Certificate of Calibration

ISO/IEC 17025:2017 and ANSI/NCSL Z540.3-2006

Certificate Number 1-14075552362-1

AC-1498

Model Number	N9030B
Manufacturer	Keysight Technologies Inc
Description	PXA Signal Analyzer, Multi-touch
Serial Number	MY57142831
Customer Asset No.	N9030B42831

Customer
Keysight Technologies Inc
10090 Foothills Blvd
ROSEVILLE CA 95747
United States

Date of Calibration	4 Mar 2021
Procedure	TME-N7814A-E.24.00
Temperature	(23 ± 5) °C
Humidity	(50 ± 30) %RH

Location of Calibration
Keysight Technologies Inc
10090 Foothills Blvd.
Roseville CA 95747-7102
UNITED STATES

This certifies that the equipment has been calibrated using applicable Keysight Technologies procedures and in compliance with ISO/IEC 17025:2017 and ANSI/NCSL Z540.3-2006. The quality management system is registered to ISO 9001:2015.

As Received Conditions
The expanded measurement uncertainty intervals about one or more measured values were in as well as out of specification. Consequently, neither compliance nor non-compliance with specification can be declared based on the stated coverage probability.

Action Taken
- The equipment was adjusted.

As Completed Conditions
The measured values of the equipment were observed in specification at the points tested. Additionally, the expanded measurement uncertainty intervals about the measured values were in specification.

Remarks or Special Requirements

This calibration report shall not be reproduced, except in full. The documented results relate to the equipment calibrated only.

The test limits stated in the report correspond to the published specifications of the equipment, at the points tested.
This calibration report may refer to equipment manufactured by HP, Agilent and Keysight as being manufactured by Keysight Technologies.

Based on the customer's request, the next calibration is due on 4 Mar 2022.

Keysight Technologies Inc
10090 Foothills Blvd.
Roseville CA 95747-7102
UNITED STATES

Wes Fischbach Roseville Serv. Cntr. Mgr.

Certificate of Calibration

ISO/IEC 17025:2017 and ANSI/NCSL Z540.3-2006

Certificate Number 1-14075552362-1

AC-1498

Traceability Information

Technician ID 01016616

Measurements are traceable to the International System of Units (SI) via national metrology institutes (www.keysight.com/find/NMI) that are signatories to the CIPM Mutual Recognition Arrangement.

Calibration Equipment Used

Model Number	Model Description	Equipment ID	Cal Due Date
10 MHz External Reference	Rubidium Standard	FS72533342	9 Mar 2021
11667A	DC-18 GHz power splitter, type N, 50 ohm	11667A56705	10 Nov 2022
11667B	Power splitter, DC to 26.5 GHz, 3.5 mm female connectors	11667B13230	8 Jan 2023
11667C	DC - 50 GHz power splitter, 50 ohm	11667C07502	31 May 2021
33250A	Function/Arbitrary Waveform Generator, 80 MHz	33250A13731	21 Jun 2021
3458A	Digital multimeter, 8.5 digit	3458A12319	9 Apr 2021
500-13438D	10MHz-1GHz Phase Lock Frequency Source Rev.D Input	500-1343831449	8 Oct 2021
53132A	Universal Counter, 225 MHz, 12 digit/s, 150 ps. GPIB, RS232	53132A05466	10 Feb 2024
8482A	Power Sensor, 100 kHz to 4.2 GHz, -30 to +20 dBm	8482A90876	15 Mar 2022
8482A	Power Sensor, 100 kHz to 4.2 GHz, -30 to +20 dBm	8482A28691	30 Sep 2021
8487D	Power Sensor, 50 MHz to 50 GHz, -70 to -20 dBm	8487D91007	30 Oct 2022
8487D	Power Sensor, 50 MHz to 50 GHz, -70 to -20 dBm	8487D80006	18 Aug 2021
8490D	Coaxial fixed attenuator, dc-50 GHz	8490D07479	6 Jan 2022
8491A	Coaxial attenuator, dc-12.4 GHz, Type N	8491A51686	16 Jul 2021
8491A	Coaxial attenuator, dc-12.4 GHz, Type N	8491A07688	10 Aug 2021
8491B	Coaxial attenuator, dc - 18 GHz, Type N	8491B72065	1 Jan 2022
8491B	Coaxial attenuator, dc - 18 GHz, Type N	8491B71666	13 Aug 2021
8493C	Coaxial fixed attenuator, dc to 26.5 GHz	8493C19050	11 Jul 2021
8494G	0-11dB programmable step ATTENUATOR., dc-4GHz	8494G90024	19 Jun 2021
8496G	0-110dB programmable step attenuator, dc-4GHz	8496G90031	19 Jun 2021
E4419B	Power meter - EPM series, dual channel	E4419B00504	16 Sep 2021
E8257D	PSG analog signal generator	E8257D40008	26 Feb 2022
E8257D	PSG analog signal generator	E8257D60017	9 Apr 2021
N8485A	Power Sensor - Thermocouple, average, 10MHz to 26.5GHz	N8485A10011	28 May 2021
N8487A	Power Sensor - Thermocouple, average, 50MHz to 50GHz	N8487A10013	16 Jul 2021
N8487A	Power Sensor - Thermocouple, average, 50MHz to 50GHz	N8487A80008	11 Jun 2022

Traceability Table

	Model	Model Description	Equipment ID	Certificate Number	Trace Value
W,R	10 MHz External Reference	Rubidium Standard	FS72533342	1-12318121696-1-ANAB:AC-1498.01	Frequency
W,R	11667A	DC-18 GHz power splitter, type N, 50 ohm	11667A56705	1-13438944679-1-ANAB:AC-1498	Reflection Coefficient Transmission Coefficient
W,R	11667B	Power splitter, DC to 26.5 GHz, 3.5 mm female connectors	11667B13230	1-13783246897-1-ANAB:AC-1498	Reflection Coefficient Transmission Coefficient
W,R	11667C	DC - 50 GHz power splitter, 50 ohm	11667C07502	1-10959513643-1-ANAB:AC-1498	Reflection Coefficient Transmission Coefficient
W,R	33250A	Function/Arbitrary Waveform Generator, 80 MHz	33250A13731	1-12776585446-1-ANAB:AC-1498	AC Voltage Frequency
W,R	3458A	Digital multimeter, 8.5 digit	3458A12319	1-12407407720-1-ANAB:AC-1498	AC Voltage
W,R	500-13438D	10MHz-1GHz Phase Lock Frequency Source Rev.D Input	500-1343831449	1-13144809777-1-ANAB:AC-1498	Phase Noise
W,R	53132A	Universal Counter, 225 MHz, 12 digit/s, 150 ps. GPIB, RS232	53132A05466	1-13944246763-1-ANAB:AC-1498	Frequency
W,R	8482A	Power Sensor, 100 kHz to 4.2 GHz, -30 to +20 dBm	8482A90876	1-13221000057-1-ANAB:AC-1498	RF Power
W,R	8482A	Power Sensor, 100 kHz to 4.2 GHz, -30 to +20 dBm	8482A28691	1-13220716110-1-ANAB:AC-1498	RF Power
W,R	8487D	Power Sensor, 50 MHz to 50 GHz, -70 to -20 dBm	8487D80006	1-13076294556-1-ANAB:AC-1498	RF Power
W,R	8487D	Power Sensor, 50 MHz to 50 GHz, -70 to -20 dBm	8487D91007	1-13314564858-1-ANAB:AC-1498	RF Power
W,R	8490D	Coaxial fixed attenuator, dc-50 GHz	8490D07479	1-13788212412-1-ANAB:AC-1498	Attenuation
W,R	8491A	Coaxial attenuator, dc-12.4 GHz, Type N	8491A07688	1-13054766440-1-ANAB:AC-1498	Attenuation
W,R	8491A	Coaxial attenuator, dc-12.4 GHz, Type N	8491A51686	1-12087764295-1-ANAB:AC-1498	Attenuation
W,R	8491B	Coaxial attenuator, dc - 18 GHz, Type N	8491B72065	1-13287672877-1-ANAB:AC-1498	Attenuation
W,R	8491B	Coaxial attenuator, dc - 18 GHz, Type N	8491B71666	1-13019336902-1-ANAB:AC-1498	Attenuation
W,R	8493C	Coaxial fixed attenuator, dc to 26.5 GHz	8493C19050	1-11428027289-1-ANAB:AC-1498	Attenuation
W,R	8494G	0-11dB programmable step ATTENUATOR., dc-4GHz	8494G90024	1-12839139654-2-ANAB:AC-1498	Attenuation
W,R	8496G	0-110dB programmable step attenuator, dc-4GHz	8496G90031	1-12839139654-1-ANAB:AC-1498	Attenuation
W,R	E4419B	Power meter - EPM series, dual channel	E4419B00504	1-13183884515-1-ANAB:AC-1498	RF Power

	Model	Model Description	Equipment ID	Certificate Number	Trace Value
W,R	E8257D	PSG analog signal generator	E8257D40008	1-14059350328-1-ANAB:AC-1498	Frequency Phase Noise RF Power Spectral Purity
W,R	E8257D	PSG analog signal generator	E8257D60017	1-11120281423-1-ANAB:AC-1498	Frequency Phase Noise RF Power Spectral Purity
W,R	N8485A	Power Sensor - Thermocouple, average, 10MHz to 26.5GHz	N8485A10011	1-11295868438-1-ANAB:AC-1498	RF Power
W,R	N8487A	Power Sensor - Thermocouple, average, 50MHz to 50GHz	N8487A10013	1-11481229143-1-ANAB:AC-1498	RF Power
W,R	N8487A	Power Sensor - Thermocouple, average, 50MHz to 50GHz	N8487A80008	1-12642273801-1-ANAB:AC-1498	RF Power

Legend

W - Working Standard The calibration equipment used for the calibration of the Model indicated on the first page of the Certificate of calibration.

R - Reference Standard The Reference Standard (Accredited or NMI-calibrated ETE) used to provide traceability to the SI-Units for the calibration parameters listed.

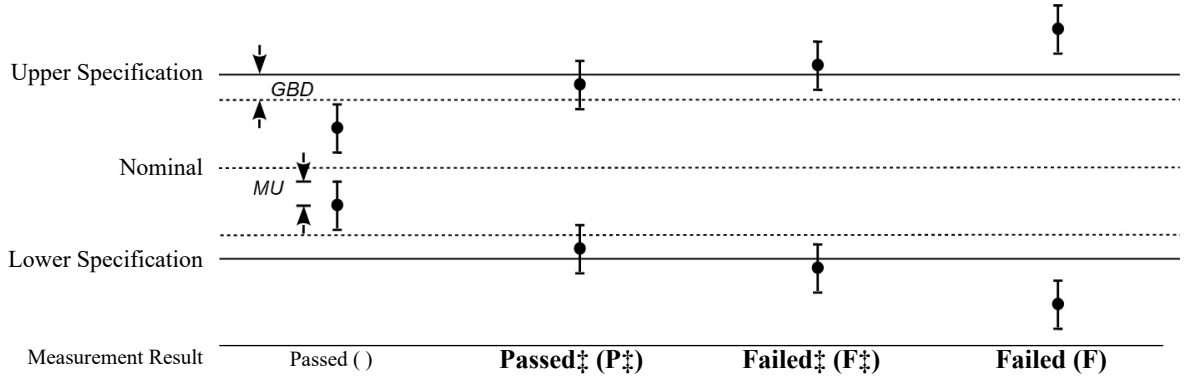
Compliance with Specification

The uncertainty of measurement has been taken into account when determining compliance with specification, as per ILAC-G8:09/2019. If the expanded measurement uncertainty intervals centered about one or more measured values were both in as well as out of specification (upper or lower), it is not possible to state compliance or non-compliance based on a 95% coverage probability for the expanded measurement uncertainty.

An overall statement of compliance for all tests performed as received, and as completed (if any adjustments / repairs were performed) is included at the beginning of this report. Statements of compliance apply only to warranted specifications. When functional verification tests are performed, results are reported in the “Functional Test” section, and do not affect these statements of compliance.
The status summaries relate to the tested item only. A final decision about whether the item's performance actually satisfies requirements of the user can only be made by the user.

Measurement results are reported as:

- Passed ( ) - The measured values of the equipment were observed in specification at the points tested. Additionally, the expanded measurement uncertainty intervals about the measured values were in specification.
- Passed‡ (P‡) - The measured values of the equipment were observed in specification at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values exceeded specification. Consequently, compliance with specification cannot be declared based on the stated coverage probability.
- Failed‡ (F‡) - One or more measured values of the equipment were observed out of specification at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values were in specification. Consequently, non-compliance with specification cannot be declared based on the stated coverage probability.
- Failed (F) - One or more measured values of the equipment were observed out of specification at the points tested. Additionally, the expanded measurement uncertainty intervals about one or more measured values were entirely outside the specification.



MU = 95% expanded measurement uncertainty.
( ) This result is indicated on the measurement report as a blank space in the column labeled “Status” or “Sts”.
Note: For more information on the level of risk such as false accept and false reject and statistical assumptions of these statements of conformity, please visit: www.keysight.com/find/decisionrules.

Acceptance Limit

The "Keysight Cal + Uncertainties + Guardbanding" service employs a guard band (GBD) in the amount of the 95% expanded measurement uncertainty (MU). The resulting acceptance limit applied for Pass or Fail decisions, and for performing adjustments, is the difference of the specification and the guard band.

Uncertainty of Measurement

The uncertainty evaluation has been performed in accordance with ISO/IEC Guide 98-3:2008 (GUM). The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95%. This probability corresponds to a coverage factor of k=2 for a normal distribution.

Calibration Test Results Summary

Test Name	As Received Status	As Completed Status
Frequency Reference Accuracy	Passed	Passed
Power Bandwidth Accuracy	Passed	Passed
Resolution Bandwidth Switching Uncertainty	Passed	Passed
Residual Responses	Passed	Passed
Noise Density	Passed	Passed
Displayed Average Noise Level	Passed	Passed
Frequency Readout Accuracy	Passed	Passed
Frequency Span Accuracy	Passed	Passed
Count Accuracy	Passed	Passed
IF Frequency Response	Passed	Passed
Spurious Responses	Passed	Passed
Gain Compression	Passed	Passed
Third Order Intermodulation Distortion	Passed	Passed
Second Harmonic Distortion	Passed	Passed
Absolute Amplitude Accuracy	Passed	Passed
Input Attenuation Switching Uncertainty	Passed	Passed
Display Scale Fidelity	Passed	Passed
Phase Noise	Passed	Passed
Freq Resp 300 kHz to 3.6 GHz Preamp Off	Passed	Passed
Freq Resp 300 kHz to 3.6 GHz Preamp On	Passed	Passed
Freq Resp Above 3.6 GHz Preamp Off	Passed	Passed
Freq Resp Above 3.6 GHz Preamp On	**Passed‡**	Passed
Freq Resp Below 300 kHz	Passed	Passed

Functional Test Results Summary

The following functional test results are not part of an accredited delivery, even if they are part of an otherwise accredited calibration report.

The following tests document the functional verification of the instruments' non-warranted performance. Neither a statement of conformance or decision rule is used for a Functional Test, measurement uncertainties are only provided by exception. For a "Functional Test" the test results are reported as "As Expected" when showing expected performance and "Not As Expected" otherwise. "As Expected" results of individual test points are indicated in the measurement report by a blank space in the column labeled "Status" to allow easier recognition of any "Not As Expected" points. If a functional test result is reported as "Not As Expected", repair and/or adjustment is recommended. Test results reported as "Done" are possible if no limits are applied. For qualitative or quantitative "Functional Tests" the test results are not warranted, and no judgment is made. The "actual" measured results are helpful to users for some applications.

Test Name	As Received Status	As Completed Status
Internal Alignment	As Expected	As Expected
Effective DANL Option NFE	As Expected	As Expected
Freq Resp Unpreselected Preamp On	As Expected	As Expected

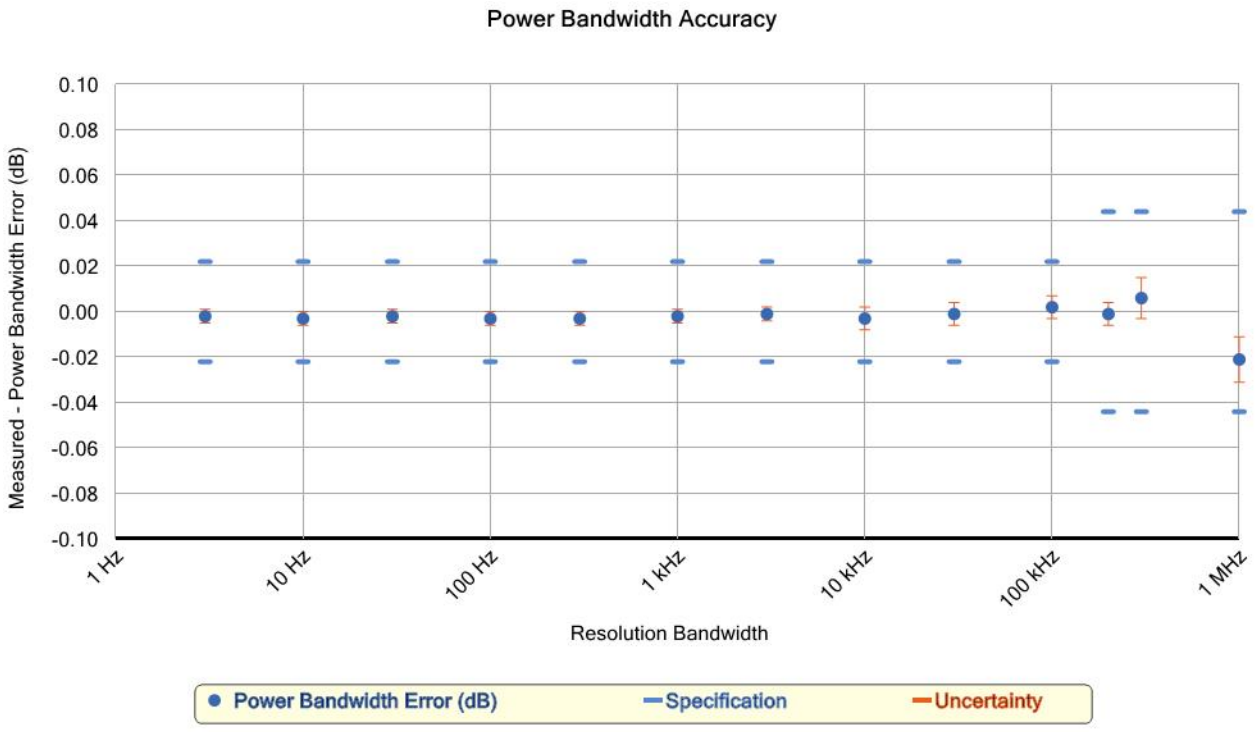
Tested Configuration

Firmware Version		A.27.05
	(As Rec)	A.27.05
Tested Options		550 B1X B1Y B25 B40 DP2 DP4 EP1 FS1 FS2 FSA LFE LNP MPB MTU NF2 NUL P50 PC6 PFR RTL SSD W10 YAV
	(As Rec)	550 B1X B1Y B25 B40 DP2 DP4 EP1 FS1 FS2 FSA LFE LNP MPB MTU NF2 NUL P50 PC6 PFR RTL SSD W10 YAV

Frequency Reference Accuracy **Passed**

Frequency	Minimum	Measured	Maximum	Uncert.	Status
10 MHz Ref	−1.55 Hz	−0.46 Hz	1.55 Hz	0.013 Hz	

Power Bandwidth Accuracy **Passed**



Resolution Bandwidth	Minimum	Measured	Maximum	Uncertainty	Status
3.00 Hz	−0.022 dB	−0.0020 dB	0.022 dB	0.0030 dB	
10.00 Hz	−0.022 dB	−0.0030 dB	0.022 dB	0.0030 dB	
30.00 Hz	−0.022 dB	−0.0020 dB	0.022 dB	0.0030 dB	
100.00 Hz	−0.022 dB	−0.0030 dB	0.022 dB	0.0030 dB	
300.00 Hz	−0.022 dB	−0.0030 dB	0.022 dB	0.0030 dB	
1000.00 Hz	−0.022 dB	−0.0020 dB	0.022 dB	0.0030 dB	
3000.00 Hz	−0.022 dB	−0.0010 dB	0.022 dB	0.0030 dB	
10000.00 Hz	−0.022 dB	−0.0030 dB	0.022 dB	0.0050 dB	
30000.00 Hz	−0.022 dB	−0.0010 dB	0.022 dB	0.0050 dB	
100000.00 Hz	−0.022 dB	0.0020 dB	0.022 dB	0.0050 dB	
200000.00 Hz	−0.044 dB	−0.0010 dB	0.044 dB	0.0050 dB	
300000.00 Hz	−0.044 dB	0.0060 dB	0.044 dB	0.0090 dB	
1000000.00 Hz	−0.044 dB	−0.0210 dB	0.044 dB	0.010 dB	

Resolution Bandwidth Switching Uncertainty — Passed

Relative to 30 kHz RBW

Resolution Bandwidth	Minimum	Measured	Maximum	Uncertainty	Status
0.30 kHz	−0.03 dB	−0.0020 dB	0.03 dB	0.0063 dB	
0.51 kHz	−0.03 dB	−0.0030 dB	0.03 dB	0.0063 dB	
1.00 kHz	−0.03 dB	−0.0010 dB	0.03 dB	0.0063 dB	
3.00 kHz	−0.03 dB	−0.0050 dB	0.03 dB	0.0063 dB	
10.00 kHz	−0.03 dB	−0.0030 dB	0.03 dB	0.0063 dB	
100.00 kHz	−0.03 dB	−0.0010 dB	0.03 dB	0.0063 dB	
300.00 kHz	−0.03 dB	−0.0010 dB	0.03 dB	0.0063 dB	
1000.00 kHz	−0.03 dB	−0.0020 dB	0.03 dB	0.0063 dB	
1500.00 kHz	−0.03 dB	−0.0010 dB	0.03 dB	0.0063 dB	
2000.00 kHz	−0.05 dB	0.0000 dB	0.05 dB	0.0063 dB	
3000.00 kHz	−0.10 dB	0.0080 dB	0.10 dB	0.0063 dB	
4000.00 kHz	−0.30 dB	0.0100 dB	0.30 dB	0.0063 dB	
5000.00 kHz	−0.30 dB	0.0150 dB	0.30 dB	0.0063 dB	
6000.00 kHz	−0.30 dB	0.0200 dB	0.30 dB	0.0063 dB	
8000.00 kHz	−0.30 dB	0.0280 dB	0.30 dB	0.0063 dB	

Residual Responses — Passed

STD Path, Preamplifier OFF

Center Frequency	Measured	Maximum	Uncert.	Status
1.25 MHz	−133.2 dBm	−100.00 dBm	3.4 dB	
5.00 MHz	−133.9 dBm	−100.00 dBm	3.4 dB	
6.00 MHz	−133.1 dBm	−100.00 dBm	3.3 dB	
50.00 MHz	−132.7 dBm	−100.00 dBm	3.3 dB	
88.33 MHz	−133.9 dBm	−100.00 dBm	3.4 dB	
150.00 MHz	−133.3 dBm	−100.00 dBm	3.4 dB	
200.00 MHz	−133.0 dBm	−100.00 dBm	3.3 dB	
250.00 MHz	−132.7 dBm	−100.00 dBm	3.3 dB	
400.00 MHz	−133.1 dBm	−100.00 dBm	3.3 dB	
702.00 MHz	−133.0 dBm	−100.00 dBm	3.3 dB	
1223.75 MHz	−132.4 dBm	−100.00 dBm	3.4 dB	
1331.25 MHz	−133.1 dBm	−100.00 dBm	3.5 dB	
1916.25 MHz	−132.2 dBm	−100.00 dBm	3.4 dB	
1996.88 MHz	−130.1 dBm	−100.00 dBm	3.2 dB	
2158.13 MHz	−131.2 dBm	−100.00 dBm	3.4 dB	
2400.00 MHz	−131.1 dBm	−100.00 dBm	3.4 dB	
2770.00 MHz	−130.4 dBm	−100.00 dBm	3.4 dB	
3600.00 MHz	−125.4 dBm	−100.00 dBm	3.2 dB	
4155.00 MHz	−125.9 dBm	−100.00 dBm	3.9 dB	
4800.00 MHz	−126.0 dBm	−100.00 dBm	3.9 dB	
6000.00 MHz	−127.1 dBm	−100.00 dBm	3.8 dB	
7200.00 MHz	−125.7 dBm	−100.00 dBm	3.7 dB	

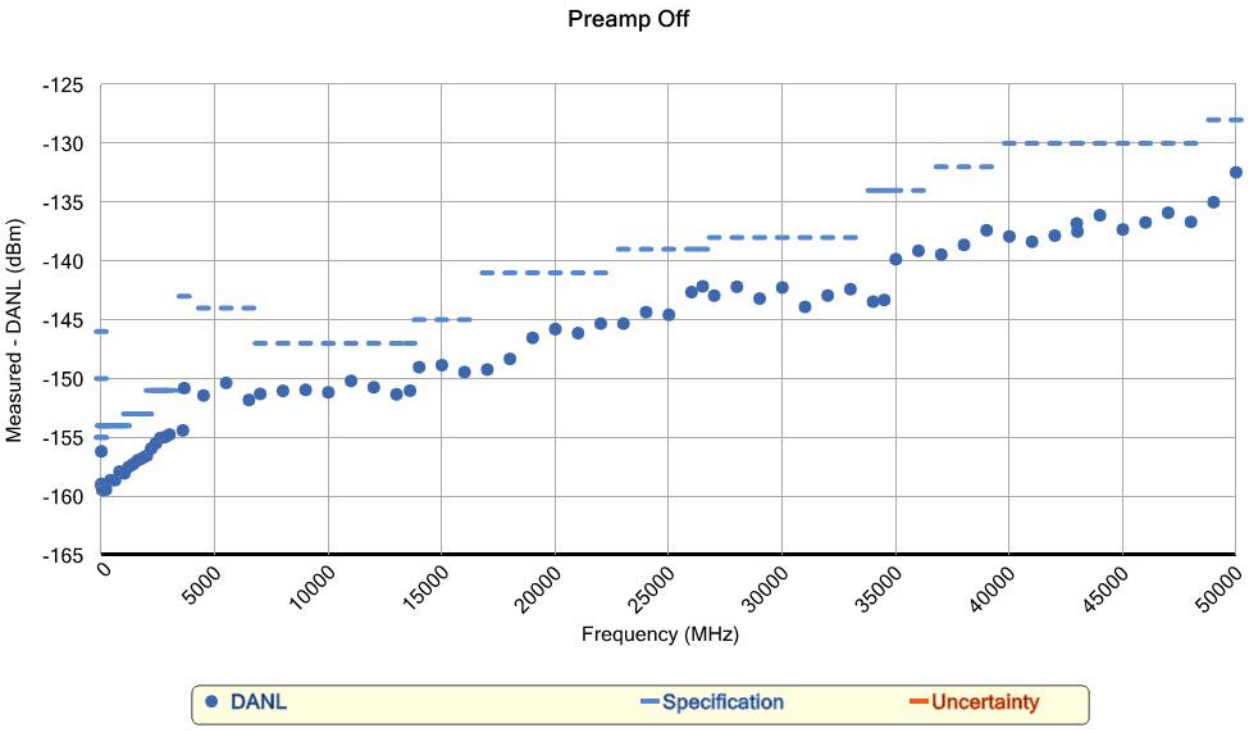
The reported uncertainties assume measured values near the specification limit.

Noise Density

Passed

Frequency	Span	IF Gain	Measured	Maximum	Uncert.	Status
1800 MHz	40 MHz	LOW	−153.01 dBm/Hz	−144.0 dBm/Hz	0.57 dB	
5950 MHz	40 MHz	LOW	−151.98 dBm/Hz	−140.0 dBm/Hz	0.57 dB	
10950 MHz	40 MHz	LOW	−149.75 dBm/Hz	−141.0 dBm/Hz	0.57 dB	
15300 MHz	40 MHz	LOW	−148.05 dBm/Hz	−135.0 dBm/Hz	0.57 dB	
21750 MHz	40 MHz	LOW	−147.08 dBm/Hz	−133.0 dBm/Hz	0.57 dB	
30000 MHz	40 MHz	LOW	−145.18 dBm/Hz	−130.0 dBm/Hz	0.57 dB	
42200 MHz	40 MHz	LOW	−141.25 dBm/Hz	−130.0 dBm/Hz	0.57 dB	
1800 MHz	40 MHz	HIGH	−154.74 dBm/Hz	−144.0 dBm/Hz	0.57 dB	
5950 MHz	40 MHz	HIGH	−153.63 dBm/Hz	−140.0 dBm/Hz	0.57 dB	
10950 MHz	40 MHz	HIGH	−150.58 dBm/Hz	−141.0 dBm/Hz	0.57 dB	
15300 MHz	40 MHz	HIGH	−148.71 dBm/Hz	−135.0 dBm/Hz	0.57 dB	
21750 MHz	40 MHz	HIGH	−147.49 dBm/Hz	−133.0 dBm/Hz	0.57 dB	
30000 MHz	40 MHz	HIGH	−145.39 dBm/Hz	−130.0 dBm/Hz	0.57 dB	
42200 MHz	40 MHz	HIGH	−141.32 dBm/Hz	−130.0 dBm/Hz	0.57 dB	
1800 MHz	140 MHz	LOW	−154.20 dBm/Hz	−149.0 dBm/Hz	0.57 dB	
5950 MHz	140 MHz	LOW	−153.03 dBm/Hz	−145.0 dBm/Hz	0.57 dB	
10950 MHz	140 MHz	LOW	−150.93 dBm/Hz	−144.0 dBm/Hz	0.57 dB	
15300 MHz	140 MHz	LOW	−148.14 dBm/Hz	−139.0 dBm/Hz	0.57 dB	
21750 MHz	140 MHz	LOW	−147.13 dBm/Hz	−136.0 dBm/Hz	0.57 dB	
30000 MHz	140 MHz	LOW	−145.80 dBm/Hz	−130.0 dBm/Hz	0.57 dB	
42200 MHz	140 MHz	LOW	−141.46 dBm/Hz	−130.0 dBm/Hz	0.57 dB	
1800 MHz	140 MHz	HIGH	−155.47 dBm/Hz	−151.0 dBm/Hz	0.57 dB	
5950 MHz	140 MHz	HIGH	−153.97 dBm/Hz	−146.0 dBm/Hz	0.57 dB	
10950 MHz	140 MHz	HIGH	−151.34 dBm/Hz	−145.0 dBm/Hz	0.57 dB	
15300 MHz	140 MHz	HIGH	−148.94 dBm/Hz	−139.0 dBm/Hz	0.57 dB	
21750 MHz	140 MHz	HIGH	−147.59 dBm/Hz	−136.0 dBm/Hz	0.57 dB	
30000 MHz	140 MHz	HIGH	−145.52 dBm/Hz	−130.0 dBm/Hz	0.57 dB	
42200 MHz	140 MHz	HIGH	−141.44 dBm/Hz	−130.0 dBm/Hz	0.57 dB	

Displayed Average Noise Level — Passed



Preamp Off

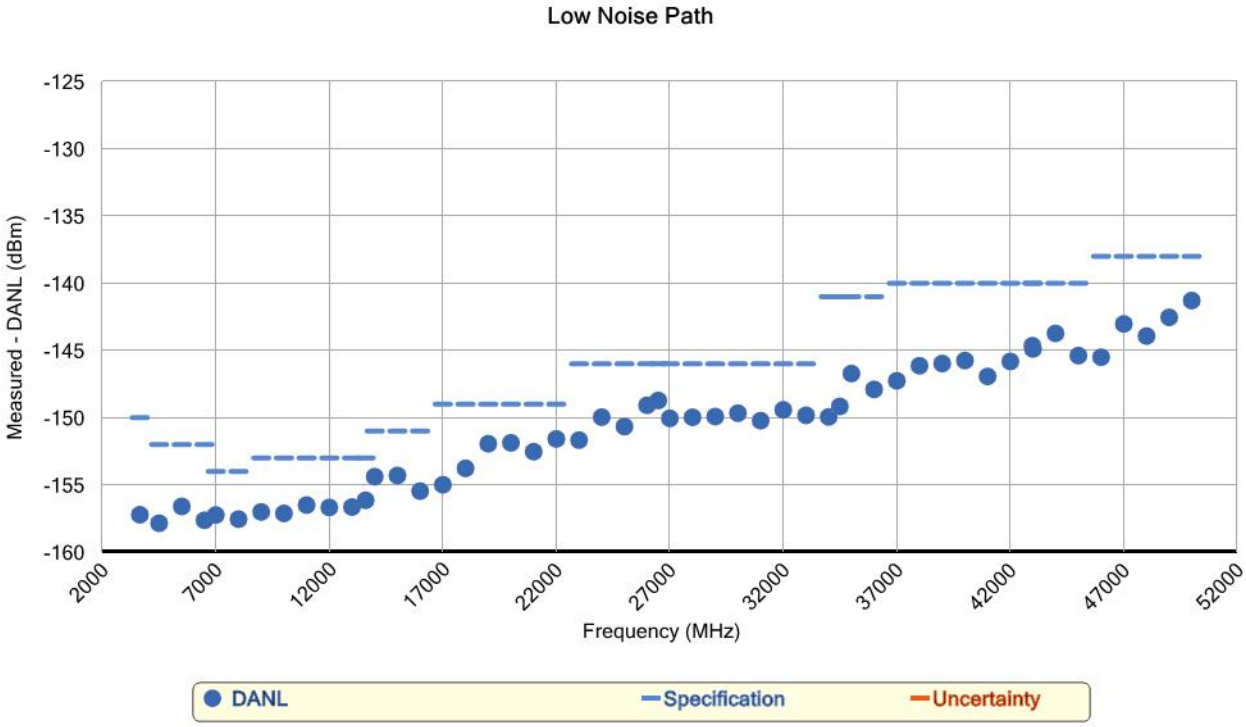
Frequency	Measured	Maximum	Uncert.	Status
0.05 MHz	−156.18 dBm	−146.00 dBm	0.33 dB	
0.50 MHz	−159.07 dBm	−150.00 dBm	0.33 dB	
1.00 MHz	−158.94 dBm	−155.00 dBm	0.33 dB	
9.90 MHz	−159.04 dBm	−155.00 dBm	0.33 dB	
41.00 MHz	−159.45 dBm	−154.00 dBm	0.33 dB	
71.00 MHz	−159.13 dBm	−154.00 dBm	0.33 dB	
101.00 MHz	−159.47 dBm	−154.00 dBm	0.33 dB	
201.00 MHz	−159.44 dBm	−154.00 dBm	0.33 dB	
401.00 MHz	−158.63 dBm	−154.00 dBm	0.33 dB	
601.00 MHz	−158.63 dBm	−154.00 dBm	0.33 dB	
801.00 MHz	−157.90 dBm	−154.00 dBm	0.33 dB	
1001.00 MHz	−157.96 dBm	−154.00 dBm	0.33 dB	
1010.00 MHz	−158.05 dBm	−154.00 dBm	0.33 dB	
1201.00 MHz	−157.51 dBm	−153.00 dBm	0.33 dB	
1401.00 MHz	−157.26 dBm	−153.00 dBm	0.33 dB	
1601.00 MHz	−156.94 dBm	−153.00 dBm	0.33 dB	
1801.00 MHz	−156.76 dBm	−153.00 dBm	0.33 dB	
2001.00 MHz	−156.55 dBm	−153.00 dBm	0.33 dB	

Displayed Average Noise Level (cont.)

Frequency	Measured	Maximum	Uncert.	Status
2201.00 MHz	−155.94 dBm	−151.00 dBm	0.33 dB	
2401.00 MHz	−155.50 dBm	−151.00 dBm	0.33 dB	
2601.00 MHz	−155.04 dBm	−151.00 dBm	0.33 dB	
2801.00 MHz	−154.96 dBm	−151.00 dBm	0.33 dB	
3001.00 MHz	−154.75 dBm	−151.00 dBm	0.33 dB	
3591.00 MHz	−154.40 dBm	−151.00 dBm	0.33 dB	
3651.00 MHz	−150.80 dBm	−143.00 dBm	0.33 dB	
4501.00 MHz	−151.43 dBm	−144.00 dBm	0.33 dB	
5501.00 MHz	−150.36 dBm	−144.00 dBm	0.33 dB	
6501.00 MHz	−151.81 dBm	−144.00 dBm	0.33 dB	
7001.00 MHz	−151.29 dBm	−147.00 dBm	0.33 dB	
8001.00 MHz	−151.04 dBm	−147.00 dBm	0.33 dB	
9001.00 MHz	−150.95 dBm	−147.00 dBm	0.33 dB	
10001.00 MHz	−151.16 dBm	−147.00 dBm	0.33 dB	
11001.00 MHz	−150.19 dBm	−147.00 dBm	0.33 dB	
12001.00 MHz	−150.73 dBm	−147.00 dBm	0.33 dB	
13001.00 MHz	−151.33 dBm	−147.00 dBm	0.33 dB	
13599.00 MHz	−151.02 dBm	−147.00 dBm	0.33 dB	
14001.00 MHz	−149.02 dBm	−145.00 dBm	0.33 dB	
15001.00 MHz	−148.85 dBm	−145.00 dBm	0.33 dB	
16001.00 MHz	−149.44 dBm	−145.00 dBm	0.33 dB	
17001.00 MHz	−149.22 dBm	−141.00 dBm	0.33 dB	
18001.00 MHz	−148.32 dBm	−141.00 dBm	0.33 dB	
19001.00 MHz	−146.53 dBm	−141.00 dBm	0.33 dB	
20001.00 MHz	−145.79 dBm	−141.00 dBm	0.33 dB	
21001.00 MHz	−146.13 dBm	−141.00 dBm	0.33 dB	
22001.00 MHz	−145.32 dBm	−141.00 dBm	0.33 dB	
23001.00 MHz	−145.32 dBm	−139.00 dBm	0.33 dB	
24001.00 MHz	−144.35 dBm	−139.00 dBm	0.33 dB	
25001.00 MHz	−144.57 dBm	−139.00 dBm	0.33 dB	
26001.00 MHz	−142.64 dBm	−139.00 dBm	0.33 dB	
26491.00 MHz	−142.15 dBm	−139.00 dBm	0.33 dB	
27001.00 MHz	−142.94 dBm	−138.00 dBm	0.33 dB	
28001.00 MHz	−142.19 dBm	−138.00 dBm	0.33 dB	
29001.00 MHz	−143.19 dBm	−138.00 dBm	0.33 dB	
30001.00 MHz	−142.25 dBm	−138.00 dBm	0.33 dB	
31001.00 MHz	−143.90 dBm	−138.00 dBm	0.33 dB	
32001.00 MHz	−142.93 dBm	−138.00 dBm	0.33 dB	
33001.00 MHz	−142.39 dBm	−138.00 dBm	0.33 dB	
34001.00 MHz	−143.45 dBm	−134.00 dBm	0.33 dB	
34491.00 MHz	−143.31 dBm	−134.00 dBm	0.33 dB	
35001.00 MHz	−139.85 dBm	−134.00 dBm	0.33 dB	
36001.00 MHz	−139.13 dBm	−134.00 dBm	0.33 dB	
37001.00 MHz	−139.45 dBm	−132.00 dBm	0.33 dB	
38001.00 MHz	−138.63 dBm	−132.00 dBm	0.33 dB	
39001.00 MHz	−137.39 dBm	−132.00 dBm	0.33 dB	
40001.00 MHz	−137.91 dBm	−130.00 dBm	0.33 dB	
41001.00 MHz	−138.36 dBm	−130.00 dBm	0.33 dB	
42001.00 MHz	−137.84 dBm	−130.00 dBm	0.33 dB	
42971.00 MHz	−136.81 dBm	−130.00 dBm	0.33 dB	
43001.00 MHz	−137.50 dBm	−130.00 dBm	0.33 dB	

Displayed Average Noise Level (cont.)

Frequency	Measured	Maximum	Uncert.	Status
43991.00 MHz	−136.11 dBm	−130.00 dBm	0.33 dB	
45001.00 MHz	−137.32 dBm	−130.00 dBm	0.33 dB	
46001.00 MHz	−136.72 dBm	−130.00 dBm	0.33 dB	
47001.00 MHz	−135.89 dBm	−130.00 dBm	0.33 dB	
48001.00 MHz	−136.68 dBm	−130.00 dBm	0.33 dB	
49001.00 MHz	−135.00 dBm	−128.00 dBm	0.33 dB	
49991.00 MHz	−132.46 dBm	−128.00 dBm	0.33 dB	



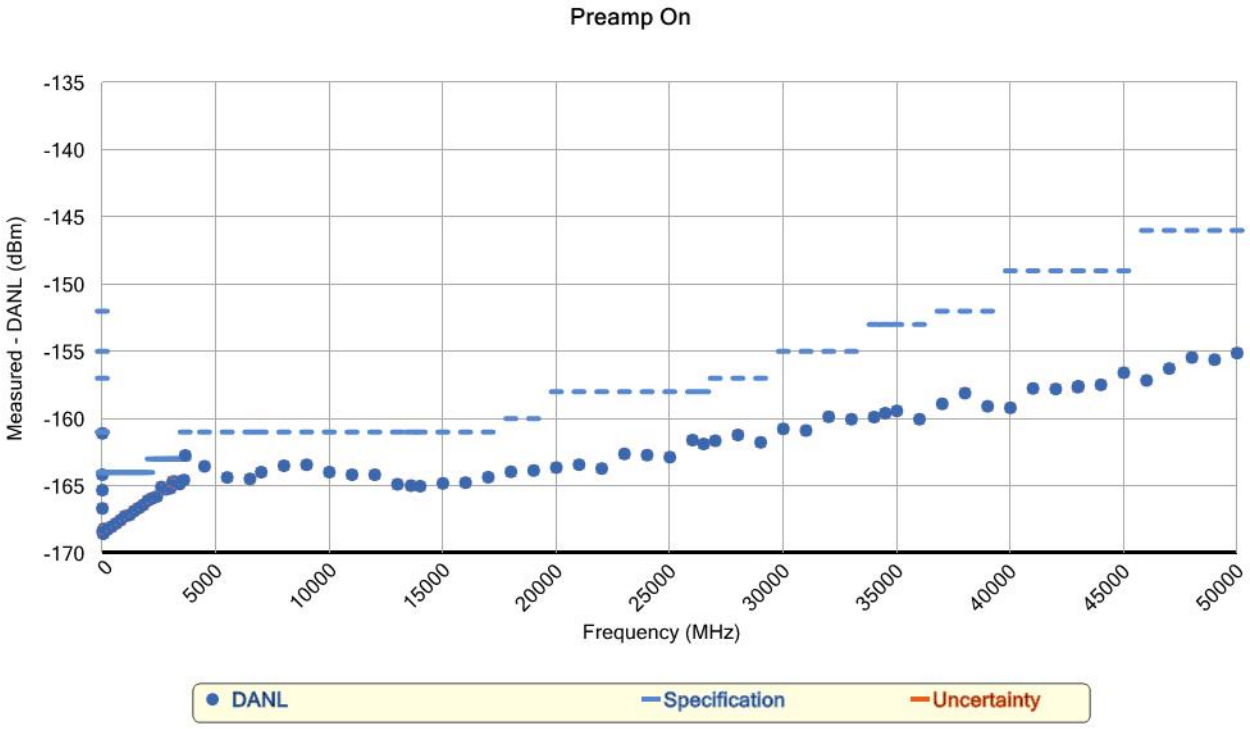
Low Noise Path

Frequency	Measured	Maximum	Uncert.	Status
3651.00 MHz	−157.22 dBm	−150.00 dBm	0.33 dB	
4501.00 MHz	−157.85 dBm	−152.00 dBm	0.33 dB	
5501.00 MHz	−156.60 dBm	−152.00 dBm	0.33 dB	
6501.00 MHz	−157.63 dBm	−152.00 dBm	0.33 dB	
7001.00 MHz	−157.24 dBm	−154.00 dBm	0.33 dB	
8001.00 MHz	−157.55 dBm	−154.00 dBm	0.33 dB	
9001.00 MHz	−157.01 dBm	−153.00 dBm	0.33 dB	
10001.00 MHz	−157.12 dBm	−153.00 dBm	0.33 dB	
11001.00 MHz	−156.50 dBm	−153.00 dBm	0.33 dB	
12001.00 MHz	−156.68 dBm	−153.00 dBm	0.33 dB	
13001.00 MHz	−156.65 dBm	−153.00 dBm	0.33 dB	
13599.00 MHz	−156.14 dBm	−153.00 dBm	0.33 dB	

Displayed Average Noise Level (cont.)

Frequency	Measured	Maximum	Uncert.	Status
14001.00 MHz	−154.39 dBm	−151.00 dBm	0.33 dB	
15001.00 MHz	−154.30 dBm	−151.00 dBm	0.33 dB	
16001.00 MHz	−155.46 dBm	−151.00 dBm	0.33 dB	
17001.00 MHz	−154.99 dBm	−149.00 dBm	0.33 dB	
18001.00 MHz	−153.77 dBm	−149.00 dBm	0.33 dB	
19001.00 MHz	−151.94 dBm	−149.00 dBm	0.33 dB	
20001.00 MHz	−151.87 dBm	−149.00 dBm	0.33 dB	
21001.00 MHz	−152.53 dBm	−149.00 dBm	0.33 dB	
22001.00 MHz	−151.58 dBm	−149.00 dBm	0.33 dB	
23001.00 MHz	−151.67 dBm	−146.00 dBm	0.33 dB	
24001.00 MHz	−149.96 dBm	−146.00 dBm	0.33 dB	
25001.00 MHz	−150.66 dBm	−146.00 dBm	0.33 dB	
26001.00 MHz	−149.08 dBm	−146.00 dBm	0.33 dB	
26491.00 MHz	−148.72 dBm	−146.00 dBm	0.33 dB	
27001.00 MHz	−150.05 dBm	−146.00 dBm	0.33 dB	
28001.00 MHz	−149.97 dBm	−146.00 dBm	0.33 dB	
29001.00 MHz	−149.92 dBm	−146.00 dBm	0.33 dB	
30001.00 MHz	−149.67 dBm	−146.00 dBm	0.33 dB	
31001.00 MHz	−150.22 dBm	−146.00 dBm	0.33 dB	
32001.00 MHz	−149.42 dBm	−146.00 dBm	0.33 dB	
33001.00 MHz	−149.82 dBm	−146.00 dBm	0.33 dB	
34001.00 MHz	−149.94 dBm	−141.00 dBm	0.33 dB	
34491.00 MHz	−149.16 dBm	−141.00 dBm	0.33 dB	
35001.00 MHz	−146.72 dBm	−141.00 dBm	0.33 dB	
36001.00 MHz	−147.90 dBm	−141.00 dBm	0.33 dB	
37001.00 MHz	−147.26 dBm	−140.00 dBm	0.33 dB	
38001.00 MHz	−146.14 dBm	−140.00 dBm	0.33 dB	
39001.00 MHz	−145.97 dBm	−140.00 dBm	0.33 dB	
40001.00 MHz	−145.75 dBm	−140.00 dBm	0.33 dB	
41001.00 MHz	−146.93 dBm	−140.00 dBm	0.33 dB	
42001.00 MHz	−145.82 dBm	−140.00 dBm	0.33 dB	
42971.00 MHz	−144.65 dBm	−140.00 dBm	0.33 dB	
43001.00 MHz	−144.89 dBm	−140.00 dBm	0.33 dB	
43991.00 MHz	−143.73 dBm	−140.00 dBm	0.33 dB	
45001.00 MHz	−145.38 dBm	−140.00 dBm	0.33 dB	
46001.00 MHz	−145.50 dBm	−138.00 dBm	0.33 dB	
47001.00 MHz	−143.03 dBm	−138.00 dBm	0.33 dB	
48001.00 MHz	−143.93 dBm	−138.00 dBm	0.33 dB	
49001.00 MHz	−142.54 dBm	−138.00 dBm	0.33 dB	
49991.00 MHz	−141.29 dBm	−138.00 dBm	0.33 dB	

Displayed Average Noise Level (cont.)



Preamp On

Frequency	Measured	Maximum	Uncert.	Status
0.15 MHz	−161.09 dBm	−152.00 dBm	0.33 dB	
0.30 MHz	−164.16 dBm	−155.00 dBm	0.33 dB	
0.60 MHz	−165.31 dBm	−157.00 dBm	0.33 dB	
1.00 MHz	−166.68 dBm	−161.00 dBm	0.33 dB	
9.90 MHz	−168.39 dBm	−161.00 dBm	0.33 dB	
41.00 MHz	−168.56 dBm	−164.00 dBm	0.33 dB	
71.00 MHz	−168.19 dBm	−164.00 dBm	0.33 dB	
101.00 MHz	−168.26 dBm	−164.00 dBm	0.33 dB	
201.00 MHz	−168.26 dBm	−164.00 dBm	0.33 dB	
401.00 MHz	−168.04 dBm	−164.00 dBm	0.33 dB	
601.00 MHz	−167.80 dBm	−164.00 dBm	0.33 dB	
801.00 MHz	−167.55 dBm	−164.00 dBm	0.33 dB	
1001.00 MHz	−167.25 dBm	−164.00 dBm	0.33 dB	
1201.00 MHz	−167.16 dBm	−164.00 dBm	0.33 dB	
1401.00 MHz	−166.87 dBm	−164.00 dBm	0.33 dB	
1601.00 MHz	−166.65 dBm	−164.00 dBm	0.33 dB	
1801.00 MHz	−166.42 dBm	−164.00 dBm	0.33 dB	
2001.00 MHz	−166.09 dBm	−164.00 dBm	0.33 dB	
2201.00 MHz	−165.92 dBm	−163.00 dBm	0.33 dB	
2401.00 MHz	−165.79 dBm	−163.00 dBm	0.33 dB	
2601.00 MHz	−165.08 dBm	−163.00 dBm	0.33 dB	

Displayed Average Noise Level (cont.)

Frequency	Measured	Maximum	Uncert.	Status
2801.00 MHz	−165.25 dBm	−163.00 dBm	0.33 dB	
3001.00 MHz	−165.17 dBm	−163.00 dBm	0.33 dB	
3101.00 MHz	−164.68 dBm	−163.00 dBm	0.33 dB	
3201.00 MHz	−164.68 dBm	−163.00 dBm	0.33 dB	
3301.00 MHz	−164.81 dBm	−163.00 dBm	0.33 dB	
3401.00 MHz	−164.86 dBm	−163.00 dBm	0.33 dB	
3591.00 MHz	−164.56 dBm	−163.00 dBm	0.33 dB	
3651.00 MHz	−162.73 dBm	−161.00 dBm	0.33 dB	
4501.00 MHz	−163.54 dBm	−161.00 dBm	0.33 dB	
5501.00 MHz	−164.37 dBm	−161.00 dBm	0.33 dB	
6501.00 MHz	−164.48 dBm	−161.00 dBm	0.33 dB	
6999.00 MHz	−163.98 dBm	−161.00 dBm	0.33 dB	
8001.00 MHz	−163.50 dBm	−161.00 dBm	0.33 dB	
9001.00 MHz	−163.43 dBm	−161.00 dBm	0.33 dB	
10001.00 MHz	−163.97 dBm	−161.00 dBm	0.33 dB	
11001.00 MHz	−164.17 dBm	−161.00 dBm	0.33 dB	
12001.00 MHz	−164.17 dBm	−161.00 dBm	0.33 dB	
13001.00 MHz	−164.88 dBm	−161.00 dBm	0.33 dB	
13599.00 MHz	−164.98 dBm	−161.00 dBm	0.33 dB	
14001.00 MHz	−165.02 dBm	−161.00 dBm	0.33 dB	
15001.00 MHz	−164.81 dBm	−161.00 dBm	0.33 dB	
16001.00 MHz	−164.76 dBm	−161.00 dBm	0.33 dB	
17001.00 MHz	−164.35 dBm	−161.00 dBm	0.33 dB	
18001.00 MHz	−163.95 dBm	−160.00 dBm	0.33 dB	
19001.00 MHz	−163.85 dBm	−160.00 dBm	0.33 dB	
20001.00 MHz	−163.64 dBm	−158.00 dBm	0.33 dB	
21001.00 MHz	−163.42 dBm	−158.00 dBm	0.33 dB	
22001.00 MHz	−163.71 dBm	−158.00 dBm	0.33 dB	
23001.00 MHz	−162.62 dBm	−158.00 dBm	0.33 dB	
24001.00 MHz	−162.71 dBm	−158.00 dBm	0.33 dB	
25001.00 MHz	−162.86 dBm	−158.00 dBm	0.33 dB	
26001.00 MHz	−161.59 dBm	−158.00 dBm	0.33 dB	
26491.00 MHz	−161.88 dBm	−158.00 dBm	0.33 dB	
27001.00 MHz	−161.64 dBm	−157.00 dBm	0.33 dB	
28001.00 MHz	−161.21 dBm	−157.00 dBm	0.33 dB	
29001.00 MHz	−161.76 dBm	−157.00 dBm	0.33 dB	
30001.00 MHz	−160.76 dBm	−155.00 dBm	0.33 dB	
31001.00 MHz	−160.88 dBm	−155.00 dBm	0.33 dB	
32001.00 MHz	−159.86 dBm	−155.00 dBm	0.33 dB	
33001.00 MHz	−160.04 dBm	−155.00 dBm	0.33 dB	
34001.00 MHz	−159.88 dBm	−153.00 dBm	0.33 dB	
34491.00 MHz	−159.59 dBm	−153.00 dBm	0.33 dB	
35001.00 MHz	−159.42 dBm	−153.00 dBm	0.33 dB	
36001.00 MHz	−160.04 dBm	−153.00 dBm	0.33 dB	
37001.00 MHz	−158.89 dBm	−152.00 dBm	0.33 dB	
38001.00 MHz	−158.10 dBm	−152.00 dBm	0.33 dB	
39001.00 MHz	−159.08 dBm	−152.00 dBm	0.33 dB	
40001.00 MHz	−159.19 dBm	−149.00 dBm	0.33 dB	
41001.00 MHz	−157.75 dBm	−149.00 dBm	0.33 dB	
42001.00 MHz	−157.79 dBm	−149.00 dBm	0.33 dB	
42971.00 MHz	−157.66 dBm	−149.00 dBm	0.33 dB	

Displayed Average Noise Level (cont.)

Frequency	Measured	Maximum	Uncert.	Status
43001.00 MHz	−157.58 dBm	−149.00 dBm	0.33 dB	
43991.00 MHz	−157.48 dBm	−149.00 dBm	0.33 dB	
45001.00 MHz	−156.58 dBm	−149.00 dBm	0.33 dB	
46001.00 MHz	−157.15 dBm	−146.00 dBm	0.33 dB	
47001.00 MHz	−156.27 dBm	−146.00 dBm	0.33 dB	
48001.00 MHz	−155.45 dBm	−146.00 dBm	0.33 dB	
49001.00 MHz	−155.61 dBm	−146.00 dBm	0.33 dB	
49991.00 MHz	−155.12 dBm	−146.00 dBm	0.33 dB	

Frequency Readout Accuracy **Passed**

Center Frequency	Span	RBW	Minimum	Measured	Maximum	Uncertainty	Sts
517.59 MHz	1.980 MHz	0.018 MHz	−2.9 kHz	0.00 kHz	2.9 kHz	0.30 kHz	
832.50 MHz	1.980 MHz	0.018 MHz	−2.9 kHz	0.40 kHz	2.9 kHz	0.30 kHz	
1505.00 MHz	318.000 MHz	3.000 MHz	−476.0 kHz	95.40 kHz	476.0 kHz	49 kHz	
1505.00 MHz	127.200 MHz	1.200 MHz	−190.4 kHz	−6.36 kHz	190.4 kHz	19 kHz	
1505.00 MHz	54.100 MHz	0.510 MHz	−81.0 kHz	2.71 kHz	81.0 kHz	8.3 kHz	
1505.00 MHz	7.950 MHz	0.075 MHz	−11.9 kHz	0.80 kHz	11.9 kHz	1.2 kHz	
1505.00 MHz	0.106 MHz	0.001 MHz	−0.2 kHz	−0.01 kHz	0.2 kHz	0.016 kHz	

Frequency Span Accuracy **Passed**

Sweep Points = 20001

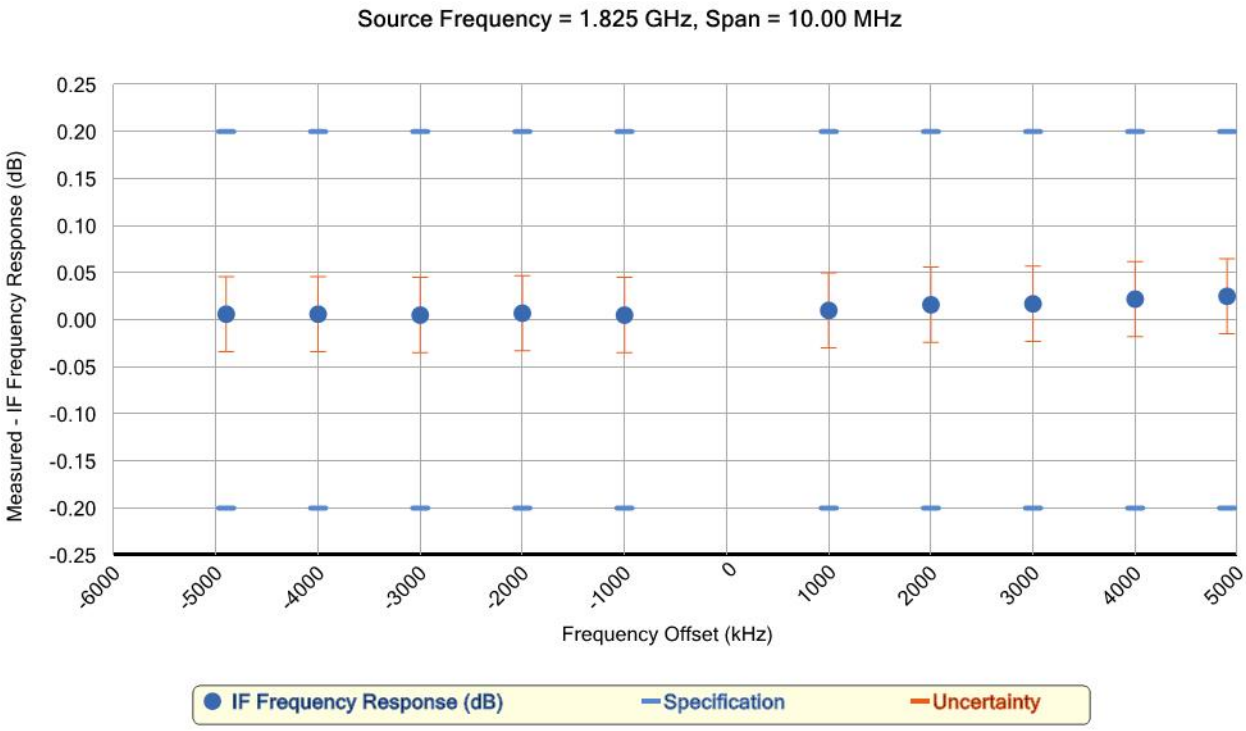
Center Frequency	Span	Resolution Bandwidth	Minimum	Measured	Maximum	Uncert.	Status
200.00 MHz	17.00 MHz	8.20 kHz	−0.105 %	0.006 %	0.105 %	0.0041 %	
350.00 MHz	680.00 MHz	68.00 kHz	−0.110 %	0.000 %	0.110 %	0.0082 %	
1377.50 MHz	1600.00 MHz	160.00 kHz	−0.110 %	0.000 %	0.110 %	0.0082 %	
1415.00 MHz	1570.00 MHz	160.00 kHz	−0.110 %	0.000 %	0.110 %	0.0082 %	
1805.00 MHz	3590.00 MHz	360.00 kHz	−0.110 %	0.000 %	0.110 %	0.0082 %	
2800.00 MHz	1600.00 MHz	160.00 kHz	−0.110 %	0.000 %	0.110 %	0.0082 %	
2838.75 MHz	1522.50 MHz	150.00 kHz	−0.110 %	0.000 %	0.110 %	0.0082 %	

Count Accuracy **Passed**

Frequency = 1.00 GHz

Center Frequency	Frequency Count	Minimum	Measured	Maximum	Uncertainty	Status
1.00 GHz	999999999.998 Hz	−0.10 Hz	−0.0022 Hz	0.10 Hz	0.0050 Hz	

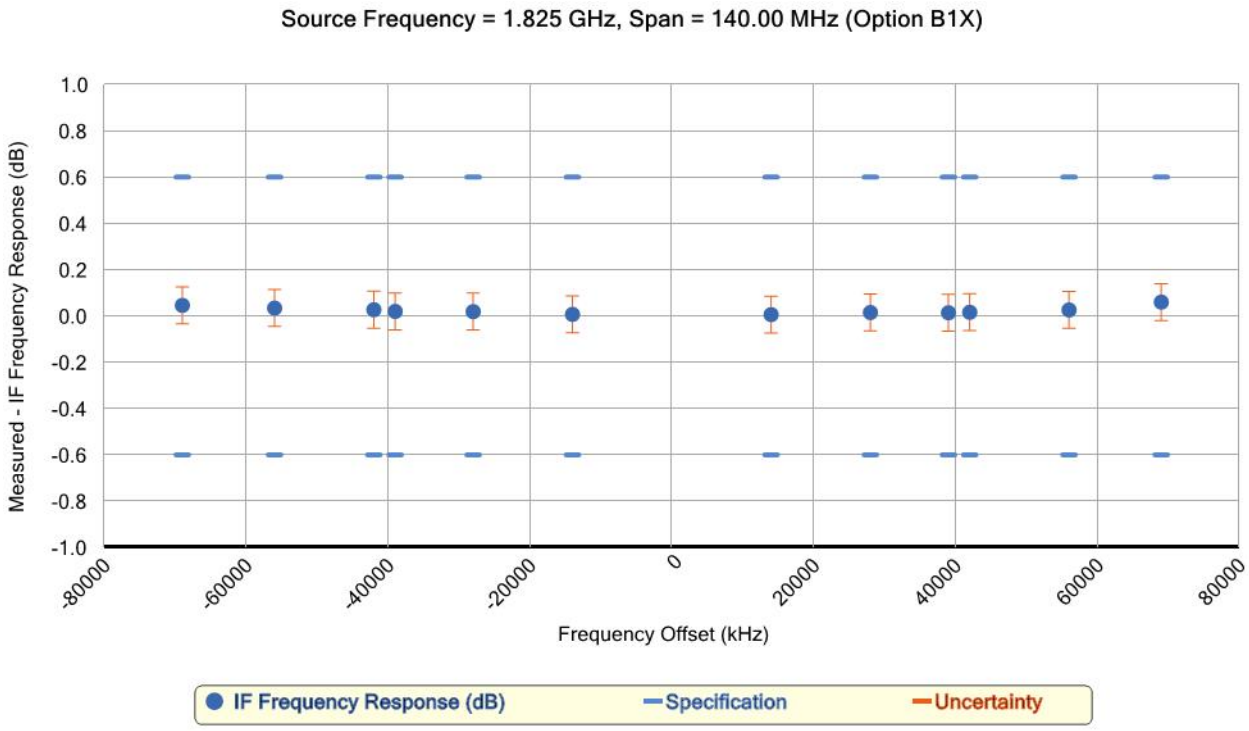
IF Frequency Response — Passed



Source Frequency = 1.825 GHz, Span = 10.00 MHz

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−4900.00 kHz	−0.20 dB	0.006 dB	0.20 dB	0.040 dB	
−4000.00 kHz	−0.20 dB	0.006 dB	0.20 dB	0.040 dB	
−3000.00 kHz	−0.20 dB	0.005 dB	0.20 dB	0.040 dB	
−2000.00 kHz	−0.20 dB	0.007 dB	0.20 dB	0.040 dB	
−1000.00 kHz	−0.20 dB	0.005 dB	0.20 dB	0.040 dB	
1000.00 kHz	−0.20 dB	0.010 dB	0.20 dB	0.040 dB	
2000.00 kHz	−0.20 dB	0.016 dB	0.20 dB	0.040 dB	
3000.00 kHz	−0.20 dB	0.017 dB	0.20 dB	0.040 dB	
4000.00 kHz	−0.20 dB	0.022 dB	0.20 dB	0.040 dB	
4900.00 kHz	−0.20 dB	0.025 dB	0.20 dB	0.040 dB	

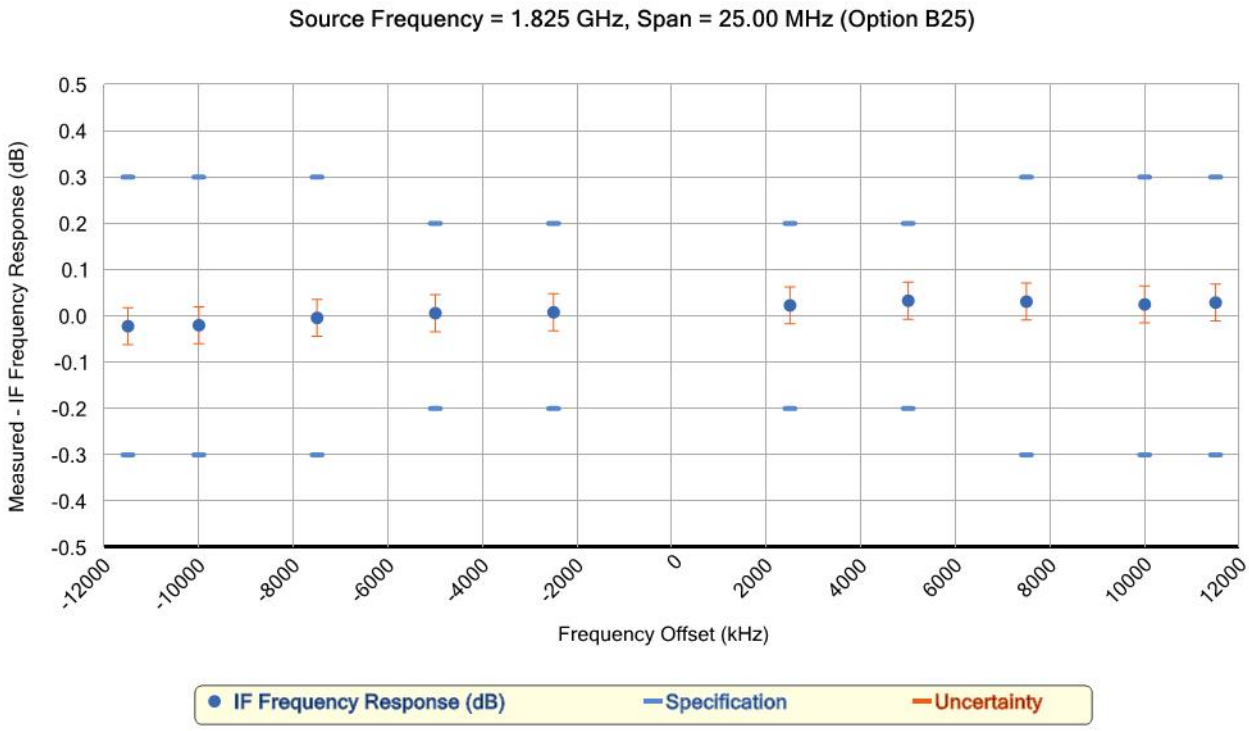
IF Frequency Response (cont.)



Source Frequency = 1.825 GHz, Span = 140.00 MHz (Option B1X)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−69000.00 kHz	−0.60 dB	0.046 dB	0.60 dB	0.080 dB	
−56000.00 kHz	−0.60 dB	0.034 dB	0.60 dB	0.080 dB	
−42000.00 kHz	−0.60 dB	0.027 dB	0.60 dB	0.080 dB	
−39000.00 kHz	−0.60 dB	0.020 dB	0.60 dB	0.080 dB	
−28000.00 kHz	−0.60 dB	0.019 dB	0.60 dB	0.080 dB	
−14000.00 kHz	−0.60 dB	0.007 dB	0.60 dB	0.080 dB	
14000.00 kHz	−0.60 dB	0.006 dB	0.60 dB	0.080 dB	
28000.00 kHz	−0.60 dB	0.015 dB	0.60 dB	0.080 dB	
39000.00 kHz	−0.60 dB	0.014 dB	0.60 dB	0.080 dB	
42000.00 kHz	−0.60 dB	0.016 dB	0.60 dB	0.080 dB	
56000.00 kHz	−0.60 dB	0.026 dB	0.60 dB	0.080 dB	
69000.00 kHz	−0.60 dB	0.060 dB	0.60 dB	0.080 dB	

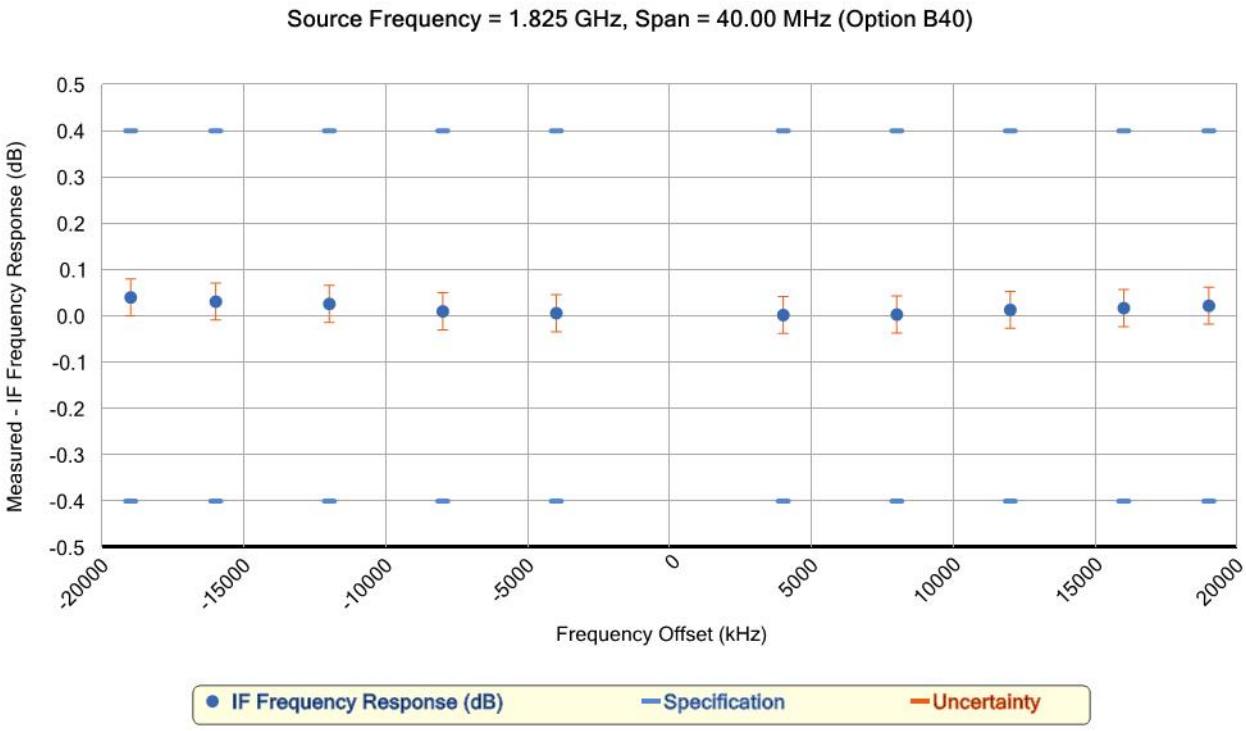
IF Frequency Response (cont.)



Source Frequency = 1.825 GHz, Span = 25.00 MHz (Option B25)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−11500.00 kHz	−0.30 dB	−0.022 dB	0.30 dB	0.040 dB	
−10000.00 kHz	−0.30 dB	−0.020 dB	0.30 dB	0.040 dB	
−7500.00 kHz	−0.30 dB	−0.004 dB	0.30 dB	0.040 dB	
−5000.00 kHz	−0.20 dB	0.006 dB	0.20 dB	0.040 dB	
−2500.00 kHz	−0.20 dB	0.008 dB	0.20 dB	0.040 dB	
2500.00 kHz	−0.20 dB	0.023 dB	0.20 dB	0.040 dB	
5000.00 kHz	−0.20 dB	0.033 dB	0.20 dB	0.040 dB	
7500.00 kHz	−0.30 dB	0.031 dB	0.30 dB	0.040 dB	
10000.00 kHz	−0.30 dB	0.025 dB	0.30 dB	0.040 dB	
11500.00 kHz	−0.30 dB	0.029 dB	0.30 dB	0.040 dB	

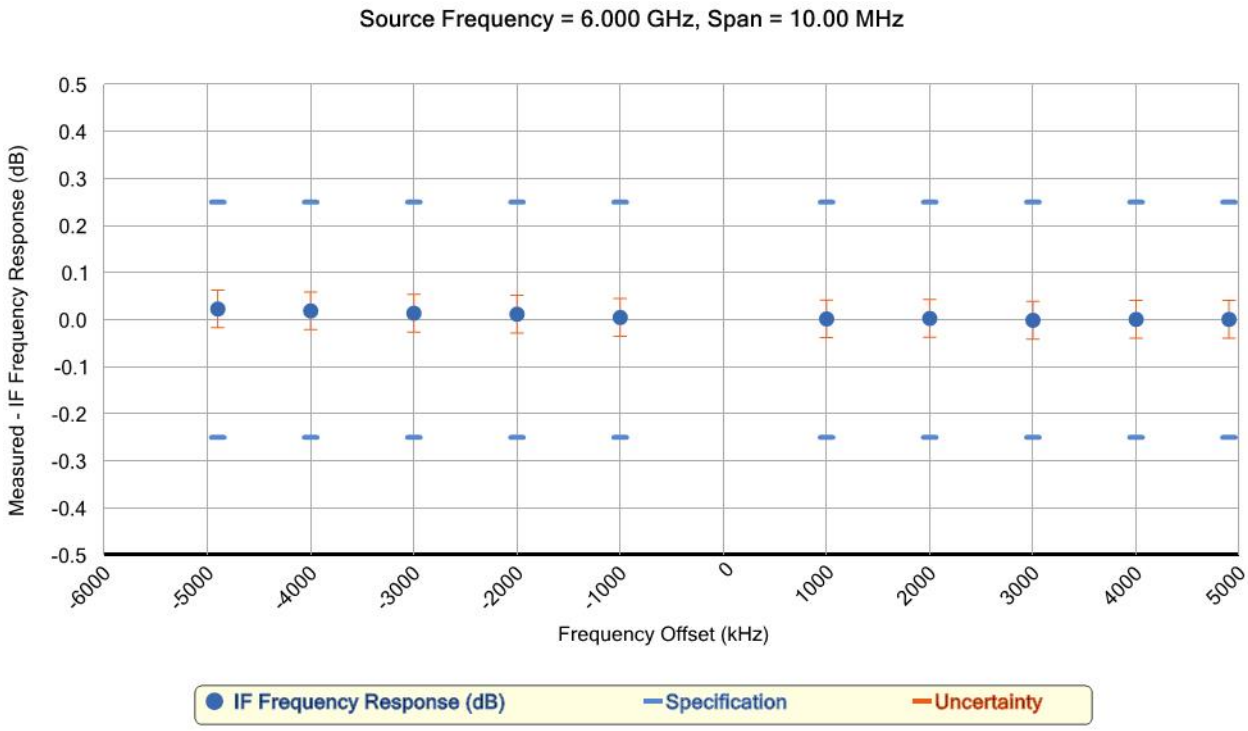
IF Frequency Response (cont.)



Source Frequency = 1.825 GHz, Span = 40.00 MHz (Option B40)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−19000.00 kHz	−0.40 dB	0.040 dB	0.40 dB	0.040 dB	
−16000.00 kHz	−0.40 dB	0.031 dB	0.40 dB	0.040 dB	
−12000.00 kHz	−0.40 dB	0.026 dB	0.40 dB	0.040 dB	
−8000.00 kHz	−0.40 dB	0.010 dB	0.40 dB	0.040 dB	
−4000.00 kHz	−0.40 dB	0.006 dB	0.40 dB	0.040 dB	
4000.00 kHz	−0.40 dB	0.002 dB	0.40 dB	0.040 dB	
8000.00 kHz	−0.40 dB	0.003 dB	0.40 dB	0.040 dB	
12000.00 kHz	−0.40 dB	0.013 dB	0.40 dB	0.040 dB	
16000.00 kHz	−0.40 dB	0.017 dB	0.40 dB	0.040 dB	
19000.00 kHz	−0.40 dB	0.022 dB	0.40 dB	0.040 dB	

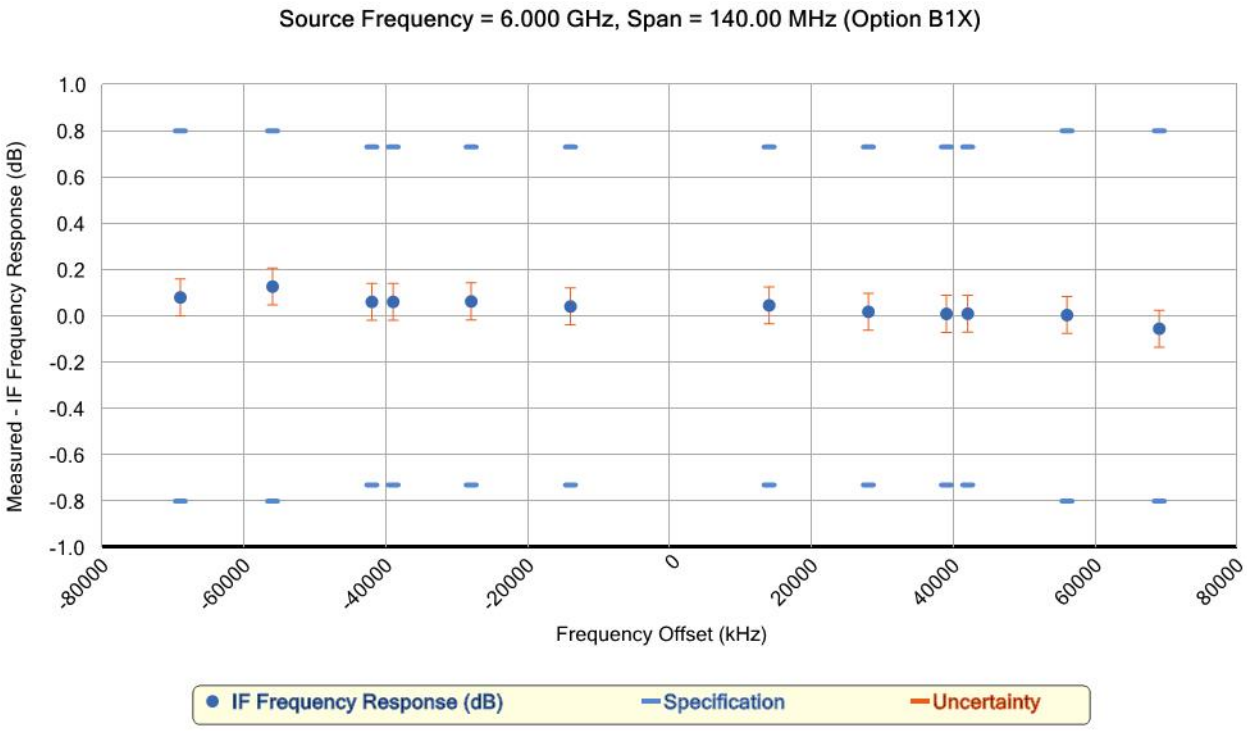
IF Frequency Response (cont.)



Source Frequency = 6.000 GHz, Span = 10.00 MHz

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−4900.00 kHz	−0.25 dB	0.023 dB	0.25 dB	0.040 dB	
−4000.00 kHz	−0.25 dB	0.019 dB	0.25 dB	0.040 dB	
−3000.00 kHz	−0.25 dB	0.014 dB	0.25 dB	0.040 dB	
−2000.00 kHz	−0.25 dB	0.012 dB	0.25 dB	0.040 dB	
−1000.00 kHz	−0.25 dB	0.005 dB	0.25 dB	0.040 dB	
1000.00 kHz	−0.25 dB	0.002 dB	0.25 dB	0.040 dB	
2000.00 kHz	−0.25 dB	0.003 dB	0.25 dB	0.040 dB	
3000.00 kHz	−0.25 dB	−0.001 dB	0.25 dB	0.040 dB	
4000.00 kHz	−0.25 dB	0.001 dB	0.25 dB	0.040 dB	
4900.00 kHz	−0.25 dB	0.001 dB	0.25 dB	0.040 dB	

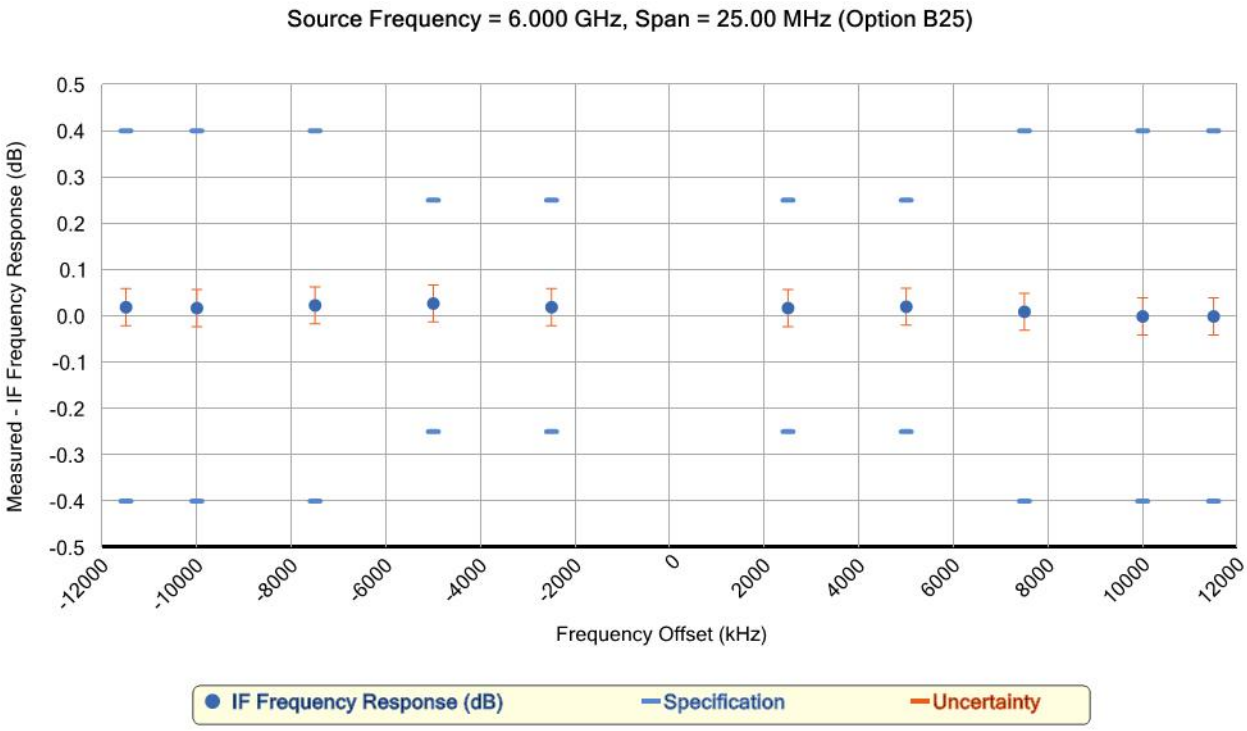
IF Frequency Response (cont.)



Source Frequency = 6.000 GHz, Span = 140.00 MHz (Option B1X)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−69000.00 kHz	−0.80 dB	0.080 dB	0.80 dB	0.080 dB	
−56000.00 kHz	−0.80 dB	0.127 dB	0.80 dB	0.080 dB	
−42000.00 kHz	−0.73 dB	0.061 dB	0.73 dB	0.080 dB	
−39000.00 kHz	−0.73 dB	0.061 dB	0.73 dB	0.080 dB	
−28000.00 kHz	−0.73 dB	0.063 dB	0.73 dB	0.080 dB	
−14000.00 kHz	−0.73 dB	0.041 dB	0.73 dB	0.080 dB	
14000.00 kHz	−0.73 dB	0.046 dB	0.73 dB	0.080 dB	
28000.00 kHz	−0.73 dB	0.018 dB	0.73 dB	0.080 dB	
39000.00 kHz	−0.73 dB	0.009 dB	0.73 dB	0.080 dB	
42000.00 kHz	−0.73 dB	0.010 dB	0.73 dB	0.080 dB	
56000.00 kHz	−0.80 dB	0.004 dB	0.80 dB	0.080 dB	
69000.00 kHz	−0.80 dB	−0.055 dB	0.80 dB	0.080 dB	

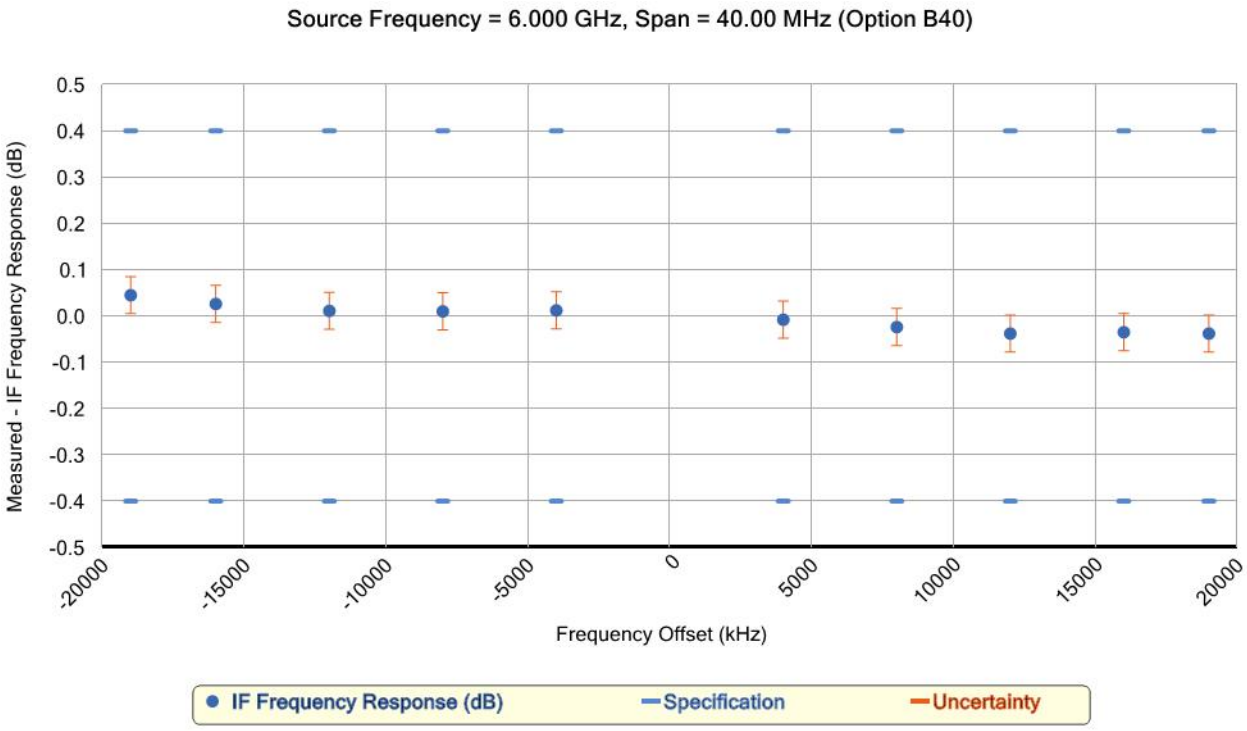
IF Frequency Response (cont.)



Source Frequency = 6.000 GHz, Span = 25.00 MHz (Option B25)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−11500.00 kHz	−0.40 dB	0.019 dB	0.40 dB	0.040 dB	
−10000.00 kHz	−0.40 dB	0.017 dB	0.40 dB	0.040 dB	
−7500.00 kHz	−0.40 dB	0.023 dB	0.40 dB	0.040 dB	
−5000.00 kHz	−0.25 dB	0.027 dB	0.25 dB	0.040 dB	
−2500.00 kHz	−0.25 dB	0.019 dB	0.25 dB	0.040 dB	
2500.00 kHz	−0.25 dB	0.017 dB	0.25 dB	0.040 dB	
5000.00 kHz	−0.25 dB	0.020 dB	0.25 dB	0.040 dB	
7500.00 kHz	−0.40 dB	0.009 dB	0.40 dB	0.040 dB	
10000.00 kHz	−0.40 dB	−0.001 dB	0.40 dB	0.040 dB	
11500.00 kHz	−0.40 dB	−0.001 dB	0.40 dB	0.040 dB	

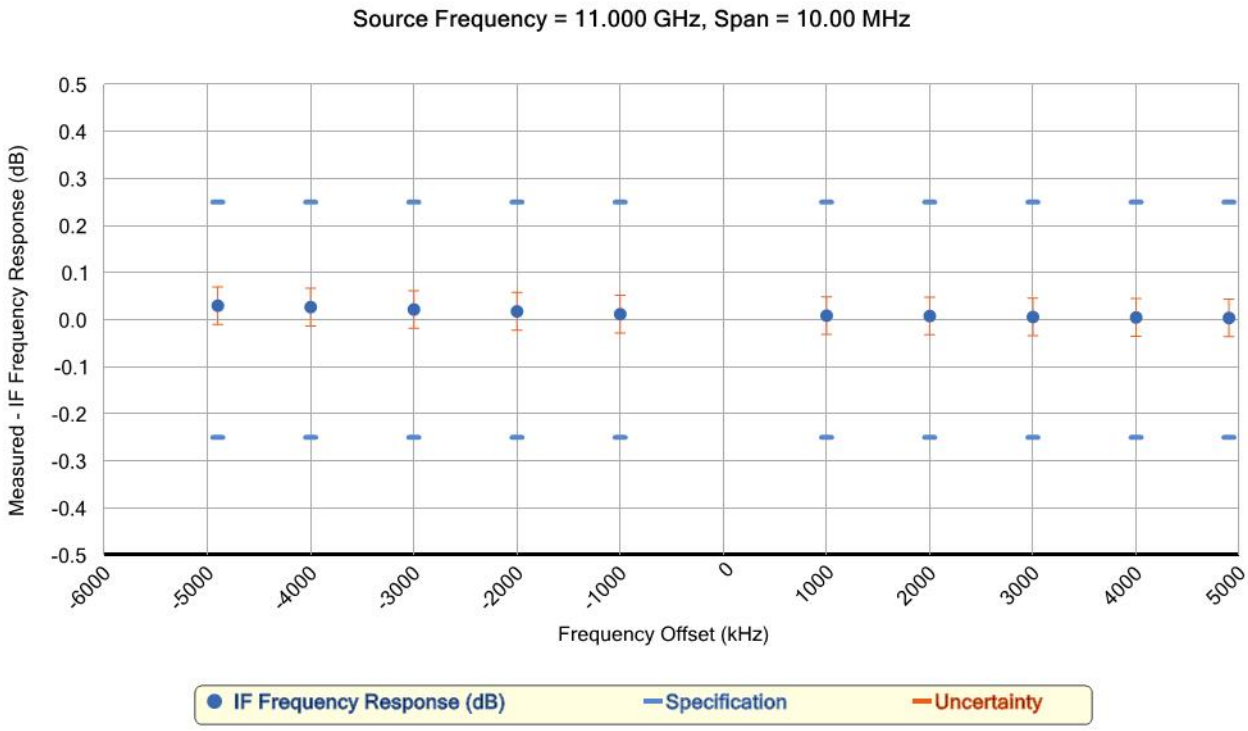
IF Frequency Response (cont.)



Source Frequency = 6.000 GHz, Span = 40.00 MHz (Option B40)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−19000.00 kHz	−0.40 dB	0.045 dB	0.40 dB	0.040 dB	
−16000.00 kHz	−0.40 dB	0.026 dB	0.40 dB	0.040 dB	
−12000.00 kHz	−0.40 dB	0.011 dB	0.40 dB	0.040 dB	
−8000.00 kHz	−0.40 dB	0.010 dB	0.40 dB	0.040 dB	
−4000.00 kHz	−0.40 dB	0.012 dB	0.40 dB	0.040 dB	
4000.00 kHz	−0.40 dB	−0.008 dB	0.40 dB	0.040 dB	
8000.00 kHz	−0.40 dB	−0.024 dB	0.40 dB	0.040 dB	
12000.00 kHz	−0.40 dB	−0.038 dB	0.40 dB	0.040 dB	
16000.00 kHz	−0.40 dB	−0.035 dB	0.40 dB	0.040 dB	
19000.00 kHz	−0.40 dB	−0.038 dB	0.40 dB	0.040 dB	

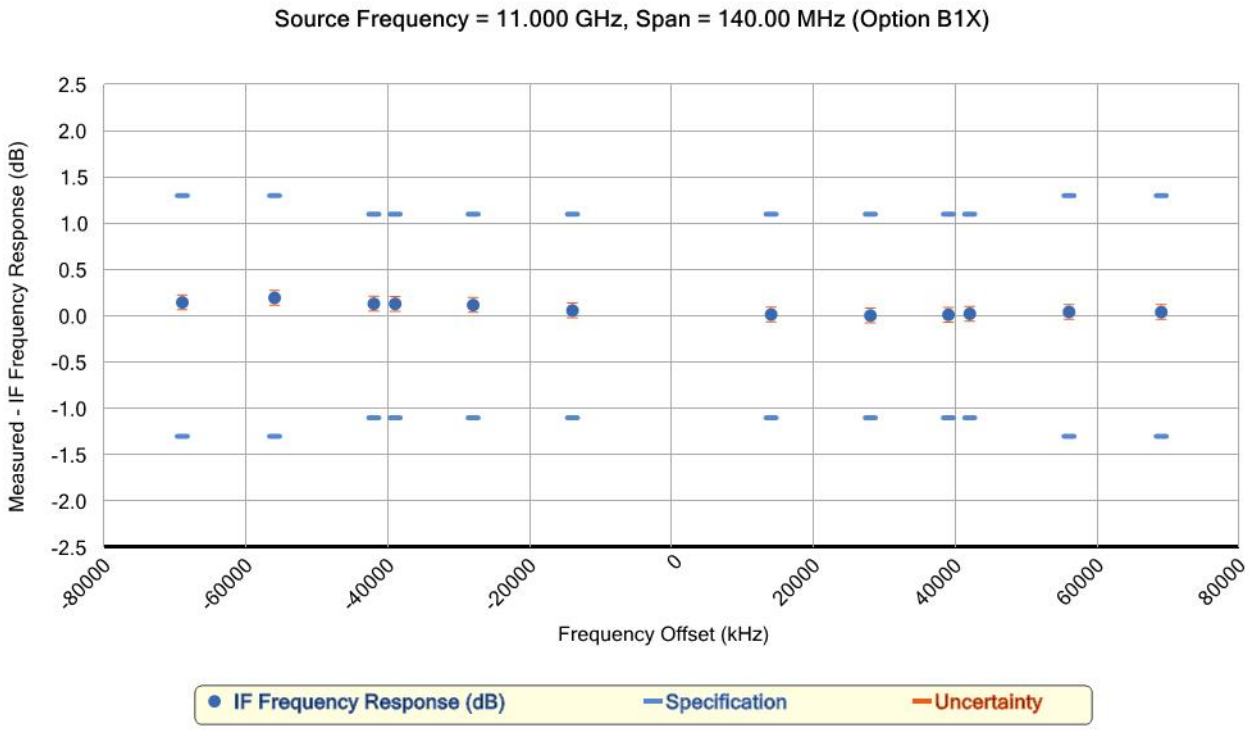
IF Frequency Response (cont.)



Source Frequency = 11.000 GHz, Span = 10.00 MHz

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−4900.00 kHz	−0.25 dB	0.030 dB	0.25 dB	0.040 dB	
−4000.00 kHz	−0.25 dB	0.027 dB	0.25 dB	0.040 dB	
−3000.00 kHz	−0.25 dB	0.022 dB	0.25 dB	0.040 dB	
−2000.00 kHz	−0.25 dB	0.018 dB	0.25 dB	0.040 dB	
−1000.00 kHz	−0.25 dB	0.012 dB	0.25 dB	0.040 dB	
1000.00 kHz	−0.25 dB	0.009 dB	0.25 dB	0.040 dB	
2000.00 kHz	−0.25 dB	0.008 dB	0.25 dB	0.040 dB	
3000.00 kHz	−0.25 dB	0.006 dB	0.25 dB	0.040 dB	
4000.00 kHz	−0.25 dB	0.005 dB	0.25 dB	0.040 dB	
4900.00 kHz	−0.25 dB	0.004 dB	0.25 dB	0.040 dB	

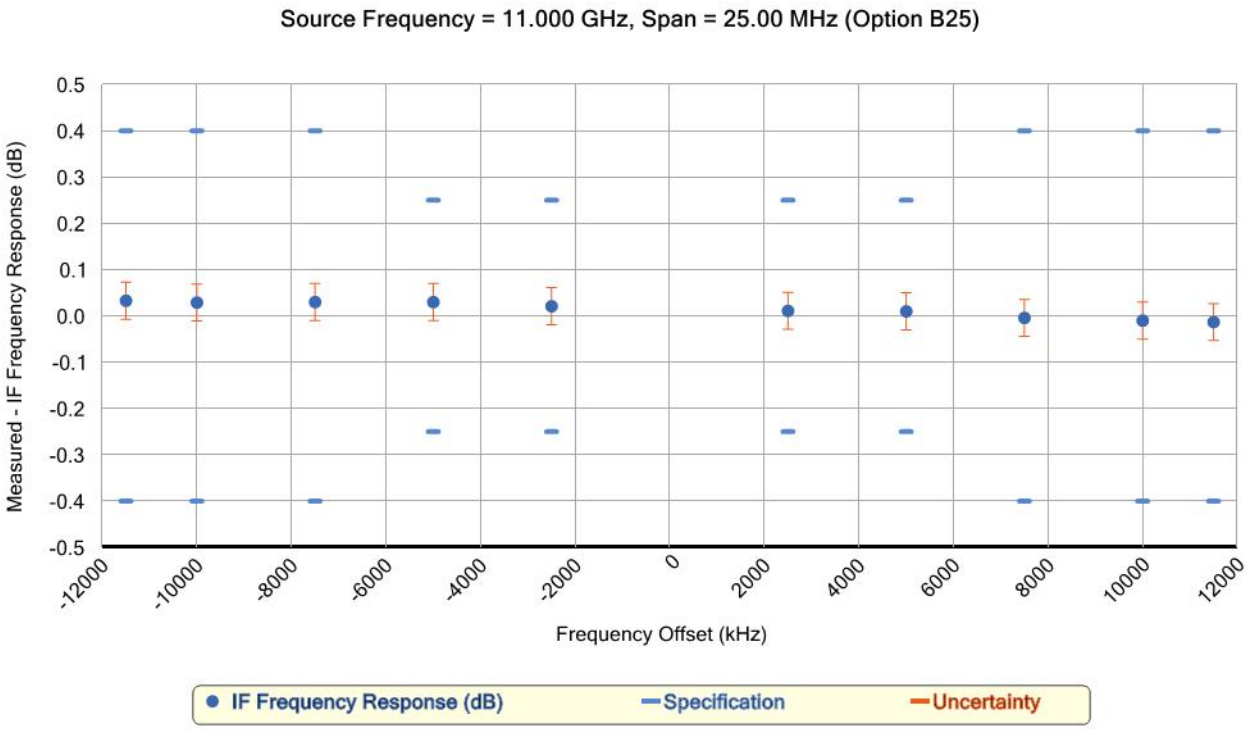
IF Frequency Response (cont.)



Source Frequency = 11.000 GHz, Span = 140.00 MHz (Option B1X)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−69000.00 kHz	−1.30 dB	0.147 dB	1.30 dB	0.080 dB	
−56000.00 kHz	−1.30 dB	0.196 dB	1.30 dB	0.080 dB	
−42000.00 kHz	−1.10 dB	0.132 dB	1.10 dB	0.080 dB	
−39000.00 kHz	−1.10 dB	0.131 dB	1.10 dB	0.080 dB	
−28000.00 kHz	−1.10 dB	0.118 dB	1.10 dB	0.080 dB	
−14000.00 kHz	−1.10 dB	0.059 dB	1.10 dB	0.080 dB	
14000.00 kHz	−1.10 dB	0.016 dB	1.10 dB	0.080 dB	
28000.00 kHz	−1.10 dB	0.005 dB	1.10 dB	0.080 dB	
39000.00 kHz	−1.10 dB	0.013 dB	1.10 dB	0.080 dB	
42000.00 kHz	−1.10 dB	0.024 dB	1.10 dB	0.080 dB	
56000.00 kHz	−1.30 dB	0.044 dB	1.30 dB	0.080 dB	
69000.00 kHz	−1.30 dB	0.042 dB	1.30 dB	0.080 dB	

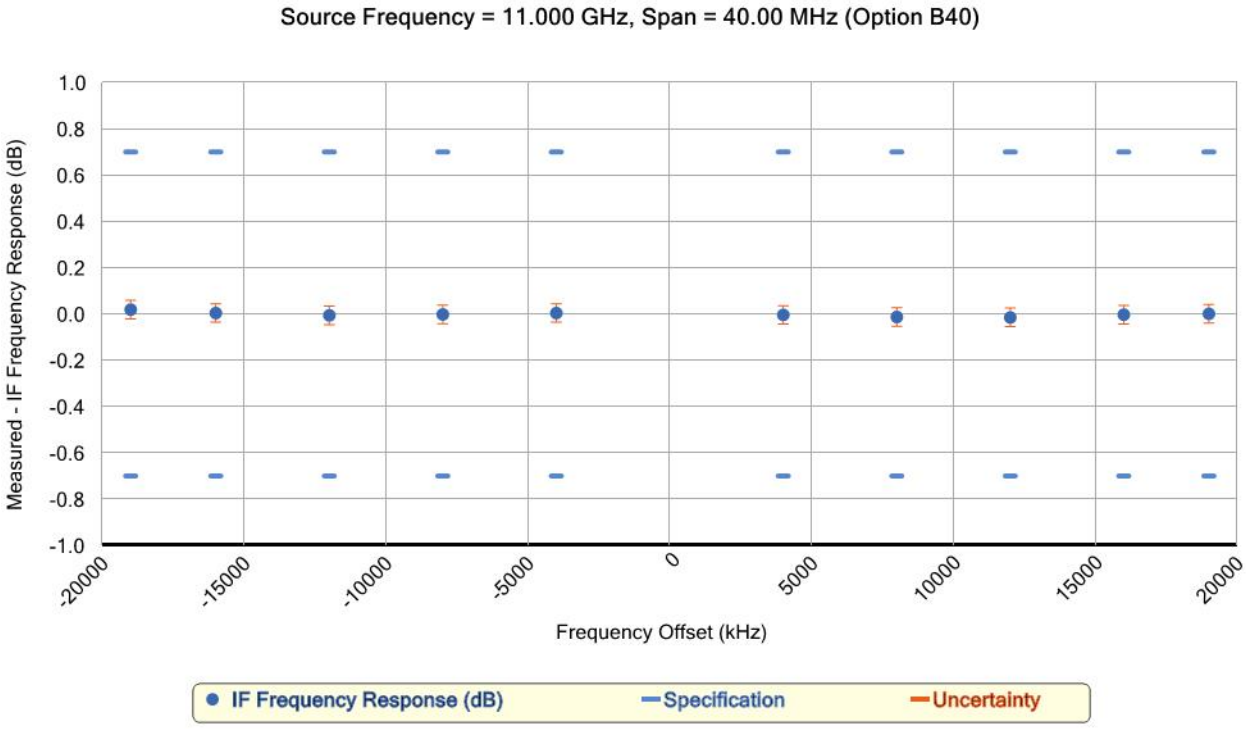
IF Frequency Response (cont.)



Source Frequency = 11.000 GHz, Span = 25.00 MHz (Option B25)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−11500.00 kHz	−0.40 dB	0.033 dB	0.40 dB	0.040 dB	
−10000.00 kHz	−0.40 dB	0.029 dB	0.40 dB	0.040 dB	
−7500.00 kHz	−0.40 dB	0.030 dB	0.40 dB	0.040 dB	
−5000.00 kHz	−0.25 dB	0.030 dB	0.25 dB	0.040 dB	
−2500.00 kHz	−0.25 dB	0.021 dB	0.25 dB	0.040 dB	
2500.00 kHz	−0.25 dB	0.011 dB	0.25 dB	0.040 dB	
5000.00 kHz	−0.25 dB	0.010 dB	0.25 dB	0.040 dB	
7500.00 kHz	−0.40 dB	−0.004 dB	0.40 dB	0.040 dB	
10000.00 kHz	−0.40 dB	−0.010 dB	0.40 dB	0.040 dB	
11500.00 kHz	−0.40 dB	−0.013 dB	0.40 dB	0.040 dB	

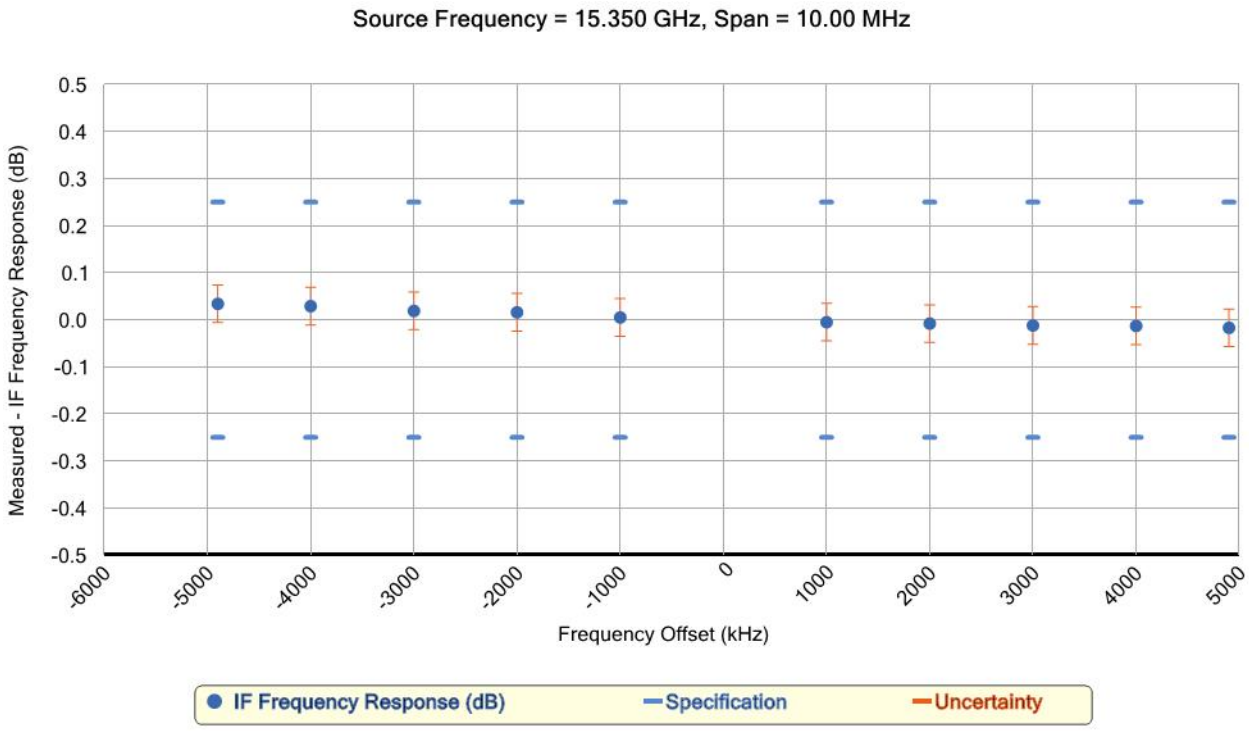
IF Frequency Response (cont.)



Source Frequency = 11.000 GHz, Span = 40.00 MHz (Option B40)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−19000.00 kHz	−0.70 dB	0.019 dB	0.70 dB	0.040 dB	
−16000.00 kHz	−0.70 dB	0.004 dB	0.70 dB	0.040 dB	
−12000.00 kHz	−0.70 dB	−0.006 dB	0.70 dB	0.040 dB	
−8000.00 kHz	−0.70 dB	−0.002 dB	0.70 dB	0.040 dB	
−4000.00 kHz	−0.70 dB	0.004 dB	0.70 dB	0.040 dB	
4000.00 kHz	−0.70 dB	−0.004 dB	0.70 dB	0.040 dB	
8000.00 kHz	−0.70 dB	−0.013 dB	0.70 dB	0.040 dB	
12000.00 kHz	−0.70 dB	−0.015 dB	0.70 dB	0.040 dB	
16000.00 kHz	−0.70 dB	−0.003 dB	0.70 dB	0.040 dB	
19000.00 kHz	−0.70 dB	0.001 dB	0.70 dB	0.040 dB	

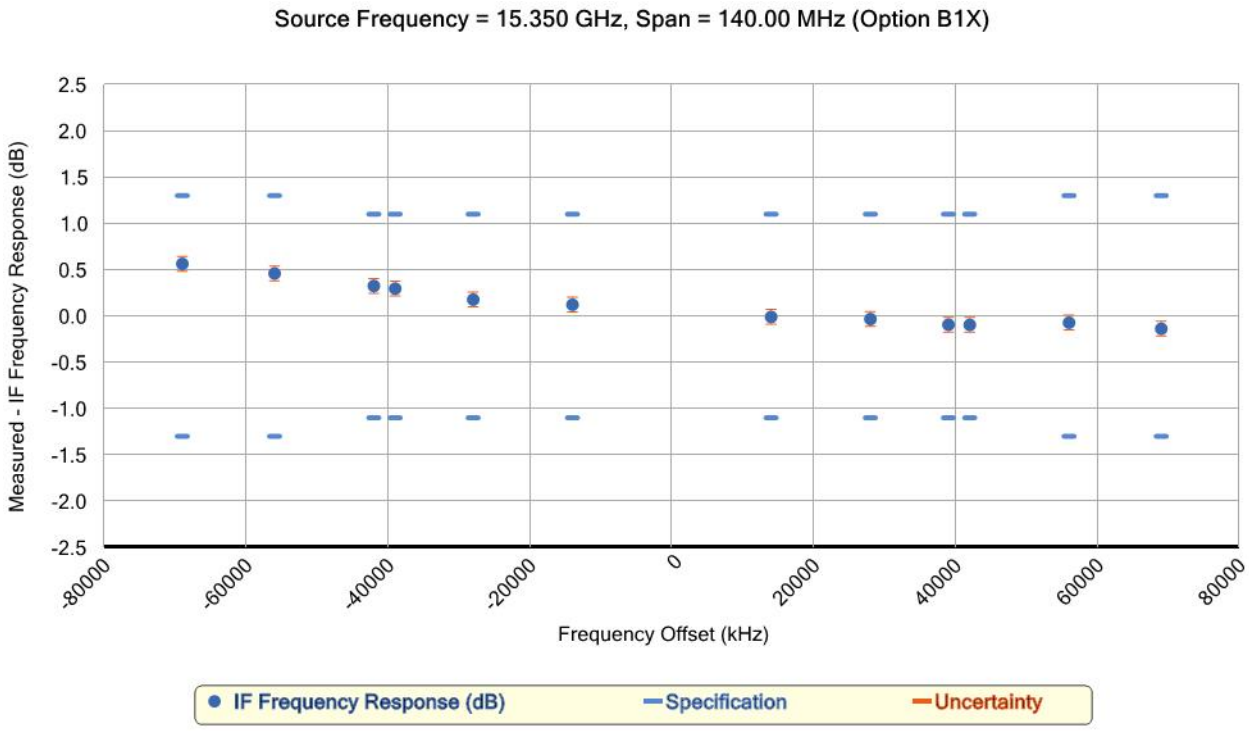
IF Frequency Response (cont.)



Source Frequency = 15.350 GHz, Span = 10.00 MHz

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−4900.00 kHz	−0.25 dB	0.034 dB	0.25 dB	0.040 dB	
−4000.00 kHz	−0.25 dB	0.029 dB	0.25 dB	0.040 dB	
−3000.00 kHz	−0.25 dB	0.019 dB	0.25 dB	0.040 dB	
−2000.00 kHz	−0.25 dB	0.016 dB	0.25 dB	0.040 dB	
−1000.00 kHz	−0.25 dB	0.005 dB	0.25 dB	0.040 dB	
1000.00 kHz	−0.25 dB	−0.005 dB	0.25 dB	0.040 dB	
2000.00 kHz	−0.25 dB	−0.008 dB	0.25 dB	0.040 dB	
3000.00 kHz	−0.25 dB	−0.012 dB	0.25 dB	0.040 dB	
4000.00 kHz	−0.25 dB	−0.013 dB	0.25 dB	0.040 dB	
4900.00 kHz	−0.25 dB	−0.017 dB	0.25 dB	0.040 dB	

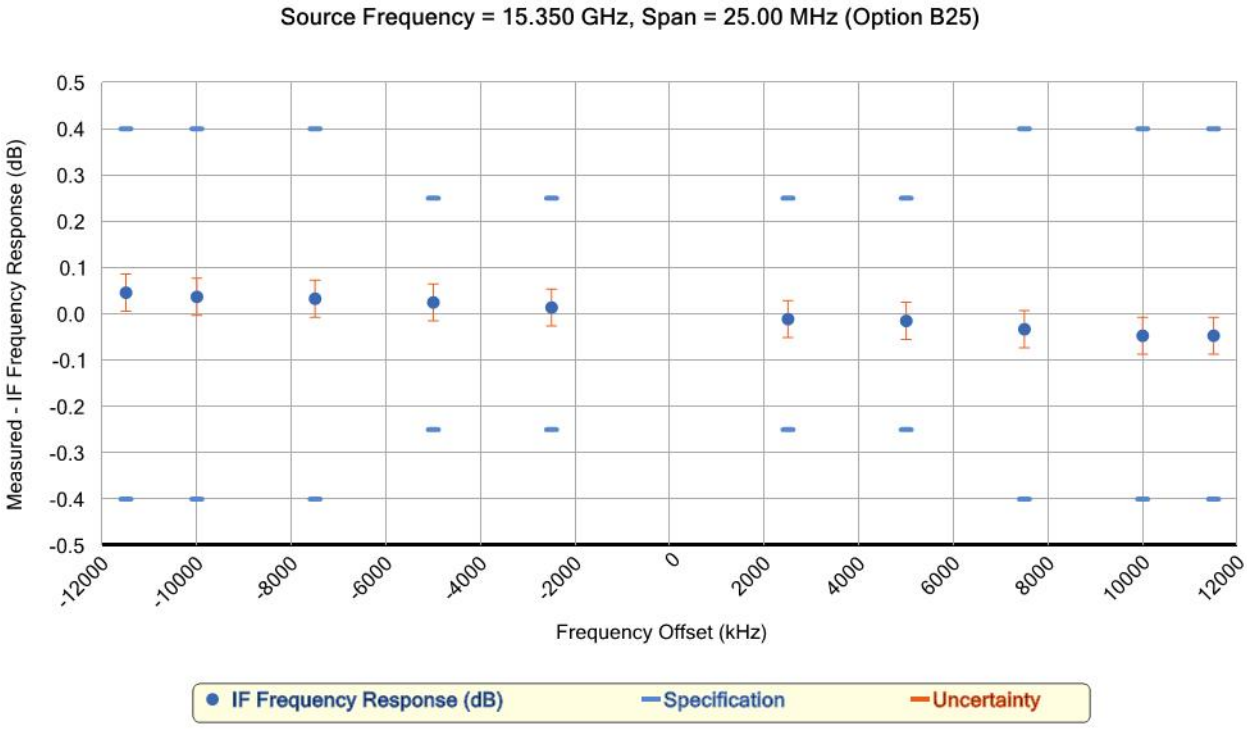
IF Frequency Response (cont.)



Source Frequency = 15.350 GHz, Span = 140.00 MHz (Option B1X)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−69000.00 kHz	−1.30 dB	0.563 dB	1.30 dB	0.080 dB	
−56000.00 kHz	−1.30 dB	0.459 dB	1.30 dB	0.080 dB	
−42000.00 kHz	−1.10 dB	0.325 dB	1.10 dB	0.080 dB	
−39000.00 kHz	−1.10 dB	0.296 dB	1.10 dB	0.080 dB	
−28000.00 kHz	−1.10 dB	0.177 dB	1.10 dB	0.080 dB	
−14000.00 kHz	−1.10 dB	0.122 dB	1.10 dB	0.080 dB	
14000.00 kHz	−1.10 dB	−0.010 dB	1.10 dB	0.080 dB	
28000.00 kHz	−1.10 dB	−0.033 dB	1.10 dB	0.080 dB	
39000.00 kHz	−1.10 dB	−0.094 dB	1.10 dB	0.080 dB	
42000.00 kHz	−1.10 dB	−0.096 dB	1.10 dB	0.080 dB	
56000.00 kHz	−1.30 dB	−0.072 dB	1.30 dB	0.080 dB	
69000.00 kHz	−1.30 dB	−0.138 dB	1.30 dB	0.080 dB	

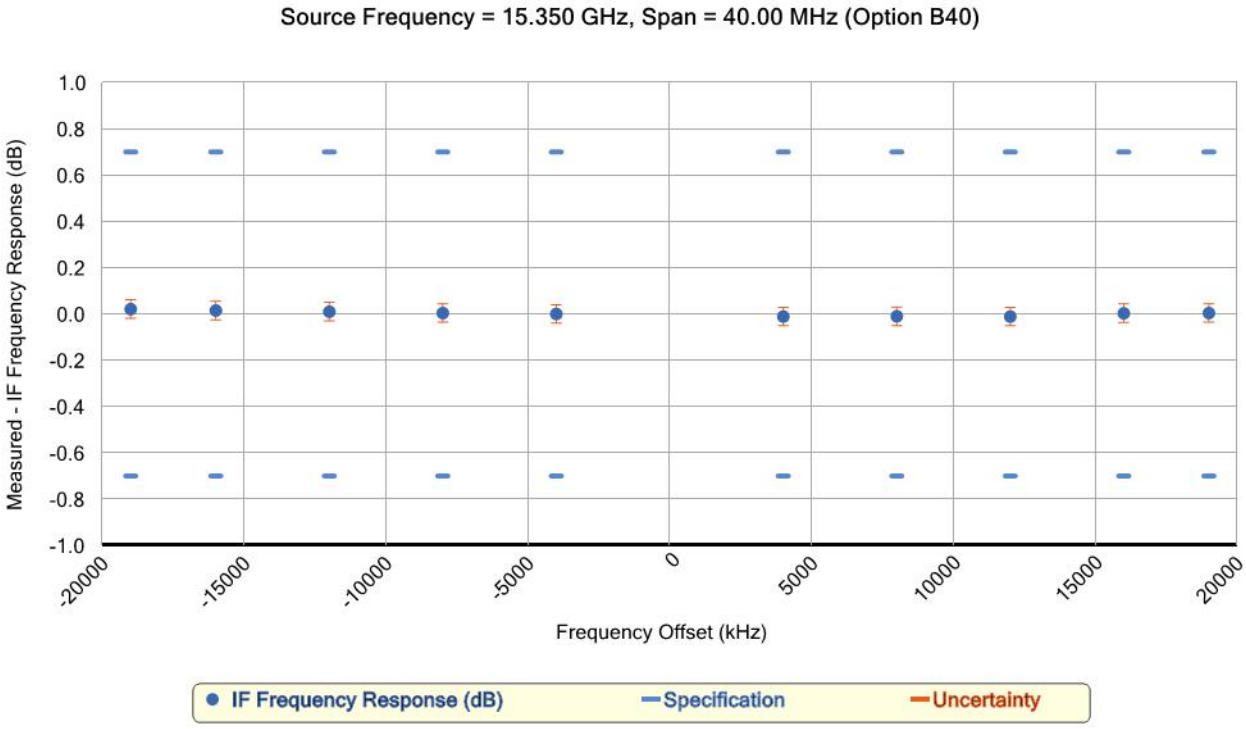
IF Frequency Response (cont.)



Source Frequency = 15.350 GHz, Span = 25.00 MHz (Option B25)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−11500.00 kHz	−0.40 dB	0.046 dB	0.40 dB	0.040 dB	
−10000.00 kHz	−0.40 dB	0.037 dB	0.40 dB	0.040 dB	
−7500.00 kHz	−0.40 dB	0.033 dB	0.40 dB	0.040 dB	
−5000.00 kHz	−0.25 dB	0.025 dB	0.25 dB	0.040 dB	
−2500.00 kHz	−0.25 dB	0.014 dB	0.25 dB	0.040 dB	
2500.00 kHz	−0.25 dB	−0.011 dB	0.25 dB	0.040 dB	
5000.00 kHz	−0.25 dB	−0.015 dB	0.25 dB	0.040 dB	
7500.00 kHz	−0.40 dB	−0.033 dB	0.40 dB	0.040 dB	
10000.00 kHz	−0.40 dB	−0.047 dB	0.40 dB	0.040 dB	
11500.00 kHz	−0.40 dB	−0.047 dB	0.40 dB	0.040 dB	

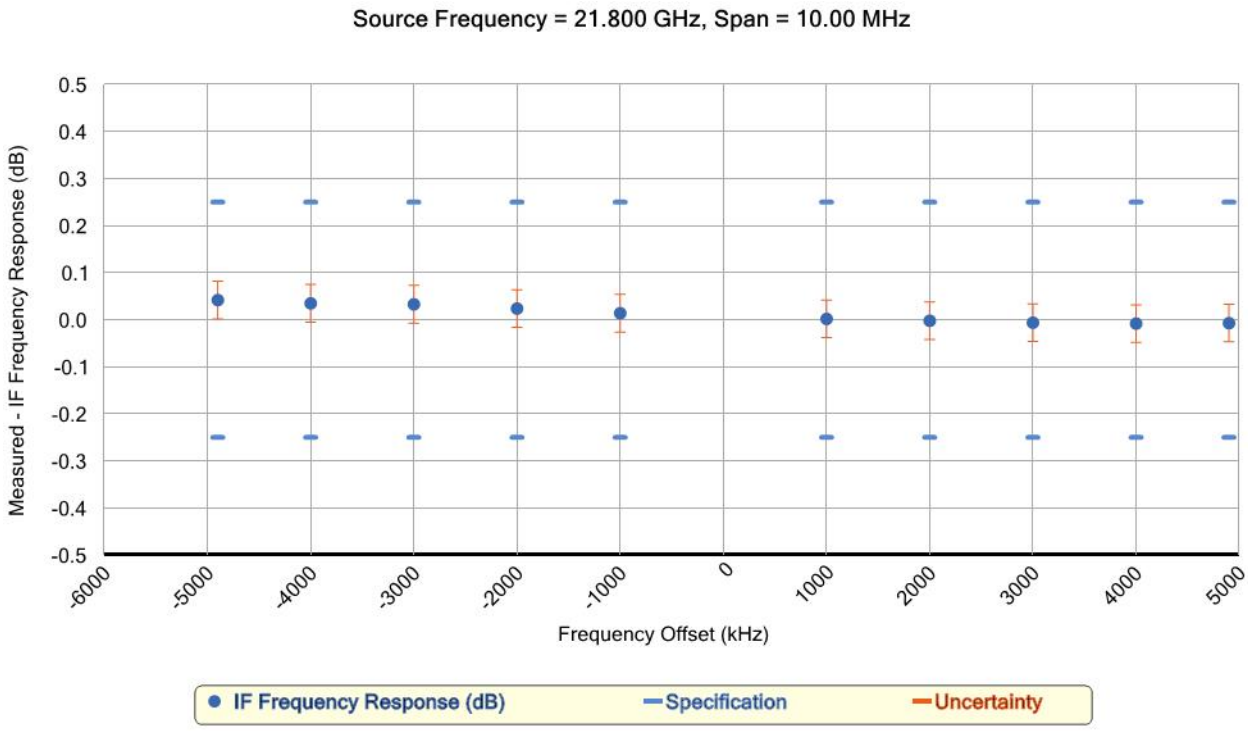
IF Frequency Response (cont.)



Source Frequency = 15.350 GHz, Span = 40.00 MHz (Option B40)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−19000.00 kHz	−0.70 dB	0.021 dB	0.70 dB	0.040 dB	
−16000.00 kHz	−0.70 dB	0.015 dB	0.70 dB	0.040 dB	
−12000.00 kHz	−0.70 dB	0.010 dB	0.70 dB	0.040 dB	
−8000.00 kHz	−0.70 dB	0.004 dB	0.70 dB	0.040 dB	
−4000.00 kHz	−0.70 dB	0.000 dB	0.70 dB	0.040 dB	
4000.00 kHz	−0.70 dB	−0.011 dB	0.70 dB	0.040 dB	
8000.00 kHz	−0.70 dB	−0.010 dB	0.70 dB	0.040 dB	
12000.00 kHz	−0.70 dB	−0.011 dB	0.70 dB	0.040 dB	
16000.00 kHz	−0.70 dB	0.003 dB	0.70 dB	0.040 dB	
19000.00 kHz	−0.70 dB	0.004 dB	0.70 dB	0.040 dB	

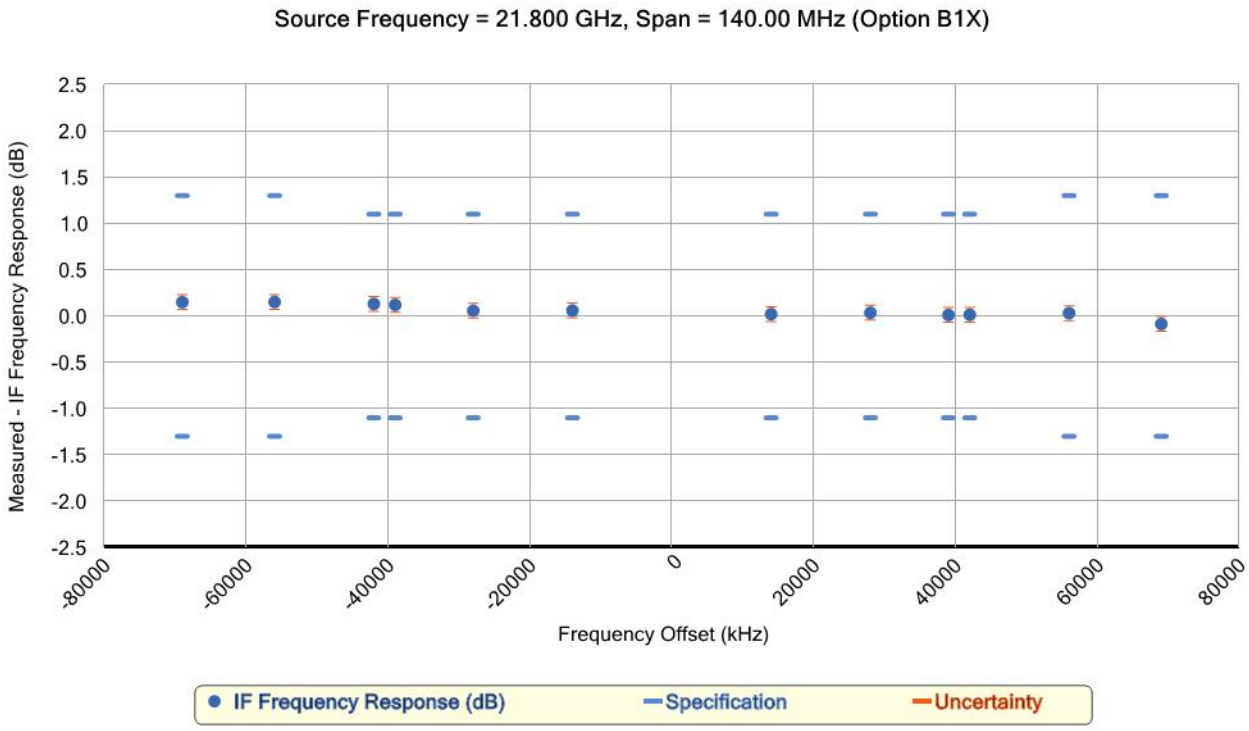
IF Frequency Response (cont.)



Source Frequency = 21.800 GHz, Span = 10.00 MHz

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−4900.00 kHz	−0.25 dB	0.042 dB	0.25 dB	0.040 dB	
−4000.00 kHz	−0.25 dB	0.035 dB	0.25 dB	0.040 dB	
−3000.00 kHz	−0.25 dB	0.033 dB	0.25 dB	0.040 dB	
−2000.00 kHz	−0.25 dB	0.024 dB	0.25 dB	0.040 dB	
−1000.00 kHz	−0.25 dB	0.014 dB	0.25 dB	0.040 dB	
1000.00 kHz	−0.25 dB	0.002 dB	0.25 dB	0.040 dB	
2000.00 kHz	−0.25 dB	−0.002 dB	0.25 dB	0.040 dB	
3000.00 kHz	−0.25 dB	−0.006 dB	0.25 dB	0.040 dB	
4000.00 kHz	−0.25 dB	−0.008 dB	0.25 dB	0.040 dB	
4900.00 kHz	−0.25 dB	−0.007 dB	0.25 dB	0.040 dB	

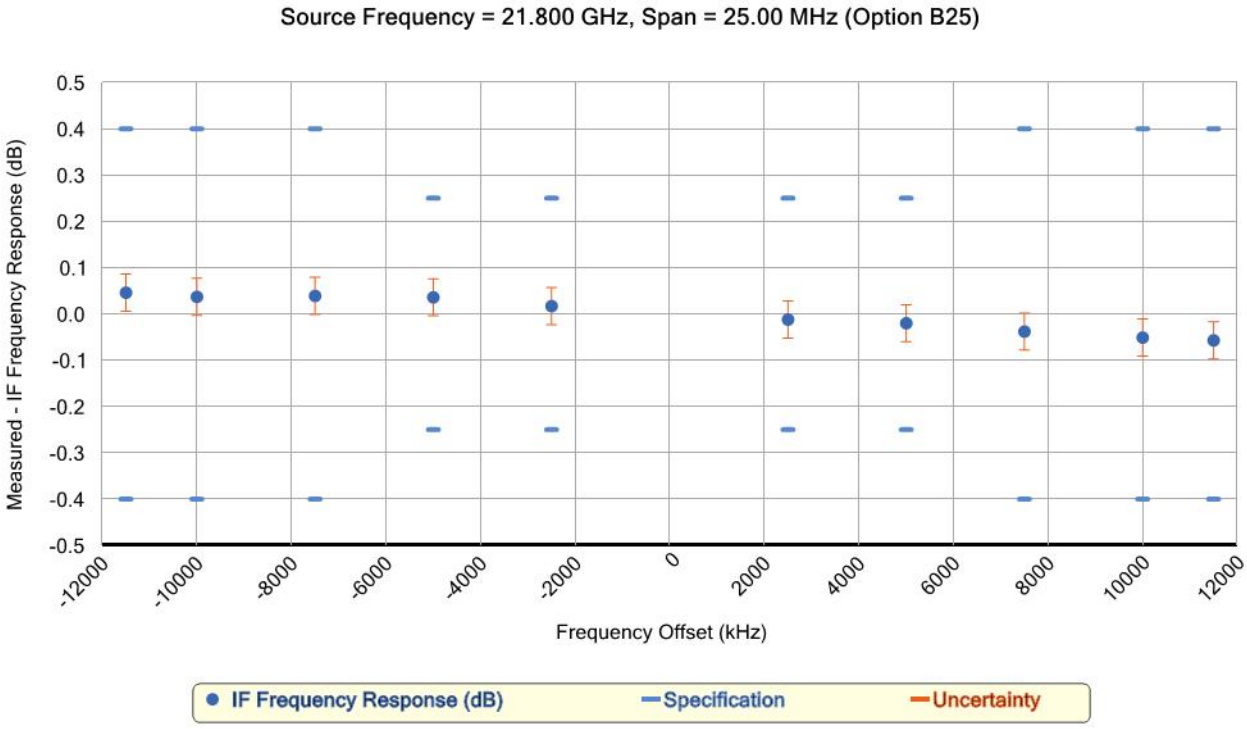
IF Frequency Response (cont.)



Source Frequency = 21.800 GHz, Span = 140.00 MHz (Option B1X)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−69000.00 kHz	−1.30 dB	0.150 dB	1.30 dB	0.080 dB	
−56000.00 kHz	−1.30 dB	0.152 dB	1.30 dB	0.080 dB	
−42000.00 kHz	−1.10 dB	0.131 dB	1.10 dB	0.080 dB	
−39000.00 kHz	−1.10 dB	0.120 dB	1.10 dB	0.080 dB	
−28000.00 kHz	−1.10 dB	0.057 dB	1.10 dB	0.080 dB	
−14000.00 kHz	−1.10 dB	0.059 dB	1.10 dB	0.080 dB	
14000.00 kHz	−1.10 dB	0.020 dB	1.10 dB	0.080 dB	
28000.00 kHz	−1.10 dB	0.035 dB	1.10 dB	0.080 dB	
39000.00 kHz	−1.10 dB	0.011 dB	1.10 dB	0.080 dB	
42000.00 kHz	−1.10 dB	0.013 dB	1.10 dB	0.080 dB	
56000.00 kHz	−1.30 dB	0.031 dB	1.30 dB	0.080 dB	
69000.00 kHz	−1.30 dB	−0.086 dB	1.30 dB	0.080 dB	

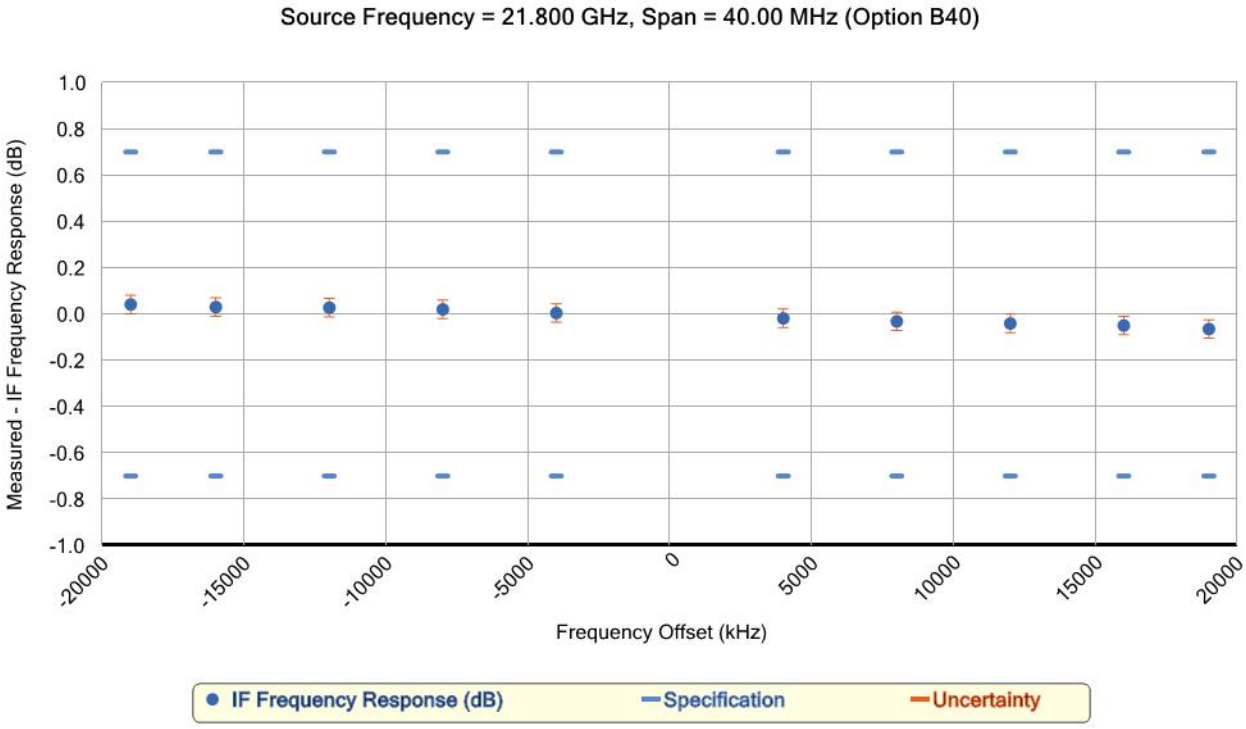
IF Frequency Response (cont.)



Source Frequency = 21.800 GHz, Span = 25.00 MHz (Option B25)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−11500.00 kHz	−0.40 dB	0.046 dB	0.40 dB	0.040 dB	
−10000.00 kHz	−0.40 dB	0.037 dB	0.40 dB	0.040 dB	
−7500.00 kHz	−0.40 dB	0.039 dB	0.40 dB	0.040 dB	
−5000.00 kHz	−0.25 dB	0.036 dB	0.25 dB	0.040 dB	
−2500.00 kHz	−0.25 dB	0.017 dB	0.25 dB	0.040 dB	
2500.00 kHz	−0.25 dB	−0.012 dB	0.25 dB	0.040 dB	
5000.00 kHz	−0.25 dB	−0.020 dB	0.25 dB	0.040 dB	
7500.00 kHz	−0.40 dB	−0.038 dB	0.40 dB	0.040 dB	
10000.00 kHz	−0.40 dB	−0.051 dB	0.40 dB	0.040 dB	
11500.00 kHz	−0.40 dB	−0.057 dB	0.40 dB	0.040 dB	

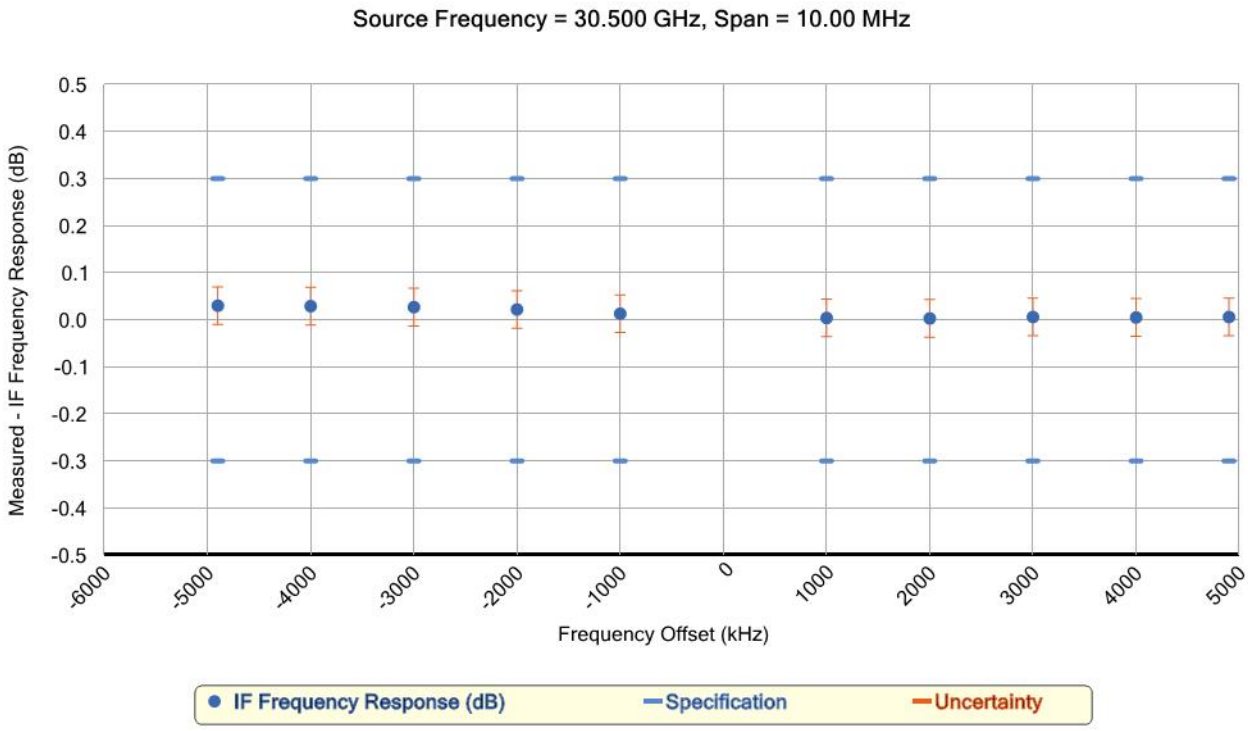
IF Frequency Response (cont.)



Source Frequency = 21.800 GHz, Span = 40.00 MHz (Option B40)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−19000.00 kHz	−0.70 dB	0.041 dB	0.70 dB	0.040 dB	
−16000.00 kHz	−0.70 dB	0.030 dB	0.70 dB	0.040 dB	
−12000.00 kHz	−0.70 dB	0.027 dB	0.70 dB	0.040 dB	
−8000.00 kHz	−0.70 dB	0.020 dB	0.70 dB	0.040 dB	
−4000.00 kHz	−0.70 dB	0.004 dB	0.70 dB	0.040 dB	
4000.00 kHz	−0.70 dB	−0.019 dB	0.70 dB	0.040 dB	
8000.00 kHz	−0.70 dB	−0.032 dB	0.70 dB	0.040 dB	
12000.00 kHz	−0.70 dB	−0.041 dB	0.70 dB	0.040 dB	
16000.00 kHz	−0.70 dB	−0.050 dB	0.70 dB	0.040 dB	
19000.00 kHz	−0.70 dB	−0.065 dB	0.70 dB	0.040 dB	

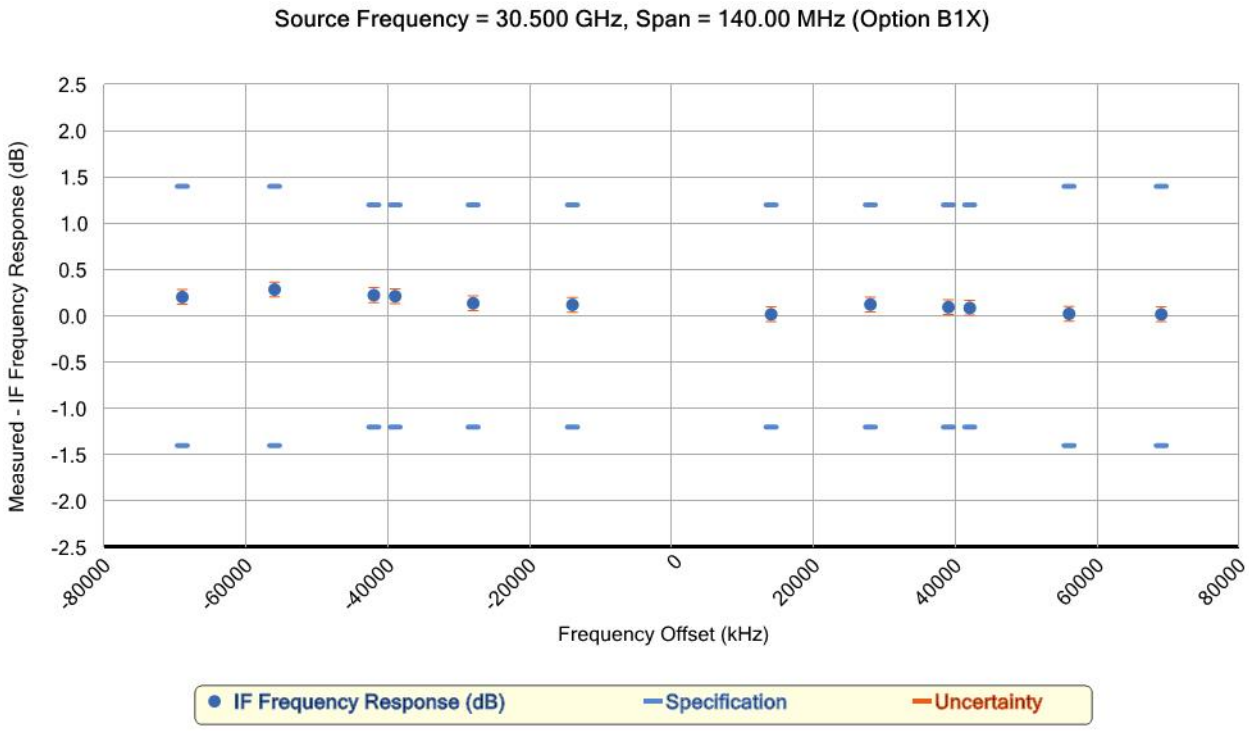
IF Frequency Response (cont.)



Source Frequency = 30.500 GHz, Span = 10.00 MHz

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−4900.00 kHz	−0.30 dB	0.030 dB	0.30 dB	0.040 dB	
−4000.00 kHz	−0.30 dB	0.029 dB	0.30 dB	0.040 dB	
−3000.00 kHz	−0.30 dB	0.027 dB	0.30 dB	0.040 dB	
−2000.00 kHz	−0.30 dB	0.022 dB	0.30 dB	0.040 dB	
−1000.00 kHz	−0.30 dB	0.013 dB	0.30 dB	0.040 dB	
1000.00 kHz	−0.30 dB	0.004 dB	0.30 dB	0.040 dB	
2000.00 kHz	−0.30 dB	0.003 dB	0.30 dB	0.040 dB	
3000.00 kHz	−0.30 dB	0.006 dB	0.30 dB	0.040 dB	
4000.00 kHz	−0.30 dB	0.005 dB	0.30 dB	0.040 dB	
4900.00 kHz	−0.30 dB	0.006 dB	0.30 dB	0.040 dB	

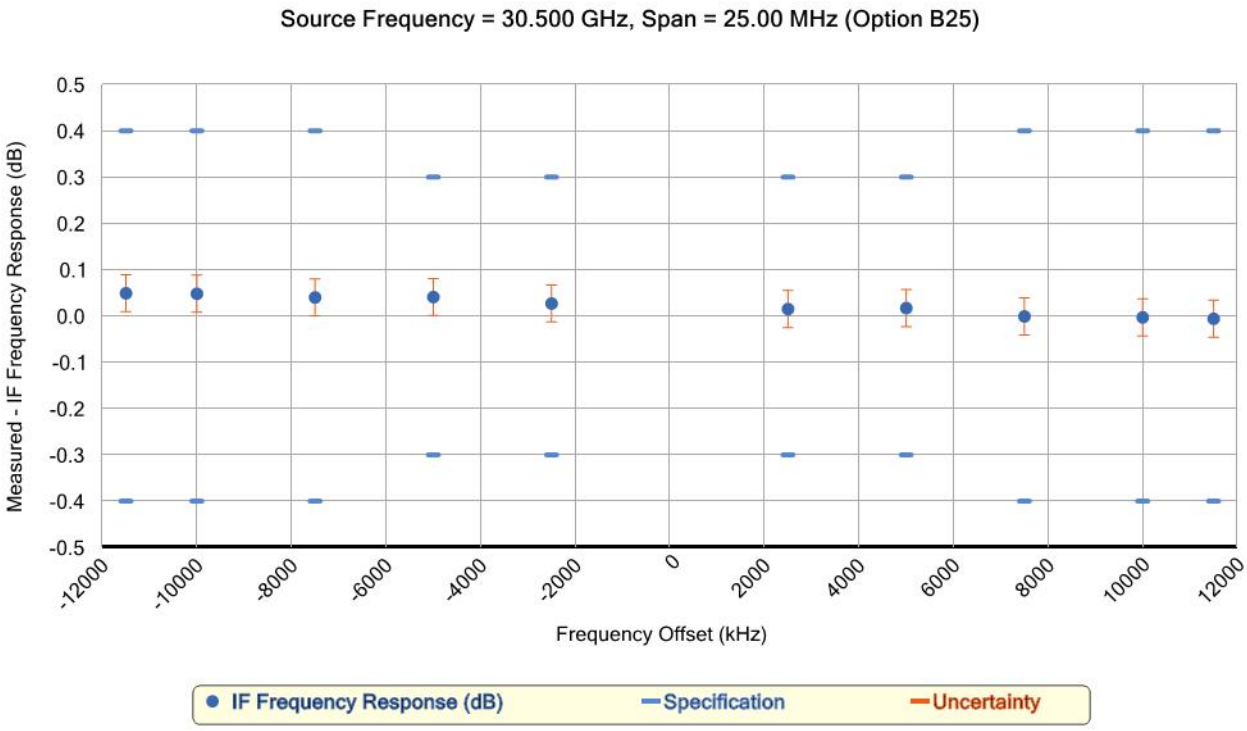
IF Frequency Response (cont.)



Source Frequency = 30.500 GHz, Span = 140.00 MHz (Option B1X)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−69000.00 kHz	−1.40 dB	0.205 dB	1.40 dB	0.080 dB	
−56000.00 kHz	−1.40 dB	0.286 dB	1.40 dB	0.080 dB	
−42000.00 kHz	−1.20 dB	0.225 dB	1.20 dB	0.080 dB	
−39000.00 kHz	−1.20 dB	0.214 dB	1.20 dB	0.080 dB	
−28000.00 kHz	−1.20 dB	0.137 dB	1.20 dB	0.080 dB	
−14000.00 kHz	−1.20 dB	0.121 dB	1.20 dB	0.080 dB	
14000.00 kHz	−1.20 dB	0.018 dB	1.20 dB	0.080 dB	
28000.00 kHz	−1.20 dB	0.124 dB	1.20 dB	0.080 dB	
39000.00 kHz	−1.20 dB	0.096 dB	1.20 dB	0.080 dB	
42000.00 kHz	−1.20 dB	0.087 dB	1.20 dB	0.080 dB	
56000.00 kHz	−1.40 dB	0.024 dB	1.40 dB	0.080 dB	
69000.00 kHz	−1.40 dB	0.018 dB	1.40 dB	0.080 dB	

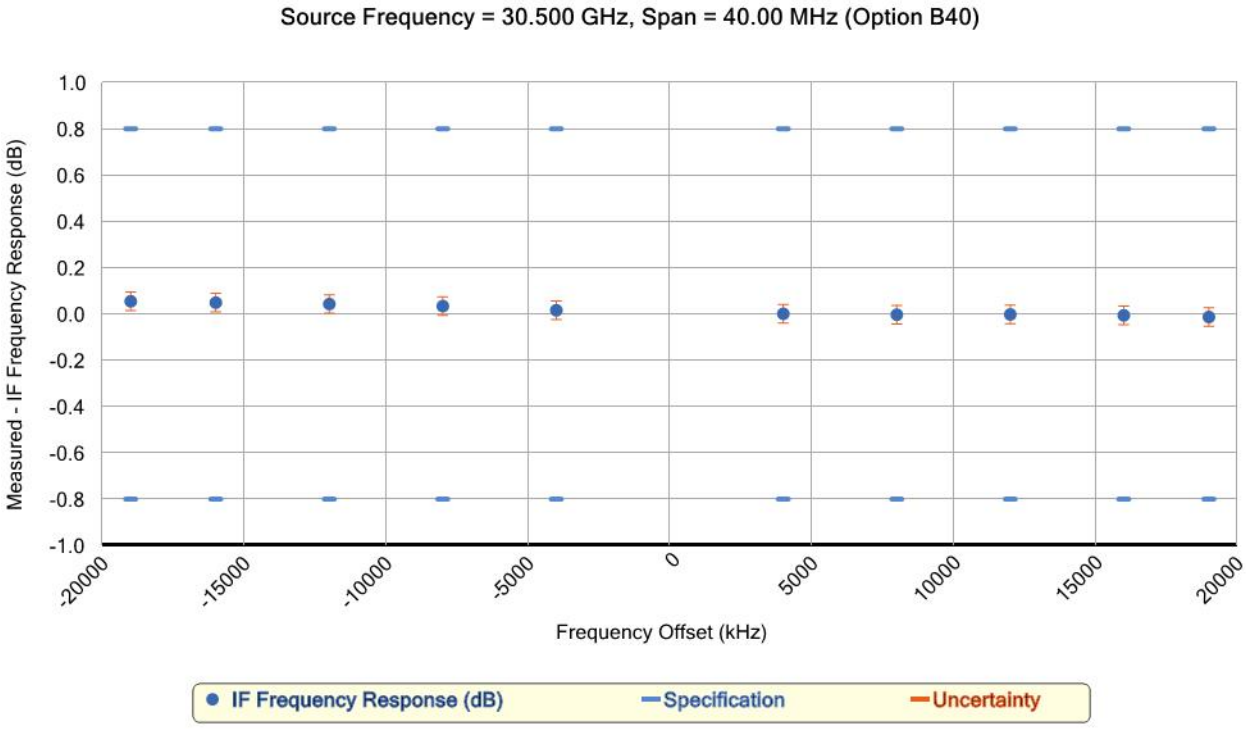
IF Frequency Response (cont.)



Source Frequency = 30.500 GHz, Span = 25.00 MHz (Option B25)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−11500.00 kHz	−0.40 dB	0.049 dB	0.40 dB	0.040 dB	
−10000.00 kHz	−0.40 dB	0.048 dB	0.40 dB	0.040 dB	
−7500.00 kHz	−0.40 dB	0.040 dB	0.40 dB	0.040 dB	
−5000.00 kHz	−0.30 dB	0.041 dB	0.30 dB	0.040 dB	
−2500.00 kHz	−0.30 dB	0.027 dB	0.30 dB	0.040 dB	
2500.00 kHz	−0.30 dB	0.015 dB	0.30 dB	0.040 dB	
5000.00 kHz	−0.30 dB	0.017 dB	0.30 dB	0.040 dB	
7500.00 kHz	−0.40 dB	−0.001 dB	0.40 dB	0.040 dB	
10000.00 kHz	−0.40 dB	−0.003 dB	0.40 dB	0.040 dB	
11500.00 kHz	−0.40 dB	−0.006 dB	0.40 dB	0.040 dB	

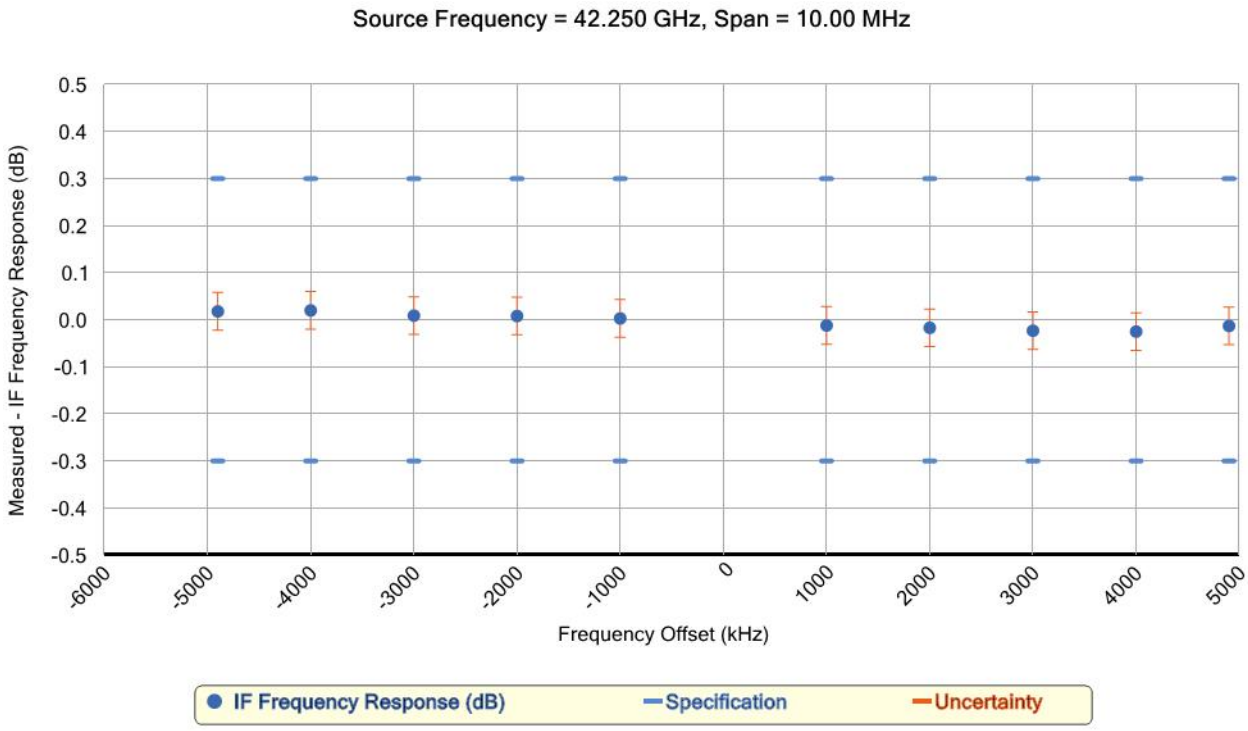
IF Frequency Response (cont.)



Source Frequency = 30.500 GHz, Span = 40.00 MHz (Option B40)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−19000.00 kHz	−0.80 dB	0.055 dB	0.80 dB	0.040 dB	
−16000.00 kHz	−0.80 dB	0.049 dB	0.80 dB	0.040 dB	
−12000.00 kHz	−0.80 dB	0.043 dB	0.80 dB	0.040 dB	
−8000.00 kHz	−0.80 dB	0.034 dB	0.80 dB	0.040 dB	
−4000.00 kHz	−0.80 dB	0.016 dB	0.80 dB	0.040 dB	
4000.00 kHz	−0.80 dB	0.001 dB	0.80 dB	0.040 dB	
8000.00 kHz	−0.80 dB	−0.003 dB	0.80 dB	0.040 dB	
12000.00 kHz	−0.80 dB	−0.002 dB	0.80 dB	0.040 dB	
16000.00 kHz	−0.80 dB	−0.006 dB	0.80 dB	0.040 dB	
19000.00 kHz	−0.80 dB	−0.013 dB	0.80 dB	0.040 dB	

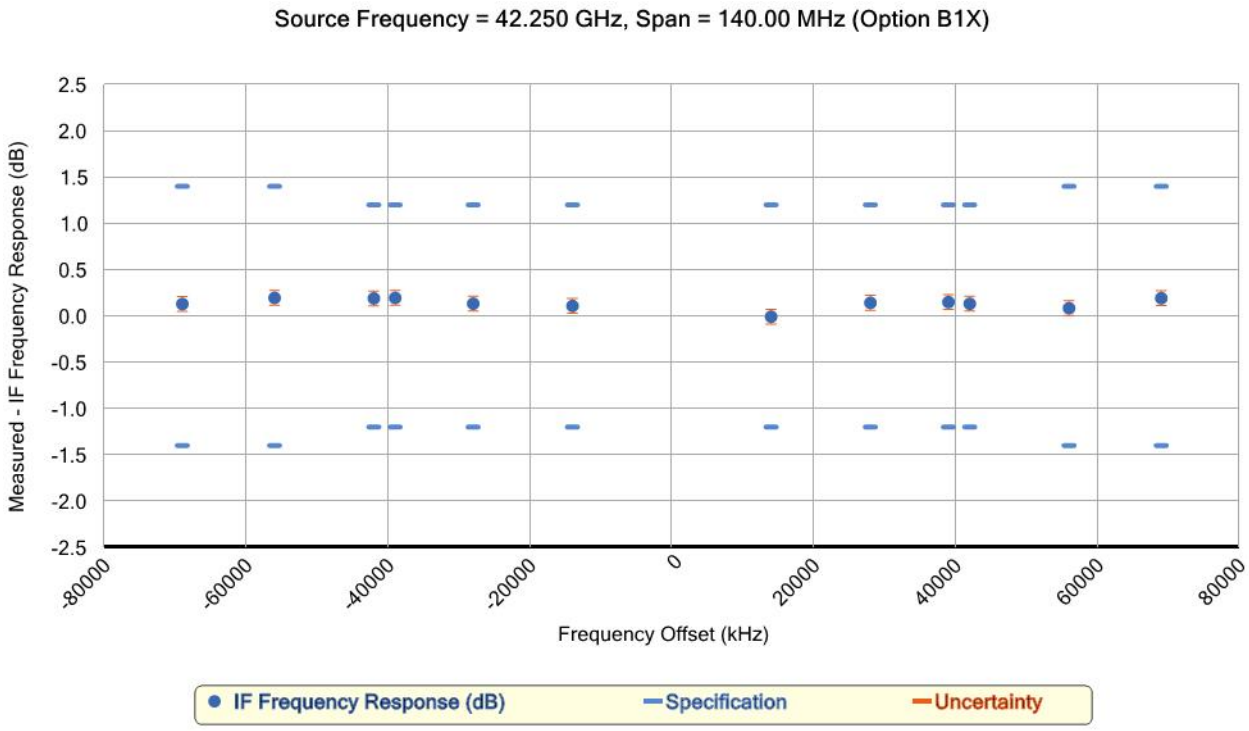
IF Frequency Response (cont.)



Source Frequency = 42.250 GHz, Span = 10.00 MHz

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−4900.00 kHz	−0.30 dB	0.018 dB	0.30 dB	0.040 dB	
−4000.00 kHz	−0.30 dB	0.020 dB	0.30 dB	0.040 dB	
−3000.00 kHz	−0.30 dB	0.009 dB	0.30 dB	0.040 dB	
−2000.00 kHz	−0.30 dB	0.008 dB	0.30 dB	0.040 dB	
−1000.00 kHz	−0.30 dB	0.003 dB	0.30 dB	0.040 dB	
1000.00 kHz	−0.30 dB	−0.012 dB	0.30 dB	0.040 dB	
2000.00 kHz	−0.30 dB	−0.017 dB	0.30 dB	0.040 dB	
3000.00 kHz	−0.30 dB	−0.023 dB	0.30 dB	0.040 dB	
4000.00 kHz	−0.30 dB	−0.025 dB	0.30 dB	0.040 dB	
4900.00 kHz	−0.30 dB	−0.013 dB	0.30 dB	0.040 dB	

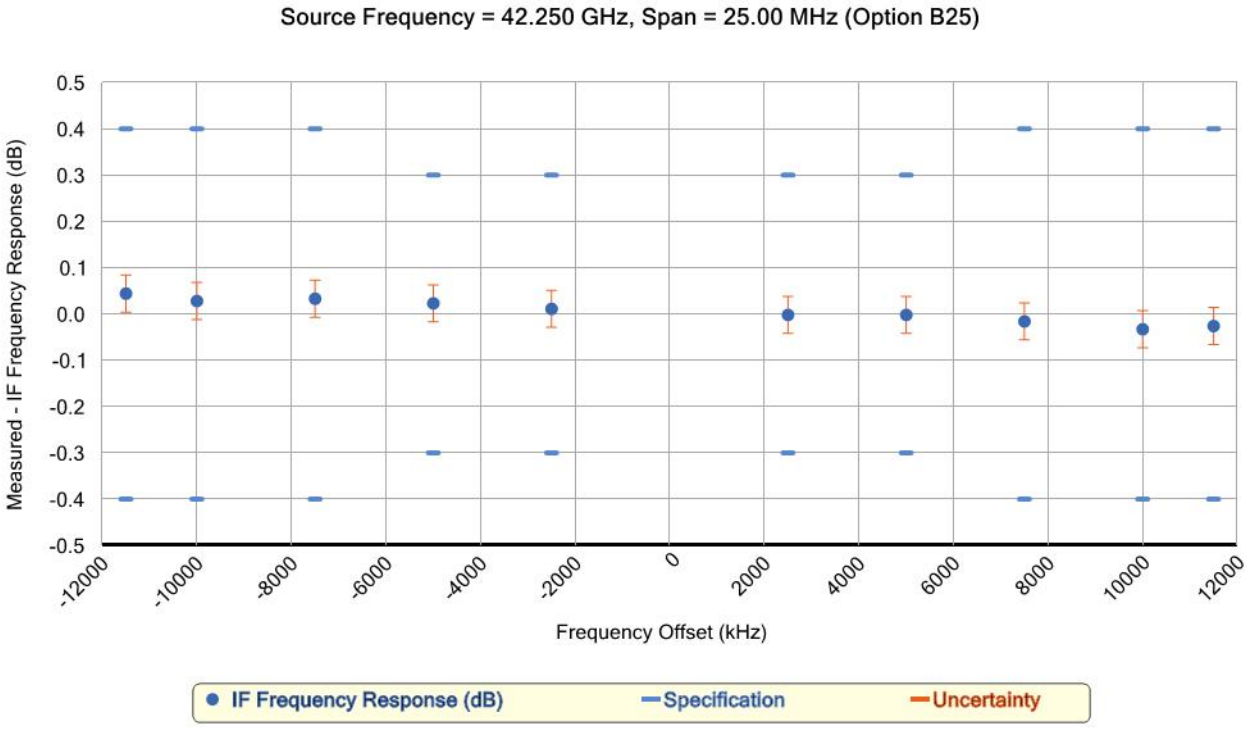
IF Frequency Response (cont.)



Source Frequency = 42.250 GHz, Span = 140.00 MHz (Option B1X)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−69000.00 kHz	−1.40 dB	0.129 dB	1.40 dB	0.080 dB	
−56000.00 kHz	−1.40 dB	0.195 dB	1.40 dB	0.080 dB	
−42000.00 kHz	−1.20 dB	0.190 dB	1.20 dB	0.080 dB	
−39000.00 kHz	−1.20 dB	0.195 dB	1.20 dB	0.080 dB	
−28000.00 kHz	−1.20 dB	0.133 dB	1.20 dB	0.080 dB	
−14000.00 kHz	−1.20 dB	0.109 dB	1.20 dB	0.080 dB	
14000.00 kHz	−1.20 dB	−0.007 dB	1.20 dB	0.080 dB	
28000.00 kHz	−1.20 dB	0.142 dB	1.20 dB	0.080 dB	
39000.00 kHz	−1.20 dB	0.150 dB	1.20 dB	0.080 dB	
42000.00 kHz	−1.20 dB	0.132 dB	1.20 dB	0.080 dB	
56000.00 kHz	−1.40 dB	0.084 dB	1.40 dB	0.080 dB	
69000.00 kHz	−1.40 dB	0.192 dB	1.40 dB	0.080 dB	

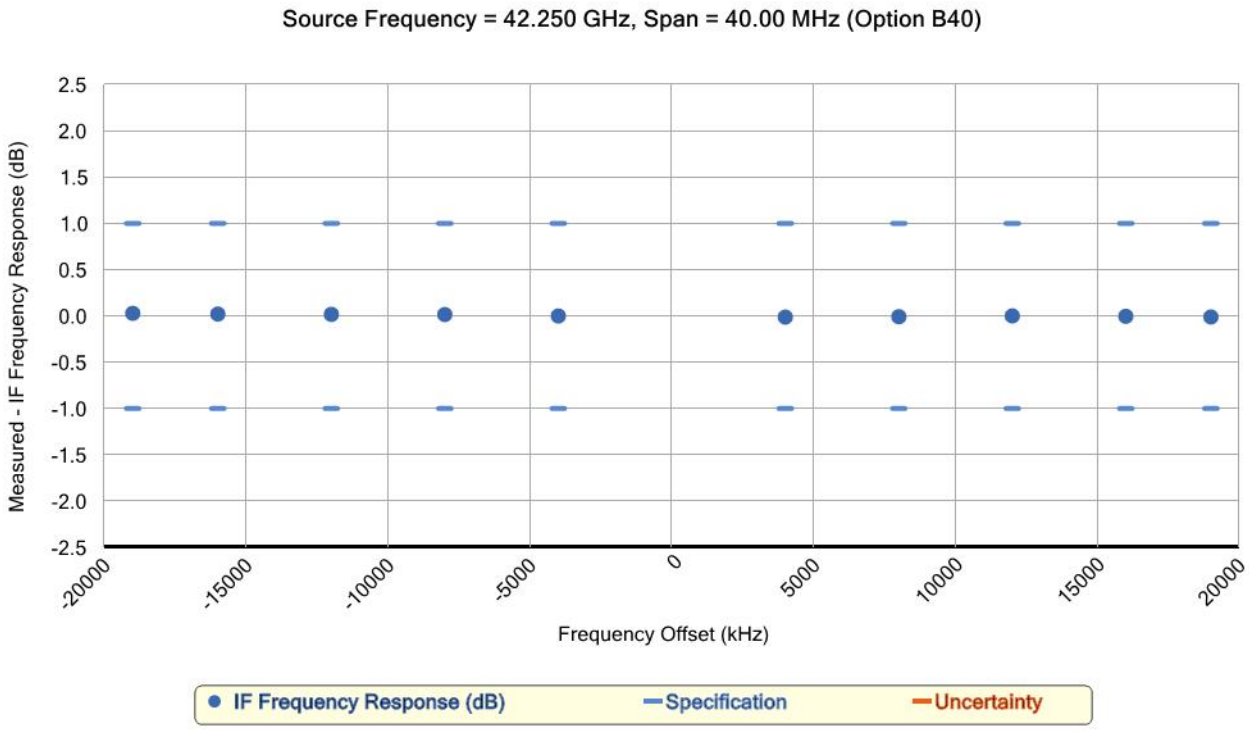
IF Frequency Response (cont.)



Source Frequency = 42.250 GHz, Span = 25.00 MHz (Option B25)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−11500.00 kHz	−0.40 dB	0.044 dB	0.40 dB	0.040 dB	
−10000.00 kHz	−0.40 dB	0.028 dB	0.40 dB	0.040 dB	
−7500.00 kHz	−0.40 dB	0.033 dB	0.40 dB	0.040 dB	
−5000.00 kHz	−0.30 dB	0.023 dB	0.30 dB	0.040 dB	
−2500.00 kHz	−0.30 dB	0.011 dB	0.30 dB	0.040 dB	
2500.00 kHz	−0.30 dB	−0.002 dB	0.30 dB	0.040 dB	
5000.00 kHz	−0.30 dB	−0.002 dB	0.30 dB	0.040 dB	
7500.00 kHz	−0.40 dB	−0.016 dB	0.40 dB	0.040 dB	
10000.00 kHz	−0.40 dB	−0.033 dB	0.40 dB	0.040 dB	
11500.00 kHz	−0.40 dB	−0.026 dB	0.40 dB	0.040 dB	

IF Frequency Response (cont.)



Source Frequency = 42.250 GHz, Span = 40.00 MHz (Option B40)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−19000.00 kHz	−1.00 dB	0.029 dB	1.00 dB	0.040 dB	
−16000.00 kHz	−1.00 dB	0.021 dB	1.00 dB	0.040 dB	
−12000.00 kHz	−1.00 dB	0.018 dB	1.00 dB	0.040 dB	
−8000.00 kHz	−1.00 dB	0.016 dB	1.00 dB	0.040 dB	
−4000.00 kHz	−1.00 dB	0.000 dB	1.00 dB	0.040 dB	
4000.00 kHz	−1.00 dB	−0.012 dB	1.00 dB	0.040 dB	
8000.00 kHz	−1.00 dB	−0.007 dB	1.00 dB	0.040 dB	
12000.00 kHz	−1.00 dB	0.001 dB	1.00 dB	0.040 dB	
16000.00 kHz	−1.00 dB	−0.003 dB	1.00 dB	0.040 dB	
19000.00 kHz	−1.00 dB	−0.010 dB	1.00 dB	0.040 dB	

Spurious Responses **Passed**

First Order Spurs

Spurious Frequency	Source Frequency	Measured	Maximum	Uncert.	Status
333.50 MHz	322.50 MHz	−120.35 dBc	−80.00 dBc	9.8 dB	
4477.50 MHz	322.50 MHz	−121.56 dBc	−80.00 dBc	15 dB	
9297.50 MHz	9287.50 MHz	−119.84 dBc	−73.98 dBc	13 dB	

Spurious Responses (cont.)

Higher Order Spurs

Spurious Frequency	Source Frequency	Measured	Maximum	Uncert.	Status
1000.00 MHz	1161.25 MHz	−97.70 dBc	−78.00 dBc	9.7 dB	
1000.00 MHz	3561.25 MHz	−100.20 dBc	−78.00 dBc	11 dB	
1100.00 MHz	2561.25 MHz	−98.09 dBc	−78.00 dBc	9.9 dB	
25000.00 MHz	161.25 MHz	−88.78 dBc	−65.96 dBc	13 dB	
25000.00 MHz	25161.25 MHz	−88.16 dBc	−65.96 dBc	12 dB	

Image/Multiple/Feedthru Spurs B1X IF Path

Spurious Frequency	Source Frequency	Measured	Maximum	Uncert.	Status
1100.00 MHz	1700.00 MHz	−102.07 dBc	−80.00 dBc	2.6 dB	
7500.00 MHz	8100.00 MHz	−114.59 dBc	−78.00 dBc	2.7 dB	
12500.00 MHz	13100.00 MHz	−118.56 dBc	−78.00 dBc	2.7 dB	
13500.00 MHz	14100.00 MHz	−112.14 dBc	−78.00 dBc	2.7 dB	
15500.00 MHz	16100.00 MHz	−107.64 dBc	−74.00 dBc	2.7 dB	
20000.00 MHz	20600.00 MHz	−109.66 dBc	−70.00 dBc	3.0 dB	
21000.00 MHz	21600.00 MHz	−106.95 dBc	−70.00 dBc	3.0 dB	
30000.00 MHz	30600.00 MHz	−100.24 dBc	−60.00 dBc	3.3 dB	
36000.00 MHz	36600.00 MHz	−87.15 dBc	−57.00 dBc	3.3 dB	
42000.00 MHz	42600.00 MHz	−90.55 dBc	−57.00 dBc	3.3 dB	
44000.00 MHz	44600.00 MHz	−80.85 dBc	−57.00 dBc	3.3 dB	

Image/Multiple/Feedthru Spurs B40 IF Path

Spurious Frequency	Source Frequency	Measured	Maximum	Uncert.	Status
1100.00 MHz	1600.00 MHz	−98.39 dBc	−80.00 dBc	2.6 dB	
7000.00 MHz	7500.00 MHz	−115.91 dBc	−78.00 dBc	2.7 dB	
8000.00 MHz	8500.00 MHz	−114.12 dBc	−78.00 dBc	2.7 dB	
13000.00 MHz	13500.00 MHz	−107.36 dBc	−78.00 dBc	2.7 dB	
16500.00 MHz	17000.00 MHz	−111.65 dBc	−74.00 dBc	2.7 dB	
20400.00 MHz	20900.00 MHz	−106.47 dBc	−70.00 dBc	3.0 dB	
25750.00 MHz	26250.00 MHz	−99.15 dBc	−68.00 dBc	3.0 dB	
30000.00 MHz	30500.00 MHz	−98.45 dBc	−60.00 dBc	3.3 dB	
35000.00 MHz	35500.00 MHz	−88.96 dBc	−57.00 dBc	3.3 dB	
38000.00 MHz	38500.00 MHz	−90.06 dBc	−57.00 dBc	3.3 dB	
40000.00 MHz	40500.00 MHz	−92.24 dBc	−57.00 dBc	3.3 dB	
44000.00 MHz	44500.00 MHz	−81.28 dBc	−57.00 dBc	3.3 dB	

Image/Multiple/Feedthru Spurs STD IF Path

Spurious Frequency	Source Frequency	Measured	Maximum	Uncert.	Status
225.00 MHz	10470.00 MHz	−124.62 dBc	−80.00 dBc	12 dB	
1100.00 MHz	1745.00 MHz	−101.48 dBc	−80.00 dBc	3.5 dB	
5500.00 MHz	6145.00 MHz	−111.32 dBc	−80.00 dBc	10 dB	
12000.00 MHz	12645.00 MHz	−107.49 dBc	−80.00 dBc	7.3 dB	
15000.00 MHz	15645.00 MHz	−110.30 dBc	−80.00 dBc	9.3 dB	
15500.00 MHz	16145.00 MHz	−105.90 dBc	−80.00 dBc	7.5 dB	
20500.00 MHz	21145.00 MHz	−108.69 dBc	−80.00 dBc	10 dB	
23000.00 MHz	23645.00 MHz	−107.17 dBc	−80.00 dBc	11 dB	
28000.00 MHz	28645.00 MHz	−89.50 dBc	−70.00 dBc	12 dB	

Spurious Responses (cont.)

Spurious Frequency	Source Frequency	Measured	Maximum	Uncert.	Status
30000.00 MHz	30645.00 MHz	−90.24 dBc	−70.00 dBc	12 dB	
37000.00 MHz	37645.00 MHz	−86.77 dBc	−60.00 dBc	13 dB	
42000.00 MHz	42645.00 MHz	−82.92 dBc	−60.00 dBc	13 dB	

Gain Compression — Passed

Center Frequency	Mixer Level	Measured	Maximum	Uncert.	Status
50 MHz	1.0 dBm	0.00 dB	1.0 dB	0.14 dB	
200 MHz	3.0 dBm	0.00 dB	1.0 dB	0.14 dB	
500 MHz	3.0 dBm	0.00 dB	1.0 dB	0.14 dB	
2000 MHz	3.0 dBm	0.00 dB	1.0 dB	0.14 dB	
3000 MHz	3.0 dBm	0.00 dB	1.0 dB	0.14 dB	
3500 MHz	3.0 dBm	0.00 dB	1.0 dB	0.14 dB	
6000 MHz	1.0 dBm	0.00 dB	1.0 dB	0.14 dB	
11000 MHz	1.0 dBm	0.00 dB	1.0 dB	0.14 dB	
15300 MHz	1.0 dBm	0.00 dB	1.0 dB	0.14 dB	
19900 MHz	−1.0 dBm	0.00 dB	1.0 dB	0.17 dB	

Third Order Intermodulation Distortion — Passed

Frequency	Minimum	Measured	Uncert.	Status
50.01 MHz	13.0 dBm	19.98 dBm	0.29 dB	
1700.21 MHz	21.0 dBm	22.56 dBm	0.36 dB	
2800.21 MHz	21.0 dBm	23.41 dBm	0.39 dB	
5000.21 MHz	16.0 dBm	24.33 dBm	0.58 dB	
13000.21 MHz	16.0 dBm	25.06 dBm	0.54 dB	
19500.21 MHz	13.0 dBm	24.05 dBm	0.83 dB	
23500.21 MHz	13.0 dBm	26.27 dBm	1.7 dB	
28000.21 MHz	13.0 dBm	23.64 dBm	3.2 dB	
37000.21 MHz	10.0 dBm	19.02 dBm	2.7 dB	
41500.21 MHz	10.0 dBm	22.18 dBm	6.0 dB	
46000.21 MHz	10.0 dBm	21.88 dBm	6.0 dB	

Second Harmonic Distortion — Passed

Standard Path, Mixer Level = -15.00 dBm

Frequency	Measured	Maximum	Uncert.	Status
50.10 MHz	−83.81 dBc	−57.00 dBc	0.90 dB	
290.10 MHz	−88.94 dBc	−60.00 dBc	0.90 dB	
1748.10 MHz	−79.45 dBc	−60.00 dBc	0.90 dB	
3900.10 MHz	−81.28 dBc	−77.00 dBc	0.90 dB	
8200.10 MHz	−99.65 dBc	−70.00 dBc	1.2 dB	
11750.10 MHz	−92.24 dBc	−62.00 dBc	1.1 dB	

Second Harmonic Distortion (cont.)

LowNoise Path, Mixer Level = -15.00 dBm

Frequency	Measured	Maximum	Uncert.	Status
3900.10 MHz	−109.28 dBc	−99.00 dBc	1.4 dB	
8200.10 MHz	−111.59 dBc	−105.00 dBc	1.8 dB	
11750.10 MHz	−108.73 dBc	−105.00 dBc	1.8 dB	

Absolute Amplitude Accuracy — Passed

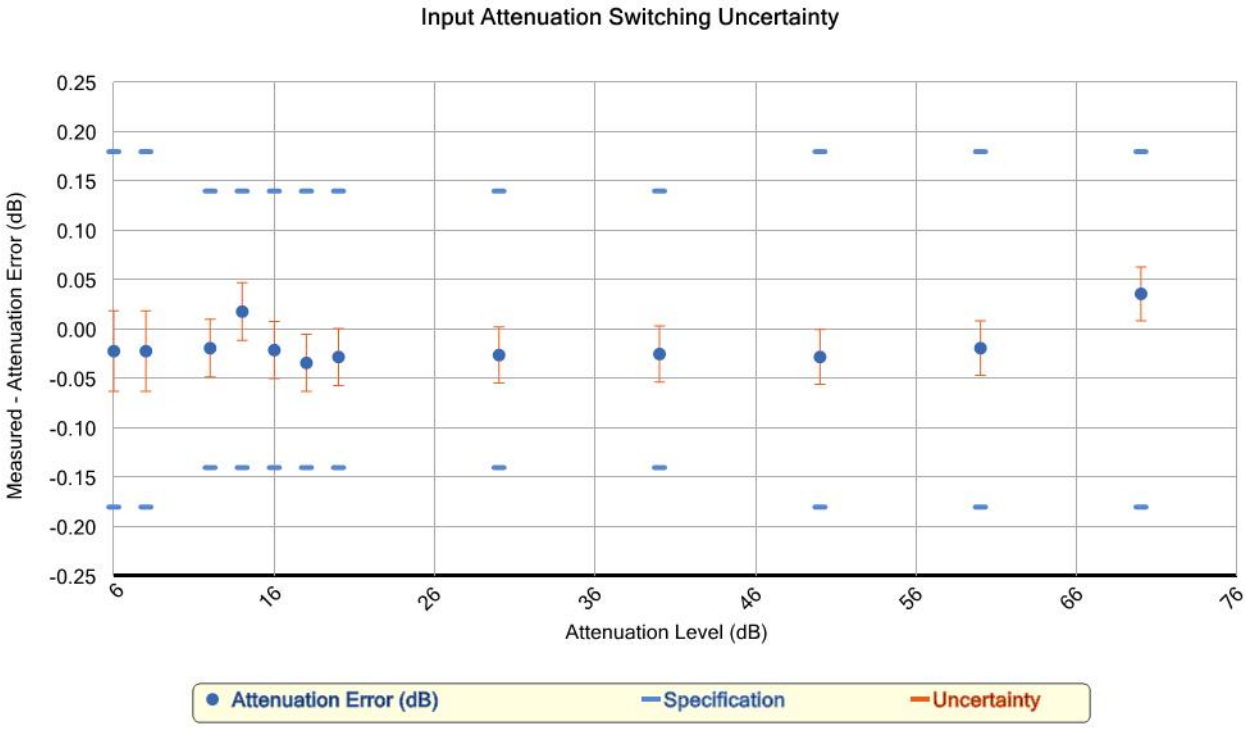
Preamp Off

Nominal Input Level	Resolution Bandwidth	Span	Measured Amplitude	Minimum	Measured	Maximum	Uncert.	Sts
−11.00 dBm	820.00 kHz	4990.00 kHz	−10.989 dBm	−0.24 dB	−0.017 dB	0.24 dB	0.082 dB	
−13.00 dBm	360.00 kHz	4990.00 kHz	−12.965 dBm	−0.24 dB	0.006 dB	0.24 dB	0.082 dB	
−21.00 dBm	47.00 kHz	4982.00 kHz	−20.938 dBm	−0.24 dB	0.040 dB	0.24 dB	0.082 dB	
−26.00 dBm	30.00 kHz	3180.00 kHz	−26.004 dBm	−0.24 dB	0.040 dB	0.24 dB	0.082 dB	
−36.00 dBm	4.70 kHz	498.20 kHz	−36.045 dBm	−0.24 dB	0.003 dB	0.24 dB	0.083 dB	
−51.00 dBm	2.00 kHz	212.00 kHz	−51.064 dBm	−0.24 dB	0.004 dB	0.24 dB	0.083 dB	

Preamp On

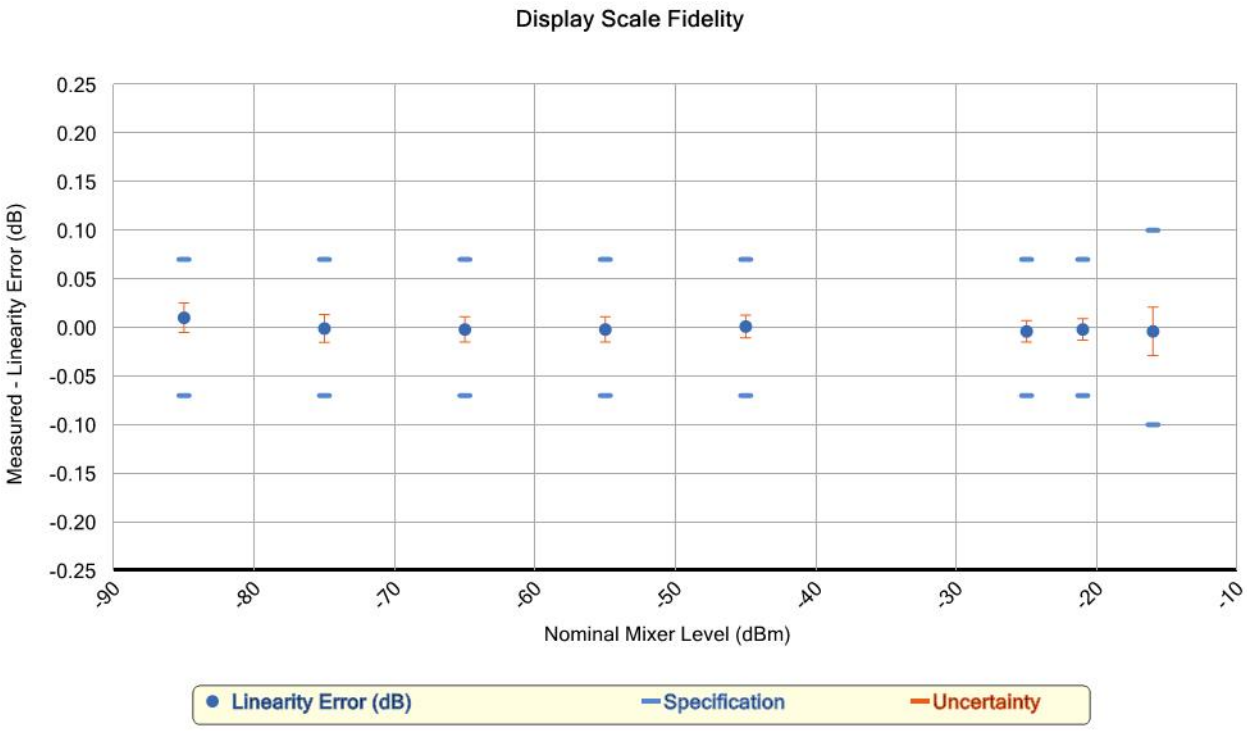
Nominal Input Level	Resolution Bandwidth	Span	Measured Amplitude	Minimum	Measured	Maximum	Uncert.	Sts
−41.00 dBm	47.00 kHz	4982.00 kHz	−40.973 dBm	−0.36 dB	0.069 dB	0.36 dB	0.083 dB	
−61.00 dBm	7.50 kHz	795.00 kHz	−61.042 dBm	−0.36 dB	0.031 dB	0.36 dB	0.083 dB	
−81.00 dBm	1.00 kHz	106.00 kHz	−81.113 dBm	−0.36 dB	0.026 dB	0.36 dB	0.088 dB	

Input Attenuation Switching Uncertainty — Passed



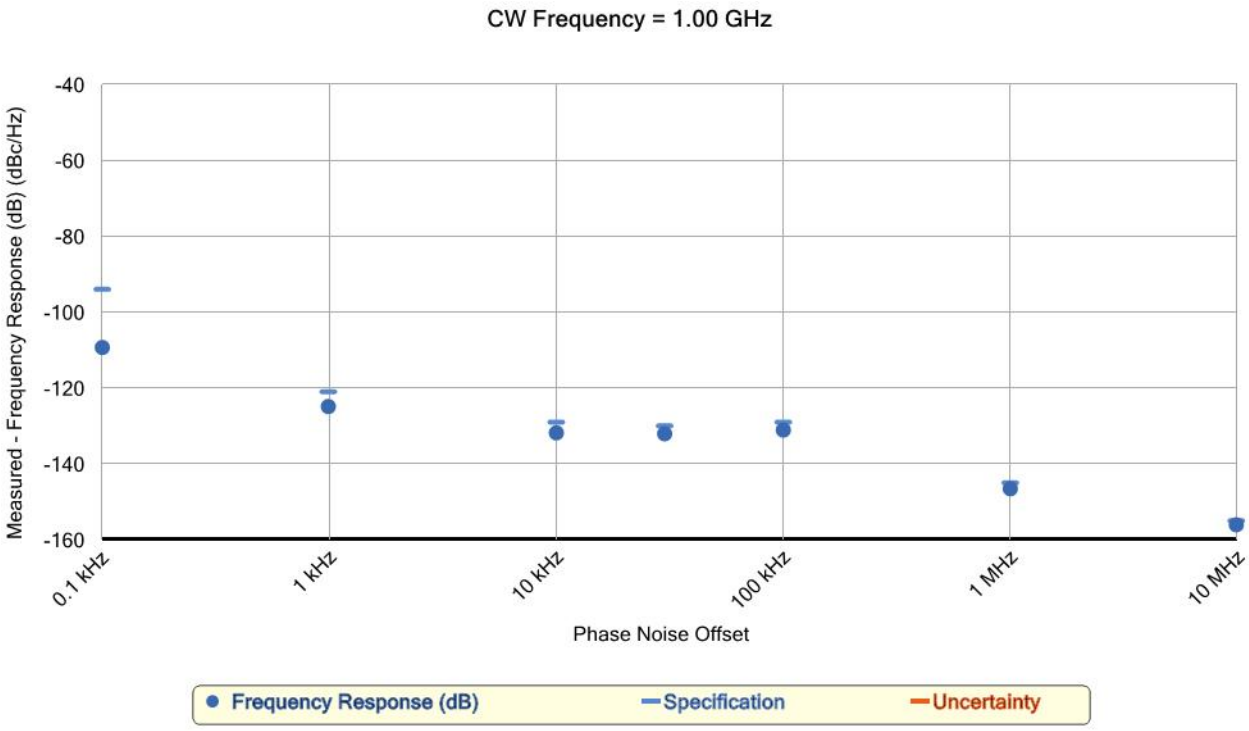
Attenuation Level	Minimum	Measured	Maximum	Uncert.	Status
6.00 dB	−0.18 dB	−0.022 dB	0.18 dB	0.041 dB	
8.00 dB	−0.18 dB	−0.022 dB	0.18 dB	0.041 dB	
12.00 dB	−0.14 dB	−0.019 dB	0.14 dB	0.029 dB	
14.00 dB	−0.14 dB	0.018 dB	0.14 dB	0.029 dB	
16.00 dB	−0.14 dB	−0.021 dB	0.14 dB	0.029 dB	
18.00 dB	−0.14 dB	−0.034 dB	0.14 dB	0.029 dB	
20.00 dB	−0.14 dB	−0.028 dB	0.14 dB	0.029 dB	
30.00 dB	−0.14 dB	−0.026 dB	0.14 dB	0.028 dB	
40.00 dB	−0.14 dB	−0.025 dB	0.14 dB	0.028 dB	
50.00 dB	−0.18 dB	−0.028 dB	0.18 dB	0.028 dB	
60.00 dB	−0.18 dB	−0.019 dB	0.18 dB	0.028 dB	
70.00 dB	−0.18 dB	0.036 dB	0.18 dB	0.027 dB	

Display Scale Fidelity — Passed



Nominal Mixer Level	Measured Input Level	Minimum	Measured	Maximum	Uncert.	Status
−85.00 dBm	−75.18 dBm	−0.07 dB	0.010 dB	0.07 dB	0.015 dB	
−75.00 dBm	−65.13 dBm	−0.07 dB	−0.001 dB	0.07 dB	0.014 dB	
−65.00 dBm	−55.12 dBm	−0.07 dB	−0.002 dB	0.07 dB	0.013 dB	
−55.00 dBm	−45.10 dBm	−0.07 dB	−0.002 dB	0.07 dB	0.013 dB	
−45.00 dBm	−35.09 dBm	−0.07 dB	0.001 dB	0.07 dB	0.012 dB	
−25.00 dBm	−15.03 dBm	−0.07 dB	−0.004 dB	0.07 dB	0.011 dB	
−21.00 dBm	−11.03 dBm	−0.07 dB	−0.002 dB	0.07 dB	0.011 dB	
−16.00 dBm	−5.82 dBm	−0.10 dB	−0.004 dB	0.10 dB	0.025 dB	

Phase Noise — Passed



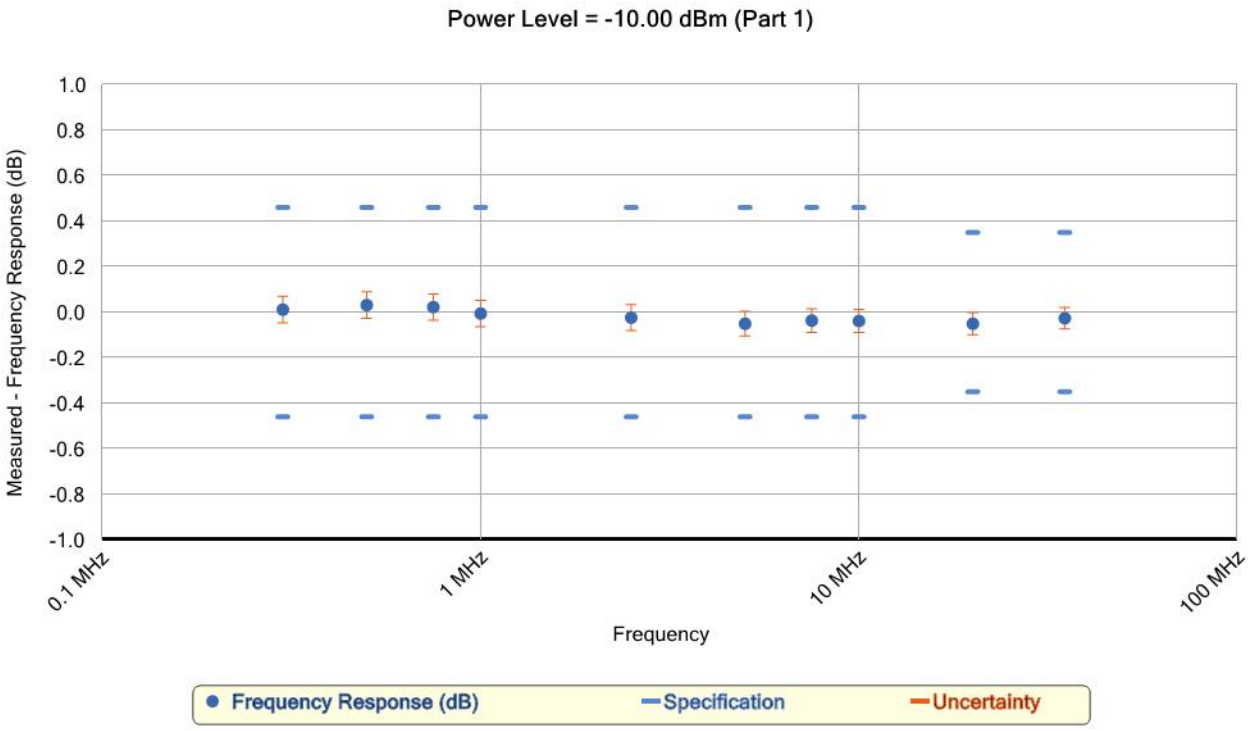
CW Frequency = 1.00 GHz

Phase Noise Offset	Measured	Maximum	Uncert.	Status
0.10 kHz	−109.31 dBc/Hz	−94.00 dBc/Hz	0.61 dB	
0.99 kHz	−124.87 dBc/Hz	−121.00 dBc/Hz	0.44 dB	
10.00 kHz	−131.81 dBc/Hz	−129.00 dBc/Hz	0.44 dB	
30.00 kHz	−132.05 dBc/Hz	−130.00 dBc/Hz	0.43 dB	
100.00 kHz	−131.08 dBc/Hz	−129.00 dBc/Hz	0.67 dB	
1000.00 kHz	−146.55 dBc/Hz	−145.00 dBc/Hz	0.67 dB	
9900.00 kHz	−156.06 dBc/Hz	−155.00 dBc/Hz	0.67 dB	

The reported value for phase noise represents both the phase noise of the X-Series Signal Analyzer plus the phase noise of the signal source used for this measurement. For reported values near the specification limit, the phase noise contribution from the signal source is negligible. However, for reported values significantly better than the specification limit, the contribution from the signal source may be significant. For these cases, it can be assumed the X-Series Signal Analyzer phase noise is better than the reported value.

The reported Uncertainties assume measured values near the specification limit.

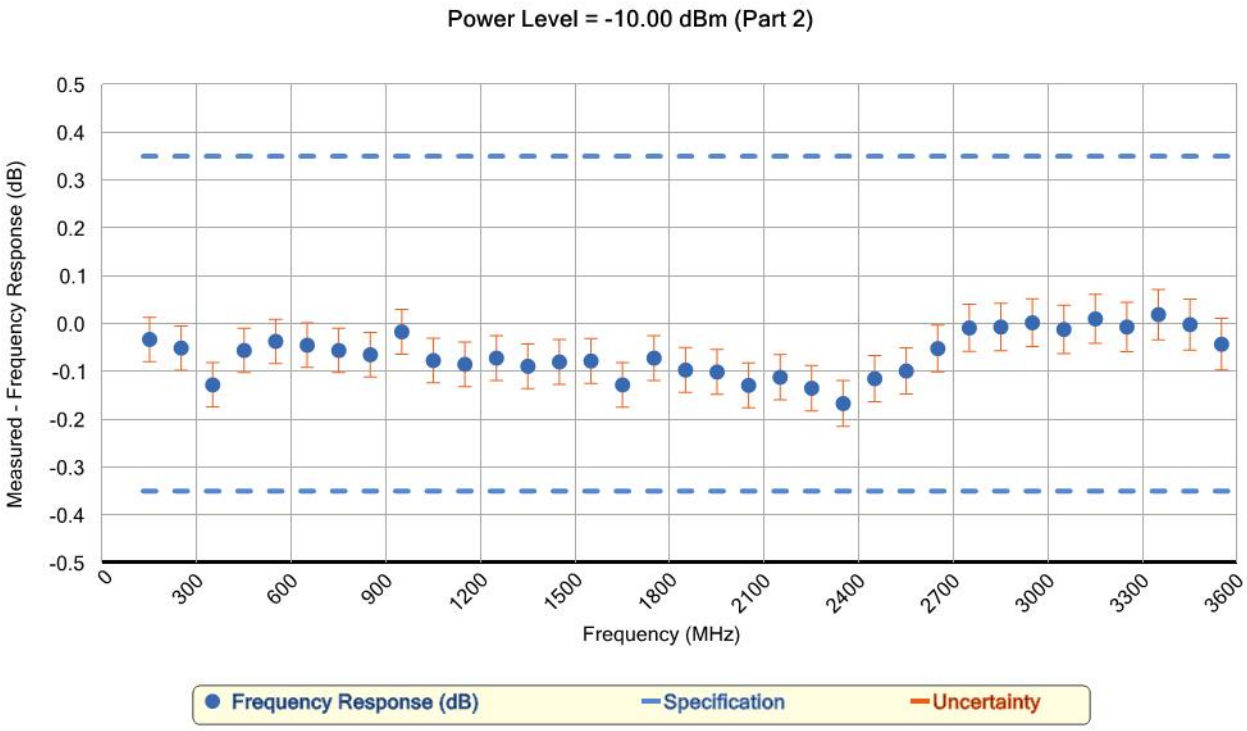
Freq Resp 300 kHz to 3.6 GHz Preamp Off — Passed



Power Level = -10.00 dBm (Part 1)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
0.30 MHz	−0.46 dB	0.011 dB	0.46 dB	0.058 dB	
0.50 MHz	−0.46 dB	0.031 dB	0.46 dB	0.058 dB	
0.75 MHz	−0.46 dB	0.022 dB	0.46 dB	0.058 dB	
1.00 MHz	−0.46 dB	−0.006 dB	0.46 dB	0.058 dB	
2.50 MHz	−0.46 dB	−0.024 dB	0.46 dB	0.056 dB	
5.00 MHz	−0.46 dB	−0.051 dB	0.46 dB	0.054 dB	
7.50 MHz	−0.46 dB	−0.037 dB	0.46 dB	0.052 dB	
10.00 MHz	−0.46 dB	−0.039 dB	0.46 dB	0.050 dB	
20.00 MHz	−0.35 dB	−0.051 dB	0.35 dB	0.049 dB	
35.00 MHz	−0.35 dB	−0.027 dB	0.35 dB	0.047 dB	

Freq Resp 300 kHz to 3.6 GHz Preamp Off (cont.)



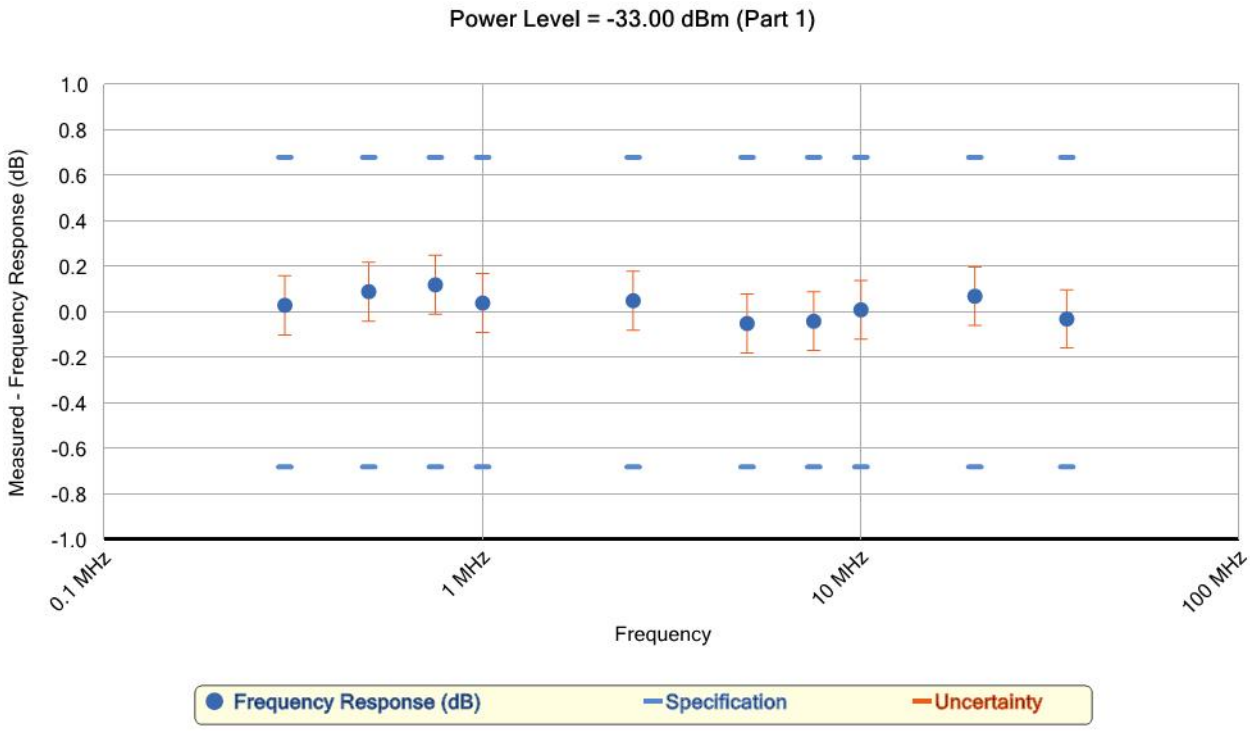
Power Level = -10.00 dBm (Part 2)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
150.00 MHz	−0.35 dB	−0.033 dB	0.35 dB	0.046 dB	
250.00 MHz	−0.35 dB	−0.051 dB	0.35 dB	0.046 dB	
350.00 MHz	−0.35 dB	−0.128 dB	0.35 dB	0.046 dB	
450.00 MHz	−0.35 dB	−0.056 dB	0.35 dB	0.046 dB	
550.00 MHz	−0.35 dB	−0.037 dB	0.35 dB	0.046 dB	
650.00 MHz	−0.35 dB	−0.045 dB	0.35 dB	0.046 dB	
750.00 MHz	−0.35 dB	−0.056 dB	0.35 dB	0.046 dB	
850.00 MHz	−0.35 dB	−0.065 dB	0.35 dB	0.047 dB	
950.00 MHz	−0.35 dB	−0.017 dB	0.35 dB	0.047 dB	
1050.00 MHz	−0.35 dB	−0.077 dB	0.35 dB	0.047 dB	
1150.00 MHz	−0.35 dB	−0.085 dB	0.35 dB	0.047 dB	
1250.00 MHz	−0.35 dB	−0.072 dB	0.35 dB	0.047 dB	
1350.00 MHz	−0.35 dB	−0.089 dB	0.35 dB	0.047 dB	
1450.00 MHz	−0.35 dB	−0.080 dB	0.35 dB	0.047 dB	
1550.00 MHz	−0.35 dB	−0.078 dB	0.35 dB	0.047 dB	
1650.00 MHz	−0.35 dB	−0.128 dB	0.35 dB	0.047 dB	
1750.00 MHz	−0.35 dB	−0.072 dB	0.35 dB	0.047 dB	
1850.00 MHz	−0.35 dB	−0.097 dB	0.35 dB	0.047 dB	
1950.00 MHz	−0.35 dB	−0.101 dB	0.35 dB	0.047 dB	
2050.00 MHz	−0.35 dB	−0.129 dB	0.35 dB	0.047 dB	
2150.00 MHz	−0.35 dB	−0.112 dB	0.35 dB	0.047 dB	

Freq Resp 300 kHz to 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
2250.00 MHz	−0.35 dB	−0.135 dB	0.35 dB	0.048 dB	
2350.00 MHz	−0.35 dB	−0.167 dB	0.35 dB	0.048 dB	
2450.00 MHz	−0.35 dB	−0.115 dB	0.35 dB	0.048 dB	
2550.00 MHz	−0.35 dB	−0.099 dB	0.35 dB	0.048 dB	
2650.00 MHz	−0.35 dB	−0.052 dB	0.35 dB	0.049 dB	
2750.00 MHz	−0.35 dB	−0.009 dB	0.35 dB	0.049 dB	
2850.00 MHz	−0.35 dB	−0.007 dB	0.35 dB	0.050 dB	
2950.00 MHz	−0.35 dB	0.002 dB	0.35 dB	0.050 dB	
3050.00 MHz	−0.35 dB	−0.012 dB	0.35 dB	0.051 dB	
3150.00 MHz	−0.35 dB	0.010 dB	0.35 dB	0.051 dB	
3250.00 MHz	−0.35 dB	−0.007 dB	0.35 dB	0.052 dB	
3350.00 MHz	−0.35 dB	0.019 dB	0.35 dB	0.053 dB	
3450.00 MHz	−0.35 dB	−0.002 dB	0.35 dB	0.053 dB	
3550.00 MHz	−0.35 dB	−0.043 dB	0.35 dB	0.054 dB	

Freq Resp 300 kHz to 3.6 GHz Preamp On **Passed**

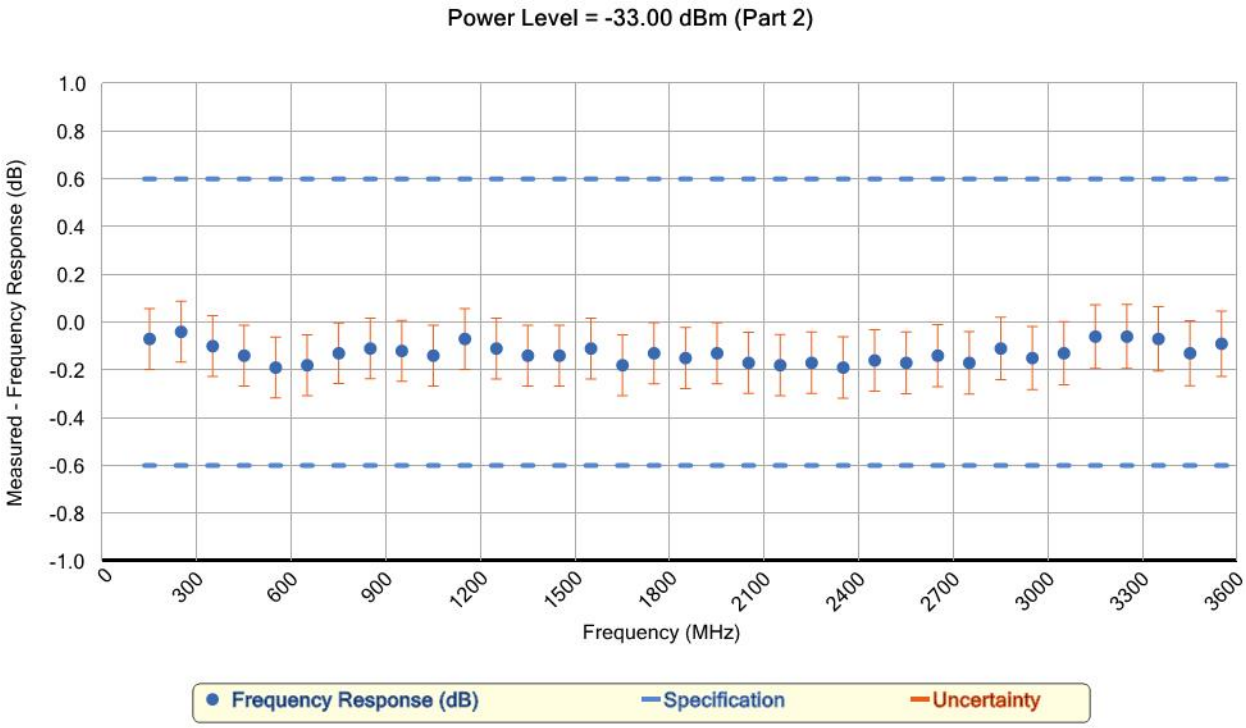


Power Level = -33.00 dBm (Part 1)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
0.30 MHz	−0.68 dB	0.03 dB	0.68 dB	0.13 dB	
0.50 MHz	−0.68 dB	0.09 dB	0.68 dB	0.13 dB	

Freq Resp 300 kHz to 3.6 GHz Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
0.75 MHz	−0.68 dB	0.12 dB	0.68 dB	0.13 dB	
1.00 MHz	−0.68 dB	0.04 dB	0.68 dB	0.13 dB	
2.50 MHz	−0.68 dB	0.05 dB	0.68 dB	0.13 dB	
5.00 MHz	−0.68 dB	−0.05 dB	0.68 dB	0.13 dB	
7.50 MHz	−0.68 dB	−0.04 dB	0.68 dB	0.13 dB	
10.00 MHz	−0.68 dB	0.01 dB	0.68 dB	0.13 dB	
20.00 MHz	−0.68 dB	0.07 dB	0.68 dB	0.13 dB	
35.00 MHz	−0.68 dB	−0.03 dB	0.68 dB	0.13 dB	



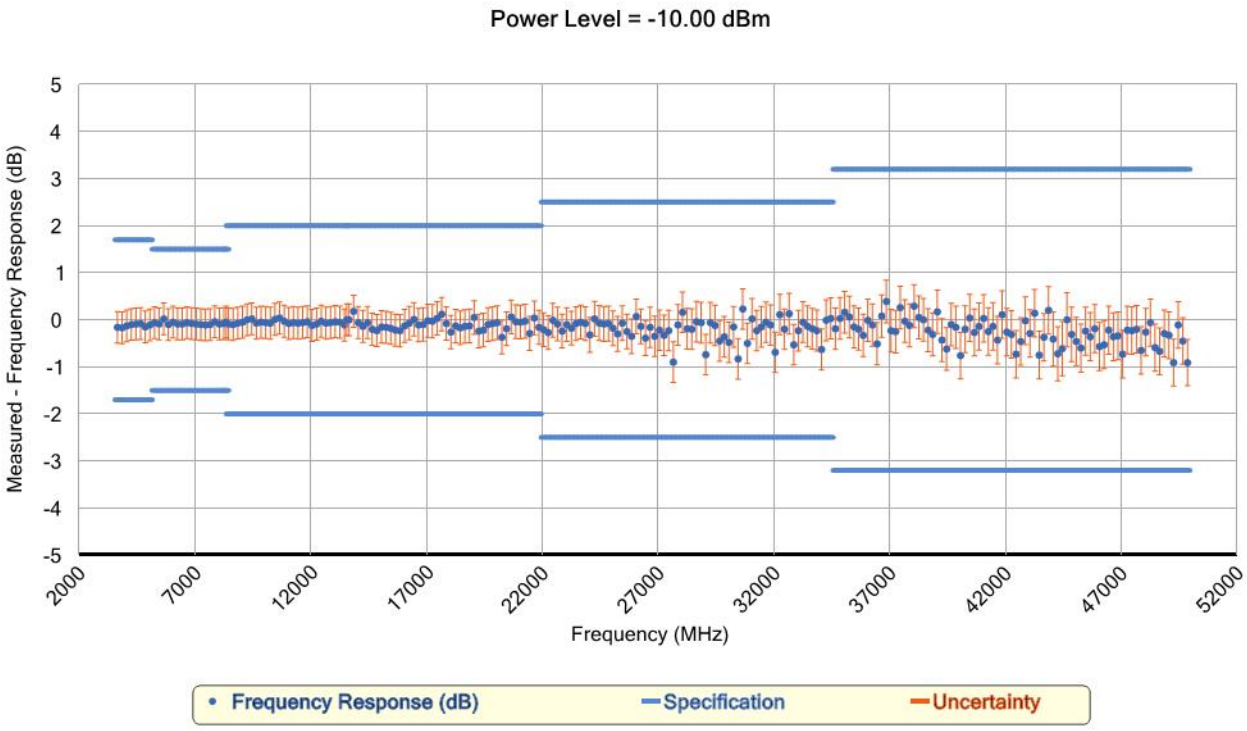
Power Level = -33.00 dBm (Part 2)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
150.00 MHz	−0.60 dB	−0.07 dB	0.60 dB	0.13 dB	
250.00 MHz	−0.60 dB	−0.04 dB	0.60 dB	0.13 dB	
350.00 MHz	−0.60 dB	−0.10 dB	0.60 dB	0.13 dB	
450.00 MHz	−0.60 dB	−0.14 dB	0.60 dB	0.13 dB	
550.00 MHz	−0.60 dB	−0.19 dB	0.60 dB	0.13 dB	
650.00 MHz	−0.60 dB	−0.18 dB	0.60 dB	0.13 dB	
750.00 MHz	−0.60 dB	−0.13 dB	0.60 dB	0.13 dB	
850.00 MHz	−0.60 dB	−0.11 dB	0.60 dB	0.13 dB	
950.00 MHz	−0.60 dB	−0.12 dB	0.60 dB	0.13 dB	
1050.00 MHz	−0.60 dB	−0.14 dB	0.60 dB	0.13 dB	
1150.00 MHz	−0.60 dB	−0.07 dB	0.60 dB	0.13 dB	

Freq Resp 300 kHz to 3.6 GHz Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
1250.00 MHz	−0.60 dB	−0.11 dB	0.60 dB	0.13 dB	
1350.00 MHz	−0.60 dB	−0.14 dB	0.60 dB	0.13 dB	
1450.00 MHz	−0.60 dB	−0.14 dB	0.60 dB	0.13 dB	
1550.00 MHz	−0.60 dB	−0.11 dB	0.60 dB	0.13 dB	
1650.00 MHz	−0.60 dB	−0.18 dB	0.60 dB	0.13 dB	
1750.00 MHz	−0.60 dB	−0.13 dB	0.60 dB	0.13 dB	
1850.00 MHz	−0.60 dB	−0.15 dB	0.60 dB	0.13 dB	
1950.00 MHz	−0.60 dB	−0.13 dB	0.60 dB	0.13 dB	
2050.00 MHz	−0.60 dB	−0.17 dB	0.60 dB	0.13 dB	
2150.00 MHz	−0.60 dB	−0.18 dB	0.60 dB	0.13 dB	
2250.00 MHz	−0.60 dB	−0.17 dB	0.60 dB	0.13 dB	
2350.00 MHz	−0.60 dB	−0.19 dB	0.60 dB	0.13 dB	
2450.00 MHz	−0.60 dB	−0.16 dB	0.60 dB	0.13 dB	
2550.00 MHz	−0.60 dB	−0.17 dB	0.60 dB	0.13 dB	
2650.00 MHz	−0.60 dB	−0.14 dB	0.60 dB	0.13 dB	
2750.00 MHz	−0.60 dB	−0.17 dB	0.60 dB	0.13 dB	
2850.00 MHz	−0.60 dB	−0.11 dB	0.60 dB	0.13 dB	
2950.00 MHz	−0.60 dB	−0.15 dB	0.60 dB	0.13 dB	
3050.00 MHz	−0.60 dB	−0.13 dB	0.60 dB	0.13 dB	
3150.00 MHz	−0.60 dB	−0.06 dB	0.60 dB	0.13 dB	
3250.00 MHz	−0.60 dB	−0.06 dB	0.60 dB	0.13 dB	
3350.00 MHz	−0.60 dB	−0.07 dB	0.60 dB	0.14 dB	
3450.00 MHz	−0.60 dB	−0.13 dB	0.60 dB	0.14 dB	
3550.00 MHz	−0.60 dB	−0.09 dB	0.60 dB	0.14 dB	

Freq Resp Above 3.6 GHz Preamp Off — Passed



Power Level = -10.00 dBm

Frequency	Minimum	Measured	Maximum	Uncert.	Status
3650.00 MHz	−1.70 dB	−0.16 dB	1.70 dB	0.34 dB	
3850.00 MHz	−1.70 dB	−0.17 dB	1.70 dB	0.34 dB	
4050.00 MHz	−1.70 dB	−0.13 dB	1.70 dB	0.34 dB	
4250.00 MHz	−1.70 dB	−0.10 dB	1.70 dB	0.34 dB	
4450.00 MHz	−1.70 dB	−0.09 dB	1.70 dB	0.34 dB	
4650.00 MHz	−1.70 dB	−0.08 dB	1.70 dB	0.34 dB	
4850.00 MHz	−1.70 dB	−0.15 dB	1.70 dB	0.34 dB	
5050.00 MHz	−1.70 dB	−0.11 dB	1.70 dB	0.34 dB	
5250.00 MHz	−1.50 dB	−0.06 dB	1.50 dB	0.34 dB	
5450.00 MHz	−1.50 dB	−0.09 dB	1.50 dB	0.34 dB	
5650.00 MHz	−1.50 dB	0.02 dB	1.50 dB	0.34 dB	
5850.00 MHz	−1.50 dB	−0.10 dB	1.50 dB	0.34 dB	
6050.00 MHz	−1.50 dB	−0.05 dB	1.50 dB	0.34 dB	
6250.00 MHz	−1.50 dB	−0.09 dB	1.50 dB	0.34 dB	
6450.00 MHz	−1.50 dB	−0.09 dB	1.50 dB	0.34 dB	
6650.00 MHz	−1.50 dB	−0.06 dB	1.50 dB	0.34 dB	
6850.00 MHz	−1.50 dB	−0.08 dB	1.50 dB	0.34 dB	
7050.00 MHz	−1.50 dB	−0.09 dB	1.50 dB	0.34 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
7250.00 MHz	−1.50 dB	−0.10 dB	1.50 dB	0.34 dB	
7450.00 MHz	−1.50 dB	−0.11 dB	1.50 dB	0.34 dB	
7650.00 MHz	−1.50 dB	−0.10 dB	1.50 dB	0.34 dB	
7850.00 MHz	−1.50 dB	−0.04 dB	1.50 dB	0.34 dB	
8050.00 MHz	−1.50 dB	−0.09 dB	1.50 dB	0.34 dB	
8250.00 MHz	−1.50 dB	−0.08 dB	1.50 dB	0.34 dB	
8350.00 MHz	−1.50 dB	−0.05 dB	1.50 dB	0.34 dB	
8450.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.34 dB	
8650.00 MHz	−2.00 dB	−0.10 dB	2.00 dB	0.34 dB	
8850.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
9050.00 MHz	−2.00 dB	−0.05 dB	2.00 dB	0.34 dB	
9250.00 MHz	−2.00 dB	0.00 dB	2.00 dB	0.34 dB	
9450.00 MHz	−2.00 dB	0.02 dB	2.00 dB	0.34 dB	
9650.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
9850.00 MHz	−2.00 dB	−0.05 dB	2.00 dB	0.34 dB	
10050.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.34 dB	
10250.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
10450.00 MHz	−2.00 dB	0.01 dB	2.00 dB	0.34 dB	
10650.00 MHz	−2.00 dB	0.04 dB	2.00 dB	0.34 dB	
10850.00 MHz	−2.00 dB	−0.03 dB	2.00 dB	0.34 dB	
11050.00 MHz	−2.00 dB	−0.08 dB	2.00 dB	0.34 dB	
11250.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.34 dB	
11450.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
11650.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.34 dB	
11850.00 MHz	−2.00 dB	−0.04 dB	2.00 dB	0.34 dB	
12050.00 MHz	−2.00 dB	−0.12 dB	2.00 dB	0.34 dB	
12250.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.34 dB	
12450.00 MHz	−2.00 dB	−0.03 dB	2.00 dB	0.34 dB	
12650.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
12850.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.34 dB	
13050.00 MHz	−2.00 dB	−0.04 dB	2.00 dB	0.34 dB	
13250.00 MHz	−2.00 dB	−0.05 dB	2.00 dB	0.34 dB	
13450.00 MHz	−2.00 dB	−0.11 dB	2.00 dB	0.34 dB	
13550.00 MHz	−2.00 dB	0.00 dB	2.00 dB	0.34 dB	
13650.00 MHz	−2.00 dB	0.00 dB	2.00 dB	0.34 dB	
13850.00 MHz	−2.00 dB	0.18 dB	2.00 dB	0.34 dB	
14050.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.34 dB	
14250.00 MHz	−2.00 dB	−0.14 dB	2.00 dB	0.34 dB	
14450.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.34 dB	
14650.00 MHz	−2.00 dB	−0.20 dB	2.00 dB	0.34 dB	
14850.00 MHz	−2.00 dB	−0.23 dB	2.00 dB	0.34 dB	
15050.00 MHz	−2.00 dB	−0.15 dB	2.00 dB	0.34 dB	
15250.00 MHz	−2.00 dB	−0.16 dB	2.00 dB	0.34 dB	
15450.00 MHz	−2.00 dB	−0.18 dB	2.00 dB	0.34 dB	
15650.00 MHz	−2.00 dB	−0.22 dB	2.00 dB	0.34 dB	
15850.00 MHz	−2.00 dB	−0.23 dB	2.00 dB	0.34 dB	
16050.00 MHz	−2.00 dB	−0.13 dB	2.00 dB	0.35 dB	
16250.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.35 dB	
16450.00 MHz	−2.00 dB	0.01 dB	2.00 dB	0.35 dB	
16650.00 MHz	−2.00 dB	−0.11 dB	2.00 dB	0.35 dB	
16850.00 MHz	−2.00 dB	−0.10 dB	2.00 dB	0.35 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
17050.00 MHz	−2.00 dB	−0.02 dB	2.00 dB	0.35 dB	
17250.00 MHz	−2.00 dB	−0.03 dB	2.00 dB	0.35 dB	
17450.00 MHz	−2.00 dB	0.03 dB	2.00 dB	0.35 dB	
17650.00 MHz	−2.00 dB	0.12 dB	2.00 dB	0.35 dB	
17850.00 MHz	−2.00 dB	−0.08 dB	2.00 dB	0.35 dB	
18050.00 MHz	−2.00 dB	−0.26 dB	2.00 dB	0.35 dB	
18250.00 MHz	−2.00 dB	−0.13 dB	2.00 dB	0.35 dB	
18450.00 MHz	−2.00 dB	−0.17 dB	2.00 dB	0.36 dB	
18650.00 MHz	−2.00 dB	−0.14 dB	2.00 dB	0.36 dB	
18850.00 MHz	−2.00 dB	−0.13 dB	2.00 dB	0.36 dB	
19050.00 MHz	−2.00 dB	0.05 dB	2.00 dB	0.36 dB	
19250.00 MHz	−2.00 dB	−0.24 dB	2.00 dB	0.36 dB	
19450.00 MHz	−2.00 dB	−0.22 dB	2.00 dB	0.36 dB	
19650.00 MHz	−2.00 dB	−0.10 dB	2.00 dB	0.36 dB	
19850.00 MHz	−2.00 dB	−0.08 dB	2.00 dB	0.36 dB	
20050.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.36 dB	
20250.00 MHz	−2.00 dB	−0.37 dB	2.00 dB	0.36 dB	
20450.00 MHz	−2.00 dB	−0.19 dB	2.00 dB	0.36 dB	
20650.00 MHz	−2.00 dB	0.06 dB	2.00 dB	0.36 dB	
20850.00 MHz	−2.00 dB	−0.04 dB	2.00 dB	0.36 dB	
21050.00 MHz	−2.00 dB	−0.05 dB	2.00 dB	0.36 dB	
21250.00 MHz	−2.00 dB	−0.03 dB	2.00 dB	0.36 dB	
21450.00 MHz	−2.00 dB	−0.29 dB	2.00 dB	0.36 dB	
21650.00 MHz	−2.00 dB	0.04 dB	2.00 dB	0.36 dB	
21850.00 MHz	−2.00 dB	−0.16 dB	2.00 dB	0.36 dB	
22050.00 MHz	−2.50 dB	−0.21 dB	2.50 dB	0.36 dB	
22250.00 MHz	−2.50 dB	−0.27 dB	2.50 dB	0.36 dB	
22450.00 MHz	−2.50 dB	−0.01 dB	2.50 dB	0.36 dB	
22650.00 MHz	−2.50 dB	−0.09 dB	2.50 dB	0.36 dB	
22850.00 MHz	−2.50 dB	−0.24 dB	2.50 dB	0.36 dB	
23050.00 MHz	−2.50 dB	−0.10 dB	2.50 dB	0.36 dB	
23250.00 MHz	−2.50 dB	−0.18 dB	2.50 dB	0.36 dB	
23450.00 MHz	−2.50 dB	−0.08 dB	2.50 dB	0.36 dB	
23650.00 MHz	−2.50 dB	−0.05 dB	2.50 dB	0.36 dB	
23850.00 MHz	−2.50 dB	−0.08 dB	2.50 dB	0.36 dB	
24050.00 MHz	−2.50 dB	−0.32 dB	2.50 dB	0.37 dB	
24250.00 MHz	−2.50 dB	0.02 dB	2.50 dB	0.37 dB	
24450.00 MHz	−2.50 dB	−0.07 dB	2.50 dB	0.37 dB	
24650.00 MHz	−2.50 dB	−0.09 dB	2.50 dB	0.37 dB	
24850.00 MHz	−2.50 dB	−0.08 dB	2.50 dB	0.37 dB	
25050.00 MHz	−2.50 dB	−0.18 dB	2.50 dB	0.37 dB	
25250.00 MHz	−2.50 dB	−0.30 dB	2.50 dB	0.37 dB	
25450.00 MHz	−2.50 dB	−0.07 dB	2.50 dB	0.37 dB	
25650.00 MHz	−2.50 dB	−0.25 dB	2.50 dB	0.37 dB	
25850.00 MHz	−2.50 dB	−0.35 dB	2.50 dB	0.37 dB	
26050.00 MHz	−2.50 dB	0.07 dB	2.50 dB	0.37 dB	
26250.00 MHz	−2.50 dB	−0.14 dB	2.50 dB	0.37 dB	
26450.00 MHz	−2.50 dB	−0.39 dB	2.50 dB	0.37 dB	
26650.00 MHz	−2.50 dB	−0.16 dB	2.50 dB	0.43 dB	
26850.00 MHz	−2.50 dB	−0.35 dB	2.50 dB	0.43 dB	
27050.00 MHz	−2.50 dB	−0.22 dB	2.50 dB	0.43 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

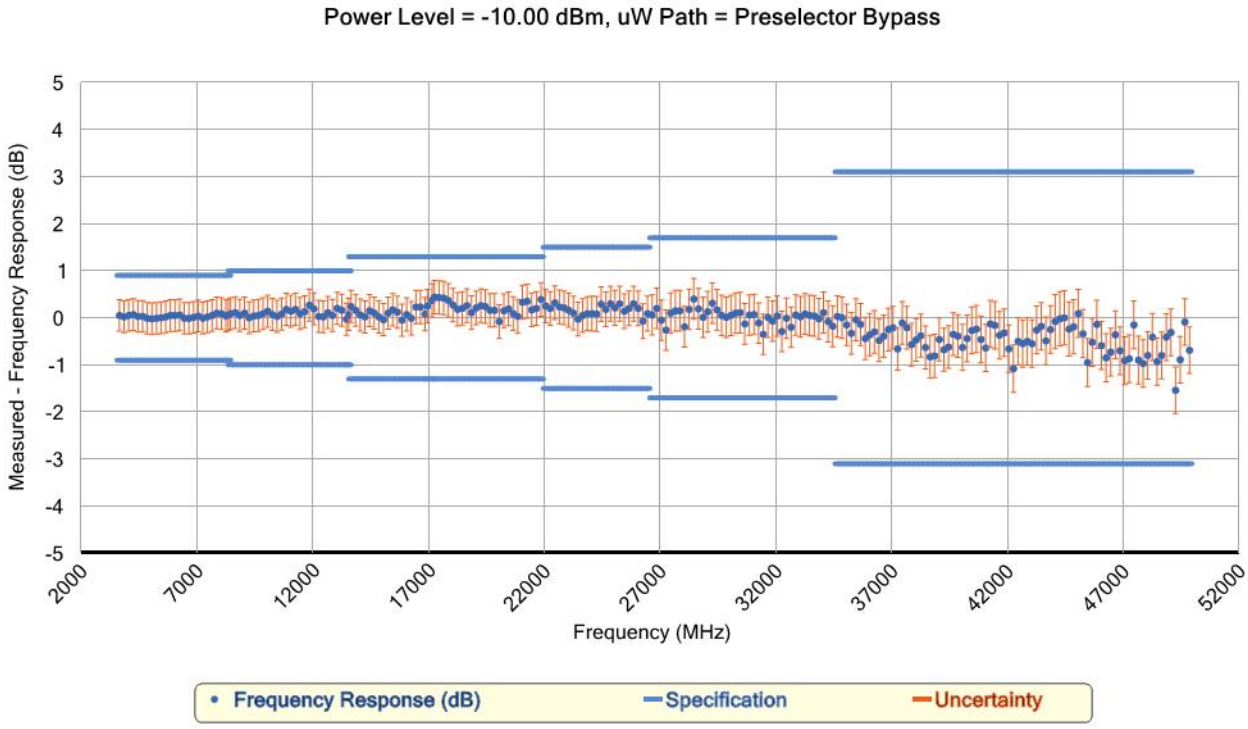
Frequency	Minimum	Measured	Maximum	Uncert.	Status
27250.00 MHz	−2.50 dB	−0.33 dB	2.50 dB	0.43 dB	
27450.00 MHz	−2.50 dB	−0.23 dB	2.50 dB	0.43 dB	
27650.00 MHz	−2.50 dB	−0.90 dB	2.50 dB	0.43 dB	
27850.00 MHz	−2.50 dB	−0.11 dB	2.50 dB	0.43 dB	
28050.00 MHz	−2.50 dB	0.16 dB	2.50 dB	0.43 dB	
28250.00 MHz	−2.50 dB	−0.19 dB	2.50 dB	0.43 dB	
28450.00 MHz	−2.50 dB	−0.20 dB	2.50 dB	0.43 dB	
28650.00 MHz	−2.50 dB	−0.04 dB	2.50 dB	0.43 dB	
28850.00 MHz	−2.50 dB	−0.06 dB	2.50 dB	0.43 dB	
29050.00 MHz	−2.50 dB	−0.74 dB	2.50 dB	0.43 dB	
29250.00 MHz	−2.50 dB	−0.06 dB	2.50 dB	0.43 dB	
29450.00 MHz	−2.50 dB	−0.12 dB	2.50 dB	0.43 dB	
29650.00 MHz	−2.50 dB	−0.45 dB	2.50 dB	0.43 dB	
29850.00 MHz	−2.50 dB	−0.36 dB	2.50 dB	0.43 dB	
30050.00 MHz	−2.50 dB	−0.48 dB	2.50 dB	0.43 dB	
30250.00 MHz	−2.50 dB	−0.15 dB	2.50 dB	0.43 dB	
30450.00 MHz	−2.50 dB	−0.83 dB	2.50 dB	0.43 dB	
30650.00 MHz	−2.50 dB	0.23 dB	2.50 dB	0.43 dB	
30850.00 MHz	−2.50 dB	−0.50 dB	2.50 dB	0.43 dB	
31050.00 MHz	−2.50 dB	0.02 dB	2.50 dB	0.43 dB	
31250.00 MHz	−2.50 dB	−0.23 dB	2.50 dB	0.43 dB	
31450.00 MHz	−2.50 dB	−0.15 dB	2.50 dB	0.43 dB	
31650.00 MHz	−2.50 dB	−0.05 dB	2.50 dB	0.43 dB	
31850.00 MHz	−2.50 dB	−0.11 dB	2.50 dB	0.43 dB	
32050.00 MHz	−2.50 dB	−0.69 dB	2.50 dB	0.43 dB	
32250.00 MHz	−2.50 dB	0.11 dB	2.50 dB	0.43 dB	
32450.00 MHz	−2.50 dB	−0.20 dB	2.50 dB	0.43 dB	
32650.00 MHz	−2.50 dB	0.13 dB	2.50 dB	0.43 dB	
32850.00 MHz	−2.50 dB	−0.53 dB	2.50 dB	0.43 dB	
33050.00 MHz	−2.50 dB	−0.23 dB	2.50 dB	0.43 dB	
33250.00 MHz	−2.50 dB	−0.05 dB	2.50 dB	0.43 dB	
33450.00 MHz	−2.50 dB	−0.14 dB	2.50 dB	0.43 dB	
33650.00 MHz	−2.50 dB	−0.19 dB	2.50 dB	0.43 dB	
33850.00 MHz	−2.50 dB	−0.23 dB	2.50 dB	0.44 dB	
34050.00 MHz	−2.50 dB	−0.63 dB	2.50 dB	0.44 dB	
34250.00 MHz	−2.50 dB	−0.01 dB	2.50 dB	0.44 dB	
34450.00 MHz	−2.50 dB	0.03 dB	2.50 dB	0.44 dB	
34650.00 MHz	−3.20 dB	−0.19 dB	3.20 dB	0.44 dB	
34850.00 MHz	−3.20 dB	0.03 dB	3.20 dB	0.44 dB	
35050.00 MHz	−3.20 dB	0.16 dB	3.20 dB	0.44 dB	
35250.00 MHz	−3.20 dB	0.06 dB	3.20 dB	0.44 dB	
35450.00 MHz	−3.20 dB	−0.15 dB	3.20 dB	0.44 dB	
35650.00 MHz	−3.20 dB	−0.20 dB	3.20 dB	0.45 dB	
35850.00 MHz	−3.20 dB	−0.33 dB	3.20 dB	0.45 dB	
36050.00 MHz	−3.20 dB	−0.01 dB	3.20 dB	0.45 dB	
36250.00 MHz	−3.20 dB	−0.11 dB	3.20 dB	0.45 dB	
36450.00 MHz	−3.20 dB	−0.51 dB	3.20 dB	0.45 dB	
36650.00 MHz	−3.20 dB	0.08 dB	3.20 dB	0.45 dB	
36850.00 MHz	−3.20 dB	0.39 dB	3.20 dB	0.45 dB	
37050.00 MHz	−3.20 dB	−0.23 dB	3.20 dB	0.45 dB	
37250.00 MHz	−3.20 dB	−0.25 dB	3.20 dB	0.45 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
37450.00 MHz	−3.20 dB	0.26 dB	3.20 dB	0.45 dB	
37650.00 MHz	−3.20 dB	−0.03 dB	3.20 dB	0.45 dB	
37850.00 MHz	−3.20 dB	−0.12 dB	3.20 dB	0.45 dB	
38050.00 MHz	−3.20 dB	0.29 dB	3.20 dB	0.45 dB	
38250.00 MHz	−3.20 dB	0.05 dB	3.20 dB	0.46 dB	
38450.00 MHz	−3.20 dB	0.00 dB	3.20 dB	0.46 dB	
38650.00 MHz	−3.20 dB	−0.22 dB	3.20 dB	0.46 dB	
38850.00 MHz	−3.20 dB	−0.31 dB	3.20 dB	0.46 dB	
39050.00 MHz	−3.20 dB	0.17 dB	3.20 dB	0.46 dB	
39250.00 MHz	−3.20 dB	−0.43 dB	3.20 dB	0.46 dB	
39450.00 MHz	−3.20 dB	−0.62 dB	3.20 dB	0.46 dB	
39650.00 MHz	−3.20 dB	−0.10 dB	3.20 dB	0.45 dB	
39850.00 MHz	−3.20 dB	−0.16 dB	3.20 dB	0.45 dB	
40050.00 MHz	−3.20 dB	−0.76 dB	3.20 dB	0.49 dB	
40250.00 MHz	−3.20 dB	−0.20 dB	3.20 dB	0.50 dB	
40450.00 MHz	−3.20 dB	0.04 dB	3.20 dB	0.50 dB	
40650.00 MHz	−3.20 dB	−0.27 dB	3.20 dB	0.50 dB	
40850.00 MHz	−3.20 dB	−0.14 dB	3.20 dB	0.50 dB	
41050.00 MHz	−3.20 dB	0.03 dB	3.20 dB	0.50 dB	
41250.00 MHz	−3.20 dB	−0.25 dB	3.20 dB	0.50 dB	
41450.00 MHz	−3.20 dB	−0.14 dB	3.20 dB	0.50 dB	
41650.00 MHz	−3.20 dB	−0.43 dB	3.20 dB	0.50 dB	
41850.00 MHz	−3.20 dB	0.11 dB	3.20 dB	0.50 dB	
42050.00 MHz	−3.20 dB	−0.26 dB	3.20 dB	0.50 dB	
42250.00 MHz	−3.20 dB	−0.31 dB	3.20 dB	0.50 dB	
42450.00 MHz	−3.20 dB	−0.73 dB	3.20 dB	0.51 dB	
42650.00 MHz	−3.20 dB	−0.46 dB	3.20 dB	0.51 dB	
42850.00 MHz	−3.20 dB	−0.02 dB	3.20 dB	0.51 dB	
43050.00 MHz	−3.20 dB	−0.29 dB	3.20 dB	0.51 dB	
43250.00 MHz	−3.20 dB	0.14 dB	3.20 dB	0.51 dB	
43450.00 MHz	−3.20 dB	−0.75 dB	3.20 dB	0.51 dB	
43650.00 MHz	−3.20 dB	−0.37 dB	3.20 dB	0.51 dB	
43850.00 MHz	−3.20 dB	0.20 dB	3.20 dB	0.51 dB	
44050.00 MHz	−3.20 dB	−0.41 dB	3.20 dB	0.57 dB	
44250.00 MHz	−3.20 dB	−0.72 dB	3.20 dB	0.57 dB	
44450.00 MHz	−3.20 dB	−0.61 dB	3.20 dB	0.58 dB	
44650.00 MHz	−3.20 dB	0.00 dB	3.20 dB	0.58 dB	
44850.00 MHz	−3.20 dB	−0.31 dB	3.20 dB	0.58 dB	
45050.00 MHz	−3.20 dB	−0.46 dB	3.20 dB	0.51 dB	
45250.00 MHz	−3.20 dB	−0.60 dB	3.20 dB	0.51 dB	
45450.00 MHz	−3.20 dB	−0.24 dB	3.20 dB	0.51 dB	
45650.00 MHz	−3.20 dB	−0.36 dB	3.20 dB	0.51 dB	
45850.00 MHz	−3.20 dB	−0.19 dB	3.20 dB	0.51 dB	
46050.00 MHz	−3.20 dB	−0.57 dB	3.20 dB	0.51 dB	
46250.00 MHz	−3.20 dB	−0.53 dB	3.20 dB	0.51 dB	
46450.00 MHz	−3.20 dB	−0.22 dB	3.20 dB	0.51 dB	
46650.00 MHz	−3.20 dB	−0.36 dB	3.20 dB	0.51 dB	
46850.00 MHz	−3.20 dB	−0.34 dB	3.20 dB	0.51 dB	
47050.00 MHz	−3.20 dB	−0.73 dB	3.20 dB	0.51 dB	
47250.00 MHz	−3.20 dB	−0.22 dB	3.20 dB	0.51 dB	
47450.00 MHz	−3.20 dB	−0.23 dB	3.20 dB	0.51 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
47650.00 MHz	−3.20 dB	−0.20 dB	3.20 dB	0.51 dB	
47850.00 MHz	−3.20 dB	−0.65 dB	3.20 dB	0.50 dB	
48050.00 MHz	−3.20 dB	−0.26 dB	3.20 dB	0.50 dB	
48250.00 MHz	−3.20 dB	−0.06 dB	3.20 dB	0.50 dB	
48450.00 MHz	−3.20 dB	−0.59 dB	3.20 dB	0.50 dB	
48650.00 MHz	−3.20 dB	−0.67 dB	3.20 dB	0.50 dB	
48850.00 MHz	−3.20 dB	−0.29 dB	3.20 dB	0.50 dB	
49050.00 MHz	−3.20 dB	−0.33 dB	3.20 dB	0.50 dB	
49250.00 MHz	−3.20 dB	−0.91 dB	3.20 dB	0.50 dB	
49450.00 MHz	−3.20 dB	−0.11 dB	3.20 dB	0.49 dB	
49650.00 MHz	−3.20 dB	−0.45 dB	3.20 dB	0.49 dB	
49850.00 MHz	−3.20 dB	−0.91 dB	3.20 dB	0.49 dB	



Power Level = -10.00 dBm, uW Path = Preselector Bypass

Frequency	Minimum	Measured	Maximum	Uncert.	Status
3650.00 MHz	−0.90 dB	0.05 dB	0.90 dB	0.34 dB	
3850.00 MHz	−0.90 dB	0.02 dB	0.90 dB	0.34 dB	
4050.00 MHz	−0.90 dB	0.05 dB	0.90 dB	0.34 dB	
4250.00 MHz	−0.90 dB	0.07 dB	0.90 dB	0.34 dB	
4450.00 MHz	−0.90 dB	0.03 dB	0.90 dB	0.34 dB	
4650.00 MHz	−0.90 dB	0.03 dB	0.90 dB	0.34 dB	
4850.00 MHz	−0.90 dB	−0.01 dB	0.90 dB	0.34 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
5050.00 MHz	−0.90 dB	−0.02 dB	0.90 dB	0.34 dB	
5250.00 MHz	−0.90 dB	−0.01 dB	0.90 dB	0.34 dB	
5450.00 MHz	−0.90 dB	0.00 dB	0.90 dB	0.34 dB	
5650.00 MHz	−0.90 dB	0.02 dB	0.90 dB	0.34 dB	
5850.00 MHz	−0.90 dB	0.05 dB	0.90 dB	0.34 dB	
6050.00 MHz	−0.90 dB	0.05 dB	0.90 dB	0.34 dB	
6250.00 MHz	−0.90 dB	0.06 dB	0.90 dB	0.34 dB	
6450.00 MHz	−0.90 dB	−0.01 dB	0.90 dB	0.34 dB	
6650.00 MHz	−0.90 dB	−0.01 dB	0.90 dB	0.34 dB	
6850.00 MHz	−0.90 dB	0.01 dB	0.90 dB	0.34 dB	
7050.00 MHz	−0.90 dB	0.04 dB	0.90 dB	0.34 dB	
7250.00 MHz	−0.90 dB	−0.01 dB	0.90 dB	0.34 dB	
7450.00 MHz	−0.90 dB	0.02 dB	0.90 dB	0.34 dB	
7650.00 MHz	−0.90 dB	0.05 dB	0.90 dB	0.34 dB	
7850.00 MHz	−0.90 dB	0.10 dB	0.90 dB	0.34 dB	
8050.00 MHz	−0.90 dB	0.09 dB	0.90 dB	0.34 dB	
8250.00 MHz	−0.90 dB	0.04 dB	0.90 dB	0.34 dB	
8350.00 MHz	−0.90 dB	0.06 dB	0.90 dB	0.34 dB	
8450.00 MHz	−1.00 dB	0.09 dB	1.00 dB	0.34 dB	
8650.00 MHz	−1.00 dB	0.11 dB	1.00 dB	0.34 dB	
8850.00 MHz	−1.00 dB	0.05 dB	1.00 dB	0.34 dB	
9050.00 MHz	−1.00 dB	0.10 dB	1.00 dB	0.34 dB	
9250.00 MHz	−1.00 dB	0.00 dB	1.00 dB	0.34 dB	
9450.00 MHz	−1.00 dB	0.04 dB	1.00 dB	0.34 dB	
9650.00 MHz	−1.00 dB	0.05 dB	1.00 dB	0.34 dB	
9850.00 MHz	−1.00 dB	0.09 dB	1.00 dB	0.34 dB	
10050.00 MHz	−1.00 dB	0.14 dB	1.00 dB	0.34 dB	
10250.00 MHz	−1.00 dB	0.07 dB	1.00 dB	0.34 dB	
10450.00 MHz	−1.00 dB	0.03 dB	1.00 dB	0.34 dB	
10650.00 MHz	−1.00 dB	0.08 dB	1.00 dB	0.34 dB	
10850.00 MHz	−1.00 dB	0.18 dB	1.00 dB	0.34 dB	
11050.00 MHz	−1.00 dB	0.14 dB	1.00 dB	0.34 dB	
11250.00 MHz	−1.00 dB	0.18 dB	1.00 dB	0.34 dB	
11450.00 MHz	−1.00 dB	0.09 dB	1.00 dB	0.34 dB	
11650.00 MHz	−1.00 dB	0.13 dB	1.00 dB	0.34 dB	
11850.00 MHz	−1.00 dB	0.27 dB	1.00 dB	0.34 dB	
12050.00 MHz	−1.00 dB	0.19 dB	1.00 dB	0.34 dB	
12250.00 MHz	−1.00 dB	0.03 dB	1.00 dB	0.34 dB	
12450.00 MHz	−1.00 dB	0.02 dB	1.00 dB	0.34 dB	
12650.00 MHz	−1.00 dB	0.11 dB	1.00 dB	0.34 dB	
12850.00 MHz	−1.00 dB	0.05 dB	1.00 dB	0.34 dB	
13050.00 MHz	−1.00 dB	0.20 dB	1.00 dB	0.34 dB	
13250.00 MHz	−1.00 dB	0.16 dB	1.00 dB	0.34 dB	
13450.00 MHz	−1.00 dB	−0.03 dB	1.00 dB	0.34 dB	
13550.00 MHz	−1.00 dB	0.07 dB	1.00 dB	0.34 dB	
13650.00 MHz	−1.30 dB	0.24 dB	1.30 dB	0.34 dB	
13850.00 MHz	−1.30 dB	0.16 dB	1.30 dB	0.34 dB	
14050.00 MHz	−1.30 dB	0.06 dB	1.30 dB	0.34 dB	
14250.00 MHz	−1.30 dB	0.02 dB	1.30 dB	0.34 dB	
14450.00 MHz	−1.30 dB	0.15 dB	1.30 dB	0.34 dB	
14650.00 MHz	−1.30 dB	0.10 dB	1.30 dB	0.34 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
14850.00 MHz	−1.30 dB	0.02 dB	1.30 dB	0.34 dB	
15050.00 MHz	−1.30 dB	−0.04 dB	1.30 dB	0.34 dB	
15250.00 MHz	−1.30 dB	0.10 dB	1.30 dB	0.34 dB	
15450.00 MHz	−1.30 dB	0.17 dB	1.30 dB	0.34 dB	
15650.00 MHz	−1.30 dB	0.12 dB	1.30 dB	0.34 dB	
15850.00 MHz	−1.30 dB	−0.05 dB	1.30 dB	0.34 dB	
16050.00 MHz	−1.30 dB	0.07 dB	1.30 dB	0.35 dB	
16250.00 MHz	−1.30 dB	−0.01 dB	1.30 dB	0.35 dB	
16450.00 MHz	−1.30 dB	0.23 dB	1.30 dB	0.35 dB	
16650.00 MHz	−1.30 dB	0.23 dB	1.30 dB	0.35 dB	
16850.00 MHz	−1.30 dB	0.08 dB	1.30 dB	0.35 dB	
16950.00 MHz	−1.30 dB	0.25 dB	1.30 dB	0.35 dB	
17150.00 MHz	−1.30 dB	0.37 dB	1.30 dB	0.35 dB	
17250.00 MHz	−1.30 dB	0.44 dB	1.30 dB	0.35 dB	
17450.00 MHz	−1.30 dB	0.43 dB	1.30 dB	0.35 dB	
17650.00 MHz	−1.30 dB	0.42 dB	1.30 dB	0.35 dB	
17850.00 MHz	−1.30 dB	0.37 dB	1.30 dB	0.35 dB	
18050.00 MHz	−1.30 dB	0.27 dB	1.30 dB	0.35 dB	
18250.00 MHz	−1.30 dB	0.18 dB	1.30 dB	0.35 dB	
18450.00 MHz	−1.30 dB	0.20 dB	1.30 dB	0.36 dB	
18650.00 MHz	−1.30 dB	0.26 dB	1.30 dB	0.36 dB	
18850.00 MHz	−1.30 dB	0.11 dB	1.30 dB	0.36 dB	
19050.00 MHz	−1.30 dB	0.21 dB	1.30 dB	0.36 dB	
19250.00 MHz	−1.30 dB	0.26 dB	1.30 dB	0.36 dB	
19450.00 MHz	−1.30 dB	0.24 dB	1.30 dB	0.36 dB	
19650.00 MHz	−1.30 dB	0.16 dB	1.30 dB	0.36 dB	
19850.00 MHz	−1.30 dB	0.16 dB	1.30 dB	0.36 dB	
20050.00 MHz	−1.30 dB	−0.08 dB	1.30 dB	0.36 dB	
20250.00 MHz	−1.30 dB	0.15 dB	1.30 dB	0.36 dB	
20450.00 MHz	−1.30 dB	0.19 dB	1.30 dB	0.36 dB	
20650.00 MHz	−1.30 dB	0.09 dB	1.30 dB	0.36 dB	
20850.00 MHz	−1.30 dB	0.03 dB	1.30 dB	0.36 dB	
21050.00 MHz	−1.30 dB	0.33 dB	1.30 dB	0.36 dB	
21250.00 MHz	−1.30 dB	0.35 dB	1.30 dB	0.36 dB	
21450.00 MHz	−1.30 dB	0.17 dB	1.30 dB	0.36 dB	
21650.00 MHz	−1.30 dB	0.20 dB	1.30 dB	0.36 dB	
21850.00 MHz	−1.30 dB	0.39 dB	1.30 dB	0.36 dB	
22050.00 MHz	−1.50 dB	0.25 dB	1.50 dB	0.36 dB	
22250.00 MHz	−1.50 dB	0.20 dB	1.50 dB	0.36 dB	
22450.00 MHz	−1.50 dB	0.32 dB	1.50 dB	0.36 dB	
22650.00 MHz	−1.50 dB	0.23 dB	1.50 dB	0.36 dB	
22850.00 MHz	−1.50 dB	0.21 dB	1.50 dB	0.36 dB	
23050.00 MHz	−1.50 dB	0.16 dB	1.50 dB	0.36 dB	
23250.00 MHz	−1.50 dB	0.10 dB	1.50 dB	0.36 dB	
23450.00 MHz	−1.50 dB	−0.03 dB	1.50 dB	0.36 dB	
23650.00 MHz	−1.50 dB	0.05 dB	1.50 dB	0.36 dB	
23850.00 MHz	−1.50 dB	0.09 dB	1.50 dB	0.36 dB	
24050.00 MHz	−1.50 dB	0.09 dB	1.50 dB	0.37 dB	
24250.00 MHz	−1.50 dB	0.08 dB	1.50 dB	0.37 dB	
24450.00 MHz	−1.50 dB	0.29 dB	1.50 dB	0.37 dB	
24650.00 MHz	−1.50 dB	0.18 dB	1.50 dB	0.37 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
24850.00 MHz	−1.50 dB	0.30 dB	1.50 dB	0.37 dB	
25050.00 MHz	−1.50 dB	0.21 dB	1.50 dB	0.37 dB	
25250.00 MHz	−1.50 dB	0.30 dB	1.50 dB	0.37 dB	
25450.00 MHz	−1.50 dB	0.14 dB	1.50 dB	0.37 dB	
25650.00 MHz	−1.50 dB	0.20 dB	1.50 dB	0.37 dB	
25850.00 MHz	−1.50 dB	0.30 dB	1.50 dB	0.37 dB	
26050.00 MHz	−1.50 dB	0.20 dB	1.50 dB	0.37 dB	
26250.00 MHz	−1.50 dB	−0.07 dB	1.50 dB	0.37 dB	
26450.00 MHz	−1.50 dB	0.09 dB	1.50 dB	0.37 dB	
26650.00 MHz	−1.70 dB	0.06 dB	1.70 dB	0.43 dB	
26850.00 MHz	−1.70 dB	0.20 dB	1.70 dB	0.43 dB	
27050.00 MHz	−1.70 dB	−0.05 dB	1.70 dB	0.43 dB	
27250.00 MHz	−1.70 dB	−0.26 dB	1.70 dB	0.43 dB	
27450.00 MHz	−1.70 dB	0.10 dB	1.70 dB	0.43 dB	
27650.00 MHz	−1.70 dB	0.15 dB	1.70 dB	0.43 dB	
27850.00 MHz	−1.70 dB	0.15 dB	1.70 dB	0.43 dB	
28050.00 MHz	−1.70 dB	−0.19 dB	1.70 dB	0.43 dB	
28250.00 MHz	−1.70 dB	0.18 dB	1.70 dB	0.43 dB	
28450.00 MHz	−1.70 dB	0.40 dB	1.70 dB	0.43 dB	
28650.00 MHz	−1.70 dB	0.19 dB	1.70 dB	0.43 dB	
28850.00 MHz	−1.70 dB	0.01 dB	1.70 dB	0.43 dB	
29050.00 MHz	−1.70 dB	0.13 dB	1.70 dB	0.43 dB	
29250.00 MHz	−1.70 dB	0.31 dB	1.70 dB	0.43 dB	
29450.00 MHz	−1.70 dB	0.17 dB	1.70 dB	0.43 dB	
29650.00 MHz	−1.70 dB	0.05 dB	1.70 dB	0.43 dB	
29850.00 MHz	−1.70 dB	0.01 dB	1.70 dB	0.43 dB	
30050.00 MHz	−1.70 dB	0.05 dB	1.70 dB	0.43 dB	
30250.00 MHz	−1.70 dB	0.10 dB	1.70 dB	0.43 dB	
30450.00 MHz	−1.70 dB	0.11 dB	1.70 dB	0.43 dB	
30650.00 MHz	−1.70 dB	−0.13 dB	1.70 dB	0.43 dB	
30850.00 MHz	−1.70 dB	0.06 dB	1.70 dB	0.43 dB	
31050.00 MHz	−1.70 dB	0.07 dB	1.70 dB	0.43 dB	
31250.00 MHz	−1.70 dB	−0.11 dB	1.70 dB	0.43 dB	
31450.00 MHz	−1.70 dB	−0.35 dB	1.70 dB	0.43 dB	
31650.00 MHz	−1.70 dB	0.01 dB	1.70 dB	0.43 dB	
31850.00 MHz	−1.70 dB	−0.07 dB	1.70 dB	0.43 dB	
32050.00 MHz	−1.70 dB	0.04 dB	1.70 dB	0.43 dB	
32250.00 MHz	−1.70 dB	−0.29 dB	1.70 dB	0.43 dB	
32450.00 MHz	−1.70 dB	−0.01 dB	1.70 dB	0.43 dB	
32650.00 MHz	−1.70 dB	−0.20 dB	1.70 dB	0.43 dB	
32850.00 MHz	−1.70 dB	0.06 dB	1.70 dB	0.43 dB	
33050.00 MHz	−1.70 dB	0.02 dB	1.70 dB	0.43 dB	
33250.00 MHz	−1.70 dB	0.08 dB	1.70 dB	0.43 dB	
33450.00 MHz	−1.70 dB	0.05 dB	1.70 dB	0.43 dB	
33650.00 MHz	−1.70 dB	0.04 dB	1.70 dB	0.43 dB	
33850.00 MHz	−1.70 dB	−0.02 dB	1.70 dB	0.44 dB	
34050.00 MHz	−1.70 dB	0.11 dB	1.70 dB	0.44 dB	
34250.00 MHz	−1.70 dB	−0.08 dB	1.70 dB	0.44 dB	
34450.00 MHz	−1.70 dB	−0.18 dB	1.70 dB	0.44 dB	
34650.00 MHz	−3.10 dB	0.03 dB	3.10 dB	0.44 dB	
34850.00 MHz	−3.10 dB	0.00 dB	3.10 dB	0.44 dB	

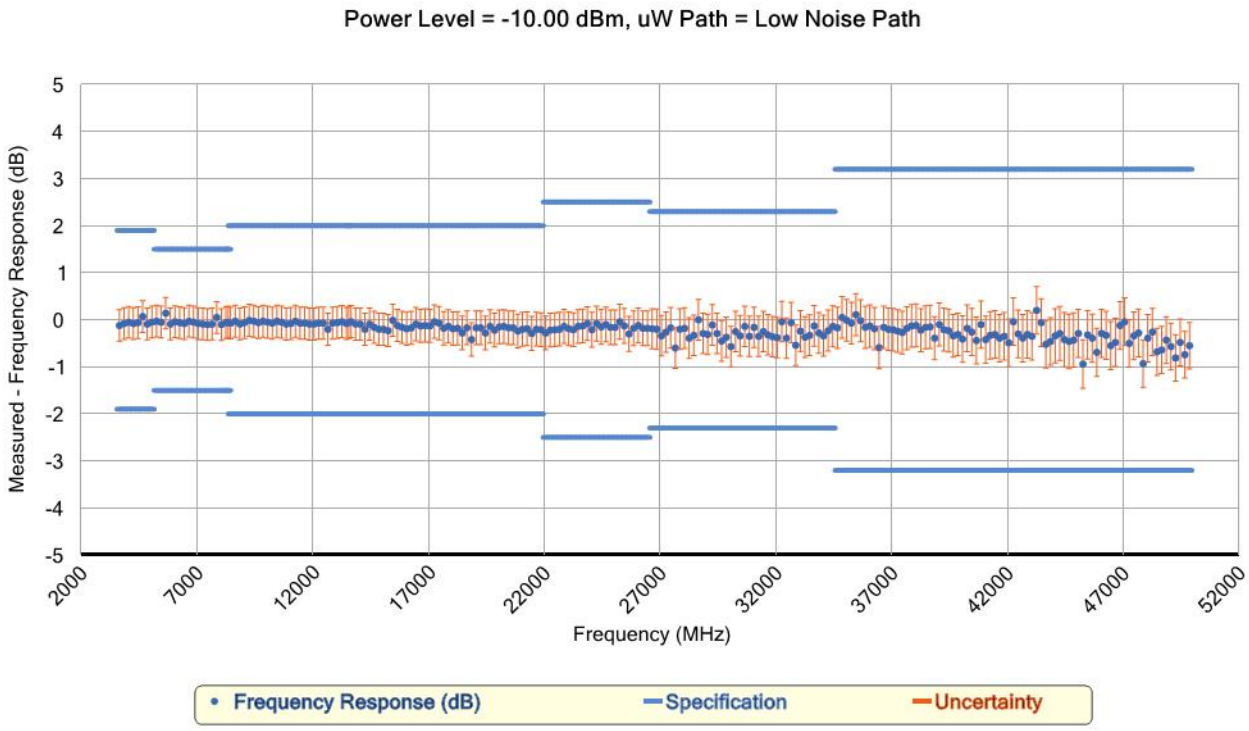
Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
35050.00 MHz	−3.10 dB	−0.15 dB	3.10 dB	0.44 dB	
35250.00 MHz	−3.10 dB	−0.33 dB	3.10 dB	0.44 dB	
35450.00 MHz	−3.10 dB	−0.04 dB	3.10 dB	0.44 dB	
35650.00 MHz	−3.10 dB	−0.14 dB	3.10 dB	0.45 dB	
35850.00 MHz	−3.10 dB	−0.44 dB	3.10 dB	0.45 dB	
36050.00 MHz	−3.10 dB	−0.36 dB	3.10 dB	0.45 dB	
36250.00 MHz	−3.10 dB	−0.30 dB	3.10 dB	0.45 dB	
36450.00 MHz	−3.10 dB	−0.48 dB	3.10 dB	0.45 dB	
36650.00 MHz	−3.10 dB	−0.39 dB	3.10 dB	0.45 dB	
36850.00 MHz	−3.10 dB	−0.25 dB	3.10 dB	0.45 dB	
37050.00 MHz	−3.10 dB	−0.21 dB	3.10 dB	0.45 dB	
37250.00 MHz	−3.10 dB	−0.66 dB	3.10 dB	0.45 dB	
37450.00 MHz	−3.10 dB	−0.11 dB	3.10 dB	0.45 dB	
37650.00 MHz	−3.10 dB	−0.21 dB	3.10 dB	0.45 dB	
37850.00 MHz	−3.10 dB	−0.57 dB	3.10 dB	0.45 dB	
38050.00 MHz	−3.10 dB	−0.47 dB	3.10 dB	0.45 dB	
38250.00 MHz	−3.10 dB	−0.38 dB	3.10 dB	0.46 dB	
38450.00 MHz	−3.10 dB	−0.63 dB	3.10 dB	0.46 dB	
38650.00 MHz	−3.10 dB	−0.83 dB	3.10 dB	0.46 dB	
38850.00 MHz	−3.10 dB	−0.81 dB	3.10 dB	0.46 dB	
39050.00 MHz	−3.10 dB	−0.46 dB	3.10 dB	0.46 dB	
39250.00 MHz	−3.10 dB	−0.68 dB	3.10 dB	0.46 dB	
39450.00 MHz	−3.10 dB	−0.62 dB	3.10 dB	0.46 dB	
39650.00 MHz	−3.10 dB	−0.35 dB	3.10 dB	0.45 dB	
39850.00 MHz	−3.10 dB	−0.39 dB	3.10 dB	0.45 dB	
40050.00 MHz	−3.10 dB	−0.63 dB	3.10 dB	0.49 dB	
40250.00 MHz	−3.10 dB	−0.44 dB	3.10 dB	0.50 dB	
40450.00 MHz	−3.10 dB	−0.27 dB	3.10 dB	0.50 dB	
40650.00 MHz	−3.10 dB	−0.24 dB	3.10 dB	0.50 dB	
40850.00 MHz	−3.10 dB	−0.46 dB	3.10 dB	0.50 dB	
41050.00 MHz	−3.10 dB	−0.64 dB	3.10 dB	0.50 dB	
41250.00 MHz	−3.10 dB	−0.13 dB	3.10 dB	0.50 dB	
41450.00 MHz	−3.10 dB	−0.16 dB	3.10 dB	0.50 dB	
41650.00 MHz	−3.10 dB	−0.37 dB	3.10 dB	0.50 dB	
41850.00 MHz	−3.10 dB	−0.32 dB	3.10 dB	0.50 dB	
42050.00 MHz	−3.10 dB	−0.66 dB	3.10 dB	0.50 dB	
42250.00 MHz	−3.10 dB	−1.08 dB	3.10 dB	0.50 dB	
42450.00 MHz	−3.10 dB	−0.50 dB	3.10 dB	0.51 dB	
42650.00 MHz	−3.10 dB	−0.55 dB	3.10 dB	0.51 dB	
42850.00 MHz	−3.10 dB	−0.50 dB	3.10 dB	0.51 dB	
43050.00 MHz	−3.10 dB	−0.55 dB	3.10 dB	0.51 dB	
43250.00 MHz	−3.10 dB	−0.26 dB	3.10 dB	0.51 dB	
43450.00 MHz	−3.10 dB	−0.18 dB	3.10 dB	0.51 dB	
43650.00 MHz	−3.10 dB	−0.49 dB	3.10 dB	0.51 dB	
43850.00 MHz	−3.10 dB	−0.25 dB	3.10 dB	0.51 dB	
44050.00 MHz	−3.10 dB	−0.08 dB	3.10 dB	0.57 dB	
44250.00 MHz	−3.10 dB	−0.02 dB	3.10 dB	0.57 dB	
44450.00 MHz	−3.10 dB	0.00 dB	3.10 dB	0.58 dB	
44650.00 MHz	−3.10 dB	−0.24 dB	3.10 dB	0.58 dB	
44850.00 MHz	−3.10 dB	−0.19 dB	3.10 dB	0.58 dB	
45050.00 MHz	−3.10 dB	0.09 dB	3.10 dB	0.51 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
45250.00 MHz	−3.10 dB	−0.34 dB	3.10 dB	0.51 dB	
45450.00 MHz	−3.10 dB	−0.95 dB	3.10 dB	0.51 dB	
45650.00 MHz	−3.10 dB	−0.52 dB	3.10 dB	0.51 dB	
45850.00 MHz	−3.10 dB	−0.14 dB	3.10 dB	0.51 dB	
46050.00 MHz	−3.10 dB	−0.59 dB	3.10 dB	0.51 dB	
46250.00 MHz	−3.10 dB	−0.85 dB	3.10 dB	0.51 dB	
46450.00 MHz	−3.10 dB	−0.73 dB	3.10 dB	0.51 dB	
46650.00 MHz	−3.10 dB	−0.36 dB	3.10 dB	0.51 dB	
46850.00 MHz	−3.10 dB	−0.70 dB	3.10 dB	0.51 dB	
47050.00 MHz	−3.10 dB	−0.91 dB	3.10 dB	0.51 dB	
47250.00 MHz	−3.10 dB	−0.87 dB	3.10 dB	0.51 dB	
47450.00 MHz	−3.10 dB	−0.15 dB	3.10 dB	0.51 dB	
47650.00 MHz	−3.10 dB	−0.90 dB	3.10 dB	0.51 dB	
47850.00 MHz	−3.10 dB	−0.97 dB	3.10 dB	0.50 dB	
48050.00 MHz	−3.10 dB	−0.80 dB	3.10 dB	0.50 dB	
48250.00 MHz	−3.10 dB	−0.41 dB	3.10 dB	0.50 dB	
48450.00 MHz	−3.10 dB	−0.93 dB	3.10 dB	0.50 dB	
48650.00 MHz	−3.10 dB	−0.80 dB	3.10 dB	0.50 dB	
48850.00 MHz	−3.10 dB	−0.41 dB	3.10 dB	0.50 dB	
49050.00 MHz	−3.10 dB	−0.31 dB	3.10 dB	0.50 dB	
49250.00 MHz	−3.10 dB	−1.54 dB	3.10 dB	0.50 dB	
49450.00 MHz	−3.10 dB	−0.89 dB	3.10 dB	0.49 dB	
49650.00 MHz	−3.10 dB	−0.09 dB	3.10 dB	0.49 dB	
49850.00 MHz	−3.10 dB	−0.69 dB	3.10 dB	0.49 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)



Power Level = -10.00 dBm, uW Path = Low Noise Path

Frequency	Minimum	Measured	Maximum	Uncert.	Status
3650.00 MHz	−1.90 dB	−0.12 dB	1.90 dB	0.34 dB	
3850.00 MHz	−1.90 dB	−0.08 dB	1.90 dB	0.34 dB	
4050.00 MHz	−1.90 dB	−0.05 dB	1.90 dB	0.34 dB	
4250.00 MHz	−1.90 dB	−0.08 dB	1.90 dB	0.34 dB	
4450.00 MHz	−1.90 dB	−0.06 dB	1.90 dB	0.34 dB	
4650.00 MHz	−1.90 dB	0.07 dB	1.90 dB	0.34 dB	
4850.00 MHz	−1.90 dB	−0.09 dB	1.90 dB	0.34 dB	
5050.00 MHz	−1.90 dB	−0.05 dB	1.90 dB	0.34 dB	
5250.00 MHz	−1.50 dB	−0.03 dB	1.50 dB	0.34 dB	
5450.00 MHz	−1.50 dB	−0.05 dB	1.50 dB	0.34 dB	
5650.00 MHz	−1.50 dB	0.14 dB	1.50 dB	0.34 dB	
5850.00 MHz	−1.50 dB	−0.09 dB	1.50 dB	0.34 dB	
6050.00 MHz	−1.50 dB	−0.04 dB	1.50 dB	0.34 dB	
6250.00 MHz	−1.50 dB	−0.06 dB	1.50 dB	0.34 dB	
6450.00 MHz	−1.50 dB	−0.08 dB	1.50 dB	0.34 dB	
6650.00 MHz	−1.50 dB	−0.03 dB	1.50 dB	0.34 dB	
6850.00 MHz	−1.50 dB	−0.05 dB	1.50 dB	0.34 dB	
7050.00 MHz	−1.50 dB	−0.08 dB	1.50 dB	0.34 dB	
7250.00 MHz	−1.50 dB	−0.09 dB	1.50 dB	0.34 dB	
7450.00 MHz	−1.50 dB	−0.10 dB	1.50 dB	0.34 dB	
7650.00 MHz	−1.50 dB	−0.09 dB	1.50 dB	0.34 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
7850.00 MHz	−1.50 dB	0.05 dB	1.50 dB	0.34 dB	
8050.00 MHz	−1.50 dB	−0.10 dB	1.50 dB	0.34 dB	
8250.00 MHz	−1.50 dB	−0.06 dB	1.50 dB	0.34 dB	
8350.00 MHz	−1.50 dB	−0.05 dB	1.50 dB	0.34 dB	
8450.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
8650.00 MHz	−2.00 dB	−0.03 dB	2.00 dB	0.34 dB	
8850.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.34 dB	
9050.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.34 dB	
9250.00 MHz	−2.00 dB	−0.01 dB	2.00 dB	0.34 dB	
9450.00 MHz	−2.00 dB	−0.03 dB	2.00 dB	0.34 dB	
9650.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.34 dB	
9850.00 MHz	−2.00 dB	−0.03 dB	2.00 dB	0.34 dB	
10050.00 MHz	−2.00 dB	−0.05 dB	2.00 dB	0.34 dB	
10250.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
10450.00 MHz	−2.00 dB	−0.03 dB	2.00 dB	0.34 dB	
10650.00 MHz	−2.00 dB	−0.05 dB	2.00 dB	0.34 dB	
10850.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.34 dB	
11050.00 MHz	−2.00 dB	−0.08 dB	2.00 dB	0.34 dB	
11250.00 MHz	−2.00 dB	−0.03 dB	2.00 dB	0.34 dB	
11450.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
11650.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
11850.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.34 dB	
12050.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.34 dB	
12250.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
12450.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
12650.00 MHz	−2.00 dB	−0.20 dB	2.00 dB	0.34 dB	
12850.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
13050.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.34 dB	
13250.00 MHz	−2.00 dB	−0.04 dB	2.00 dB	0.34 dB	
13450.00 MHz	−2.00 dB	−0.08 dB	2.00 dB	0.34 dB	
13550.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.34 dB	
13650.00 MHz	−2.00 dB	−0.04 dB	2.00 dB	0.34 dB	
13850.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.34 dB	
14050.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.34 dB	
14250.00 MHz	−2.00 dB	−0.20 dB	2.00 dB	0.34 dB	
14450.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.34 dB	
14650.00 MHz	−2.00 dB	−0.16 dB	2.00 dB	0.34 dB	
14850.00 MHz	−2.00 dB	−0.20 dB	2.00 dB	0.34 dB	
15050.00 MHz	−2.00 dB	−0.20 dB	2.00 dB	0.34 dB	
15250.00 MHz	−2.00 dB	−0.23 dB	2.00 dB	0.34 dB	
15450.00 MHz	−2.00 dB	−0.01 dB	2.00 dB	0.34 dB	
15650.00 MHz	−2.00 dB	−0.12 dB	2.00 dB	0.34 dB	
15850.00 MHz	−2.00 dB	−0.16 dB	2.00 dB	0.34 dB	
16050.00 MHz	−2.00 dB	−0.19 dB	2.00 dB	0.35 dB	
16250.00 MHz	−2.00 dB	−0.17 dB	2.00 dB	0.35 dB	
16450.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.35 dB	
16650.00 MHz	−2.00 dB	−0.13 dB	2.00 dB	0.35 dB	
16850.00 MHz	−2.00 dB	−0.12 dB	2.00 dB	0.35 dB	
17050.00 MHz	−2.00 dB	−0.13 dB	2.00 dB	0.35 dB	
17250.00 MHz	−2.00 dB	−0.04 dB	2.00 dB	0.35 dB	
17450.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.35 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
17650.00 MHz	−2.00 dB	−0.18 dB	2.00 dB	0.35 dB	
17850.00 MHz	−2.00 dB	−0.14 dB	2.00 dB	0.35 dB	
18050.00 MHz	−2.00 dB	−0.19 dB	2.00 dB	0.35 dB	
18250.00 MHz	−2.00 dB	−0.18 dB	2.00 dB	0.35 dB	
18450.00 MHz	−2.00 dB	−0.28 dB	2.00 dB	0.36 dB	
18650.00 MHz	−2.00 dB	−0.17 dB	2.00 dB	0.36 dB	
18850.00 MHz	−2.00 dB	−0.42 dB	2.00 dB	0.36 dB	
19050.00 MHz	−2.00 dB	−0.17 dB	2.00 dB	0.36 dB	
19250.00 MHz	−2.00 dB	−0.17 dB	2.00 dB	0.36 dB	
19450.00 MHz	−2.00 dB	−0.28 dB	2.00 dB	0.36 dB	
19650.00 MHz	−2.00 dB	−0.14 dB	2.00 dB	0.36 dB	
19850.00 MHz	−2.00 dB	−0.22 dB	2.00 dB	0.36 dB	
20050.00 MHz	−2.00 dB	−0.15 dB	2.00 dB	0.36 dB	
20250.00 MHz	−2.00 dB	−0.14 dB	2.00 dB	0.36 dB	
20450.00 MHz	−2.00 dB	−0.17 dB	2.00 dB	0.36 dB	
20650.00 MHz	−2.00 dB	−0.17 dB	2.00 dB	0.36 dB	
20850.00 MHz	−2.00 dB	−0.24 dB	2.00 dB	0.36 dB	
21050.00 MHz	−2.00 dB	−0.20 dB	2.00 dB	0.36 dB	
21250.00 MHz	−2.00 dB	−0.19 dB	2.00 dB	0.36 dB	
21450.00 MHz	−2.00 dB	−0.29 dB	2.00 dB	0.36 dB	
21650.00 MHz	−2.00 dB	−0.20 dB	2.00 dB	0.36 dB	
21850.00 MHz	−2.00 dB	−0.21 dB	2.00 dB	0.36 dB	
22050.00 MHz	−2.50 dB	−0.28 dB	2.50 dB	0.36 dB	
22250.00 MHz	−2.50 dB	−0.22 dB	2.50 dB	0.36 dB	
22450.00 MHz	−2.50 dB	−0.21 dB	2.50 dB	0.36 dB	
22650.00 MHz	−2.50 dB	−0.20 dB	2.50 dB	0.36 dB	
22850.00 MHz	−2.50 dB	−0.14 dB	2.50 dB	0.36 dB	
23050.00 MHz	−2.50 dB	−0.19 dB	2.50 dB	0.36 dB	
23250.00 MHz	−2.50 dB	−0.21 dB	2.50 dB	0.36 dB	
23450.00 MHz	−2.50 dB	−0.14 dB	2.50 dB	0.36 dB	
23650.00 MHz	−2.50 dB	−0.13 dB	2.50 dB	0.36 dB	
23850.00 MHz	−2.50 dB	−0.08 dB	2.50 dB	0.36 dB	
24050.00 MHz	−2.50 dB	−0.21 dB	2.50 dB	0.37 dB	
24250.00 MHz	−2.50 dB	−0.08 dB	2.50 dB	0.37 dB	
24450.00 MHz	−2.50 dB	−0.15 dB	2.50 dB	0.37 dB	
24650.00 MHz	−2.50 dB	−0.10 dB	2.50 dB	0.37 dB	
24850.00 MHz	−2.50 dB	−0.16 dB	2.50 dB	0.37 dB	
25050.00 MHz	−2.50 dB	−0.16 dB	2.50 dB	0.37 dB	
25250.00 MHz	−2.50 dB	−0.04 dB	2.50 dB	0.37 dB	
25450.00 MHz	−2.50 dB	−0.13 dB	2.50 dB	0.37 dB	
25650.00 MHz	−2.50 dB	−0.30 dB	2.50 dB	0.37 dB	
25850.00 MHz	−2.50 dB	−0.18 dB	2.50 dB	0.37 dB	
26050.00 MHz	−2.50 dB	−0.12 dB	2.50 dB	0.37 dB	
26250.00 MHz	−2.50 dB	−0.18 dB	2.50 dB	0.37 dB	
26450.00 MHz	−2.50 dB	−0.18 dB	2.50 dB	0.37 dB	
26650.00 MHz	−2.30 dB	−0.19 dB	2.30 dB	0.43 dB	
26850.00 MHz	−2.30 dB	−0.20 dB	2.30 dB	0.43 dB	
27050.00 MHz	−2.30 dB	−0.34 dB	2.30 dB	0.43 dB	
27250.00 MHz	−2.30 dB	−0.26 dB	2.30 dB	0.43 dB	
27450.00 MHz	−2.30 dB	−0.17 dB	2.30 dB	0.43 dB	
27650.00 MHz	−2.30 dB	−0.60 dB	2.30 dB	0.43 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
27850.00 MHz	−2.30 dB	−0.20 dB	2.30 dB	0.43 dB	
28050.00 MHz	−2.30 dB	−0.18 dB	2.30 dB	0.43 dB	
28250.00 MHz	−2.30 dB	−0.39 dB	2.30 dB	0.43 dB	
28450.00 MHz	−2.30 dB	−0.33 dB	2.30 dB	0.43 dB	
28650.00 MHz	−2.30 dB	0.00 dB	2.30 dB	0.43 dB	
28850.00 MHz	−2.30 dB	−0.29 dB	2.30 dB	0.43 dB	
29050.00 MHz	−2.30 dB	−0.31 dB	2.30 dB	0.43 dB	
29250.00 MHz	−2.30 dB	−0.11 dB	2.30 dB	0.43 dB	
29450.00 MHz	−2.30 dB	−0.29 dB	2.30 dB	0.43 dB	
29650.00 MHz	−2.30 dB	−0.45 dB	2.30 dB	0.43 dB	
29850.00 MHz	−2.30 dB	−0.37 dB	2.30 dB	0.43 dB	
30050.00 MHz	−2.30 dB	−0.57 dB	2.30 dB	0.43 dB	
30250.00 MHz	−2.30 dB	−0.25 dB	2.30 dB	0.43 dB	
30450.00 MHz	−2.30 dB	−0.34 dB	2.30 dB	0.43 dB	
30650.00 MHz	−2.30 dB	−0.14 dB	2.30 dB	0.43 dB	
30850.00 MHz	−2.30 dB	−0.35 dB	2.30 dB	0.43 dB	
31050.00 MHz	−2.30 dB	−0.16 dB	2.30 dB	0.43 dB	
31250.00 MHz	−2.30 dB	−0.35 dB	2.30 dB	0.43 dB	
31450.00 MHz	−2.30 dB	−0.25 dB	2.30 dB	0.43 dB	
31650.00 MHz	−2.30 dB	−0.32 dB	2.30 dB	0.43 dB	
31850.00 MHz	−2.30 dB	−0.36 dB	2.30 dB	0.43 dB	
32050.00 MHz	−2.30 dB	−0.38 dB	2.30 dB	0.43 dB	
32250.00 MHz	−2.30 dB	−0.04 dB	2.30 dB	0.43 dB	
32450.00 MHz	−2.30 dB	−0.39 dB	2.30 dB	0.43 dB	
32650.00 MHz	−2.30 dB	−0.06 dB	2.30 dB	0.43 dB	
32850.00 MHz	−2.30 dB	−0.54 dB	2.30 dB	0.43 dB	
33050.00 MHz	−2.30 dB	−0.24 dB	2.30 dB	0.43 dB	
33250.00 MHz	−2.30 dB	−0.37 dB	2.30 dB	0.43 dB	
33450.00 MHz	−2.30 dB	−0.33 dB	2.30 dB	0.43 dB	
33650.00 MHz	−2.30 dB	−0.13 dB	2.30 dB	0.43 dB	
33850.00 MHz	−2.30 dB	−0.28 dB	2.30 dB	0.44 dB	
34050.00 MHz	−2.30 dB	−0.34 dB	2.30 dB	0.44 dB	
34250.00 MHz	−2.30 dB	−0.23 dB	2.30 dB	0.44 dB	
34450.00 MHz	−2.30 dB	−0.14 dB	2.30 dB	0.44 dB	
34650.00 MHz	−3.20 dB	−0.17 dB	3.20 dB	0.44 dB	
34850.00 MHz	−3.20 dB	0.05 dB	3.20 dB	0.44 dB	
35050.00 MHz	−3.20 dB	−0.01 dB	3.20 dB	0.44 dB	
35250.00 MHz	−3.20 dB	−0.07 dB	3.20 dB	0.44 dB	
35450.00 MHz	−3.20 dB	0.11 dB	3.20 dB	0.44 dB	
35650.00 MHz	−3.20 dB	−0.02 dB	3.20 dB	0.45 dB	
35850.00 MHz	−3.20 dB	−0.16 dB	3.20 dB	0.45 dB	
36050.00 MHz	−3.20 dB	−0.13 dB	3.20 dB	0.45 dB	
36250.00 MHz	−3.20 dB	−0.19 dB	3.20 dB	0.45 dB	
36450.00 MHz	−3.20 dB	−0.59 dB	3.20 dB	0.45 dB	
36650.00 MHz	−3.20 dB	−0.16 dB	3.20 dB	0.45 dB	
36850.00 MHz	−3.20 dB	−0.20 dB	3.20 dB	0.45 dB	
37050.00 MHz	−3.20 dB	−0.21 dB	3.20 dB	0.45 dB	
37250.00 MHz	−3.20 dB	−0.24 dB	3.20 dB	0.45 dB	
37450.00 MHz	−3.20 dB	−0.27 dB	3.20 dB	0.45 dB	
37650.00 MHz	−3.20 dB	−0.18 dB	3.20 dB	0.45 dB	
37850.00 MHz	−3.20 dB	−0.13 dB	3.20 dB	0.45 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

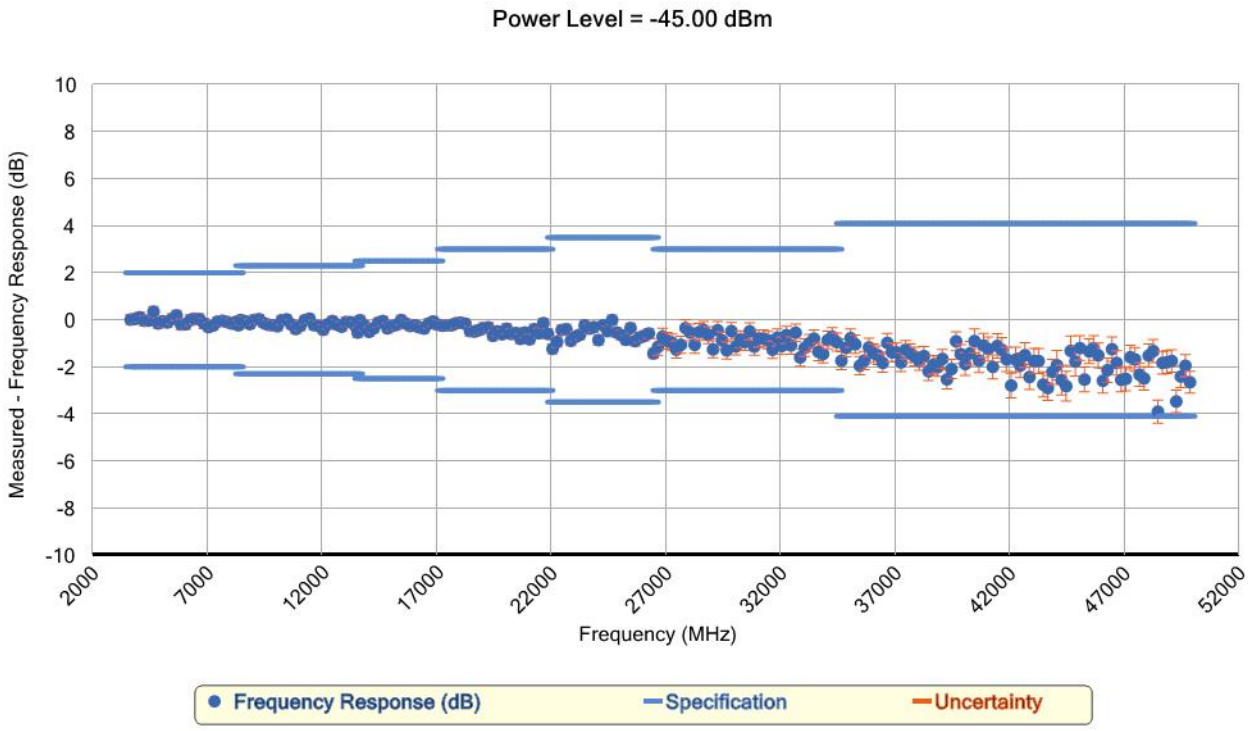
Frequency	Minimum	Measured	Maximum	Uncert.	Status
38050.00 MHz	−3.20 dB	−0.12 dB	3.20 dB	0.45 dB	
38250.00 MHz	−3.20 dB	−0.22 dB	3.20 dB	0.46 dB	
38450.00 MHz	−3.20 dB	−0.16 dB	3.20 dB	0.46 dB	
38650.00 MHz	−3.20 dB	−0.15 dB	3.20 dB	0.46 dB	
38850.00 MHz	−3.20 dB	−0.39 dB	3.20 dB	0.46 dB	
39050.00 MHz	−3.20 dB	−0.10 dB	3.20 dB	0.46 dB	
39250.00 MHz	−3.20 dB	−0.21 dB	3.20 dB	0.46 dB	
39450.00 MHz	−3.20 dB	−0.23 dB	3.20 dB	0.46 dB	
39650.00 MHz	−3.20 dB	−0.34 dB	3.20 dB	0.45 dB	
39850.00 MHz	−3.20 dB	−0.31 dB	3.20 dB	0.45 dB	
40050.00 MHz	−3.20 dB	−0.41 dB	3.20 dB	0.49 dB	
40250.00 MHz	−3.20 dB	−0.18 dB	3.20 dB	0.50 dB	
40450.00 MHz	−3.20 dB	−0.26 dB	3.20 dB	0.50 dB	
40650.00 MHz	−3.20 dB	−0.44 dB	3.20 dB	0.50 dB	
40850.00 MHz	−3.20 dB	−0.10 dB	3.20 dB	0.50 dB	
41050.00 MHz	−3.20 dB	−0.42 dB	3.20 dB	0.50 dB	
41250.00 MHz	−3.20 dB	−0.33 dB	3.20 dB	0.50 dB	
41450.00 MHz	−3.20 dB	−0.31 dB	3.20 dB	0.50 dB	
41650.00 MHz	−3.20 dB	−0.39 dB	3.20 dB	0.50 dB	
41850.00 MHz	−3.20 dB	−0.35 dB	3.20 dB	0.50 dB	
42050.00 MHz	−3.20 dB	−0.49 dB	3.20 dB	0.50 dB	
42250.00 MHz	−3.20 dB	−0.04 dB	3.20 dB	0.50 dB	
42450.00 MHz	−3.20 dB	−0.30 dB	3.20 dB	0.51 dB	
42650.00 MHz	−3.20 dB	−0.39 dB	3.20 dB	0.51 dB	
42850.00 MHz	−3.20 dB	−0.31 dB	3.20 dB	0.51 dB	
43050.00 MHz	−3.20 dB	−0.35 dB	3.20 dB	0.51 dB	
43250.00 MHz	−3.20 dB	0.20 dB	3.20 dB	0.51 dB	
43450.00 MHz	−3.20 dB	−0.06 dB	3.20 dB	0.51 dB	
43650.00 MHz	−3.20 dB	−0.52 dB	3.20 dB	0.51 dB	
43850.00 MHz	−3.20 dB	−0.46 dB	3.20 dB	0.51 dB	
44050.00 MHz	−3.20 dB	−0.34 dB	3.20 dB	0.57 dB	
44250.00 MHz	−3.20 dB	−0.29 dB	3.20 dB	0.57 dB	
44450.00 MHz	−3.20 dB	−0.42 dB	3.20 dB	0.58 dB	
44650.00 MHz	−3.20 dB	−0.46 dB	3.20 dB	0.58 dB	
44850.00 MHz	−3.20 dB	−0.43 dB	3.20 dB	0.58 dB	
45050.00 MHz	−3.20 dB	−0.29 dB	3.20 dB	0.51 dB	
45250.00 MHz	−3.20 dB	−0.94 dB	3.20 dB	0.51 dB	
45450.00 MHz	−3.20 dB	−0.32 dB	3.20 dB	0.51 dB	
45650.00 MHz	−3.20 dB	−0.39 dB	3.20 dB	0.51 dB	
45850.00 MHz	−3.20 dB	−0.69 dB	3.20 dB	0.51 dB	
46050.00 MHz	−3.20 dB	−0.29 dB	3.20 dB	0.51 dB	
46250.00 MHz	−3.20 dB	−0.33 dB	3.20 dB	0.51 dB	
46450.00 MHz	−3.20 dB	−0.55 dB	3.20 dB	0.51 dB	
46650.00 MHz	−3.20 dB	−0.48 dB	3.20 dB	0.51 dB	
46850.00 MHz	−3.20 dB	−0.12 dB	3.20 dB	0.51 dB	
47050.00 MHz	−3.20 dB	−0.04 dB	3.20 dB	0.51 dB	
47250.00 MHz	−3.20 dB	−0.50 dB	3.20 dB	0.51 dB	
47450.00 MHz	−3.20 dB	−0.34 dB	3.20 dB	0.51 dB	
47650.00 MHz	−3.20 dB	−0.28 dB	3.20 dB	0.51 dB	
47850.00 MHz	−3.20 dB	−0.93 dB	3.20 dB	0.50 dB	
48050.00 MHz	−3.20 dB	−0.39 dB	3.20 dB	0.50 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
48250.00 MHz	−3.20 dB	−0.26 dB	3.20 dB	0.50 dB	
48450.00 MHz	−3.20 dB	−0.68 dB	3.20 dB	0.50 dB	
48650.00 MHz	−3.20 dB	−0.64 dB	3.20 dB	0.50 dB	
48850.00 MHz	−3.20 dB	−0.43 dB	3.20 dB	0.50 dB	
49050.00 MHz	−3.20 dB	−0.57 dB	3.20 dB	0.50 dB	
49250.00 MHz	−3.20 dB	−0.81 dB	3.20 dB	0.50 dB	
49450.00 MHz	−3.20 dB	−0.48 dB	3.20 dB	0.49 dB	
49650.00 MHz	−3.20 dB	−0.74 dB	3.20 dB	0.49 dB	
49850.00 MHz	−3.20 dB	−0.55 dB	3.20 dB	0.49 dB	

Freq Resp Above 3.6 GHz Preamp On

Passed‡



Power Level = -45.00 dBm

Frequency	Minimum	Measured	Maximum	Uncert.	Status
3650.00 MHz	−2.00 dB	0.01 dB	2.00 dB	0.21 dB	
3850.00 MHz	−2.00 dB	0.04 dB	2.00 dB	0.21 dB	
4050.00 MHz	−2.00 dB	0.11 dB	2.00 dB	0.21 dB	
4250.00 MHz	−2.00 dB	−0.04 dB	2.00 dB	0.21 dB	
4450.00 MHz	−2.00 dB	−0.03 dB	2.00 dB	0.21 dB	
4650.00 MHz	−2.00 dB	0.35 dB	2.00 dB	0.21 dB	
4850.00 MHz	−2.00 dB	−0.15 dB	2.00 dB	0.21 dB	

Freq Resp Above 3.6 GHz Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
5050.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.21 dB	
5250.00 MHz	−2.00 dB	−0.11 dB	2.00 dB	0.21 dB	
5450.00 MHz	−2.00 dB	0.04 dB	2.00 dB	0.21 dB	
5650.00 MHz	−2.00 dB	0.19 dB	2.00 dB	0.21 dB	
5850.00 MHz	−2.00 dB	−0.20 dB	2.00 dB	0.22 dB	
6050.00 MHz	−2.00 dB	−0.19 dB	2.00 dB	0.22 dB	
6250.00 MHz	−2.00 dB	−0.01 dB	2.00 dB	0.22 dB	
6450.00 MHz	−2.00 dB	0.05 dB	2.00 dB	0.22 dB	
6650.00 MHz	−2.00 dB	0.03 dB	2.00 dB	0.22 dB	
6850.00 MHz	−2.00 dB	−0.16 dB	2.00 dB	0.22 dB	
7050.00 MHz	−2.00 dB	−0.31 dB	2.00 dB	0.19 dB	
7250.00 MHz	−2.00 dB	−0.24 dB	2.00 dB	0.19 dB	
7450.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.19 dB	
7650.00 MHz	−2.00 dB	−0.04 dB	2.00 dB	0.19 dB	
7850.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.19 dB	
8050.00 MHz	−2.00 dB	−0.15 dB	2.00 dB	0.19 dB	
8250.00 MHz	−2.00 dB	−0.08 dB	2.00 dB	0.19 dB	
8350.00 MHz	−2.00 dB	−0.23 dB	2.00 dB	0.19 dB	
8450.00 MHz	−2.30 dB	−0.01 dB	2.30 dB	0.19 dB	
8650.00 MHz	−2.30 dB	−0.06 dB	2.30 dB	0.19 dB	
8850.00 MHz	−2.30 dB	−0.18 dB	2.30 dB	0.19 dB	
9050.00 MHz	−2.30 dB	0.00 dB	2.30 dB	0.19 dB	
9250.00 MHz	−2.30 dB	0.03 dB	2.30 dB	0.19 dB	
9450.00 MHz	−2.30 dB	−0.13 dB	2.30 dB	0.19 dB	
9650.00 MHz	−2.30 dB	−0.21 dB	2.30 dB	0.19 dB	
9850.00 MHz	−2.30 dB	−0.23 dB	2.30 dB	0.19 dB	
10050.00 MHz	−2.30 dB	−0.27 dB	2.30 dB	0.19 dB	
10250.00 MHz	−2.30 dB	−0.01 dB	2.30 dB	0.19 dB	
10450.00 MHz	−2.30 dB	0.02 dB	2.30 dB	0.19 dB	
10650.00 MHz	−2.30 dB	−0.19 dB	2.30 dB	0.19 dB	
10850.00 MHz	−2.30 dB	−0.39 dB	2.30 dB	0.19 dB	
11050.00 MHz	−2.30 dB	−0.26 dB	2.30 dB	0.19 dB	
11250.00 MHz	−2.30 dB	−0.01 dB	2.30 dB	0.20 dB	
11450.00 MHz	−2.30 dB	0.05 dB	2.30 dB	0.20 dB	
11650.00 MHz	−2.30 dB	−0.23 dB	2.30 dB	0.20 dB	
11850.00 MHz	−2.30 dB	−0.26 dB	2.30 dB	0.20 dB	
12050.00 MHz	−2.30 dB	−0.42 dB	2.30 dB	0.20 dB	
12250.00 MHz	−2.30 dB	−0.19 dB	2.30 dB	0.20 dB	
12450.00 MHz	−2.30 dB	−0.05 dB	2.30 dB	0.20 dB	
12650.00 MHz	−2.30 dB	−0.20 dB	2.30 dB	0.20 dB	
12850.00 MHz	−2.30 dB	−0.29 dB	2.30 dB	0.20 dB	
13050.00 MHz	−2.30 dB	−0.09 dB	2.30 dB	0.20 dB	
13250.00 MHz	−2.30 dB	−0.10 dB	2.30 dB	0.20 dB	
13450.00 MHz	−2.30 dB	−0.25 dB	2.30 dB	0.20 dB	
13550.00 MHz	−2.30 dB	−0.54 dB	2.30 dB	0.20 dB	
13650.00 MHz	−2.50 dB	−0.02 dB	2.50 dB	0.20 dB	
13850.00 MHz	−2.50 dB	−0.25 dB	2.50 dB	0.20 dB	
14050.00 MHz	−2.50 dB	−0.51 dB	2.50 dB	0.20 dB	
14250.00 MHz	−2.50 dB	−0.36 dB	2.50 dB	0.20 dB	
14450.00 MHz	−2.50 dB	−0.12 dB	2.50 dB	0.20 dB	
14650.00 MHz	−2.50 dB	−0.05 dB	2.50 dB	0.20 dB	

Freq Resp Above 3.6 GHz Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
14850.00 MHz	−2.50 dB	−0.36 dB	2.50 dB	0.20 dB	
15050.00 MHz	−2.50 dB	−0.26 dB	2.50 dB	0.20 dB	
15250.00 MHz	−2.50 dB	−0.21 dB	2.50 dB	0.20 dB	
15450.00 MHz	−2.50 dB	−0.01 dB	2.50 dB	0.20 dB	
15650.00 MHz	−2.50 dB	−0.16 dB	2.50 dB	0.20 dB	
15850.00 MHz	−2.50 dB	−0.26 dB	2.50 dB	0.20 dB	
16050.00 MHz	−2.50 dB	−0.23 dB	2.50 dB	0.20 dB	
16250.00 MHz	−2.50 dB	−0.32 dB	2.50 dB	0.20 dB	
16450.00 MHz	−2.50 dB	−0.37 dB	2.50 dB	0.20 dB	
16650.00 MHz	−2.50 dB	−0.16 dB	2.50 dB	0.20 dB	
16850.00 MHz	−2.50 dB	−0.07 dB	2.50 dB	0.20 dB	
17050.00 MHz	−2.50 dB	−0.21 dB	2.50 dB	0.20 dB	
17250.00 MHz	−3.00 dB	−0.25 dB	3.00 dB	0.20 dB	
17450.00 MHz	−3.00 dB	−0.23 dB	3.00 dB	0.20 dB	
17650.00 MHz	−3.00 dB	−0.23 dB	3.00 dB	0.20 dB	
17850.00 MHz	−3.00 dB	−0.14 dB	3.00 dB	0.20 dB	
18050.00 MHz	−3.00 dB	−0.12 dB	3.00 dB	0.20 dB	
18250.00 MHz	−3.00 dB	−0.17 dB	3.00 dB	0.20 dB	
18450.00 MHz	−3.00 dB	−0.48 dB	3.00 dB	0.20 dB	
18650.00 MHz	−3.00 dB	−0.50 dB	3.00 dB	0.20 dB	
18850.00 MHz	−3.00 dB	−0.43 dB	3.00 dB	0.20 dB	
19050.00 MHz	−3.00 dB	−0.34 dB	3.00 dB	0.20 dB	
19250.00 MHz	−3.00 dB	−0.32 dB	3.00 dB	0.20 dB	
19450.00 MHz	−3.00 dB	−0.68 dB	3.00 dB	0.20 dB	
19650.00 MHz	−3.00 dB	−0.49 dB	3.00 dB	0.20 dB	
19850.00 MHz	−3.00 dB	−0.61 dB	3.00 dB	0.20 dB	
20050.00 MHz	−3.00 dB	−0.38 dB	3.00 dB	0.20 dB	
20250.00 MHz	−3.00 dB	−0.60 dB	3.00 dB	0.20 dB	
20450.00 MHz	−3.00 dB	−0.56 dB	3.00 dB	0.20 dB	
20650.00 MHz	−3.00 dB	−0.81 dB	3.00 dB	0.20 dB	
20850.00 MHz	−3.00 dB	−0.54 dB	3.00 dB	0.20 dB	
21050.00 MHz	−3.00 dB	−0.83 dB	3.00 dB	0.20 dB	
21250.00 MHz	−3.00 dB	−0.40 dB	3.00 dB	0.21 dB	
21450.00 MHz	−3.00 dB	−0.57 dB	3.00 dB	0.21 dB	
21650.00 MHz	−3.00 dB	−0.14 dB	3.00 dB	0.21 dB	
21850.00 MHz	−3.00 dB	−0.60 dB	3.00 dB	0.21 dB	
22050.00 MHz	−3.50 dB	−1.23 dB	3.50 dB	0.21 dB	
22250.00 MHz	−3.50 dB	−0.94 dB	3.50 dB	0.21 dB	
22450.00 MHz	−3.50 dB	−0.43 dB	3.50 dB	0.21 dB	
22650.00 MHz	−3.50 dB	−0.40 dB	3.50 dB	0.21 dB	
22850.00 MHz	−3.50 dB	−0.89 dB	3.50 dB	0.21 dB	
23050.00 MHz	−3.50 dB	−0.72 dB	3.50 dB	0.21 dB	
23250.00 MHz	−3.50 dB	−0.63 dB	3.50 dB	0.21 dB	
23450.00 MHz	−3.50 dB	−0.23 dB	3.50 dB	0.21 dB	
23650.00 MHz	−3.50 dB	−0.37 dB	3.50 dB	0.21 dB	
23850.00 MHz	−3.50 dB	−0.31 dB	3.50 dB	0.21 dB	
24050.00 MHz	−3.50 dB	−0.86 dB	3.50 dB	0.21 dB	
24250.00 MHz	−3.50 dB	−0.23 dB	3.50 dB	0.21 dB	
24450.00 MHz	−3.50 dB	−0.48 dB	3.50 dB	0.21 dB	
24650.00 MHz	−3.50 dB	−0.01 dB	3.50 dB	0.21 dB	
24850.00 MHz	−3.50 dB	−0.54 dB	3.50 dB	0.21 dB	

Freq Resp Above 3.6 GHz Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
25050.00 MHz	−3.50 dB	−0.65 dB	3.50 dB	0.21 dB	
25250.00 MHz	−3.50 dB	−0.85 dB	3.50 dB	0.21 dB	
25450.00 MHz	−3.50 dB	−0.35 dB	3.50 dB	0.21 dB	
25650.00 MHz	−3.50 dB	−0.90 dB	3.50 dB	0.21 dB	
25850.00 MHz	−3.50 dB	−0.75 dB	3.50 dB	0.21 dB	
26050.00 MHz	−3.50 dB	−0.68 dB	3.50 dB	0.21 dB	
26250.00 MHz	−3.50 dB	−0.58 dB	3.50 dB	0.21 dB	
26450.00 MHz	−3.50 dB	−1.43 dB	3.50 dB	0.21 dB	
26650.00 MHz	−3.00 dB	−1.15 dB	3.00 dB	0.35 dB	
26850.00 MHz	−3.00 dB	−0.71 dB	3.00 dB	0.35 dB	
27050.00 MHz	−3.00 dB	−0.89 dB	3.00 dB	0.36 dB	
27250.00 MHz	−3.00 dB	−0.96 dB	3.00 dB	0.36 dB	
27450.00 MHz	−3.00 dB	−1.27 dB	3.00 dB	0.36 dB	
27650.00 MHz	−3.00 dB	−1.06 dB	3.00 dB	0.36 dB	
27850.00 MHz	−3.00 dB	−0.35 dB	3.00 dB	0.36 dB	
28050.00 MHz	−3.00 dB	−0.54 dB	3.00 dB	0.36 dB	
28250.00 MHz	−3.00 dB	−1.06 dB	3.00 dB	0.36 dB	
28450.00 MHz	−3.00 dB	−0.52 dB	3.00 dB	0.36 dB	
28650.00 MHz	−3.00 dB	−0.43 dB	3.00 dB	0.36 dB	
28850.00 MHz	−3.00 dB	−0.65 dB	3.00 dB	0.36 dB	
29050.00 MHz	−3.00 dB	−1.26 dB	3.00 dB	0.36 dB	
29250.00 MHz	−3.00 dB	−0.44 dB	3.00 dB	0.36 dB	
29450.00 MHz	−3.00 dB	−0.88 dB	3.00 dB	0.36 dB	
29650.00 MHz	−3.00 dB	−1.30 dB	3.00 dB	0.36 dB	
29850.00 MHz	−3.00 dB	−0.48 dB	3.00 dB	0.36 dB	
30050.00 MHz	−3.00 dB	−1.13 dB	3.00 dB	0.36 dB	
30250.00 MHz	−3.00 dB	−0.83 dB	3.00 dB	0.36 dB	
30450.00 MHz	−3.00 dB	−0.94 dB	3.00 dB	0.36 dB	
30650.00 MHz	−3.00 dB	−0.49 dB	3.00 dB	0.36 dB	
30850.00 MHz	−3.00 dB	−1.14 dB	3.00 dB	0.36 dB	
31050.00 MHz	−3.00 dB	−0.79 dB	3.00 dB	0.37 dB	
31250.00 MHz	−3.00 dB	−0.80 dB	3.00 dB	0.37 dB	
31450.00 MHz	−3.00 dB	−0.87 dB	3.00 dB	0.37 dB	
31650.00 MHz	−3.00 dB	−1.27 dB	3.00 dB	0.37 dB	
31850.00 MHz	−3.00 dB	−0.76 dB	3.00 dB	0.37 dB	
32050.00 MHz	−3.00 dB	−1.11 dB	3.00 dB	0.37 dB	
32250.00 MHz	−3.00 dB	−0.65 dB	3.00 dB	0.37 dB	
32450.00 MHz	−3.00 dB	−1.09 dB	3.00 dB	0.37 dB	
32650.00 MHz	−3.00 dB	−0.55 dB	3.00 dB	0.37 dB	
32850.00 MHz	−3.00 dB	−1.60 dB	3.00 dB	0.37 dB	
33050.00 MHz	−3.00 dB	−1.19 dB	3.00 dB	0.37 dB	
33250.00 MHz	−3.00 dB	−0.99 dB	3.00 dB	0.37 dB	
33450.00 MHz	−3.00 dB	−0.80 dB	3.00 dB	0.38 dB	
33650.00 MHz	−3.00 dB	−1.36 dB	3.00 dB	0.38 dB	
33850.00 MHz	−3.00 dB	−1.45 dB	3.00 dB	0.38 dB	
34050.00 MHz	−3.00 dB	−0.86 dB	3.00 dB	0.38 dB	
34250.00 MHz	−3.00 dB	−0.72 dB	3.00 dB	0.38 dB	
34450.00 MHz	−3.00 dB	−0.95 dB	3.00 dB	0.38 dB	
34650.00 MHz	−4.10 dB	−1.74 dB	4.10 dB	0.38 dB	
34850.00 MHz	−4.10 dB	−1.19 dB	4.10 dB	0.38 dB	
35050.00 MHz	−4.10 dB	−0.78 dB	4.10 dB	0.39 dB	

Freq Resp Above 3.6 GHz Preamp On (cont.)

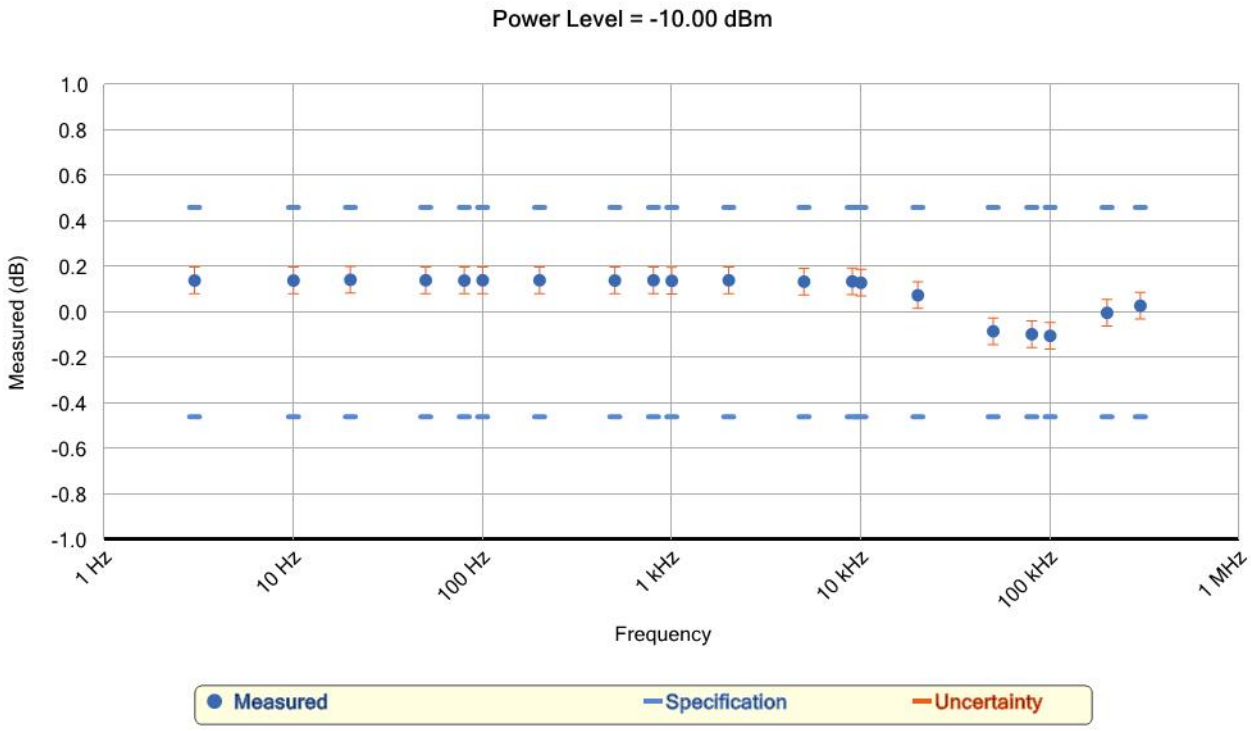
Frequency	Minimum	Measured	Maximum	Uncert.	Status
35250.00 MHz	−4.10 dB	−1.04 dB	4.10 dB	0.39 dB	
35450.00 MHz	−4.10 dB	−1.95 dB	4.10 dB	0.39 dB	
35650.00 MHz	−4.10 dB	−1.73 dB	4.10 dB	0.39 dB	
35850.00 MHz	−4.10 dB	−1.17 dB	4.10 dB	0.39 dB	
36050.00 MHz	−4.10 dB	−1.42 dB	4.10 dB	0.39 dB	
36250.00 MHz	−4.10 dB	−1.51 dB	4.10 dB	0.39 dB	
36450.00 MHz	−4.10 dB	−1.83 dB	4.10 dB	0.39 dB	
36650.00 MHz	−4.10 dB	−0.98 dB	4.10 dB	0.39 dB	
36850.00 MHz	−4.10 dB	−1.38 dB	4.10 dB	0.40 dB	
37050.00 MHz	−4.10 dB	−1.38 dB	4.10 dB	0.40 dB	
37250.00 MHz	−4.10 dB	−1.81 dB	4.10 dB	0.40 dB	
37450.00 MHz	−4.10 dB	−1.27 dB	4.10 dB	0.40 dB	
37650.00 MHz	−4.10 dB	−1.42 dB	4.10 dB	0.39 dB	
37850.00 MHz	−4.10 dB	−1.56 dB	4.10 dB	0.39 dB	
38050.00 MHz	−4.10 dB	−1.75 dB	4.10 dB	0.39 dB	
38250.00 MHz	−4.10 dB	−1.54 dB	4.10 dB	0.40 dB	
38450.00 MHz	−4.10 dB	−2.19 dB	4.10 dB	0.40 dB	
38650.00 MHz	−4.10 dB	−1.92 dB	4.10 dB	0.40 dB	
38850.00 MHz	−4.10 dB	−2.01 dB	4.10 dB	0.40 dB	
39050.00 MHz	−4.10 dB	−1.66 dB	4.10 dB	0.40 dB	
39250.00 MHz	−4.10 dB	−2.53 dB	4.10 dB	0.40 dB	
39450.00 MHz	−4.10 dB	−2.09 dB	4.10 dB	0.40 dB	
39650.00 MHz	−4.10 dB	−0.91 dB	4.10 dB	0.41 dB	
39850.00 MHz	−4.10 dB	−1.46 dB	4.10 dB	0.41 dB	
40050.00 MHz	−4.10 dB	−1.88 dB	4.10 dB	0.49 dB	
40250.00 MHz	−4.10 dB	−1.43 dB	4.10 dB	0.50 dB	
40450.00 MHz	−4.10 dB	−0.90 dB	4.10 dB	0.51 dB	
40650.00 MHz	−4.10 dB	−1.73 dB	4.10 dB	0.51 dB	
40850.00 MHz	−4.10 dB	−1.09 dB	4.10 dB	0.51 dB	
41050.00 MHz	−4.10 dB	−1.24 dB	4.10 dB	0.51 dB	
41250.00 MHz	−4.10 dB	−2.00 dB	4.10 dB	0.51 dB	
41450.00 MHz	−4.10 dB	−1.11 dB	4.10 dB	0.52 dB	
41650.00 MHz	−4.10 dB	−1.28 dB	4.10 dB	0.52 dB	
41850.00 MHz	−4.10 dB	−1.68 dB	4.10 dB	0.52 dB	
42050.00 MHz	−4.10 dB	−2.79 dB	4.10 dB	0.52 dB	
42250.00 MHz	−4.10 dB	−1.69 dB	4.10 dB	0.52 dB	
42450.00 MHz	−4.10 dB	−1.94 dB	4.10 dB	0.53 dB	
42650.00 MHz	−4.10 dB	−1.50 dB	4.10 dB	0.53 dB	
42850.00 MHz	−4.10 dB	−2.43 dB	4.10 dB	0.53 dB	
43050.00 MHz	−4.10 dB	−1.75 dB	4.10 dB	0.53 dB	
43250.00 MHz	−4.10 dB	−1.75 dB	4.10 dB	0.53 dB	
43450.00 MHz	−4.10 dB	−2.75 dB	4.10 dB	0.53 dB	
43650.00 MHz	−4.10 dB	−2.90 dB	4.10 dB	0.53 dB	
43850.00 MHz	−4.10 dB	−2.21 dB	4.10 dB	0.53 dB	
44050.00 MHz	−4.10 dB	−1.93 dB	4.10 dB	0.63 dB	
44250.00 MHz	−4.10 dB	−2.56 dB	4.10 dB	0.63 dB	
44450.00 MHz	−4.10 dB	−2.82 dB	4.10 dB	0.63 dB	
44650.00 MHz	−4.10 dB	−1.32 dB	4.10 dB	0.63 dB	
44850.00 MHz	−4.10 dB	−1.77 dB	4.10 dB	0.63 dB	
45050.00 MHz	−4.10 dB	−1.20 dB	4.10 dB	0.53 dB	
45250.00 MHz	−4.10 dB	−2.54 dB	4.10 dB	0.53 dB	

Freq Resp Above 3.6 GHz Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
45450.00 MHz	−4.10 dB	−1.34 dB	4.10 dB	0.52 dB	
45650.00 MHz	−4.10 dB	−1.20 dB	4.10 dB	0.52 dB	
45850.00 MHz	−4.10 dB	−1.51 dB	4.10 dB	0.52 dB	
46050.00 MHz	−4.10 dB	−2.59 dB	4.10 dB	0.52 dB	
46250.00 MHz	−4.10 dB	−2.14 dB	4.10 dB	0.52 dB	
46450.00 MHz	−4.10 dB	−1.25 dB	4.10 dB	0.52 dB	
46650.00 MHz	−4.10 dB	−1.83 dB	4.10 dB	0.51 dB	
46850.00 MHz	−4.10 dB	−2.55 dB	4.10 dB	0.51 dB	
47050.00 MHz	−4.10 dB	−2.51 dB	4.10 dB	0.51 dB	
47250.00 MHz	−4.10 dB	−1.59 dB	4.10 dB	0.51 dB	
47450.00 MHz	−4.10 dB	−1.68 dB	4.10 dB	0.50 dB	
47650.00 MHz	−4.10 dB	−2.33 dB	4.10 dB	0.50 dB	
47850.00 MHz	−4.10 dB	−2.49 dB	4.10 dB	0.50 dB	
48050.00 MHz	−4.10 dB	−1.52 dB	4.10 dB	0.50 dB	
48250.00 MHz	−4.10 dB	−1.33 dB	4.10 dB	0.49 dB	
48450.00 MHz	−4.10 dB	−3.90 dB	4.10 dB	0.49 dB	P‡
48650.00 MHz	−4.10 dB	−1.83 dB	4.10 dB	0.49 dB	
48850.00 MHz	−4.10 dB	−1.80 dB	4.10 dB	0.48 dB	
49050.00 MHz	−4.10 dB	−1.75 dB	4.10 dB	0.48 dB	
49250.00 MHz	−4.10 dB	−3.47 dB	4.10 dB	0.48 dB	
49450.00 MHz	−4.10 dB	−2.41 dB	4.10 dB	0.47 dB	
49650.00 MHz	−4.10 dB	−1.95 dB	4.10 dB	0.47 dB	
49850.00 MHz	−4.10 dB	−2.65 dB	4.10 dB	0.47 dB	

Freq Resp Below 300 kHz

Passed



Power Level = -10.00 dBm

Frequency	Minimum	Measured	Maximum	Uncert.	Status
3.00 Hz	−0.46 dB	0.139 dB	0.46 dB	0.059 dB	
10.00 Hz	−0.46 dB	0.139 dB	0.46 dB	0.059 dB	
20.00 Hz	−0.46 dB	0.142 dB	0.46 dB	0.059 dB	
50.00 Hz	−0.46 dB	0.140 dB	0.46 dB	0.059 dB	
80.00 Hz	−0.46 dB	0.139 dB	0.46 dB	0.059 dB	
100.00 Hz	−0.46 dB	0.140 dB	0.46 dB	0.059 dB	
200.00 Hz	−0.46 dB	0.140 dB	0.46 dB	0.059 dB	
500.00 Hz	−0.46 dB	0.139 dB	0.46 dB	0.059 dB	
800.00 Hz	−0.46 dB	0.140 dB	0.46 dB	0.059 dB	
1000.00 Hz	−0.46 dB	0.138 dB	0.46 dB	0.059 dB	
2000.00 Hz	−0.46 dB	0.140 dB	0.46 dB	0.059 dB	
5000.00 Hz	−0.46 dB	0.134 dB	0.46 dB	0.059 dB	
9000.00 Hz	−0.46 dB	0.135 dB	0.46 dB	0.059 dB	
10000.00 Hz	−0.46 dB	0.129 dB	0.46 dB	0.059 dB	
20000.00 Hz	−0.46 dB	0.074 dB	0.46 dB	0.059 dB	
50000.00 Hz	−0.46 dB	−0.084 dB	0.46 dB	0.059 dB	
80000.00 Hz	−0.46 dB	−0.097 dB	0.46 dB	0.059 dB	
100000.00 Hz	−0.46 dB	−0.104 dB	0.46 dB	0.059 dB	

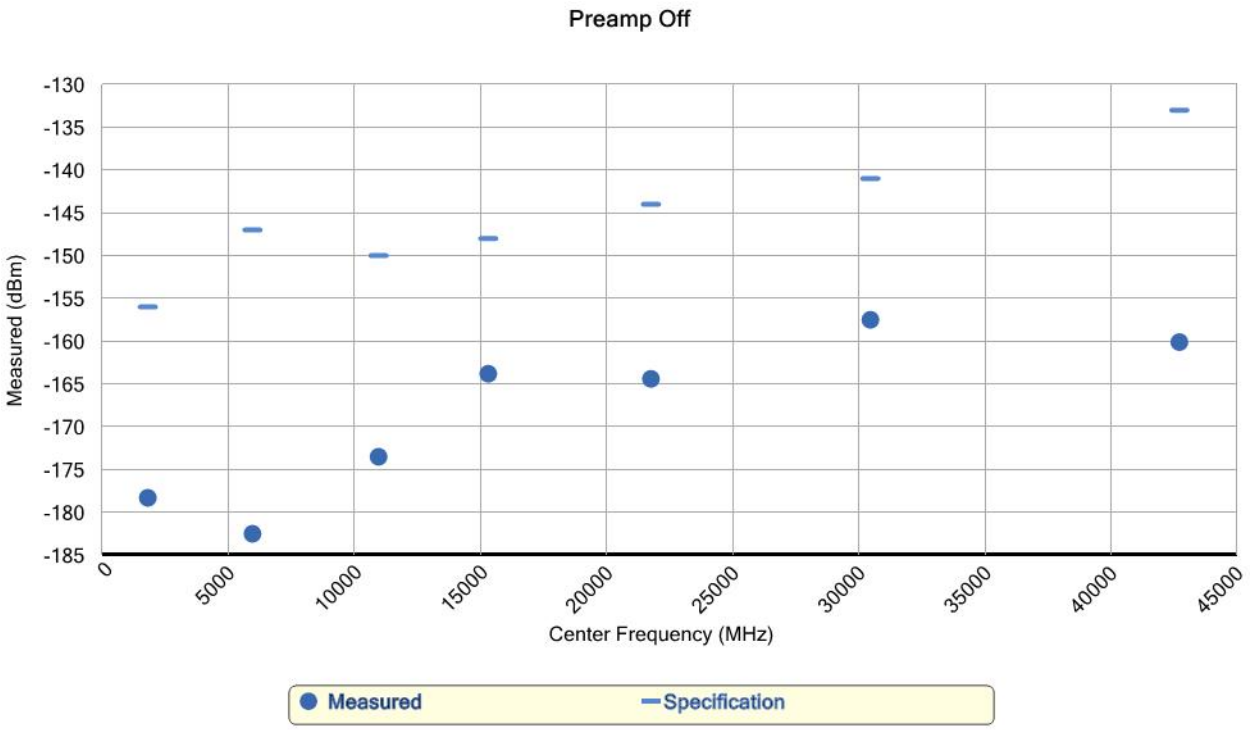
Freq Resp Below 300 kHz (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
200000.00 Hz	−0.46 dB	−0.003 dB	0.46 dB	0.059 dB	
300000.00 Hz	−0.46 dB	0.028 dB	0.46 dB	0.059 dB	

Internal Alignment — As Expected

Test Condition	Result
Functional Check	DONE

Effective DANL Option NFE — As Expected

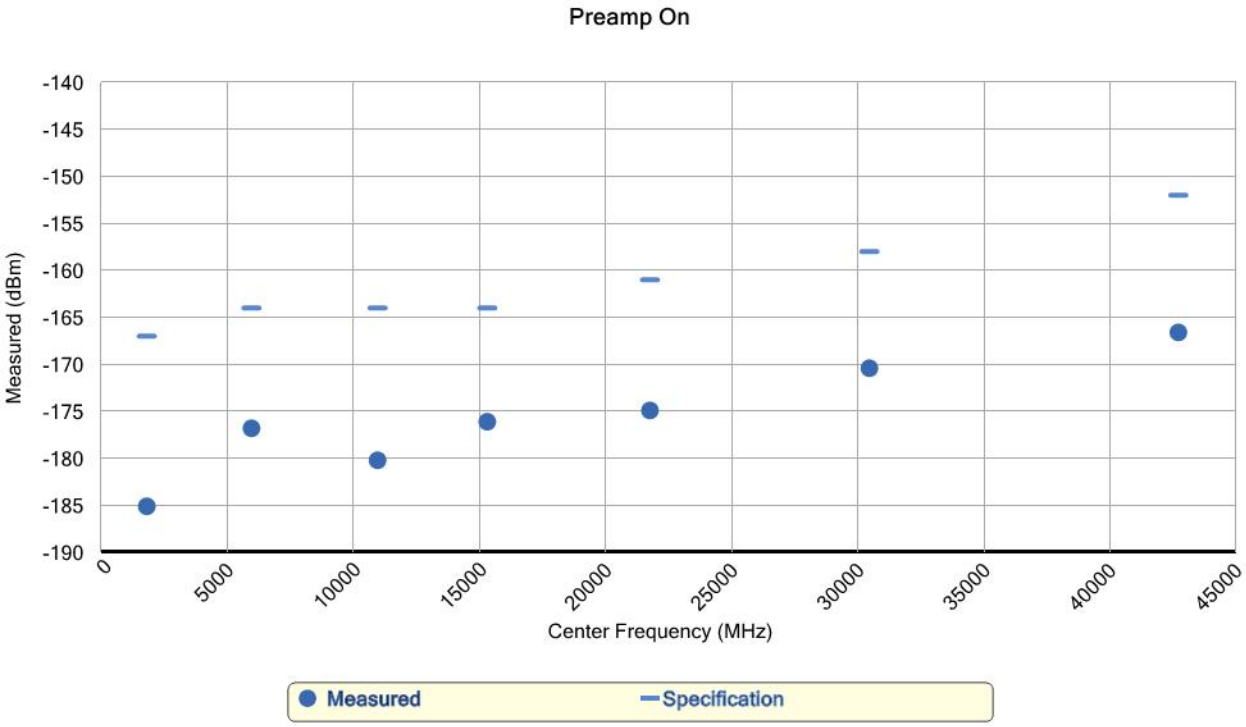


Preamp Off

Center Frequency	Noise Improvement	Measured	Maximum	Status
1803.14 MHz	−22.11 dB	−178.3 dBm	−156 dBm	
5953.14 MHz	−31.33 dB	−182.5 dBm	−147 dBm	
10953.14 MHz	−23.61 dB	−173.5 dBm	−150 dBm	
15303.14 MHz	−15.49 dB	−163.8 dBm	−148 dBm	
21753.14 MHz	−18.86 dB	−164.4 dBm	−144 dBm	
30453.14 MHz	−14.85 dB	−157.5 dBm	−141 dBm	
42703.14 MHz	−22.40 dB	−160.1 dBm	−133 dBm	

Effective DANL Option NFE (cont.)

Note: This is not a published warranted specification. The test limits have been set to ensure that the hardware is functional.

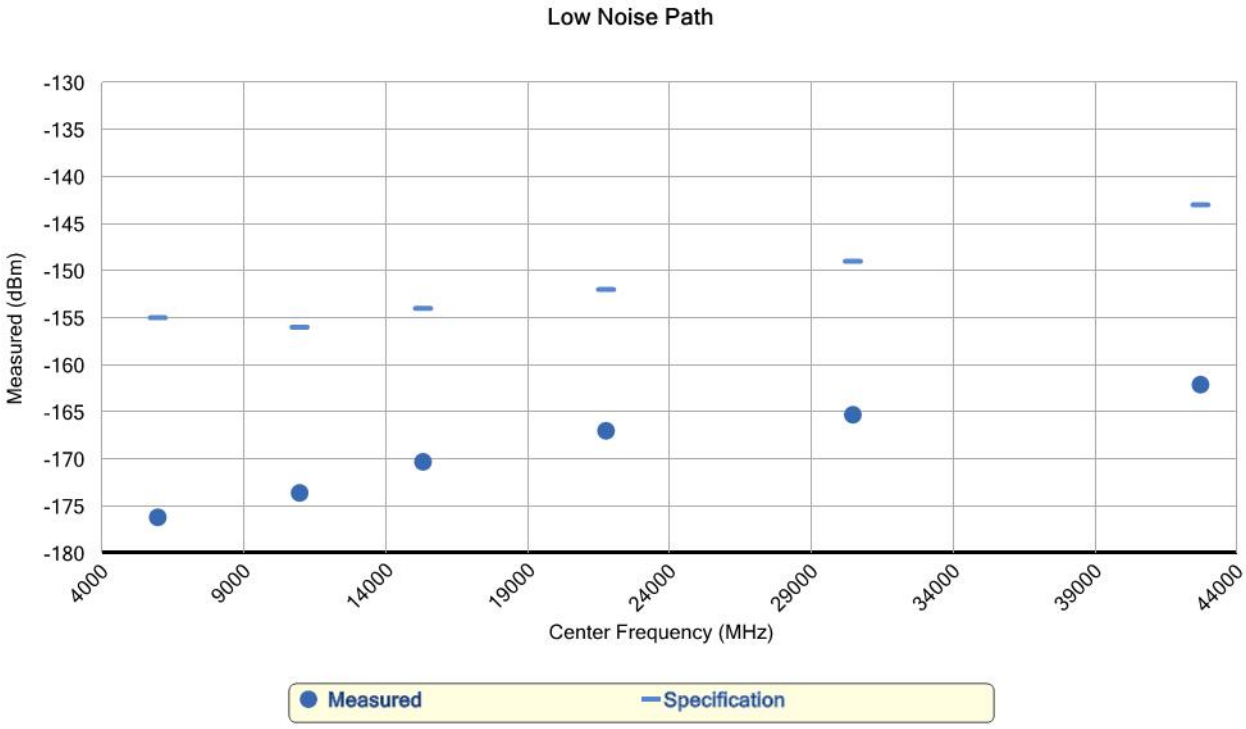


Preamp On

Center Frequency	Noise Improvement	Measured	Maximum	Status
1803.14 MHz	−19.06 dB	−185.1 dBm	−167 dBm	
5953.14 MHz	−12.33 dB	−176.8 dBm	−164 dBm	
10953.14 MHz	−16.36 dB	−180.2 dBm	−164 dBm	
15303.14 MHz	−11.61 dB	−176.1 dBm	−164 dBm	
21753.14 MHz	−11.74 dB	−174.9 dBm	−161 dBm	
30453.14 MHz	−9.62 dB	−170.4 dBm	−158 dBm	
42703.14 MHz	−9.97 dB	−166.6 dBm	−152 dBm	

Note: This is not a published warranted specification. The test limits have been set to ensure that the hardware is functional.

Effective DANL Option NFE (cont.)

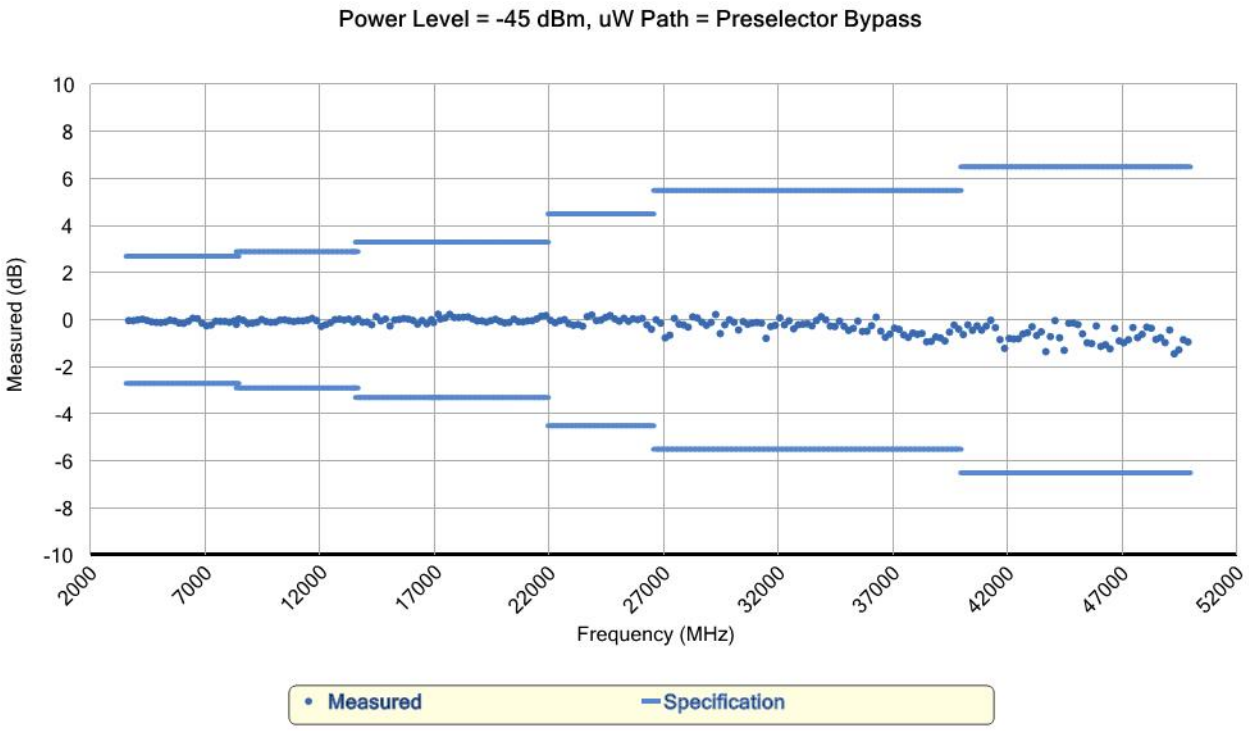


Low Noise Path

Center Frequency	Noise Improvement	Measured	Maximum	Status
5953.14 MHz	−19.60 dB	−176.2 dBm	−155 dBm	
10953.14 MHz	−17.98 dB	−173.6 dBm	−156 dBm	
15303.14 MHz	−16.64 dB	−170.3 dBm	−154 dBm	
21753.14 MHz	−15.41 dB	−167.0 dBm	−152 dBm	
30453.14 MHz	−16.63 dB	−165.3 dBm	−149 dBm	
42703.14 MHz	−17.14 dB	−162.1 dBm	−143 dBm	

Note: This is not a published warranted specification. The test limits have been set to ensure that the hardware is functional.

Freq Resp Unpreselected Preamp On — As Expected



Power Level = -45 dBm, uW Path = Preselector Bypass

Frequency	Minimum	Measured	Maximum	Status
3650.00 MHz	−2.70 dB	−0.030 dB	2.70 dB	
3850.00 MHz	−2.70 dB	−0.035 dB	2.70 dB	
4050.00 MHz	−2.70 dB	0.000 dB	2.70 dB	
4250.00 MHz	−2.70 dB	0.030 dB	2.70 dB	
4450.00 MHz	−2.70 dB	−0.023 dB	2.70 dB	
4650.00 MHz	−2.70 dB	−0.083 dB	2.70 dB	
4850.00 MHz	−2.70 dB	−0.109 dB	2.70 dB	
5050.00 MHz	−2.70 dB	−0.116 dB	2.70 dB	
5250.00 MHz	−2.70 dB	−0.093 dB	2.70 dB	
5450.00 MHz	−2.70 dB	−0.013 dB	2.70 dB	
5650.00 MHz	−2.70 dB	−0.045 dB	2.70 dB	
5850.00 MHz	−2.70 dB	−0.135 dB	2.70 dB	
6050.00 MHz	−2.70 dB	−0.148 dB	2.70 dB	
6250.00 MHz	−2.70 dB	−0.064 dB	2.70 dB	
6450.00 MHz	−2.70 dB	0.069 dB	2.70 dB	
6650.00 MHz	−2.70 dB	0.051 dB	2.70 dB	
6850.00 MHz	−2.70 dB	−0.141 dB	2.70 dB	
7050.00 MHz	−2.70 dB	−0.251 dB	2.70 dB	

Freq Resp Unpreselected Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Status
7250.00 MHz	−2.70 dB	−0.219 dB	2.70 dB	
7450.00 MHz	−2.70 dB	−0.055 dB	2.70 dB	
7650.00 MHz	−2.70 dB	−0.068 dB	2.70 dB	
7850.00 MHz	−2.70 dB	−0.066 dB	2.70 dB	
8050.00 MHz	−2.70 dB	−0.101 dB	2.70 dB	
8250.00 MHz	−2.70 dB	−0.042 dB	2.70 dB	
8350.00 MHz	−2.70 dB	−0.194 dB	2.70 dB	
8450.00 MHz	−2.90 dB	0.039 dB	2.90 dB	
8650.00 MHz	−2.90 dB	−0.019 dB	2.90 dB	
8850.00 MHz	−2.90 dB	−0.161 dB	2.90 dB	
9050.00 MHz	−2.90 dB	−0.145 dB	2.90 dB	
9250.00 MHz	−2.90 dB	−0.103 dB	2.90 dB	
9450.00 MHz	−2.90 dB	0.016 dB	2.90 dB	
9650.00 MHz	−2.90 dB	−0.071 dB	2.90 dB	
9850.00 MHz	−2.90 dB	−0.103 dB	2.90 dB	
10050.00 MHz	−2.90 dB	−0.097 dB	2.90 dB	
10250.00 MHz	−2.90 dB	−0.007 dB	2.90 dB	
10450.00 MHz	−2.90 dB	0.001 dB	2.90 dB	
10650.00 MHz	−2.90 dB	−0.035 dB	2.90 dB	
10850.00 MHz	−2.90 dB	−0.075 dB	2.90 dB	
11050.00 MHz	−2.90 dB	−0.040 dB	2.90 dB	
11250.00 MHz	−2.90 dB	−0.041 dB	2.90 dB	
11450.00 MHz	−2.90 dB	−0.009 dB	2.90 dB	
11650.00 MHz	−2.90 dB	0.065 dB	2.90 dB	
11850.00 MHz	−2.90 dB	−0.033 dB	2.90 dB	
12050.00 MHz	−2.90 dB	−0.280 dB	2.90 dB	
12250.00 MHz	−2.90 dB	−0.203 dB	2.90 dB	
12450.00 MHz	−2.90 dB	−0.122 dB	2.90 dB	
12650.00 MHz	−2.90 dB	0.008 dB	2.90 dB	
12850.00 MHz	−2.90 dB	0.029 dB	2.90 dB	
13050.00 MHz	−2.90 dB	−0.007 dB	2.90 dB	
13250.00 MHz	−2.90 dB	0.031 dB	2.90 dB	
13450.00 MHz	−2.90 dB	−0.096 dB	2.90 dB	
13550.00 MHz	−2.90 dB	−0.010 dB	2.90 dB	
13650.00 MHz	−3.30 dB	0.043 dB	3.30 dB	
13850.00 MHz	−3.30 dB	−0.100 dB	3.30 dB	
14050.00 MHz	−3.30 dB	−0.093 dB	3.30 dB	
14250.00 MHz	−3.30 dB	−0.204 dB	3.30 dB	
14450.00 MHz	−3.30 dB	0.136 dB	3.30 dB	
14650.00 MHz	−3.30 dB	−0.041 dB	3.30 dB	
14850.00 MHz	−3.30 dB	0.036 dB	3.30 dB	
15050.00 MHz	−3.30 dB	−0.259 dB	3.30 dB	
15250.00 MHz	−3.30 dB	−0.005 dB	3.30 dB	
15450.00 MHz	−3.30 dB	0.016 dB	3.30 dB	
15650.00 MHz	−3.30 dB	0.057 dB	3.30 dB	
15850.00 MHz	−3.30 dB	0.031 dB	3.30 dB	
16050.00 MHz	−3.30 dB	−0.023 dB	3.30 dB	
16250.00 MHz	−3.30 dB	−0.184 dB	3.30 dB	
16450.00 MHz	−3.30 dB	−0.028 dB	3.30 dB	
16650.00 MHz	−3.30 dB	−0.169 dB	3.30 dB	
16850.00 MHz	−3.30 dB	0.012 dB	3.30 dB	

Freq Resp Unpreselected Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Status
16950.00 MHz	−3.30 dB	−0.113 dB	3.30 dB	
17150.00 MHz	−3.30 dB	0.242 dB	3.30 dB	
17250.00 MHz	−3.30 dB	0.033 dB	3.30 dB	
17450.00 MHz	−3.30 dB	0.081 dB	3.30 dB	
17650.00 MHz	−3.30 dB	0.236 dB	3.30 dB	
17850.00 MHz	−3.30 dB	0.099 dB	3.30 dB	
18050.00 MHz	−3.30 dB	0.098 dB	3.30 dB	
18250.00 MHz	−3.30 dB	0.112 dB	3.30 dB	
18450.00 MHz	−3.30 dB	0.124 dB	3.30 dB	
18650.00 MHz	−3.30 dB	0.041 dB	3.30 dB	
18850.00 MHz	−3.30 dB	−0.046 dB	3.30 dB	
19050.00 MHz	−3.30 dB	−0.041 dB	3.30 dB	
19250.00 MHz	−3.30 dB	−0.095 dB	3.30 dB	
19450.00 MHz	−3.30 dB	−0.033 dB	3.30 dB	
19650.00 MHz	−3.30 dB	0.027 dB	3.30 dB	
19850.00 MHz	−3.30 dB	−0.065 dB	3.30 dB	
20050.00 MHz	−3.30 dB	−0.132 dB	3.30 dB	
20250.00 MHz	−3.30 dB	−0.110 dB	3.30 dB	
20450.00 MHz	−3.30 dB	0.032 dB	3.30 dB	
20650.00 MHz	−3.30 dB	−0.077 dB	3.30 dB	
20850.00 MHz	−3.30 dB	−0.088 dB	3.30 dB	
21050.00 MHz	−3.30 dB	−0.042 dB	3.30 dB	
21250.00 MHz	−3.30 dB	−0.037 dB	3.30 dB	
21450.00 MHz	−3.30 dB	0.040 dB	3.30 dB	
21650.00 MHz	−3.30 dB	0.159 dB	3.30 dB	
21850.00 MHz	−3.30 dB	0.185 dB	3.30 dB	
22050.00 MHz	−4.50 dB	−0.019 dB	4.50 dB	
22250.00 MHz	−4.50 dB	−0.126 dB	4.50 dB	
22450.00 MHz	−4.50 dB	−0.037 dB	4.50 dB	
22650.00 MHz	−4.50 dB	0.012 dB	4.50 dB	
22850.00 MHz	−4.50 dB	−0.166 dB	4.50 dB	
23050.00 MHz	−4.50 dB	−0.230 dB	4.50 dB	
23250.00 MHz	−4.50 dB	−0.197 dB	4.50 dB	
23450.00 MHz	−4.50 dB	−0.271 dB	4.50 dB	
23650.00 MHz	−4.50 dB	0.138 dB	4.50 dB	
23850.00 MHz	−4.50 dB	0.209 dB	4.50 dB	
24050.00 MHz	−4.50 dB	−0.032 dB	4.50 dB	
24250.00 MHz	−4.50 dB	−0.007 dB	4.50 dB	
24450.00 MHz	−4.50 dB	0.104 dB	4.50 dB	
24650.00 MHz	−4.50 dB	0.187 dB	4.50 dB	
24850.00 MHz	−4.50 dB	0.040 dB	4.50 dB	
25050.00 MHz	−4.50 dB	−0.056 dB	4.50 dB	
25250.00 MHz	−4.50 dB	0.069 dB	4.50 dB	
25450.00 MHz	−4.50 dB	−0.062 dB	4.50 dB	
25650.00 MHz	−4.50 dB	0.048 dB	4.50 dB	
25850.00 MHz	−4.50 dB	0.007 dB	4.50 dB	
26050.00 MHz	−4.50 dB	0.064 dB	4.50 dB	
26250.00 MHz	−4.50 dB	−0.212 dB	4.50 dB	
26450.00 MHz	−4.50 dB	−0.401 dB	4.50 dB	
26650.00 MHz	−5.50 dB	0.004 dB	5.50 dB	
26850.00 MHz	−5.50 dB	−0.142 dB	5.50 dB	

Freq Resp Unpreselected Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Status
27050.00 MHz	−5.50 dB	−0.766 dB	5.50 dB	
27250.00 MHz	−5.50 dB	−0.654 dB	5.50 dB	
27450.00 MHz	−5.50 dB	0.062 dB	5.50 dB	
27650.00 MHz	−5.50 dB	−0.182 dB	5.50 dB	
27850.00 MHz	−5.50 dB	−0.214 dB	5.50 dB	
28050.00 MHz	−5.50 dB	−0.310 dB	5.50 dB	
28250.00 MHz	−5.50 dB	0.127 dB	5.50 dB	
28450.00 MHz	−5.50 dB	0.081 dB	5.50 dB	
28650.00 MHz	−5.50 dB	−0.097 dB	5.50 dB	
28850.00 MHz	−5.50 dB	−0.231 dB	5.50 dB	
29050.00 MHz	−5.50 dB	−0.108 dB	5.50 dB	
29250.00 MHz	−5.50 dB	0.229 dB	5.50 dB	
29450.00 MHz	−5.50 dB	−0.585 dB	5.50 dB	
29650.00 MHz	−5.50 dB	−0.210 dB	5.50 dB	
29850.00 MHz	−5.50 dB	0.005 dB	5.50 dB	
30050.00 MHz	−5.50 dB	−0.101 dB	5.50 dB	
30250.00 MHz	−5.50 dB	−0.429 dB	5.50 dB	
30450.00 MHz	−5.50 dB	−0.075 dB	5.50 dB	
30650.00 MHz	−5.50 dB	−0.189 dB	5.50 dB	
30850.00 MHz	−5.50 dB	−0.134 dB	5.50 dB	
31050.00 MHz	−5.50 dB	−0.111 dB	5.50 dB	
31250.00 MHz	−5.50 dB	−0.138 dB	5.50 dB	
31450.00 MHz	−5.50 dB	−0.785 dB	5.50 dB	
31650.00 MHz	−5.50 dB	−0.284 dB	5.50 dB	
31850.00 MHz	−5.50 dB	−0.230 dB	5.50 dB	
32050.00 MHz	−5.50 dB	0.087 dB	5.50 dB	
32250.00 MHz	−5.50 dB	−0.211 dB	5.50 dB	
32450.00 MHz	−5.50 dB	−0.042 dB	5.50 dB	
32650.00 MHz	−5.50 dB	−0.381 dB	5.50 dB	
32850.00 MHz	−5.50 dB	−0.211 dB	5.50 dB	
33050.00 MHz	−5.50 dB	−0.187 dB	5.50 dB	
33250.00 MHz	−5.50 dB	−0.165 dB	5.50 dB	
33450.00 MHz	−5.50 dB	−0.254 dB	5.50 dB	
33650.00 MHz	−5.50 dB	−0.025 dB	5.50 dB	
33850.00 MHz	−5.50 dB	0.137 dB	5.50 dB	
34050.00 MHz	−5.50 dB	0.002 dB	5.50 dB	
34250.00 MHz	−5.50 dB	−0.265 dB	5.50 dB	
34450.00 MHz	−5.50 dB	−0.283 dB	5.50 dB	
34650.00 MHz	−5.50 dB	−0.056 dB	5.50 dB	
34850.00 MHz	−5.50 dB	−0.275 dB	5.50 dB	
35050.00 MHz	−5.50 dB	−0.448 dB	5.50 dB	
35250.00 MHz	−5.50 dB	−0.363 dB	5.50 dB	
35450.00 MHz	−5.50 dB	−0.056 dB	5.50 dB	
35650.00 MHz	−5.50 dB	−0.493 dB	5.50 dB	
35850.00 MHz	−5.50 dB	−0.484 dB	5.50 dB	
36050.00 MHz	−5.50 dB	−0.247 dB	5.50 dB	
36250.00 MHz	−5.50 dB	0.115 dB	5.50 dB	
36450.00 MHz	−5.50 dB	−0.483 dB	5.50 dB	
36650.00 MHz	−5.50 dB	−0.741 dB	5.50 dB	
36850.00 MHz	−5.50 dB	−0.601 dB	5.50 dB	
37050.00 MHz	−5.50 dB	−0.350 dB	5.50 dB	

Freq Resp Unpreselected Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Status
37250.00 MHz	−5.50 dB	−0.405 dB	5.50 dB	
37450.00 MHz	−5.50 dB	−0.639 dB	5.50 dB	
37650.00 MHz	−5.50 dB	−0.744 dB	5.50 dB	
37850.00 MHz	−5.50 dB	−0.557 dB	5.50 dB	
38050.00 MHz	−5.50 dB	−0.617 dB	5.50 dB	
38250.00 MHz	−5.50 dB	−0.578 dB	5.50 dB	
38450.00 MHz	−5.50 dB	−0.934 dB	5.50 dB	
38650.00 MHz	−5.50 dB	−0.913 dB	5.50 dB	
38850.00 MHz	−5.50 dB	−0.722 dB	5.50 dB	
39050.00 MHz	−5.50 dB	−0.766 dB	5.50 dB	
39250.00 MHz	−5.50 dB	−0.897 dB	5.50 dB	
39450.00 MHz	−5.50 dB	−0.519 dB	5.50 dB	
39650.00 MHz	−5.50 dB	−0.219 dB	5.50 dB	
39850.00 MHz	−5.50 dB	−0.393 dB	5.50 dB	
40050.00 MHz	−6.50 dB	−0.624 dB	6.50 dB	
40250.00 MHz	−6.50 dB	−0.215 dB	6.50 dB	
40450.00 MHz	−6.50 dB	−0.446 dB	6.50 dB	
40650.00 MHz	−6.50 dB	−0.257 dB	6.50 dB	
40850.00 MHz	−6.50 dB	−0.438 dB	6.50 dB	
41050.00 MHz	−6.50 dB	−0.264 dB	6.50 dB	
41250.00 MHz	−6.50 dB	−0.018 dB	6.50 dB	
41450.00 MHz	−6.50 dB	−0.331 dB	6.50 dB	
41650.00 MHz	−6.50 dB	−0.838 dB	6.50 dB	
41850.00 MHz	−6.50 dB	−1.212 dB	6.50 dB	
42050.00 MHz	−6.50 dB	−0.789 dB	6.50 dB	
42250.00 MHz	−6.50 dB	−0.814 dB	6.50 dB	
42450.00 MHz	−6.50 dB	−0.804 dB	6.50 dB	
42650.00 MHz	−6.50 dB	−0.599 dB	6.50 dB	
42850.00 MHz	−6.50 dB	−0.546 dB	6.50 dB	
43050.00 MHz	−6.50 dB	−0.294 dB	6.50 dB	
43250.00 MHz	−6.50 dB	−0.665 dB	6.50 dB	
43450.00 MHz	−6.50 dB	−0.507 dB	6.50 dB	
43650.00 MHz	−6.50 dB	−1.352 dB	6.50 dB	
43850.00 MHz	−6.50 dB	−0.711 dB	6.50 dB	
44050.00 MHz	−6.50 dB	−0.032 dB	6.50 dB	
44250.00 MHz	−6.50 dB	−0.761 dB	6.50 dB	
44450.00 MHz	−6.50 dB	−1.296 dB	6.50 dB	
44650.00 MHz	−6.50 dB	−0.144 dB	6.50 dB	
44850.00 MHz	−6.50 dB	−0.133 dB	6.50 dB	
45050.00 MHz	−6.50 dB	−0.200 dB	6.50 dB	
45250.00 MHz	−6.50 dB	−0.596 dB	6.50 dB	
45450.00 MHz	−6.50 dB	−0.976 dB	6.50 dB	
45650.00 MHz	−6.50 dB	−1.008 dB	6.50 dB	
45850.00 MHz	−6.50 dB	−0.259 dB	6.50 dB	
46050.00 MHz	−6.50 dB	−1.130 dB	6.50 dB	
46250.00 MHz	−6.50 dB	−1.056 dB	6.50 dB	
46450.00 MHz	−6.50 dB	−1.232 dB	6.50 dB	
46650.00 MHz	−6.50 dB	−0.360 dB	6.50 dB	
46850.00 MHz	−6.50 dB	−0.894 dB	6.50 dB	
47050.00 MHz	−6.50 dB	−0.976 dB	6.50 dB	
47250.00 MHz	−6.50 dB	−0.846 dB	6.50 dB	

Freq Resp Unpreselected Preamp On (cont.)

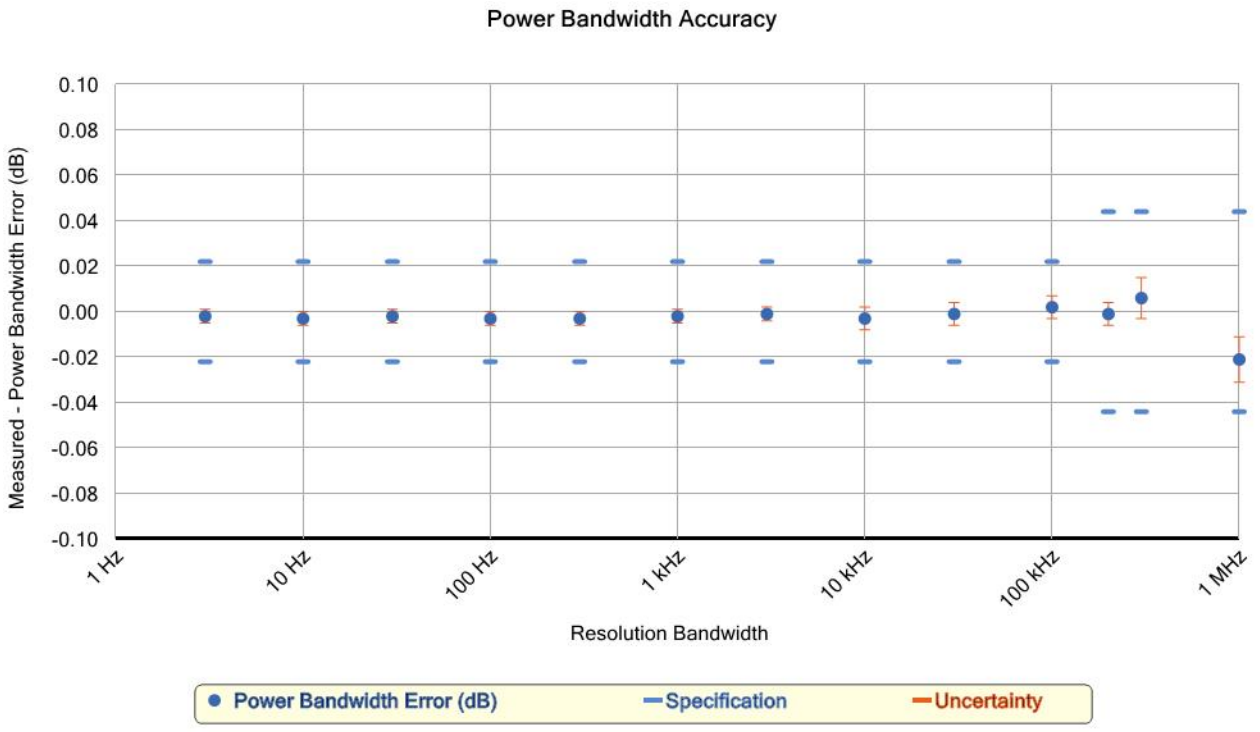
Frequency	Minimum	Measured	Maximum	Status
47450.00 MHz	−6.50 dB	−0.327 dB	6.50 dB	
47650.00 MHz	−6.50 dB	−0.757 dB	6.50 dB	
47850.00 MHz	−6.50 dB	−0.613 dB	6.50 dB	
48050.00 MHz	−6.50 dB	−0.310 dB	6.50 dB	
48250.00 MHz	−6.50 dB	−0.356 dB	6.50 dB	
48450.00 MHz	−6.50 dB	−0.830 dB	6.50 dB	
48650.00 MHz	−6.50 dB	−0.758 dB	6.50 dB	
48850.00 MHz	−6.50 dB	−0.965 dB	6.50 dB	
49050.00 MHz	−6.50 dB	−0.432 dB	6.50 dB	
49250.00 MHz	−6.50 dB	−1.443 dB	6.50 dB	
49450.00 MHz	−6.50 dB	−1.274 dB	6.50 dB	
49650.00 MHz	−6.50 dB	−0.843 dB	6.50 dB	
49850.00 MHz	−6.50 dB	−0.938 dB	6.50 dB	

Note: A “Functional test” is designed to verify an overall “function” rather than a warranted level of performance. The test limits are wide enough that Measurement Uncertainties are not relevant to the test result, therefore MUs are not reported. These measurements do not depend on the scope-of-accreditation.

Frequency Reference Accuracy — Passed

Frequency	Minimum	Measured	Maximum	Uncert.	Status
10 MHz Ref	−1.55 Hz	−0.46 Hz	1.55 Hz	0.013 Hz	

Power Bandwidth Accuracy — Passed



Resolution Bandwidth	Minimum	Measured	Maximum	Uncertainty	Status
3.00 Hz	−0.022 dB	−0.0020 dB	0.022 dB	0.0030 dB	
10.00 Hz	−0.022 dB	−0.0030 dB	0.022 dB	0.0030 dB	
30.00 Hz	−0.022 dB	−0.0020 dB	0.022 dB	0.0030 dB	
100.00 Hz	−0.022 dB	−0.0030 dB	0.022 dB	0.0030 dB	
300.00 Hz	−0.022 dB	−0.0030 dB	0.022 dB	0.0030 dB	
1000.00 Hz	−0.022 dB	−0.0020 dB	0.022 dB	0.0030 dB	
3000.00 Hz	−0.022 dB	−0.0010 dB	0.022 dB	0.0030 dB	
10000.00 Hz	−0.022 dB	−0.0030 dB	0.022 dB	0.0050 dB	
30000.00 Hz	−0.022 dB	−0.0010 dB	0.022 dB	0.0050 dB	
100000.00 Hz	−0.022 dB	0.0020 dB	0.022 dB	0.0050 dB	
200000.00 Hz	−0.044 dB	−0.0010 dB	0.044 dB	0.0050 dB	
300000.00 Hz	−0.044 dB	0.0060 dB	0.044 dB	0.0090 dB	
1000000.00 Hz	−0.044 dB	−0.0210 dB	0.044 dB	0.010 dB	

Resolution Bandwidth Switching Uncertainty — Passed

Relative to 30 kHz RBW

Resolution Bandwidth	Minimum	Measured	Maximum	Uncertainty	Status
0.30 kHz	−0.03 dB	−0.0020 dB	0.03 dB	0.0063 dB	
0.51 kHz	−0.03 dB	−0.0030 dB	0.03 dB	0.0063 dB	
1.00 kHz	−0.03 dB	−0.0010 dB	0.03 dB	0.0063 dB	
3.00 kHz	−0.03 dB	−0.0050 dB	0.03 dB	0.0063 dB	
10.00 kHz	−0.03 dB	−0.0030 dB	0.03 dB	0.0063 dB	
100.00 kHz	−0.03 dB	−0.0010 dB	0.03 dB	0.0063 dB	
300.00 kHz	−0.03 dB	−0.0010 dB	0.03 dB	0.0063 dB	
1000.00 kHz	−0.03 dB	−0.0020 dB	0.03 dB	0.0063 dB	
1500.00 kHz	−0.03 dB	−0.0010 dB	0.03 dB	0.0063 dB	
2000.00 kHz	−0.05 dB	0.0000 dB	0.05 dB	0.0063 dB	
3000.00 kHz	−0.10 dB	0.0080 dB	0.10 dB	0.0063 dB	
4000.00 kHz	−0.30 dB	0.0100 dB	0.30 dB	0.0063 dB	
5000.00 kHz	−0.30 dB	0.0150 dB	0.30 dB	0.0063 dB	
6000.00 kHz	−0.30 dB	0.0200 dB	0.30 dB	0.0063 dB	
8000.00 kHz	−0.30 dB	0.0280 dB	0.30 dB	0.0063 dB	

Residual Responses — Passed

STD Path, Preamplifier OFF

Center Frequency	Measured	Maximum	Uncert.	Status
1.25 MHz	−133.2 dBm	−100.00 dBm	3.4 dB	
5.00 MHz	−133.9 dBm	−100.00 dBm	3.4 dB	
6.00 MHz	−133.1 dBm	−100.00 dBm	3.3 dB	
50.00 MHz	−132.7 dBm	−100.00 dBm	3.3 dB	
88.33 MHz	−133.9 dBm	−100.00 dBm	3.4 dB	
150.00 MHz	−133.3 dBm	−100.00 dBm	3.4 dB	
200.00 MHz	−133.0 dBm	−100.00 dBm	3.3 dB	
250.00 MHz	−132.7 dBm	−100.00 dBm	3.3 dB	
400.00 MHz	−133.1 dBm	−100.00 dBm	3.3 dB	
702.00 MHz	−133.0 dBm	−100.00 dBm	3.3 dB	
1223.75 MHz	−132.4 dBm	−100.00 dBm	3.4 dB	
1331.25 MHz	−133.1 dBm	−100.00 dBm	3.5 dB	
1916.25 MHz	−132.2 dBm	−100.00 dBm	3.4 dB	
1996.88 MHz	−130.1 dBm	−100.00 dBm	3.2 dB	
2158.13 MHz	−131.2 dBm	−100.00 dBm	3.4 dB	
2400.00 MHz	−131.1 dBm	−100.00 dBm	3.4 dB	
2770.00 MHz	−130.4 dBm	−100.00 dBm	3.4 dB	
3600.00 MHz	−125.4 dBm	−100.00 dBm	3.2 dB	
4155.00 MHz	−125.9 dBm	−100.00 dBm	3.9 dB	
4800.00 MHz	−126.0 dBm	−100.00 dBm	3.9 dB	
6000.00 MHz	−127.1 dBm	−100.00 dBm	3.8 dB	
7200.00 MHz	−125.7 dBm	−100.00 dBm	3.7 dB	

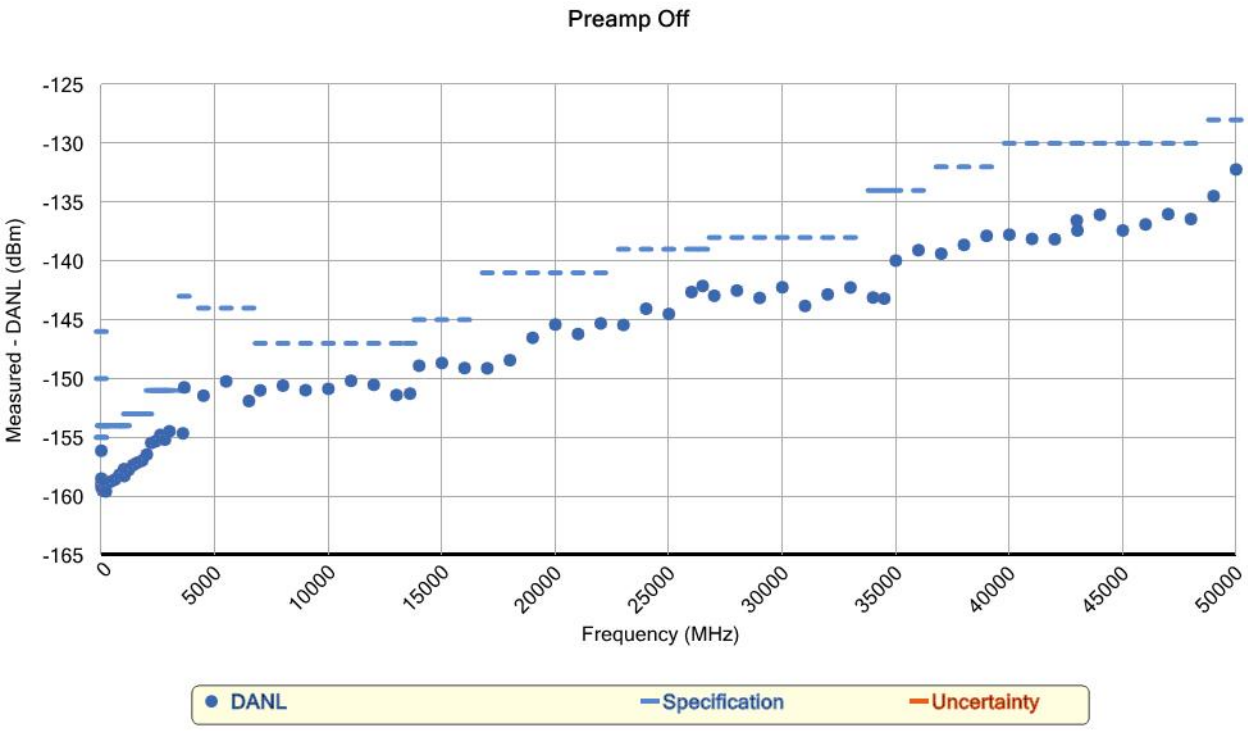
The reported uncertainties assume measured values near the specification limit.

Noise Density

Passed

Frequency	Span	IF Gain	Measured	Maximum	Uncert.	Status
1800 MHz	40 MHz	LOW	−153.01 dBm/Hz	−144.0 dBm/Hz	0.57 dB	
5950 MHz	40 MHz	LOW	−151.98 dBm/Hz	−140.0 dBm/Hz	0.57 dB	
10950 MHz	40 MHz	LOW	−149.75 dBm/Hz	−141.0 dBm/Hz	0.57 dB	
15300 MHz	40 MHz	LOW	−148.05 dBm/Hz	−135.0 dBm/Hz	0.57 dB	
21750 MHz	40 MHz	LOW	−147.08 dBm/Hz	−133.0 dBm/Hz	0.57 dB	
30000 MHz	40 MHz	LOW	−145.18 dBm/Hz	−130.0 dBm/Hz	0.57 dB	
42200 MHz	40 MHz	LOW	−141.25 dBm/Hz	−130.0 dBm/Hz	0.57 dB	
1800 MHz	40 MHz	HIGH	−154.74 dBm/Hz	−144.0 dBm/Hz	0.57 dB	
5950 MHz	40 MHz	HIGH	−153.63 dBm/Hz	−140.0 dBm/Hz	0.57 dB	
10950 MHz	40 MHz	HIGH	−150.58 dBm/Hz	−141.0 dBm/Hz	0.57 dB	
15300 MHz	40 MHz	HIGH	−148.71 dBm/Hz	−135.0 dBm/Hz	0.57 dB	
21750 MHz	40 MHz	HIGH	−147.49 dBm/Hz	−133.0 dBm/Hz	0.57 dB	
30000 MHz	40 MHz	HIGH	−145.39 dBm/Hz	−130.0 dBm/Hz	0.57 dB	
42200 MHz	40 MHz	HIGH	−141.32 dBm/Hz	−130.0 dBm/Hz	0.57 dB	
1800 MHz	140 MHz	LOW	−154.20 dBm/Hz	−149.0 dBm/Hz	0.57 dB	
5950 MHz	140 MHz	LOW	−153.03 dBm/Hz	−145.0 dBm/Hz	0.57 dB	
10950 MHz	140 MHz	LOW	−150.93 dBm/Hz	−144.0 dBm/Hz	0.57 dB	
15300 MHz	140 MHz	LOW	−148.14 dBm/Hz	−139.0 dBm/Hz	0.57 dB	
21750 MHz	140 MHz	LOW	−147.13 dBm/Hz	−136.0 dBm/Hz	0.57 dB	
30000 MHz	140 MHz	LOW	−145.80 dBm/Hz	−130.0 dBm/Hz	0.57 dB	
42200 MHz	140 MHz	LOW	−141.46 dBm/Hz	−130.0 dBm/Hz	0.57 dB	
1800 MHz	140 MHz	HIGH	−155.47 dBm/Hz	−151.0 dBm/Hz	0.57 dB	
5950 MHz	140 MHz	HIGH	−153.97 dBm/Hz	−146.0 dBm/Hz	0.57 dB	
10950 MHz	140 MHz	HIGH	−151.34 dBm/Hz	−145.0 dBm/Hz	0.57 dB	
15300 MHz	140 MHz	HIGH	−148.94 dBm/Hz	−139.0 dBm/Hz	0.57 dB	
21750 MHz	140 MHz	HIGH	−147.59 dBm/Hz	−136.0 dBm/Hz	0.57 dB	
30000 MHz	140 MHz	HIGH	−145.52 dBm/Hz	−130.0 dBm/Hz	0.57 dB	
42200 MHz	140 MHz	HIGH	−141.44 dBm/Hz	−130.0 dBm/Hz	0.57 dB	

Displayed Average Noise Level — Passed



Preamp Off

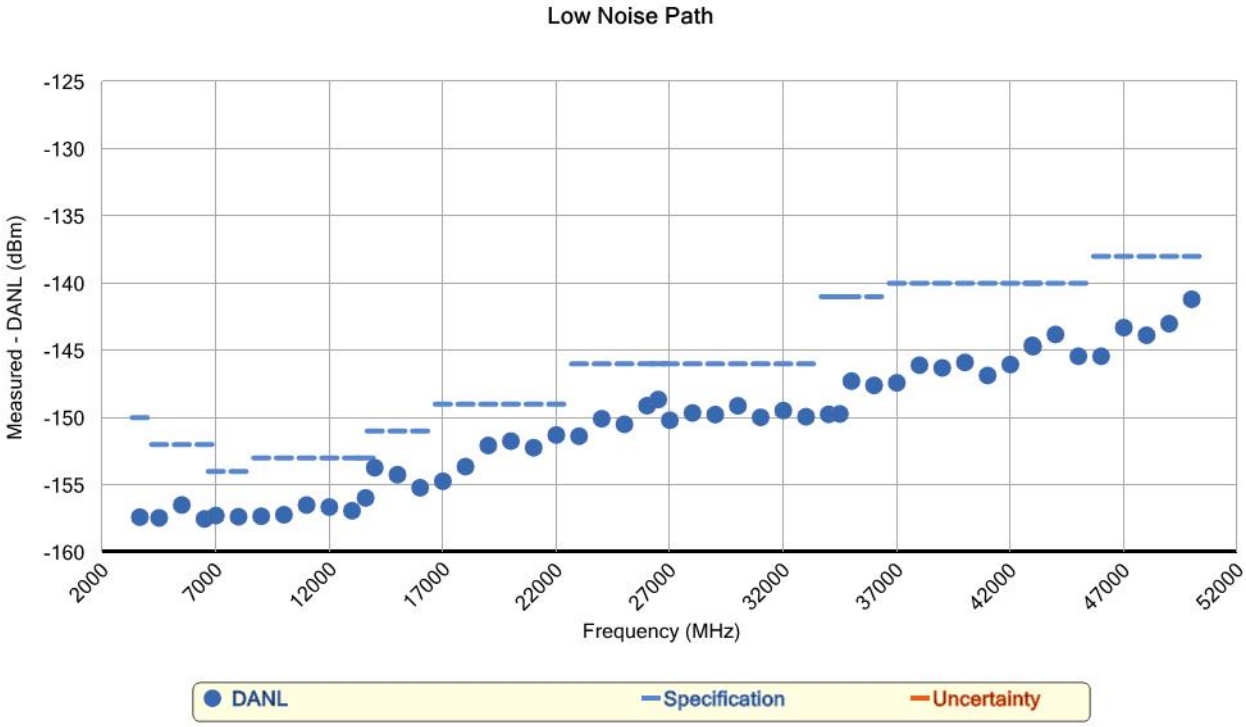
Frequency	Measured	Maximum	Uncert.	Status
0.05 MHz	−156.13 dBm	−146.00 dBm	0.33 dB	
0.50 MHz	−158.49 dBm	−150.00 dBm	0.33 dB	
1.00 MHz	−158.93 dBm	−155.00 dBm	0.33 dB	
9.90 MHz	−159.26 dBm	−155.00 dBm	0.33 dB	
41.00 MHz	−159.28 dBm	−154.00 dBm	0.33 dB	
71.00 MHz	−159.54 dBm	−154.00 dBm	0.33 dB	
101.00 MHz	−159.33 dBm	−154.00 dBm	0.33 dB	
201.00 MHz	−159.58 dBm	−154.00 dBm	0.33 dB	
401.00 MHz	−158.76 dBm	−154.00 dBm	0.33 dB	
601.00 MHz	−158.57 dBm	−154.00 dBm	0.33 dB	
801.00 MHz	−158.16 dBm	−154.00 dBm	0.33 dB	
1001.00 MHz	−157.69 dBm	−154.00 dBm	0.33 dB	
1010.00 MHz	−158.28 dBm	−154.00 dBm	0.33 dB	
1201.00 MHz	−157.76 dBm	−153.00 dBm	0.33 dB	
1401.00 MHz	−157.34 dBm	−153.00 dBm	0.33 dB	
1601.00 MHz	−157.13 dBm	−153.00 dBm	0.33 dB	
1801.00 MHz	−156.96 dBm	−153.00 dBm	0.33 dB	
2001.00 MHz	−156.45 dBm	−153.00 dBm	0.33 dB	

Displayed Average Noise Level (cont.)

Frequency	Measured	Maximum	Uncert.	Status
2201.00 MHz	−155.46 dBm	−151.00 dBm	0.33 dB	
2401.00 MHz	−155.31 dBm	−151.00 dBm	0.33 dB	
2601.00 MHz	−154.78 dBm	−151.00 dBm	0.33 dB	
2801.00 MHz	−155.18 dBm	−151.00 dBm	0.33 dB	
3001.00 MHz	−154.47 dBm	−151.00 dBm	0.33 dB	
3591.00 MHz	−154.65 dBm	−151.00 dBm	0.33 dB	
3651.00 MHz	−150.74 dBm	−143.00 dBm	0.33 dB	
4501.00 MHz	−151.45 dBm	−144.00 dBm	0.33 dB	
5501.00 MHz	−150.23 dBm	−144.00 dBm	0.33 dB	
6501.00 MHz	−151.90 dBm	−144.00 dBm	0.33 dB	
7001.00 MHz	−150.99 dBm	−147.00 dBm	0.33 dB	
8001.00 MHz	−150.59 dBm	−147.00 dBm	0.33 dB	
9001.00 MHz	−150.98 dBm	−147.00 dBm	0.33 dB	
10001.00 MHz	−150.86 dBm	−147.00 dBm	0.33 dB	
11001.00 MHz	−150.18 dBm	−147.00 dBm	0.33 dB	
12001.00 MHz	−150.52 dBm	−147.00 dBm	0.33 dB	
13001.00 MHz	−151.39 dBm	−147.00 dBm	0.33 dB	
13599.00 MHz	−151.27 dBm	−147.00 dBm	0.33 dB	
14001.00 MHz	−148.90 dBm	−145.00 dBm	0.33 dB	
15001.00 MHz	−148.67 dBm	−145.00 dBm	0.33 dB	
16001.00 MHz	−149.10 dBm	−145.00 dBm	0.33 dB	
17001.00 MHz	−149.12 dBm	−141.00 dBm	0.33 dB	
18001.00 MHz	−148.43 dBm	−141.00 dBm	0.33 dB	
19001.00 MHz	−146.52 dBm	−141.00 dBm	0.33 dB	
20001.00 MHz	−145.40 dBm	−141.00 dBm	0.33 dB	
21001.00 MHz	−146.20 dBm	−141.00 dBm	0.33 dB	
22001.00 MHz	−145.30 dBm	−141.00 dBm	0.33 dB	
23001.00 MHz	−145.43 dBm	−139.00 dBm	0.33 dB	
24001.00 MHz	−144.06 dBm	−139.00 dBm	0.33 dB	
25001.00 MHz	−144.50 dBm	−139.00 dBm	0.33 dB	
26001.00 MHz	−142.63 dBm	−139.00 dBm	0.33 dB	
26491.00 MHz	−142.12 dBm	−139.00 dBm	0.33 dB	
27001.00 MHz	−142.95 dBm	−138.00 dBm	0.33 dB	
28001.00 MHz	−142.51 dBm	−138.00 dBm	0.33 dB	
29001.00 MHz	−143.14 dBm	−138.00 dBm	0.33 dB	
30001.00 MHz	−142.23 dBm	−138.00 dBm	0.33 dB	
31001.00 MHz	−143.82 dBm	−138.00 dBm	0.33 dB	
32001.00 MHz	−142.84 dBm	−138.00 dBm	0.33 dB	
33001.00 MHz	−142.25 dBm	−138.00 dBm	0.33 dB	
34001.00 MHz	−143.10 dBm	−134.00 dBm	0.33 dB	
34491.00 MHz	−143.19 dBm	−134.00 dBm	0.33 dB	
35001.00 MHz	−139.96 dBm	−134.00 dBm	0.33 dB	
36001.00 MHz	−139.08 dBm	−134.00 dBm	0.33 dB	
37001.00 MHz	−139.38 dBm	−132.00 dBm	0.33 dB	
38001.00 MHz	−138.63 dBm	−132.00 dBm	0.33 dB	
39001.00 MHz	−137.86 dBm	−132.00 dBm	0.33 dB	
40001.00 MHz	−137.76 dBm	−130.00 dBm	0.33 dB	
41001.00 MHz	−138.12 dBm	−130.00 dBm	0.33 dB	
42001.00 MHz	−138.15 dBm	−130.00 dBm	0.33 dB	
42971.00 MHz	−136.55 dBm	−130.00 dBm	0.33 dB	
43001.00 MHz	−137.40 dBm	−130.00 dBm	0.33 dB	

Displayed Average Noise Level (cont.)

Frequency	Measured	Maximum	Uncert.	Status
43991.00 MHz	−136.06 dBm	−130.00 dBm	0.33 dB	
45001.00 MHz	−137.40 dBm	−130.00 dBm	0.33 dB	
46001.00 MHz	−136.89 dBm	−130.00 dBm	0.33 dB	
47001.00 MHz	−136.01 dBm	−130.00 dBm	0.33 dB	
48001.00 MHz	−136.43 dBm	−130.00 dBm	0.33 dB	
49001.00 MHz	−134.48 dBm	−128.00 dBm	0.33 dB	
49991.00 MHz	−132.22 dBm	−128.00 dBm	0.33 dB	



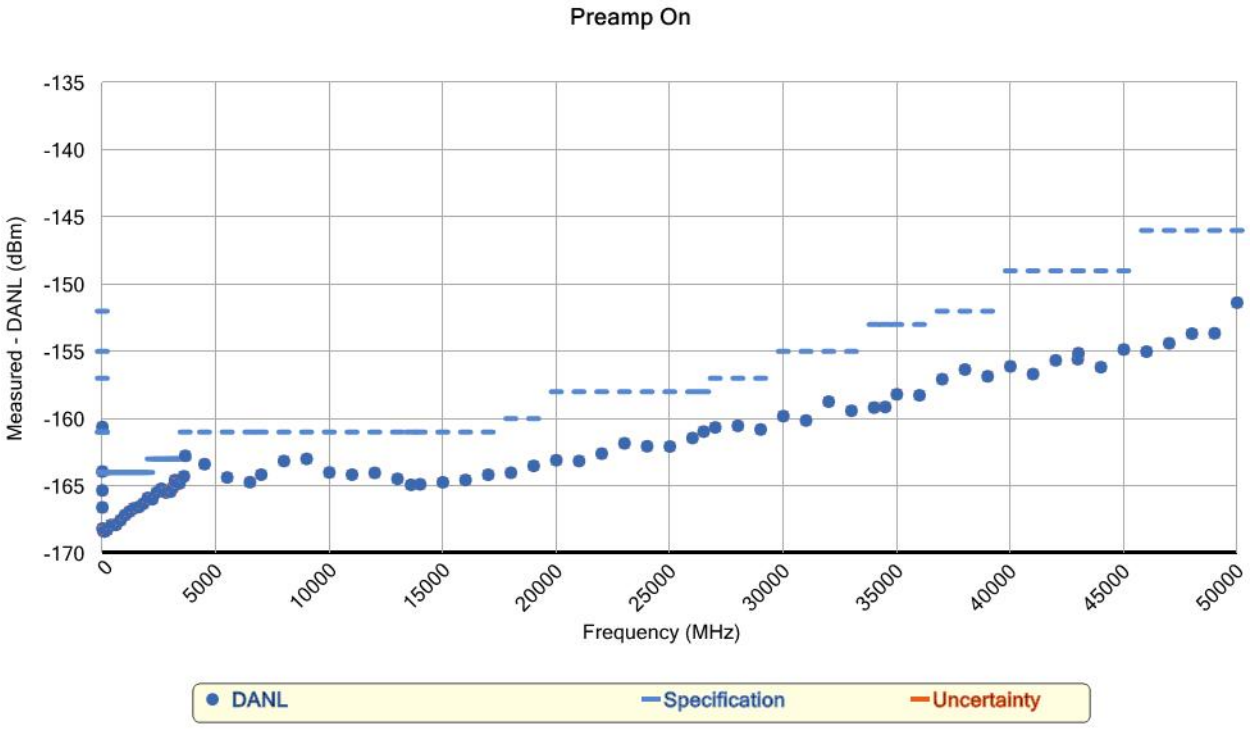
Low Noise Path

Frequency	Measured	Maximum	Uncert.	Status
3651.00 MHz	−157.40 dBm	−150.00 dBm	0.33 dB	
4501.00 MHz	−157.45 dBm	−152.00 dBm	0.33 dB	
5501.00 MHz	−156.49 dBm	−152.00 dBm	0.33 dB	
6501.00 MHz	−157.53 dBm	−152.00 dBm	0.33 dB	
7001.00 MHz	−157.28 dBm	−154.00 dBm	0.33 dB	
8001.00 MHz	−157.37 dBm	−154.00 dBm	0.33 dB	
9001.00 MHz	−157.33 dBm	−153.00 dBm	0.33 dB	
10001.00 MHz	−157.22 dBm	−153.00 dBm	0.33 dB	
11001.00 MHz	−156.50 dBm	−153.00 dBm	0.33 dB	
12001.00 MHz	−156.65 dBm	−153.00 dBm	0.33 dB	
13001.00 MHz	−156.92 dBm	−153.00 dBm	0.33 dB	
13599.00 MHz	−155.97 dBm	−153.00 dBm	0.33 dB	

Displayed Average Noise Level (cont.)

Frequency	Measured	Maximum	Uncert.	Status
14001.00 MHz	−153.72 dBm	−151.00 dBm	0.33 dB	
15001.00 MHz	−154.24 dBm	−151.00 dBm	0.33 dB	
16001.00 MHz	−155.21 dBm	−151.00 dBm	0.33 dB	
17001.00 MHz	−154.73 dBm	−149.00 dBm	0.33 dB	
18001.00 MHz	−153.64 dBm	−149.00 dBm	0.33 dB	
19001.00 MHz	−152.07 dBm	−149.00 dBm	0.33 dB	
20001.00 MHz	−151.74 dBm	−149.00 dBm	0.33 dB	
21001.00 MHz	−152.23 dBm	−149.00 dBm	0.33 dB	
22001.00 MHz	−151.29 dBm	−149.00 dBm	0.33 dB	
23001.00 MHz	−151.38 dBm	−146.00 dBm	0.33 dB	
24001.00 MHz	−150.08 dBm	−146.00 dBm	0.33 dB	
25001.00 MHz	−150.49 dBm	−146.00 dBm	0.33 dB	
26001.00 MHz	−149.11 dBm	−146.00 dBm	0.33 dB	
26491.00 MHz	−148.65 dBm	−146.00 dBm	0.33 dB	
27001.00 MHz	−150.19 dBm	−146.00 dBm	0.33 dB	
28001.00 MHz	−149.65 dBm	−146.00 dBm	0.33 dB	
29001.00 MHz	−149.77 dBm	−146.00 dBm	0.33 dB	
30001.00 MHz	−149.12 dBm	−146.00 dBm	0.33 dB	
31001.00 MHz	−149.98 dBm	−146.00 dBm	0.33 dB	
32001.00 MHz	−149.47 dBm	−146.00 dBm	0.33 dB	
33001.00 MHz	−149.93 dBm	−146.00 dBm	0.33 dB	
34001.00 MHz	−149.75 dBm	−141.00 dBm	0.33 dB	
34491.00 MHz	−149.72 dBm	−141.00 dBm	0.33 dB	
35001.00 MHz	−147.28 dBm	−141.00 dBm	0.33 dB	
36001.00 MHz	−147.60 dBm	−141.00 dBm	0.33 dB	
37001.00 MHz	−147.41 dBm	−140.00 dBm	0.33 dB	
38001.00 MHz	−146.10 dBm	−140.00 dBm	0.33 dB	
39001.00 MHz	−146.30 dBm	−140.00 dBm	0.33 dB	
40001.00 MHz	−145.89 dBm	−140.00 dBm	0.33 dB	
41001.00 MHz	−146.86 dBm	−140.00 dBm	0.33 dB	
42001.00 MHz	−146.05 dBm	−140.00 dBm	0.33 dB	
42971.00 MHz	−144.62 dBm	−140.00 dBm	0.33 dB	
43001.00 MHz	−144.72 dBm	−140.00 dBm	0.33 dB	
43991.00 MHz	−143.81 dBm	−140.00 dBm	0.33 dB	
45001.00 MHz	−145.43 dBm	−140.00 dBm	0.33 dB	
46001.00 MHz	−145.43 dBm	−138.00 dBm	0.33 dB	
47001.00 MHz	−143.30 dBm	−138.00 dBm	0.33 dB	
48001.00 MHz	−143.87 dBm	−138.00 dBm	0.33 dB	
49001.00 MHz	−143.01 dBm	−138.00 dBm	0.33 dB	
49991.00 MHz	−141.19 dBm	−138.00 dBm	0.33 dB	

Displayed Average Noise Level (cont.)



Preamp On

Frequency	Measured	Maximum	Uncert.	Status
0.15 MHz	−160.62 dBm	−152.00 dBm	0.33 dB	
0.30 MHz	−163.93 dBm	−155.00 dBm	0.33 dB	
0.60 MHz	−165.33 dBm	−157.00 dBm	0.33 dB	
1.00 MHz	−166.60 dBm	−161.00 dBm	0.33 dB	
9.90 MHz	−168.17 dBm	−161.00 dBm	0.33 dB	
41.00 MHz	−168.27 dBm	−164.00 dBm	0.33 dB	
71.00 MHz	−168.38 dBm	−164.00 dBm	0.33 dB	
101.00 MHz	−168.39 dBm	−164.00 dBm	0.33 dB	
201.00 MHz	−168.27 dBm	−164.00 dBm	0.33 dB	
401.00 MHz	−167.90 dBm	−164.00 dBm	0.33 dB	
601.00 MHz	−167.90 dBm	−164.00 dBm	0.33 dB	
801.00 MHz	−167.55 dBm	−164.00 dBm	0.33 dB	
1001.00 MHz	−167.17 dBm	−164.00 dBm	0.33 dB	
1201.00 MHz	−166.90 dBm	−164.00 dBm	0.33 dB	
1401.00 MHz	−166.66 dBm	−164.00 dBm	0.33 dB	
1601.00 MHz	−166.57 dBm	−164.00 dBm	0.33 dB	
1801.00 MHz	−166.33 dBm	−164.00 dBm	0.33 dB	
2001.00 MHz	−165.89 dBm	−164.00 dBm	0.33 dB	
2201.00 MHz	−165.99 dBm	−163.00 dBm	0.33 dB	
2401.00 MHz	−165.49 dBm	−163.00 dBm	0.33 dB	
2601.00 MHz	−165.21 dBm	−163.00 dBm	0.33 dB	

Displayed Average Noise Level (cont.)

Frequency	Measured	Maximum	Uncert.	Status
2801.00 MHz	−165.49 dBm	−163.00 dBm	0.33 dB	
3001.00 MHz	−165.43 dBm	−163.00 dBm	0.33 dB	
3101.00 MHz	−165.14 dBm	−163.00 dBm	0.33 dB	
3201.00 MHz	−164.57 dBm	−163.00 dBm	0.33 dB	
3301.00 MHz	−164.79 dBm	−163.00 dBm	0.33 dB	
3401.00 MHz	−164.81 dBm	−163.00 dBm	0.33 dB	
3591.00 MHz	−164.29 dBm	−163.00 dBm	0.33 dB	
3651.00 MHz	−162.76 dBm	−161.00 dBm	0.33 dB	
4501.00 MHz	−163.38 dBm	−161.00 dBm	0.33 dB	
5501.00 MHz	−164.37 dBm	−161.00 dBm	0.33 dB	
6501.00 MHz	−164.72 dBm	−161.00 dBm	0.33 dB	
6999.00 MHz	−164.16 dBm	−161.00 dBm	0.33 dB	
8001.00 MHz	−163.15 dBm	−161.00 dBm	0.33 dB	
9001.00 MHz	−162.99 dBm	−161.00 dBm	0.33 dB	
10001.00 MHz	−164.00 dBm	−161.00 dBm	0.33 dB	
11001.00 MHz	−164.16 dBm	−161.00 dBm	0.33 dB	
12001.00 MHz	−164.03 dBm	−161.00 dBm	0.33 dB	
13001.00 MHz	−164.47 dBm	−161.00 dBm	0.33 dB	
13599.00 MHz	−164.92 dBm	−161.00 dBm	0.33 dB	
14001.00 MHz	−164.88 dBm	−161.00 dBm	0.33 dB	
15001.00 MHz	−164.73 dBm	−161.00 dBm	0.33 dB	
16001.00 MHz	−164.56 dBm	−161.00 dBm	0.33 dB	
17001.00 MHz	−164.17 dBm	−161.00 dBm	0.33 dB	
18001.00 MHz	−164.02 dBm	−160.00 dBm	0.33 dB	
19001.00 MHz	−163.51 dBm	−160.00 dBm	0.33 dB	
20001.00 MHz	−163.09 dBm	−158.00 dBm	0.33 dB	
21001.00 MHz	−163.15 dBm	−158.00 dBm	0.33 dB	
22001.00 MHz	−162.60 dBm	−158.00 dBm	0.33 dB	
23001.00 MHz	−161.83 dBm	−158.00 dBm	0.33 dB	
24001.00 MHz	−162.05 dBm	−158.00 dBm	0.33 dB	
25001.00 MHz	−162.07 dBm	−158.00 dBm	0.33 dB	
26001.00 MHz	−161.44 dBm	−158.00 dBm	0.33 dB	
26491.00 MHz	−160.96 dBm	−158.00 dBm	0.33 dB	
27001.00 MHz	−160.65 dBm	−157.00 dBm	0.33 dB	
28001.00 MHz	−160.53 dBm	−157.00 dBm	0.33 dB	
29001.00 MHz	−160.80 dBm	−157.00 dBm	0.33 dB	
30001.00 MHz	−159.81 dBm	−155.00 dBm	0.33 dB	
31001.00 MHz	−160.13 dBm	−155.00 dBm	0.33 dB	
32001.00 MHz	−158.73 dBm	−155.00 dBm	0.33 dB	
33001.00 MHz	−159.41 dBm	−155.00 dBm	0.33 dB	
34001.00 MHz	−159.17 dBm	−153.00 dBm	0.33 dB	
34491.00 MHz	−159.13 dBm	−153.00 dBm	0.33 dB	
35001.00 MHz	−158.19 dBm	−153.00 dBm	0.33 dB	
36001.00 MHz	−158.26 dBm	−153.00 dBm	0.33 dB	
37001.00 MHz	−157.06 dBm	−152.00 dBm	0.33 dB	
38001.00 MHz	−156.34 dBm	−152.00 dBm	0.33 dB	
39001.00 MHz	−156.85 dBm	−152.00 dBm	0.33 dB	
40001.00 MHz	−156.11 dBm	−149.00 dBm	0.33 dB	
41001.00 MHz	−156.68 dBm	−149.00 dBm	0.33 dB	
42001.00 MHz	−155.66 dBm	−149.00 dBm	0.33 dB	
42971.00 MHz	−155.57 dBm	−149.00 dBm	0.33 dB	

Displayed Average Noise Level (cont.)

Frequency	Measured	Maximum	Uncert.	Status
43001.00 MHz	−155.13 dBm	−149.00 dBm	0.33 dB	
43991.00 MHz	−156.17 dBm	−149.00 dBm	0.33 dB	
45001.00 MHz	−154.86 dBm	−149.00 dBm	0.33 dB	
46001.00 MHz	−155.01 dBm	−146.00 dBm	0.33 dB	
47001.00 MHz	−154.39 dBm	−146.00 dBm	0.33 dB	
48001.00 MHz	−153.67 dBm	−146.00 dBm	0.33 dB	
49001.00 MHz	−153.65 dBm	−146.00 dBm	0.33 dB	
49991.00 MHz	−151.37 dBm	−146.00 dBm	0.33 dB	

Frequency Readout Accuracy **Passed**

Center Frequency	Span	RBW	Minimum	Measured	Maximum	Uncertainty	Sts
517.59 MHz	1.980 MHz	0.018 MHz	−2.9 kHz	0.00 kHz	2.9 kHz	0.30 kHz	
832.50 MHz	1.980 MHz	0.018 MHz	−2.9 kHz	0.40 kHz	2.9 kHz	0.30 kHz	
1505.00 MHz	318.000 MHz	3.000 MHz	−476.0 kHz	95.40 kHz	476.0 kHz	49 kHz	
1505.00 MHz	127.200 MHz	1.200 MHz	−190.4 kHz	−6.36 kHz	190.4 kHz	19 kHz	
1505.00 MHz	54.100 MHz	0.510 MHz	−81.0 kHz	2.71 kHz	81.0 kHz	8.3 kHz	
1505.00 MHz	7.950 MHz	0.075 MHz	−11.9 kHz	0.80 kHz	11.9 kHz	1.2 kHz	
1505.00 MHz	0.106 MHz	0.001 MHz	−0.2 kHz	−0.01 kHz	0.2 kHz	0.016 kHz	

Frequency Span Accuracy **Passed**

Sweep Points = 20001

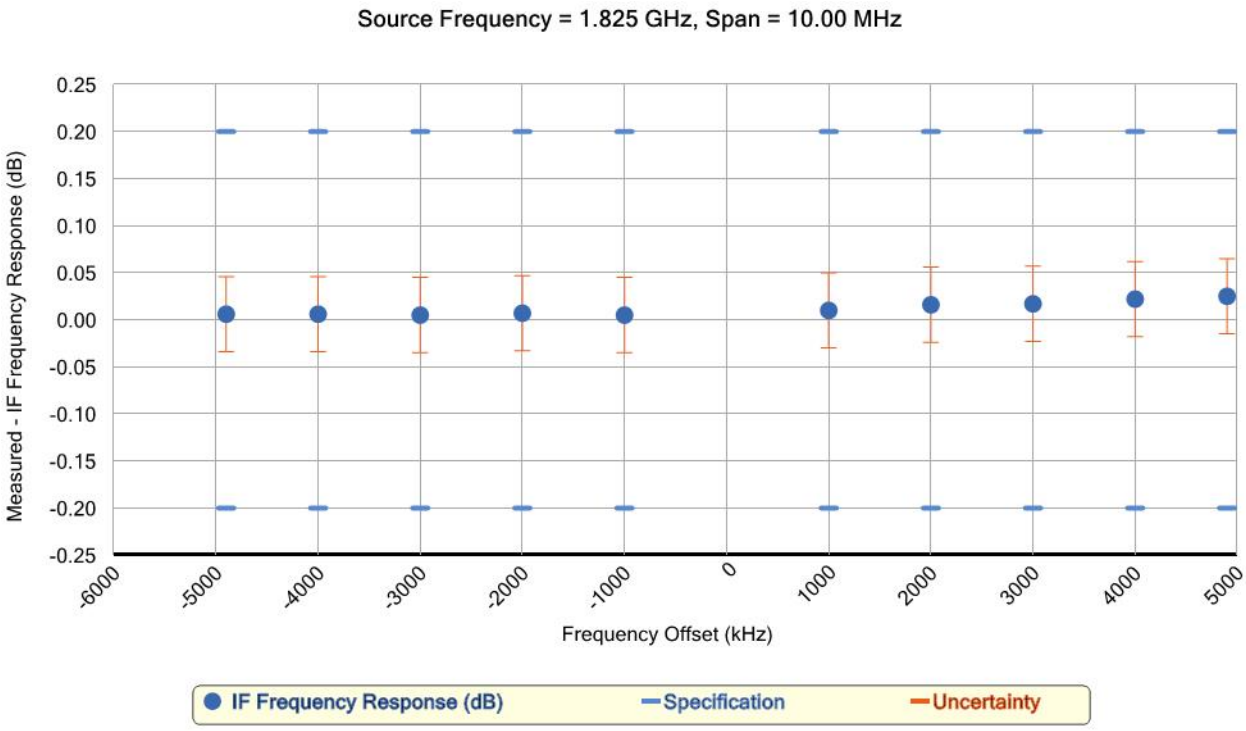
Center Frequency	Span	Resolution Bandwidth	Minimum	Measured	Maximum	Uncert.	Status
200.00 MHz	17.00 MHz	8.20 kHz	−0.105 %	0.006 %	0.105 %	0.0041 %	
350.00 MHz	680.00 MHz	68.00 kHz	−0.110 %	0.000 %	0.110 %	0.0082 %	
1377.50 MHz	1600.00 MHz	160.00 kHz	−0.110 %	0.000 %	0.110 %	0.0082 %	
1415.00 MHz	1570.00 MHz	160.00 kHz	−0.110 %	0.000 %	0.110 %	0.0082 %	
1805.00 MHz	3590.00 MHz	360.00 kHz	−0.110 %	0.000 %	0.110 %	0.0082 %	
2800.00 MHz	1600.00 MHz	160.00 kHz	−0.110 %	0.000 %	0.110 %	0.0082 %	
2838.75 MHz	1522.50 MHz	150.00 kHz	−0.110 %	0.000 %	0.110 %	0.0082 %	

Count Accuracy **Passed**

Frequency = 1.00 GHz

Center Frequency	Frequency Count	Minimum	Measured	Maximum	Uncertainty	Status
1.00 GHz	999999999.998 Hz	−0.10 Hz	−0.0022 Hz	0.10 Hz	0.0050 Hz	

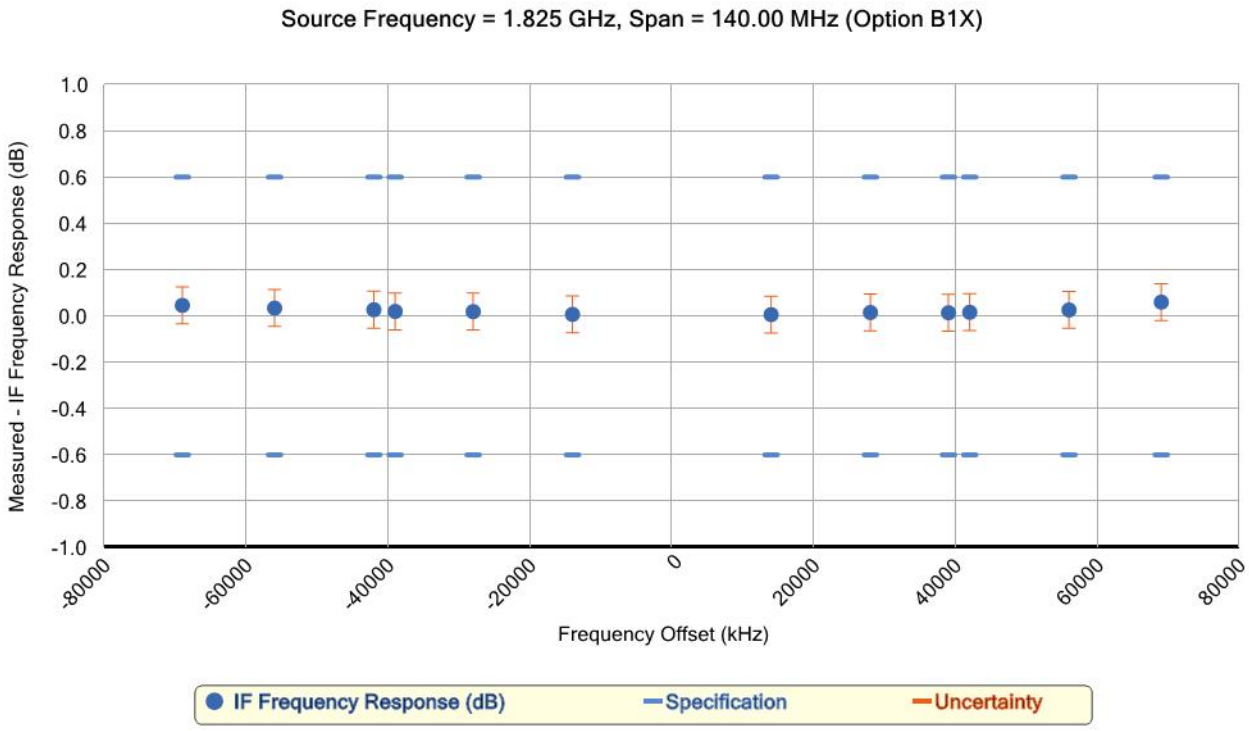
IF Frequency Response — Passed



Source Frequency = 1.825 GHz, Span = 10.00 MHz

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−4900.00 kHz	−0.20 dB	0.006 dB	0.20 dB	0.040 dB	
−4000.00 kHz	−0.20 dB	0.006 dB	0.20 dB	0.040 dB	
−3000.00 kHz	−0.20 dB	0.005 dB	0.20 dB	0.040 dB	
−2000.00 kHz	−0.20 dB	0.007 dB	0.20 dB	0.040 dB	
−1000.00 kHz	−0.20 dB	0.005 dB	0.20 dB	0.040 dB	
1000.00 kHz	−0.20 dB	0.010 dB	0.20 dB	0.040 dB	
2000.00 kHz	−0.20 dB	0.016 dB	0.20 dB	0.040 dB	
3000.00 kHz	−0.20 dB	0.017 dB	0.20 dB	0.040 dB	
4000.00 kHz	−0.20 dB	0.022 dB	0.20 dB	0.040 dB	
4900.00 kHz	−0.20 dB	0.025 dB	0.20 dB	0.040 dB	

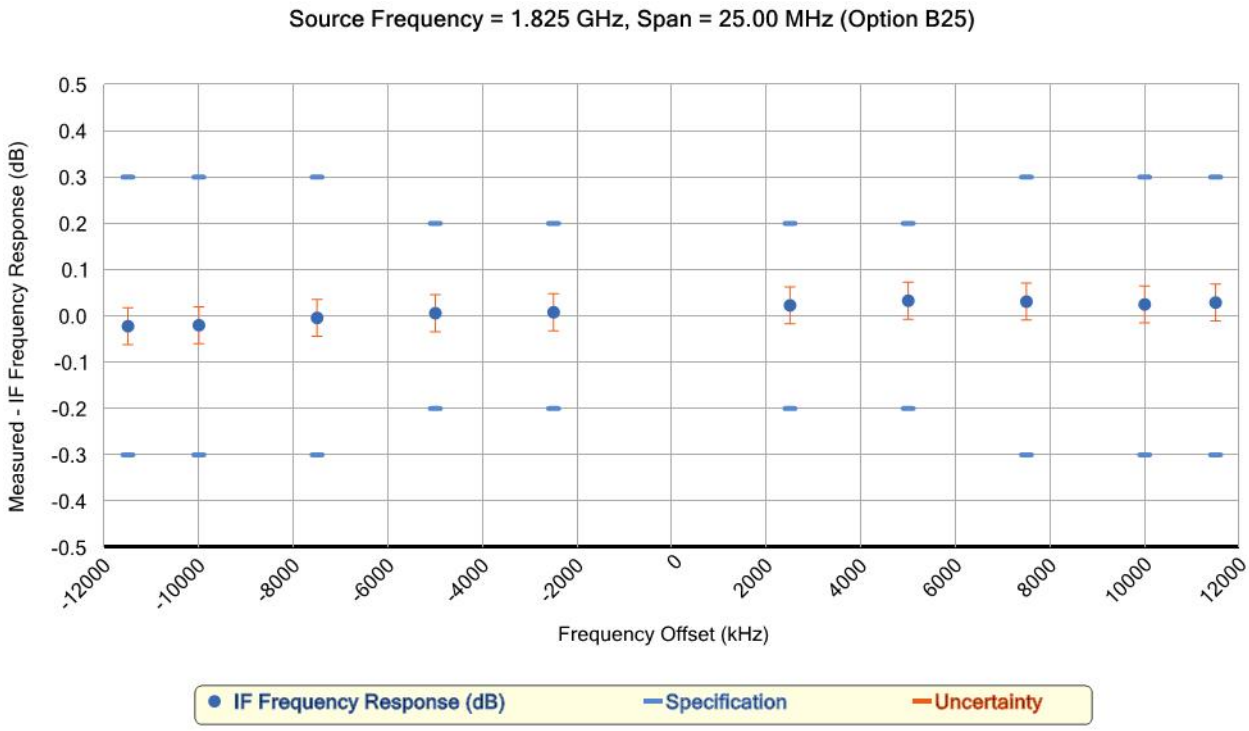
IF Frequency Response (cont.)



Source Frequency = 1.825 GHz, Span = 140.00 MHz (Option B1X)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−69000.00 kHz	−0.60 dB	0.046 dB	0.60 dB	0.080 dB	
−56000.00 kHz	−0.60 dB	0.034 dB	0.60 dB	0.080 dB	
−42000.00 kHz	−0.60 dB	0.027 dB	0.60 dB	0.080 dB	
−39000.00 kHz	−0.60 dB	0.020 dB	0.60 dB	0.080 dB	
−28000.00 kHz	−0.60 dB	0.019 dB	0.60 dB	0.080 dB	
−14000.00 kHz	−0.60 dB	0.007 dB	0.60 dB	0.080 dB	
14000.00 kHz	−0.60 dB	0.006 dB	0.60 dB	0.080 dB	
28000.00 kHz	−0.60 dB	0.015 dB	0.60 dB	0.080 dB	
39000.00 kHz	−0.60 dB	0.014 dB	0.60 dB	0.080 dB	
42000.00 kHz	−0.60 dB	0.016 dB	0.60 dB	0.080 dB	
56000.00 kHz	−0.60 dB	0.026 dB	0.60 dB	0.080 dB	
69000.00 kHz	−0.60 dB	0.060 dB	0.60 dB	0.080 dB	

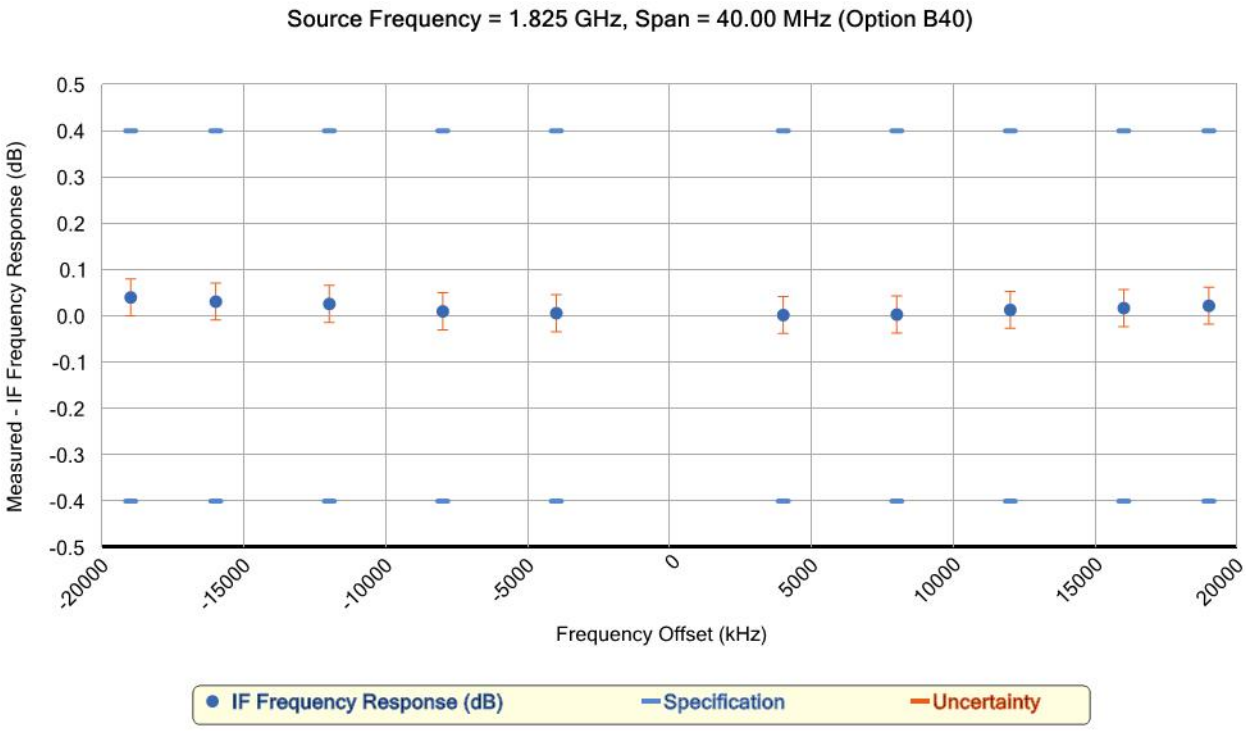
IF Frequency Response (cont.)



Source Frequency = 1.825 GHz, Span = 25.00 MHz (Option B25)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−11500.00 kHz	−0.30 dB	−0.022 dB	0.30 dB	0.040 dB	
−10000.00 kHz	−0.30 dB	−0.020 dB	0.30 dB	0.040 dB	
−7500.00 kHz	−0.30 dB	−0.004 dB	0.30 dB	0.040 dB	
−5000.00 kHz	−0.20 dB	0.006 dB	0.20 dB	0.040 dB	
−2500.00 kHz	−0.20 dB	0.008 dB	0.20 dB	0.040 dB	
2500.00 kHz	−0.20 dB	0.023 dB	0.20 dB	0.040 dB	
5000.00 kHz	−0.20 dB	0.033 dB	0.20 dB	0.040 dB	
7500.00 kHz	−0.30 dB	0.031 dB	0.30 dB	0.040 dB	
10000.00 kHz	−0.30 dB	0.025 dB	0.30 dB	0.040 dB	
11500.00 kHz	−0.30 dB	0.029 dB	0.30 dB	0.040 dB	

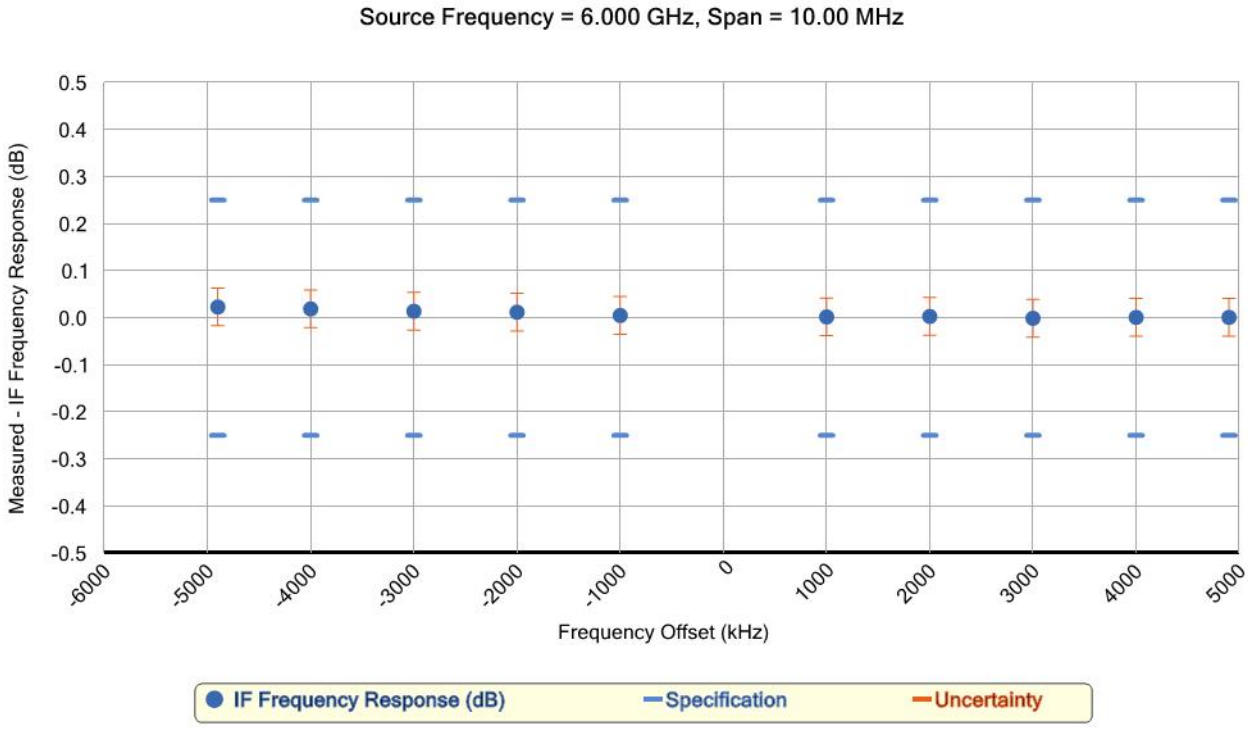
IF Frequency Response (cont.)



Source Frequency = 1.825 GHz, Span = 40.00 MHz (Option B40)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−19000.00 kHz	−0.40 dB	0.040 dB	0.40 dB	0.040 dB	
−16000.00 kHz	−0.40 dB	0.031 dB	0.40 dB	0.040 dB	
−12000.00 kHz	−0.40 dB	0.026 dB	0.40 dB	0.040 dB	
−8000.00 kHz	−0.40 dB	0.010 dB	0.40 dB	0.040 dB	
−4000.00 kHz	−0.40 dB	0.006 dB	0.40 dB	0.040 dB	
4000.00 kHz	−0.40 dB	0.002 dB	0.40 dB	0.040 dB	
8000.00 kHz	−0.40 dB	0.003 dB	0.40 dB	0.040 dB	
12000.00 kHz	−0.40 dB	0.013 dB	0.40 dB	0.040 dB	
16000.00 kHz	−0.40 dB	0.017 dB	0.40 dB	0.040 dB	
19000.00 kHz	−0.40 dB	0.022 dB	0.40 dB	0.040 dB	

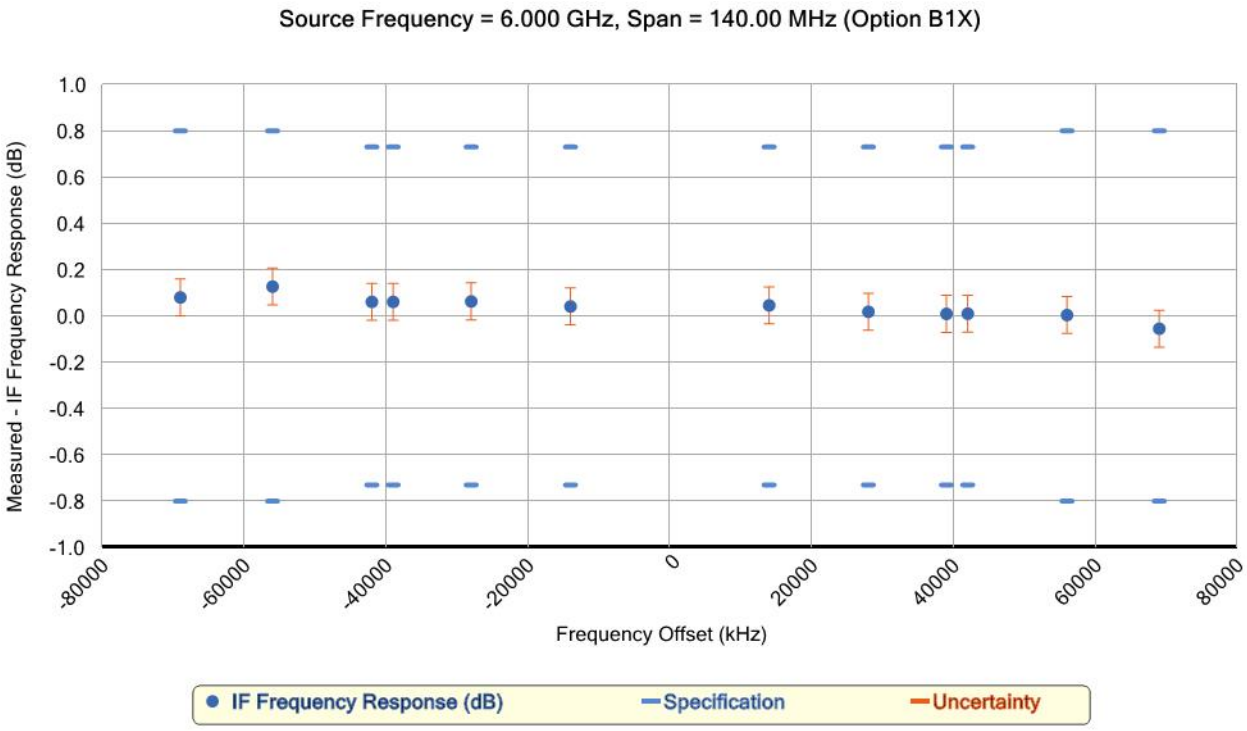
IF Frequency Response (cont.)



Source Frequency = 6.000 GHz, Span = 10.00 MHz

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−4900.00 kHz	−0.25 dB	0.023 dB	0.25 dB	0.040 dB	
−4000.00 kHz	−0.25 dB	0.019 dB	0.25 dB	0.040 dB	
−3000.00 kHz	−0.25 dB	0.014 dB	0.25 dB	0.040 dB	
−2000.00 kHz	−0.25 dB	0.012 dB	0.25 dB	0.040 dB	
−1000.00 kHz	−0.25 dB	0.005 dB	0.25 dB	0.040 dB	
1000.00 kHz	−0.25 dB	0.002 dB	0.25 dB	0.040 dB	
2000.00 kHz	−0.25 dB	0.003 dB	0.25 dB	0.040 dB	
3000.00 kHz	−0.25 dB	−0.001 dB	0.25 dB	0.040 dB	
4000.00 kHz	−0.25 dB	0.001 dB	0.25 dB	0.040 dB	
4900.00 kHz	−0.25 dB	0.001 dB	0.25 dB	0.040 dB	

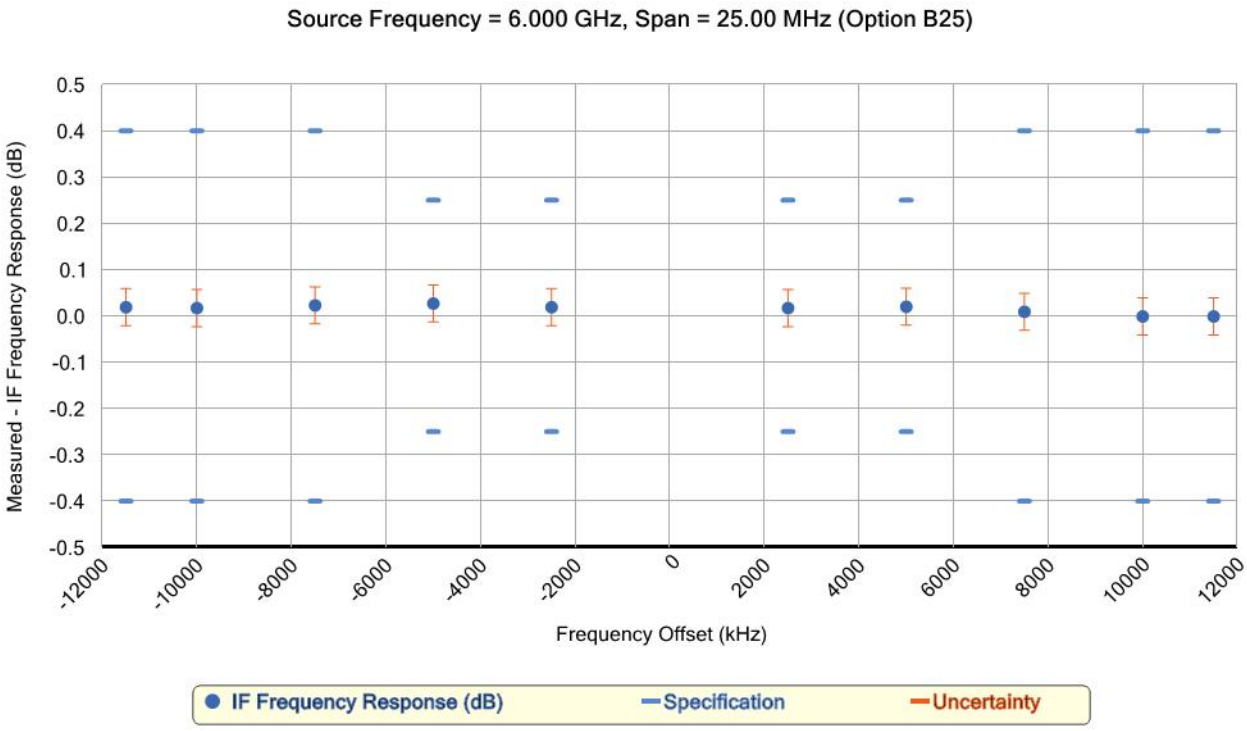
IF Frequency Response (cont.)



Source Frequency = 6.000 GHz, Span = 140.00 MHz (Option B1X)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−69000.00 kHz	−0.80 dB	0.080 dB	0.80 dB	0.080 dB	
−56000.00 kHz	−0.80 dB	0.127 dB	0.80 dB	0.080 dB	
−42000.00 kHz	−0.73 dB	0.061 dB	0.73 dB	0.080 dB	
−39000.00 kHz	−0.73 dB	0.061 dB	0.73 dB	0.080 dB	
−28000.00 kHz	−0.73 dB	0.063 dB	0.73 dB	0.080 dB	
−14000.00 kHz	−0.73 dB	0.041 dB	0.73 dB	0.080 dB	
14000.00 kHz	−0.73 dB	0.046 dB	0.73 dB	0.080 dB	
28000.00 kHz	−0.73 dB	0.018 dB	0.73 dB	0.080 dB	
39000.00 kHz	−0.73 dB	0.009 dB	0.73 dB	0.080 dB	
42000.00 kHz	−0.73 dB	0.010 dB	0.73 dB	0.080 dB	
56000.00 kHz	−0.80 dB	0.004 dB	0.80 dB	0.080 dB	
69000.00 kHz	−0.80 dB	−0.055 dB	0.80 dB	0.080 dB	

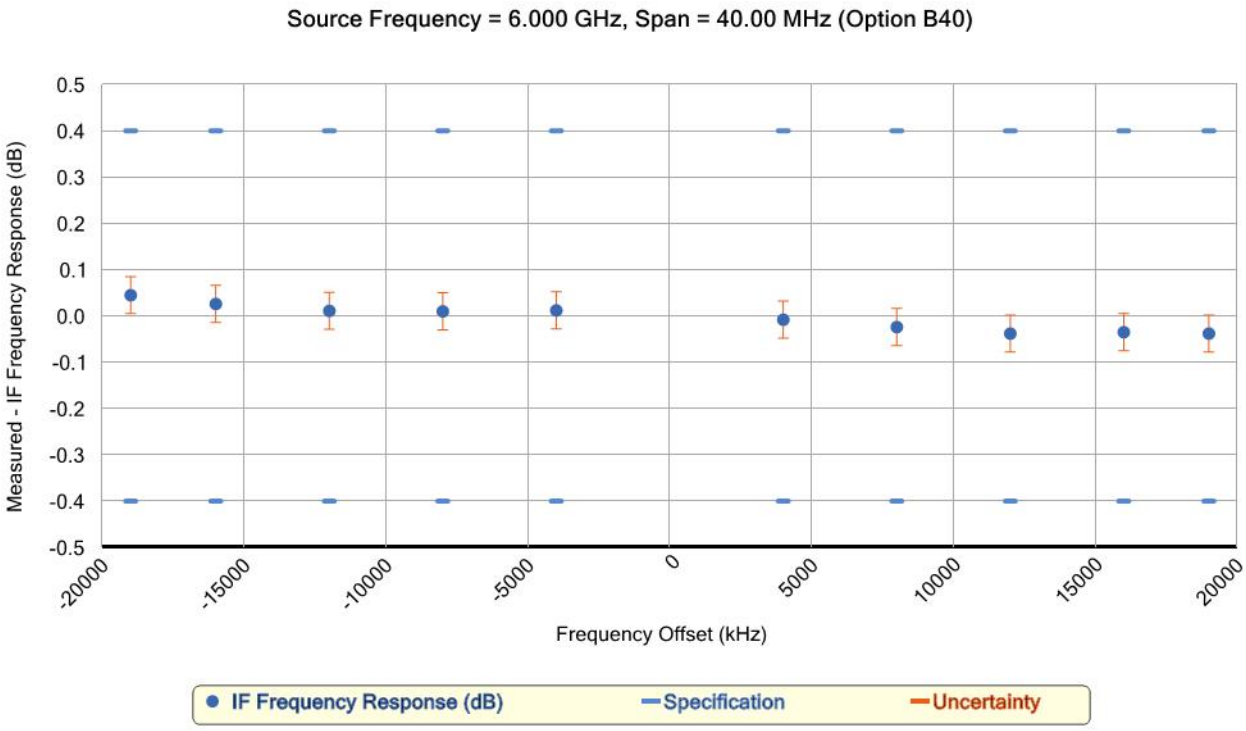
IF Frequency Response (cont.)



Source Frequency = 6.000 GHz, Span = 25.00 MHz (Option B25)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−11500.00 kHz	−0.40 dB	0.019 dB	0.40 dB	0.040 dB	
−10000.00 kHz	−0.40 dB	0.017 dB	0.40 dB	0.040 dB	
−7500.00 kHz	−0.40 dB	0.023 dB	0.40 dB	0.040 dB	
−5000.00 kHz	−0.25 dB	0.027 dB	0.25 dB	0.040 dB	
−2500.00 kHz	−0.25 dB	0.019 dB	0.25 dB	0.040 dB	
2500.00 kHz	−0.25 dB	0.017 dB	0.25 dB	0.040 dB	
5000.00 kHz	−0.25 dB	0.020 dB	0.25 dB	0.040 dB	
7500.00 kHz	−0.40 dB	0.009 dB	0.40 dB	0.040 dB	
10000.00 kHz	−0.40 dB	−0.001 dB	0.40 dB	0.040 dB	
11500.00 kHz	−0.40 dB	−0.001 dB	0.40 dB	0.040 dB	

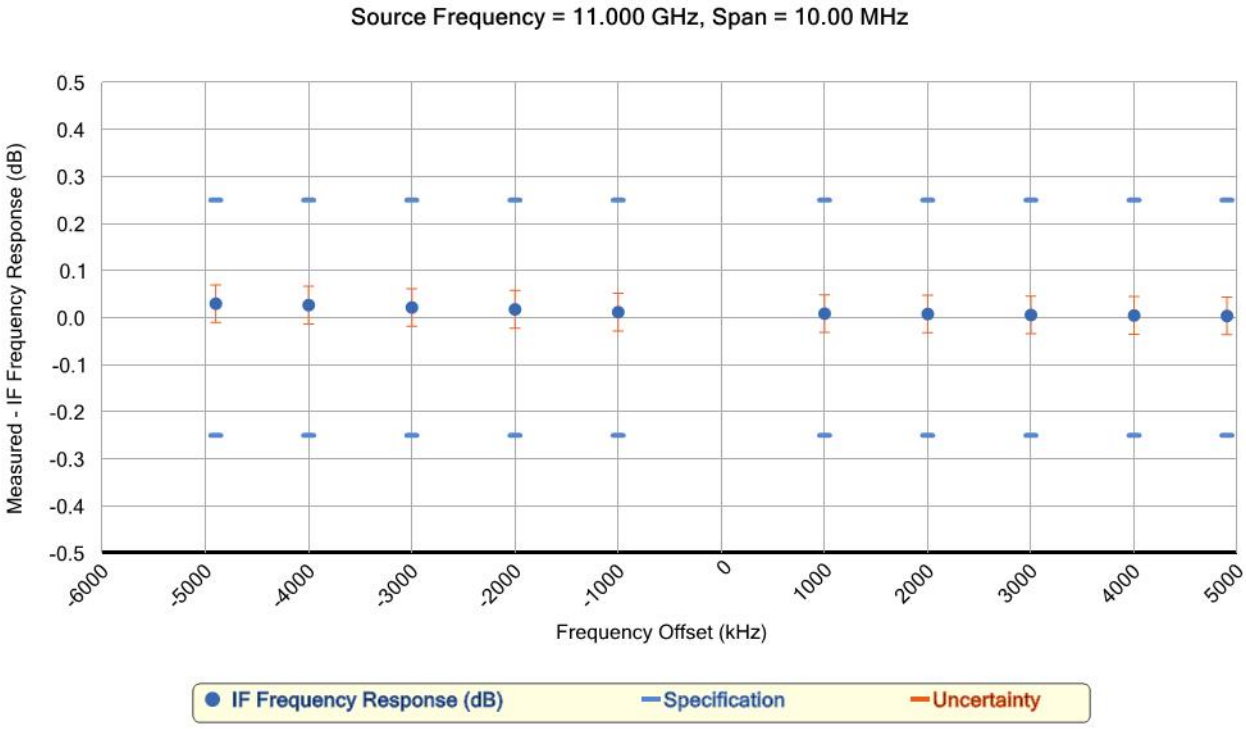
IF Frequency Response (cont.)



Source Frequency = 6.000 GHz, Span = 40.00 MHz (Option B40)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−19000.00 kHz	−0.40 dB	0.045 dB	0.40 dB	0.040 dB	
−16000.00 kHz	−0.40 dB	0.026 dB	0.40 dB	0.040 dB	
−12000.00 kHz	−0.40 dB	0.011 dB	0.40 dB	0.040 dB	
−8000.00 kHz	−0.40 dB	0.010 dB	0.40 dB	0.040 dB	
−4000.00 kHz	−0.40 dB	0.012 dB	0.40 dB	0.040 dB	
4000.00 kHz	−0.40 dB	−0.008 dB	0.40 dB	0.040 dB	
8000.00 kHz	−0.40 dB	−0.024 dB	0.40 dB	0.040 dB	
12000.00 kHz	−0.40 dB	−0.038 dB	0.40 dB	0.040 dB	
16000.00 kHz	−0.40 dB	−0.035 dB	0.40 dB	0.040 dB	
19000.00 kHz	−0.40 dB	−0.038 dB	0.40 dB	0.040 dB	

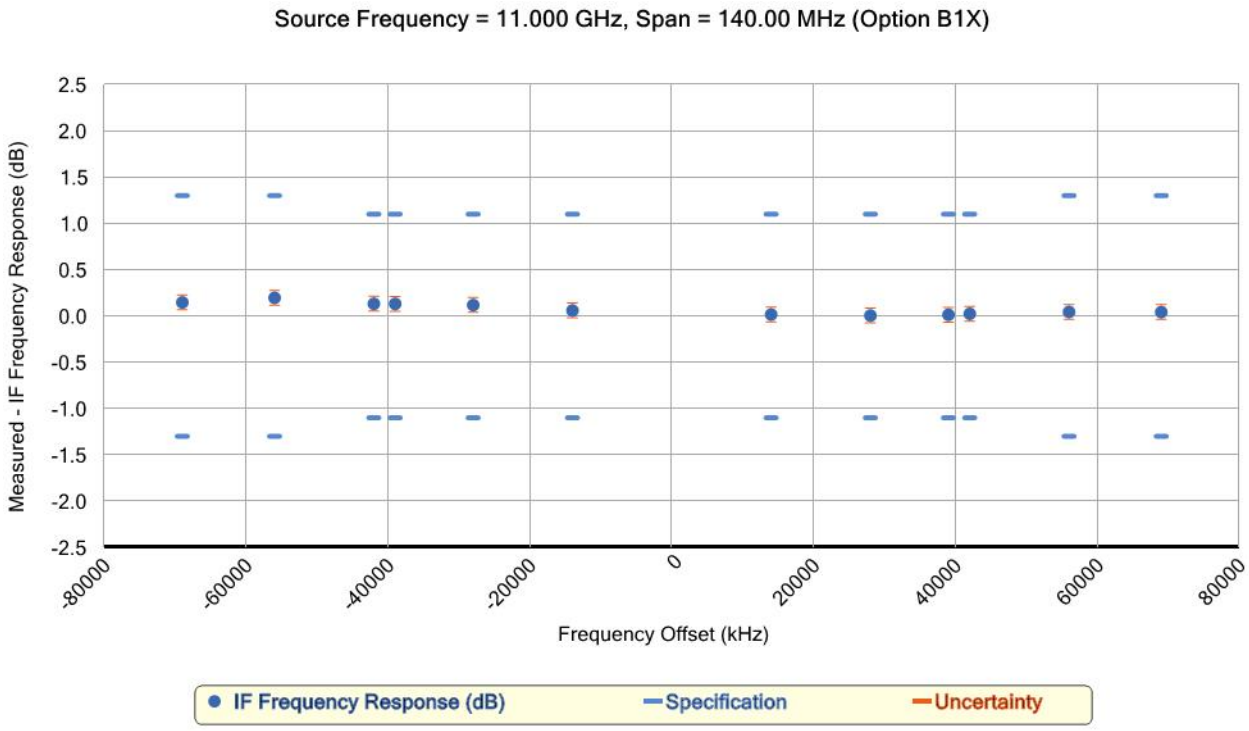
IF Frequency Response (cont.)



Source Frequency = 11.000 GHz, Span = 10.00 MHz

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−4900.00 kHz	−0.25 dB	0.030 dB	0.25 dB	0.040 dB	
−4000.00 kHz	−0.25 dB	0.027 dB	0.25 dB	0.040 dB	
−3000.00 kHz	−0.25 dB	0.022 dB	0.25 dB	0.040 dB	
−2000.00 kHz	−0.25 dB	0.018 dB	0.25 dB	0.040 dB	
−1000.00 kHz	−0.25 dB	0.012 dB	0.25 dB	0.040 dB	
1000.00 kHz	−0.25 dB	0.009 dB	0.25 dB	0.040 dB	
2000.00 kHz	−0.25 dB	0.008 dB	0.25 dB	0.040 dB	
3000.00 kHz	−0.25 dB	0.006 dB	0.25 dB	0.040 dB	
4000.00 kHz	−0.25 dB	0.005 dB	0.25 dB	0.040 dB	
4900.00 kHz	−0.25 dB	0.004 dB	0.25 dB	0.040 dB	

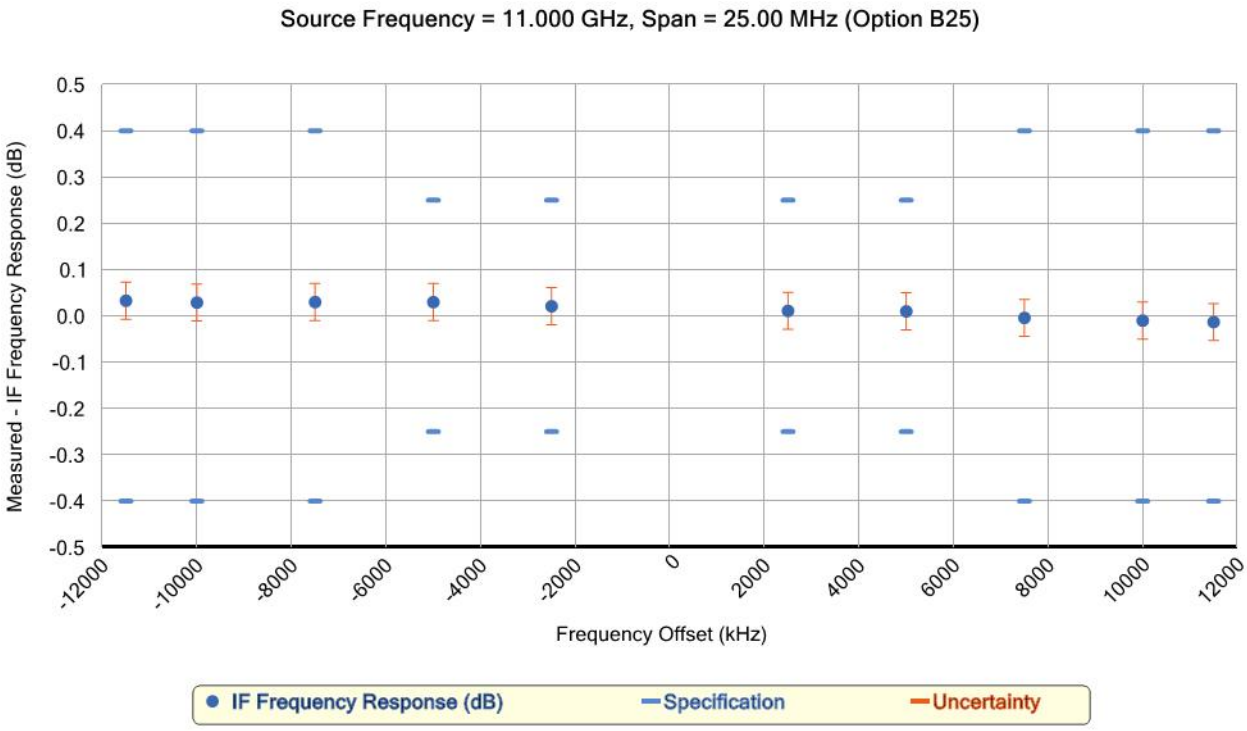
IF Frequency Response (cont.)



Source Frequency = 11.000 GHz, Span = 140.00 MHz (Option B1X)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−69000.00 kHz	−1.30 dB	0.147 dB	1.30 dB	0.080 dB	
−56000.00 kHz	−1.30 dB	0.196 dB	1.30 dB	0.080 dB	
−42000.00 kHz	−1.10 dB	0.132 dB	1.10 dB	0.080 dB	
−39000.00 kHz	−1.10 dB	0.131 dB	1.10 dB	0.080 dB	
−28000.00 kHz	−1.10 dB	0.118 dB	1.10 dB	0.080 dB	
−14000.00 kHz	−1.10 dB	0.059 dB	1.10 dB	0.080 dB	
14000.00 kHz	−1.10 dB	0.016 dB	1.10 dB	0.080 dB	
28000.00 kHz	−1.10 dB	0.005 dB	1.10 dB	0.080 dB	
39000.00 kHz	−1.10 dB	0.013 dB	1.10 dB	0.080 dB	
42000.00 kHz	−1.10 dB	0.024 dB	1.10 dB	0.080 dB	
56000.00 kHz	−1.30 dB	0.044 dB	1.30 dB	0.080 dB	
69000.00 kHz	−1.30 dB	0.042 dB	1.30 dB	0.080 dB	

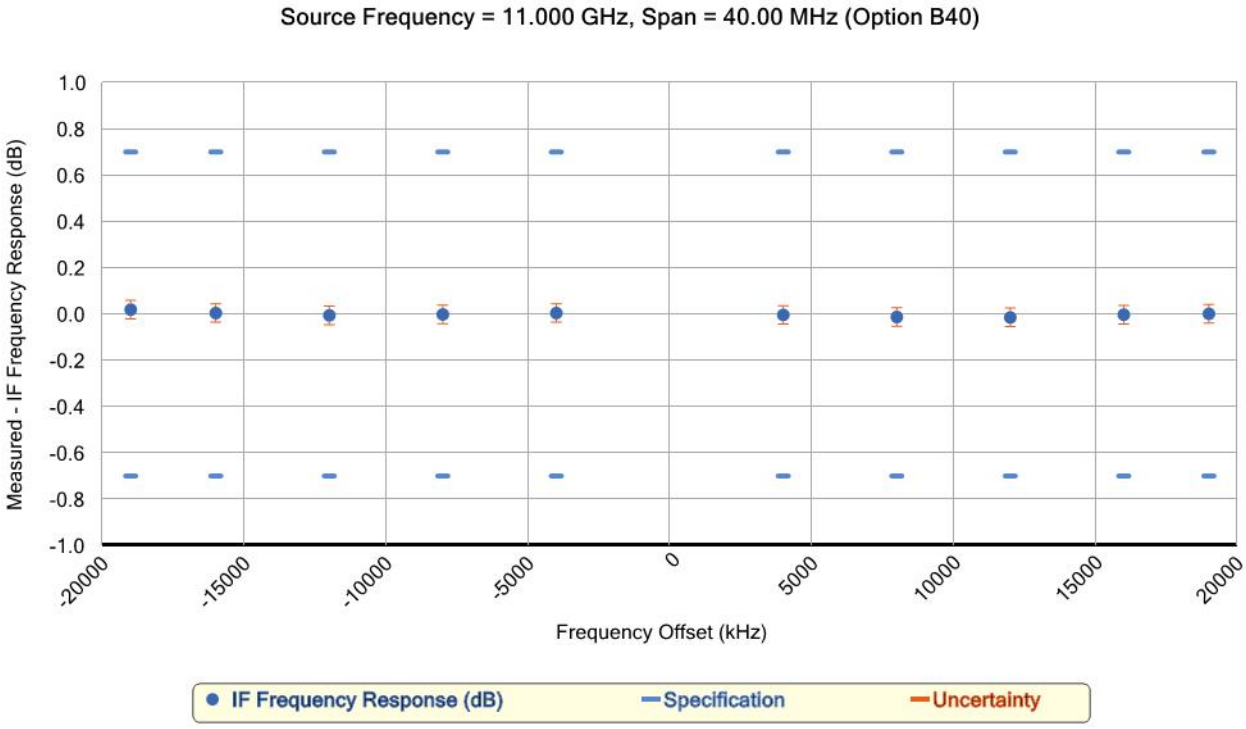
IF Frequency Response (cont.)



Source Frequency = 11.000 GHz, Span = 25.00 MHz (Option B25)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−11500.00 kHz	−0.40 dB	0.033 dB	0.40 dB	0.040 dB	
−10000.00 kHz	−0.40 dB	0.029 dB	0.40 dB	0.040 dB	
−7500.00 kHz	−0.40 dB	0.030 dB	0.40 dB	0.040 dB	
−5000.00 kHz	−0.25 dB	0.030 dB	0.25 dB	0.040 dB	
−2500.00 kHz	−0.25 dB	0.021 dB	0.25 dB	0.040 dB	
2500.00 kHz	−0.25 dB	0.011 dB	0.25 dB	0.040 dB	
5000.00 kHz	−0.25 dB	0.010 dB	0.25 dB	0.040 dB	
7500.00 kHz	−0.40 dB	−0.004 dB	0.40 dB	0.040 dB	
10000.00 kHz	−0.40 dB	−0.010 dB	0.40 dB	0.040 dB	
11500.00 kHz	−0.40 dB	−0.013 dB	0.40 dB	0.040 dB	

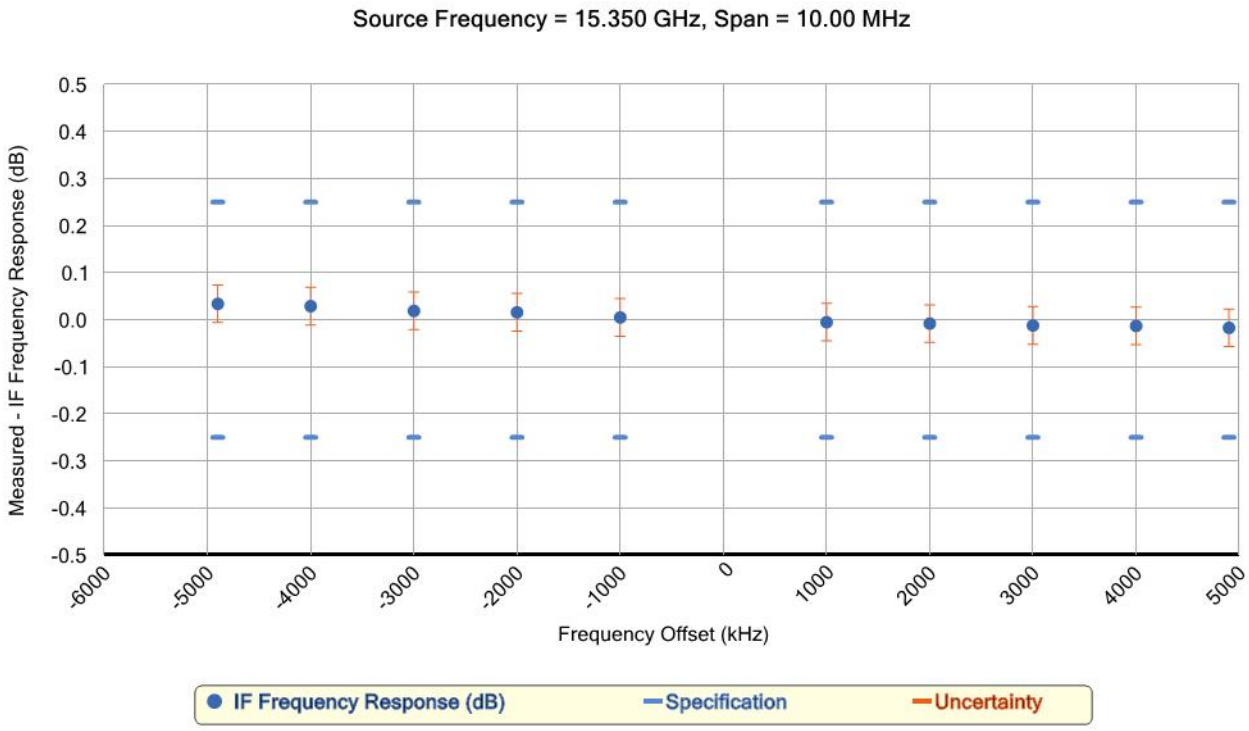
IF Frequency Response (cont.)



Source Frequency = 11.000 GHz, Span = 40.00 MHz (Option B40)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−19000.00 kHz	−0.70 dB	0.019 dB	0.70 dB	0.040 dB	
−16000.00 kHz	−0.70 dB	0.004 dB	0.70 dB	0.040 dB	
−12000.00 kHz	−0.70 dB	−0.006 dB	0.70 dB	0.040 dB	
−8000.00 kHz	−0.70 dB	−0.002 dB	0.70 dB	0.040 dB	
−4000.00 kHz	−0.70 dB	0.004 dB	0.70 dB	0.040 dB	
4000.00 kHz	−0.70 dB	−0.004 dB	0.70 dB	0.040 dB	
8000.00 kHz	−0.70 dB	−0.013 dB	0.70 dB	0.040 dB	
12000.00 kHz	−0.70 dB	−0.015 dB	0.70 dB	0.040 dB	
16000.00 kHz	−0.70 dB	−0.003 dB	0.70 dB	0.040 dB	
19000.00 kHz	−0.70 dB	0.001 dB	0.70 dB	0.040 dB	

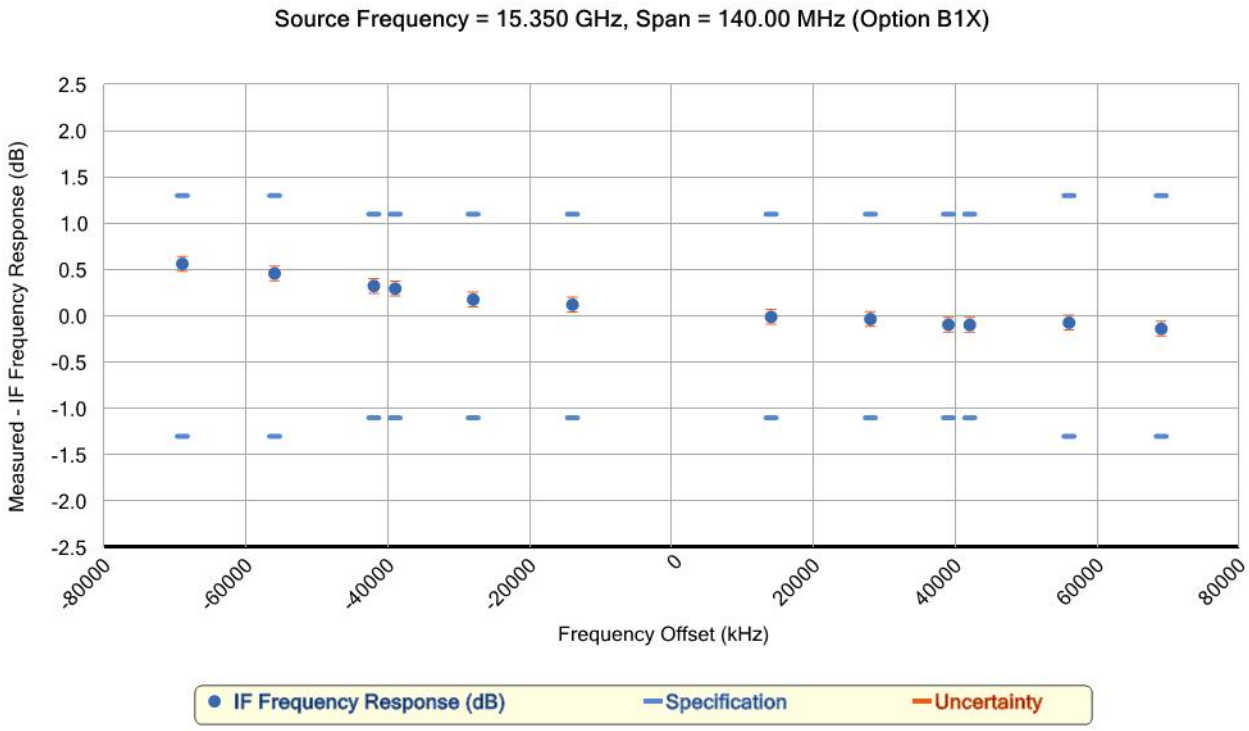
IF Frequency Response (cont.)



Source Frequency = 15.350 GHz, Span = 10.00 MHz

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−4900.00 kHz	−0.25 dB	0.034 dB	0.25 dB	0.040 dB	
−4000.00 kHz	−0.25 dB	0.029 dB	0.25 dB	0.040 dB	
−3000.00 kHz	−0.25 dB	0.019 dB	0.25 dB	0.040 dB	
−2000.00 kHz	−0.25 dB	0.016 dB	0.25 dB	0.040 dB	
−1000.00 kHz	−0.25 dB	0.005 dB	0.25 dB	0.040 dB	
1000.00 kHz	−0.25 dB	−0.005 dB	0.25 dB	0.040 dB	
2000.00 kHz	−0.25 dB	−0.008 dB	0.25 dB	0.040 dB	
3000.00 kHz	−0.25 dB	−0.012 dB	0.25 dB	0.040 dB	
4000.00 kHz	−0.25 dB	−0.013 dB	0.25 dB	0.040 dB	
4900.00 kHz	−0.25 dB	−0.017 dB	0.25 dB	0.040 dB	

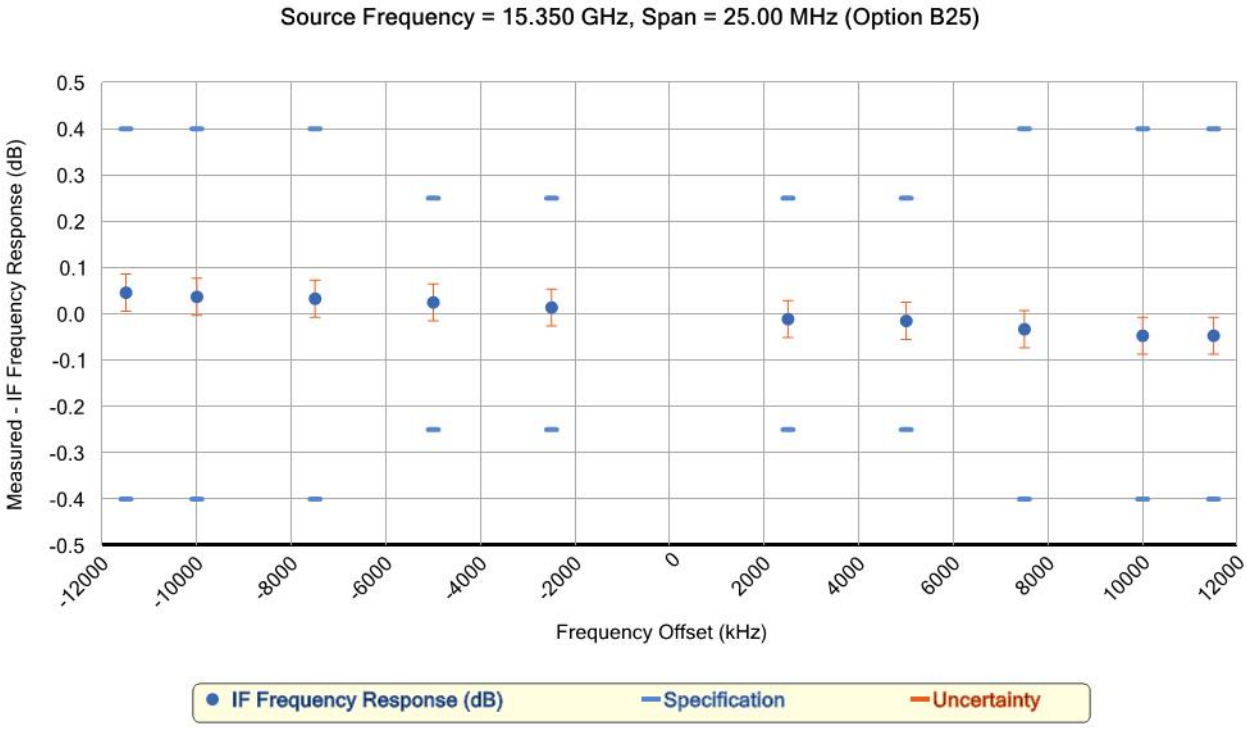
IF Frequency Response (cont.)



Source Frequency = 15.350 GHz, Span = 140.00 MHz (Option B1X)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−69000.00 kHz	−1.30 dB	0.563 dB	1.30 dB	0.080 dB	
−56000.00 kHz	−1.30 dB	0.459 dB	1.30 dB	0.080 dB	
−42000.00 kHz	−1.10 dB	0.325 dB	1.10 dB	0.080 dB	
−39000.00 kHz	−1.10 dB	0.296 dB	1.10 dB	0.080 dB	
−28000.00 kHz	−1.10 dB	0.177 dB	1.10 dB	0.080 dB	
−14000.00 kHz	−1.10 dB	0.122 dB	1.10 dB	0.080 dB	
14000.00 kHz	−1.10 dB	−0.010 dB	1.10 dB	0.080 dB	
28000.00 kHz	−1.10 dB	−0.033 dB	1.10 dB	0.080 dB	
39000.00 kHz	−1.10 dB	−0.094 dB	1.10 dB	0.080 dB	
42000.00 kHz	−1.10 dB	−0.096 dB	1.10 dB	0.080 dB	
56000.00 kHz	−1.30 dB	−0.072 dB	1.30 dB	0.080 dB	
69000.00 kHz	−1.30 dB	−0.138 dB	1.30 dB	0.080 dB	

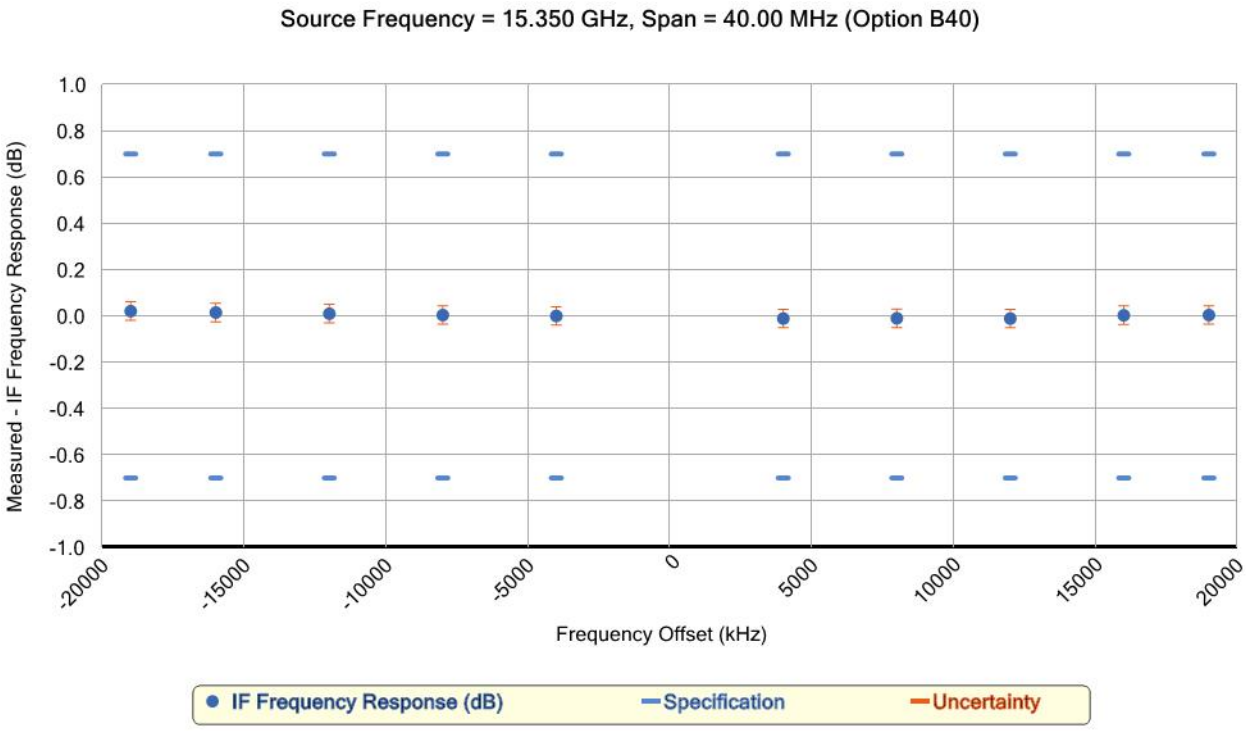
IF Frequency Response (cont.)



Source Frequency = 15.350 GHz, Span = 25.00 MHz (Option B25)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−11500.00 kHz	−0.40 dB	0.046 dB	0.40 dB	0.040 dB	
−10000.00 kHz	−0.40 dB	0.037 dB	0.40 dB	0.040 dB	
−7500.00 kHz	−0.40 dB	0.033 dB	0.40 dB	0.040 dB	
−5000.00 kHz	−0.25 dB	0.025 dB	0.25 dB	0.040 dB	
−2500.00 kHz	−0.25 dB	0.014 dB	0.25 dB	0.040 dB	
2500.00 kHz	−0.25 dB	−0.011 dB	0.25 dB	0.040 dB	
5000.00 kHz	−0.25 dB	−0.015 dB	0.25 dB	0.040 dB	
7500.00 kHz	−0.40 dB	−0.033 dB	0.40 dB	0.040 dB	
10000.00 kHz	−0.40 dB	−0.047 dB	0.40 dB	0.040 dB	
11500.00 kHz	−0.40 dB	−0.047 dB	0.40 dB	0.040 dB	

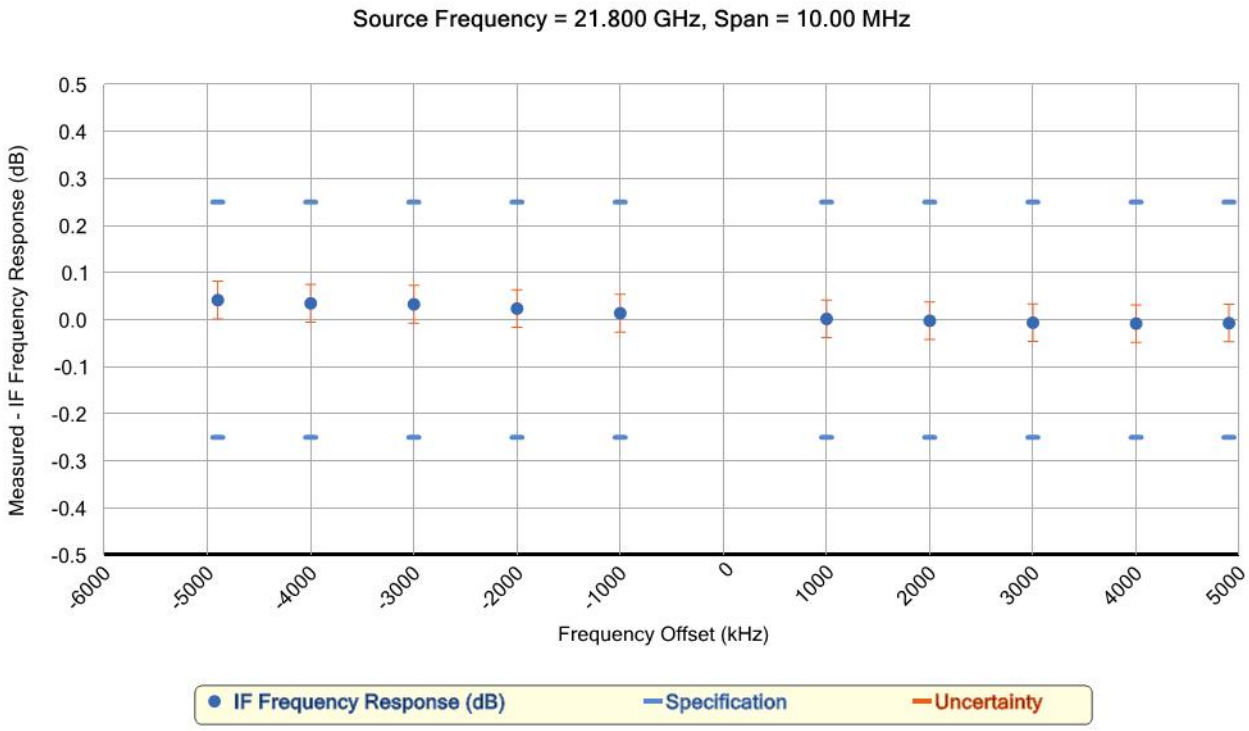
IF Frequency Response (cont.)



Source Frequency = 15.350 GHz, Span = 40.00 MHz (Option B40)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−19000.00 kHz	−0.70 dB	0.021 dB	0.70 dB	0.040 dB	
−16000.00 kHz	−0.70 dB	0.015 dB	0.70 dB	0.040 dB	
−12000.00 kHz	−0.70 dB	0.010 dB	0.70 dB	0.040 dB	
−8000.00 kHz	−0.70 dB	0.004 dB	0.70 dB	0.040 dB	
−4000.00 kHz	−0.70 dB	0.000 dB	0.70 dB	0.040 dB	
4000.00 kHz	−0.70 dB	−0.011 dB	0.70 dB	0.040 dB	
8000.00 kHz	−0.70 dB	−0.010 dB	0.70 dB	0.040 dB	
12000.00 kHz	−0.70 dB	−0.011 dB	0.70 dB	0.040 dB	
16000.00 kHz	−0.70 dB	0.003 dB	0.70 dB	0.040 dB	
19000.00 kHz	−0.70 dB	0.004 dB	0.70 dB	0.040 dB	

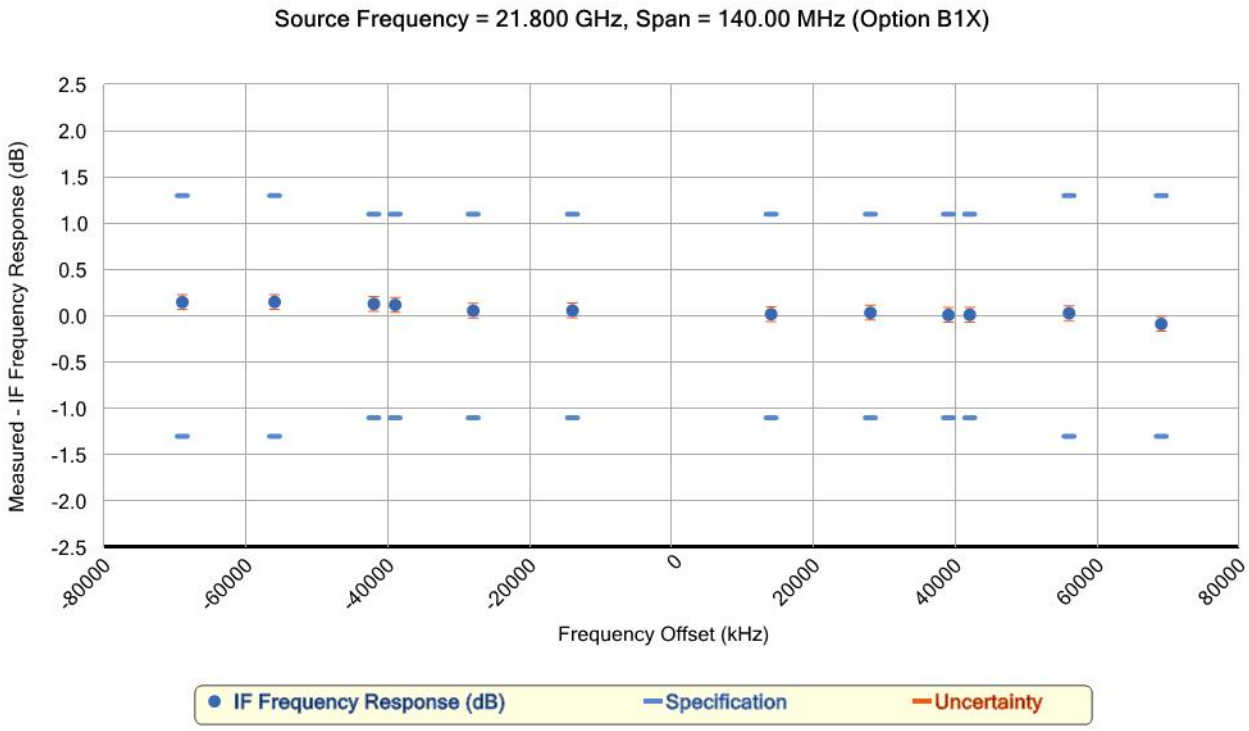
IF Frequency Response (cont.)



Source Frequency = 21.800 GHz, Span = 10.00 MHz

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−4900.00 kHz	−0.25 dB	0.042 dB	0.25 dB	0.040 dB	
−4000.00 kHz	−0.25 dB	0.035 dB	0.25 dB	0.040 dB	
−3000.00 kHz	−0.25 dB	0.033 dB	0.25 dB	0.040 dB	
−2000.00 kHz	−0.25 dB	0.024 dB	0.25 dB	0.040 dB	
−1000.00 kHz	−0.25 dB	0.014 dB	0.25 dB	0.040 dB	
1000.00 kHz	−0.25 dB	0.002 dB	0.25 dB	0.040 dB	
2000.00 kHz	−0.25 dB	−0.002 dB	0.25 dB	0.040 dB	
3000.00 kHz	−0.25 dB	−0.006 dB	0.25 dB	0.040 dB	
4000.00 kHz	−0.25 dB	−0.008 dB	0.25 dB	0.040 dB	
4900.00 kHz	−0.25 dB	−0.007 dB	0.25 dB	0.040 dB	

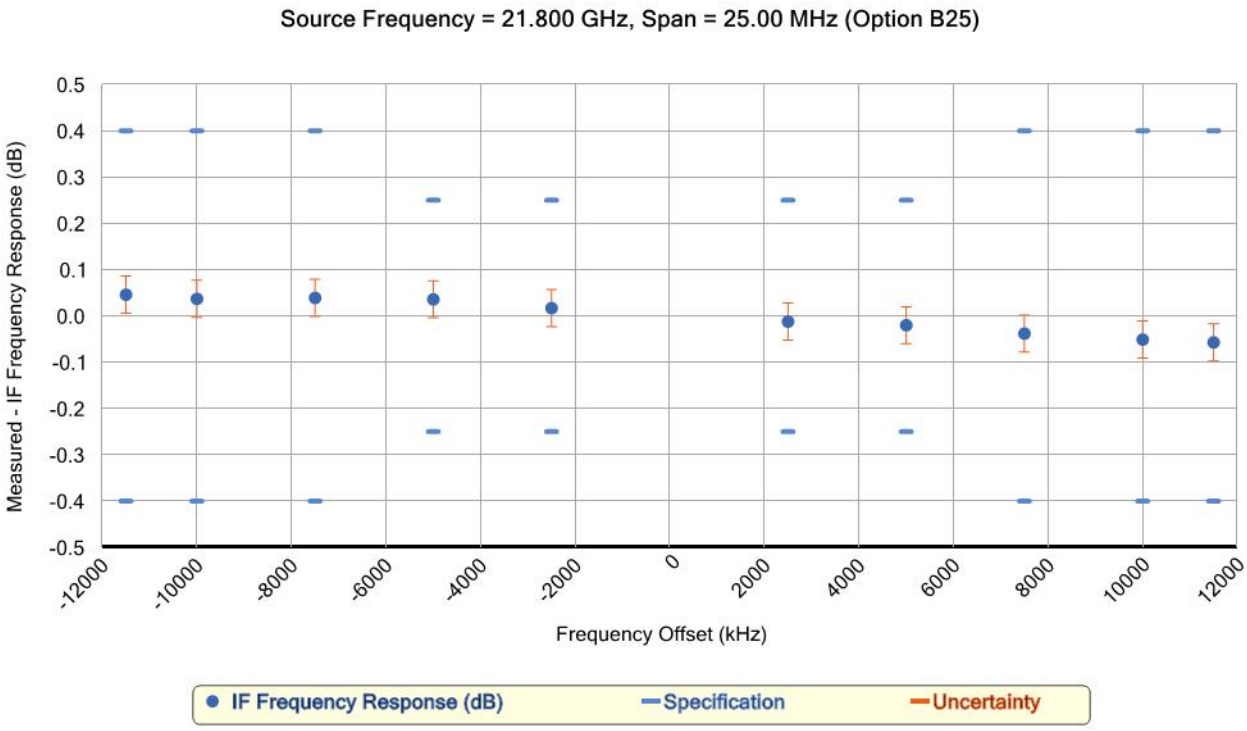
IF Frequency Response (cont.)



Source Frequency = 21.800 GHz, Span = 140.00 MHz (Option B1X)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−69000.00 kHz	−1.30 dB	0.150 dB	1.30 dB	0.080 dB	
−56000.00 kHz	−1.30 dB	0.152 dB	1.30 dB	0.080 dB	
−42000.00 kHz	−1.10 dB	0.131 dB	1.10 dB	0.080 dB	
−39000.00 kHz	−1.10 dB	0.120 dB	1.10 dB	0.080 dB	
−28000.00 kHz	−1.10 dB	0.057 dB	1.10 dB	0.080 dB	
−14000.00 kHz	−1.10 dB	0.059 dB	1.10 dB	0.080 dB	
14000.00 kHz	−1.10 dB	0.020 dB	1.10 dB	0.080 dB	
28000.00 kHz	−1.10 dB	0.035 dB	1.10 dB	0.080 dB	
39000.00 kHz	−1.10 dB	0.011 dB	1.10 dB	0.080 dB	
42000.00 kHz	−1.10 dB	0.013 dB	1.10 dB	0.080 dB	
56000.00 kHz	−1.30 dB	0.031 dB	1.30 dB	0.080 dB	
69000.00 kHz	−1.30 dB	−0.086 dB	1.30 dB	0.080 dB	

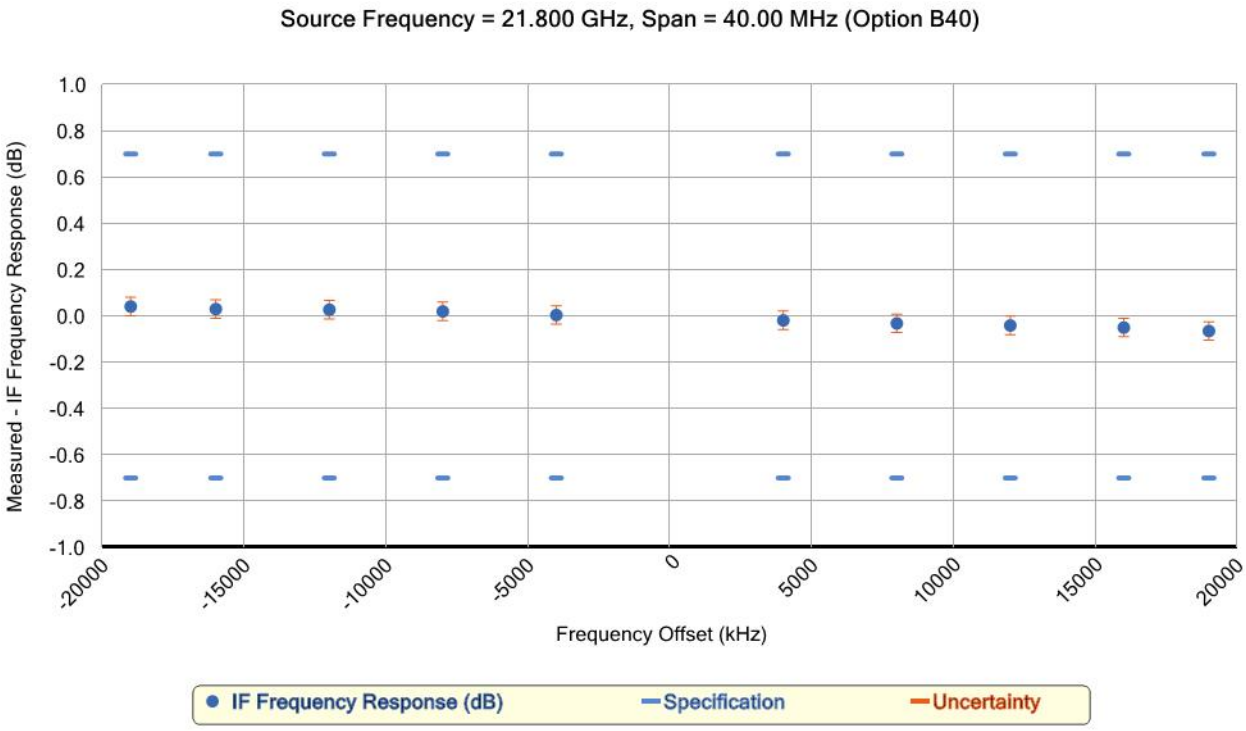
IF Frequency Response (cont.)



Source Frequency = 21.800 GHz, Span = 25.00 MHz (Option B25)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−11500.00 kHz	−0.40 dB	0.046 dB	0.40 dB	0.040 dB	
−10000.00 kHz	−0.40 dB	0.037 dB	0.40 dB	0.040 dB	
−7500.00 kHz	−0.40 dB	0.039 dB	0.40 dB	0.040 dB	
−5000.00 kHz	−0.25 dB	0.036 dB	0.25 dB	0.040 dB	
−2500.00 kHz	−0.25 dB	0.017 dB	0.25 dB	0.040 dB	
2500.00 kHz	−0.25 dB	−0.012 dB	0.25 dB	0.040 dB	
5000.00 kHz	−0.25 dB	−0.020 dB	0.25 dB	0.040 dB	
7500.00 kHz	−0.40 dB	−0.038 dB	0.40 dB	0.040 dB	
10000.00 kHz	−0.40 dB	−0.051 dB	0.40 dB	0.040 dB	
11500.00 kHz	−0.40 dB	−0.057 dB	0.40 dB	0.040 dB	

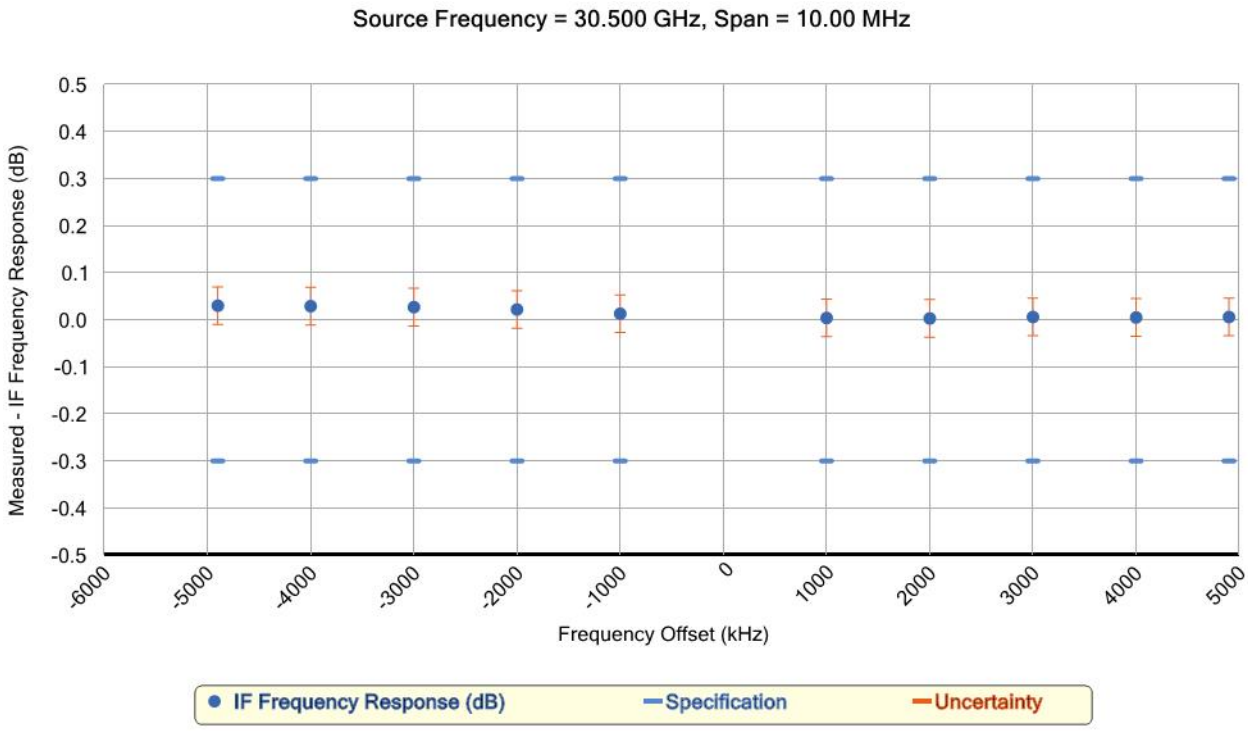
IF Frequency Response (cont.)



Source Frequency = 21.800 GHz, Span = 40.00 MHz (Option B40)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−19000.00 kHz	−0.70 dB	0.041 dB	0.70 dB	0.040 dB	
−16000.00 kHz	−0.70 dB	0.030 dB	0.70 dB	0.040 dB	
−12000.00 kHz	−0.70 dB	0.027 dB	0.70 dB	0.040 dB	
−8000.00 kHz	−0.70 dB	0.020 dB	0.70 dB	0.040 dB	
−4000.00 kHz	−0.70 dB	0.004 dB	0.70 dB	0.040 dB	
4000.00 kHz	−0.70 dB	−0.019 dB	0.70 dB	0.040 dB	
8000.00 kHz	−0.70 dB	−0.032 dB	0.70 dB	0.040 dB	
12000.00 kHz	−0.70 dB	−0.041 dB	0.70 dB	0.040 dB	
16000.00 kHz	−0.70 dB	−0.050 dB	0.70 dB	0.040 dB	
19000.00 kHz	−0.70 dB	−0.065 dB	0.70 dB	0.040 dB	

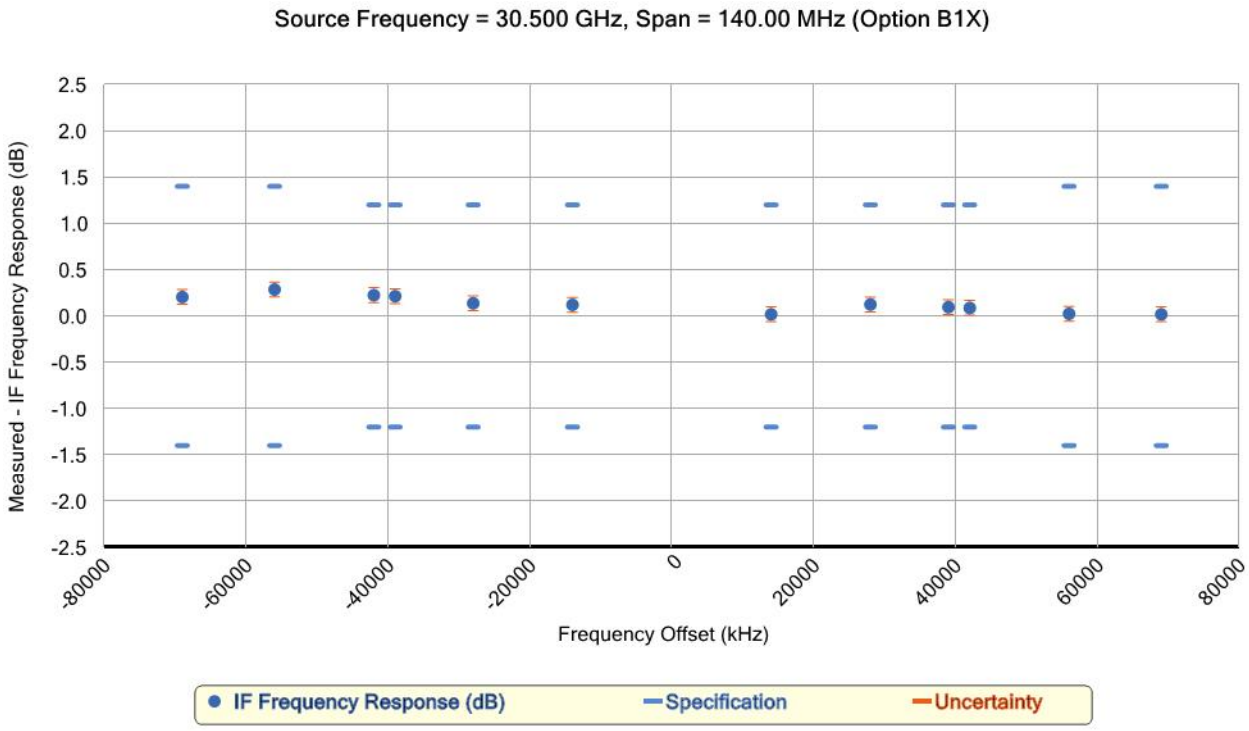
IF Frequency Response (cont.)



Source Frequency = 30.500 GHz, Span = 10.00 MHz

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−4900.00 kHz	−0.30 dB	0.030 dB	0.30 dB	0.040 dB	
−4000.00 kHz	−0.30 dB	0.029 dB	0.30 dB	0.040 dB	
−3000.00 kHz	−0.30 dB	0.027 dB	0.30 dB	0.040 dB	
−2000.00 kHz	−0.30 dB	0.022 dB	0.30 dB	0.040 dB	
−1000.00 kHz	−0.30 dB	0.013 dB	0.30 dB	0.040 dB	
1000.00 kHz	−0.30 dB	0.004 dB	0.30 dB	0.040 dB	
2000.00 kHz	−0.30 dB	0.003 dB	0.30 dB	0.040 dB	
3000.00 kHz	−0.30 dB	0.006 dB	0.30 dB	0.040 dB	
4000.00 kHz	−0.30 dB	0.005 dB	0.30 dB	0.040 dB	
4900.00 kHz	−0.30 dB	0.006 dB	0.30 dB	0.040 dB	

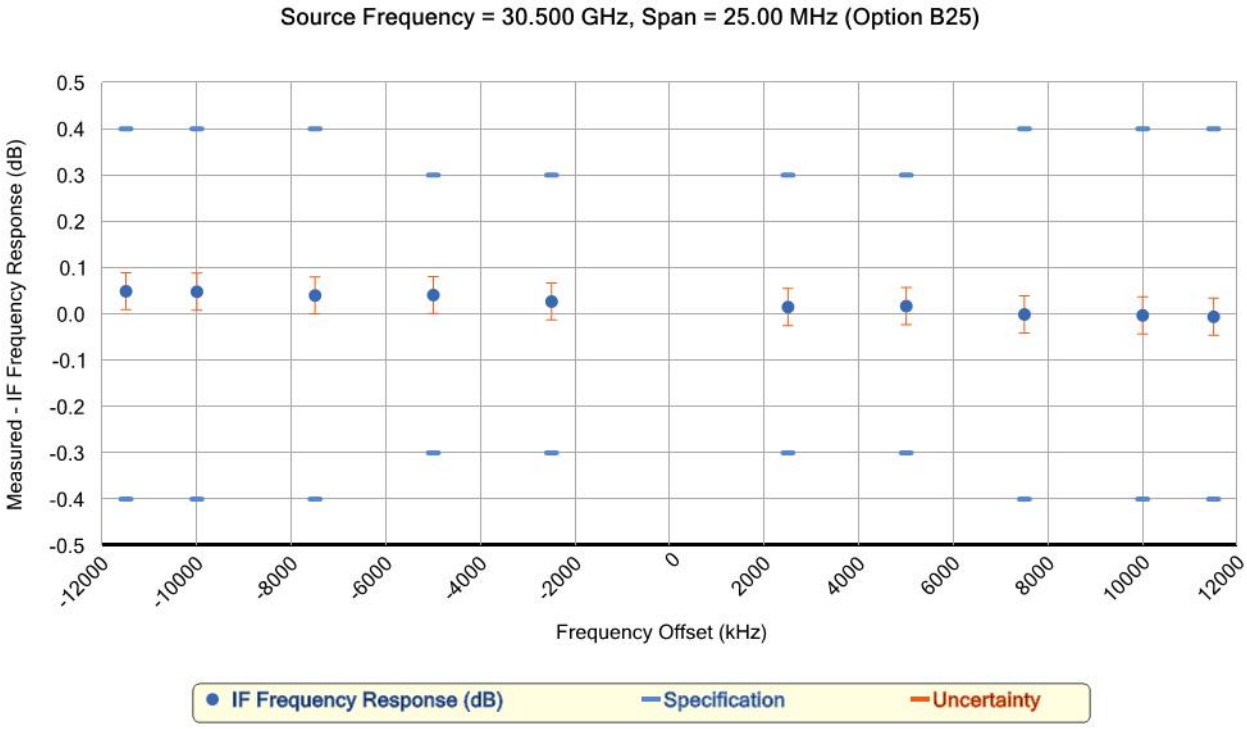
IF Frequency Response (cont.)



Source Frequency = 30.500 GHz, Span = 140.00 MHz (Option B1X)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−69000.00 kHz	−1.40 dB	0.205 dB	1.40 dB	0.080 dB	
−56000.00 kHz	−1.40 dB	0.286 dB	1.40 dB	0.080 dB	
−42000.00 kHz	−1.20 dB	0.225 dB	1.20 dB	0.080 dB	
−39000.00 kHz	−1.20 dB	0.214 dB	1.20 dB	0.080 dB	
−28000.00 kHz	−1.20 dB	0.137 dB	1.20 dB	0.080 dB	
−14000.00 kHz	−1.20 dB	0.121 dB	1.20 dB	0.080 dB	
14000.00 kHz	−1.20 dB	0.018 dB	1.20 dB	0.080 dB	
28000.00 kHz	−1.20 dB	0.124 dB	1.20 dB	0.080 dB	
39000.00 kHz	−1.20 dB	0.096 dB	1.20 dB	0.080 dB	
42000.00 kHz	−1.20 dB	0.087 dB	1.20 dB	0.080 dB	
56000.00 kHz	−1.40 dB	0.024 dB	1.40 dB	0.080 dB	
69000.00 kHz	−1.40 dB	0.018 dB	1.40 dB	0.080 dB	

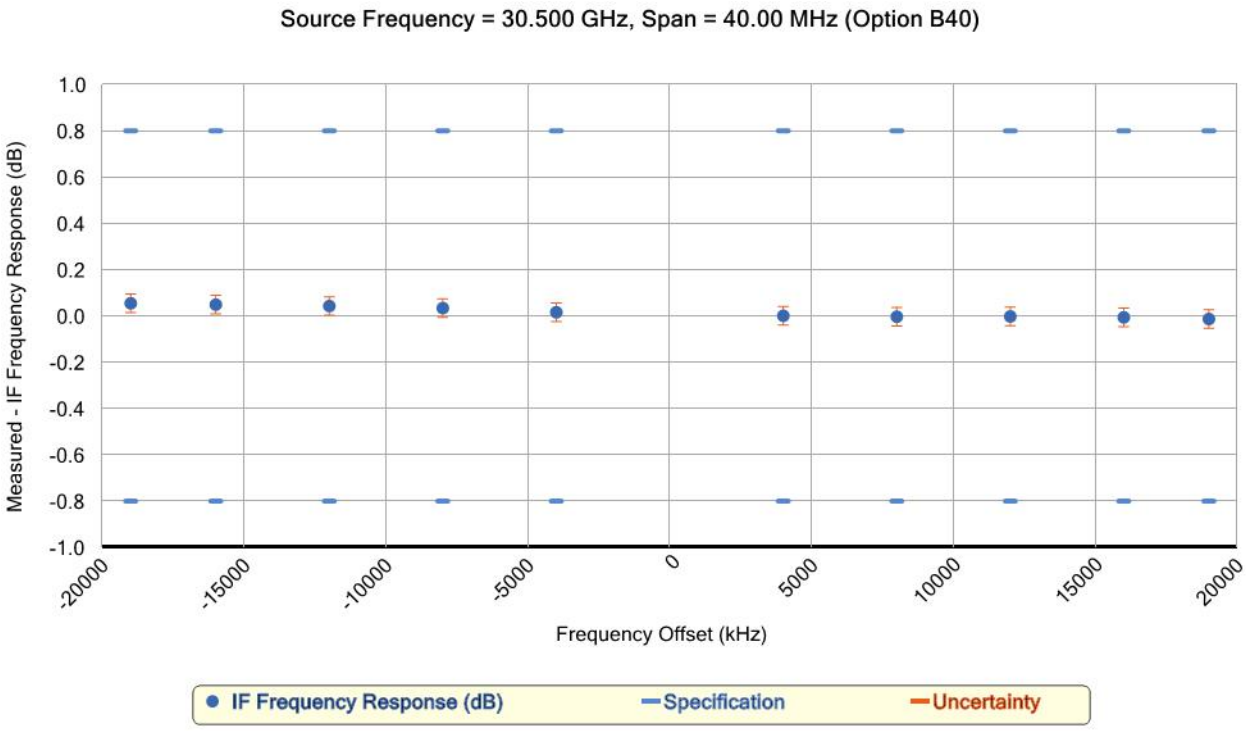
IF Frequency Response (cont.)



Source Frequency = 30.500 GHz, Span = 25.00 MHz (Option B25)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−11500.00 kHz	−0.40 dB	0.049 dB	0.40 dB	0.040 dB	
−10000.00 kHz	−0.40 dB	0.048 dB	0.40 dB	0.040 dB	
−7500.00 kHz	−0.40 dB	0.040 dB	0.40 dB	0.040 dB	
−5000.00 kHz	−0.30 dB	0.041 dB	0.30 dB	0.040 dB	
−2500.00 kHz	−0.30 dB	0.027 dB	0.30 dB	0.040 dB	
2500.00 kHz	−0.30 dB	0.015 dB	0.30 dB	0.040 dB	
5000.00 kHz	−0.30 dB	0.017 dB	0.30 dB	0.040 dB	
7500.00 kHz	−0.40 dB	−0.001 dB	0.40 dB	0.040 dB	
10000.00 kHz	−0.40 dB	−0.003 dB	0.40 dB	0.040 dB	
11500.00 kHz	−0.40 dB	−0.006 dB	0.40 dB	0.040 dB	

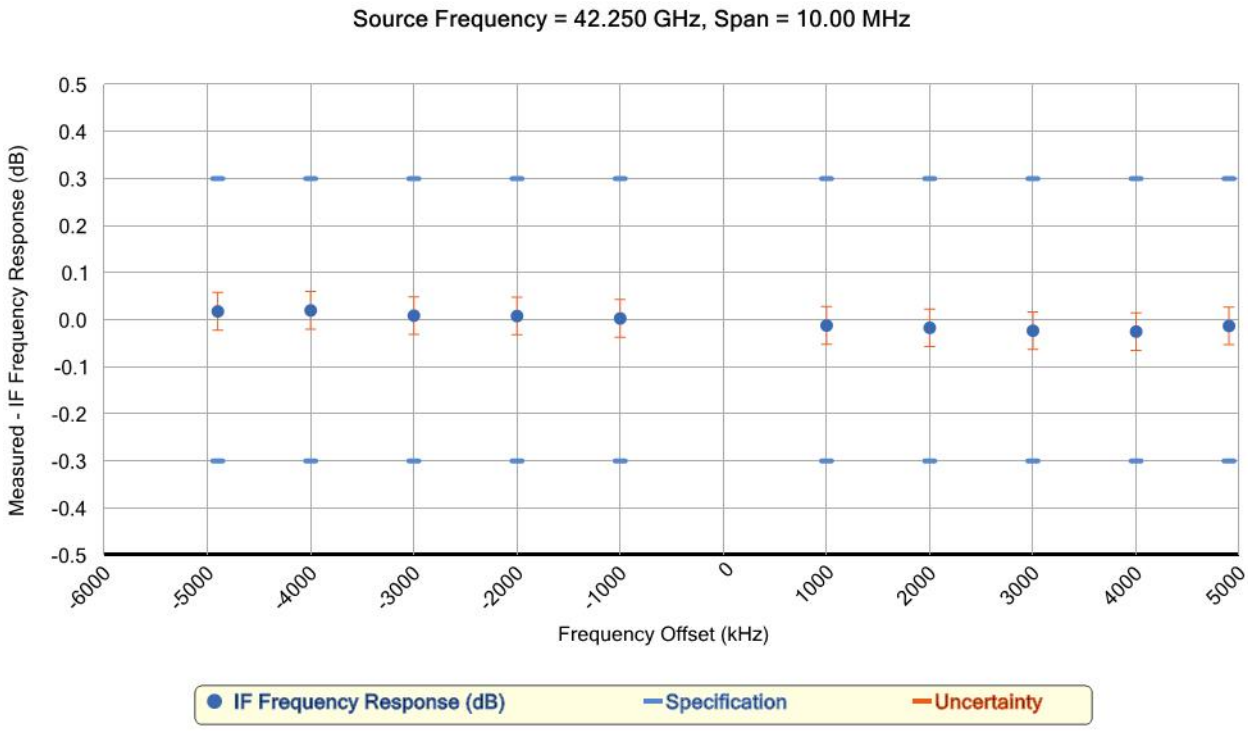
IF Frequency Response (cont.)



Source Frequency = 30.500 GHz, Span = 40.00 MHz (Option B40)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−19000.00 kHz	−0.80 dB	0.055 dB	0.80 dB	0.040 dB	
−16000.00 kHz	−0.80 dB	0.049 dB	0.80 dB	0.040 dB	
−12000.00 kHz	−0.80 dB	0.043 dB	0.80 dB	0.040 dB	
−8000.00 kHz	−0.80 dB	0.034 dB	0.80 dB	0.040 dB	
−4000.00 kHz	−0.80 dB	0.016 dB	0.80 dB	0.040 dB	
4000.00 kHz	−0.80 dB	0.001 dB	0.80 dB	0.040 dB	
8000.00 kHz	−0.80 dB	−0.003 dB	0.80 dB	0.040 dB	
12000.00 kHz	−0.80 dB	−0.002 dB	0.80 dB	0.040 dB	
16000.00 kHz	−0.80 dB	−0.006 dB	0.80 dB	0.040 dB	
19000.00 kHz	−0.80 dB	−0.013 dB	0.80 dB	0.040 dB	

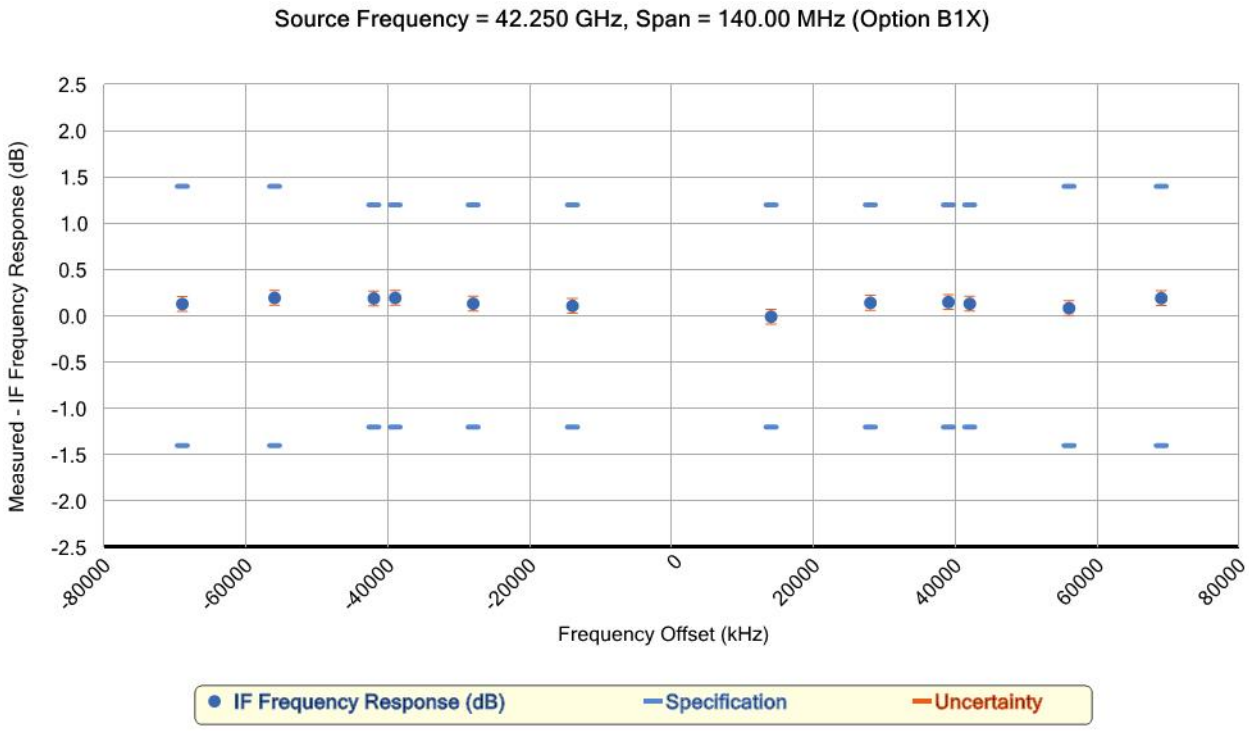
IF Frequency Response (cont.)



Source Frequency = 42.250 GHz, Span = 10.00 MHz

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−4900.00 kHz	−0.30 dB	0.018 dB	0.30 dB	0.040 dB	
−4000.00 kHz	−0.30 dB	0.020 dB	0.30 dB	0.040 dB	
−3000.00 kHz	−0.30 dB	0.009 dB	0.30 dB	0.040 dB	
−2000.00 kHz	−0.30 dB	0.008 dB	0.30 dB	0.040 dB	
−1000.00 kHz	−0.30 dB	0.003 dB	0.30 dB	0.040 dB	
1000.00 kHz	−0.30 dB	−0.012 dB	0.30 dB	0.040 dB	
2000.00 kHz	−0.30 dB	−0.017 dB	0.30 dB	0.040 dB	
3000.00 kHz	−0.30 dB	−0.023 dB	0.30 dB	0.040 dB	
4000.00 kHz	−0.30 dB	−0.025 dB	0.30 dB	0.040 dB	
4900.00 kHz	−0.30 dB	−0.013 dB	0.30 dB	0.040 dB	

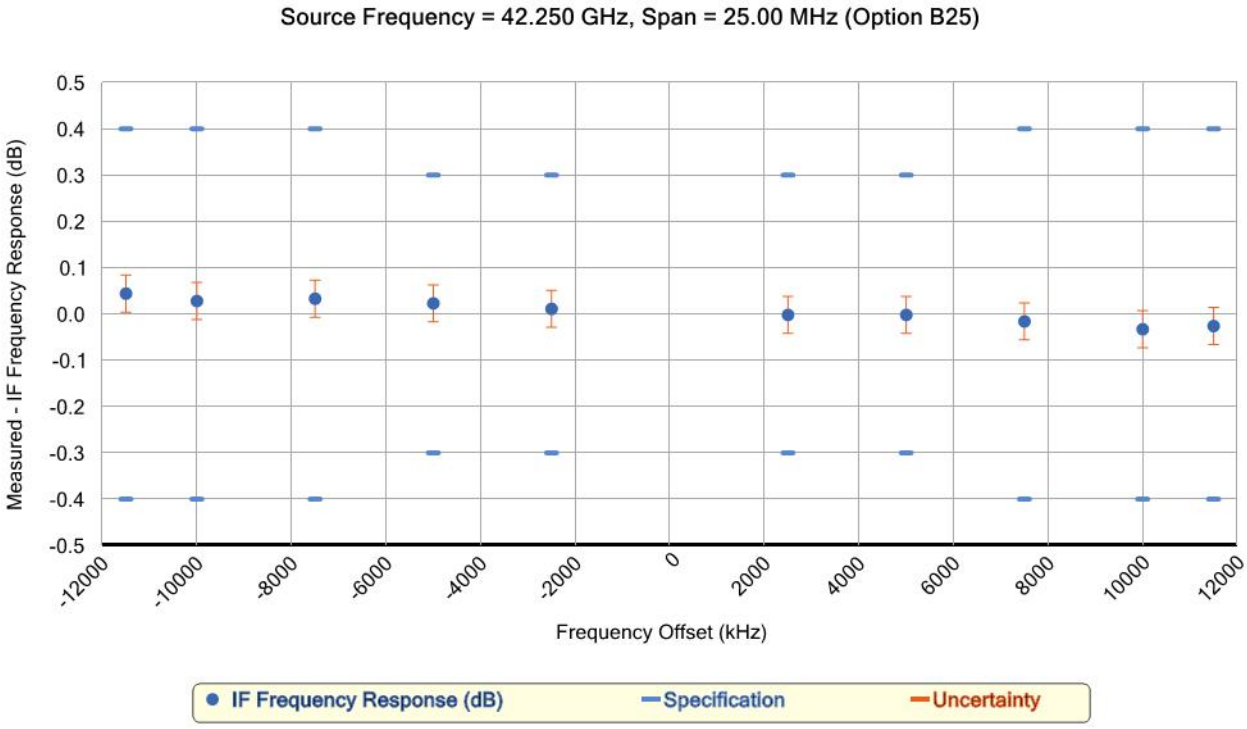
IF Frequency Response (cont.)



Source Frequency = 42.250 GHz, Span = 140.00 MHz (Option B1X)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−69000.00 kHz	−1.40 dB	0.129 dB	1.40 dB	0.080 dB	
−56000.00 kHz	−1.40 dB	0.195 dB	1.40 dB	0.080 dB	
−42000.00 kHz	−1.20 dB	0.190 dB	1.20 dB	0.080 dB	
−39000.00 kHz	−1.20 dB	0.195 dB	1.20 dB	0.080 dB	
−28000.00 kHz	−1.20 dB	0.133 dB	1.20 dB	0.080 dB	
−14000.00 kHz	−1.20 dB	0.109 dB	1.20 dB	0.080 dB	
14000.00 kHz	−1.20 dB	−0.007 dB	1.20 dB	0.080 dB	
28000.00 kHz	−1.20 dB	0.142 dB	1.20 dB	0.080 dB	
39000.00 kHz	−1.20 dB	0.150 dB	1.20 dB	0.080 dB	
42000.00 kHz	−1.20 dB	0.132 dB	1.20 dB	0.080 dB	
56000.00 kHz	−1.40 dB	0.084 dB	1.40 dB	0.080 dB	
69000.00 kHz	−1.40 dB	0.192 dB	1.40 dB	0.080 dB	

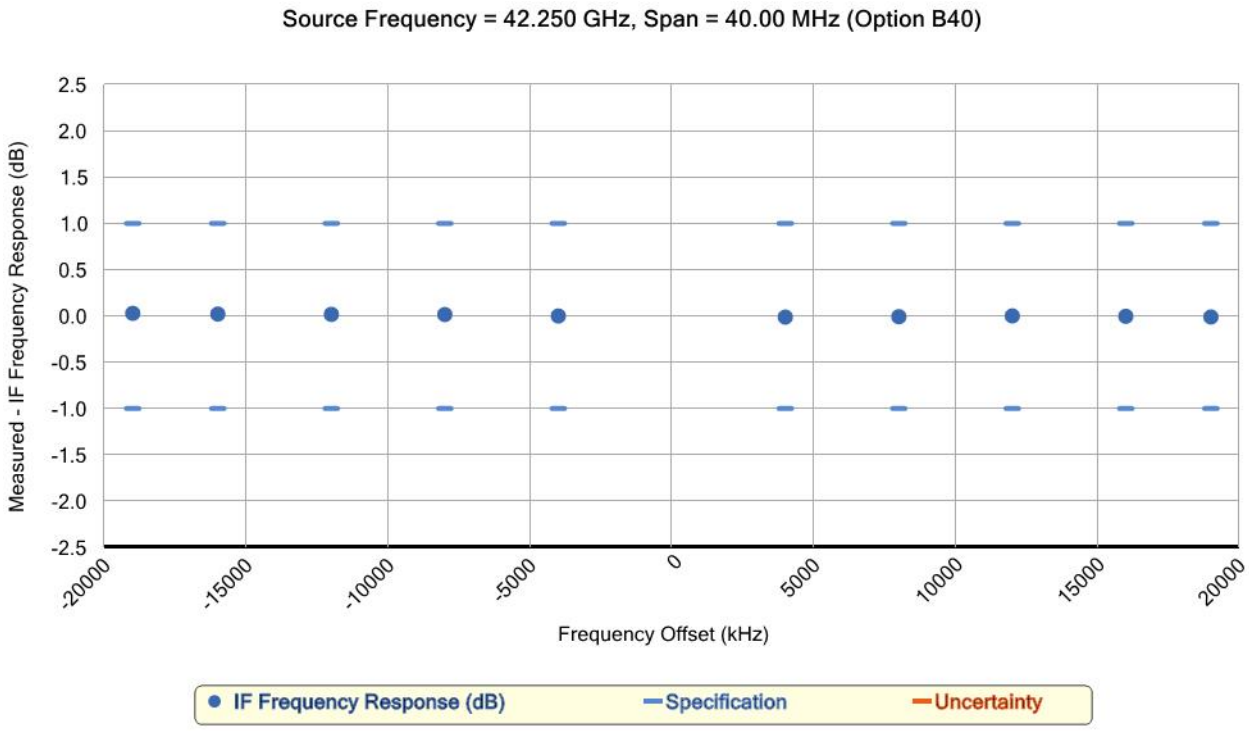
IF Frequency Response (cont.)



Source Frequency = 42.250 GHz, Span = 25.00 MHz (Option B25)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−11500.00 kHz	−0.40 dB	0.044 dB	0.40 dB	0.040 dB	
−10000.00 kHz	−0.40 dB	0.028 dB	0.40 dB	0.040 dB	
−7500.00 kHz	−0.40 dB	0.033 dB	0.40 dB	0.040 dB	
−5000.00 kHz	−0.30 dB	0.023 dB	0.30 dB	0.040 dB	
−2500.00 kHz	−0.30 dB	0.011 dB	0.30 dB	0.040 dB	
2500.00 kHz	−0.30 dB	−0.002 dB	0.30 dB	0.040 dB	
5000.00 kHz	−0.30 dB	−0.002 dB	0.30 dB	0.040 dB	
7500.00 kHz	−0.40 dB	−0.016 dB	0.40 dB	0.040 dB	
10000.00 kHz	−0.40 dB	−0.033 dB	0.40 dB	0.040 dB	
11500.00 kHz	−0.40 dB	−0.026 dB	0.40 dB	0.040 dB	

IF Frequency Response (cont.)



Source Frequency = 42.250 GHz, Span = 40.00 MHz (Option B40)

Frequency Offset	Minimum	Measured	Maximum	Uncert.	Status
−19000.00 kHz	−1.00 dB	0.029 dB	1.00 dB	0.040 dB	
−16000.00 kHz	−1.00 dB	0.021 dB	1.00 dB	0.040 dB	
−12000.00 kHz	−1.00 dB	0.018 dB	1.00 dB	0.040 dB	
−8000.00 kHz	−1.00 dB	0.016 dB	1.00 dB	0.040 dB	
−4000.00 kHz	−1.00 dB	0.000 dB	1.00 dB	0.040 dB	
4000.00 kHz	−1.00 dB	−0.012 dB	1.00 dB	0.040 dB	
8000.00 kHz	−1.00 dB	−0.007 dB	1.00 dB	0.040 dB	
12000.00 kHz	−1.00 dB	0.001 dB	1.00 dB	0.040 dB	
16000.00 kHz	−1.00 dB	−0.003 dB	1.00 dB	0.040 dB	
19000.00 kHz	−1.00 dB	−0.010 dB	1.00 dB	0.040 dB	

Spurious Responses **Passed**

First Order Spurs

Spurious Frequency	Source Frequency	Measured	Maximum	Uncert.	Status
333.50 MHz	322.50 MHz	−120.35 dBc	−80.00 dBc	9.8 dB	
4477.50 MHz	322.50 MHz	−121.56 dBc	−80.00 dBc	15 dB	
9297.50 MHz	9287.50 MHz	−119.84 dBc	−73.98 dBc	13 dB	

Spurious Responses (cont.)

Higher Order Spurs

Spurious Frequency	Source Frequency	Measured	Maximum	Uncert.	Status
1000.00 MHz	1161.25 MHz	−97.70 dBc	−78.00 dBc	9.7 dB	
1000.00 MHz	3561.25 MHz	−100.20 dBc	−78.00 dBc	11 dB	
1100.00 MHz	2561.25 MHz	−98.09 dBc	−78.00 dBc	9.9 dB	
25000.00 MHz	161.25 MHz	−88.78 dBc	−65.96 dBc	13 dB	
25000.00 MHz	25161.25 MHz	−88.16 dBc	−65.96 dBc	12 dB	

Image/Multiple/Feedthru Spurs B1X IF Path

Spurious Frequency	Source Frequency	Measured	Maximum	Uncert.	Status
1100.00 MHz	1700.00 MHz	−102.07 dBc	−80.00 dBc	2.6 dB	
7500.00 MHz	8100.00 MHz	−114.59 dBc	−78.00 dBc	2.7 dB	
12500.00 MHz	13100.00 MHz	−118.56 dBc	−78.00 dBc	2.7 dB	
13500.00 MHz	14100.00 MHz	−112.14 dBc	−78.00 dBc	2.7 dB	
15500.00 MHz	16100.00 MHz	−107.64 dBc	−74.00 dBc	2.7 dB	
20000.00 MHz	20600.00 MHz	−109.66 dBc	−70.00 dBc	3.0 dB	
21000.00 MHz	21600.00 MHz	−106.95 dBc	−70.00 dBc	3.0 dB	
30000.00 MHz	30600.00 MHz	−100.24 dBc	−60.00 dBc	3.3 dB	
36000.00 MHz	36600.00 MHz	−87.15 dBc	−57.00 dBc	3.3 dB	
42000.00 MHz	42600.00 MHz	−90.55 dBc	−57.00 dBc	3.3 dB	
44000.00 MHz	44600.00 MHz	−80.85 dBc	−57.00 dBc	3.3 dB	

Image/Multiple/Feedthru Spurs B40 IF Path

Spurious Frequency	Source Frequency	Measured	Maximum	Uncert.	Status
1100.00 MHz	1600.00 MHz	−98.39 dBc	−80.00 dBc	2.6 dB	
7000.00 MHz	7500.00 MHz	−115.91 dBc	−78.00 dBc	2.7 dB	
8000.00 MHz	8500.00 MHz	−114.12 dBc	−78.00 dBc	2.7 dB	
13000.00 MHz	13500.00 MHz	−107.36 dBc	−78.00 dBc	2.7 dB	
16500.00 MHz	17000.00 MHz	−111.65 dBc	−74.00 dBc	2.7 dB	
20400.00 MHz	20900.00 MHz	−106.47 dBc	−70.00 dBc	3.0 dB	
25750.00 MHz	26250.00 MHz	−99.15 dBc	−68.00 dBc	3.0 dB	
30000.00 MHz	30500.00 MHz	−98.45 dBc	−60.00 dBc	3.3 dB	
35000.00 MHz	35500.00 MHz	−88.96 dBc	−57.00 dBc	3.3 dB	
38000.00 MHz	38500.00 MHz	−90.06 dBc	−57.00 dBc	3.3 dB	
40000.00 MHz	40500.00 MHz	−92.24 dBc	−57.00 dBc	3.3 dB	
44000.00 MHz	44500.00 MHz	−81.28 dBc	−57.00 dBc	3.3 dB	

Image/Multiple/Feedthru Spurs STD IF Path

Spurious Frequency	Source Frequency	Measured	Maximum	Uncert.	Status
225.00 MHz	10470.00 MHz	−124.62 dBc	−80.00 dBc	12 dB	
1100.00 MHz	1745.00 MHz	−101.48 dBc	−80.00 dBc	3.5 dB	
5500.00 MHz	6145.00 MHz	−111.32 dBc	−80.00 dBc	10 dB	
12000.00 MHz	12645.00 MHz	−107.49 dBc	−80.00 dBc	7.3 dB	
15000.00 MHz	15645.00 MHz	−110.30 dBc	−80.00 dBc	9.3 dB	
15500.00 MHz	16145.00 MHz	−105.90 dBc	−80.00 dBc	7.5 dB	
20500.00 MHz	21145.00 MHz	−108.69 dBc	−80.00 dBc	10 dB	
23000.00 MHz	23645.00 MHz	−107.17 dBc	−80.00 dBc	11 dB	
28000.00 MHz	28645.00 MHz	−89.50 dBc	−70.00 dBc	12 dB	

Spurious Responses (cont.)

Spurious Frequency	Source Frequency	Measured	Maximum	Uncert.	Status
30000.00 MHz	30645.00 MHz	−90.24 dBc	−70.00 dBc	12 dB	
37000.00 MHz	37645.00 MHz	−86.77 dBc	−60.00 dBc	13 dB	
42000.00 MHz	42645.00 MHz	−82.92 dBc	−60.00 dBc	13 dB	

Gain Compression — Passed

Center Frequency	Mixer Level	Measured	Maximum	Uncert.	Status
50 MHz	1.0 dBm	0.00 dB	1.0 dB	0.14 dB	
200 MHz	3.0 dBm	0.00 dB	1.0 dB	0.14 dB	
500 MHz	3.0 dBm	0.00 dB	1.0 dB	0.14 dB	
2000 MHz	3.0 dBm	0.00 dB	1.0 dB	0.14 dB	
3000 MHz	3.0 dBm	0.00 dB	1.0 dB	0.14 dB	
3500 MHz	3.0 dBm	0.00 dB	1.0 dB	0.14 dB	
6000 MHz	1.0 dBm	0.00 dB	1.0 dB	0.14 dB	
11000 MHz	1.0 dBm	0.00 dB	1.0 dB	0.14 dB	
15300 MHz	1.0 dBm	0.00 dB	1.0 dB	0.14 dB	
19900 MHz	−1.0 dBm	0.00 dB	1.0 dB	0.17 dB	

Third Order Intermodulation Distortion — Passed

Frequency	Minimum	Measured	Uncert.	Status
50.01 MHz	13.0 dBm	19.98 dBm	0.29 dB	
1700.21 MHz	21.0 dBm	22.56 dBm	0.36 dB	
2800.21 MHz	21.0 dBm	23.41 dBm	0.39 dB	
5000.21 MHz	16.0 dBm	24.33 dBm	0.58 dB	
13000.21 MHz	16.0 dBm	25.06 dBm	0.54 dB	
19500.21 MHz	13.0 dBm	24.05 dBm	0.83 dB	
23500.21 MHz	13.0 dBm	26.27 dBm	1.7 dB	
28000.21 MHz	13.0 dBm	23.64 dBm	3.2 dB	
37000.21 MHz	10.0 dBm	19.02 dBm	2.7 dB	
41500.21 MHz	10.0 dBm	22.18 dBm	6.0 dB	
46000.21 MHz	10.0 dBm	21.88 dBm	6.0 dB	

Second Harmonic Distortion — Passed

Standard Path, Mixer Level = -15.00 dBm

Frequency	Measured	Maximum	Uncert.	Status
50.10 MHz	−83.81 dBc	−57.00 dBc	0.90 dB	
290.10 MHz	−88.94 dBc	−60.00 dBc	0.90 dB	
1748.10 MHz	−79.45 dBc	−60.00 dBc	0.90 dB	
3900.10 MHz	−81.28 dBc	−77.00 dBc	0.90 dB	
8200.10 MHz	−99.65 dBc	−70.00 dBc	1.2 dB	
11750.10 MHz	−92.24 dBc	−62.00 dBc	1.1 dB	

Second Harmonic Distortion (cont.)

LowNoise Path, Mixer Level = -15.00 dBm

Frequency	Measured	Maximum	Uncert.	Status
3900.10 MHz	−109.28 dBc	−99.00 dBc	1.4 dB	
8200.10 MHz	−111.59 dBc	−105.00 dBc	1.8 dB	
11750.10 MHz	−108.73 dBc	−105.00 dBc	1.8 dB	

Absolute Amplitude Accuracy — Passed

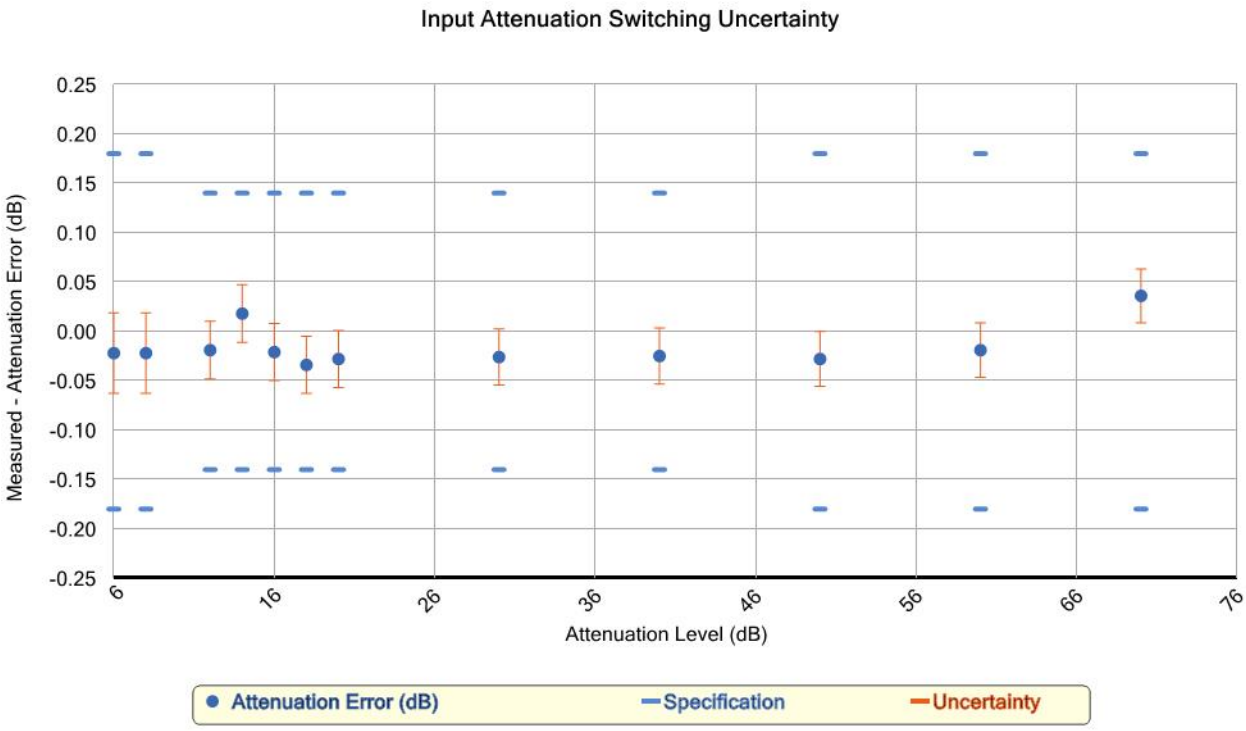
Preamp Off

Nominal Input Level	Resolution Bandwidth	Span	Measured Amplitude	Minimum	Measured	Maximum	Uncert.	Sts
−11.00 dBm	820.00 kHz	4990.00 kHz	−10.989 dBm	−0.24 dB	−0.017 dB	0.24 dB	0.082 dB	
−13.00 dBm	360.00 kHz	4990.00 kHz	−12.965 dBm	−0.24 dB	0.006 dB	0.24 dB	0.082 dB	
−21.00 dBm	47.00 kHz	4982.00 kHz	−20.938 dBm	−0.24 dB	0.040 dB	0.24 dB	0.082 dB	
−26.00 dBm	30.00 kHz	3180.00 kHz	−26.004 dBm	−0.24 dB	0.040 dB	0.24 dB	0.082 dB	
−36.00 dBm	4.70 kHz	498.20 kHz	−36.045 dBm	−0.24 dB	0.003 dB	0.24 dB	0.083 dB	
−51.00 dBm	2.00 kHz	212.00 kHz	−51.064 dBm	−0.24 dB	0.004 dB	0.24 dB	0.083 dB	

Preamp On

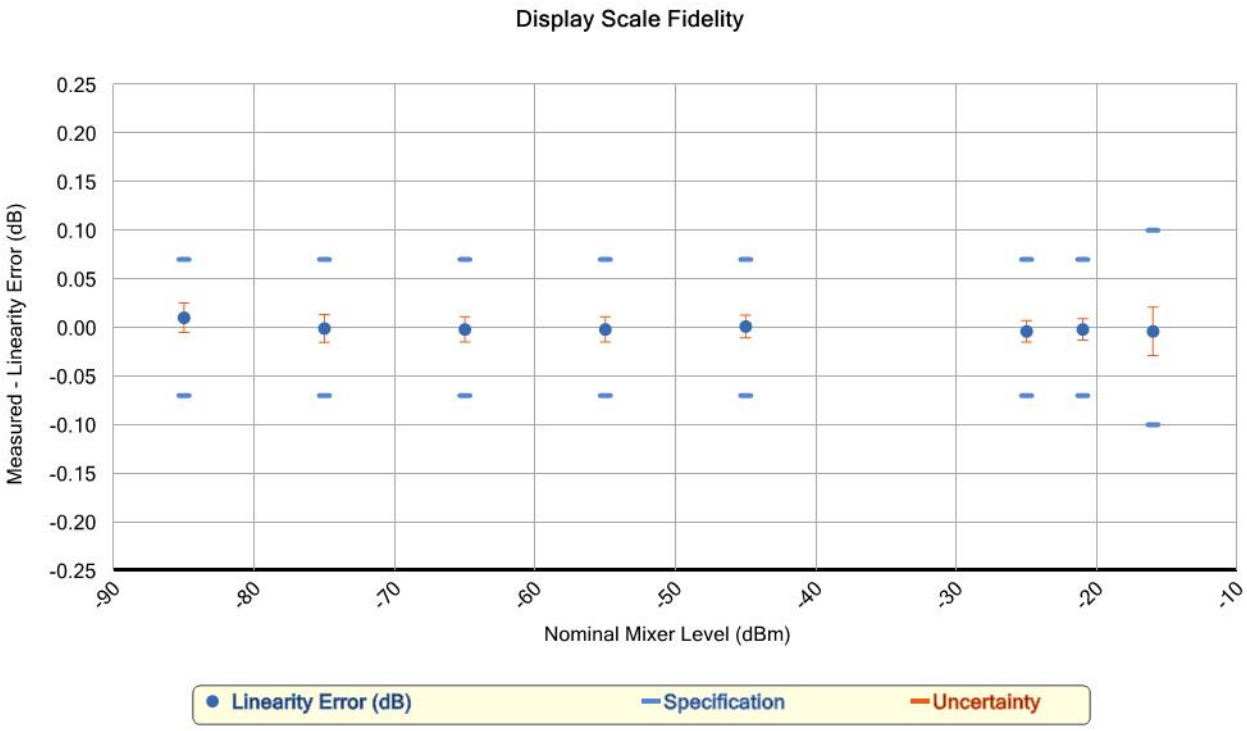
Nominal Input Level	Resolution Bandwidth	Span	Measured Amplitude	Minimum	Measured	Maximum	Uncert.	Sts
−41.00 dBm	47.00 kHz	4982.00 kHz	−40.973 dBm	−0.36 dB	0.069 dB	0.36 dB	0.083 dB	
−61.00 dBm	7.50 kHz	795.00 kHz	−61.042 dBm	−0.36 dB	0.031 dB	0.36 dB	0.083 dB	
−81.00 dBm	1.00 kHz	106.00 kHz	−81.113 dBm	−0.36 dB	0.026 dB	0.36 dB	0.088 dB	

Input Attenuation Switching Uncertainty — Passed



Attenuation Level	Minimum	Measured	Maximum	Uncert.	Status
6.00 dB	−0.18 dB	−0.022 dB	0.18 dB	0.041 dB	
8.00 dB	−0.18 dB	−0.022 dB	0.18 dB	0.041 dB	
12.00 dB	−0.14 dB	−0.019 dB	0.14 dB	0.029 dB	
14.00 dB	−0.14 dB	0.018 dB	0.14 dB	0.029 dB	
16.00 dB	−0.14 dB	−0.021 dB	0.14 dB	0.029 dB	
18.00 dB	−0.14 dB	−0.034 dB	0.14 dB	0.029 dB	
20.00 dB	−0.14 dB	−0.028 dB	0.14 dB	0.029 dB	
30.00 dB	−0.14 dB	−0.026 dB	0.14 dB	0.028 dB	
40.00 dB	−0.14 dB	−0.025 dB	0.14 dB	0.028 dB	
50.00 dB	−0.18 dB	−0.028 dB	0.18 dB	0.028 dB	
60.00 dB	−0.18 dB	−0.019 dB	0.18 dB	0.028 dB	
70.00 dB	−0.18 dB	0.036 dB	0.18 dB	0.027 dB	

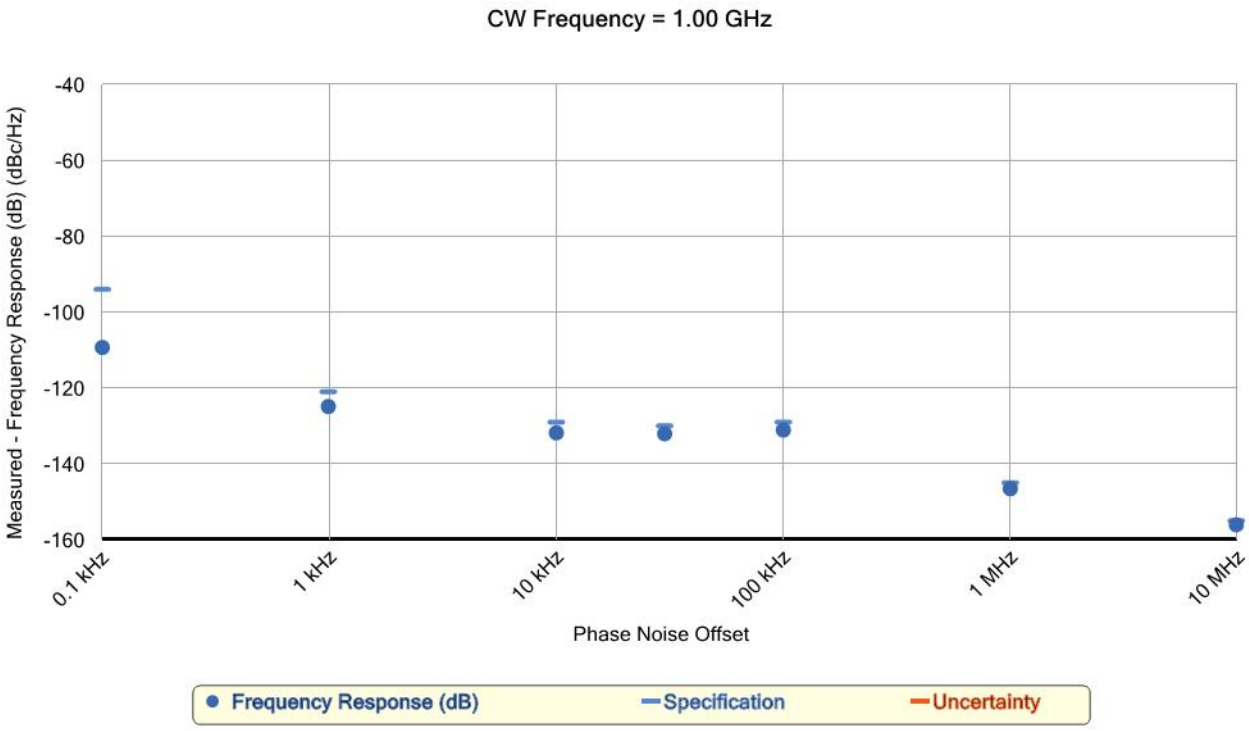
Display Scale Fidelity — Passed



Nominal Mixer Level	Measured Input Level	Minimum	Measured	Maximum	Uncert.	Status
−85.00 dBm	−75.18 dBm	−0.07 dB	0.010 dB	0.07 dB	0.015 dB	
−75.00 dBm	−65.13 dBm	−0.07 dB	−0.001 dB	0.07 dB	0.014 dB	
−65.00 dBm	−55.12 dBm	−0.07 dB	−0.002 dB	0.07 dB	0.013 dB	
−55.00 dBm	−45.10 dBm	−0.07 dB	−0.002 dB	0.07 dB	0.013 dB	
−45.00 dBm	−35.09 dBm	−0.07 dB	0.001 dB	0.07 dB	0.012 dB	
−25.00 dBm	−15.03 dBm	−0.07 dB	−0.004 dB	0.07 dB	0.011 dB	
−21.00 dBm	−11.03 dBm	−0.07 dB	−0.002 dB	0.07 dB	0.011 dB	
−16.00 dBm	−5.82 dBm	−0.10 dB	−0.004 dB	0.10 dB	0.025 dB	

Phase Noise

Passed



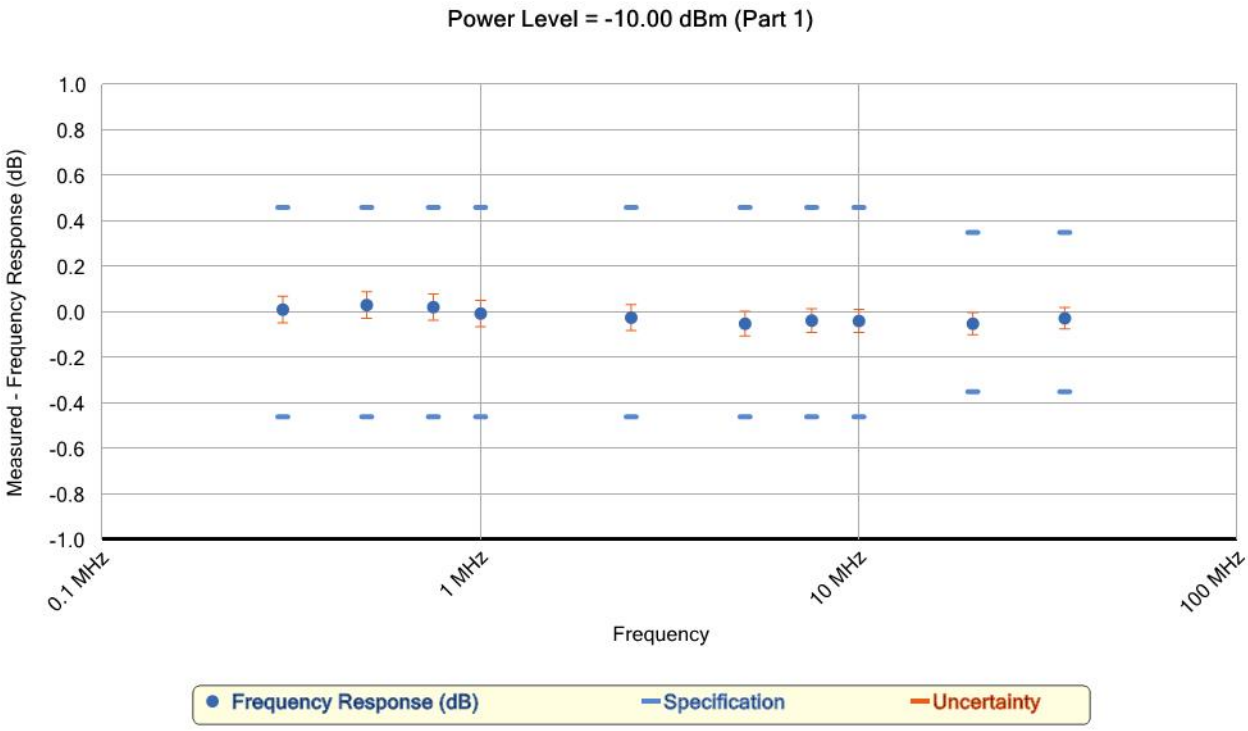
CW Frequency = 1.00 GHz

Phase Noise Offset	Measured	Maximum	Uncert.	Status
0.10 kHz	−109.31 dBc/Hz	−94.00 dBc/Hz	0.61 dB	
0.99 kHz	−124.87 dBc/Hz	−121.00 dBc/Hz	0.44 dB	
10.00 kHz	−131.81 dBc/Hz	−129.00 dBc/Hz	0.44 dB	
30.00 kHz	−132.05 dBc/Hz	−130.00 dBc/Hz	0.43 dB	
100.00 kHz	−131.08 dBc/Hz	−129.00 dBc/Hz	0.67 dB	
1000.00 kHz	−146.55 dBc/Hz	−145.00 dBc/Hz	0.67 dB	
9900.00 kHz	−156.06 dBc/Hz	−155.00 dBc/Hz	0.67 dB	

The reported value for phase noise represents both the phase noise of the X-Series Signal Analyzer plus the phase noise of the signal source used for this measurement. For reported values near the specification limit, the phase noise contribution from the signal source is negligible. However, for reported values significantly better than the specification limit, the contribution from the signal source may be significant. For these cases, it can be assumed the X-Series Signal Analyzer phase noise is better than the reported value.

The reported Uncertainties assume measured values near the specification limit.

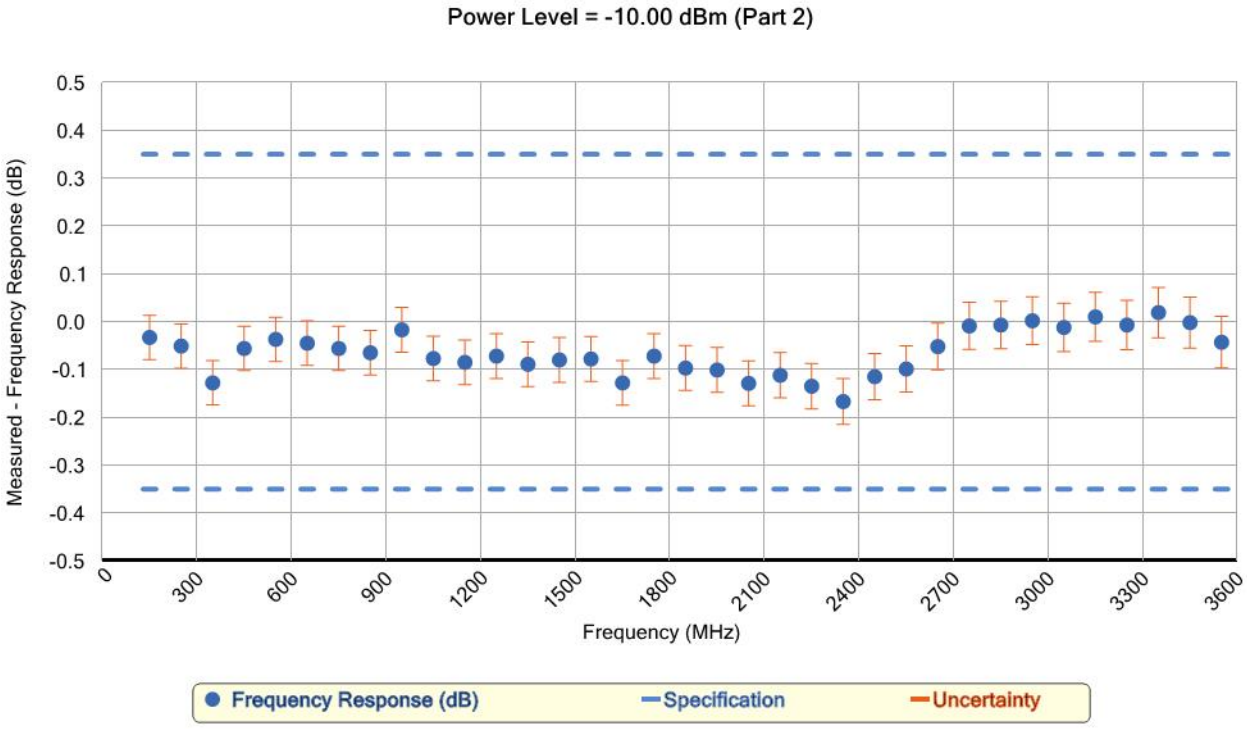
Freq Resp 300 kHz to 3.6 GHz Preamp Off — Passed



Power Level = -10.00 dBm (Part 1)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
0.30 MHz	−0.46 dB	0.011 dB	0.46 dB	0.058 dB	
0.50 MHz	−0.46 dB	0.031 dB	0.46 dB	0.058 dB	
0.75 MHz	−0.46 dB	0.022 dB	0.46 dB	0.058 dB	
1.00 MHz	−0.46 dB	−0.006 dB	0.46 dB	0.058 dB	
2.50 MHz	−0.46 dB	−0.024 dB	0.46 dB	0.056 dB	
5.00 MHz	−0.46 dB	−0.051 dB	0.46 dB	0.054 dB	
7.50 MHz	−0.46 dB	−0.037 dB	0.46 dB	0.052 dB	
10.00 MHz	−0.46 dB	−0.039 dB	0.46 dB	0.050 dB	
20.00 MHz	−0.35 dB	−0.051 dB	0.35 dB	0.049 dB	
35.00 MHz	−0.35 dB	−0.027 dB	0.35 dB	0.047 dB	

Freq Resp 300 kHz to 3.6 GHz Preamp Off (cont.)



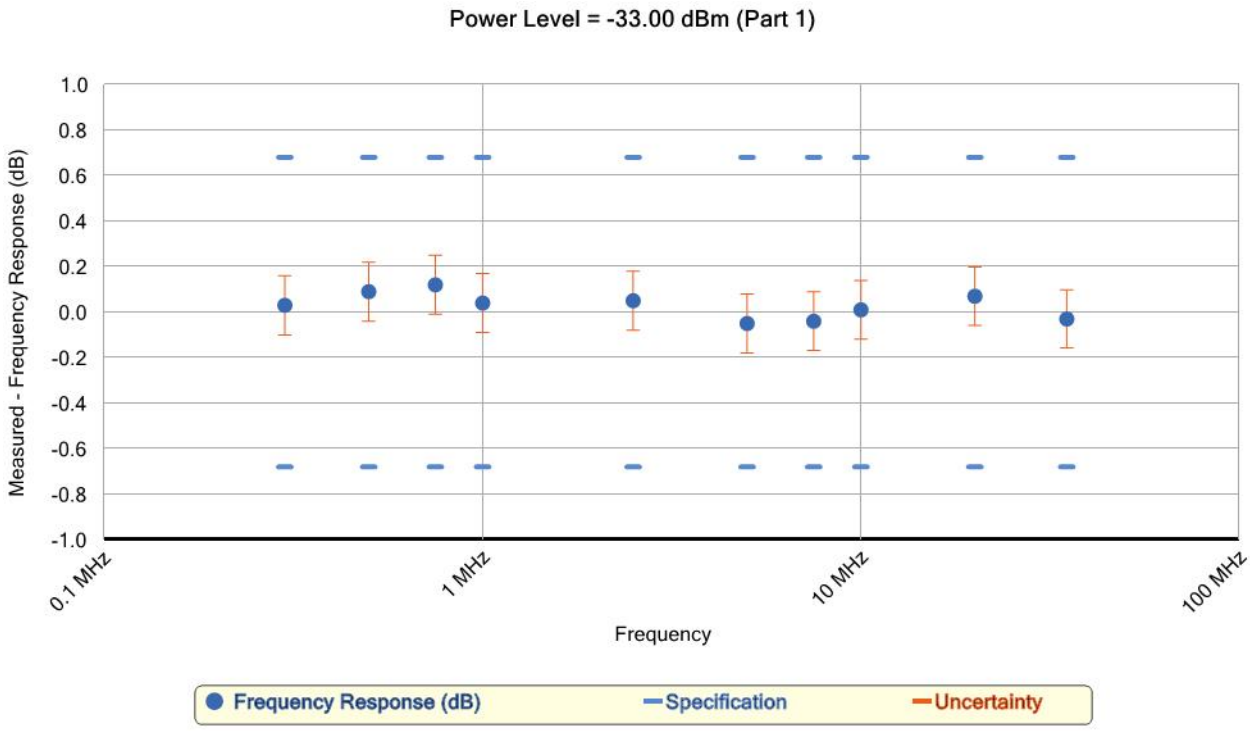
Power Level = -10.00 dBm (Part 2)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
150.00 MHz	−0.35 dB	−0.033 dB	0.35 dB	0.046 dB	
250.00 MHz	−0.35 dB	−0.051 dB	0.35 dB	0.046 dB	
350.00 MHz	−0.35 dB	−0.128 dB	0.35 dB	0.046 dB	
450.00 MHz	−0.35 dB	−0.056 dB	0.35 dB	0.046 dB	
550.00 MHz	−0.35 dB	−0.037 dB	0.35 dB	0.046 dB	
650.00 MHz	−0.35 dB	−0.045 dB	0.35 dB	0.046 dB	
750.00 MHz	−0.35 dB	−0.056 dB	0.35 dB	0.046 dB	
850.00 MHz	−0.35 dB	−0.065 dB	0.35 dB	0.047 dB	
950.00 MHz	−0.35 dB	−0.017 dB	0.35 dB	0.047 dB	
1050.00 MHz	−0.35 dB	−0.077 dB	0.35 dB	0.047 dB	
1150.00 MHz	−0.35 dB	−0.085 dB	0.35 dB	0.047 dB	
1250.00 MHz	−0.35 dB	−0.072 dB	0.35 dB	0.047 dB	
1350.00 MHz	−0.35 dB	−0.089 dB	0.35 dB	0.047 dB	
1450.00 MHz	−0.35 dB	−0.080 dB	0.35 dB	0.047 dB	
1550.00 MHz	−0.35 dB	−0.078 dB	0.35 dB	0.047 dB	
1650.00 MHz	−0.35 dB	−0.128 dB	0.35 dB	0.047 dB	
1750.00 MHz	−0.35 dB	−0.072 dB	0.35 dB	0.047 dB	
1850.00 MHz	−0.35 dB	−0.097 dB	0.35 dB	0.047 dB	
1950.00 MHz	−0.35 dB	−0.101 dB	0.35 dB	0.047 dB	
2050.00 MHz	−0.35 dB	−0.129 dB	0.35 dB	0.047 dB	
2150.00 MHz	−0.35 dB	−0.112 dB	0.35 dB	0.047 dB	

Freq Resp 300 kHz to 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
2250.00 MHz	−0.35 dB	−0.135 dB	0.35 dB	0.048 dB	
2350.00 MHz	−0.35 dB	−0.167 dB	0.35 dB	0.048 dB	
2450.00 MHz	−0.35 dB	−0.115 dB	0.35 dB	0.048 dB	
2550.00 MHz	−0.35 dB	−0.099 dB	0.35 dB	0.048 dB	
2650.00 MHz	−0.35 dB	−0.052 dB	0.35 dB	0.049 dB	
2750.00 MHz	−0.35 dB	−0.009 dB	0.35 dB	0.049 dB	
2850.00 MHz	−0.35 dB	−0.007 dB	0.35 dB	0.050 dB	
2950.00 MHz	−0.35 dB	0.002 dB	0.35 dB	0.050 dB	
3050.00 MHz	−0.35 dB	−0.012 dB	0.35 dB	0.051 dB	
3150.00 MHz	−0.35 dB	0.010 dB	0.35 dB	0.051 dB	
3250.00 MHz	−0.35 dB	−0.007 dB	0.35 dB	0.052 dB	
3350.00 MHz	−0.35 dB	0.019 dB	0.35 dB	0.053 dB	
3450.00 MHz	−0.35 dB	−0.002 dB	0.35 dB	0.053 dB	
3550.00 MHz	−0.35 dB	−0.043 dB	0.35 dB	0.054 dB	

Freq Resp 300 kHz to 3.6 GHz Preamp On **Passed**

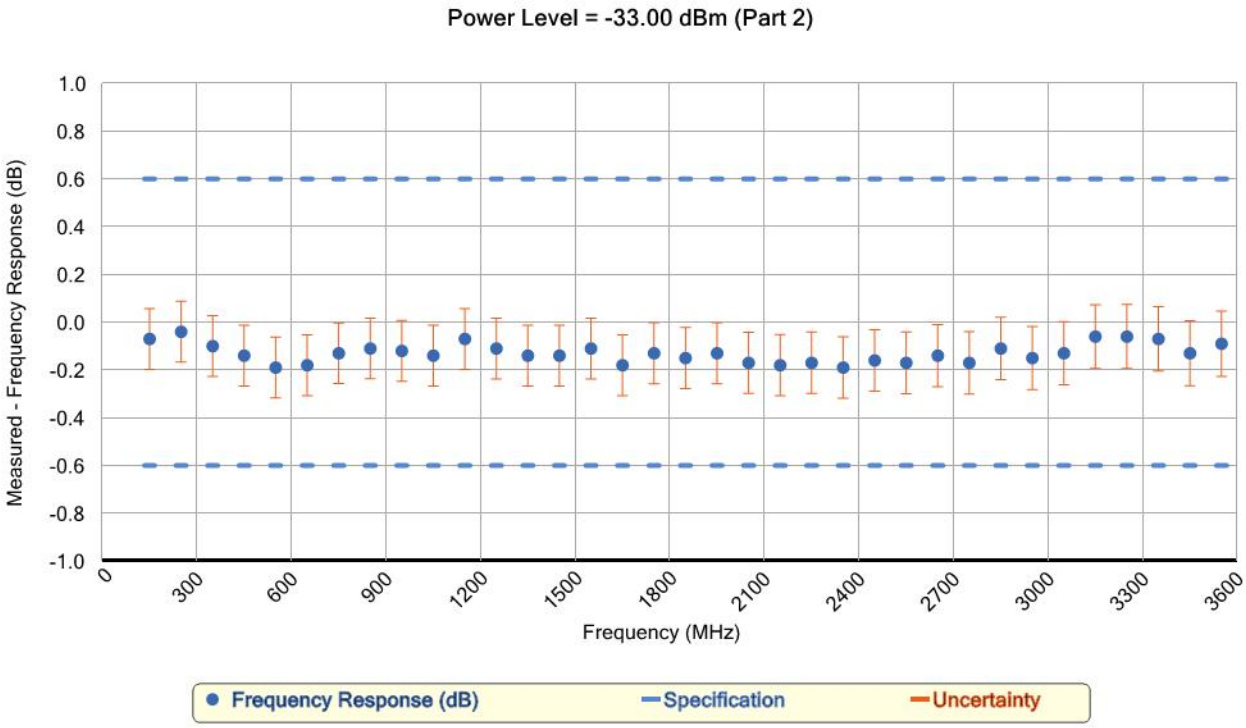


Power Level = -33.00 dBm (Part 1)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
0.30 MHz	−0.68 dB	0.03 dB	0.68 dB	0.13 dB	
0.50 MHz	−0.68 dB	0.09 dB	0.68 dB	0.13 dB	

Freq Resp 300 kHz to 3.6 GHz Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
0.75 MHz	−0.68 dB	0.12 dB	0.68 dB	0.13 dB	
1.00 MHz	−0.68 dB	0.04 dB	0.68 dB	0.13 dB	
2.50 MHz	−0.68 dB	0.05 dB	0.68 dB	0.13 dB	
5.00 MHz	−0.68 dB	−0.05 dB	0.68 dB	0.13 dB	
7.50 MHz	−0.68 dB	−0.04 dB	0.68 dB	0.13 dB	
10.00 MHz	−0.68 dB	0.01 dB	0.68 dB	0.13 dB	
20.00 MHz	−0.68 dB	0.07 dB	0.68 dB	0.13 dB	
35.00 MHz	−0.68 dB	−0.03 dB	0.68 dB	0.13 dB	



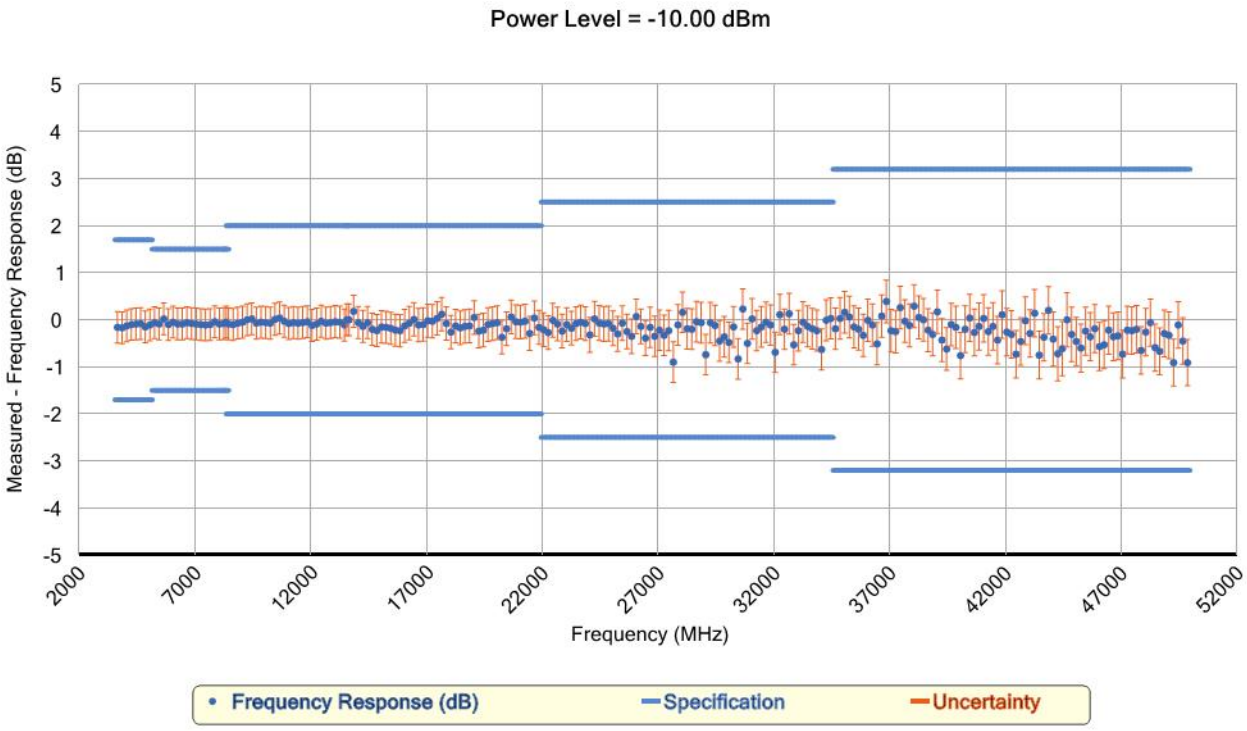
Power Level = -33.00 dBm (Part 2)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
150.00 MHz	−0.60 dB	−0.07 dB	0.60 dB	0.13 dB	
250.00 MHz	−0.60 dB	−0.04 dB	0.60 dB	0.13 dB	
350.00 MHz	−0.60 dB	−0.10 dB	0.60 dB	0.13 dB	
450.00 MHz	−0.60 dB	−0.14 dB	0.60 dB	0.13 dB	
550.00 MHz	−0.60 dB	−0.19 dB	0.60 dB	0.13 dB	
650.00 MHz	−0.60 dB	−0.18 dB	0.60 dB	0.13 dB	
750.00 MHz	−0.60 dB	−0.13 dB	0.60 dB	0.13 dB	
850.00 MHz	−0.60 dB	−0.11 dB	0.60 dB	0.13 dB	
950.00 MHz	−0.60 dB	−0.12 dB	0.60 dB	0.13 dB	
1050.00 MHz	−0.60 dB	−0.14 dB	0.60 dB	0.13 dB	
1150.00 MHz	−0.60 dB	−0.07 dB	0.60 dB	0.13 dB	

Freq Resp 300 kHz to 3.6 GHz Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
1250.00 MHz	−0.60 dB	−0.11 dB	0.60 dB	0.13 dB	
1350.00 MHz	−0.60 dB	−0.14 dB	0.60 dB	0.13 dB	
1450.00 MHz	−0.60 dB	−0.14 dB	0.60 dB	0.13 dB	
1550.00 MHz	−0.60 dB	−0.11 dB	0.60 dB	0.13 dB	
1650.00 MHz	−0.60 dB	−0.18 dB	0.60 dB	0.13 dB	
1750.00 MHz	−0.60 dB	−0.13 dB	0.60 dB	0.13 dB	
1850.00 MHz	−0.60 dB	−0.15 dB	0.60 dB	0.13 dB	
1950.00 MHz	−0.60 dB	−0.13 dB	0.60 dB	0.13 dB	
2050.00 MHz	−0.60 dB	−0.17 dB	0.60 dB	0.13 dB	
2150.00 MHz	−0.60 dB	−0.18 dB	0.60 dB	0.13 dB	
2250.00 MHz	−0.60 dB	−0.17 dB	0.60 dB	0.13 dB	
2350.00 MHz	−0.60 dB	−0.19 dB	0.60 dB	0.13 dB	
2450.00 MHz	−0.60 dB	−0.16 dB	0.60 dB	0.13 dB	
2550.00 MHz	−0.60 dB	−0.17 dB	0.60 dB	0.13 dB	
2650.00 MHz	−0.60 dB	−0.14 dB	0.60 dB	0.13 dB	
2750.00 MHz	−0.60 dB	−0.17 dB	0.60 dB	0.13 dB	
2850.00 MHz	−0.60 dB	−0.11 dB	0.60 dB	0.13 dB	
2950.00 MHz	−0.60 dB	−0.15 dB	0.60 dB	0.13 dB	
3050.00 MHz	−0.60 dB	−0.13 dB	0.60 dB	0.13 dB	
3150.00 MHz	−0.60 dB	−0.06 dB	0.60 dB	0.13 dB	
3250.00 MHz	−0.60 dB	−0.06 dB	0.60 dB	0.13 dB	
3350.00 MHz	−0.60 dB	−0.07 dB	0.60 dB	0.14 dB	
3450.00 MHz	−0.60 dB	−0.13 dB	0.60 dB	0.14 dB	
3550.00 MHz	−0.60 dB	−0.09 dB	0.60 dB	0.14 dB	

Freq Resp Above 3.6 GHz Preamp Off — Passed



Power Level = -10.00 dBm

Frequency	Minimum	Measured	Maximum	Uncert.	Status
3650.00 MHz	−1.70 dB	−0.16 dB	1.70 dB	0.34 dB	
3850.00 MHz	−1.70 dB	−0.17 dB	1.70 dB	0.34 dB	
4050.00 MHz	−1.70 dB	−0.13 dB	1.70 dB	0.34 dB	
4250.00 MHz	−1.70 dB	−0.10 dB	1.70 dB	0.34 dB	
4450.00 MHz	−1.70 dB	−0.09 dB	1.70 dB	0.34 dB	
4650.00 MHz	−1.70 dB	−0.08 dB	1.70 dB	0.34 dB	
4850.00 MHz	−1.70 dB	−0.15 dB	1.70 dB	0.34 dB	
5050.00 MHz	−1.70 dB	−0.11 dB	1.70 dB	0.34 dB	
5250.00 MHz	−1.50 dB	−0.06 dB	1.50 dB	0.34 dB	
5450.00 MHz	−1.50 dB	−0.09 dB	1.50 dB	0.34 dB	
5650.00 MHz	−1.50 dB	0.02 dB	1.50 dB	0.34 dB	
5850.00 MHz	−1.50 dB	−0.10 dB	1.50 dB	0.34 dB	
6050.00 MHz	−1.50 dB	−0.05 dB	1.50 dB	0.34 dB	
6250.00 MHz	−1.50 dB	−0.09 dB	1.50 dB	0.34 dB	
6450.00 MHz	−1.50 dB	−0.09 dB	1.50 dB	0.34 dB	
6650.00 MHz	−1.50 dB	−0.06 dB	1.50 dB	0.34 dB	
6850.00 MHz	−1.50 dB	−0.08 dB	1.50 dB	0.34 dB	
7050.00 MHz	−1.50 dB	−0.09 dB	1.50 dB	0.34 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
7250.00 MHz	−1.50 dB	−0.10 dB	1.50 dB	0.34 dB	
7450.00 MHz	−1.50 dB	−0.11 dB	1.50 dB	0.34 dB	
7650.00 MHz	−1.50 dB	−0.10 dB	1.50 dB	0.34 dB	
7850.00 MHz	−1.50 dB	−0.04 dB	1.50 dB	0.34 dB	
8050.00 MHz	−1.50 dB	−0.09 dB	1.50 dB	0.34 dB	
8250.00 MHz	−1.50 dB	−0.08 dB	1.50 dB	0.34 dB	
8350.00 MHz	−1.50 dB	−0.05 dB	1.50 dB	0.34 dB	
8450.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.34 dB	
8650.00 MHz	−2.00 dB	−0.10 dB	2.00 dB	0.34 dB	
8850.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
9050.00 MHz	−2.00 dB	−0.05 dB	2.00 dB	0.34 dB	
9250.00 MHz	−2.00 dB	0.00 dB	2.00 dB	0.34 dB	
9450.00 MHz	−2.00 dB	0.02 dB	2.00 dB	0.34 dB	
9650.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
9850.00 MHz	−2.00 dB	−0.05 dB	2.00 dB	0.34 dB	
10050.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.34 dB	
10250.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
10450.00 MHz	−2.00 dB	0.01 dB	2.00 dB	0.34 dB	
10650.00 MHz	−2.00 dB	0.04 dB	2.00 dB	0.34 dB	
10850.00 MHz	−2.00 dB	−0.03 dB	2.00 dB	0.34 dB	
11050.00 MHz	−2.00 dB	−0.08 dB	2.00 dB	0.34 dB	
11250.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.34 dB	
11450.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
11650.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.34 dB	
11850.00 MHz	−2.00 dB	−0.04 dB	2.00 dB	0.34 dB	
12050.00 MHz	−2.00 dB	−0.12 dB	2.00 dB	0.34 dB	
12250.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.34 dB	
12450.00 MHz	−2.00 dB	−0.03 dB	2.00 dB	0.34 dB	
12650.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
12850.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.34 dB	
13050.00 MHz	−2.00 dB	−0.04 dB	2.00 dB	0.34 dB	
13250.00 MHz	−2.00 dB	−0.05 dB	2.00 dB	0.34 dB	
13450.00 MHz	−2.00 dB	−0.11 dB	2.00 dB	0.34 dB	
13550.00 MHz	−2.00 dB	0.00 dB	2.00 dB	0.34 dB	
13650.00 MHz	−2.00 dB	0.00 dB	2.00 dB	0.34 dB	
13850.00 MHz	−2.00 dB	0.18 dB	2.00 dB	0.34 dB	
14050.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.34 dB	
14250.00 MHz	−2.00 dB	−0.14 dB	2.00 dB	0.34 dB	
14450.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.34 dB	
14650.00 MHz	−2.00 dB	−0.20 dB	2.00 dB	0.34 dB	
14850.00 MHz	−2.00 dB	−0.23 dB	2.00 dB	0.34 dB	
15050.00 MHz	−2.00 dB	−0.15 dB	2.00 dB	0.34 dB	
15250.00 MHz	−2.00 dB	−0.16 dB	2.00 dB	0.34 dB	
15450.00 MHz	−2.00 dB	−0.18 dB	2.00 dB	0.34 dB	
15650.00 MHz	−2.00 dB	−0.22 dB	2.00 dB	0.34 dB	
15850.00 MHz	−2.00 dB	−0.23 dB	2.00 dB	0.34 dB	
16050.00 MHz	−2.00 dB	−0.13 dB	2.00 dB	0.35 dB	
16250.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.35 dB	
16450.00 MHz	−2.00 dB	0.01 dB	2.00 dB	0.35 dB	
16650.00 MHz	−2.00 dB	−0.11 dB	2.00 dB	0.35 dB	
16850.00 MHz	−2.00 dB	−0.10 dB	2.00 dB	0.35 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
17050.00 MHz	−2.00 dB	−0.02 dB	2.00 dB	0.35 dB	
17250.00 MHz	−2.00 dB	−0.03 dB	2.00 dB	0.35 dB	
17450.00 MHz	−2.00 dB	0.03 dB	2.00 dB	0.35 dB	
17650.00 MHz	−2.00 dB	0.12 dB	2.00 dB	0.35 dB	
17850.00 MHz	−2.00 dB	−0.08 dB	2.00 dB	0.35 dB	
18050.00 MHz	−2.00 dB	−0.26 dB	2.00 dB	0.35 dB	
18250.00 MHz	−2.00 dB	−0.13 dB	2.00 dB	0.35 dB	
18450.00 MHz	−2.00 dB	−0.17 dB	2.00 dB	0.36 dB	
18650.00 MHz	−2.00 dB	−0.14 dB	2.00 dB	0.36 dB	
18850.00 MHz	−2.00 dB	−0.13 dB	2.00 dB	0.36 dB	
19050.00 MHz	−2.00 dB	0.05 dB	2.00 dB	0.36 dB	
19250.00 MHz	−2.00 dB	−0.24 dB	2.00 dB	0.36 dB	
19450.00 MHz	−2.00 dB	−0.22 dB	2.00 dB	0.36 dB	
19650.00 MHz	−2.00 dB	−0.10 dB	2.00 dB	0.36 dB	
19850.00 MHz	−2.00 dB	−0.08 dB	2.00 dB	0.36 dB	
20050.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.36 dB	
20250.00 MHz	−2.00 dB	−0.37 dB	2.00 dB	0.36 dB	
20450.00 MHz	−2.00 dB	−0.19 dB	2.00 dB	0.36 dB	
20650.00 MHz	−2.00 dB	0.06 dB	2.00 dB	0.36 dB	
20850.00 MHz	−2.00 dB	−0.04 dB	2.00 dB	0.36 dB	
21050.00 MHz	−2.00 dB	−0.05 dB	2.00 dB	0.36 dB	
21250.00 MHz	−2.00 dB	−0.03 dB	2.00 dB	0.36 dB	
21450.00 MHz	−2.00 dB	−0.29 dB	2.00 dB	0.36 dB	
21650.00 MHz	−2.00 dB	0.04 dB	2.00 dB	0.36 dB	
21850.00 MHz	−2.00 dB	−0.16 dB	2.00 dB	0.36 dB	
22050.00 MHz	−2.50 dB	−0.21 dB	2.50 dB	0.36 dB	
22250.00 MHz	−2.50 dB	−0.27 dB	2.50 dB	0.36 dB	
22450.00 MHz	−2.50 dB	−0.01 dB	2.50 dB	0.36 dB	
22650.00 MHz	−2.50 dB	−0.09 dB	2.50 dB	0.36 dB	
22850.00 MHz	−2.50 dB	−0.24 dB	2.50 dB	0.36 dB	
23050.00 MHz	−2.50 dB	−0.10 dB	2.50 dB	0.36 dB	
23250.00 MHz	−2.50 dB	−0.18 dB	2.50 dB	0.36 dB	
23450.00 MHz	−2.50 dB	−0.08 dB	2.50 dB	0.36 dB	
23650.00 MHz	−2.50 dB	−0.05 dB	2.50 dB	0.36 dB	
23850.00 MHz	−2.50 dB	−0.08 dB	2.50 dB	0.36 dB	
24050.00 MHz	−2.50 dB	−0.32 dB	2.50 dB	0.37 dB	
24250.00 MHz	−2.50 dB	0.02 dB	2.50 dB	0.37 dB	
24450.00 MHz	−2.50 dB	−0.07 dB	2.50 dB	0.37 dB	
24650.00 MHz	−2.50 dB	−0.09 dB	2.50 dB	0.37 dB	
24850.00 MHz	−2.50 dB	−0.08 dB	2.50 dB	0.37 dB	
25050.00 MHz	−2.50 dB	−0.18 dB	2.50 dB	0.37 dB	
25250.00 MHz	−2.50 dB	−0.30 dB	2.50 dB	0.37 dB	
25450.00 MHz	−2.50 dB	−0.07 dB	2.50 dB	0.37 dB	
25650.00 MHz	−2.50 dB	−0.25 dB	2.50 dB	0.37 dB	
25850.00 MHz	−2.50 dB	−0.35 dB	2.50 dB	0.37 dB	
26050.00 MHz	−2.50 dB	0.07 dB	2.50 dB	0.37 dB	
26250.00 MHz	−2.50 dB	−0.14 dB	2.50 dB	0.37 dB	
26450.00 MHz	−2.50 dB	−0.39 dB	2.50 dB	0.37 dB	
26650.00 MHz	−2.50 dB	−0.16 dB	2.50 dB	0.43 dB	
26850.00 MHz	−2.50 dB	−0.35 dB	2.50 dB	0.43 dB	
27050.00 MHz	−2.50 dB	−0.22 dB	2.50 dB	0.43 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

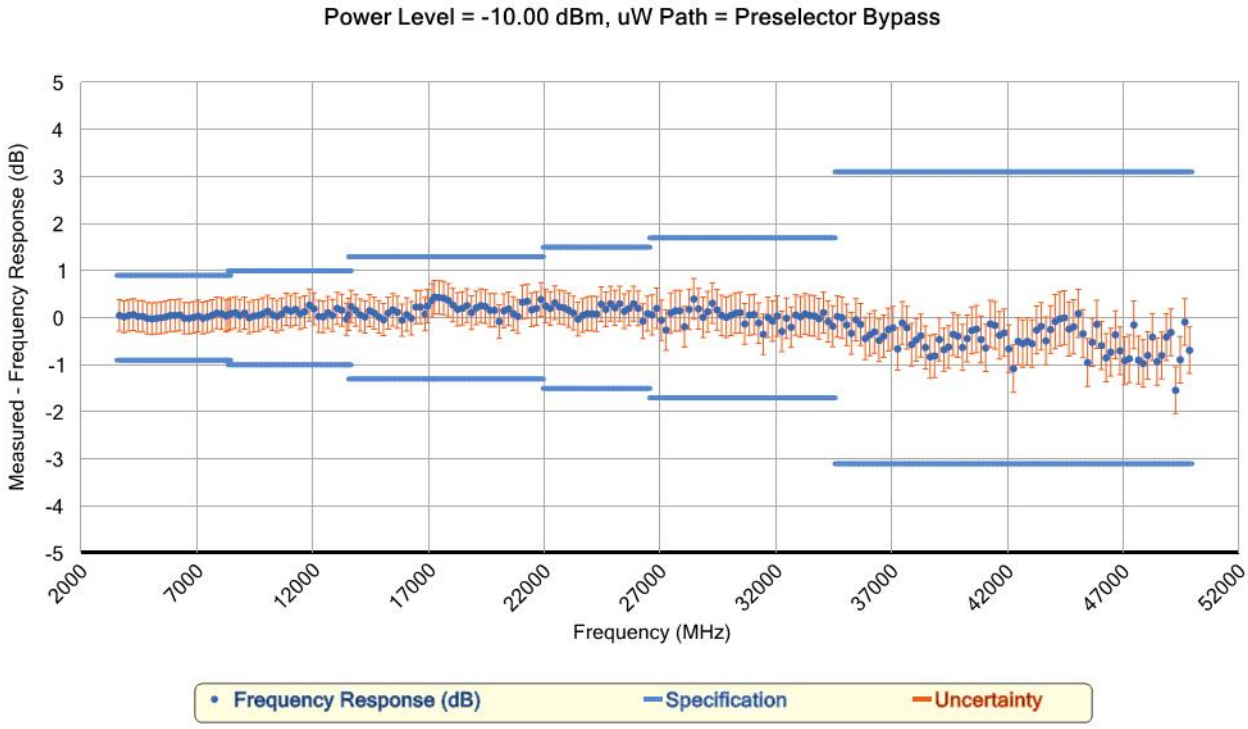
Frequency	Minimum	Measured	Maximum	Uncert.	Status
27250.00 MHz	−2.50 dB	−0.33 dB	2.50 dB	0.43 dB	
27450.00 MHz	−2.50 dB	−0.23 dB	2.50 dB	0.43 dB	
27650.00 MHz	−2.50 dB	−0.90 dB	2.50 dB	0.43 dB	
27850.00 MHz	−2.50 dB	−0.11 dB	2.50 dB	0.43 dB	
28050.00 MHz	−2.50 dB	0.16 dB	2.50 dB	0.43 dB	
28250.00 MHz	−2.50 dB	−0.19 dB	2.50 dB	0.43 dB	
28450.00 MHz	−2.50 dB	−0.20 dB	2.50 dB	0.43 dB	
28650.00 MHz	−2.50 dB	−0.04 dB	2.50 dB	0.43 dB	
28850.00 MHz	−2.50 dB	−0.06 dB	2.50 dB	0.43 dB	
29050.00 MHz	−2.50 dB	−0.74 dB	2.50 dB	0.43 dB	
29250.00 MHz	−2.50 dB	−0.06 dB	2.50 dB	0.43 dB	
29450.00 MHz	−2.50 dB	−0.12 dB	2.50 dB	0.43 dB	
29650.00 MHz	−2.50 dB	−0.45 dB	2.50 dB	0.43 dB	
29850.00 MHz	−2.50 dB	−0.36 dB	2.50 dB	0.43 dB	
30050.00 MHz	−2.50 dB	−0.48 dB	2.50 dB	0.43 dB	
30250.00 MHz	−2.50 dB	−0.15 dB	2.50 dB	0.43 dB	
30450.00 MHz	−2.50 dB	−0.83 dB	2.50 dB	0.43 dB	
30650.00 MHz	−2.50 dB	0.23 dB	2.50 dB	0.43 dB	
30850.00 MHz	−2.50 dB	−0.50 dB	2.50 dB	0.43 dB	
31050.00 MHz	−2.50 dB	0.02 dB	2.50 dB	0.43 dB	
31250.00 MHz	−2.50 dB	−0.23 dB	2.50 dB	0.43 dB	
31450.00 MHz	−2.50 dB	−0.15 dB	2.50 dB	0.43 dB	
31650.00 MHz	−2.50 dB	−0.05 dB	2.50 dB	0.43 dB	
31850.00 MHz	−2.50 dB	−0.11 dB	2.50 dB	0.43 dB	
32050.00 MHz	−2.50 dB	−0.69 dB	2.50 dB	0.43 dB	
32250.00 MHz	−2.50 dB	0.11 dB	2.50 dB	0.43 dB	
32450.00 MHz	−2.50 dB	−0.20 dB	2.50 dB	0.43 dB	
32650.00 MHz	−2.50 dB	0.13 dB	2.50 dB	0.43 dB	
32850.00 MHz	−2.50 dB	−0.53 dB	2.50 dB	0.43 dB	
33050.00 MHz	−2.50 dB	−0.23 dB	2.50 dB	0.43 dB	
33250.00 MHz	−2.50 dB	−0.05 dB	2.50 dB	0.43 dB	
33450.00 MHz	−2.50 dB	−0.14 dB	2.50 dB	0.43 dB	
33650.00 MHz	−2.50 dB	−0.19 dB	2.50 dB	0.43 dB	
33850.00 MHz	−2.50 dB	−0.23 dB	2.50 dB	0.44 dB	
34050.00 MHz	−2.50 dB	−0.63 dB	2.50 dB	0.44 dB	
34250.00 MHz	−2.50 dB	−0.01 dB	2.50 dB	0.44 dB	
34450.00 MHz	−2.50 dB	0.03 dB	2.50 dB	0.44 dB	
34650.00 MHz	−3.20 dB	−0.19 dB	3.20 dB	0.44 dB	
34850.00 MHz	−3.20 dB	0.03 dB	3.20 dB	0.44 dB	
35050.00 MHz	−3.20 dB	0.16 dB	3.20 dB	0.44 dB	
35250.00 MHz	−3.20 dB	0.06 dB	3.20 dB	0.44 dB	
35450.00 MHz	−3.20 dB	−0.15 dB	3.20 dB	0.44 dB	
35650.00 MHz	−3.20 dB	−0.20 dB	3.20 dB	0.45 dB	
35850.00 MHz	−3.20 dB	−0.33 dB	3.20 dB	0.45 dB	
36050.00 MHz	−3.20 dB	−0.01 dB	3.20 dB	0.45 dB	
36250.00 MHz	−3.20 dB	−0.11 dB	3.20 dB	0.45 dB	
36450.00 MHz	−3.20 dB	−0.51 dB	3.20 dB	0.45 dB	
36650.00 MHz	−3.20 dB	0.08 dB	3.20 dB	0.45 dB	
36850.00 MHz	−3.20 dB	0.39 dB	3.20 dB	0.45 dB	
37050.00 MHz	−3.20 dB	−0.23 dB	3.20 dB	0.45 dB	
37250.00 MHz	−3.20 dB	−0.25 dB	3.20 dB	0.45 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
37450.00 MHz	−3.20 dB	0.26 dB	3.20 dB	0.45 dB	
37650.00 MHz	−3.20 dB	−0.03 dB	3.20 dB	0.45 dB	
37850.00 MHz	−3.20 dB	−0.12 dB	3.20 dB	0.45 dB	
38050.00 MHz	−3.20 dB	0.29 dB	3.20 dB	0.45 dB	
38250.00 MHz	−3.20 dB	0.05 dB	3.20 dB	0.46 dB	
38450.00 MHz	−3.20 dB	0.00 dB	3.20 dB	0.46 dB	
38650.00 MHz	−3.20 dB	−0.22 dB	3.20 dB	0.46 dB	
38850.00 MHz	−3.20 dB	−0.31 dB	3.20 dB	0.46 dB	
39050.00 MHz	−3.20 dB	0.17 dB	3.20 dB	0.46 dB	
39250.00 MHz	−3.20 dB	−0.43 dB	3.20 dB	0.46 dB	
39450.00 MHz	−3.20 dB	−0.62 dB	3.20 dB	0.46 dB	
39650.00 MHz	−3.20 dB	−0.10 dB	3.20 dB	0.45 dB	
39850.00 MHz	−3.20 dB	−0.16 dB	3.20 dB	0.45 dB	
40050.00 MHz	−3.20 dB	−0.76 dB	3.20 dB	0.49 dB	
40250.00 MHz	−3.20 dB	−0.20 dB	3.20 dB	0.50 dB	
40450.00 MHz	−3.20 dB	0.04 dB	3.20 dB	0.50 dB	
40650.00 MHz	−3.20 dB	−0.27 dB	3.20 dB	0.50 dB	
40850.00 MHz	−3.20 dB	−0.14 dB	3.20 dB	0.50 dB	
41050.00 MHz	−3.20 dB	0.03 dB	3.20 dB	0.50 dB	
41250.00 MHz	−3.20 dB	−0.25 dB	3.20 dB	0.50 dB	
41450.00 MHz	−3.20 dB	−0.14 dB	3.20 dB	0.50 dB	
41650.00 MHz	−3.20 dB	−0.43 dB	3.20 dB	0.50 dB	
41850.00 MHz	−3.20 dB	0.11 dB	3.20 dB	0.50 dB	
42050.00 MHz	−3.20 dB	−0.26 dB	3.20 dB	0.50 dB	
42250.00 MHz	−3.20 dB	−0.31 dB	3.20 dB	0.50 dB	
42450.00 MHz	−3.20 dB	−0.73 dB	3.20 dB	0.51 dB	
42650.00 MHz	−3.20 dB	−0.46 dB	3.20 dB	0.51 dB	
42850.00 MHz	−3.20 dB	−0.02 dB	3.20 dB	0.51 dB	
43050.00 MHz	−3.20 dB	−0.29 dB	3.20 dB	0.51 dB	
43250.00 MHz	−3.20 dB	0.14 dB	3.20 dB	0.51 dB	
43450.00 MHz	−3.20 dB	−0.75 dB	3.20 dB	0.51 dB	
43650.00 MHz	−3.20 dB	−0.37 dB	3.20 dB	0.51 dB	
43850.00 MHz	−3.20 dB	0.20 dB	3.20 dB	0.51 dB	
44050.00 MHz	−3.20 dB	−0.41 dB	3.20 dB	0.57 dB	
44250.00 MHz	−3.20 dB	−0.72 dB	3.20 dB	0.57 dB	
44450.00 MHz	−3.20 dB	−0.61 dB	3.20 dB	0.58 dB	
44650.00 MHz	−3.20 dB	0.00 dB	3.20 dB	0.58 dB	
44850.00 MHz	−3.20 dB	−0.31 dB	3.20 dB	0.58 dB	
45050.00 MHz	−3.20 dB	−0.46 dB	3.20 dB	0.51 dB	
45250.00 MHz	−3.20 dB	−0.60 dB	3.20 dB	0.51 dB	
45450.00 MHz	−3.20 dB	−0.24 dB	3.20 dB	0.51 dB	
45650.00 MHz	−3.20 dB	−0.36 dB	3.20 dB	0.51 dB	
45850.00 MHz	−3.20 dB	−0.19 dB	3.20 dB	0.51 dB	
46050.00 MHz	−3.20 dB	−0.57 dB	3.20 dB	0.51 dB	
46250.00 MHz	−3.20 dB	−0.53 dB	3.20 dB	0.51 dB	
46450.00 MHz	−3.20 dB	−0.22 dB	3.20 dB	0.51 dB	
46650.00 MHz	−3.20 dB	−0.36 dB	3.20 dB	0.51 dB	
46850.00 MHz	−3.20 dB	−0.34 dB	3.20 dB	0.51 dB	
47050.00 MHz	−3.20 dB	−0.73 dB	3.20 dB	0.51 dB	
47250.00 MHz	−3.20 dB	−0.22 dB	3.20 dB	0.51 dB	
47450.00 MHz	−3.20 dB	−0.23 dB	3.20 dB	0.51 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
47650.00 MHz	−3.20 dB	−0.20 dB	3.20 dB	0.51 dB	
47850.00 MHz	−3.20 dB	−0.65 dB	3.20 dB	0.50 dB	
48050.00 MHz	−3.20 dB	−0.26 dB	3.20 dB	0.50 dB	
48250.00 MHz	−3.20 dB	−0.06 dB	3.20 dB	0.50 dB	
48450.00 MHz	−3.20 dB	−0.59 dB	3.20 dB	0.50 dB	
48650.00 MHz	−3.20 dB	−0.67 dB	3.20 dB	0.50 dB	
48850.00 MHz	−3.20 dB	−0.29 dB	3.20 dB	0.50 dB	
49050.00 MHz	−3.20 dB	−0.33 dB	3.20 dB	0.50 dB	
49250.00 MHz	−3.20 dB	−0.91 dB	3.20 dB	0.50 dB	
49450.00 MHz	−3.20 dB	−0.11 dB	3.20 dB	0.49 dB	
49650.00 MHz	−3.20 dB	−0.45 dB	3.20 dB	0.49 dB	
49850.00 MHz	−3.20 dB	−0.91 dB	3.20 dB	0.49 dB	



Power Level = -10.00 dBm, uW Path = Preselector Bypass

Frequency	Minimum	Measured	Maximum	Uncert.	Status
3650.00 MHz	−0.90 dB	0.05 dB	0.90 dB	0.34 dB	
3850.00 MHz	−0.90 dB	0.02 dB	0.90 dB	0.34 dB	
4050.00 MHz	−0.90 dB	0.05 dB	0.90 dB	0.34 dB	
4250.00 MHz	−0.90 dB	0.07 dB	0.90 dB	0.34 dB	
4450.00 MHz	−0.90 dB	0.03 dB	0.90 dB	0.34 dB	
4650.00 MHz	−0.90 dB	0.03 dB	0.90 dB	0.34 dB	
4850.00 MHz	−0.90 dB	−0.01 dB	0.90 dB	0.34 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
5050.00 MHz	−0.90 dB	−0.02 dB	0.90 dB	0.34 dB	
5250.00 MHz	−0.90 dB	−0.01 dB	0.90 dB	0.34 dB	
5450.00 MHz	−0.90 dB	0.00 dB	0.90 dB	0.34 dB	
5650.00 MHz	−0.90 dB	0.02 dB	0.90 dB	0.34 dB	
5850.00 MHz	−0.90 dB	0.05 dB	0.90 dB	0.34 dB	
6050.00 MHz	−0.90 dB	0.05 dB	0.90 dB	0.34 dB	
6250.00 MHz	−0.90 dB	0.06 dB	0.90 dB	0.34 dB	
6450.00 MHz	−0.90 dB	−0.01 dB	0.90 dB	0.34 dB	
6650.00 MHz	−0.90 dB	−0.01 dB	0.90 dB	0.34 dB	
6850.00 MHz	−0.90 dB	0.01 dB	0.90 dB	0.34 dB	
7050.00 MHz	−0.90 dB	0.04 dB	0.90 dB	0.34 dB	
7250.00 MHz	−0.90 dB	−0.01 dB	0.90 dB	0.34 dB	
7450.00 MHz	−0.90 dB	0.02 dB	0.90 dB	0.34 dB	
7650.00 MHz	−0.90 dB	0.05 dB	0.90 dB	0.34 dB	
7850.00 MHz	−0.90 dB	0.10 dB	0.90 dB	0.34 dB	
8050.00 MHz	−0.90 dB	0.09 dB	0.90 dB	0.34 dB	
8250.00 MHz	−0.90 dB	0.04 dB	0.90 dB	0.34 dB	
8350.00 MHz	−0.90 dB	0.06 dB	0.90 dB	0.34 dB	
8450.00 MHz	−1.00 dB	0.09 dB	1.00 dB	0.34 dB	
8650.00 MHz	−1.00 dB	0.11 dB	1.00 dB	0.34 dB	
8850.00 MHz	−1.00 dB	0.05 dB	1.00 dB	0.34 dB	
9050.00 MHz	−1.00 dB	0.10 dB	1.00 dB	0.34 dB	
9250.00 MHz	−1.00 dB	0.00 dB	1.00 dB	0.34 dB	
9450.00 MHz	−1.00 dB	0.04 dB	1.00 dB	0.34 dB	
9650.00 MHz	−1.00 dB	0.05 dB	1.00 dB	0.34 dB	
9850.00 MHz	−1.00 dB	0.09 dB	1.00 dB	0.34 dB	
10050.00 MHz	−1.00 dB	0.14 dB	1.00 dB	0.34 dB	
10250.00 MHz	−1.00 dB	0.07 dB	1.00 dB	0.34 dB	
10450.00 MHz	−1.00 dB	0.03 dB	1.00 dB	0.34 dB	
10650.00 MHz	−1.00 dB	0.08 dB	1.00 dB	0.34 dB	
10850.00 MHz	−1.00 dB	0.18 dB	1.00 dB	0.34 dB	
11050.00 MHz	−1.00 dB	0.14 dB	1.00 dB	0.34 dB	
11250.00 MHz	−1.00 dB	0.18 dB	1.00 dB	0.34 dB	
11450.00 MHz	−1.00 dB	0.09 dB	1.00 dB	0.34 dB	
11650.00 MHz	−1.00 dB	0.13 dB	1.00 dB	0.34 dB	
11850.00 MHz	−1.00 dB	0.27 dB	1.00 dB	0.34 dB	
12050.00 MHz	−1.00 dB	0.19 dB	1.00 dB	0.34 dB	
12250.00 MHz	−1.00 dB	0.03 dB	1.00 dB	0.34 dB	
12450.00 MHz	−1.00 dB	0.02 dB	1.00 dB	0.34 dB	
12650.00 MHz	−1.00 dB	0.11 dB	1.00 dB	0.34 dB	
12850.00 MHz	−1.00 dB	0.05 dB	1.00 dB	0.34 dB	
13050.00 MHz	−1.00 dB	0.20 dB	1.00 dB	0.34 dB	
13250.00 MHz	−1.00 dB	0.16 dB	1.00 dB	0.34 dB	
13450.00 MHz	−1.00 dB	−0.03 dB	1.00 dB	0.34 dB	
13550.00 MHz	−1.00 dB	0.07 dB	1.00 dB	0.34 dB	
13650.00 MHz	−1.30 dB	0.24 dB	1.30 dB	0.34 dB	
13850.00 MHz	−1.30 dB	0.16 dB	1.30 dB	0.34 dB	
14050.00 MHz	−1.30 dB	0.06 dB	1.30 dB	0.34 dB	
14250.00 MHz	−1.30 dB	0.02 dB	1.30 dB	0.34 dB	
14450.00 MHz	−1.30 dB	0.15 dB	1.30 dB	0.34 dB	
14650.00 MHz	−1.30 dB	0.10 dB	1.30 dB	0.34 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
14850.00 MHz	−1.30 dB	0.02 dB	1.30 dB	0.34 dB	
15050.00 MHz	−1.30 dB	−0.04 dB	1.30 dB	0.34 dB	
15250.00 MHz	−1.30 dB	0.10 dB	1.30 dB	0.34 dB	
15450.00 MHz	−1.30 dB	0.17 dB	1.30 dB	0.34 dB	
15650.00 MHz	−1.30 dB	0.12 dB	1.30 dB	0.34 dB	
15850.00 MHz	−1.30 dB	−0.05 dB	1.30 dB	0.34 dB	
16050.00 MHz	−1.30 dB	0.07 dB	1.30 dB	0.35 dB	
16250.00 MHz	−1.30 dB	−0.01 dB	1.30 dB	0.35 dB	
16450.00 MHz	−1.30 dB	0.23 dB	1.30 dB	0.35 dB	
16650.00 MHz	−1.30 dB	0.23 dB	1.30 dB	0.35 dB	
16850.00 MHz	−1.30 dB	0.08 dB	1.30 dB	0.35 dB	
16950.00 MHz	−1.30 dB	0.25 dB	1.30 dB	0.35 dB	
17150.00 MHz	−1.30 dB	0.37 dB	1.30 dB	0.35 dB	
17250.00 MHz	−1.30 dB	0.44 dB	1.30 dB	0.35 dB	
17450.00 MHz	−1.30 dB	0.43 dB	1.30 dB	0.35 dB	
17650.00 MHz	−1.30 dB	0.42 dB	1.30 dB	0.35 dB	
17850.00 MHz	−1.30 dB	0.37 dB	1.30 dB	0.35 dB	
18050.00 MHz	−1.30 dB	0.27 dB	1.30 dB	0.35 dB	
18250.00 MHz	−1.30 dB	0.18 dB	1.30 dB	0.35 dB	
18450.00 MHz	−1.30 dB	0.20 dB	1.30 dB	0.36 dB	
18650.00 MHz	−1.30 dB	0.26 dB	1.30 dB	0.36 dB	
18850.00 MHz	−1.30 dB	0.11 dB	1.30 dB	0.36 dB	
19050.00 MHz	−1.30 dB	0.21 dB	1.30 dB	0.36 dB	
19250.00 MHz	−1.30 dB	0.26 dB	1.30 dB	0.36 dB	
19450.00 MHz	−1.30 dB	0.24 dB	1.30 dB	0.36 dB	
19650.00 MHz	−1.30 dB	0.16 dB	1.30 dB	0.36 dB	
19850.00 MHz	−1.30 dB	0.16 dB	1.30 dB	0.36 dB	
20050.00 MHz	−1.30 dB	−0.08 dB	1.30 dB	0.36 dB	
20250.00 MHz	−1.30 dB	0.15 dB	1.30 dB	0.36 dB	
20450.00 MHz	−1.30 dB	0.19 dB	1.30 dB	0.36 dB	
20650.00 MHz	−1.30 dB	0.09 dB	1.30 dB	0.36 dB	
20850.00 MHz	−1.30 dB	0.03 dB	1.30 dB	0.36 dB	
21050.00 MHz	−1.30 dB	0.33 dB	1.30 dB	0.36 dB	
21250.00 MHz	−1.30 dB	0.35 dB	1.30 dB	0.36 dB	
21450.00 MHz	−1.30 dB	0.17 dB	1.30 dB	0.36 dB	
21650.00 MHz	−1.30 dB	0.20 dB	1.30 dB	0.36 dB	
21850.00 MHz	−1.30 dB	0.39 dB	1.30 dB	0.36 dB	
22050.00 MHz	−1.50 dB	0.25 dB	1.50 dB	0.36 dB	
22250.00 MHz	−1.50 dB	0.20 dB	1.50 dB	0.36 dB	
22450.00 MHz	−1.50 dB	0.32 dB	1.50 dB	0.36 dB	
22650.00 MHz	−1.50 dB	0.23 dB	1.50 dB	0.36 dB	
22850.00 MHz	−1.50 dB	0.21 dB	1.50 dB	0.36 dB	
23050.00 MHz	−1.50 dB	0.16 dB	1.50 dB	0.36 dB	
23250.00 MHz	−1.50 dB	0.10 dB	1.50 dB	0.36 dB	
23450.00 MHz	−1.50 dB	−0.03 dB	1.50 dB	0.36 dB	
23650.00 MHz	−1.50 dB	0.05 dB	1.50 dB	0.36 dB	
23850.00 MHz	−1.50 dB	0.09 dB	1.50 dB	0.36 dB	
24050.00 MHz	−1.50 dB	0.09 dB	1.50 dB	0.37 dB	
24250.00 MHz	−1.50 dB	0.08 dB	1.50 dB	0.37 dB	
24450.00 MHz	−1.50 dB	0.29 dB	1.50 dB	0.37 dB	
24650.00 MHz	−1.50 dB	0.18 dB	1.50 dB	0.37 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
24850.00 MHz	−1.50 dB	0.30 dB	1.50 dB	0.37 dB	
25050.00 MHz	−1.50 dB	0.21 dB	1.50 dB	0.37 dB	
25250.00 MHz	−1.50 dB	0.30 dB	1.50 dB	0.37 dB	
25450.00 MHz	−1.50 dB	0.14 dB	1.50 dB	0.37 dB	
25650.00 MHz	−1.50 dB	0.20 dB	1.50 dB	0.37 dB	
25850.00 MHz	−1.50 dB	0.30 dB	1.50 dB	0.37 dB	
26050.00 MHz	−1.50 dB	0.20 dB	1.50 dB	0.37 dB	
26250.00 MHz	−1.50 dB	−0.07 dB	1.50 dB	0.37 dB	
26450.00 MHz	−1.50 dB	0.09 dB	1.50 dB	0.37 dB	
26650.00 MHz	−1.70 dB	0.06 dB	1.70 dB	0.43 dB	
26850.00 MHz	−1.70 dB	0.20 dB	1.70 dB	0.43 dB	
27050.00 MHz	−1.70 dB	−0.05 dB	1.70 dB	0.43 dB	
27250.00 MHz	−1.70 dB	−0.26 dB	1.70 dB	0.43 dB	
27450.00 MHz	−1.70 dB	0.10 dB	1.70 dB	0.43 dB	
27650.00 MHz	−1.70 dB	0.15 dB	1.70 dB	0.43 dB	
27850.00 MHz	−1.70 dB	0.15 dB	1.70 dB	0.43 dB	
28050.00 MHz	−1.70 dB	−0.19 dB	1.70 dB	0.43 dB	
28250.00 MHz	−1.70 dB	0.18 dB	1.70 dB	0.43 dB	
28450.00 MHz	−1.70 dB	0.40 dB	1.70 dB	0.43 dB	
28650.00 MHz	−1.70 dB	0.19 dB	1.70 dB	0.43 dB	
28850.00 MHz	−1.70 dB	0.01 dB	1.70 dB	0.43 dB	
29050.00 MHz	−1.70 dB	0.13 dB	1.70 dB	0.43 dB	
29250.00 MHz	−1.70 dB	0.31 dB	1.70 dB	0.43 dB	
29450.00 MHz	−1.70 dB	0.17 dB	1.70 dB	0.43 dB	
29650.00 MHz	−1.70 dB	0.05 dB	1.70 dB	0.43 dB	
29850.00 MHz	−1.70 dB	0.01 dB	1.70 dB	0.43 dB	
30050.00 MHz	−1.70 dB	0.05 dB	1.70 dB	0.43 dB	
30250.00 MHz	−1.70 dB	0.10 dB	1.70 dB	0.43 dB	
30450.00 MHz	−1.70 dB	0.11 dB	1.70 dB	0.43 dB	
30650.00 MHz	−1.70 dB	−0.13 dB	1.70 dB	0.43 dB	
30850.00 MHz	−1.70 dB	0.06 dB	1.70 dB	0.43 dB	
31050.00 MHz	−1.70 dB	0.07 dB	1.70 dB	0.43 dB	
31250.00 MHz	−1.70 dB	−0.11 dB	1.70 dB	0.43 dB	
31450.00 MHz	−1.70 dB	−0.35 dB	1.70 dB	0.43 dB	
31650.00 MHz	−1.70 dB	0.01 dB	1.70 dB	0.43 dB	
31850.00 MHz	−1.70 dB	−0.07 dB	1.70 dB	0.43 dB	
32050.00 MHz	−1.70 dB	0.04 dB	1.70 dB	0.43 dB	
32250.00 MHz	−1.70 dB	−0.29 dB	1.70 dB	0.43 dB	
32450.00 MHz	−1.70 dB	−0.01 dB	1.70 dB	0.43 dB	
32650.00 MHz	−1.70 dB	−0.20 dB	1.70 dB	0.43 dB	
32850.00 MHz	−1.70 dB	0.06 dB	1.70 dB	0.43 dB	
33050.00 MHz	−1.70 dB	0.02 dB	1.70 dB	0.43 dB	
33250.00 MHz	−1.70 dB	0.08 dB	1.70 dB	0.43 dB	
33450.00 MHz	−1.70 dB	0.05 dB	1.70 dB	0.43 dB	
33650.00 MHz	−1.70 dB	0.04 dB	1.70 dB	0.43 dB	
33850.00 MHz	−1.70 dB	−0.02 dB	1.70 dB	0.44 dB	
34050.00 MHz	−1.70 dB	0.11 dB	1.70 dB	0.44 dB	
34250.00 MHz	−1.70 dB	−0.08 dB	1.70 dB	0.44 dB	
34450.00 MHz	−1.70 dB	−0.18 dB	1.70 dB	0.44 dB	
34650.00 MHz	−3.10 dB	0.03 dB	3.10 dB	0.44 dB	
34850.00 MHz	−3.10 dB	0.00 dB	3.10 dB	0.44 dB	

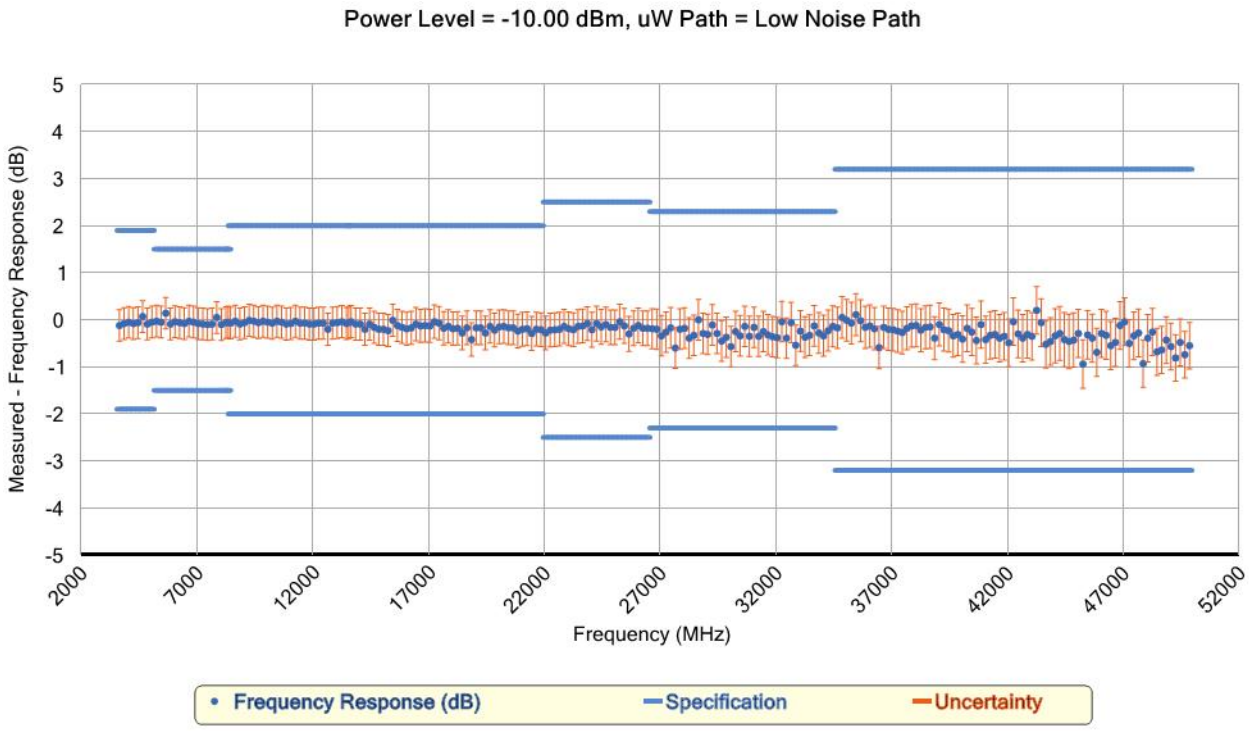
Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
35050.00 MHz	−3.10 dB	−0.15 dB	3.10 dB	0.44 dB	
35250.00 MHz	−3.10 dB	−0.33 dB	3.10 dB	0.44 dB	
35450.00 MHz	−3.10 dB	−0.04 dB	3.10 dB	0.44 dB	
35650.00 MHz	−3.10 dB	−0.14 dB	3.10 dB	0.45 dB	
35850.00 MHz	−3.10 dB	−0.44 dB	3.10 dB	0.45 dB	
36050.00 MHz	−3.10 dB	−0.36 dB	3.10 dB	0.45 dB	
36250.00 MHz	−3.10 dB	−0.30 dB	3.10 dB	0.45 dB	
36450.00 MHz	−3.10 dB	−0.48 dB	3.10 dB	0.45 dB	
36650.00 MHz	−3.10 dB	−0.39 dB	3.10 dB	0.45 dB	
36850.00 MHz	−3.10 dB	−0.25 dB	3.10 dB	0.45 dB	
37050.00 MHz	−3.10 dB	−0.21 dB	3.10 dB	0.45 dB	
37250.00 MHz	−3.10 dB	−0.66 dB	3.10 dB	0.45 dB	
37450.00 MHz	−3.10 dB	−0.11 dB	3.10 dB	0.45 dB	
37650.00 MHz	−3.10 dB	−0.21 dB	3.10 dB	0.45 dB	
37850.00 MHz	−3.10 dB	−0.57 dB	3.10 dB	0.45 dB	
38050.00 MHz	−3.10 dB	−0.47 dB	3.10 dB	0.45 dB	
38250.00 MHz	−3.10 dB	−0.38 dB	3.10 dB	0.46 dB	
38450.00 MHz	−3.10 dB	−0.63 dB	3.10 dB	0.46 dB	
38650.00 MHz	−3.10 dB	−0.83 dB	3.10 dB	0.46 dB	
38850.00 MHz	−3.10 dB	−0.81 dB	3.10 dB	0.46 dB	
39050.00 MHz	−3.10 dB	−0.46 dB	3.10 dB	0.46 dB	
39250.00 MHz	−3.10 dB	−0.68 dB	3.10 dB	0.46 dB	
39450.00 MHz	−3.10 dB	−0.62 dB	3.10 dB	0.46 dB	
39650.00 MHz	−3.10 dB	−0.35 dB	3.10 dB	0.45 dB	
39850.00 MHz	−3.10 dB	−0.39 dB	3.10 dB	0.45 dB	
40050.00 MHz	−3.10 dB	−0.63 dB	3.10 dB	0.49 dB	
40250.00 MHz	−3.10 dB	−0.44 dB	3.10 dB	0.50 dB	
40450.00 MHz	−3.10 dB	−0.27 dB	3.10 dB	0.50 dB	
40650.00 MHz	−3.10 dB	−0.24 dB	3.10 dB	0.50 dB	
40850.00 MHz	−3.10 dB	−0.46 dB	3.10 dB	0.50 dB	
41050.00 MHz	−3.10 dB	−0.64 dB	3.10 dB	0.50 dB	
41250.00 MHz	−3.10 dB	−0.13 dB	3.10 dB	0.50 dB	
41450.00 MHz	−3.10 dB	−0.16 dB	3.10 dB	0.50 dB	
41650.00 MHz	−3.10 dB	−0.37 dB	3.10 dB	0.50 dB	
41850.00 MHz	−3.10 dB	−0.32 dB	3.10 dB	0.50 dB	
42050.00 MHz	−3.10 dB	−0.66 dB	3.10 dB	0.50 dB	
42250.00 MHz	−3.10 dB	−1.08 dB	3.10 dB	0.50 dB	
42450.00 MHz	−3.10 dB	−0.50 dB	3.10 dB	0.51 dB	
42650.00 MHz	−3.10 dB	−0.55 dB	3.10 dB	0.51 dB	
42850.00 MHz	−3.10 dB	−0.50 dB	3.10 dB	0.51 dB	
43050.00 MHz	−3.10 dB	−0.55 dB	3.10 dB	0.51 dB	
43250.00 MHz	−3.10 dB	−0.26 dB	3.10 dB	0.51 dB	
43450.00 MHz	−3.10 dB	−0.18 dB	3.10 dB	0.51 dB	
43650.00 MHz	−3.10 dB	−0.49 dB	3.10 dB	0.51 dB	
43850.00 MHz	−3.10 dB	−0.25 dB	3.10 dB	0.51 dB	
44050.00 MHz	−3.10 dB	−0.08 dB	3.10 dB	0.57 dB	
44250.00 MHz	−3.10 dB	−0.02 dB	3.10 dB	0.57 dB	
44450.00 MHz	−3.10 dB	0.00 dB	3.10 dB	0.58 dB	
44650.00 MHz	−3.10 dB	−0.24 dB	3.10 dB	0.58 dB	
44850.00 MHz	−3.10 dB	−0.19 dB	3.10 dB	0.58 dB	
45050.00 MHz	−3.10 dB	0.09 dB	3.10 dB	0.51 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
45250.00 MHz	−3.10 dB	−0.34 dB	3.10 dB	0.51 dB	
45450.00 MHz	−3.10 dB	−0.95 dB	3.10 dB	0.51 dB	
45650.00 MHz	−3.10 dB	−0.52 dB	3.10 dB	0.51 dB	
45850.00 MHz	−3.10 dB	−0.14 dB	3.10 dB	0.51 dB	
46050.00 MHz	−3.10 dB	−0.59 dB	3.10 dB	0.51 dB	
46250.00 MHz	−3.10 dB	−0.85 dB	3.10 dB	0.51 dB	
46450.00 MHz	−3.10 dB	−0.73 dB	3.10 dB	0.51 dB	
46650.00 MHz	−3.10 dB	−0.36 dB	3.10 dB	0.51 dB	
46850.00 MHz	−3.10 dB	−0.70 dB	3.10 dB	0.51 dB	
47050.00 MHz	−3.10 dB	−0.91 dB	3.10 dB	0.51 dB	
47250.00 MHz	−3.10 dB	−0.87 dB	3.10 dB	0.51 dB	
47450.00 MHz	−3.10 dB	−0.15 dB	3.10 dB	0.51 dB	
47650.00 MHz	−3.10 dB	−0.90 dB	3.10 dB	0.51 dB	
47850.00 MHz	−3.10 dB	−0.97 dB	3.10 dB	0.50 dB	
48050.00 MHz	−3.10 dB	−0.80 dB	3.10 dB	0.50 dB	
48250.00 MHz	−3.10 dB	−0.41 dB	3.10 dB	0.50 dB	
48450.00 MHz	−3.10 dB	−0.93 dB	3.10 dB	0.50 dB	
48650.00 MHz	−3.10 dB	−0.80 dB	3.10 dB	0.50 dB	
48850.00 MHz	−3.10 dB	−0.41 dB	3.10 dB	0.50 dB	
49050.00 MHz	−3.10 dB	−0.31 dB	3.10 dB	0.50 dB	
49250.00 MHz	−3.10 dB	−1.54 dB	3.10 dB	0.50 dB	
49450.00 MHz	−3.10 dB	−0.89 dB	3.10 dB	0.49 dB	
49650.00 MHz	−3.10 dB	−0.09 dB	3.10 dB	0.49 dB	
49850.00 MHz	−3.10 dB	−0.69 dB	3.10 dB	0.49 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)



Power Level = -10.00 dBm, uW Path = Low Noise Path

Frequency	Minimum	Measured	Maximum	Uncert.	Status
3650.00 MHz	−1.90 dB	−0.12 dB	1.90 dB	0.34 dB	
3850.00 MHz	−1.90 dB	−0.08 dB	1.90 dB	0.34 dB	
4050.00 MHz	−1.90 dB	−0.05 dB	1.90 dB	0.34 dB	
4250.00 MHz	−1.90 dB	−0.08 dB	1.90 dB	0.34 dB	
4450.00 MHz	−1.90 dB	−0.06 dB	1.90 dB	0.34 dB	
4650.00 MHz	−1.90 dB	0.07 dB	1.90 dB	0.34 dB	
4850.00 MHz	−1.90 dB	−0.09 dB	1.90 dB	0.34 dB	
5050.00 MHz	−1.90 dB	−0.05 dB	1.90 dB	0.34 dB	
5250.00 MHz	−1.50 dB	−0.03 dB	1.50 dB	0.34 dB	
5450.00 MHz	−1.50 dB	−0.05 dB	1.50 dB	0.34 dB	
5650.00 MHz	−1.50 dB	0.14 dB	1.50 dB	0.34 dB	
5850.00 MHz	−1.50 dB	−0.09 dB	1.50 dB	0.34 dB	
6050.00 MHz	−1.50 dB	−0.04 dB	1.50 dB	0.34 dB	
6250.00 MHz	−1.50 dB	−0.06 dB	1.50 dB	0.34 dB	
6450.00 MHz	−1.50 dB	−0.08 dB	1.50 dB	0.34 dB	
6650.00 MHz	−1.50 dB	−0.03 dB	1.50 dB	0.34 dB	
6850.00 MHz	−1.50 dB	−0.05 dB	1.50 dB	0.34 dB	
7050.00 MHz	−1.50 dB	−0.08 dB	1.50 dB	0.34 dB	
7250.00 MHz	−1.50 dB	−0.09 dB	1.50 dB	0.34 dB	
7450.00 MHz	−1.50 dB	−0.10 dB	1.50 dB	0.34 dB	
7650.00 MHz	−1.50 dB	−0.09 dB	1.50 dB	0.34 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
7850.00 MHz	−1.50 dB	0.05 dB	1.50 dB	0.34 dB	
8050.00 MHz	−1.50 dB	−0.10 dB	1.50 dB	0.34 dB	
8250.00 MHz	−1.50 dB	−0.06 dB	1.50 dB	0.34 dB	
8350.00 MHz	−1.50 dB	−0.05 dB	1.50 dB	0.34 dB	
8450.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
8650.00 MHz	−2.00 dB	−0.03 dB	2.00 dB	0.34 dB	
8850.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.34 dB	
9050.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.34 dB	
9250.00 MHz	−2.00 dB	−0.01 dB	2.00 dB	0.34 dB	
9450.00 MHz	−2.00 dB	−0.03 dB	2.00 dB	0.34 dB	
9650.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.34 dB	
9850.00 MHz	−2.00 dB	−0.03 dB	2.00 dB	0.34 dB	
10050.00 MHz	−2.00 dB	−0.05 dB	2.00 dB	0.34 dB	
10250.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
10450.00 MHz	−2.00 dB	−0.03 dB	2.00 dB	0.34 dB	
10650.00 MHz	−2.00 dB	−0.05 dB	2.00 dB	0.34 dB	
10850.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.34 dB	
11050.00 MHz	−2.00 dB	−0.08 dB	2.00 dB	0.34 dB	
11250.00 MHz	−2.00 dB	−0.03 dB	2.00 dB	0.34 dB	
11450.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
11650.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
11850.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.34 dB	
12050.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.34 dB	
12250.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
12450.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
12650.00 MHz	−2.00 dB	−0.20 dB	2.00 dB	0.34 dB	
12850.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.34 dB	
13050.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.34 dB	
13250.00 MHz	−2.00 dB	−0.04 dB	2.00 dB	0.34 dB	
13450.00 MHz	−2.00 dB	−0.08 dB	2.00 dB	0.34 dB	
13550.00 MHz	−2.00 dB	−0.06 dB	2.00 dB	0.34 dB	
13650.00 MHz	−2.00 dB	−0.04 dB	2.00 dB	0.34 dB	
13850.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.34 dB	
14050.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.34 dB	
14250.00 MHz	−2.00 dB	−0.20 dB	2.00 dB	0.34 dB	
14450.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.34 dB	
14650.00 MHz	−2.00 dB	−0.16 dB	2.00 dB	0.34 dB	
14850.00 MHz	−2.00 dB	−0.20 dB	2.00 dB	0.34 dB	
15050.00 MHz	−2.00 dB	−0.20 dB	2.00 dB	0.34 dB	
15250.00 MHz	−2.00 dB	−0.23 dB	2.00 dB	0.34 dB	
15450.00 MHz	−2.00 dB	−0.01 dB	2.00 dB	0.34 dB	
15650.00 MHz	−2.00 dB	−0.12 dB	2.00 dB	0.34 dB	
15850.00 MHz	−2.00 dB	−0.16 dB	2.00 dB	0.34 dB	
16050.00 MHz	−2.00 dB	−0.19 dB	2.00 dB	0.35 dB	
16250.00 MHz	−2.00 dB	−0.17 dB	2.00 dB	0.35 dB	
16450.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.35 dB	
16650.00 MHz	−2.00 dB	−0.13 dB	2.00 dB	0.35 dB	
16850.00 MHz	−2.00 dB	−0.12 dB	2.00 dB	0.35 dB	
17050.00 MHz	−2.00 dB	−0.13 dB	2.00 dB	0.35 dB	
17250.00 MHz	−2.00 dB	−0.04 dB	2.00 dB	0.35 dB	
17450.00 MHz	−2.00 dB	−0.07 dB	2.00 dB	0.35 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
17650.00 MHz	−2.00 dB	−0.18 dB	2.00 dB	0.35 dB	
17850.00 MHz	−2.00 dB	−0.14 dB	2.00 dB	0.35 dB	
18050.00 MHz	−2.00 dB	−0.19 dB	2.00 dB	0.35 dB	
18250.00 MHz	−2.00 dB	−0.18 dB	2.00 dB	0.35 dB	
18450.00 MHz	−2.00 dB	−0.28 dB	2.00 dB	0.36 dB	
18650.00 MHz	−2.00 dB	−0.17 dB	2.00 dB	0.36 dB	
18850.00 MHz	−2.00 dB	−0.42 dB	2.00 dB	0.36 dB	
19050.00 MHz	−2.00 dB	−0.17 dB	2.00 dB	0.36 dB	
19250.00 MHz	−2.00 dB	−0.17 dB	2.00 dB	0.36 dB	
19450.00 MHz	−2.00 dB	−0.28 dB	2.00 dB	0.36 dB	
19650.00 MHz	−2.00 dB	−0.14 dB	2.00 dB	0.36 dB	
19850.00 MHz	−2.00 dB	−0.22 dB	2.00 dB	0.36 dB	
20050.00 MHz	−2.00 dB	−0.15 dB	2.00 dB	0.36 dB	
20250.00 MHz	−2.00 dB	−0.14 dB	2.00 dB	0.36 dB	
20450.00 MHz	−2.00 dB	−0.17 dB	2.00 dB	0.36 dB	
20650.00 MHz	−2.00 dB	−0.17 dB	2.00 dB	0.36 dB	
20850.00 MHz	−2.00 dB	−0.24 dB	2.00 dB	0.36 dB	
21050.00 MHz	−2.00 dB	−0.20 dB	2.00 dB	0.36 dB	
21250.00 MHz	−2.00 dB	−0.19 dB	2.00 dB	0.36 dB	
21450.00 MHz	−2.00 dB	−0.29 dB	2.00 dB	0.36 dB	
21650.00 MHz	−2.00 dB	−0.20 dB	2.00 dB	0.36 dB	
21850.00 MHz	−2.00 dB	−0.21 dB	2.00 dB	0.36 dB	
22050.00 MHz	−2.50 dB	−0.28 dB	2.50 dB	0.36 dB	
22250.00 MHz	−2.50 dB	−0.22 dB	2.50 dB	0.36 dB	
22450.00 MHz	−2.50 dB	−0.21 dB	2.50 dB	0.36 dB	
22650.00 MHz	−2.50 dB	−0.20 dB	2.50 dB	0.36 dB	
22850.00 MHz	−2.50 dB	−0.14 dB	2.50 dB	0.36 dB	
23050.00 MHz	−2.50 dB	−0.19 dB	2.50 dB	0.36 dB	
23250.00 MHz	−2.50 dB	−0.21 dB	2.50 dB	0.36 dB	
23450.00 MHz	−2.50 dB	−0.14 dB	2.50 dB	0.36 dB	
23650.00 MHz	−2.50 dB	−0.13 dB	2.50 dB	0.36 dB	
23850.00 MHz	−2.50 dB	−0.08 dB	2.50 dB	0.36 dB	
24050.00 MHz	−2.50 dB	−0.21 dB	2.50 dB	0.37 dB	
24250.00 MHz	−2.50 dB	−0.08 dB	2.50 dB	0.37 dB	
24450.00 MHz	−2.50 dB	−0.15 dB	2.50 dB	0.37 dB	
24650.00 MHz	−2.50 dB	−0.10 dB	2.50 dB	0.37 dB	
24850.00 MHz	−2.50 dB	−0.16 dB	2.50 dB	0.37 dB	
25050.00 MHz	−2.50 dB	−0.16 dB	2.50 dB	0.37 dB	
25250.00 MHz	−2.50 dB	−0.04 dB	2.50 dB	0.37 dB	
25450.00 MHz	−2.50 dB	−0.13 dB	2.50 dB	0.37 dB	
25650.00 MHz	−2.50 dB	−0.30 dB	2.50 dB	0.37 dB	
25850.00 MHz	−2.50 dB	−0.18 dB	2.50 dB	0.37 dB	
26050.00 MHz	−2.50 dB	−0.12 dB	2.50 dB	0.37 dB	
26250.00 MHz	−2.50 dB	−0.18 dB	2.50 dB	0.37 dB	
26450.00 MHz	−2.50 dB	−0.18 dB	2.50 dB	0.37 dB	
26650.00 MHz	−2.30 dB	−0.19 dB	2.30 dB	0.43 dB	
26850.00 MHz	−2.30 dB	−0.20 dB	2.30 dB	0.43 dB	
27050.00 MHz	−2.30 dB	−0.34 dB	2.30 dB	0.43 dB	
27250.00 MHz	−2.30 dB	−0.26 dB	2.30 dB	0.43 dB	
27450.00 MHz	−2.30 dB	−0.17 dB	2.30 dB	0.43 dB	
27650.00 MHz	−2.30 dB	−0.60 dB	2.30 dB	0.43 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
27850.00 MHz	−2.30 dB	−0.20 dB	2.30 dB	0.43 dB	
28050.00 MHz	−2.30 dB	−0.18 dB	2.30 dB	0.43 dB	
28250.00 MHz	−2.30 dB	−0.39 dB	2.30 dB	0.43 dB	
28450.00 MHz	−2.30 dB	−0.33 dB	2.30 dB	0.43 dB	
28650.00 MHz	−2.30 dB	0.00 dB	2.30 dB	0.43 dB	
28850.00 MHz	−2.30 dB	−0.29 dB	2.30 dB	0.43 dB	
29050.00 MHz	−2.30 dB	−0.31 dB	2.30 dB	0.43 dB	
29250.00 MHz	−2.30 dB	−0.11 dB	2.30 dB	0.43 dB	
29450.00 MHz	−2.30 dB	−0.29 dB	2.30 dB	0.43 dB	
29650.00 MHz	−2.30 dB	−0.45 dB	2.30 dB	0.43 dB	
29850.00 MHz	−2.30 dB	−0.37 dB	2.30 dB	0.43 dB	
30050.00 MHz	−2.30 dB	−0.57 dB	2.30 dB	0.43 dB	
30250.00 MHz	−2.30 dB	−0.25 dB	2.30 dB	0.43 dB	
30450.00 MHz	−2.30 dB	−0.34 dB	2.30 dB	0.43 dB	
30650.00 MHz	−2.30 dB	−0.14 dB	2.30 dB	0.43 dB	
30850.00 MHz	−2.30 dB	−0.35 dB	2.30 dB	0.43 dB	
31050.00 MHz	−2.30 dB	−0.16 dB	2.30 dB	0.43 dB	
31250.00 MHz	−2.30 dB	−0.35 dB	2.30 dB	0.43 dB	
31450.00 MHz	−2.30 dB	−0.25 dB	2.30 dB	0.43 dB	
31650.00 MHz	−2.30 dB	−0.32 dB	2.30 dB	0.43 dB	
31850.00 MHz	−2.30 dB	−0.36 dB	2.30 dB	0.43 dB	
32050.00 MHz	−2.30 dB	−0.38 dB	2.30 dB	0.43 dB	
32250.00 MHz	−2.30 dB	−0.04 dB	2.30 dB	0.43 dB	
32450.00 MHz	−2.30 dB	−0.39 dB	2.30 dB	0.43 dB	
32650.00 MHz	−2.30 dB	−0.06 dB	2.30 dB	0.43 dB	
32850.00 MHz	−2.30 dB	−0.54 dB	2.30 dB	0.43 dB	
33050.00 MHz	−2.30 dB	−0.24 dB	2.30 dB	0.43 dB	
33250.00 MHz	−2.30 dB	−0.37 dB	2.30 dB	0.43 dB	
33450.00 MHz	−2.30 dB	−0.33 dB	2.30 dB	0.43 dB	
33650.00 MHz	−2.30 dB	−0.13 dB	2.30 dB	0.43 dB	
33850.00 MHz	−2.30 dB	−0.28 dB	2.30 dB	0.44 dB	
34050.00 MHz	−2.30 dB	−0.34 dB	2.30 dB	0.44 dB	
34250.00 MHz	−2.30 dB	−0.23 dB	2.30 dB	0.44 dB	
34450.00 MHz	−2.30 dB	−0.14 dB	2.30 dB	0.44 dB	
34650.00 MHz	−3.20 dB	−0.17 dB	3.20 dB	0.44 dB	
34850.00 MHz	−3.20 dB	0.05 dB	3.20 dB	0.44 dB	
35050.00 MHz	−3.20 dB	−0.01 dB	3.20 dB	0.44 dB	
35250.00 MHz	−3.20 dB	−0.07 dB	3.20 dB	0.44 dB	
35450.00 MHz	−3.20 dB	0.11 dB	3.20 dB	0.44 dB	
35650.00 MHz	−3.20 dB	−0.02 dB	3.20 dB	0.45 dB	
35850.00 MHz	−3.20 dB	−0.16 dB	3.20 dB	0.45 dB	
36050.00 MHz	−3.20 dB	−0.13 dB	3.20 dB	0.45 dB	
36250.00 MHz	−3.20 dB	−0.19 dB	3.20 dB	0.45 dB	
36450.00 MHz	−3.20 dB	−0.59 dB	3.20 dB	0.45 dB	
36650.00 MHz	−3.20 dB	−0.16 dB	3.20 dB	0.45 dB	
36850.00 MHz	−3.20 dB	−0.20 dB	3.20 dB	0.45 dB	
37050.00 MHz	−3.20 dB	−0.21 dB	3.20 dB	0.45 dB	
37250.00 MHz	−3.20 dB	−0.24 dB	3.20 dB	0.45 dB	
37450.00 MHz	−3.20 dB	−0.27 dB	3.20 dB	0.45 dB	
37650.00 MHz	−3.20 dB	−0.18 dB	3.20 dB	0.45 dB	
37850.00 MHz	−3.20 dB	−0.13 dB	3.20 dB	0.45 dB	

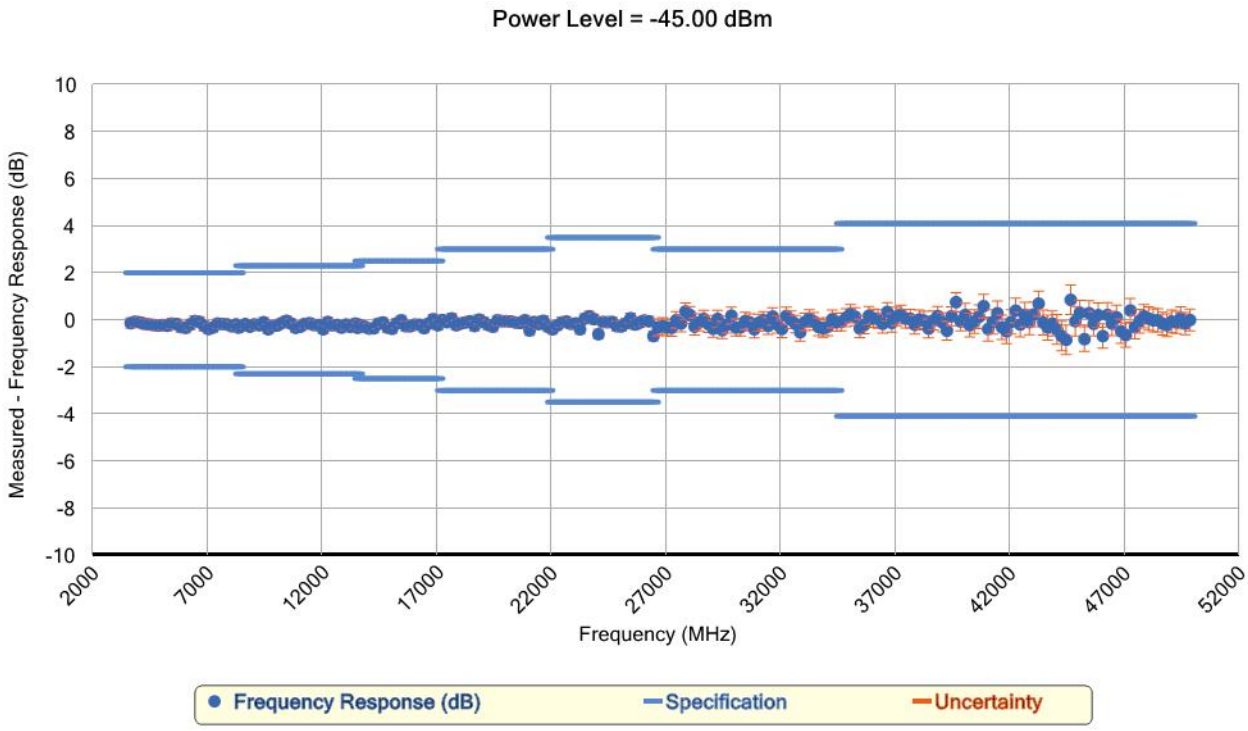
Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
38050.00 MHz	−3.20 dB	−0.12 dB	3.20 dB	0.45 dB	
38250.00 MHz	−3.20 dB	−0.22 dB	3.20 dB	0.46 dB	
38450.00 MHz	−3.20 dB	−0.16 dB	3.20 dB	0.46 dB	
38650.00 MHz	−3.20 dB	−0.15 dB	3.20 dB	0.46 dB	
38850.00 MHz	−3.20 dB	−0.39 dB	3.20 dB	0.46 dB	
39050.00 MHz	−3.20 dB	−0.10 dB	3.20 dB	0.46 dB	
39250.00 MHz	−3.20 dB	−0.21 dB	3.20 dB	0.46 dB	
39450.00 MHz	−3.20 dB	−0.23 dB	3.20 dB	0.46 dB	
39650.00 MHz	−3.20 dB	−0.34 dB	3.20 dB	0.45 dB	
39850.00 MHz	−3.20 dB	−0.31 dB	3.20 dB	0.45 dB	
40050.00 MHz	−3.20 dB	−0.41 dB	3.20 dB	0.49 dB	
40250.00 MHz	−3.20 dB	−0.18 dB	3.20 dB	0.50 dB	
40450.00 MHz	−3.20 dB	−0.26 dB	3.20 dB	0.50 dB	
40650.00 MHz	−3.20 dB	−0.44 dB	3.20 dB	0.50 dB	
40850.00 MHz	−3.20 dB	−0.10 dB	3.20 dB	0.50 dB	
41050.00 MHz	−3.20 dB	−0.42 dB	3.20 dB	0.50 dB	
41250.00 MHz	−3.20 dB	−0.33 dB	3.20 dB	0.50 dB	
41450.00 MHz	−3.20 dB	−0.31 dB	3.20 dB	0.50 dB	
41650.00 MHz	−3.20 dB	−0.39 dB	3.20 dB	0.50 dB	
41850.00 MHz	−3.20 dB	−0.35 dB	3.20 dB	0.50 dB	
42050.00 MHz	−3.20 dB	−0.49 dB	3.20 dB	0.50 dB	
42250.00 MHz	−3.20 dB	−0.04 dB	3.20 dB	0.50 dB	
42450.00 MHz	−3.20 dB	−0.30 dB	3.20 dB	0.51 dB	
42650.00 MHz	−3.20 dB	−0.39 dB	3.20 dB	0.51 dB	
42850.00 MHz	−3.20 dB	−0.31 dB	3.20 dB	0.51 dB	
43050.00 MHz	−3.20 dB	−0.35 dB	3.20 dB	0.51 dB	
43250.00 MHz	−3.20 dB	0.20 dB	3.20 dB	0.51 dB	
43450.00 MHz	−3.20 dB	−0.06 dB	3.20 dB	0.51 dB	
43650.00 MHz	−3.20 dB	−0.52 dB	3.20 dB	0.51 dB	
43850.00 MHz	−3.20 dB	−0.46 dB	3.20 dB	0.51 dB	
44050.00 MHz	−3.20 dB	−0.34 dB	3.20 dB	0.57 dB	
44250.00 MHz	−3.20 dB	−0.29 dB	3.20 dB	0.57 dB	
44450.00 MHz	−3.20 dB	−0.42 dB	3.20 dB	0.58 dB	
44650.00 MHz	−3.20 dB	−0.46 dB	3.20 dB	0.58 dB	
44850.00 MHz	−3.20 dB	−0.43 dB	3.20 dB	0.58 dB	
45050.00 MHz	−3.20 dB	−0.29 dB	3.20 dB	0.51 dB	
45250.00 MHz	−3.20 dB	−0.94 dB	3.20 dB	0.51 dB	
45450.00 MHz	−3.20 dB	−0.32 dB	3.20 dB	0.51 dB	
45650.00 MHz	−3.20 dB	−0.39 dB	3.20 dB	0.51 dB	
45850.00 MHz	−3.20 dB	−0.69 dB	3.20 dB	0.51 dB	
46050.00 MHz	−3.20 dB	−0.29 dB	3.20 dB	0.51 dB	
46250.00 MHz	−3.20 dB	−0.33 dB	3.20 dB	0.51 dB	
46450.00 MHz	−3.20 dB	−0.55 dB	3.20 dB	0.51 dB	
46650.00 MHz	−3.20 dB	−0.48 dB	3.20 dB	0.51 dB	
46850.00 MHz	−3.20 dB	−0.12 dB	3.20 dB	0.51 dB	
47050.00 MHz	−3.20 dB	−0.04 dB	3.20 dB	0.51 dB	
47250.00 MHz	−3.20 dB	−0.50 dB	3.20 dB	0.51 dB	
47450.00 MHz	−3.20 dB	−0.34 dB	3.20 dB	0.51 dB	
47650.00 MHz	−3.20 dB	−0.28 dB	3.20 dB	0.51 dB	
47850.00 MHz	−3.20 dB	−0.93 dB	3.20 dB	0.50 dB	
48050.00 MHz	−3.20 dB	−0.39 dB	3.20 dB	0.50 dB	

Freq Resp Above 3.6 GHz Preamp Off (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
48250.00 MHz	−3.20 dB	−0.26 dB	3.20 dB	0.50 dB	
48450.00 MHz	−3.20 dB	−0.68 dB	3.20 dB	0.50 dB	
48650.00 MHz	−3.20 dB	−0.64 dB	3.20 dB	0.50 dB	
48850.00 MHz	−3.20 dB	−0.43 dB	3.20 dB	0.50 dB	
49050.00 MHz	−3.20 dB	−0.57 dB	3.20 dB	0.50 dB	
49250.00 MHz	−3.20 dB	−0.81 dB	3.20 dB	0.50 dB	
49450.00 MHz	−3.20 dB	−0.48 dB	3.20 dB	0.49 dB	
49650.00 MHz	−3.20 dB	−0.74 dB	3.20 dB	0.49 dB	
49850.00 MHz	−3.20 dB	−0.55 dB	3.20 dB	0.49 dB	

Freq Resp Above 3.6 GHz Preamp On **Passed**



Power Level = -45.00 dBm

Frequency	Minimum	Measured	Maximum	Uncert.	Status
3650.00 MHz	−2.00 dB	−0.14 dB	2.00 dB	0.21 dB	
3850.00 MHz	−2.00 dB	−0.08 dB	2.00 dB	0.21 dB	
4050.00 MHz	−2.00 dB	−0.11 dB	2.00 dB	0.21 dB	
4250.00 MHz	−2.00 dB	−0.17 dB	2.00 dB	0.21 dB	
4450.00 MHz	−2.00 dB	−0.20 dB	2.00 dB	0.21 dB	
4650.00 MHz	−2.00 dB	−0.22 dB	2.00 dB	0.21 dB	
4850.00 MHz	−2.00 dB	−0.24 dB	2.00 dB	0.21 dB	

Freq Resp Above 3.6 GHz Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
5050.00 MHz	−2.00 dB	−0.22 dB	2.00 dB	0.21 dB	
5250.00 MHz	−2.00 dB	−0.25 dB	2.00 dB	0.21 dB	
5450.00 MHz	−2.00 dB	−0.16 dB	2.00 dB	0.21 dB	
5650.00 MHz	−2.00 dB	−0.18 dB	2.00 dB	0.21 dB	
5850.00 MHz	−2.00 dB	−0.31 dB	2.00 dB	0.21 dB	
6050.00 MHz	−2.00 dB	−0.34 dB	2.00 dB	0.22 dB	
6250.00 MHz	−2.00 dB	−0.20 dB	2.00 dB	0.22 dB	
6450.00 MHz	−2.00 dB	−0.05 dB	2.00 dB	0.22 dB	
6650.00 MHz	−2.00 dB	−0.09 dB	2.00 dB	0.22 dB	
6850.00 MHz	−2.00 dB	−0.26 dB	2.00 dB	0.22 dB	
7050.00 MHz	−2.00 dB	−0.39 dB	2.00 dB	0.19 dB	
7250.00 MHz	−2.00 dB	−0.32 dB	2.00 dB	0.19 dB	
7450.00 MHz	−2.00 dB	−0.16 dB	2.00 dB	0.19 dB	
7650.00 MHz	−2.00 dB	−0.18 dB	2.00 dB	0.19 dB	
7850.00 MHz	−2.00 dB	−0.19 dB	2.00 dB	0.19 dB	
8050.00 MHz	−2.00 dB	−0.27 dB	2.00 dB	0.19 dB	
8250.00 MHz	−2.00 dB	−0.19 dB	2.00 dB	0.19 dB	
8350.00 MHz	−2.00 dB	−0.33 dB	2.00 dB	0.19 dB	
8450.00 MHz	−2.30 dB	−0.29 dB	2.30 dB	0.19 dB	
8650.00 MHz	−2.30 dB	−0.18 dB	2.30 dB	0.19 dB	
8850.00 MHz	−2.30 dB	−0.29 dB	2.30 dB	0.19 dB	
9050.00 MHz	−2.30 dB	−0.19 dB	2.30 dB	0.19 dB	
9250.00 MHz	−2.30 dB	−0.23 dB	2.30 dB	0.19 dB	
9450.00 MHz	−2.30 dB	−0.10 dB	2.30 dB	0.19 dB	
9650.00 MHz	−2.30 dB	−0.40 dB	2.30 dB	0.19 dB	
9850.00 MHz	−2.30 dB	−0.26 dB	2.30 dB	0.19 dB	
10050.00 MHz	−2.30 dB	−0.24 dB	2.30 dB	0.19 dB	
10250.00 MHz	−2.30 dB	−0.13 dB	2.30 dB	0.19 dB	
10450.00 MHz	−2.30 dB	−0.04 dB	2.30 dB	0.19 dB	
10650.00 MHz	−2.30 dB	−0.16 dB	2.30 dB	0.19 dB	
10850.00 MHz	−2.30 dB	−0.34 dB	2.30 dB	0.19 dB	
11050.00 MHz	−2.30 dB	−0.29 dB	2.30 dB	0.19 dB	
11250.00 MHz	−2.30 dB	−0.17 dB	2.30 dB	0.20 dB	
11450.00 MHz	−2.30 dB	−0.14 dB	2.30 dB	0.19 dB	
11650.00 MHz	−2.30 dB	−0.22 dB	2.30 dB	0.20 dB	
11850.00 MHz	−2.30 dB	−0.22 dB	2.30 dB	0.20 dB	
12050.00 MHz	−2.30 dB	−0.40 dB	2.30 dB	0.20 dB	
12250.00 MHz	−2.30 dB	−0.09 dB	2.30 dB	0.20 dB	
12450.00 MHz	−2.30 dB	−0.23 dB	2.30 dB	0.20 dB	
12650.00 MHz	−2.30 dB	−0.22 dB	2.30 dB	0.20 dB	
12850.00 MHz	−2.30 dB	−0.33 dB	2.30 dB	0.20 dB	
13050.00 MHz	−2.30 dB	−0.20 dB	2.30 dB	0.20 dB	
13250.00 MHz	−2.30 dB	−0.30 dB	2.30 dB	0.20 dB	
13450.00 MHz	−2.30 dB	−0.16 dB	2.30 dB	0.20 dB	
13550.00 MHz	−2.30 dB	−0.34 dB	2.30 dB	0.20 dB	
13650.00 MHz	−2.50 dB	−0.22 dB	2.50 dB	0.20 dB	
13850.00 MHz	−2.50 dB	−0.29 dB	2.50 dB	0.20 dB	
14050.00 MHz	−2.50 dB	−0.37 dB	2.50 dB	0.20 dB	
14250.00 MHz	−2.50 dB	−0.36 dB	2.50 dB	0.20 dB	
14450.00 MHz	−2.50 dB	−0.17 dB	2.50 dB	0.20 dB	
14650.00 MHz	−2.50 dB	−0.11 dB	2.50 dB	0.20 dB	

Freq Resp Above 3.6 GHz Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
14850.00 MHz	−2.50 dB	−0.33 dB	2.50 dB	0.20 dB	
15050.00 MHz	−2.50 dB	−0.38 dB	2.50 dB	0.20 dB	
15250.00 MHz	−2.50 dB	−0.15 dB	2.50 dB	0.20 dB	
15450.00 MHz	−2.50 dB	−0.02 dB	2.50 dB	0.20 dB	
15650.00 MHz	−2.50 dB	−0.27 dB	2.50 dB	0.20 dB	
15850.00 MHz	−2.50 dB	−0.27 dB	2.50 dB	0.20 dB	
16050.00 MHz	−2.50 dB	−0.20 dB	2.50 dB	0.20 dB	
16250.00 MHz	−2.50 dB	−0.21 dB	2.50 dB	0.20 dB	
16450.00 MHz	−2.50 dB	−0.35 dB	2.50 dB	0.20 dB	
16650.00 MHz	−2.50 dB	−0.16 dB	2.50 dB	0.20 dB	
16850.00 MHz	−2.50 dB	0.03 dB	2.50 dB	0.20 dB	
17050.00 MHz	−2.50 dB	−0.23 dB	2.50 dB	0.20 dB	
17250.00 MHz	−3.00 dB	−0.01 dB	3.00 dB	0.20 dB	
17450.00 MHz	−3.00 dB	−0.10 dB	3.00 dB	0.20 dB	
17650.00 MHz	−3.00 dB	0.06 dB	3.00 dB	0.20 dB	
17850.00 MHz	−3.00 dB	−0.23 dB	3.00 dB	0.20 dB	
18050.00 MHz	−3.00 dB	−0.15 dB	3.00 dB	0.20 dB	
18250.00 MHz	−3.00 dB	−0.11 dB	3.00 dB	0.20 dB	
18450.00 MHz	−3.00 dB	−0.06 dB	3.00 dB	0.20 dB	
18650.00 MHz	−3.00 dB	−0.26 dB	3.00 dB	0.20 dB	
18850.00 MHz	−3.00 dB	0.01 dB	3.00 dB	0.20 dB	
19050.00 MHz	−3.00 dB	−0.10 dB	3.00 dB	0.20 dB	
19250.00 MHz	−3.00 dB	−0.22 dB	3.00 dB	0.20 dB	
19450.00 MHz	−3.00 dB	−0.29 dB	3.00 dB	0.20 dB	
19650.00 MHz	−3.00 dB	−0.02 dB	3.00 dB	0.20 dB	
19850.00 MHz	−3.00 dB	−0.06 dB	3.00 dB	0.20 dB	
20050.00 MHz	−3.00 dB	−0.06 dB	3.00 dB	0.20 dB	
20250.00 MHz	−3.00 dB	−0.07 dB	3.00 dB	0.20 dB	
20450.00 MHz	−3.00 dB	−0.12 dB	3.00 dB	0.20 dB	
20650.00 MHz	−3.00 dB	−0.13 dB	3.00 dB	0.20 dB	
20850.00 MHz	−3.00 dB	−0.02 dB	3.00 dB	0.20 dB	
21050.00 MHz	−3.00 dB	−0.45 dB	3.00 dB	0.20 dB	
21250.00 MHz	−3.00 dB	−0.09 dB	3.00 dB	0.20 dB	
21450.00 MHz	−3.00 dB	−0.18 dB	3.00 dB	0.20 dB	
21650.00 MHz	−3.00 dB	−0.04 dB	3.00 dB	0.21 dB	
21850.00 MHz	−3.00 dB	−0.29 dB	3.00 dB	0.21 dB	
22050.00 MHz	−3.50 dB	−0.40 dB	3.50 dB	0.21 dB	
22250.00 MHz	−3.50 dB	−0.24 dB	3.50 dB	0.21 dB	
22450.00 MHz	−3.50 dB	−0.11 dB	3.50 dB	0.21 dB	
22650.00 MHz	−3.50 dB	−0.07 dB	3.50 dB	0.21 dB	
22850.00 MHz	−3.50 dB	−0.17 dB	3.50 dB	0.21 dB	
23050.00 MHz	−3.50 dB	−0.15 dB	3.50 dB	0.21 dB	
23250.00 MHz	−3.50 dB	−0.40 dB	3.50 dB	0.21 dB	
23450.00 MHz	−3.50 dB	0.05 dB	3.50 dB	0.21 dB	
23650.00 MHz	−3.50 dB	0.15 dB	3.50 dB	0.21 dB	
23850.00 MHz	−3.50 dB	0.03 dB	3.50 dB	0.21 dB	
24050.00 MHz	−3.50 dB	−0.61 dB	3.50 dB	0.21 dB	
24250.00 MHz	−3.50 dB	−0.09 dB	3.50 dB	0.21 dB	
24450.00 MHz	−3.50 dB	−0.10 dB	3.50 dB	0.21 dB	
24650.00 MHz	−3.50 dB	−0.09 dB	3.50 dB	0.21 dB	
24850.00 MHz	−3.50 dB	−0.27 dB	3.50 dB	0.21 dB	

Freq Resp Above 3.6 GHz Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
25050.00 MHz	−3.50 dB	−0.28 dB	3.50 dB	0.21 dB	
25250.00 MHz	−3.50 dB	−0.15 dB	3.50 dB	0.21 dB	
25450.00 MHz	−3.50 dB	0.07 dB	3.50 dB	0.21 dB	
25650.00 MHz	−3.50 dB	−0.20 dB	3.50 dB	0.21 dB	
25850.00 MHz	−3.50 dB	−0.12 dB	3.50 dB	0.21 dB	
26050.00 MHz	−3.50 dB	−0.03 dB	3.50 dB	0.21 dB	
26250.00 MHz	−3.50 dB	−0.06 dB	3.50 dB	0.21 dB	
26450.00 MHz	−3.50 dB	−0.69 dB	3.50 dB	0.21 dB	
26650.00 MHz	−3.00 dB	−0.32 dB	3.00 dB	0.35 dB	
26850.00 MHz	−3.00 dB	−0.27 dB	3.00 dB	0.35 dB	
27050.00 MHz	−3.00 dB	−0.32 dB	3.00 dB	0.36 dB	
27250.00 MHz	−3.00 dB	−0.34 dB	3.00 dB	0.36 dB	
27450.00 MHz	−3.00 dB	−0.01 dB	3.00 dB	0.36 dB	
27650.00 MHz	−3.00 dB	−0.16 dB	3.00 dB	0.36 dB	
27850.00 MHz	−3.00 dB	0.36 dB	3.00 dB	0.36 dB	
28050.00 MHz	−3.00 dB	0.20 dB	3.00 dB	0.36 dB	
28250.00 MHz	−3.00 dB	−0.29 dB	3.00 dB	0.36 dB	
28450.00 MHz	−3.00 dB	−0.11 dB	3.00 dB	0.36 dB	
28650.00 MHz	−3.00 dB	0.04 dB	3.00 dB	0.36 dB	
28850.00 MHz	−3.00 dB	−0.18 dB	3.00 dB	0.36 dB	
29050.00 MHz	−3.00 dB	−0.38 dB	3.00 dB	0.36 dB	
29250.00 MHz	−3.00 dB	0.04 dB	3.00 dB	0.36 dB	
29450.00 MHz	−3.00 dB	−0.44 dB	3.00 dB	0.36 dB	
29650.00 MHz	−3.00 dB	−0.21 dB	3.00 dB	0.36 dB	
29850.00 MHz	−3.00 dB	0.18 dB	3.00 dB	0.36 dB	
30050.00 MHz	−3.00 dB	−0.33 dB	3.00 dB	0.36 dB	
30250.00 MHz	−3.00 dB	−0.32 dB	3.00 dB	0.36 dB	
30450.00 MHz	−3.00 dB	−0.05 dB	3.00 dB	0.36 dB	
30650.00 MHz	−3.00 dB	−0.11 dB	3.00 dB	0.36 dB	
30850.00 MHz	−3.00 dB	−0.40 dB	3.00 dB	0.36 dB	
31050.00 MHz	−3.00 dB	−0.12 dB	3.00 dB	0.36 dB	
31250.00 MHz	−3.00 dB	−0.02 dB	3.00 dB	0.37 dB	
31450.00 MHz	−3.00 dB	−0.26 dB	3.00 dB	0.37 dB	
31650.00 MHz	−3.00 dB	0.14 dB	3.00 dB	0.37 dB	
31850.00 MHz	−3.00 dB	−0.20 dB	3.00 dB	0.37 dB	
32050.00 MHz	−3.00 dB	−0.39 dB	3.00 dB	0.37 dB	
32250.00 MHz	−3.00 dB	0.17 dB	3.00 dB	0.37 dB	
32450.00 MHz	−3.00 dB	0.00 dB	3.00 dB	0.37 dB	
32650.00 MHz	−3.00 dB	−0.18 dB	3.00 dB	0.37 dB	
32850.00 MHz	−3.00 dB	−0.53 dB	3.00 dB	0.37 dB	
33050.00 MHz	−3.00 dB	−0.09 dB	3.00 dB	0.37 dB	
33250.00 MHz	−3.00 dB	0.05 dB	3.00 dB	0.37 dB	
33450.00 MHz	−3.00 dB	−0.07 dB	3.00 dB	0.37 dB	
33650.00 MHz	−3.00 dB	−0.30 dB	3.00 dB	0.38 dB	
33850.00 MHz	−3.00 dB	−0.36 dB	3.00 dB	0.38 dB	
34050.00 MHz	−3.00 dB	−0.29 dB	3.00 dB	0.38 dB	
34250.00 MHz	−3.00 dB	0.03 dB	3.00 dB	0.38 dB	
34450.00 MHz	−3.00 dB	−0.10 dB	3.00 dB	0.38 dB	
34650.00 MHz	−4.10 dB	−0.09 dB	4.10 dB	0.38 dB	
34850.00 MHz	−4.10 dB	0.09 dB	4.10 dB	0.38 dB	
35050.00 MHz	−4.10 dB	0.26 dB	4.10 dB	0.39 dB	

Freq Resp Above 3.6 GHz Preamp On (cont.)

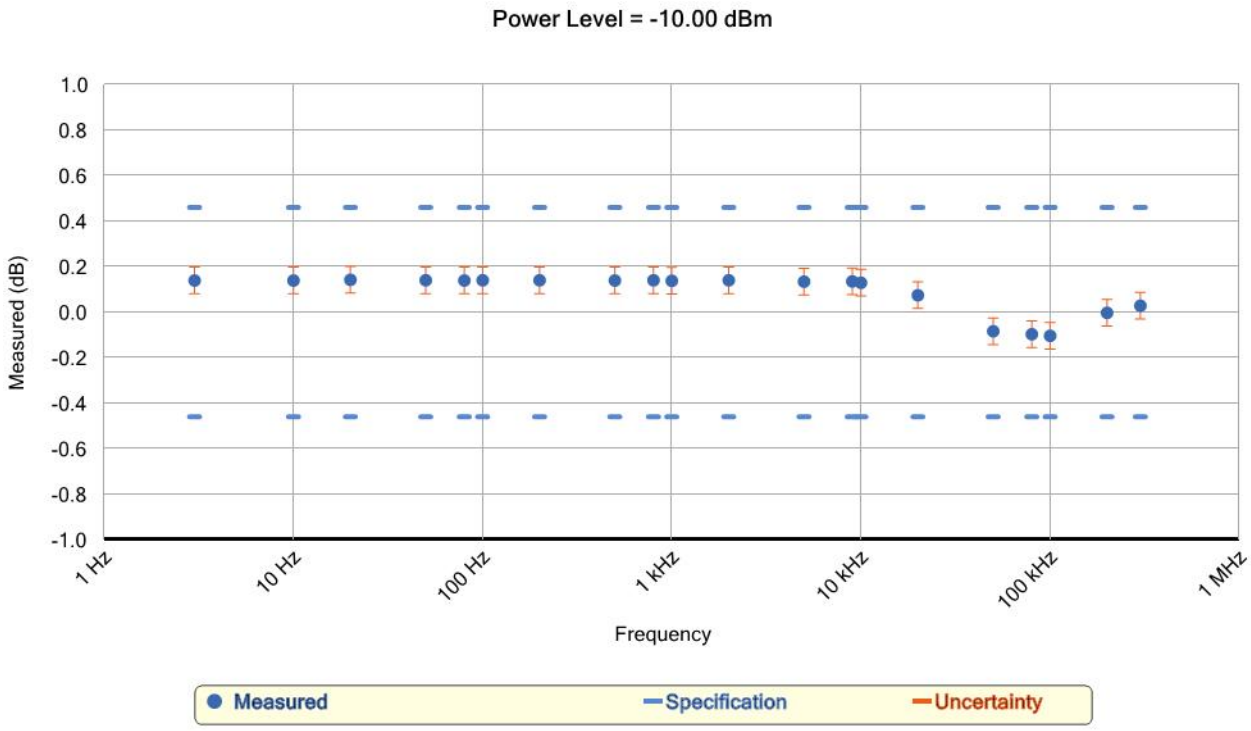
Frequency	Minimum	Measured	Maximum	Uncert.	Status
35250.00 MHz	−4.10 dB	0.13 dB	4.10 dB	0.39 dB	
35450.00 MHz	−4.10 dB	−0.37 dB	4.10 dB	0.39 dB	
35650.00 MHz	−4.10 dB	−0.21 dB	4.10 dB	0.39 dB	
35850.00 MHz	−4.10 dB	0.18 dB	4.10 dB	0.39 dB	
36050.00 MHz	−4.10 dB	0.07 dB	4.10 dB	0.39 dB	
36250.00 MHz	−4.10 dB	0.03 dB	4.10 dB	0.39 dB	
36450.00 MHz	−4.10 dB	−0.17 dB	4.10 dB	0.39 dB	
36650.00 MHz	−4.10 dB	0.34 dB	4.10 dB	0.39 dB	
36850.00 MHz	−4.10 dB	−0.13 dB	4.10 dB	0.39 dB	
37050.00 MHz	−4.10 dB	0.14 dB	4.10 dB	0.40 dB	
37250.00 MHz	−4.10 dB	0.23 dB	4.10 dB	0.40 dB	
37450.00 MHz	−4.10 dB	0.05 dB	4.10 dB	0.39 dB	
37650.00 MHz	−4.10 dB	0.05 dB	4.10 dB	0.39 dB	
37850.00 MHz	−4.10 dB	−0.21 dB	4.10 dB	0.39 dB	
38050.00 MHz	−4.10 dB	0.02 dB	4.10 dB	0.39 dB	
38250.00 MHz	−4.10 dB	−0.03 dB	4.10 dB	0.40 dB	
38450.00 MHz	−4.10 dB	−0.37 dB	4.10 dB	0.40 dB	
38650.00 MHz	−4.10 dB	−0.03 dB	4.10 dB	0.40 dB	
38850.00 MHz	−4.10 dB	0.16 dB	4.10 dB	0.40 dB	
39050.00 MHz	−4.10 dB	−0.11 dB	4.10 dB	0.40 dB	
39250.00 MHz	−4.10 dB	−0.46 dB	4.10 dB	0.40 dB	
39450.00 MHz	−4.10 dB	0.15 dB	4.10 dB	0.40 dB	
39650.00 MHz	−4.10 dB	0.75 dB	4.10 dB	0.40 dB	
39850.00 MHz	−4.10 dB	−0.07 dB	4.10 dB	0.41 dB	
40050.00 MHz	−4.10 dB	0.21 dB	4.10 dB	0.49 dB	
40250.00 MHz	−4.10 dB	−0.23 dB	4.10 dB	0.50 dB	
40450.00 MHz	−4.10 dB	−0.07 dB	4.10 dB	0.51 dB	
40650.00 MHz	−4.10 dB	0.13 dB	4.10 dB	0.51 dB	
40850.00 MHz	−4.10 dB	0.58 dB	4.10 dB	0.51 dB	
41050.00 MHz	−4.10 dB	−0.39 dB	4.10 dB	0.51 dB	
41250.00 MHz	−4.10 dB	−0.09 dB	4.10 dB	0.51 dB	
41450.00 MHz	−4.10 dB	0.28 dB	4.10 dB	0.52 dB	
41650.00 MHz	−4.10 dB	−0.32 dB	4.10 dB	0.52 dB	
41850.00 MHz	−4.10 dB	−0.49 dB	4.10 dB	0.52 dB	
42050.00 MHz	−4.10 dB	−0.09 dB	4.10 dB	0.52 dB	
42250.00 MHz	−4.10 dB	0.39 dB	4.10 dB	0.52 dB	
42450.00 MHz	−4.10 dB	−0.20 dB	4.10 dB	0.53 dB	
42650.00 MHz	−4.10 dB	0.22 dB	4.10 dB	0.53 dB	
42850.00 MHz	−4.10 dB	−0.10 dB	4.10 dB	0.53 dB	
43050.00 MHz	−4.10 dB	0.23 dB	4.10 dB	0.53 dB	
43250.00 MHz	−4.10 dB	0.69 dB	4.10 dB	0.53 dB	
43450.00 MHz	−4.10 dB	−0.12 dB	4.10 dB	0.53 dB	
43650.00 MHz	−4.10 dB	−0.33 dB	4.10 dB	0.53 dB	
43850.00 MHz	−4.10 dB	−0.16 dB	4.10 dB	0.53 dB	
44050.00 MHz	−4.10 dB	−0.41 dB	4.10 dB	0.63 dB	
44250.00 MHz	−4.10 dB	−0.69 dB	4.10 dB	0.63 dB	
44450.00 MHz	−4.10 dB	−0.85 dB	4.10 dB	0.63 dB	
44650.00 MHz	−4.10 dB	0.85 dB	4.10 dB	0.63 dB	
44850.00 MHz	−4.10 dB	−0.06 dB	4.10 dB	0.63 dB	
45050.00 MHz	−4.10 dB	0.30 dB	4.10 dB	0.53 dB	
45250.00 MHz	−4.10 dB	−0.82 dB	4.10 dB	0.52 dB	

Freq Resp Above 3.6 GHz Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
45450.00 MHz	−4.10 dB	0.28 dB	4.10 dB	0.52 dB	
45650.00 MHz	−4.10 dB	−0.17 dB	4.10 dB	0.52 dB	
45850.00 MHz	−4.10 dB	0.20 dB	4.10 dB	0.52 dB	
46050.00 MHz	−4.10 dB	−0.69 dB	4.10 dB	0.52 dB	
46250.00 MHz	−4.10 dB	0.21 dB	4.10 dB	0.52 dB	
46450.00 MHz	−4.10 dB	−0.16 dB	4.10 dB	0.52 dB	
46650.00 MHz	−4.10 dB	0.10 dB	4.10 dB	0.51 dB	
46850.00 MHz	−4.10 dB	−0.49 dB	4.10 dB	0.51 dB	
47050.00 MHz	−4.10 dB	−0.65 dB	4.10 dB	0.51 dB	
47250.00 MHz	−4.10 dB	0.40 dB	4.10 dB	0.51 dB	
47450.00 MHz	−4.10 dB	−0.31 dB	4.10 dB	0.50 dB	
47650.00 MHz	−4.10 dB	−0.06 dB	4.10 dB	0.50 dB	
47850.00 MHz	−4.10 dB	0.15 dB	4.10 dB	0.50 dB	
48050.00 MHz	−4.10 dB	0.05 dB	4.10 dB	0.50 dB	
48250.00 MHz	−4.10 dB	−0.02 dB	4.10 dB	0.49 dB	
48450.00 MHz	−4.10 dB	−0.02 dB	4.10 dB	0.49 dB	
48650.00 MHz	−4.10 dB	−0.16 dB	4.10 dB	0.49 dB	
48850.00 MHz	−4.10 dB	−0.23 dB	4.10 dB	0.48 dB	
49050.00 MHz	−4.10 dB	−0.07 dB	4.10 dB	0.48 dB	
49250.00 MHz	−4.10 dB	−0.11 dB	4.10 dB	0.48 dB	
49450.00 MHz	−4.10 dB	0.08 dB	4.10 dB	0.47 dB	
49650.00 MHz	−4.10 dB	−0.16 dB	4.10 dB	0.47 dB	
49850.00 MHz	−4.10 dB	−0.01 dB	4.10 dB	0.47 dB	

Freq Resp Below 300 kHz

Passed



Power Level = -10.00 dBm

Frequency	Minimum	Measured	Maximum	Uncert.	Status
3.00 Hz	−0.46 dB	0.139 dB	0.46 dB	0.059 dB	
10.00 Hz	−0.46 dB	0.139 dB	0.46 dB	0.059 dB	
20.00 Hz	−0.46 dB	0.142 dB	0.46 dB	0.059 dB	
50.00 Hz	−0.46 dB	0.140 dB	0.46 dB	0.059 dB	
80.00 Hz	−0.46 dB	0.139 dB	0.46 dB	0.059 dB	
100.00 Hz	−0.46 dB	0.140 dB	0.46 dB	0.059 dB	
200.00 Hz	−0.46 dB	0.140 dB	0.46 dB	0.059 dB	
500.00 Hz	−0.46 dB	0.139 dB	0.46 dB	0.059 dB	
800.00 Hz	−0.46 dB	0.140 dB	0.46 dB	0.059 dB	
1000.00 Hz	−0.46 dB	0.138 dB	0.46 dB	0.059 dB	
2000.00 Hz	−0.46 dB	0.140 dB	0.46 dB	0.059 dB	
5000.00 Hz	−0.46 dB	0.134 dB	0.46 dB	0.059 dB	
9000.00 Hz	−0.46 dB	0.135 dB	0.46 dB	0.059 dB	
10000.00 Hz	−0.46 dB	0.129 dB	0.46 dB	0.059 dB	
20000.00 Hz	−0.46 dB	0.074 dB	0.46 dB	0.059 dB	
50000.00 Hz	−0.46 dB	−0.084 dB	0.46 dB	0.059 dB	
80000.00 Hz	−0.46 dB	−0.097 dB	0.46 dB	0.059 dB	
100000.00 Hz	−0.46 dB	−0.104 dB	0.46 dB	0.059 dB	

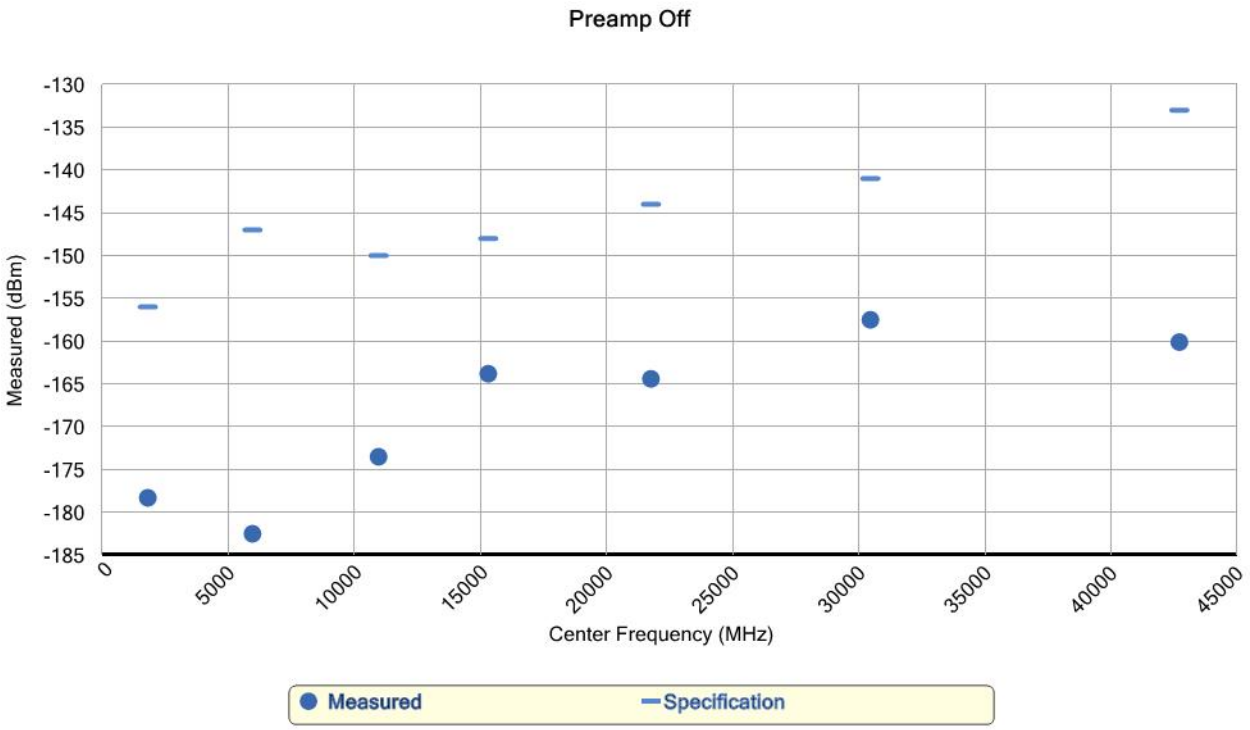
Freq Resp Below 300 kHz (cont.)

Frequency	Minimum	Measured	Maximum	Uncert.	Status
200000.00 Hz	−0.46 dB	−0.003 dB	0.46 dB	0.059 dB	
300000.00 Hz	−0.46 dB	0.028 dB	0.46 dB	0.059 dB	

Internal Alignment — As Expected

Test Condition	Result
Functional Check	DONE

Effective DANL Option NFE — As Expected

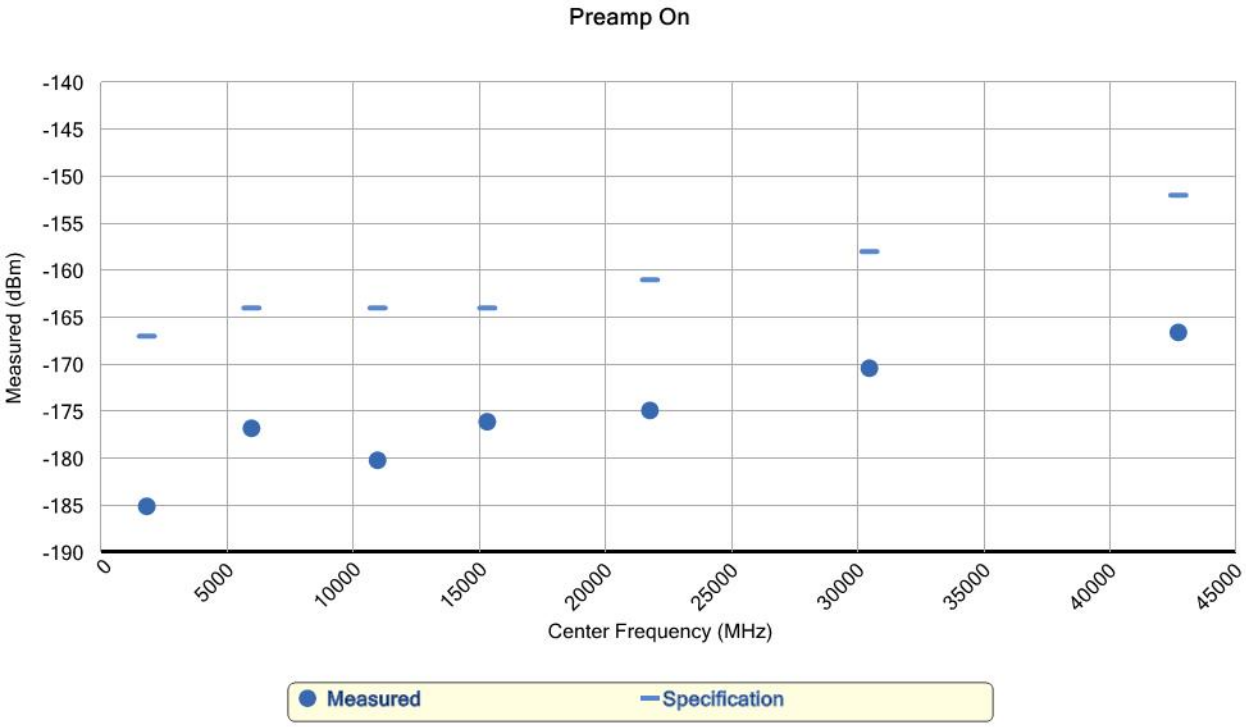


Preamp Off

Center Frequency	Noise Improvement	Measured	Maximum	Status
1803.14 MHz	−22.11 dB	−178.3 dBm	−156 dBm	
5953.14 MHz	−31.33 dB	−182.5 dBm	−147 dBm	
10953.14 MHz	−23.61 dB	−173.5 dBm	−150 dBm	
15303.14 MHz	−15.49 dB	−163.8 dBm	−148 dBm	
21753.14 MHz	−18.86 dB	−164.4 dBm	−144 dBm	
30453.14 MHz	−14.85 dB	−157.5 dBm	−141 dBm	
42703.14 MHz	−22.40 dB	−160.1 dBm	−133 dBm	

Effective DANL Option NFE (cont.)

Note: This is not a published warranted specification. The test limits have been set to ensure that the hardware is functional.

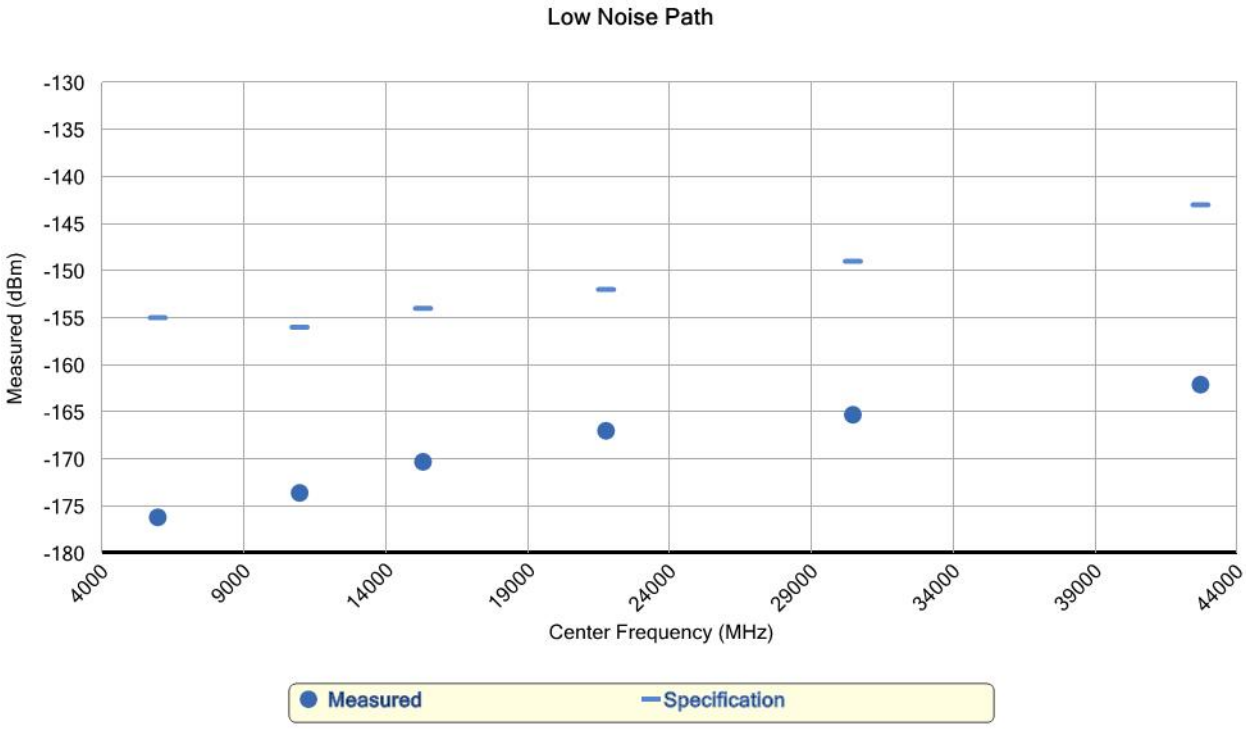


Preamp On

Center Frequency	Noise Improvement	Measured	Maximum	Status
1803.14 MHz	−19.06 dB	−185.1 dBm	−167 dBm	
5953.14 MHz	−12.33 dB	−176.8 dBm	−164 dBm	
10953.14 MHz	−16.36 dB	−180.2 dBm	−164 dBm	
15303.14 MHz	−11.61 dB	−176.1 dBm	−164 dBm	
21753.14 MHz	−11.74 dB	−174.9 dBm	−161 dBm	
30453.14 MHz	−9.62 dB	−170.4 dBm	−158 dBm	
42703.14 MHz	−9.97 dB	−166.6 dBm	−152 dBm	

Note: This is not a published warranted specification. The test limits have been set to ensure that the hardware is functional.

Effective DANL Option NFE (cont.)

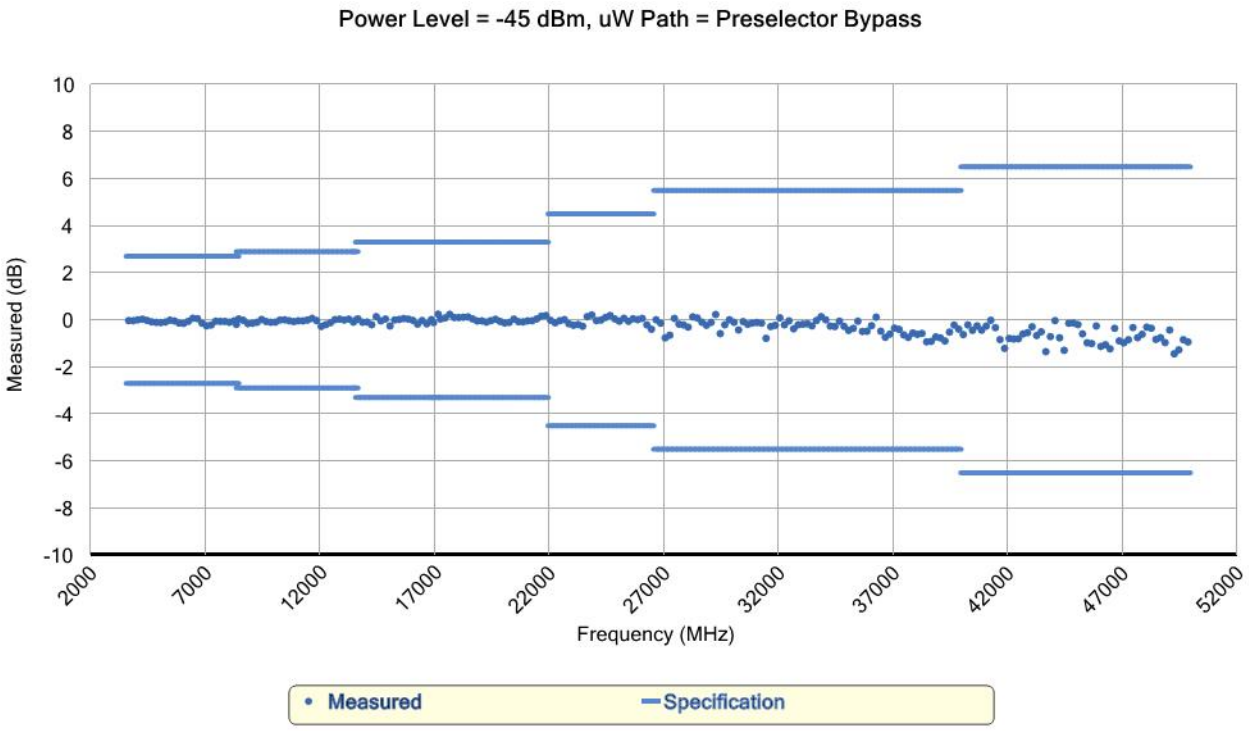


Low Noise Path

Center Frequency	Noise Improvement	Measured	Maximum	Status
5953.14 MHz	−19.60 dB	−176.2 dBm	−155 dBm	
10953.14 MHz	−17.98 dB	−173.6 dBm	−156 dBm	
15303.14 MHz	−16.64 dB	−170.3 dBm	−154 dBm	
21753.14 MHz	−15.41 dB	−167.0 dBm	−152 dBm	
30453.14 MHz	−16.63 dB	−165.3 dBm	−149 dBm	
42703.14 MHz	−17.14 dB	−162.1 dBm	−143 dBm	

Note: This is not a published warranted specification. The test limits have been set to ensure that the hardware is functional.

Freq Resp Unpreselected Preamp On — As Expected



Power Level = -45 dBm, uW Path = Preselector Bypass

Frequency	Minimum	Measured	Maximum	Status
3650.00 MHz	−2.70 dB	−0.030 dB	2.70 dB	
3850.00 MHz	−2.70 dB	−0.035 dB	2.70 dB	
4050.00 MHz	−2.70 dB	0.000 dB	2.70 dB	
4250.00 MHz	−2.70 dB	0.030 dB	2.70 dB	
4450.00 MHz	−2.70 dB	−0.023 dB	2.70 dB	
4650.00 MHz	−2.70 dB	−0.083 dB	2.70 dB	
4850.00 MHz	−2.70 dB	−0.109 dB	2.70 dB	
5050.00 MHz	−2.70 dB	−0.116 dB	2.70 dB	
5250.00 MHz	−2.70 dB	−0.093 dB	2.70 dB	
5450.00 MHz	−2.70 dB	−0.013 dB	2.70 dB	
5650.00 MHz	−2.70 dB	−0.045 dB	2.70 dB	
5850.00 MHz	−2.70 dB	−0.135 dB	2.70 dB	
6050.00 MHz	−2.70 dB	−0.148 dB	2.70 dB	
6250.00 MHz	−2.70 dB	−0.064 dB	2.70 dB	
6450.00 MHz	−2.70 dB	0.069 dB	2.70 dB	
6650.00 MHz	−2.70 dB	0.051 dB	2.70 dB	
6850.00 MHz	−2.70 dB	−0.141 dB	2.70 dB	
7050.00 MHz	−2.70 dB	−0.251 dB	2.70 dB	

Freq Resp Unpreselected Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Status
7250.00 MHz	−2.70 dB	−0.219 dB	2.70 dB	
7450.00 MHz	−2.70 dB	−0.055 dB	2.70 dB	
7650.00 MHz	−2.70 dB	−0.068 dB	2.70 dB	
7850.00 MHz	−2.70 dB	−0.066 dB	2.70 dB	
8050.00 MHz	−2.70 dB	−0.101 dB	2.70 dB	
8250.00 MHz	−2.70 dB	−0.042 dB	2.70 dB	
8350.00 MHz	−2.70 dB	−0.194 dB	2.70 dB	
8450.00 MHz	−2.90 dB	0.039 dB	2.90 dB	
8650.00 MHz	−2.90 dB	−0.019 dB	2.90 dB	
8850.00 MHz	−2.90 dB	−0.161 dB	2.90 dB	
9050.00 MHz	−2.90 dB	−0.145 dB	2.90 dB	
9250.00 MHz	−2.90 dB	−0.103 dB	2.90 dB	
9450.00 MHz	−2.90 dB	0.016 dB	2.90 dB	
9650.00 MHz	−2.90 dB	−0.071 dB	2.90 dB	
9850.00 MHz	−2.90 dB	−0.103 dB	2.90 dB	
10050.00 MHz	−2.90 dB	−0.097 dB	2.90 dB	
10250.00 MHz	−2.90 dB	−0.007 dB	2.90 dB	
10450.00 MHz	−2.90 dB	0.001 dB	2.90 dB	
10650.00 MHz	−2.90 dB	−0.035 dB	2.90 dB	
10850.00 MHz	−2.90 dB	−0.075 dB	2.90 dB	
11050.00 MHz	−2.90 dB	−0.040 dB	2.90 dB	
11250.00 MHz	−2.90 dB	−0.041 dB	2.90 dB	
11450.00 MHz	−2.90 dB	−0.009 dB	2.90 dB	
11650.00 MHz	−2.90 dB	0.065 dB	2.90 dB	
11850.00 MHz	−2.90 dB	−0.033 dB	2.90 dB	
12050.00 MHz	−2.90 dB	−0.280 dB	2.90 dB	
12250.00 MHz	−2.90 dB	−0.203 dB	2.90 dB	
12450.00 MHz	−2.90 dB	−0.122 dB	2.90 dB	
12650.00 MHz	−2.90 dB	0.008 dB	2.90 dB	
12850.00 MHz	−2.90 dB	0.029 dB	2.90 dB	
13050.00 MHz	−2.90 dB	−0.007 dB	2.90 dB	
13250.00 MHz	−2.90 dB	0.031 dB	2.90 dB	
13450.00 MHz	−2.90 dB	−0.096 dB	2.90 dB	
13550.00 MHz	−2.90 dB	−0.010 dB	2.90 dB	
13650.00 MHz	−3.30 dB	0.043 dB	3.30 dB	
13850.00 MHz	−3.30 dB	−0.100 dB	3.30 dB	
14050.00 MHz	−3.30 dB	−0.093 dB	3.30 dB	
14250.00 MHz	−3.30 dB	−0.204 dB	3.30 dB	
14450.00 MHz	−3.30 dB	0.136 dB	3.30 dB	
14650.00 MHz	−3.30 dB	−0.041 dB	3.30 dB	
14850.00 MHz	−3.30 dB	0.036 dB	3.30 dB	
15050.00 MHz	−3.30 dB	−0.259 dB	3.30 dB	
15250.00 MHz	−3.30 dB	−0.005 dB	3.30 dB	
15450.00 MHz	−3.30 dB	0.016 dB	3.30 dB	
15650.00 MHz	−3.30 dB	0.057 dB	3.30 dB	
15850.00 MHz	−3.30 dB	0.031 dB	3.30 dB	
16050.00 MHz	−3.30 dB	−0.023 dB	3.30 dB	
16250.00 MHz	−3.30 dB	−0.184 dB	3.30 dB	
16450.00 MHz	−3.30 dB	−0.028 dB	3.30 dB	
16650.00 MHz	−3.30 dB	−0.169 dB	3.30 dB	
16850.00 MHz	−3.30 dB	0.012 dB	3.30 dB	

Freq Resp Unpreselected Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Status
16950.00 MHz	−3.30 dB	−0.113 dB	3.30 dB	
17150.00 MHz	−3.30 dB	0.242 dB	3.30 dB	
17250.00 MHz	−3.30 dB	0.033 dB	3.30 dB	
17450.00 MHz	−3.30 dB	0.081 dB	3.30 dB	
17650.00 MHz	−3.30 dB	0.236 dB	3.30 dB	
17850.00 MHz	−3.30 dB	0.099 dB	3.30 dB	
18050.00 MHz	−3.30 dB	0.098 dB	3.30 dB	
18250.00 MHz	−3.30 dB	0.112 dB	3.30 dB	
18450.00 MHz	−3.30 dB	0.124 dB	3.30 dB	
18650.00 MHz	−3.30 dB	0.041 dB	3.30 dB	
18850.00 MHz	−3.30 dB	−0.046 dB	3.30 dB	
19050.00 MHz	−3.30 dB	−0.041 dB	3.30 dB	
19250.00 MHz	−3.30 dB	−0.095 dB	3.30 dB	
19450.00 MHz	−3.30 dB	−0.033 dB	3.30 dB	
19650.00 MHz	−3.30 dB	0.027 dB	3.30 dB	
19850.00 MHz	−3.30 dB	−0.065 dB	3.30 dB	
20050.00 MHz	−3.30 dB	−0.132 dB	3.30 dB	
20250.00 MHz	−3.30 dB	−0.110 dB	3.30 dB	
20450.00 MHz	−3.30 dB	0.032 dB	3.30 dB	
20650.00 MHz	−3.30 dB	−0.077 dB	3.30 dB	
20850.00 MHz	−3.30 dB	−0.088 dB	3.30 dB	
21050.00 MHz	−3.30 dB	−0.042 dB	3.30 dB	
21250.00 MHz	−3.30 dB	−0.037 dB	3.30 dB	
21450.00 MHz	−3.30 dB	0.040 dB	3.30 dB	
21650.00 MHz	−3.30 dB	0.159 dB	3.30 dB	
21850.00 MHz	−3.30 dB	0.185 dB	3.30 dB	
22050.00 MHz	−4.50 dB	−0.019 dB	4.50 dB	
22250.00 MHz	−4.50 dB	−0.126 dB	4.50 dB	
22450.00 MHz	−4.50 dB	−0.037 dB	4.50 dB	
22650.00 MHz	−4.50 dB	0.012 dB	4.50 dB	
22850.00 MHz	−4.50 dB	−0.166 dB	4.50 dB	
23050.00 MHz	−4.50 dB	−0.230 dB	4.50 dB	
23250.00 MHz	−4.50 dB	−0.197 dB	4.50 dB	
23450.00 MHz	−4.50 dB	−0.271 dB	4.50 dB	
23650.00 MHz	−4.50 dB	0.138 dB	4.50 dB	
23850.00 MHz	−4.50 dB	0.209 dB	4.50 dB	
24050.00 MHz	−4.50 dB	−0.032 dB	4.50 dB	
24250.00 MHz	−4.50 dB	−0.007 dB	4.50 dB	
24450.00 MHz	−4.50 dB	0.104 dB	4.50 dB	
24650.00 MHz	−4.50 dB	0.187 dB	4.50 dB	
24850.00 MHz	−4.50 dB	0.040 dB	4.50 dB	
25050.00 MHz	−4.50 dB	−0.056 dB	4.50 dB	
25250.00 MHz	−4.50 dB	0.069 dB	4.50 dB	
25450.00 MHz	−4.50 dB	−0.062 dB	4.50 dB	
25650.00 MHz	−4.50 dB	0.048 dB	4.50 dB	
25850.00 MHz	−4.50 dB	0.007 dB	4.50 dB	
26050.00 MHz	−4.50 dB	0.064 dB	4.50 dB	
26250.00 MHz	−4.50 dB	−0.212 dB	4.50 dB	
26450.00 MHz	−4.50 dB	−0.401 dB	4.50 dB	
26650.00 MHz	−5.50 dB	0.004 dB	5.50 dB	
26850.00 MHz	−5.50 dB	−0.142 dB	5.50 dB	

Freq Resp Unpreselected Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Status
27050.00 MHz	−5.50 dB	−0.766 dB	5.50 dB	
27250.00 MHz	−5.50 dB	−0.654 dB	5.50 dB	
27450.00 MHz	−5.50 dB	0.062 dB	5.50 dB	
27650.00 MHz	−5.50 dB	−0.182 dB	5.50 dB	
27850.00 MHz	−5.50 dB	−0.214 dB	5.50 dB	
28050.00 MHz	−5.50 dB	−0.310 dB	5.50 dB	
28250.00 MHz	−5.50 dB	0.127 dB	5.50 dB	
28450.00 MHz	−5.50 dB	0.081 dB	5.50 dB	
28650.00 MHz	−5.50 dB	−0.097 dB	5.50 dB	
28850.00 MHz	−5.50 dB	−0.231 dB	5.50 dB	
29050.00 MHz	−5.50 dB	−0.108 dB	5.50 dB	
29250.00 MHz	−5.50 dB	0.229 dB	5.50 dB	
29450.00 MHz	−5.50 dB	−0.585 dB	5.50 dB	
29650.00 MHz	−5.50 dB	−0.210 dB	5.50 dB	
29850.00 MHz	−5.50 dB	0.005 dB	5.50 dB	
30050.00 MHz	−5.50 dB	−0.101 dB	5.50 dB	
30250.00 MHz	−5.50 dB	−0.429 dB	5.50 dB	
30450.00 MHz	−5.50 dB	−0.075 dB	5.50 dB	
30650.00 MHz	−5.50 dB	−0.189 dB	5.50 dB	
30850.00 MHz	−5.50 dB	−0.134 dB	5.50 dB	
31050.00 MHz	−5.50 dB	−0.111 dB	5.50 dB	
31250.00 MHz	−5.50 dB	−0.138 dB	5.50 dB	
31450.00 MHz	−5.50 dB	−0.785 dB	5.50 dB	
31650.00 MHz	−5.50 dB	−0.284 dB	5.50 dB	
31850.00 MHz	−5.50 dB	−0.230 dB	5.50 dB	
32050.00 MHz	−5.50 dB	0.087 dB	5.50 dB	
32250.00 MHz	−5.50 dB	−0.211 dB	5.50 dB	
32450.00 MHz	−5.50 dB	−0.042 dB	5.50 dB	
32650.00 MHz	−5.50 dB	−0.381 dB	5.50 dB	
32850.00 MHz	−5.50 dB	−0.211 dB	5.50 dB	
33050.00 MHz	−5.50 dB	−0.187 dB	5.50 dB	
33250.00 MHz	−5.50 dB	−0.165 dB	5.50 dB	
33450.00 MHz	−5.50 dB	−0.254 dB	5.50 dB	
33650.00 MHz	−5.50 dB	−0.025 dB	5.50 dB	
33850.00 MHz	−5.50 dB	0.137 dB	5.50 dB	
34050.00 MHz	−5.50 dB	0.002 dB	5.50 dB	
34250.00 MHz	−5.50 dB	−0.265 dB	5.50 dB	
34450.00 MHz	−5.50 dB	−0.283 dB	5.50 dB	
34650.00 MHz	−5.50 dB	−0.056 dB	5.50 dB	
34850.00 MHz	−5.50 dB	−0.275 dB	5.50 dB	
35050.00 MHz	−5.50 dB	−0.448 dB	5.50 dB	
35250.00 MHz	−5.50 dB	−0.363 dB	5.50 dB	
35450.00 MHz	−5.50 dB	−0.056 dB	5.50 dB	
35650.00 MHz	−5.50 dB	−0.493 dB	5.50 dB	
35850.00 MHz	−5.50 dB	−0.484 dB	5.50 dB	
36050.00 MHz	−5.50 dB	−0.247 dB	5.50 dB	
36250.00 MHz	−5.50 dB	0.115 dB	5.50 dB	
36450.00 MHz	−5.50 dB	−0.483 dB	5.50 dB	
36650.00 MHz	−5.50 dB	−0.741 dB	5.50 dB	
36850.00 MHz	−5.50 dB	−0.601 dB	5.50 dB	
37050.00 MHz	−5.50 dB	−0.350 dB	5.50 dB	

Freq Resp Unpreselected Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Status
37250.00 MHz	−5.50 dB	−0.405 dB	5.50 dB	
37450.00 MHz	−5.50 dB	−0.639 dB	5.50 dB	
37650.00 MHz	−5.50 dB	−0.744 dB	5.50 dB	
37850.00 MHz	−5.50 dB	−0.557 dB	5.50 dB	
38050.00 MHz	−5.50 dB	−0.617 dB	5.50 dB	
38250.00 MHz	−5.50 dB	−0.578 dB	5.50 dB	
38450.00 MHz	−5.50 dB	−0.934 dB	5.50 dB	
38650.00 MHz	−5.50 dB	−0.913 dB	5.50 dB	
38850.00 MHz	−5.50 dB	−0.722 dB	5.50 dB	
39050.00 MHz	−5.50 dB	−0.766 dB	5.50 dB	
39250.00 MHz	−5.50 dB	−0.897 dB	5.50 dB	
39450.00 MHz	−5.50 dB	−0.519 dB	5.50 dB	
39650.00 MHz	−5.50 dB	−0.219 dB	5.50 dB	
39850.00 MHz	−5.50 dB	−0.393 dB	5.50 dB	
40050.00 MHz	−6.50 dB	−0.624 dB	6.50 dB	
40250.00 MHz	−6.50 dB	−0.215 dB	6.50 dB	
40450.00 MHz	−6.50 dB	−0.446 dB	6.50 dB	
40650.00 MHz	−6.50 dB	−0.257 dB	6.50 dB	
40850.00 MHz	−6.50 dB	−0.438 dB	6.50 dB	
41050.00 MHz	−6.50 dB	−0.264 dB	6.50 dB	
41250.00 MHz	−6.50 dB	−0.018 dB	6.50 dB	
41450.00 MHz	−6.50 dB	−0.331 dB	6.50 dB	
41650.00 MHz	−6.50 dB	−0.838 dB	6.50 dB	
41850.00 MHz	−6.50 dB	−1.212 dB	6.50 dB	
42050.00 MHz	−6.50 dB	−0.789 dB	6.50 dB	
42250.00 MHz	−6.50 dB	−0.814 dB	6.50 dB	
42450.00 MHz	−6.50 dB	−0.804 dB	6.50 dB	
42650.00 MHz	−6.50 dB	−0.599 dB	6.50 dB	
42850.00 MHz	−6.50 dB	−0.546 dB	6.50 dB	
43050.00 MHz	−6.50 dB	−0.294 dB	6.50 dB	
43250.00 MHz	−6.50 dB	−0.665 dB	6.50 dB	
43450.00 MHz	−6.50 dB	−0.507 dB	6.50 dB	
43650.00 MHz	−6.50 dB	−1.352 dB	6.50 dB	
43850.00 MHz	−6.50 dB	−0.711 dB	6.50 dB	
44050.00 MHz	−6.50 dB	−0.032 dB	6.50 dB	
44250.00 MHz	−6.50 dB	−0.761 dB	6.50 dB	
44450.00 MHz	−6.50 dB	−1.296 dB	6.50 dB	
44650.00 MHz	−6.50 dB	−0.144 dB	6.50 dB	
44850.00 MHz	−6.50 dB	−0.133 dB	6.50 dB	
45050.00 MHz	−6.50 dB	−0.200 dB	6.50 dB	
45250.00 MHz	−6.50 dB	−0.596 dB	6.50 dB	
45450.00 MHz	−6.50 dB	−0.976 dB	6.50 dB	
45650.00 MHz	−6.50 dB	−1.008 dB	6.50 dB	
45850.00 MHz	−6.50 dB	−0.259 dB	6.50 dB	
46050.00 MHz	−6.50 dB	−1.130 dB	6.50 dB	
46250.00 MHz	−6.50 dB	−1.056 dB	6.50 dB	
46450.00 MHz	−6.50 dB	−1.232 dB	6.50 dB	
46650.00 MHz	−6.50 dB	−0.360 dB	6.50 dB	
46850.00 MHz	−6.50 dB	−0.894 dB	6.50 dB	
47050.00 MHz	−6.50 dB	−0.976 dB	6.50 dB	
47250.00 MHz	−6.50 dB	−0.846 dB	6.50 dB	

Freq Resp Unpreselected Preamp On (cont.)

Frequency	Minimum	Measured	Maximum	Status
47450.00 MHz	−6.50 dB	−0.327 dB	6.50 dB	
47650.00 MHz	−6.50 dB	−0.757 dB	6.50 dB	
47850.00 MHz	−6.50 dB	−0.613 dB	6.50 dB	
48050.00 MHz	−6.50 dB	−0.310 dB	6.50 dB	
48250.00 MHz	−6.50 dB	−0.356 dB	6.50 dB	
48450.00 MHz	−6.50 dB	−0.830 dB	6.50 dB	
48650.00 MHz	−6.50 dB	−0.758 dB	6.50 dB	
48850.00 MHz	−6.50 dB	−0.965 dB	6.50 dB	
49050.00 MHz	−6.50 dB	−0.432 dB	6.50 dB	
49250.00 MHz	−6.50 dB	−1.443 dB	6.50 dB	
49450.00 MHz	−6.50 dB	−1.274 dB	6.50 dB	
49650.00 MHz	−6.50 dB	−0.843 dB	6.50 dB	
49850.00 MHz	−6.50 dB	−0.938 dB	6.50 dB	

Note: A “Functional test” is designed to verify an overall “function” rather than a warranted level of performance. The test limits are wide enough that Measurement Uncertainties are not relevant to the test result, therefore MUs are not reported. These measurements do not depend on the scope-of-accreditation.