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TEST REPORT

REGULATION : **FCC Part 22, 74, 90**
RSS-119 Issue 12

Applicant	Testing Laboratory
JVCKENWOOD Corporation	Intertek Japan K.K. Kashima Laboratory
	URL: http://www.japan.intertek-etlsemko.com
1-16-2, Hakusan, Midori-ku, Yokohama-shi	(No.12 Test site)
Kanagawa, 226-8525 Japan	298-6 Sada, Kashima, Ibaraki
Tel.: +81 45 939 6254	314-0027 Japan
Fax.: +81 45 939 6261	Tel. +81 299 82 8464

Equipment type	UHF REPEATER
Trademark	KENWOOD
FCC Model(s)	NXR-1800-E2
HVIN (ISED)	NXR-1800-E2
PMN (ISED)	NXR-1800-E2
Serial No.	015
FCC ID	K44513201
ISED CN and UPN	282F-513201
Test Result	Complied
Report Number	23020247JKA-001
Original Issue Date	April 04, 2023

Approved by

H. Kosemura

Hideaki Kosemura
[Technical Manager]

Tested by

K. Wagatsuma

Koichi Wagatsuma
[Engineer]

NVLAP TESTING
NVLAP LAB CODE 600233-0

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

NVLAP accreditation are valid for RSS-119 .
FCC Part90, FCC Part74 and FCC Part22 are outside the NVLAP scope.
This report contains data that are not covered by the NVLAP accreditation.

ilac-MRA VLAC Lab Accreditation
VLAC-008

VLAC accreditation are valid for FCC Part90, FCC Part74 and FCC Part22.
RSS-119 are outside the VLAC scope.
This report contains data that are not covered by the VLAC accreditation.

In Accordance with FCC Rules and Regulations, Volume II, Part 2 and 90

Sub-part 2.1033

Applicant and Manufacture Information		
APPLICANT		
Company	:	JVCKENWOOD Corporation
Address	:	1-16-2, Hakusan, Midori-ku, Yokohama-shi Kanagawa, 226-8525 Japan
Contact Person	:	Kazuyoshi Akaike
MANUFACTURER		
Company	:	JVCKENWOOD Corporation
Address	:	1-16-2, Hakusan, Midori-ku, Yokohama-shi Kanagawa, 226-8525 Japan
(c)(2) FCC ID		
FCC ID	:	K44513201
Model number	:	NXR-1800-E2
Serial number	:	015
Instruction Manual(S)		
Instruction manual(s)	:	Please refer to attached Exhibits F
Type of Emission		
Emission Designation	:	16K0F3E(Wide) 11K0F3E(Narrow) 7K60FXD(Narrow) / 7K60FXE(Narrow) / 7K60F7E(Narrow) / 7K60F7D(Narrow) / 7K60F7W(Narrow) / 7K60FXW(Narrow) 8K30F1E(Narrow) / 8K30F1D(Narrow) / 8K30F7W(Narrow) 4K00F1E(Very Narrow) / 4K00F1D(Very Narrow) / 4K00F7W(Very Narrow) 4K00F2D(Very Narrow)
Frequency range		
Frequency Range	:	FCC:406.1 to 470 MHz RSS:406.1 to 430 MHz, 450 to 470 MHz
Power Rating		
Output Power	:	1 to 40 W
Type	:	Continuously Variable
Maximum Power Rating		
Output Power	:	40 W
Voltages & currents in all elements in final RF stage, including final transistor or solid-state device		
Collector Current, A	:	11.0 A Maximum
Collector Voltage, Vdc	:	DC 13.2 V (10.8 to 15.6 V)
Supply Voltage, Vdc	:	13.2 Vdc
Other Information		
Number of Channel	:	32 channels max.
Maximum Deviation	:	± 5 kHz (16K0F3E), ± 2.5 kHz (11K0F3E)
Frequency Stability	:	0.5 ppm
Antenna Impedance	:	50 Ω Norminal
Note		
This information was provided by the Applicant or customer. Intertek doesn't take any responsibility for the information.		

TABLE OF CONTENTS

SECTION 1. GENERAL INFORMATION

TEST PERFORMED

Location	Kashima No.12 Test Site		
EUT Received	March 03, 2023		
Date of Test	March 16, 2023	to	March 28, 2023
Standard Applied	FCC Part 22, 74, 90 RSS-119 Issue 12		
Measurement Method	ANSI/TIA-603-E-2016 / RSS-119 Issue 12(2015), RSS-Gen Issue 5, A2(2021) ANSI C63.26 2015		
Deviation from Standard(s)	Not applicable		

QUALIFICATIONS OF TESTING LABORATORY (Kashima Lab.)

ACCREDITATION	SCOPE	LAB. CODE	Remarks
VLAC	Wireless / EMC Testing	VLAC-008-1	JAPAN
NVLAP	Wireless Testing	600233-0	USA
FCC	Wireless / EMC Testing	JP0008	USA
ISED	Wireless Testing	JP0008(CABID)	Canada

ABBREVIATIONS

EUT	Equipment Under Test	DoC	Declaration of Conformity
AMN	Artificial Mains Network	ISN	Impedance Stabilization Network
LISN	Line Impedance Stabilization Network	Q-P	Quasi-peak
AMP	Amplifier	AVG	Average
ATT	Attenuator	PK	Peak
ANT	Antenna	Cal	Calibration
BBA	Broadband Antenna	N/A	Not applicable or Not available
DIP	Dipole Antenna	LCD	Liquid-Crystal Display
AE	Associated Equipment	4LEVEL FSK	4LEVEL Frequency Shift Key
GMSK	Gaussian Maximum Shift Key	CW ID	Continuously Repeating bit stream
FM	Frequency Modulation	C4FM	Constant envelope 4 Level FM
PTT	Push to Talk	AFC	Automatic frequency control

Revision Summary

Revised Date	Section	Description of Changes

SECTION 2. SUMMARY OF TEST RESULT

TEST ITEM	FCC Part22	Part74	Part90		ISED RSS-119	RESULTS	Comments
Carrier Output Power (Conducted)	-	74.461	-	2.1046 (a)	5.4	**PASS**	
Unwanted Emissions (Transmitter Conducted)	22.359	-	90.210	2.1051	5.8	**PASS**	
Field Strength of Spurious Radiation	22.359	-	90.210	2.1053 (a)	5.8	**PASS**	
Emission Masks (Occupied Bandwidth)	22.359	74.462	90.210	2.1049 (c) (1)	5.5	**PASS**	
Transient Frequency Behavior	-	-	90.214	-	5.9	**PASS**	
Audio Low Pass Filter (Voice Input)	-	-	-	2.1047 (a)	-	**PASS**	
Audio Frequency Response	-	-	-	2.1047 (a)	-	**PASS**	
Modulation Limiting	-	-	-	2.1047 (b)	-	**PASS**	
Frequency Stability (Temperature Variation)	22.355	74.464	90.213 (a)	2.1055 (a) (1)	5.3	**PASS**	
Frequency Stability (Voltage Variation)	22.355	74.464	90.213 (a)	2.1055 (d) (1)	5.3	**PASS**	
Receiver Spurious Emissions	-	-	-		RSS-Gen 7.1	**PASS**	
Certification required (FCC Part 90.203(j)(3))	-	-	90.203 (j)(3)	-	-	**Complied**	
Certification required (FCC Part 90.203(j)(4))	-	-	90.203 (j)(4)	-	-	**Complied**	
Certification required (FCC Part 90.203(j)(5))	-	-	90.203 (j)(5)	-	-	**Complied**	
Certification required (FCC Part 90.203(e))	-	-	90.203 (e)	-	-	**Complied**	
99% Occupied Bandwidth	-		-		5.5	**PASS**	

Limitation on Results

The test result of this report is effective equipment under test itself and under the test configuration descried on the report.
This test report dose not assure that whether the test result taken in other testing laboratory is compatible or reproducible to the test result on this report or not.

Note:
As for the FCC Part 15 Subport B-Unintentional Radiators, the EUT has been measured and declared as Supplier's Declaration of Conformity (SDoC) by JVCKENWOOD Corporation.

SECTION 3. TEST AND MEASUREMENT DATA

All test and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J and Industry Canada as the following individual parts:

FCC Rule	Test Item	Tested
Part 22	**Non Cellular**	**YES**
Part 74	**Experimental Radio Auxiliary , Special Broadcast and Other Program Distributional Services**	**YES**
Part 90	**Private Land Mobile radio Services**	**YES**

IC Rule	Test Item	Tested
RSS-119	**Radio Ttansmitters and Receivers Operating in the Land Mobile and Fixed Services in the Frequency Range 27.4-960 MHz**	**YES**
RSS-Gen	**General Requirements for Conpliance of Radio Apparatus**	**YES**

SECTION 4. INFORMATION ABOUT EUT AND SUPPORT EQUIPMENT(S)

This information was provided by the Applicant or customer.
Intertek doesn't take any responsibility for the information.

4.1 List of System Configuration

Symbol	Item	Model No.	Serial No.	Manufacture	Remarks
A	UHF REPEATER	NXR-1800-E2	015	JVCKENWOOD Corporation	EUT

Power Ratings of EUT :	DC 13.2 V (10.8 to 15.6 V)	11.0 A Maximum
Power Supply :	13.2 Vdc	
Condition of Equipment	Proto type	
Type	Base Fixed	
Suppression Devices	No Modifications by the laboratory were made to the device	

4.2 Port(s)/Connector(s)

Port Name	Connector Type	Connector Pin	Remarks
LAN	RJ-45	8pin	
ACC	USB Type-A	4 pin	
RF Antenna TX	N	2 pin	
RF Antenna RX	BNC	2 pin	
Control I/O	D-sub	25 pin	

4.3 Highest Frequency Oscillator(s)/Crystal(s)

Operating Frequency	Board Name	Remarks
1400 MHz	CPU	
470 MHz	Radio	

SECTION 5. SUPPORT EQUIPMENT

The EUT was supported by the following equipment during the test.

Example: Case of Section 10.10Test

Symbol	Item	Model No.	Serial No.	Manufacture	FCC ID	Remarks
B	USB ADAPTER	AU-MMSA	None	SABRENT	N/A	See Note
C	Terminator	None	None	JVCKENWOOD	N/A	See Note
D	Terminator	None	None	JVCKENWOOD	N/A	See Note
E	HUB	SF100D-05 v2	PSJ16070C88	CISCO	DoC	See Note
F	AC ADAPTER	MU06-6120050-A1	0432-011X000	LEADER ELECTRONICS INC.	N/A	See Note
G	DC Power Supply	PMC35-3A	LE000716	KIKUSUI	N/A	
H	Terminator	UT-01	None (ATS016628)	TME	N/A	
I	Terminator	UT-01	None(EMI121)	TME	N/A	
J	Controller	None	None	JVCKENWOOD	N/A	See Note

Supplied Power:

F, G	AC	100V,60Hz

Note: This information was provided by the Applicant or customer.
Intertek doesn't take any responsibility for the information.

SECTION 6. USED CABLE(S)

The following cable(s) was used for the test.

Example: Case of Section 10.10Test

No.	Name	Length (m)	Shield	Metal Connector	Ferrite core	Remarks
1	LAN cable	2.00	No	No		
2	D-Sub cable	1.60	Yes	Yes		See Note
3	USB cable	2.00	Yes	Yes		
4	DC cable	4.00	No	No	Removable x 1	See Note
5	DC cable	0.25	No	No	Removable x 2	See Note
6	Power cable for DC Power Supply (AC)	4.00	No	No		

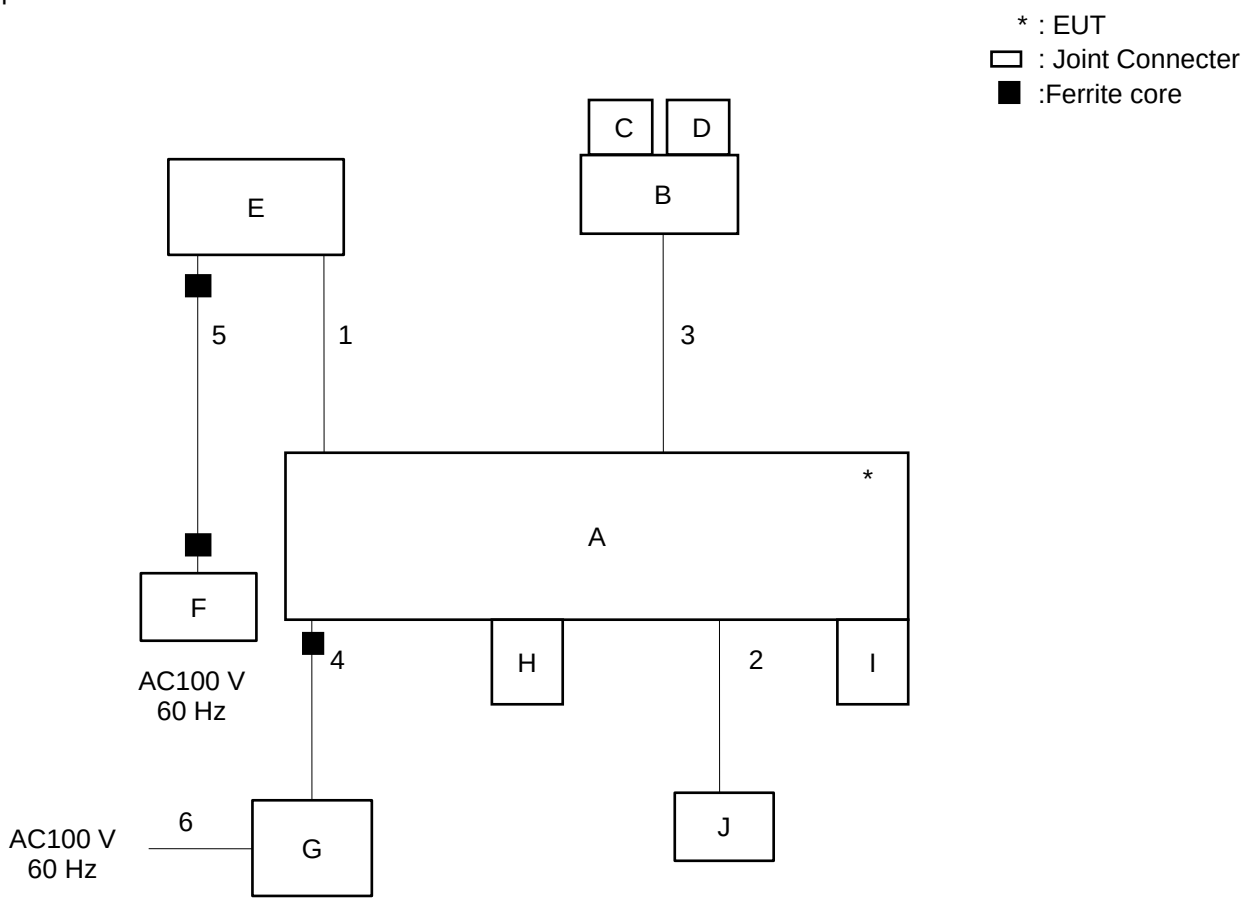
Note: This information was provided by the Applicant or customer.
Intertek doesn't take any responsibility for the information.

One Ferrite cores of No.4 cable is supplied together with EUT(A).
Two Ferrite cores of No.5 cable is supplied together with HUB(E).

SECTION 7. TEST CONFIGURATION

Details of Configuration and Connection

Example: Case of Section 10.10Test



SECTION 8. OPERATING CONDITION

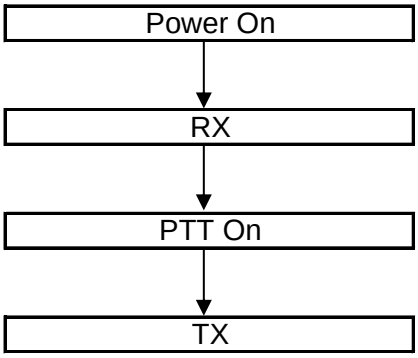
The EUT was operated under the following condition during the test.

8.1 Operating Condition

The test was carried out under Transmit mode.
(FCC: 406.15 MHz, 429.95 MHz, 469.95 MHz)
(RSS: 406.15 MHz, 429.95 MHz, 469.95 MHz)
(High Power : 40W, Low Power : 1W)

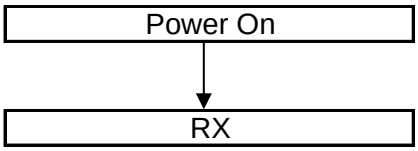
8.2 Operating Flow [Transmit mode]

Following operations were performed continuously.



8.3 Operating Flow [Receive mode]

Following operations were performed continuously.



SECTION 9. MEASUREMENT UNCERTAINTY

Carrier Output Power (Conducted)		U_{lab}	Utia-603-e	
		+/- 0.18dB (k = 2)	+/- 0.59	dB
Unwanted Emissions (Transmitter Conducted)				
		+/- 1.55 dB (k = 2)	+/- 1.1	dB
Field Strength of Spurious Radiation				
		+/- 3.60dB (k = 2)	+/- 3.3	dB
Emission Masks (Occupied Bandwidth)				
		+/- 0.87dB (k = 2)	+/- 2.1	dB
Transient Frequency Behavior				
		+/- 2.28% (k = 2)	+/- 21.6	%
Audio Low Pass Filter (Voice Input)				
		+/- 0.21dB (k = 2)	+/- 1.2	dB
Audio Frequency Response				
		+/- 0.12dB (k = 2)	+/- 1.2	dB
Modulation Limiting				
		+/- 0.99% (k = 2)	+/- 1.0	%
Frequency Stability (Temperature Variation)				
		+/- 9.93Hz (k =2)	+/-34.2	Hz
Frequency Stability (Voltage Variation)				
		+/- 9.93Hz (k =2)	+/-34.2	Hz
Receiver Spurious Emissions		U_{lab}	Ucispr	
30-1000MHz		+/- 5.63dB (k = 2)	+/- 6.3	dB
abobe 1GHz	1-6GHz	+/- 5.06dB (k = 2)	+/- 5.2	dB
	6-40GHz	+/- 5.41dB (k = 2)	+/- 5.5 dB (6-18 GHz), Nil (18-40 GHz)	
Bandwidth				
		+/- 1.00% (k = 2)	-	

SECTION 10. TEST DATA

10.1 Carrier Output Power (Conducted)

REGULATIONS	:	FCC Part 2 Section 1046 (a) RSS-119 Section 5.4
TEST METHOD/GUIDE	:	ANSI/TIA-603-E Section 2.2.1.2 / RSS-119 Section 4.1 ANSI C63.26 Section 5.2

Test Procedure

1 The EUT and test equipment were set up as shown on the following page.
2 The EUT was conducted to a resistive coaxial attenuator of normal load impedance.
RF Power (dBm) = Power Meter reading (dBm) + Attenuator Loss (dB) + Cable Loss (dB)
RF Power (W) = 10^(RF Power (dBm)/10)/1000
3 Modulate the transmitter with a 2.5 kHz sine wave at an input Level of 16 dB greater than that necessary to produce 50 % of rated system deviation.(Only as for the test of RSS)

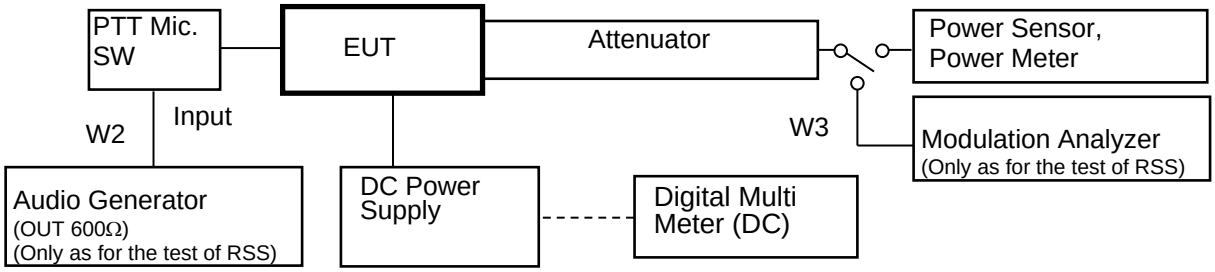
Measuring Equipments

No.	Equipment	Manufacture	Model No.	Serial No.	Cal. Interval	Effective period
1	Power Meter	Hewlett Packard	E4418B	GB38410265	1Y	Sep. 15, 23
2	Power Sensor	Hewlett Packard	8482A	US37292237	1Y	Sep. 15, 23
3	Attenuator (20dB)	Aeroflex/Wenshel	66-20-34	BY4357	1Y	Sep. 25, 23
4	Attenuator (30dB)	Weinschel	WA-29-30-34	8923	1Y	Sep. 25, 23
5	Modulation	Hewlett Packard	8901B	3403A04852	1Y	Jan. 02, 24
6	Audio Generator	Anritsu	MG443B	M70150	1Y	Jun. 12, 23
7	DC Power Supply	Daiichi denpa kogyo	GZV4000	90290931	None	None
8	Digital Multi Meter	FLUKE	8846A	9642018	1Y	Jun. 30, 23
9	JIG	HP	EliteBook 2170p	JPA4139KMG	None	None

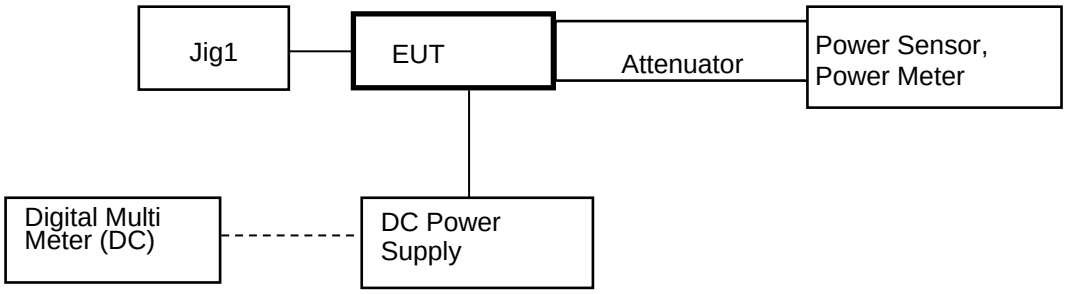
Measuring Cables

No.	Cable	Manufacturer	Model No.	Serial No.	Cal. Interval	Effective period
W2	Balance Cable	Nicoon	3D-2V	KSR00092	1Y	Sep. 21, 23
W3	Coaxial Cable	Pacific custom	RG-58 C/U	AM90C03	1Y	Feb. 13, 24

Measuring Equipment Configuration



<DMR and CW ID Modulation Case>



Test Results

	Test date	Mar. 16, 2023	
	Location	Kashima No.12 Test Site	
	temperature	25.9	[degree C]
	Humidity Variation	38.0	[%]
	Atmospheric Pressure	102.1	[kPa]
	Test Engineer	Koichi Wagatsuma	

Test was carried out for all the Authorized Bandwidth.
State the worst case (below).

No.	Frequency (MHz)	Band	Setting	RF Power (W)
1	406.15 (FCC/RSS)	Low	High Power	40
2	429.95 (FCC/RSS)	Middle	High Power	40
3	469.95 (FCC/RSS)	High	High Power	40
4	406.15 (FCC/RSS)	Low	Low Power	1
5	429.95 (FCC/RSS)	Middle	Low Power	1
6	469.95 (FCC/RSS)	High	Low Power	1

RF Power: Maximum reading

10.2 Unwanted Emissions (Transmitter Conducted)

REGULATIONS	:	FCC Part 2 Section 1051, Part 22 Section 359, Part 90 Section 210 RSS-119 Section 5.8
TEST METHOD/GUIDE	:	ANSI/TIA-603-E Section 2.2.13.2 ANSI C63.26 Section 5.7

Test Procedure

1 The EUT and test equipment were set up as shown on the following page.
2 Modulate the transmitter with a 2.5 kHz sine wave at an input Level of 16 dB greater than that than that necessary to produce 50 % of rated system deviation.
3 Adjust the spectrum analyzer for the following setting:
a) RBW : 100 kHz (< 1 GHz), 1 MHz (> 1 GHz).
b) VBW : 300 kHz (< 1 GHz), 3 MHz (> 1 GHz).
c) Detector mode : Average power (FM Modulation) , Positive peak with peak hold (Digital Modulation)
4 The emissions were measured for the worst case as follows:
a) : within a band of frequencies defined by the carrier frequency plus and minus one channel.
b) : from the lowest frequency generated in the EUT and to at least the 10th harmonic of the carrier frequency, or 40 GHz, whichever is lower.

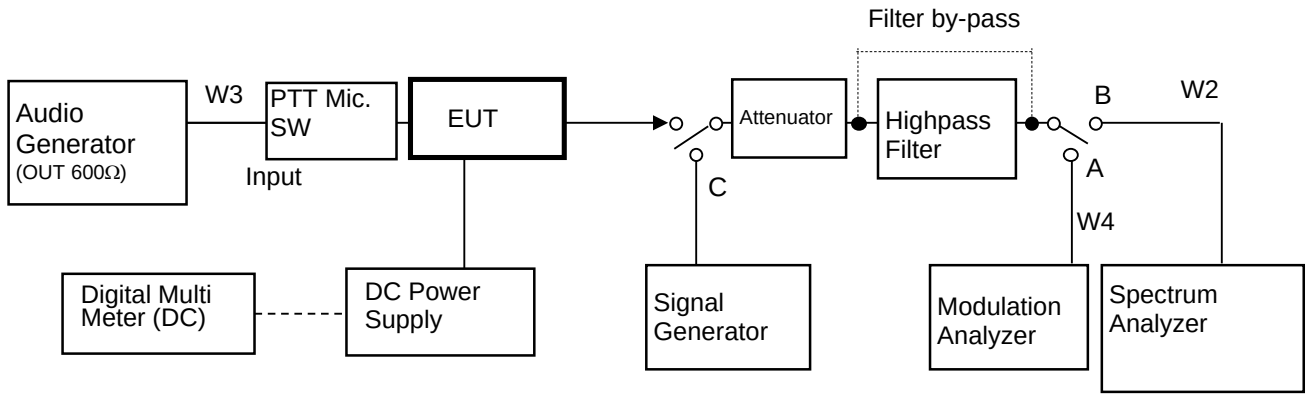
Measuring Equipments

No.	Equipment	Manufacture	Model No.	Serial No.	Cal. Interval	Effective period
1	Attenuator (20dB)	Aeroflex/Wenshel	66-20-34	BY4357	1Y	Sep. 25, 23
2	Attenuator (30dB)	Weinschel	WA-29-30-34	8923	1Y	Sep. 25, 23
3	Highpass Filter	Anritsu	MP526D	6200220657	1Y	Jun. 28, 23
4	Modulation Analyzer	Hewlett Packard	8901B	3403A04852	1Y	Jan. 02, 24
5	Signal Generator	Rohde&Schwarz	SMB 100A	105709	1Y	Jun. 05, 23
6	Audio Generator	Anritsu	MG443B	M70150	1Y	Jun. 12, 23
7	Spectrum Analyzer	Agilent	N9030A	US51350170	1Y	Jul. 10, 23
8	DC Power Supply	Daiichi denpa kogyo	GZV4000	90290931	None	None
9	Digital Multi Meter	FLUKE	8846A	9642018	1Y	Jun. 30, 23
10	JIG	HP	ProBook 430 G3	PJPNYOKL0147	None	None

Measuring Cables

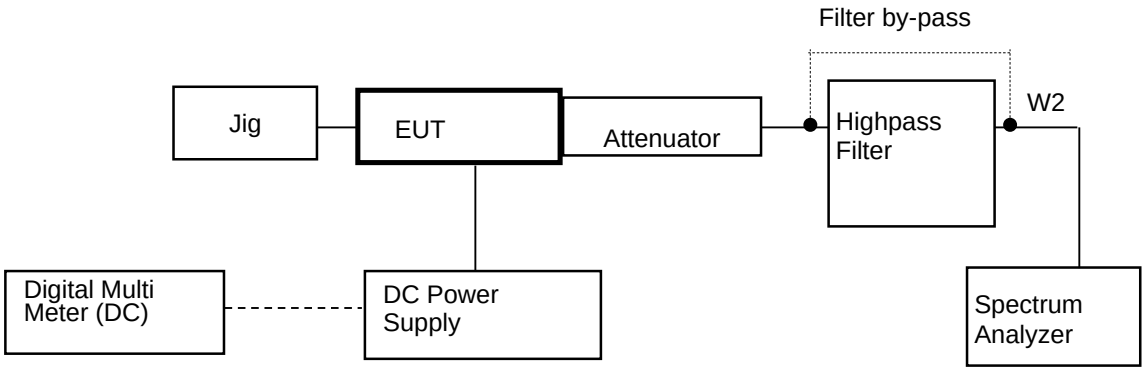
No.	Cable	Manufacture	Model No.	Serial No.	Cal. Interval	Effective period
W3	Balance Cable	Nicoon	3D-2V	KSR00092	1Y	Sep. 21, 23
W4	Coaxial Cable	Pacific custom	RG-58 C/U	AM90C03	1Y	Feb. 13, 24
W2	Coaxial Cable	Suhner	SUCOFLEX104	F0000019	1Y	Mar. 24, 23

Measuring Equipment Configuration



Note: Configuration of other Modulation test is composed without the Audio Generator.

<DMR and CW ID Modulation Case>



Test Results

Test date	Mar. 17, 2023	
Location	Kashima No.12 Test Site	
temperature	26.1	[degree C]
Humidity Variation	37.0	[%]
Atmospheric Pressure	101.6	[kPa]
Test Engineer	Koichi Wagatsuma	

Test was carried out for all the frequency band of section 10.1
State the worst case (below).

State : High Power / Authorized Bandwidth 20 kHz (16K0F3E)

No.	Tuned Frequency (MHz)	Band	Spurious Frequency (MHz)	Correct Level (dBm)	Emission Level (dBc)	Mask B Limit (dBc)	Margin (dB)
1	406.15 (FCC/RSS)	Low	812.30	-37.85	**-83.87**	-59.0	24.9
2	429.95 (FCC/RSS)	Middle	859.90	-38.20	**-84.22**	-59.0	25.2
3	469.95 (FCC/RSS)	High	939.90	-41.02	**-87.04**	-59.0	28.0
There is the margin of 20dB over except for the above points.							

Mask B Limit(dBc)=-(43+10Log(P))
Correct Level (dBm) = Substitute SG Level (dBm)
Emission Level (dBc) = Correct Level (dBm) - 10Log(P*1000)
P = Carrier Level (W)
" - " = Measurement Limit

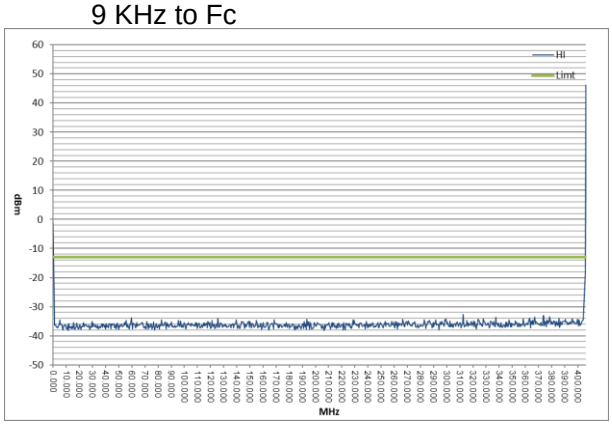
State : Low Power / Authorized Bandwidth 20 kHz (16K0F3E)

No.	Tuned Frequency (MHz)	Band	Spurious Frequency (MHz)	Correct Level (dBm)	Emission Level (dBc)	Mask B Limit (dBc)	Margin (dB)
1	406.15 (FCC/RSS)	Low	812.30	-42.72	**-72.72**	-43.0	29.7
2	429.95 (FCC/RSS)	Middle	859.90	-42.94	**-72.94**	-43.0	29.9
3	469.95 (FCC/RSS)	High	939.90	-43.88	**-73.88**	-43.0	30.9
There is the margin of 20dB over except for the above points.							

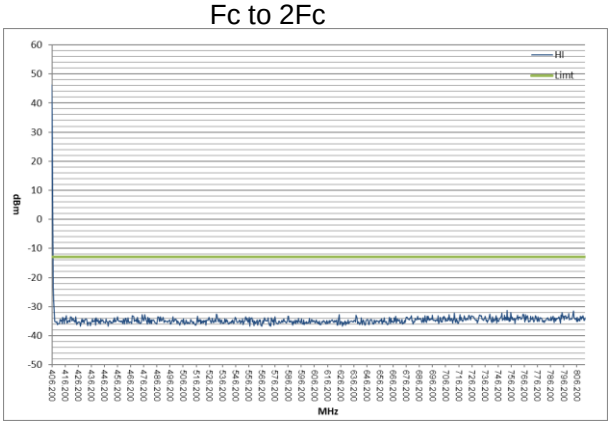
Mask B Limit(dBc)=-(43+10Log(P))
Correct Level (dBm) = Substitute SG Level (dBm)
Emission Level (dBc) = Correct Level (dBm) - 10Log(P*1000)
P = Carrier Level (W)
" - " = Measurement Limit

16K0F3E Hi Power Fc= 406.15 MHz

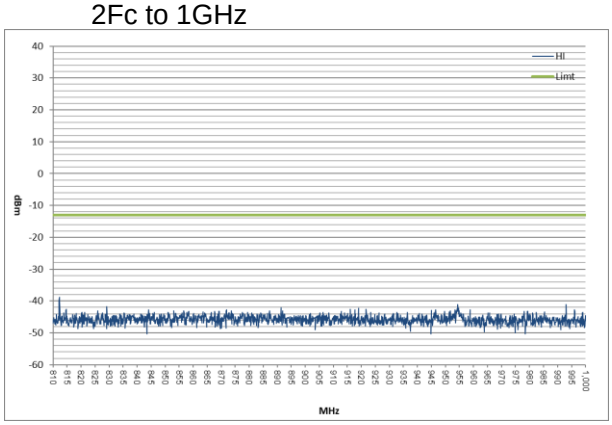
9 KHz to Fc



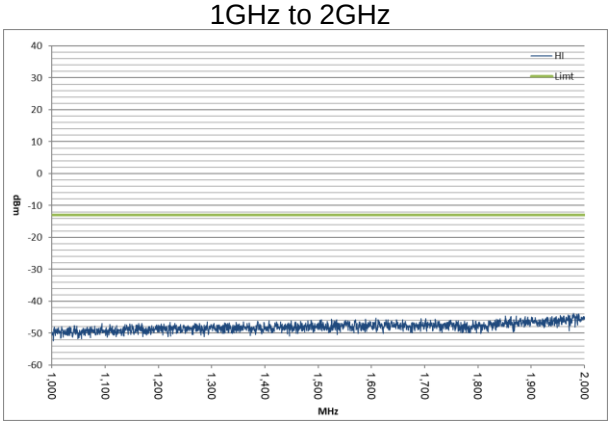
Fc to 2Fc



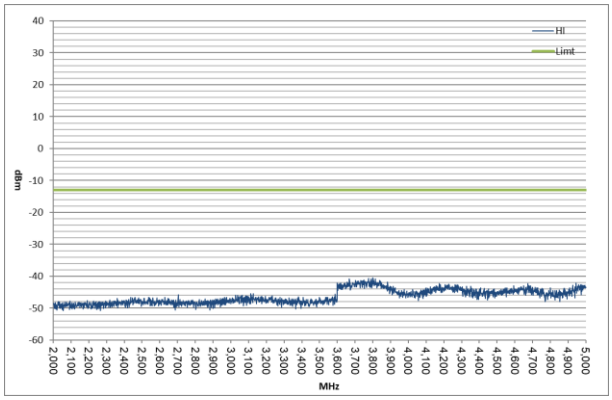
2Fc to 1GHz



1GHz to 2GHz

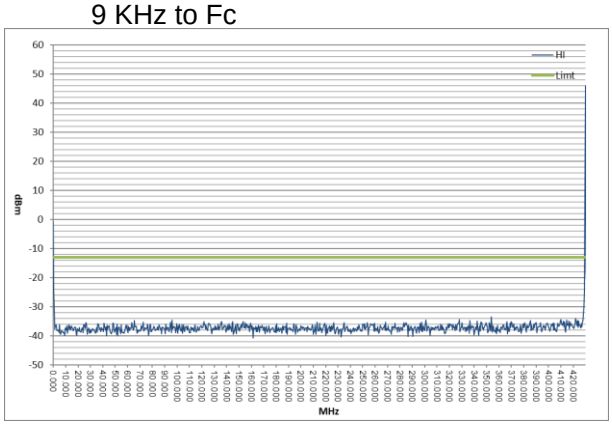


2GHz to 10Fc

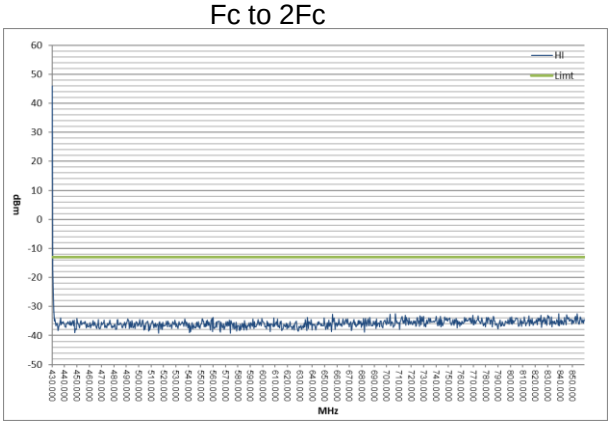


16K0F3E Hi Power Fc= 429.95 MHz

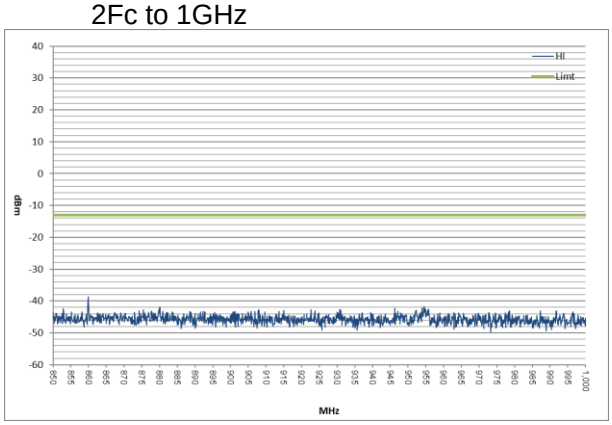
9 KHz to Fc



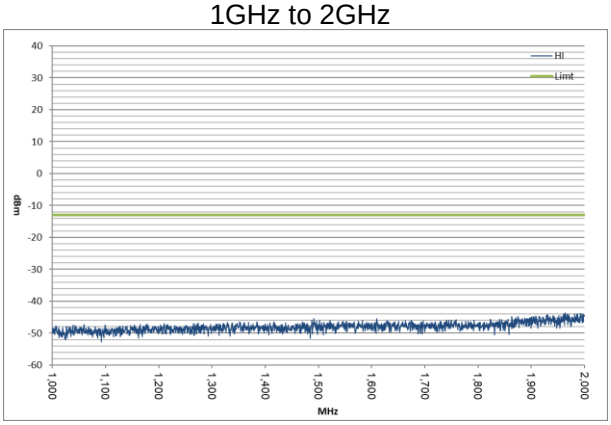
Fc to 2Fc



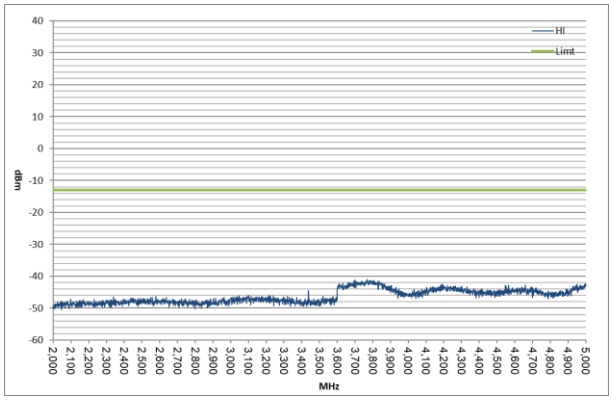
2Fc to 1GHz



1GHz to 2GHz

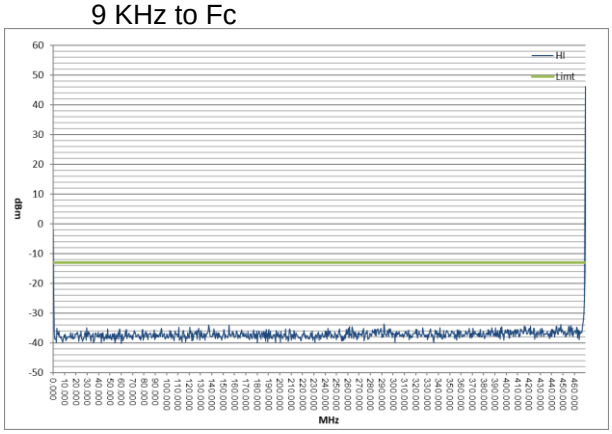


2GHz to 10Fc

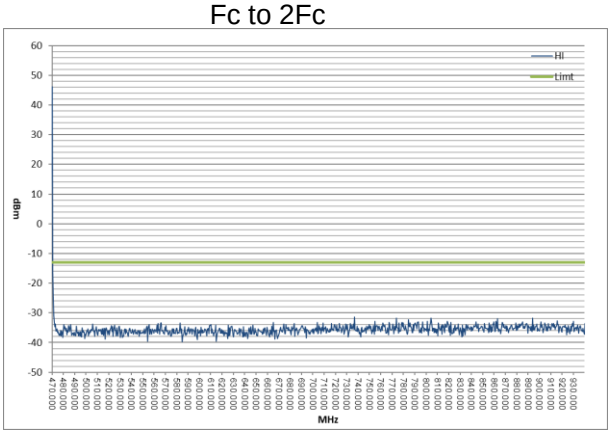


16K0F3E Hi Power Fc= 469.95 MHz

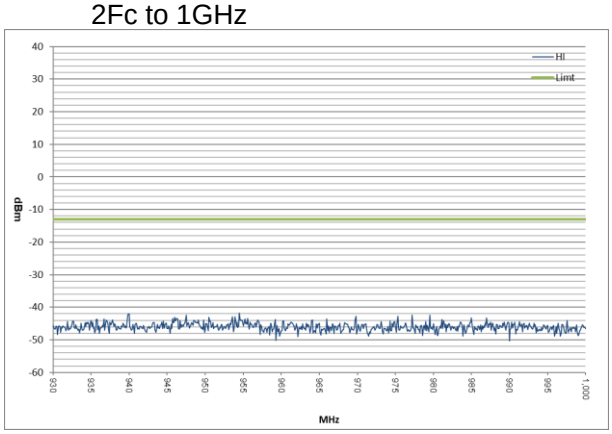
9 KHz to Fc



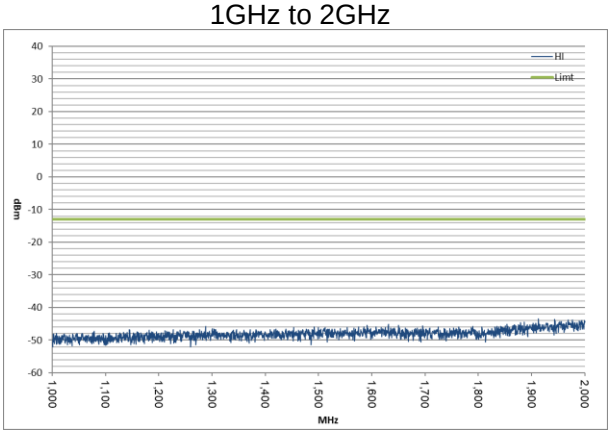
Fc to 2Fc



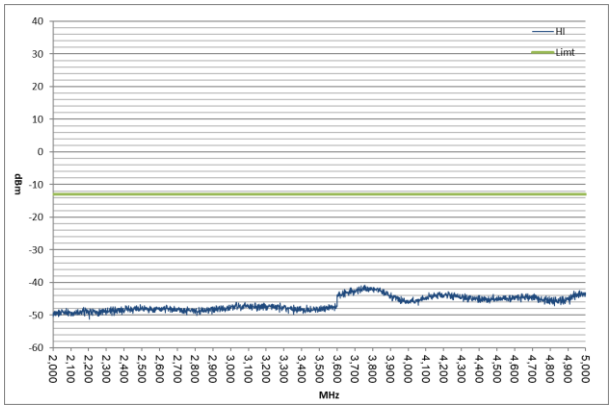
2Fc to 1GHz



1GHz to 2GHz

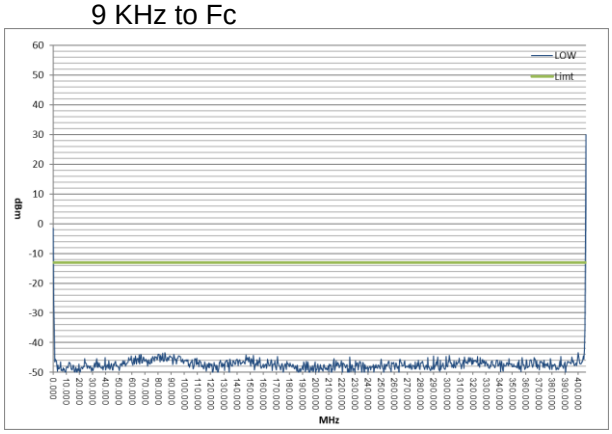


2GHz to 10Fc

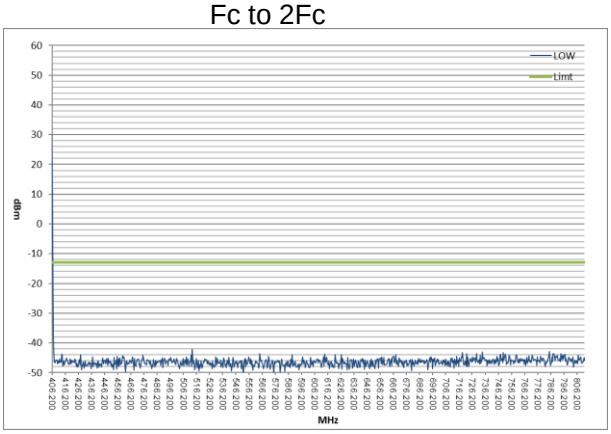


16K0F3E Low Power Fc= 406.15 MHz

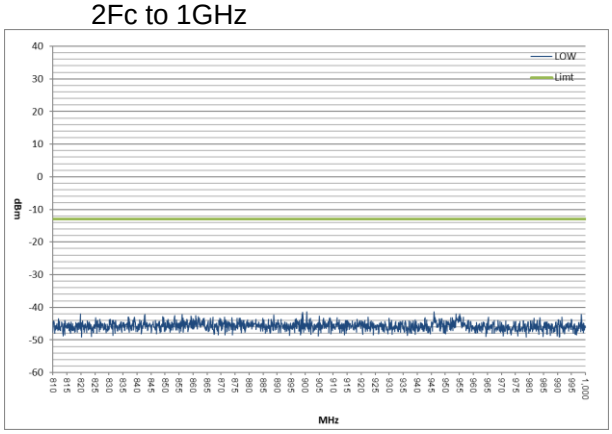
9 KHz to Fc



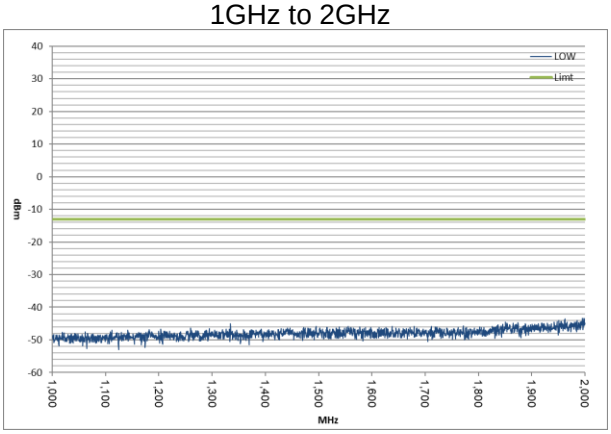
Fc to 2Fc



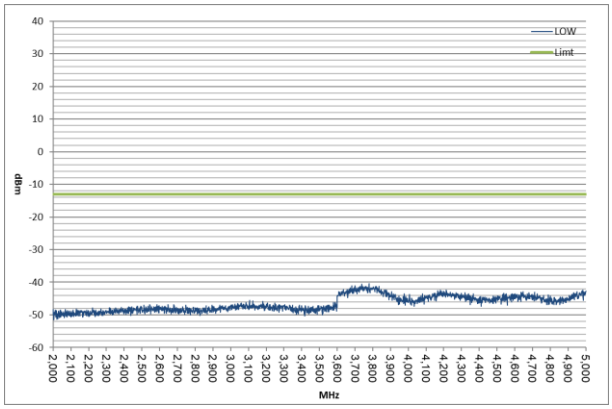
2Fc to 1GHz



1GHz to 2GHz

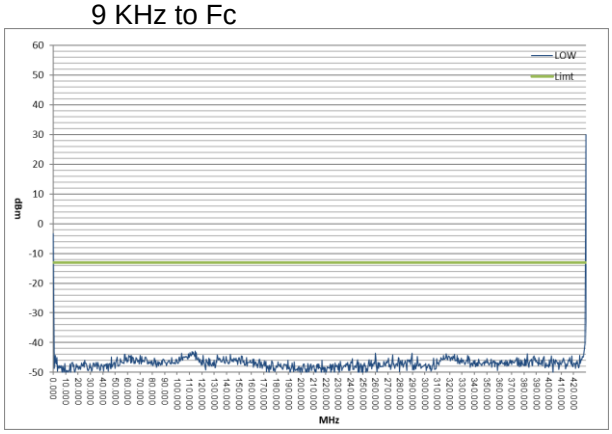


2GHz to 10Fc

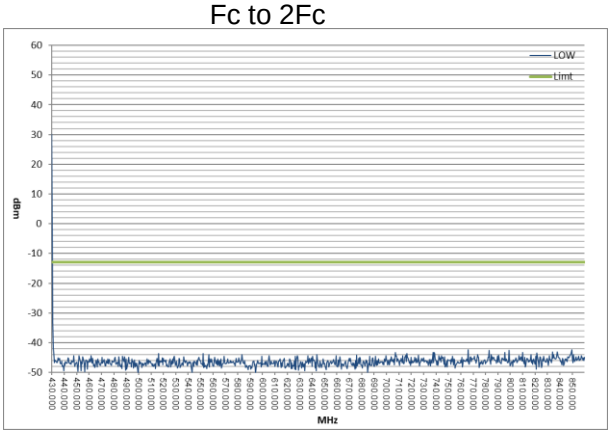


16K0F3E Low Power Fc= 429.95 MHz

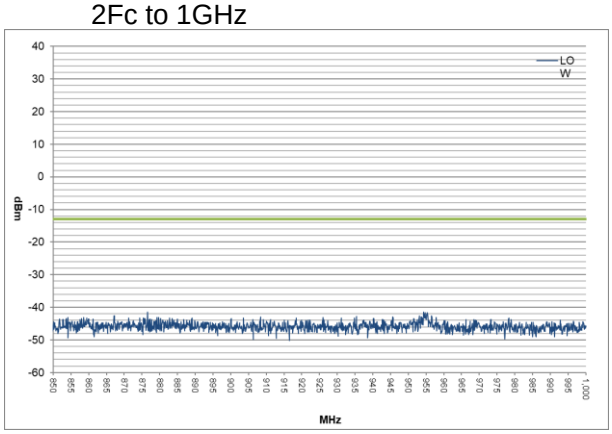
9 KHz to Fc



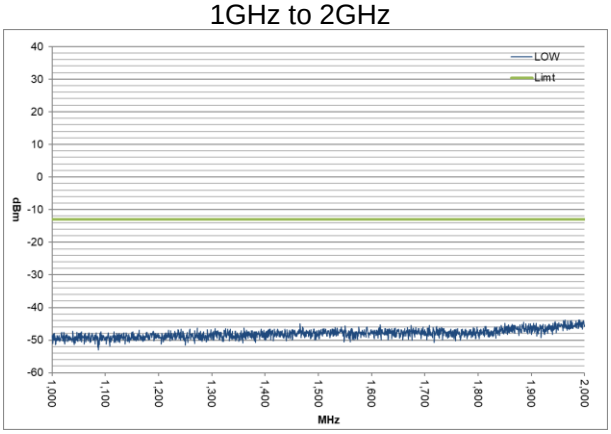
Fc to 2Fc



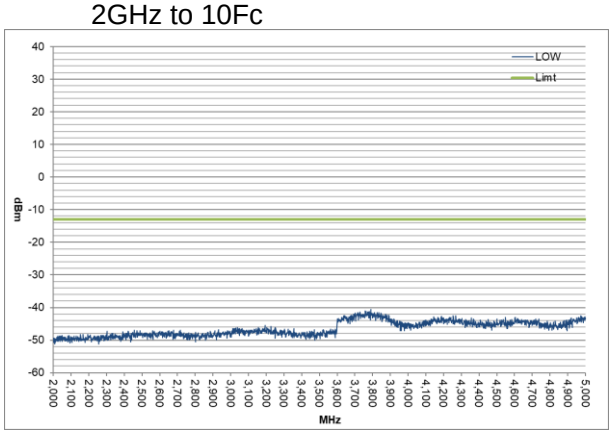
2Fc to 1GHz



1GHz to 2GHz

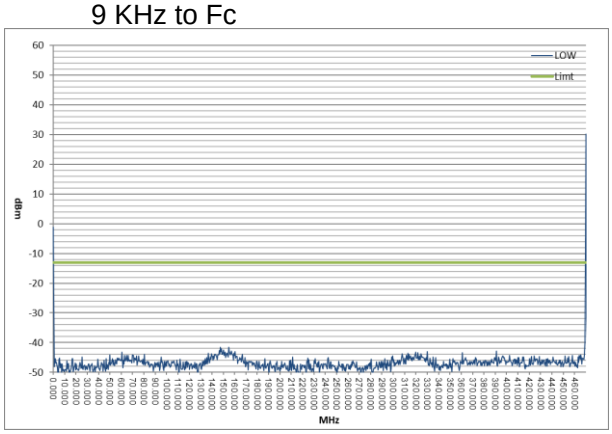


2GHz to 10Fc

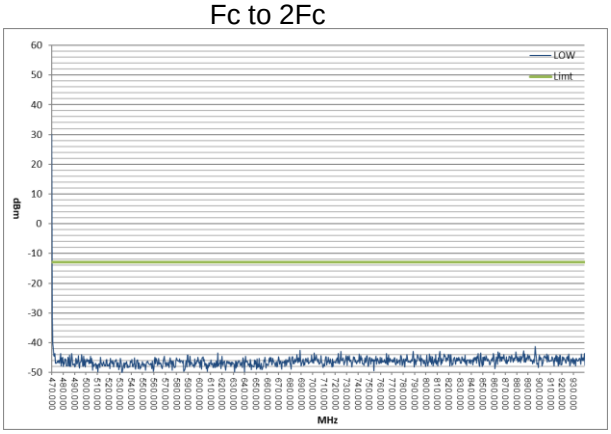


16K0F3E Low Power Fc= 469.95 MHz

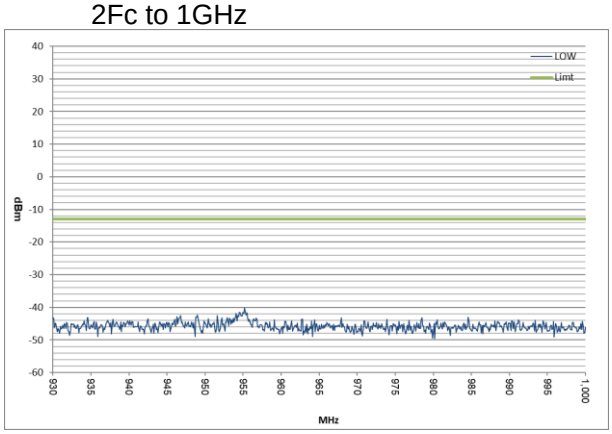
9 KHz to Fc



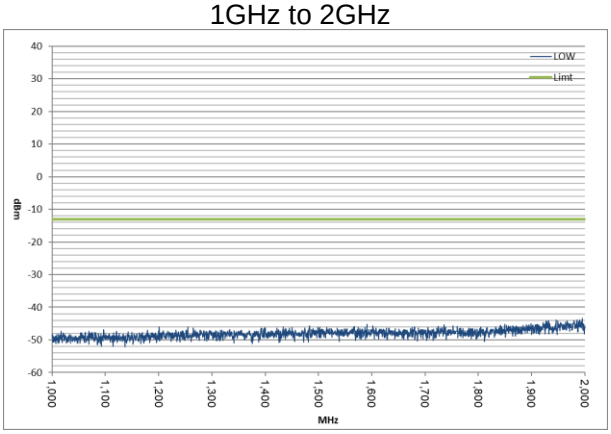
Fc to 2Fc



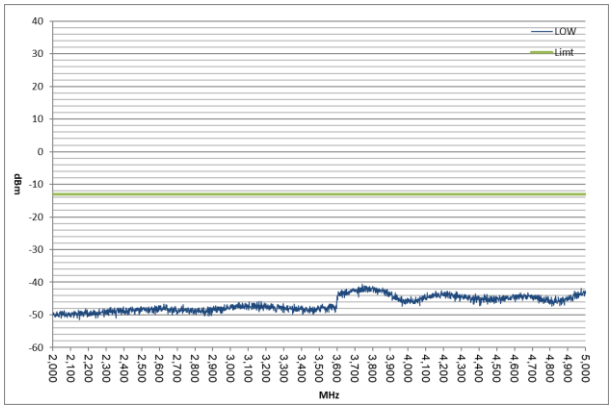
2Fc to 1GHz



1GHz to 2GHz



2GHz to 10Fc



State : High Power / Authorized Bandwidth 11.25 kHz (11K0F3E)

No.	Tuned Frequency (MHz)	Band	Spurious Frequency (MHz)	Correct Level (dBm)	Emission Level (dBc)	Mask D Limit (dBc)	Margin (dB)
1	406.15 (FCC/RSS)	Low	812.30	-38.80	**-84.82**	-66.0	18.8
2	429.95 (FCC/RSS)	Middle	859.90	-38.15	**-84.17**	-66.0	18.2
3	469.95 (FCC/RSS)	High	939.90	-40.45	**-86.47**	-66.0	20.5
There is the margin of 20dB over except for the above points.							

Mask D Limit (dBc) = -(50+10Log(P))
Correct Level (dBm) = Substitute SG Level (dBm)
Emission Level (dBc) = Correct Level (dBm) - 10Log(P*1000)
P = Carrier Level (W)
" - " = Measurement Limit

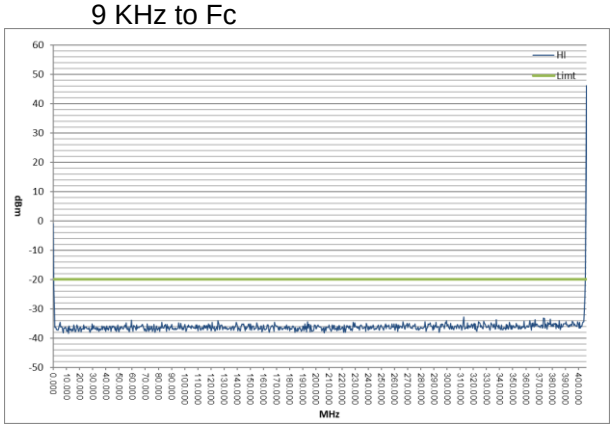
State : Low Power / Authorized Bandwidth 11.25 kHz (11K0F3E)

No.	Tuned Frequency (MHz)	Band	Spurious Frequency (MHz)	Correct Level (dBm)	Emission Level (dBc)	Mask D Limit (dBc)	Margin (dB)
1	406.15 (FCC/RSS)	Low	812.30	-42.10	**-72.10**	-50.0	22.1
2	429.95 (FCC/RSS)	Middle	859.90	-42.72	**-72.72**	-50.0	22.7
3	469.95 (FCC/RSS)	High	939.90	-43.29	**-73.29**	-50.0	23.3
There is the margin of 20dB over except for the above points.							

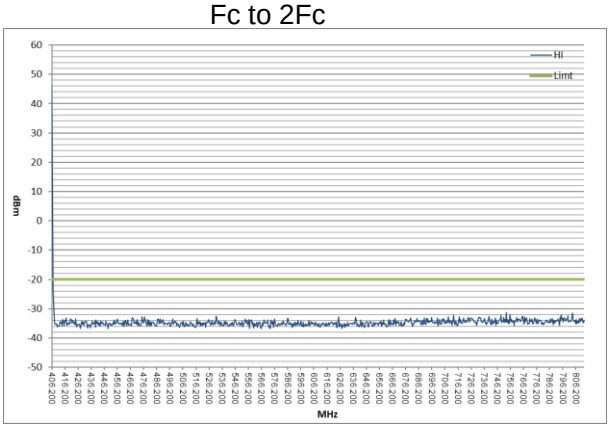
Mask D Limit (dBc) = -(50+10Log(P))
Correct Level (dBm) = Substitute SG Level (dBm)
Emission Level (dBc) = Correct Level (dBm) - 10Log(P*1000)
P = Carrier Level (W)
" - " = Measurement Limit

11K0F3E Hi Power Fc= 406.15 MHz

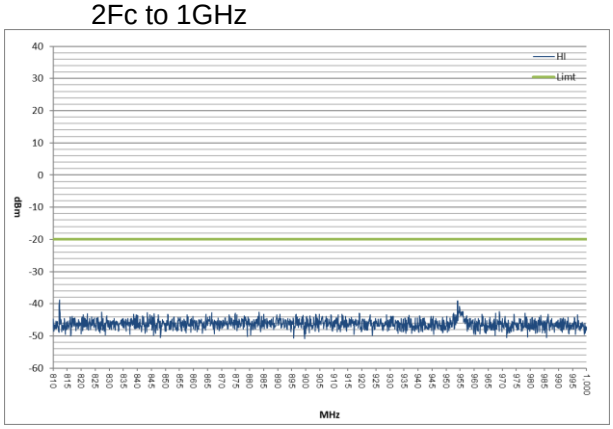
9 KHz to Fc



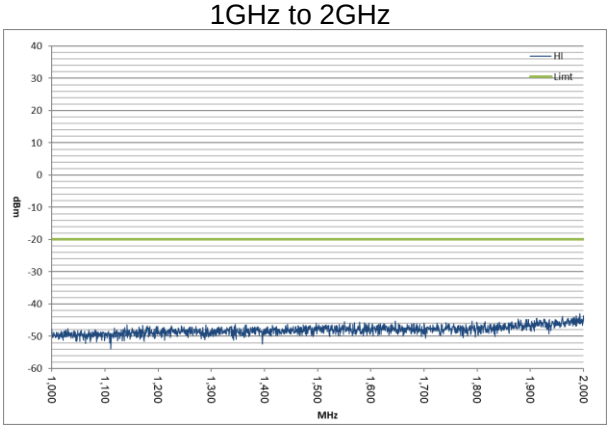
Fc to 2Fc



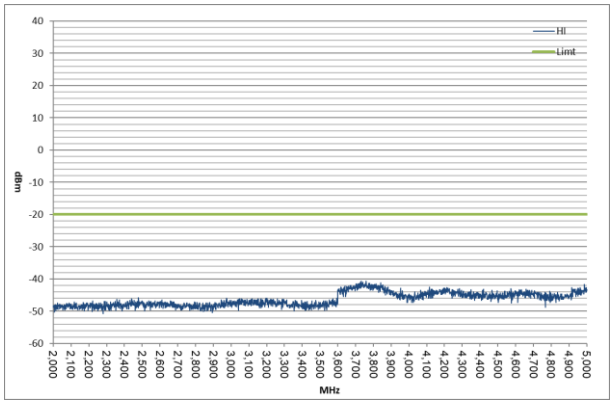
2Fc to 1GHz



1GHz to 2GHz

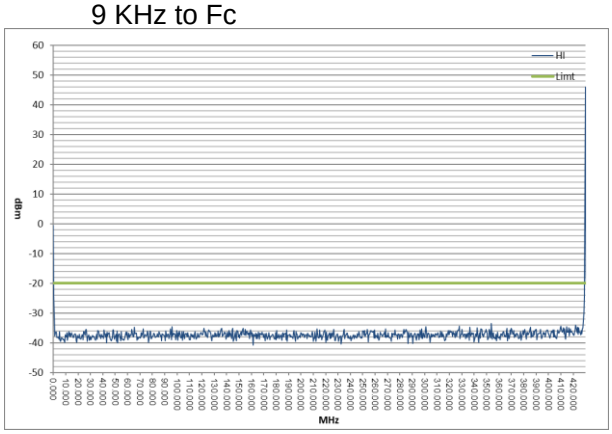


2GHz to 10Fc

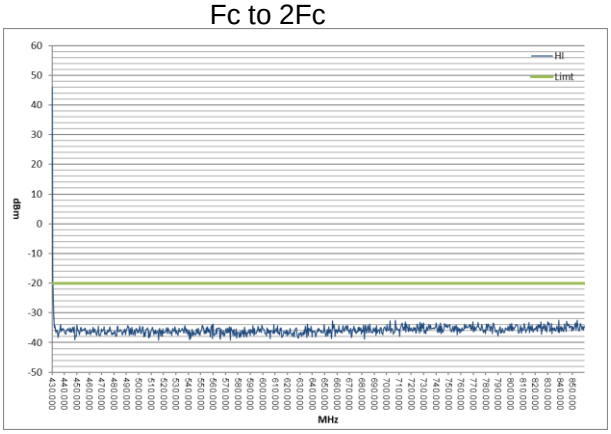


11K0F3E Hi Power Fc= 429.95 MHz

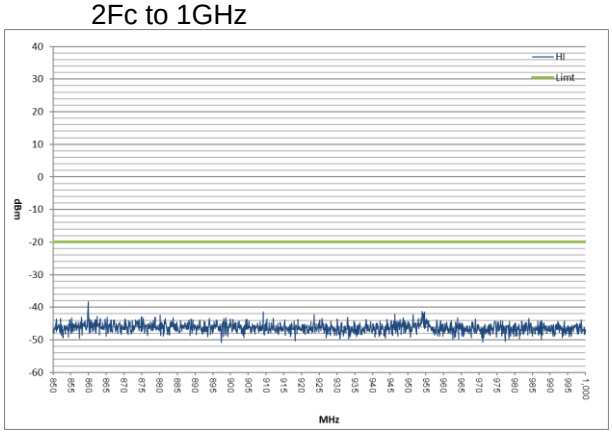
9 KHz to Fc



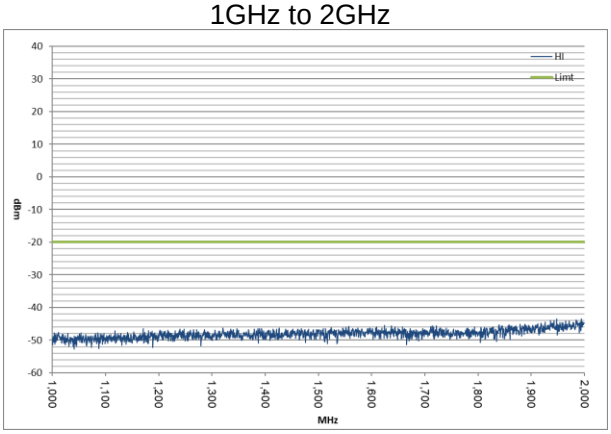
Fc to 2Fc



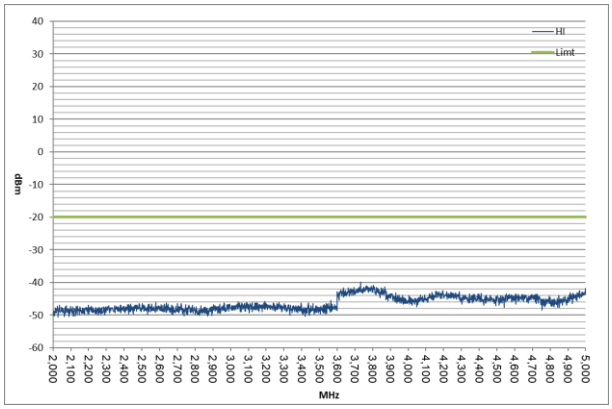
2Fc to 1GHz



1GHz to 2GHz

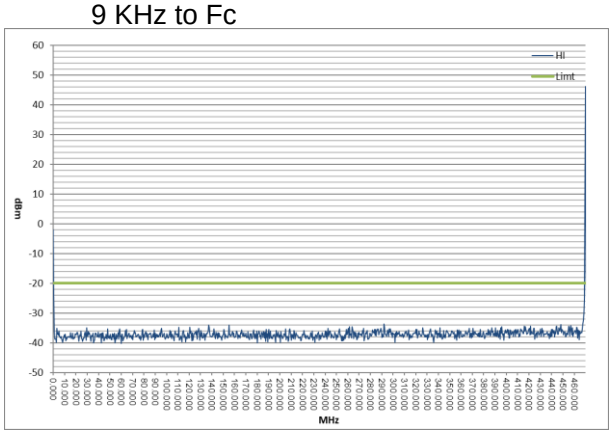


2GHz to 10Fc

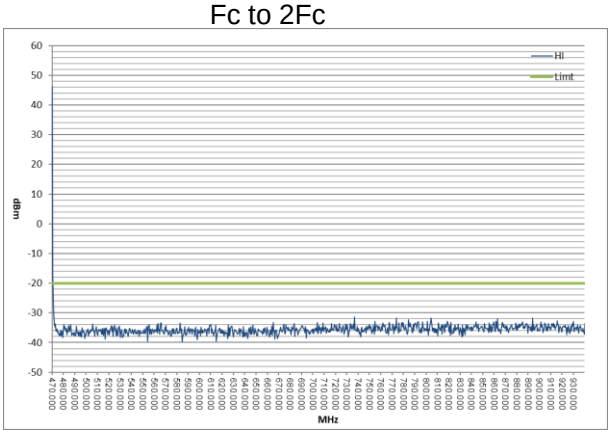


11K0F3E Hi Power Fc= 469.95 MHz

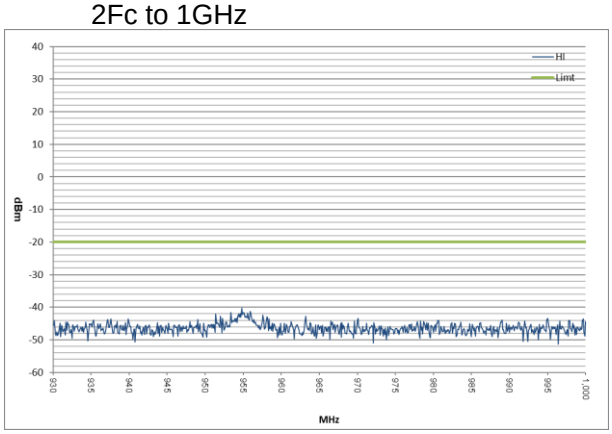
9 KHz to Fc



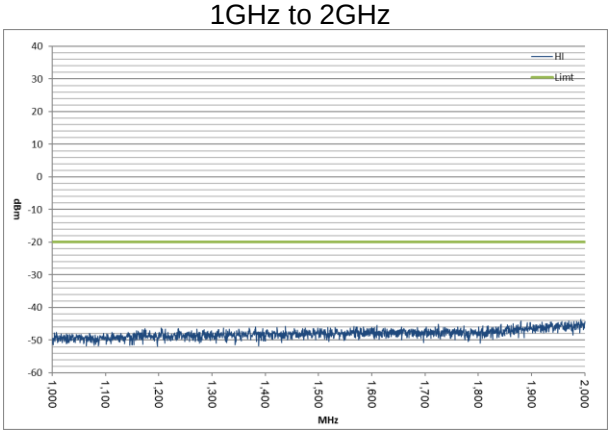
Fc to 2Fc



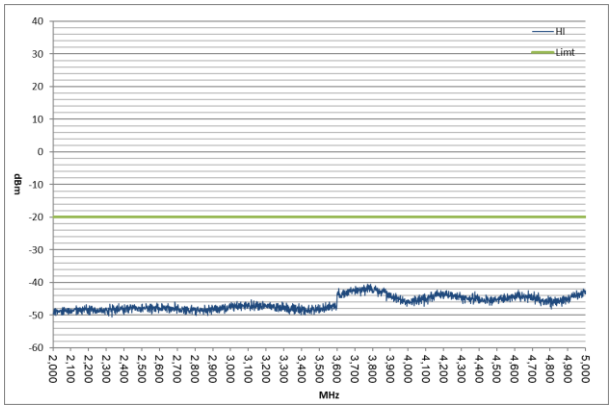
2Fc to 1GHz



1GHz to 2GHz

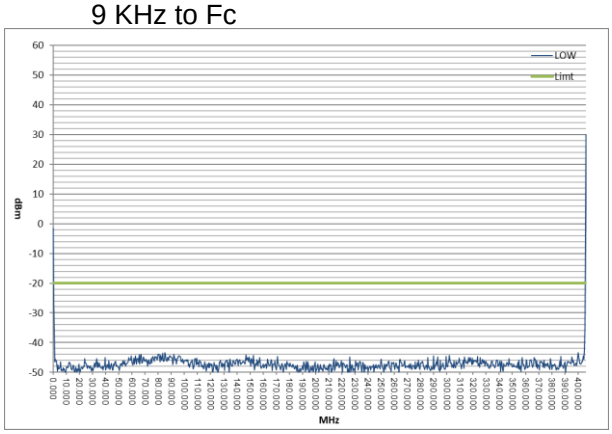


2GHz to 10Fc

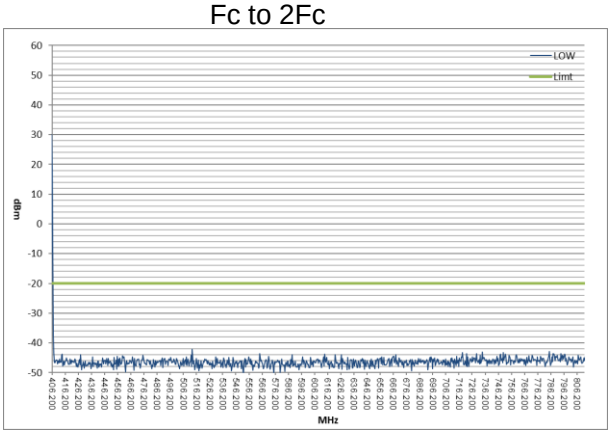


11K0F3E Low Power Fc= 406.15 MHz

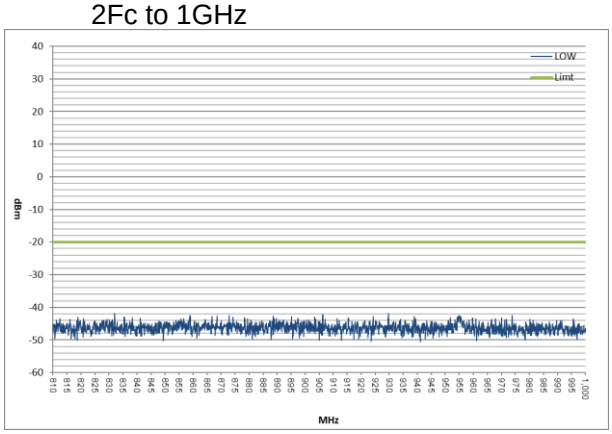
9 KHz to Fc



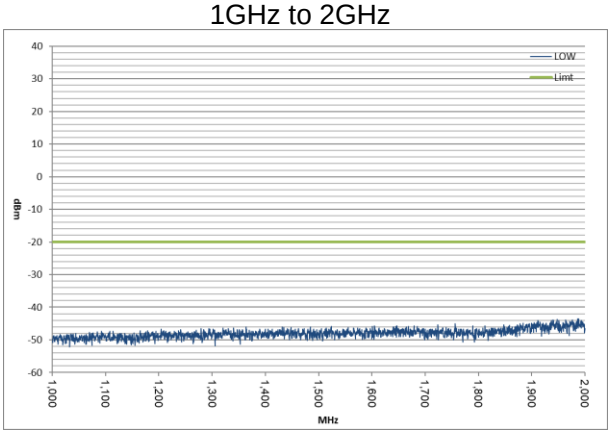
Fc to 2Fc



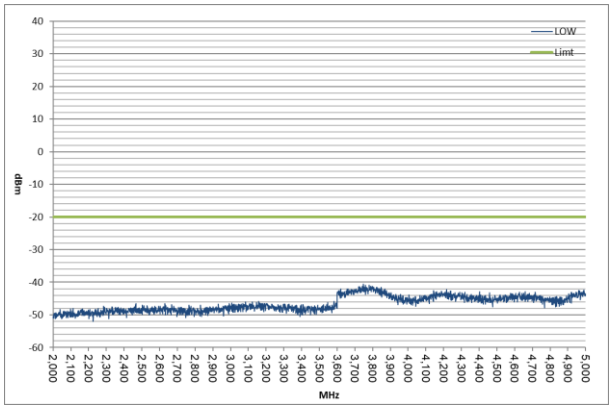
2Fc to 1GHz



1GHz to 2GHz

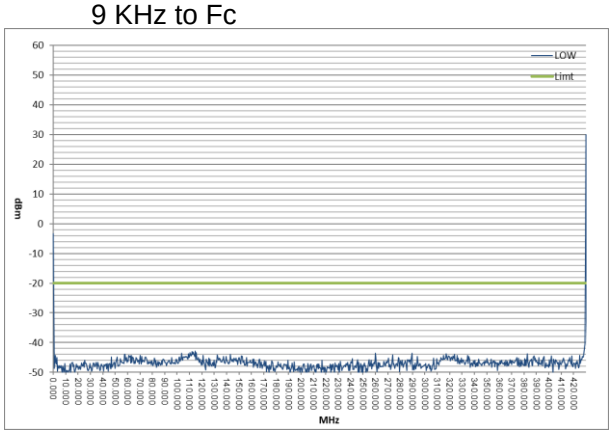


2GHz to 10Fc

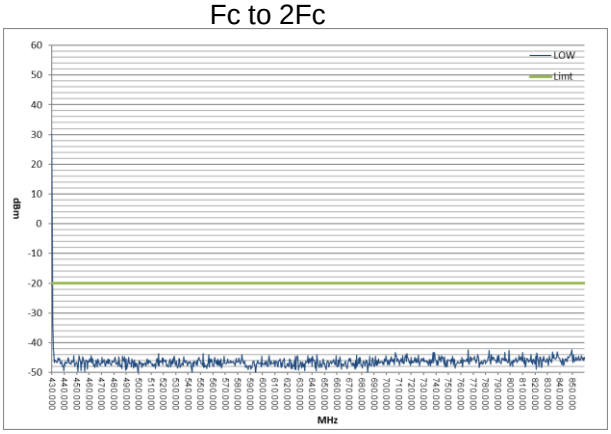


11K0F3E Low Power Fc= 429.95 MHz

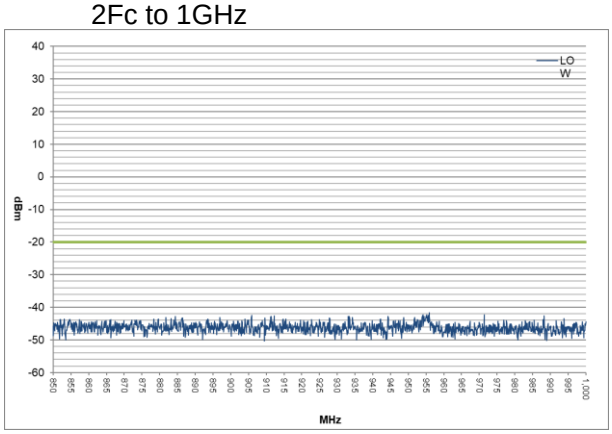
9 KHz to Fc



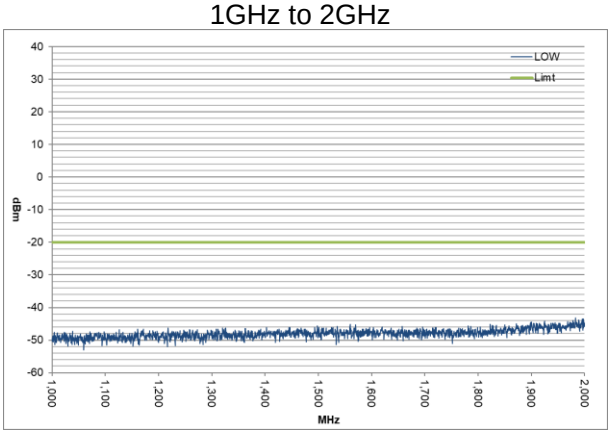
Fc to 2Fc



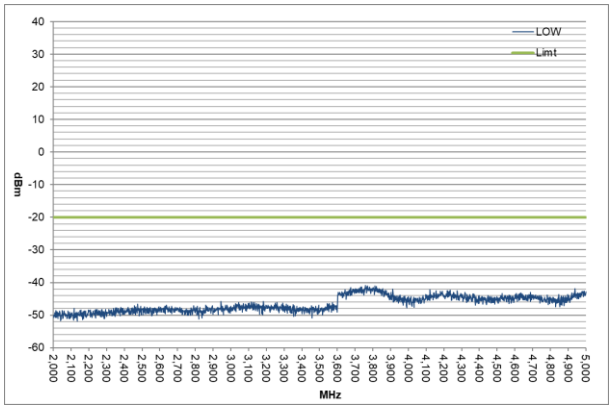
2Fc to 1GHz



1GHz to 2GHz

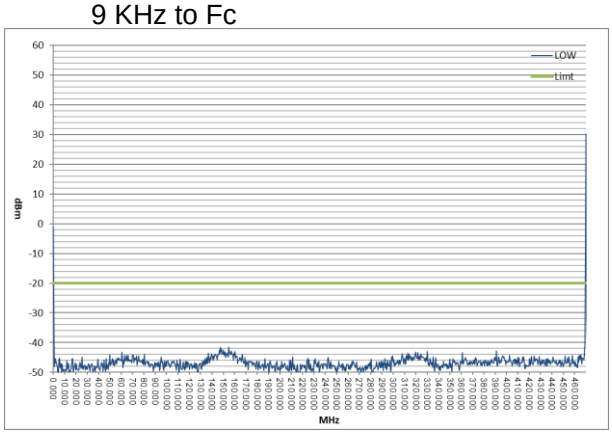


2GHz to 10Fc

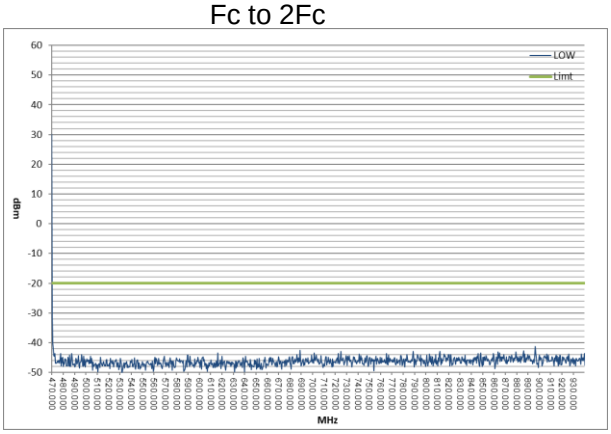


11K0F3E Low Power Fc= 469.95 MHz

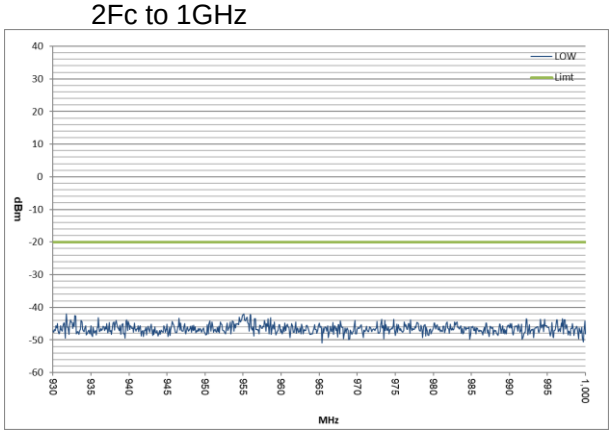
9 KHz to Fc



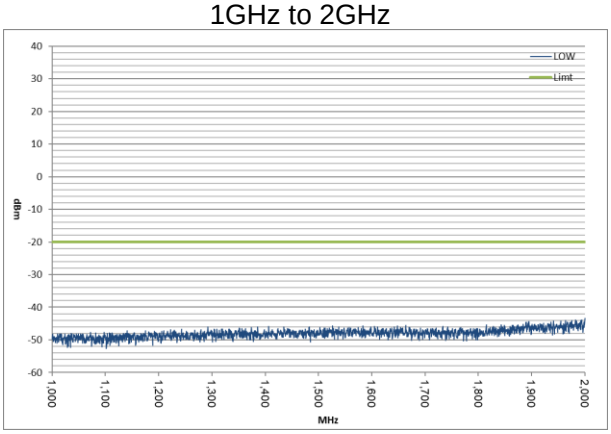
Fc to 2Fc



2Fc to 1GHz



1GHz to 2GHz



2GHz to 10Fc