviation(s) from standard/procedure	None	
Modification of DUT	None	
Test Exercise	The DUT was placed in continuous transmit mode.	
Applicable Standards	FCC Part 90, IC RSS-119	

DUT Function & Test Statements

Spectrum Efficient Technologies Part 90.203(j)(5).


This device complies with the spectrum efficiency requirement of this rule part.



It uses 4-CPFSK modulation and operates at 9600 symbols per second or 19,200 bits per second / 25 KHz channel, which also meets the minimum data rate of 4800 bits per 6.25 kHz channel bandwidth.

A manufacturer's attestation exhibit has been submitted with this filing.


This device has no voice frequency capability. It uses digital modulation only. Therefore no voice frequency test requirements have been reported.


**This device comes in two electrically identical variants. One with a single combined TX/RX port and one with separate RX and TX ports. A manufacturer's attestation exhibit has been submitted with this filing.

Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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<u>Section</u>	<u>Description of Test</u>	<u>Procedure Reference</u>	<u>Limit Reference</u>	<u>Result</u>
5	RF Output Power	ANSI/TIA/EIA-603-C	§2.1046, §90.205	Pass
6	Spurious Emissions at the antenna terminals (Conducted)	ANSI/TIA/EIA-603-C	§2.1051, 90.210	Pass
7	Occupied Bandwidth and Emission Mask	ANSI/TIA/EIA-603-C	§2.1049, §90.210	Pass
8	Radiated Spurious Emissions	ANSI C63.4-2003	§2.1053, §90.210	Pass
10	Frequency Stability	ANSI/TIA/EIA-603-C	§2.1055, §90.213	Pass
<u>Section</u>	<u>Description of Test</u>	<u>Procedure Reference</u>	<u>Limit Reference</u>	<u>Result</u>
5	Transmitter Output Power	RSS-Gen 4.8	RSS-119, 5.4	Pass
6	Spurious Emissions at the antenna terminals (Conducted)	RSS-Gen 4.9	RSS-119, 5.8	Pass
7	Occupied Bandwidth and Emission Mask	RSS-Gen 4.6.1	RSS-119, 5.5	Pass
8	Radiated Spurious Emissions	ANSI C63.4-2003	RSS-119, 5.8	Pass
10	Frequency Stability	RSS-Gen 4.7	RSS-119, 5.3	Pass

Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
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	IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1	

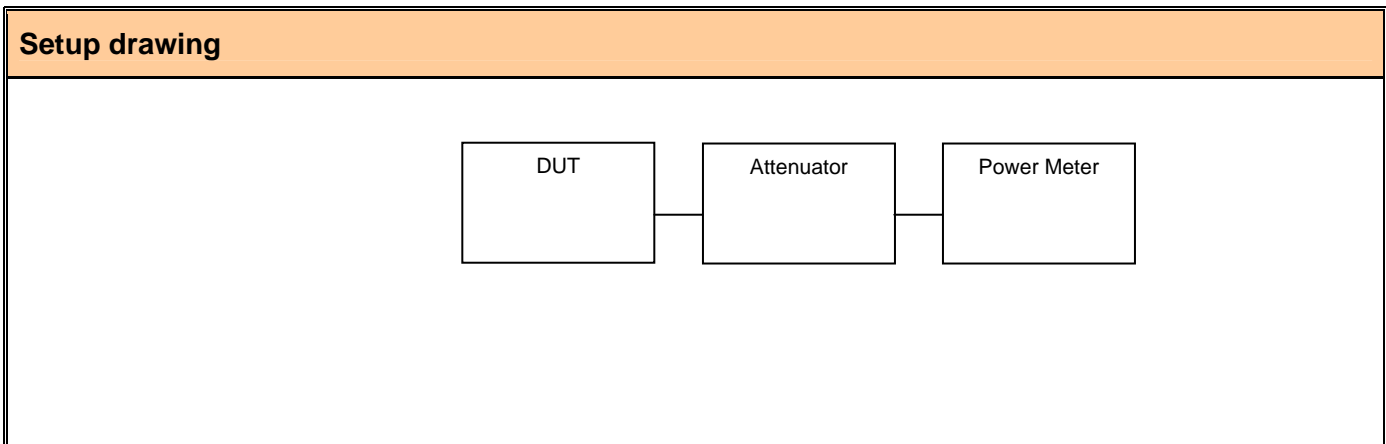
5.0 RF OUTPUT POWER MEASUREMENT


References	
Normative Reference Standard	FCC CFR 47 §2.1046, §90.205; IC RSS-119, 5.4
Procedure Reference	The RF output power measurements were performed in accordance with ANSI TIA/EIA Standard 603.


Limits	
FCC CFR 47 §90.279	ERP relative to Effective Antenna Height (EAH), 90.279.
RSS-119, 5.4	The output power shall be within ± 1.0 dB of the manufacturers rated power.

Environmental conditions	
Temperature	25 +/- 5 °C
Humidity	40 +/- 10 %
Barometric Pressure	101 +/- 3 kPa

ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE
00007	Gigatronics	8652A	Power Meter	03-May-14
00014	Gigatronics	80701A	Power Sensor	03-May-14



Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
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	IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1	

Test results: Complies

Measured Frequency (MHz)	Conducted Output Power (dBm)	Rated Output Power (dBm)
406.11250	36.8	37.0
429.98750	36.7	37.0
450.01250	36.6	37.0
469.98750	36.6	37.0

Sign-off


I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.





Glen Westwell
Lab Manager
Celltech Labs Inc.

6/28/2013

Date

Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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	IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1	

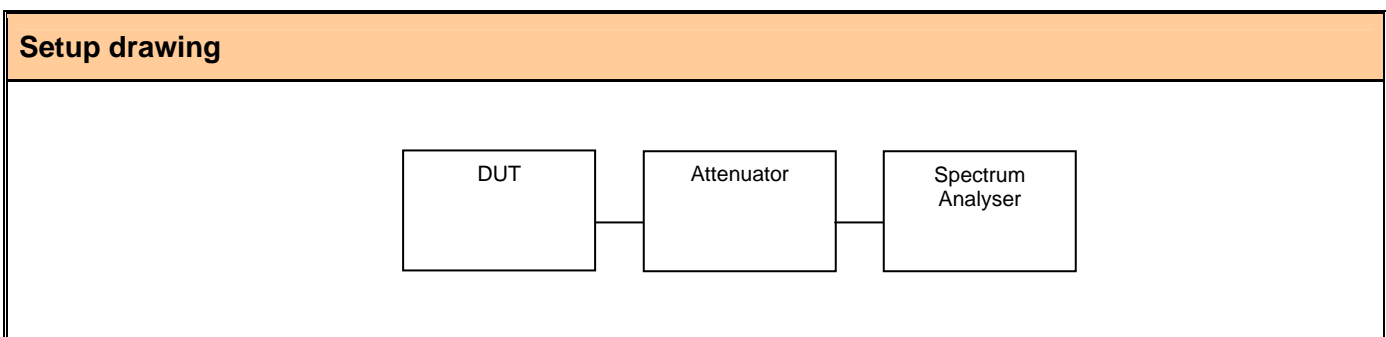
6.0 SPURIOUS EMISSIONS AT THE ANTENNA TERMINAL


References	
Normative Reference Standard	FCC CFR 47 §2.1051, §90.210; IC RSS-119, 5.8
Procedure Reference	<p>The spurious emissions measurements at the antenna terminal were performed in accordance with ANSI TIA/EIA Standard 603.</p> <p>The emission search was performed across all required ranges. The worst case performance has been presented.</p>

Limits	
FCC CFR 47 §90.210	$43 + 10 \text{ Log (Po)} = 43 + 10 \text{ Log}$
RSS119, Para. 5.8	$43 + 10 \text{ Log (Po)} = 43 + 10 \text{ Log}$

Environmental conditions	
Temperature	25 +/- 5 °C
Humidity	40 +/- 10 %
Barometric Pressure	101 +/- 3 kPa

ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE
00051	HP	8566B	Spectrum Analyzer RF Section	10-May-2014
00047	HP	85685A	RF Preselector	10-May-2014
00241	R&S	FSU 40	Spectrum Analyzer	09-Apr-2015



Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
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Test Report Serial No.:	250613-T1223-E-900	Report Issue Date:	6/28/2013
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Test Lab Certificate No. 2470.01

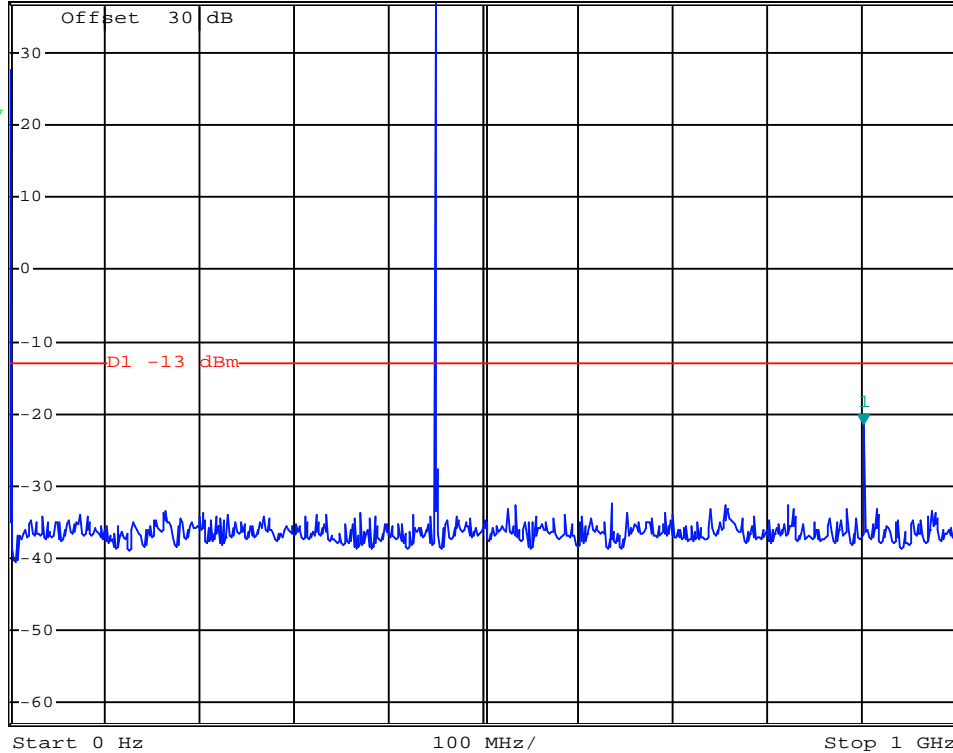
Test results: Complies



*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -21.28 dBm
 SWT 100 ms 902.00000000 MHz

Ref 37 dBm

*Att 20 dB



Date: 26.APR.2013 13:53:44

Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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Test Report Serial No.:	250613-T1223-E-900	Report Issue Date:	6/28/2013
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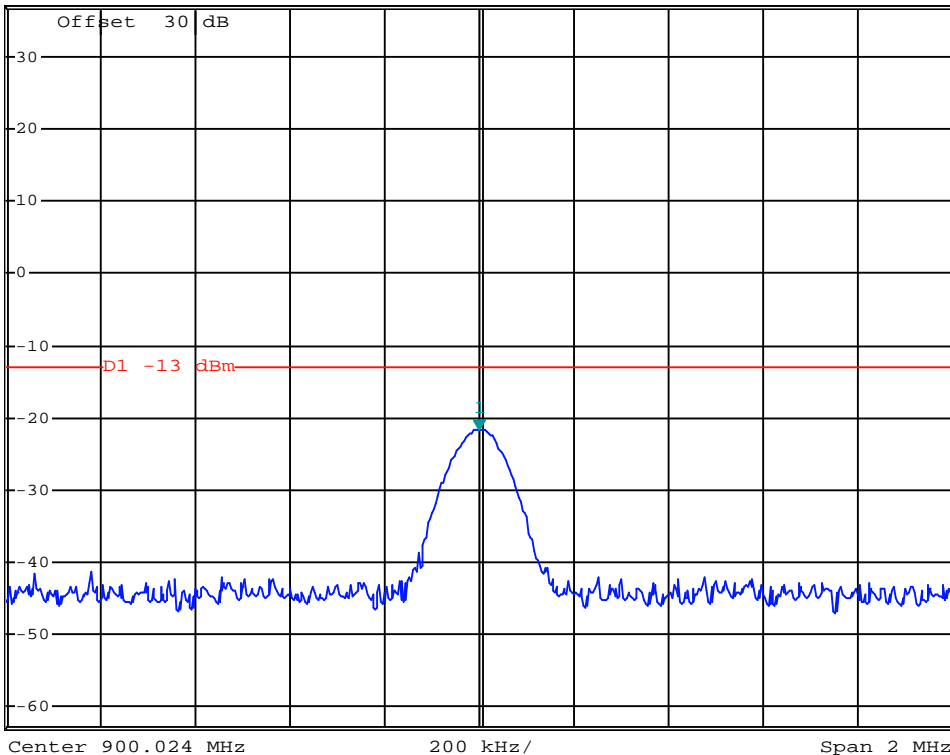


*RBW 100 kHz Marker 1 [T1]
 VBW 1 MHz -21.67 dBm
 SWT 2.5 ms 900.02400000 MHz

Ref 37 dBm

*Att 20 dB

1 RM*
 VIEW



Date: 26.APR.2013 13:55:51

Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
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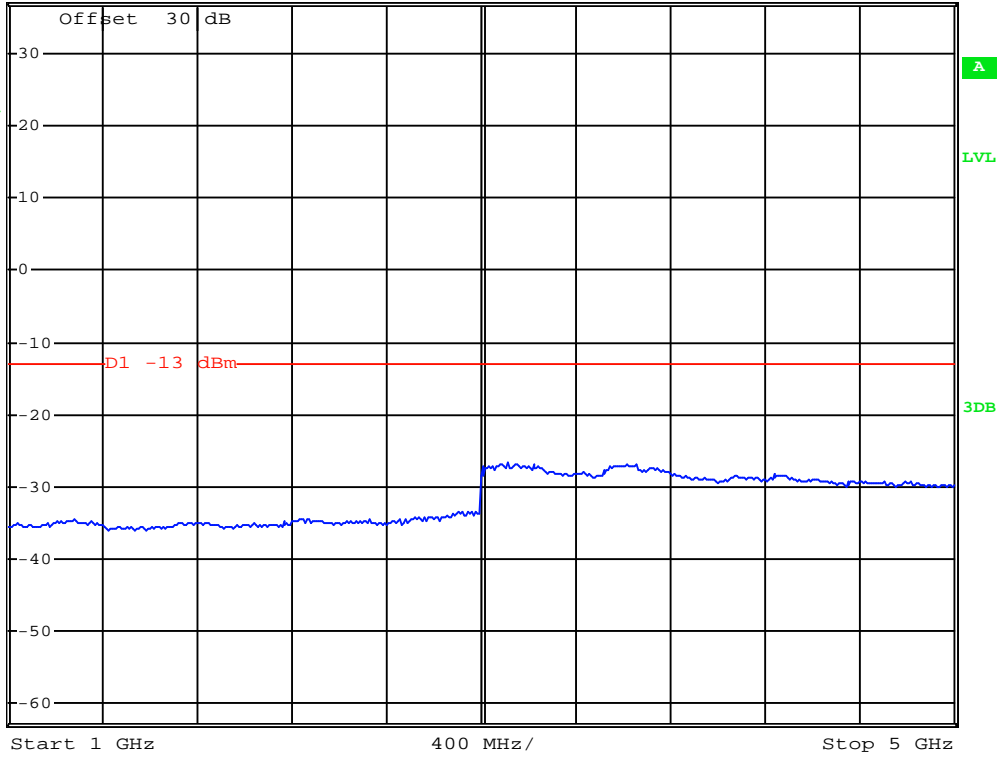


*RBW 1 MHz
 VBW 10 MHz
 SWT 80 ms

Ref 37 dBm



*Att 20 dB

1 PK*
 VIEW



Date: 26.APR.2013 13:50:48

Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
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	Test Report Serial No.:	250613-T1223-E-900	Report Issue Date:	6/28/2013	 Test Lab Certificate No. 2470.01
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Sign-off


I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.





Glen Westwell,
Lab Manager
Celltech Labs Inc.

6/28/2013

Date

Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
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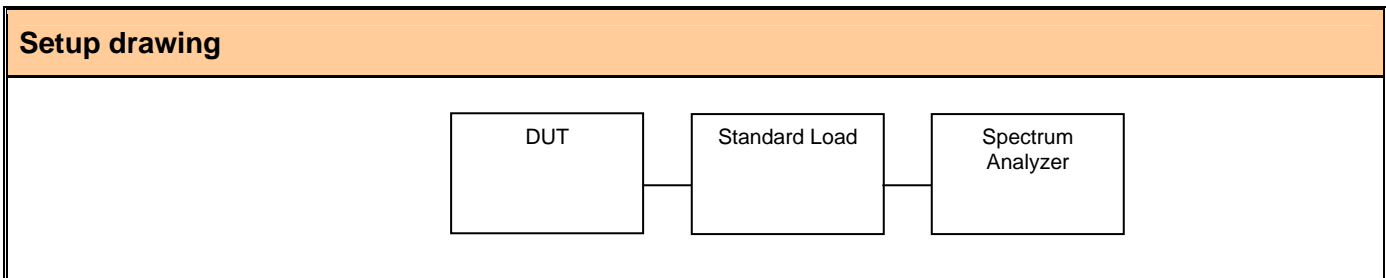
7.0 OCCUPIED BANDWIDTH AND EMISSION MASK


References	
Normative Reference Standard	FCC CFR 47 §2.1049, §90.210 RSS-119, 5.8
Procedure Reference / Description	Occupied bandwidth was performed by connecting the output of the DUT to the input of a spectrum analyzer.

Limits	
§90.210	Mask C.
RSS-119	The nominal authorized channel bandwidth : Channel spacing = 25kHz, ABW = 20kHz

Environmental conditions	
Temperature	25 +/- 5 °C
Humidity	40 +/- 10 %
Barometric Pressure	101 +/- 3 kPa

Equipment list				
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE
00241	R&S	FSU 40	Spectrum Analyzer	09-Apr-2015



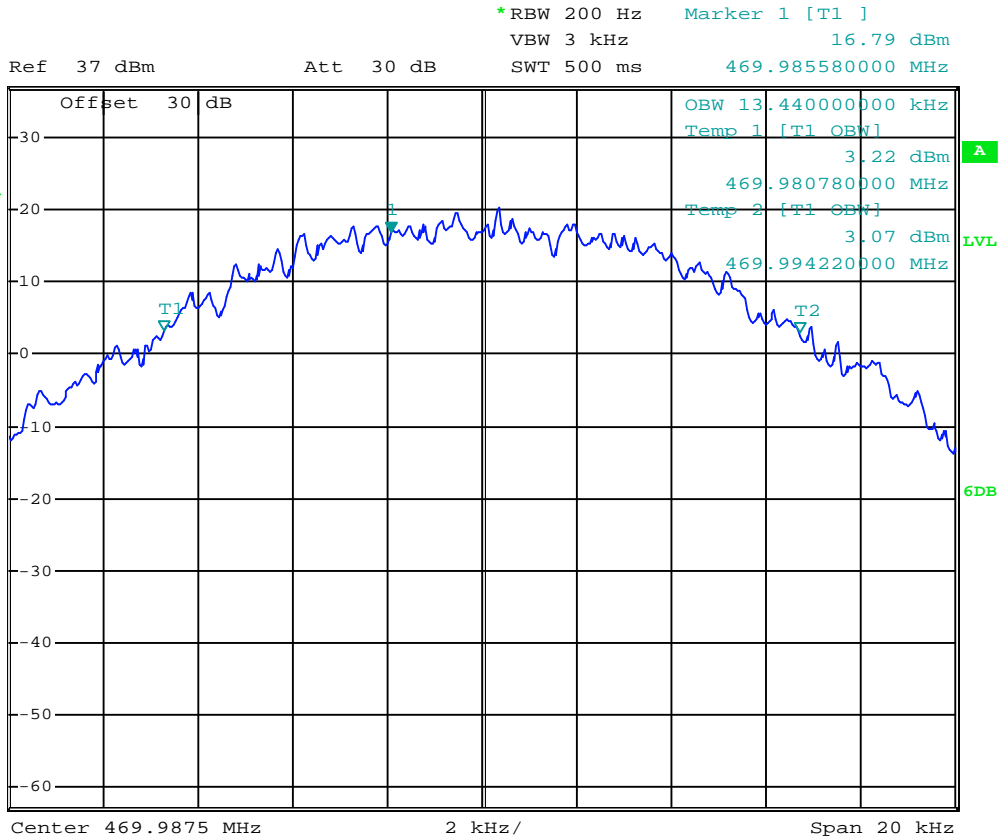
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DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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7.1 Test results - OBW

99% Occupied Bandwidth = 13.44 kHz



1 RM
VIEW



Date: 26.APR.2013 13:35:32

Test results Cont.

99% Occupied Bandwidth = 13.68Hz

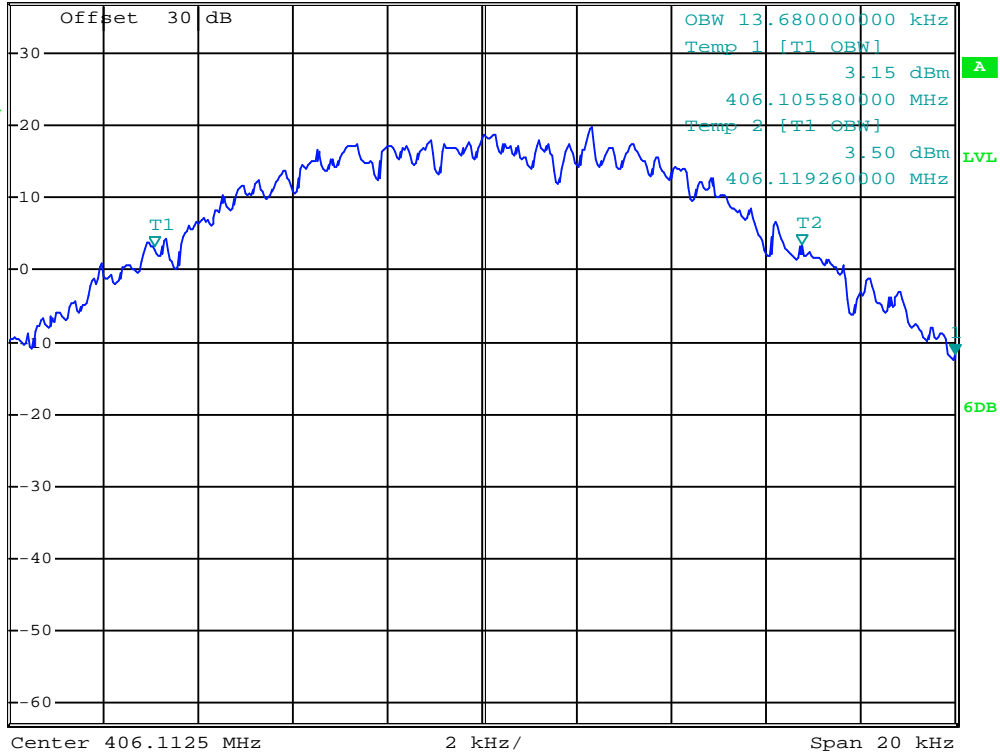


*RBW 200 Hz Marker 1 [T1]
 VBW 3 kHz -11.72 dBm
 SWT 500 ms 406.122500000 MHz

Ref 37 dBm

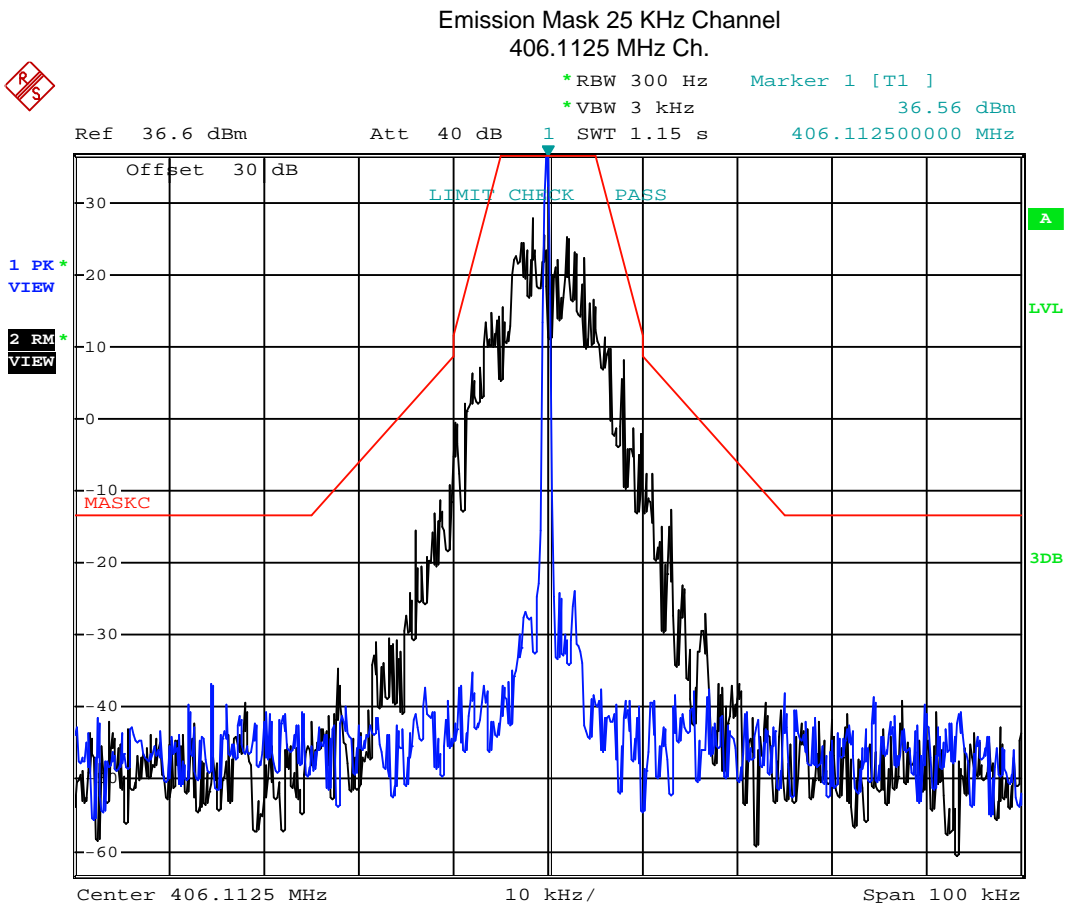
Att 30 dB

1 RM
VIEW



Date: 26.APR.2013 13:38:00

7.2 Test results – Spectrum Mask C: Complies

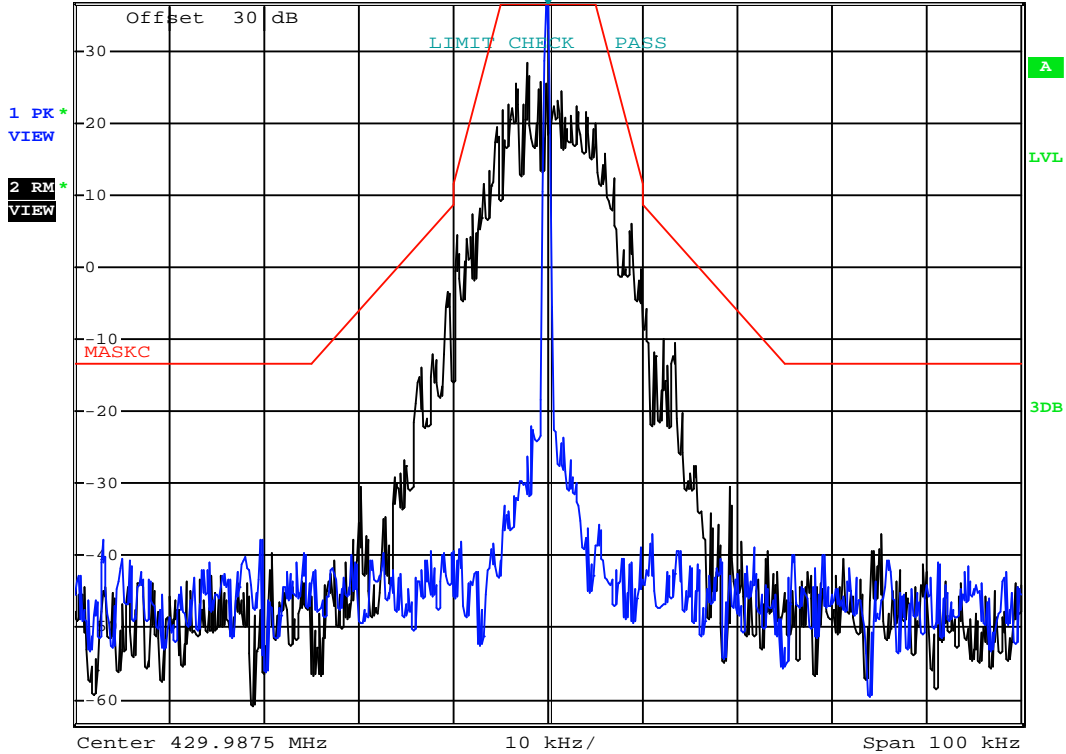


Date: 27.JUN.2013 19:59:27

Emission Mask 25 KHz Channel
429.9875 MHz Ch.



*RBW 300 Hz Marker 1 [T1]
 *VBW 3 kHz 36.60 dBm
 Ref 36.6 dBm Att 40 dB 1 SWT 1.15 s 429.987500000 MHz



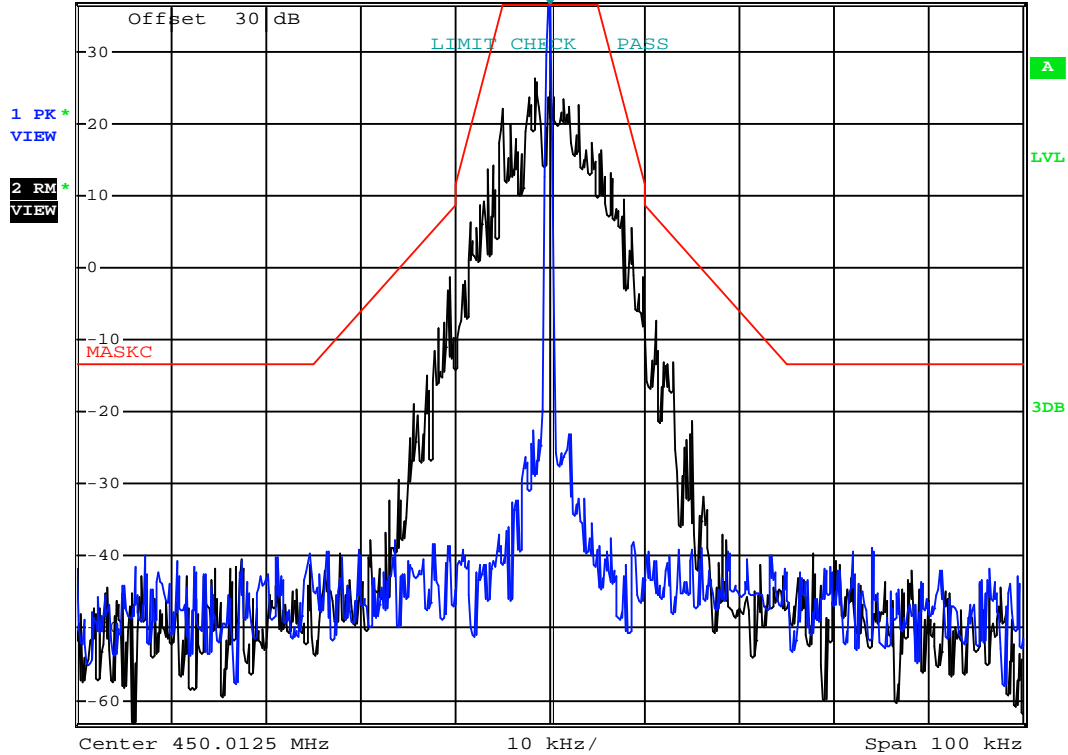
Date: 27.JUN.2013 19:52:03

Test Report Serial No.:	250613-T1223-E-900	Report Issue Date:	6/28/2013
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IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1

Emission Mask 25 KHz Channel
450.0125 MHz Ch.



*RBW 300 Hz Marker 1 [T1] 36.52 dBm
*VBW 3 kHz
Ref 36.6 dBm Att 40 dB 1 SWT 1.15 s 450.012500000 MHz



Date: 27.JUN.2013 20:15:57

Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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Test Report Serial No.:	250613-T1223-E-900	Report Issue Date:	6/28/2013
Measurement Date(s):	May 2-June 25, 2013	Report Revision No.:	Revision 1.0
FCC Rule Part(s):	47 CFR §2, §90	FCC Test Firm Reg. No.:	Accredited
IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1

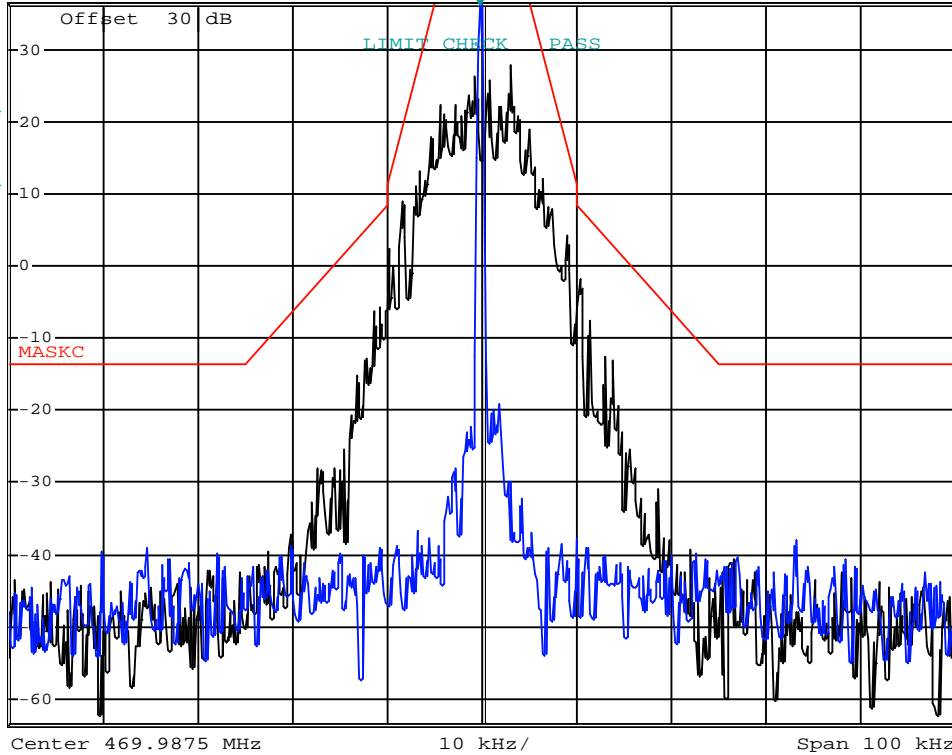
Emission Mask 25 KHz Channel
469.9875 MHz Ch.



*RBW 300 Hz Marker 1 [T1] 36.38 dBm
*VBW 3 kHz
Ref 36.4 dBm Att 40 dB 1 SWT 1.15 s 469.987300000 MHz

1 PK *
VIEW

2 RM *
VIEW



Date: 27.JUN.2013 20:06:54

Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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7.3 Test results – Spectrum Mask B: Complies

Emission Mask 25 KHz Channel
406.1125 MHz Ch.

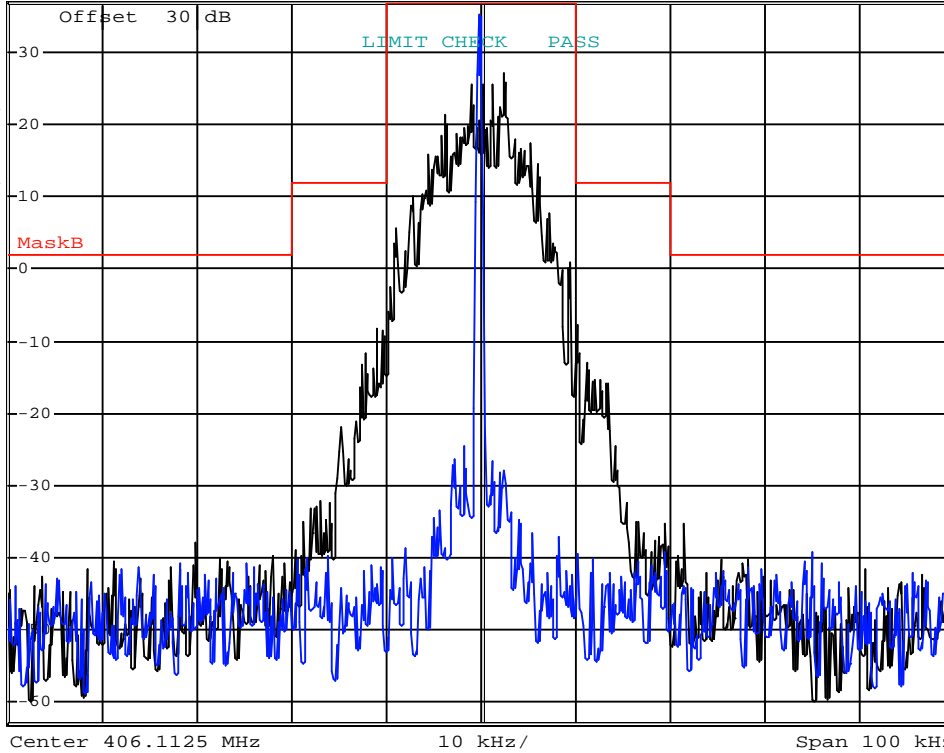


*RBW 300 Hz
VBW 3 kHz
SWT 1.15 s

Ref 37 dBm

*Att 20 dB

1 RM *
VIEW
2 RM *
VIEW



Date: 26.APR.2013 17:37:01

Emission Mask 25 KHz Channel
429.9875 MHz Ch.



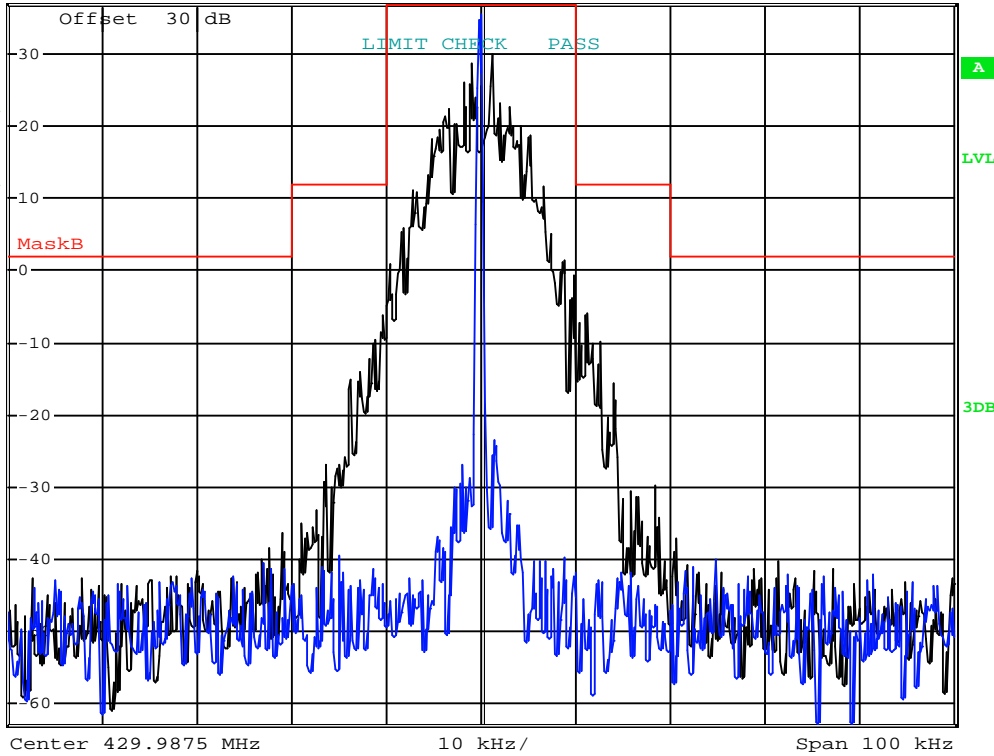
*RBW 300 Hz
VBW 3 kHz
SWT 1.15 s

Ref 37 dBm

*Att 20 dB

1 RM
VIEW

2 RM
VIEW



Date: 26.APR.2013 17:38:56

Emission Mask 25 KHz Channel
450.0125 MHz Ch.



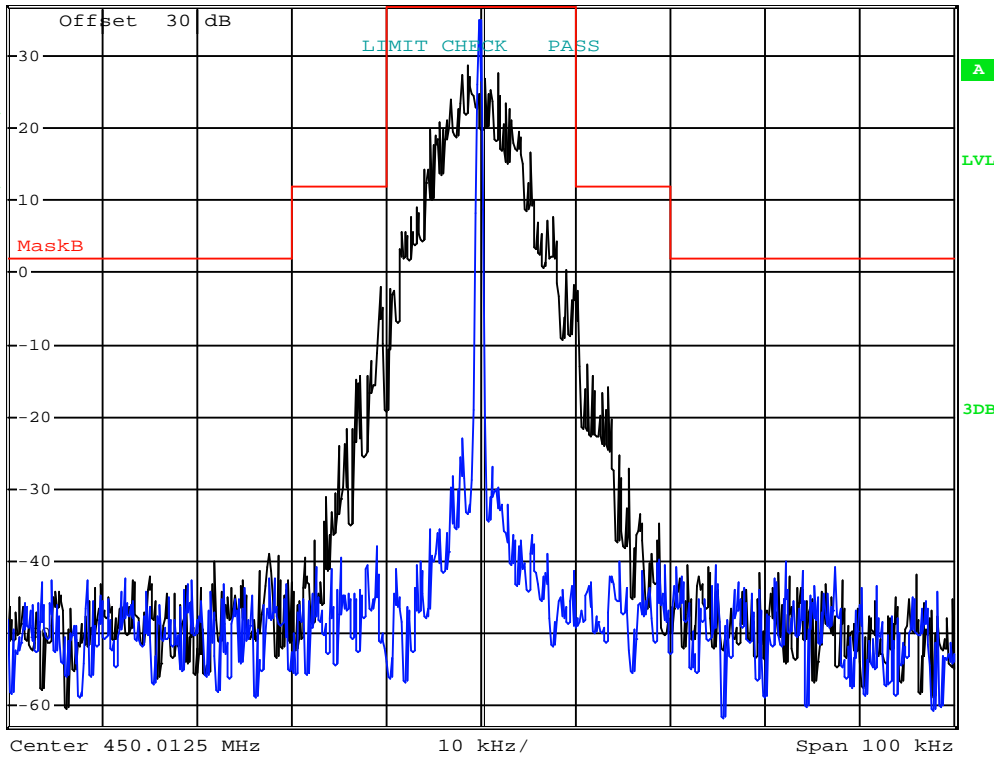
*RBW 300 Hz
VBW 3 kHz
SWT 1.15 s

Ref 37 dBm

*Att 20 dB

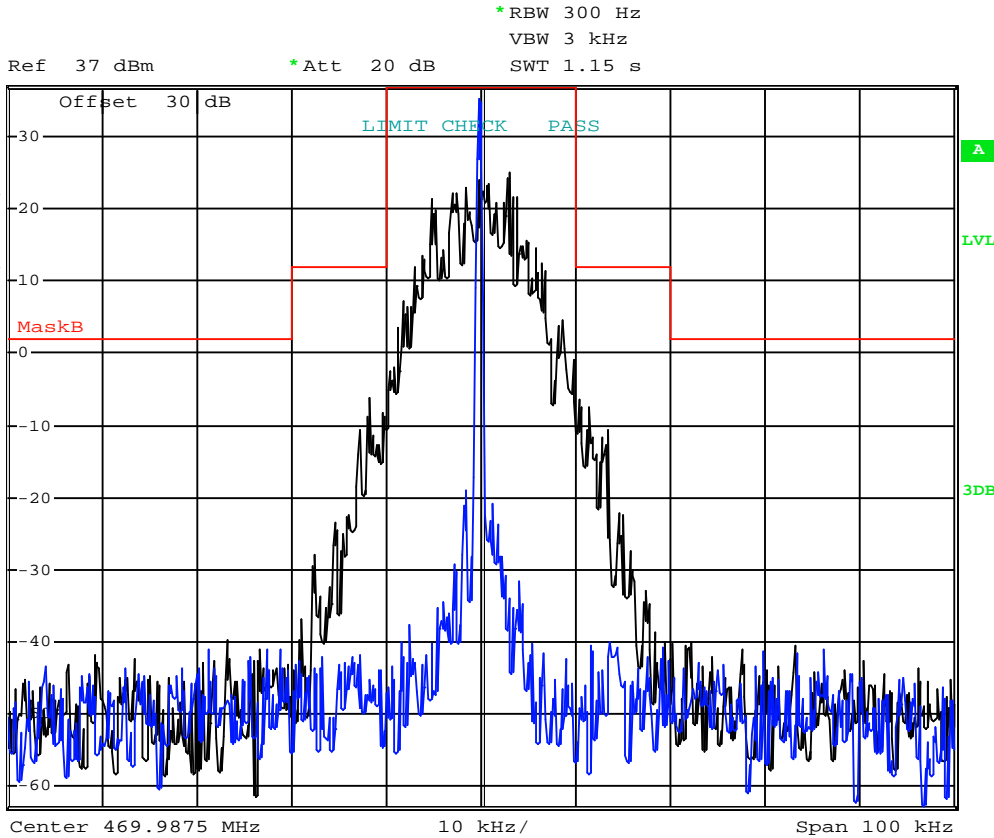
1 RM
VIEW

2 RM
VIEW





Date: 26.APR.2013 17:32:13

Emission Mask 25 KHz Channel
469.9875 MHz Ch.



Date: 26.APR.2013 17:34:50

	Test Report Serial No.:	250613-T1223-E-900	Report Issue Date:	6/28/2013	 Test Lab Certificate No. 2470.01
	Measurement Date(s):	May 2-June 25, 2013	Report Revision No.:	Revision 1.0	
	FCC Rule Part(s):	47 CFR §2, §90	FCC Test Firm Reg. No.:	Accredited	
	IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1	

Sign-off


I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.





Glen Westwell,
Lab Manager
Celltech Labs Inc.

6/28/2013

Date

Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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	Test Report Serial No.:	250613-T1223-E-900	Report Issue Date:	6/28/2013	 Test Lab Certificate No. 2470.01
	Measurement Date(s):	May 2-June 25, 2013	Report Revision No.:	Revision 1.0	
	FCC Rule Part(s):	47 CFR §2, §90	FCC Test Firm Reg. No.:	Accredited	
	IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1	

8.0 RADIATED SPURIOUS EMISSIONS – TX (SIGNAL SUBSTITUTION)


References	
Normative Reference Standard	FCC CFR 47 §2.1053; 90.210; IC RSS-119, RSS-GEN
Measurement Reporting	<ul style="list-style-type: none"> The transmitter spurious emissions were measured in accordance with ANSI/TIA-603-C. The spectrum was searched from the lowest frequency generated in the DUT up to the 10th harmonic of the fundamental frequency. The DUT was characterized on 3 orthogonal axis. Detected emissions are reported.


Limits	
§90.210, RSS-119,	Emissions must be at least 43 + 10 log ₁₀ (P) dB below the mean power output of the transmitter.

Environmental conditions	
Temperature	25 +/- 5 °C
Humidity	40 +/- 10 %
Barometric Pressure	101 +/- 3 kPa

Equipment list				
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE
00072	EMCO	2075	Mini-mast	n/a
00073	EMCO	2080	Turn Table	n/a
00071	EMCO	2090	Multi-Device Controller	n/a
00241	R&S	FSU 40	Spectrum Analyzer	09-Apr-15
00050	Chase	CBL-6111A	Bilog Antenna	07-May-14
00055	EMCO	3121C	Dipole Antenna	07-Mat-14
00034	EMCO	3115	Horn Ant.	06-Dec-14
00035	EMCO	3115	Horn Ant.	06-Dec-14
00239	Miteq	JS4-00102600	LNA	COU
00006	R & S	SMR 20	Signal Generator (10MHz-40GHz)	1-May-14
00007	Gigatronics	8652A	Power Meter	03-May-14
00014	Gigatronics	80701A	Power Sensor	03-May-14

Note: COU = cal on use.

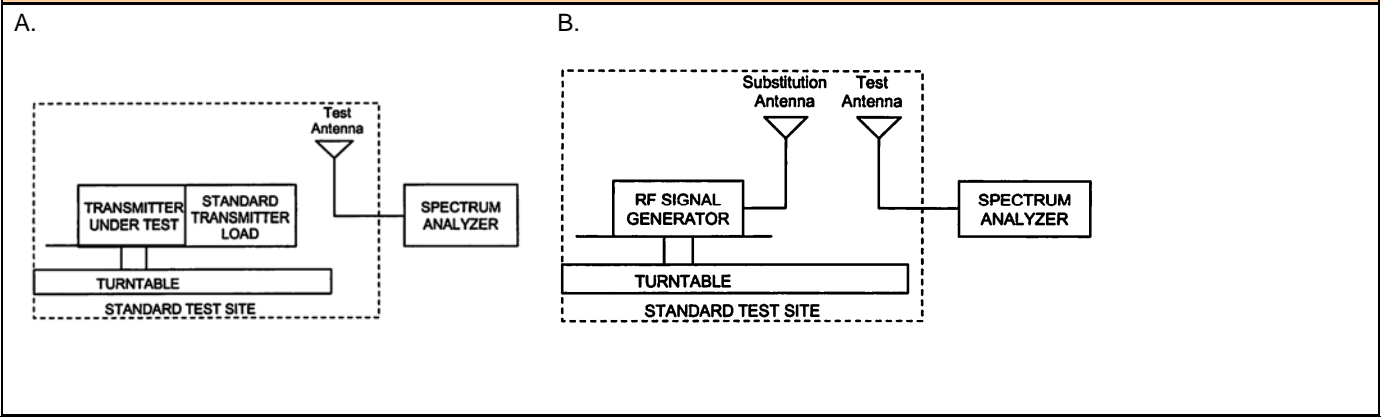
Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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	Test Report Serial No.:	250613-T1223-E-900	Report Issue Date:	6/28/2013	 Test Lab Certificate No. 2470.01
	Measurement Date(s):	May 2-June 25, 2013	Report Revision No.:	Revision 1.0	
	FCC Rule Part(s):	47 CFR §2, §90	FCC Test Firm Reg. No.:	Accredited	
	IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1	



Measurement equipment setup

MEASUREMENT EQUIPMENT CONNECTIONS	For the field strength measurements, the measurement equipment was connected as shown in D.6. For the final substitutions, the DUT was replaced with the appropriate antenna and fed from a CW signal source sufficient to replicate the received field strength of the emission being investigated. Worst case performance is presented.		
	Frequency Range	RX Antenna	TX Antenna
	30 MHz - 1GHz	Bilog	Dipole
	1 GHz - 18 GHz	ETS 3115 Horn	ETS 3115 Horn
MEASUREMENT EQUIPMENT SETTINGS	Measurement Settings.		
	RBW	VBW	Detector
	MHz	MHz	
	100 kHz < 1GHz 1 MHz >1 GHz	300 kHz < 1 GHz 3 MHz > 1 GHz	Peak

Setup drawing(s)



Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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	Test Report Serial No.:	250613-T1223-E-900	Report Issue Date:	6/28/2013	
	Measurement Date(s):	May 2-June 25, 2013	Report Revision No.:	Revision 1.0	
	FCC Rule Part(s):	47 CFR §2, §90	FCC Test Firm Reg. No.:	Accredited	
	IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1	
					Test Lab Certificate No. 2470.01

Radiated Emissions: Signal Substitution (Fig. A&B)

TX: 429.9875 MHz	Ant. Polarity	Emission Level	Substitution Level	Antenna Gain (+)	Cable loss (+)	Amp Gain (-)	Corrected Pwr Level	Limit	Margin
(MHz)		(dBuV)	(dB)	(+dBi)	(dB)	(dB)	(dBm)	(dBm)	(dB)
859.975	V	55.0	-46.5	1.88 (dBd)	12.1	29.9	-62.4	-13.0	49.4
859.975	H	54.0	-47.3	1.88 (dBd)	12.1	29.9	-63.2	-13.0	50.2
1289.9625	V	50.82	-49.4	6.9	13.8	30.2	-58.9	-13.0	45.9
1289.9625	H	46.3	-54.3	6.9	13.8	30.2	-63.8	-13.0	50.8
2149.9375	V	50.1	-43.5	9.1	17.4	28.8	-45.8	-13.0	32.8
2149.9375	H	52.3	-41.1	9.1	17.4	28.8	-43.4	-13.0	30.4

Test results:

Complies.

- All detected emissions are reported.
- The worst case emission is 2149.9375 MHz at -43.4dBm.
- The spectrum was searched from the lowest frequency generated in the DUT up to the 10th harmonic of the fundamental frequency.
- The DUT was characterized on 3 orthogonal axis.

Sign-off


I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.





Glen Westwell
Lab Manager
Celltech Labs Inc.

6/28/2013

Date

Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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	Test Report Serial No.:	250613-T1223-E-900	Report Issue Date:	6/28/2013	 Test Lab Certificate No. 2470.01
	Measurement Date(s):	May 2-June 25, 2013	Report Revision No.:	Revision 1.0	
	FCC Rule Part(s):	47 CFR §2, §90	FCC Test Firm Reg. No.:	Accredited	
	IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1	


9.0 RADIATED SPURIOUS EMISSIONS

References	
Normative Reference Standard	FCC CFR 47 §15.209; IC RSS-210, RSS-GEN
Procedure Reference(s)	<p>The procedure used was ANSI C63.4-2003. The frequency was scanned from the lowest radio frequency generated to the 10th harmonic of the fundamental. Detected emissions were maximized by rotating the table 360 degrees, to produce the maximum signal strength. The DUT was characterized on three (3) orthogonal planes. Worst case data has been recorded.</p>
	RSS-Gen 4.9

Limits											
§15.209 RSS-Gen 6.1	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>30-88</td> <td>40.0 dBuV/m measured @ 3 meters</td> </tr> <tr> <td>80-216</td> <td>43.5 dBuV/m measured @ 3 meters</td> </tr> <tr> <td>216-960</td> <td>46.0 dBuV/m measured @ 3 meters</td> </tr> <tr> <td>Above 960</td> <td>54.0 dBuV/m measured @ 3 meters</td> </tr> </tbody> </table>	Frequency (MHz)	Limits	30-88	40.0 dBuV/m measured @ 3 meters	80-216	43.5 dBuV/m measured @ 3 meters	216-960	46.0 dBuV/m measured @ 3 meters	Above 960	54.0 dBuV/m measured @ 3 meters
	Frequency (MHz)	Limits									
	30-88	40.0 dBuV/m measured @ 3 meters									
	80-216	43.5 dBuV/m measured @ 3 meters									
	216-960	46.0 dBuV/m measured @ 3 meters									
Above 960	54.0 dBuV/m measured @ 3 meters										

Environmental conditions	
Temperature	25 +/- 5 °C
Humidity	40 +/- 10 %
Barometric Pressure	101 +/- 3 kPa

Equipment list				
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE
00241	R&S	FSU 40	Spectrum Analyzer	09-Apr-15
00072	EMCO	2075	Mini-mast	n/a
00073	EMCO	2080	Turn Table	n/a
00071	EMCO	2090	Multi-Device Controller	n/a
00030	HP	83017A	Microwave system amplifier	n/a
00050	Chase	CBL-6111A	Bilog Antenna	03 May14
00034	ETS	3115	Double Ridged Guide Horn	06 Dec 14
00085	EMCO	6502	Active Loop Antenna	03 Jun 15

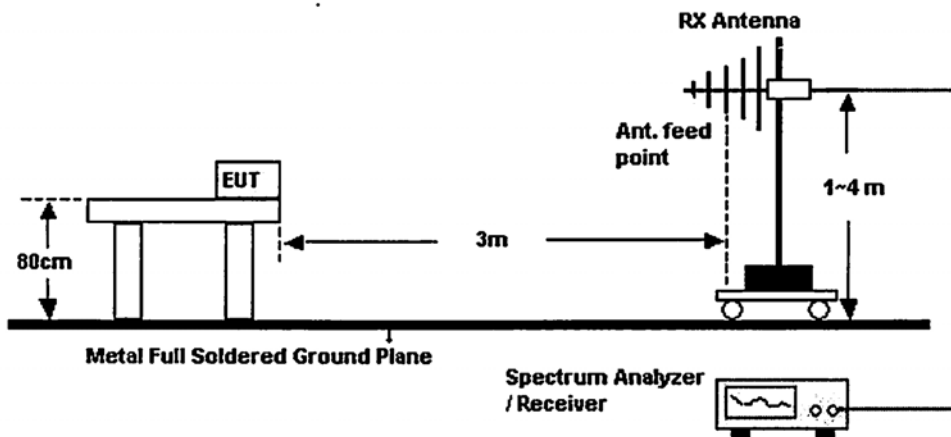
Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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Measurement equipment setup

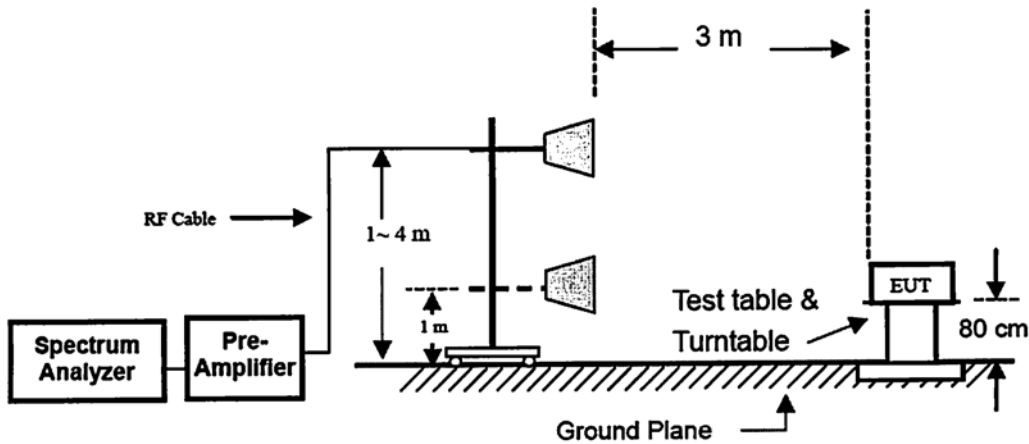
MEASUREMENT EQUIPMENT CONNECTIONS	For the field strength measurements, the measurement equipment was connected as shown in E.6. Various antenna types may be required to cover the applicable frequency range tested. The ranges in which each antenna was used are shown below.			
	Frequency Range	RX Antenna	TX Antenna	
	9kHz – 30Mhz	Active Loop	N/a	
	30 MHz - 1GHz	Bilog	N/a	
	1 GHz - 18 GHz	ETS 3115 Horn	N/a	
MEASUREMENT EQUIPMENT SETTINGS	For the spurious out-of-band emissions, the spectrum analyzer was set to the following settings:			
	Measurement	RBW	VBW	Detector
		kHz	kHz	
	< 30 MHz	10	100	Peak
	< 1 GHz	100	300	Peak
	> 1 GHz	1000	3000	Peak
	<ul style="list-style-type: none"> The spectrum was searched from the lowest radio frequency generated by the EUT to the 10th harmonic of the fundamental. All detected emissions are reported. The DUT was characterized on 3 orthogonal axis, worst case config. Reported. 			

Setup drawing(s)

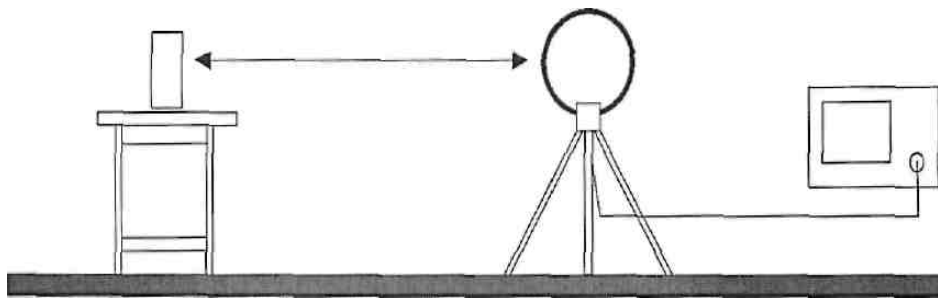
30 MHz – 1 GHz




Measurement Frequency above 1GHz



Active Loop Ant. <30 MHz



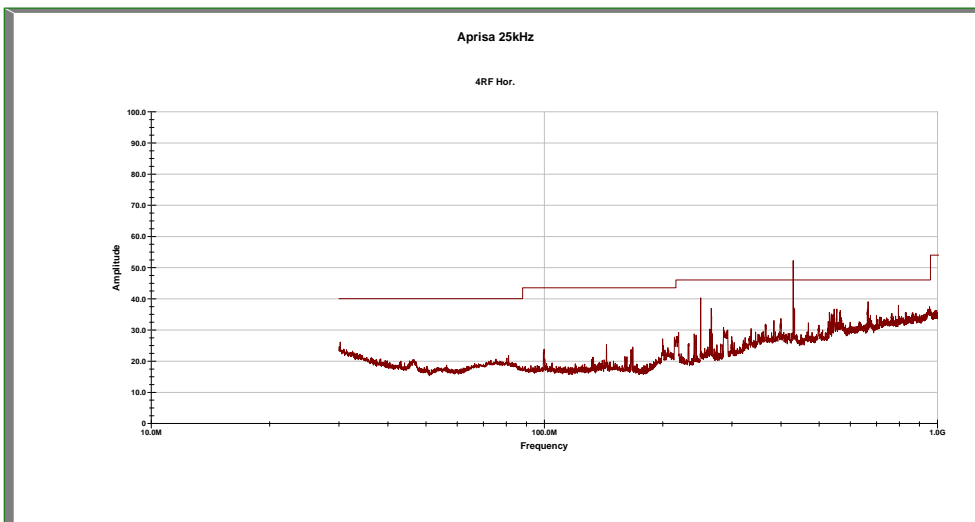
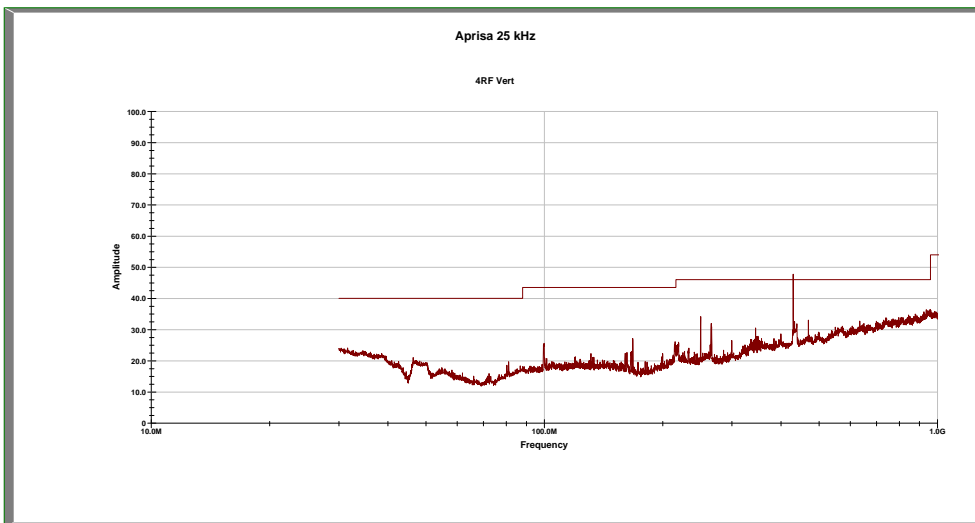
	Test Report Serial No.:	250613-T1223-E-900	Report Issue Date:	6/28/2013	 Test Lab Certificate No. 2470.01
	Measurement Date(s):	May 2-June 25, 2013	Report Revision No.:	Revision 1.0	
	FCC Rule Part(s):	47 CFR §2, §90	FCC Test Firm Reg. No.:	Accredited	
	IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1	


Test Data	
Normative Reference Standard	FCC CFR 47 §15.209; IC RSS-210, RSS-GEN



Radiated Spurious Emissions.

30MHz – 1GHz Search

- Peak detector used
- The spectrum was searched from the lowest frequency generated in the DUT up to the 10th harmonic of the fundamental frequency.
- The DUT was characterized on 3 orthogonal axis.
- Detected emissions are reported.
- Highest peak emission displayed is the carrier at 429.9875 MHz.



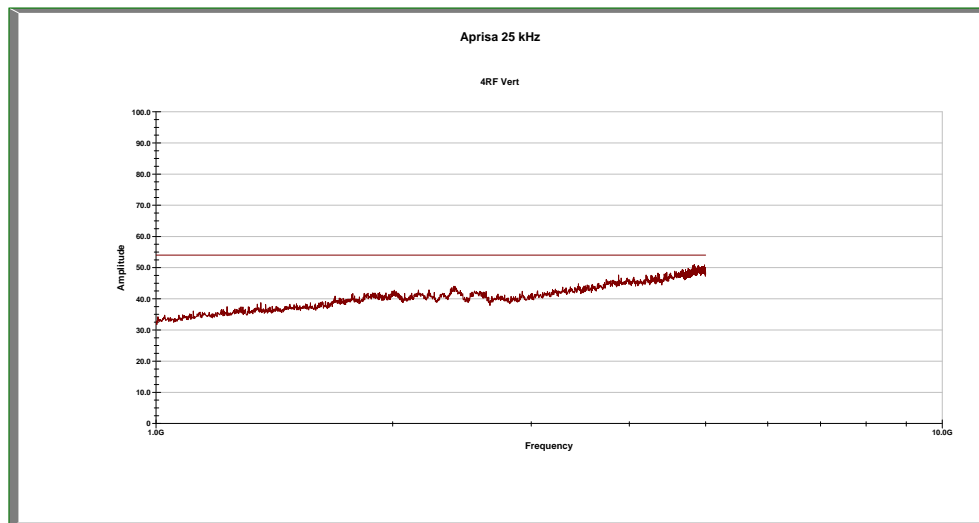
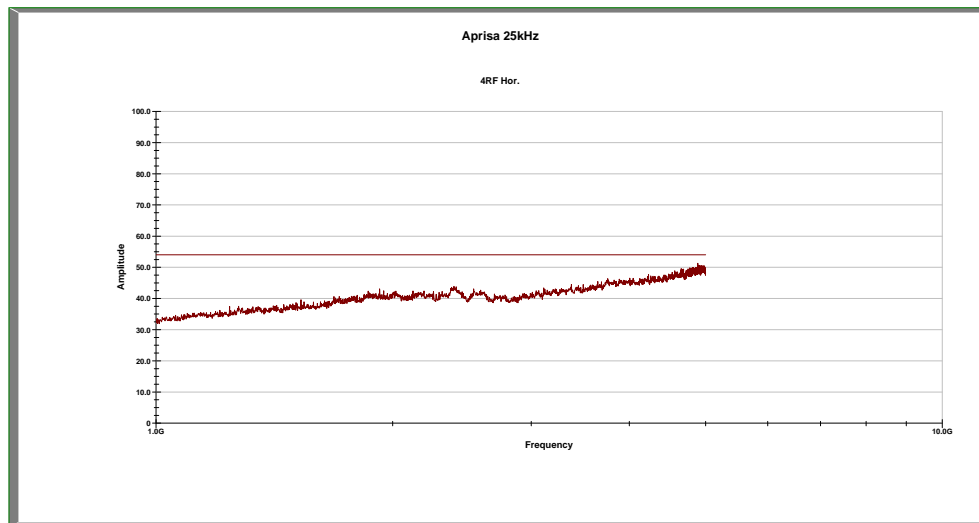
Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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	Test Report Serial No.:	250613-T1223-E-900	Report Issue Date:	6/28/2013	 Test Lab Certificate No. 2470.01
	Measurement Date(s):	May 2-June 25, 2013	Report Revision No.:	Revision 1.0	
	FCC Rule Part(s):	47 CFR §2, §90	FCC Test Firm Reg. No.:	Accredited	
	IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1	



Radiated Spurious Emissions Cont.

1GHz – 5GHz Search

- Peak detector Used
- Emissions were measured at 1m and corrected with a 9.54dB correction factor.



Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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	Test Report Serial No.:	250613-T1223-E-900	Report Issue Date:	6/28/2013	 Test Lab Certificate No. 2470.01
	Measurement Date(s):	May 2-June 25, 2013	Report Revision No.:	Revision 1.0	
	FCC Rule Part(s):	47 CFR §2, §90	FCC Test Firm Reg. No.:	Accredited	
	IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1	

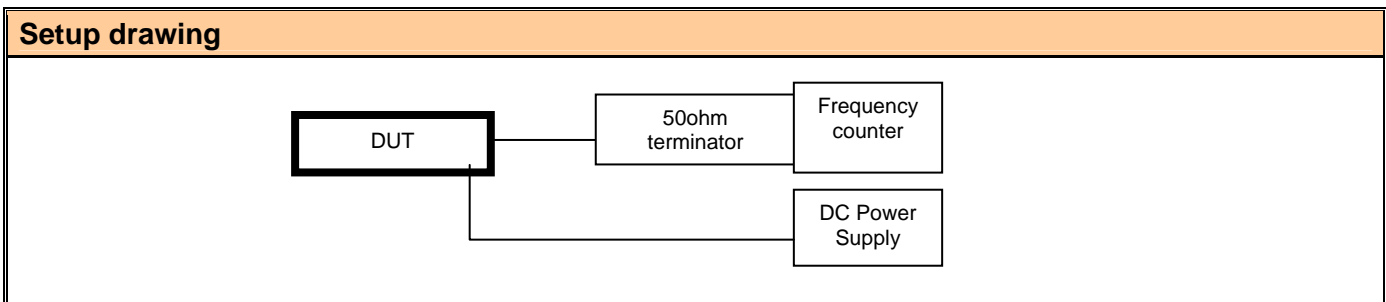
10.0 FREQUENCY STABILITY


References	
Normative Reference Standard	FCC CFR 47 §2.1055, §90.213; IC RSS-119
Procedure Reference / Description	§2.1055(a)(2) The frequency stability shall be measured with variation of ambient temperature as follows: (1) From -40° to +70° centigrade.


Limits	
§90.213 & RSS-119	90.213 - 421-512 MHz, 2.5ppm, RSS-119 - 406.1-430 MHz & 450-470 MHz, 2.5ppm

Environmental conditions	
Temperature	25 +/- 5 °C
Humidity	40 +/- 10 %
Barometric Pressure	101 +/- 3 kPa

Equipment list				
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE
na	ESPEC	ECT-2	Heater/Refrigerator	na
0003	HP	53181A	Frequency Counter	02-May-14
na	HP	E3611A	DC Power Supply	na
00234	VWR	na	Temperature Humidity Monitor	20-July-14



Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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	Test Report Serial No.:	250613-T1223-E-900	Report Issue Date:	6/28/2013	 Test Lab Certificate No. 2470.01
	Measurement Date(s):	May 2-June 25, 2013	Report Revision No.:	Revision 1.0	
	FCC Rule Part(s):	47 CFR §2, §90	FCC Test Firm Reg. No.:	Accredited	
	IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1	

Test results: Complies

Temperature (degrees C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Deviation (Hz)	Frequency tolerance (ppm)
-40	429 987 500	429 987 171	329	0.765
-30	429 987 500	429 987 100	400	0.93
-20	429 987 500	429 987 076	424	0.986
-10	429 987 500	429 987 070	430	0.1
0	429 987 500	429 987 124	76	0.874
10	429 987 500	429 987 307	193	0.449
20 -end point	429 987 500	429 987 380	120	0.279
20	429 987 500	429 987 381	119	0.277
20 +end point	429 987 500	429 987 381	119	0.277
30	429 987 500	429 987 372	128	0.298
40	429 987 500	429 987 301	199	0.463
50	429 987 500	429 987 266	234	0.544
60	429 987 500	429 987 209	291	0.677
70	429 987 500	429 987 169	331	0.77

Sign-off


I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.



Glen Westwell
Lab Manager
Celltech Labs Inc.

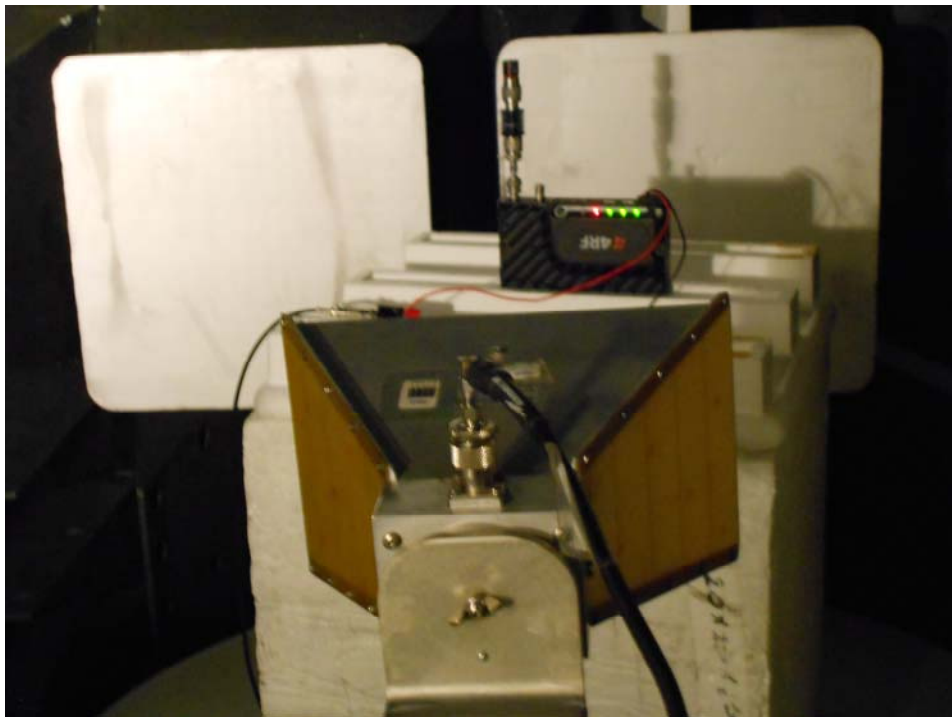
6/28/2013

Date

Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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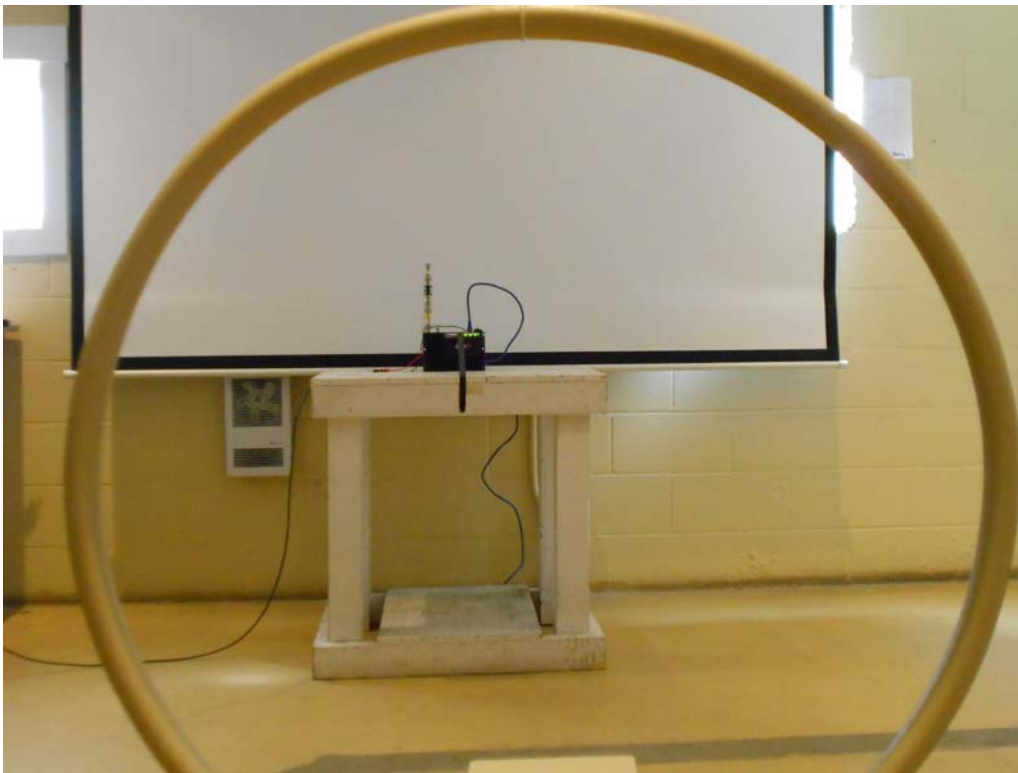
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FCC Rule Part(s):	47 CFR §2, §90	FCC Test Firm Reg. No.:	Accredited
IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1

11.0 TEST SET-UP PHOTO'S



Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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Test Report Serial No.:	250613-T1223-E-900	Report Issue Date:	6/28/2013
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FCC Rule Part(s):	47 CFR §2, §90	FCC Test Firm Reg. No.:	Accredited
IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1





Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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Test Report Serial No.:	250613-T1223-E-900	Report Issue Date:	6/28/2013
Measurement Date(s):	May 2-June 25, 2013	Report Revision No.:	Revision 1.0
FCC Rule Part(s):	47 CFR §2, §90	FCC Test Firm Reg. No.:	Accredited
IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1



Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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	Test Report Serial No.:	250613-T1223-E-900	Report Issue Date:	6/28/2013	 Test Lab Certificate No. 2470.01
	Measurement Date(s):	May 2-June 25, 2013	Report Revision No.:	Revision 1.0	
	FCC Rule Part(s):	47 CFR §2, §90	FCC Test Firm Reg. No.:	Accredited	
	IC Standard(s):	RSS-119, RSS-Gen	IC Test Site No.:	IC 3874A-1	

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Applicant:	4RF Corp.	FCC ID:	UIPSRN0400025A	IC:	6772A-SRN400	
DUT Type:	P-to-Mp Transmitter	DUT	Aprisa SR25 kHz	Freq.:	400-470 MHz	
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