HEADQUARTERS: 914 WEST PATAPSCO AVENUE • BALTIMORE, MARYLAND 21230 • PHONE (410) 354-3300 • FAX (410) 354-3313

3/6/2023
HP, Inc.
1501 Paige Mill Road
Palo, Alto, CA 94304
USA

Dear Tony Griffiths,

Enclosed is the EMC Wireless test report for compliance testing of the HP, Inc. P033 as tested to the requirements of 5.2GHz, 5.3GHz &5.6GHz Band Low-Power Data Communication System for Intentional Radiators.

Thank you for using the services of Eurofins MET Labs. If you have any questions regarding these results or if MET can be of further service to you, please feel free to contact me.

Sincerely yours,
EUROFINS MET LABS



Nancy LaBrecque
Documentation Department

Reference: WIR118717-Japan_ 5.2, 5.3, 5.6 802.11_R4

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5.2GHz, 5.3GHz, 5.6GHz WiFi
Test Report

for the

HP, Inc.
P033

Tested under
Rules for
2.4 GHz Wide-Band Low-Power
Communication System in
5.2GHz, 5.3GHz &5.6GHz Band Low-Power Data Communication System
For Intentional Radiators

Bryan Taylor, Wireless Team Lead
Electromagnetic Compatibility Lab

Nancy LaBrecque
Documentation Department

Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules Part 15.247 under normal use and maintenance.

Matthew Hinojosa
EMC Manager, Austin Electromagnetic Compatibility Lab

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Report Status Sheet

Revision	Report Date	Reason for Revision
∅	9/29/2022	Initial Issue.
1	2/8/2023	Implemented technical revisions based on reviewer comments
2	2/15/2022	Implemented technical revisions based on reviewer comments
3	2/22/2022	Implemented technical revisions based on reviewer comments
4	3/6/2023	Implemented technical revisions based on reviewer comments

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List of Terms and Abbreviations

AC	**A**lternating **C**urrent
ACF	**A**ntenna **C**orrection **F**actor
Cal	**Cal**ibration
d	**M**easurement **D**istance
dB	**D**eci**b**els
dBµA	**D**eci**b**els above one **micro**amp
dBµV	**D**eci**b**els above one **micro**volt
dBµA/m	**D**eci**b**els above one **micro**amp **per m**eter
dBµV/m	**D**eci**b**els above one **micro**volt **per m**eter
DC	**D**irect **C**urrent
E	**E**lectric Field
DSL	**D**igital **S**ubscriber **L**ine
ESD	**E**lectro**s**tatic **D**ischarge
EUT	**E**quipment **U**nder **T**est
f	**F**requency
FCC	**F**ederal **C**ommunications **C**ommission
GRP	**G**round **R**eference **P**lane
H	Magnetic Field
HCP	**H**orizontal **C**oupling **P**lane
Hz	**H**ert**z**
IEC	**I**nternational **E**lectrotechnical **C**ommission
kHz	**k**ilo**h**ert**z**
kPa	**k**ilo**pa**scal
kV	**k**ilo**v**olt
LISN	**L**ine **I**mpedance **S**tabilization **N**etwork
MHz	**M**ega**h**ertz
µH	**microh**enry
µ	**microf**arad
µs	**micros**econds
NEBS	**N**etwork **E**quipment-**B**uilding **S**ystem
PRF	**P**ulse **R**epetition **F**requency
RF	**R**adio **F**requency
RMS	**R**oot-**M**ean-**S**quare
TWT	**T**raveling **W**ave **T**ube
V/m	**V**olts **per m**eter
VCP	**V**ertical **C**oupling **P**lane

I. Executive Summary

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A. Purpose of Test

An EMC evaluation was performed to determine compliance of the HP, Inc. P033, with the requirements of a 2.4 GHz Wide-Band Low-Power Data Communication System in 5.2GHz, 5.3GHz &5.6GHz Band Low-Power Data Communication System. HP, Inc. should retain a copy of this document which should be kept on file for at least two years after the manufacturing of the P033, has been **permanently** discontinued.

B. Executive Summary

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with 5.2GHz, 5.3GHz &5.6GHz Band Low-Power Data Communication System, in accordance with HP, Inc.purchase order number 10000013761.

Description	Compliance
Frequency Error	Compliant
Occupied Bandwidth and Spread Spectrum Bandwidth	Compliant
Spurious Emissions	Compliant
Adjacent Channel Power	Compliant
Error of Antenna Power	Compliant
Secondary Radiated Emissions (Spurious Emission of Receiver)	Compliant
Transmission Burst Length	Compliant
Function of Collision Avoidance	Compliant
Transmit Power Control	Compliant
Dynamic Frequency Selection	Compliant

Table 1. Executive Summary

II. Equipment Configuration

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A. Overview

Eurofins MET Labs was contracted by HP, Inc. to perform testing on the P033, under HP, Inc.'s purchase order number 10000013761.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of the HP, Inc. P033.

The results obtained relate only to the item(s) tested.

<table>
<tr><td>Model(s) Tested:</td><td colspan="2">P033</td></tr>
<tr><td>Model(s) Covered:</td><td colspan="2">P033</td></tr>
<tr><td rowspan="5">EUT Specifications:</td><td colspan="2">Primary Power: 100 – 240 VAC, 50/60 Hz</td></tr>
<tr><td>Type of Modulations:</td><td>OFDM</td></tr>
<tr><td>Rated Power Density</td><td>
<table>
<tr><th></th><th colspan="3">Power Density (mW/Mhz)</th></tr>
<tr><th></th><th>W52</th><th>W53</th><th>W56</th></tr>
<tr><td>802.11a</td><td>1.472</td><td>1.496</td><td>1</td></tr>
<tr><td>802.11n (20MHz)</td><td>1.472</td><td>1.496</td><td>1</td></tr>
<tr><td>802.11n (40MHz)</td><td>1.472</td><td>1.496</td><td>0.5</td></tr>
<tr><td>802.11ac</td><td>0.3</td><td>0.35</td><td>0.25</td></tr>
<tr><td>802.11ax</td><td>0.3</td><td>0.35</td><td>0.25</td></tr>
</table>
</td></tr>
<tr><td>EUT Frequency Ranges:</td><td>[W52] 5.2 GHz: 5150-5250 MHz
[W53] 5.3 GHz: 5250-5350 MHz
[W56] 5.6 GHz: 5470-5725 MHz</td></tr>
<tr><td>Antenna Gain (declared by HP, Inc.)</td><td>3.5dBi</td></tr>
<tr><td>Number of Transmit Chains</td><td colspan="2">There are 2 transmit chains each which may transmit simultaneously (MIMO)</td></tr>
<tr><td>Radar Detection</td><td colspan="2">DFS Slave Operation Only</td></tr>
<tr><td>Analysis:</td><td colspan="2">The results obtained relate only to the item(s) tested.</td></tr>
<tr><td rowspan="3">Environmental Test Conditions:</td><td colspan="2">Temperature: 15-35º C</td></tr>
<tr><td colspan="2">Relative Humidity: 30-60%</td></tr>
<tr><td colspan="2">Barometric Pressure: 860-1060 mbar</td></tr>
<tr><td>Evaluated by:</td><td colspan="2">Bryan Taylor</td></tr>
<tr><td>Report Date(s):</td><td colspan="2">4/20/2022 through 9/1/2022</td></tr>
</table>

Table 2. EUT Summary Table

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B. References

5.2 GHz, 5.3 GHz & 5.6 GHz band low-power data communication system (1)(5.2 GHz & 5.3GHz band) (Item 19-3 of Article 2 Paragraph 1)	Radio equipment for low-power data communications system radio station using a radio wave of 5.2 GHz, 5.3 GHz & 5.6 GHz Band.
ANSI C63.10:2013	Procedures for Compliance Testing of Unlicensed Wireless Devices
ANSI/ISO/IEC 17025:2000	General Requirements for the Competence of Testing and Calibration Laboratories

Table 3. References

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C. Test Site

All testing was performed at Eurofins MET Labs, Inc., 13501 McCallen Pass, Austin, TX 78753. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology.

Radiated Emissions measurements were performed in a 10 meter semi-anechoic chamber (equivalent to an Open Area Test Site).

D. Measurement Uncertainty

Test Method	Typical Expanded Uncertainty	K	Confidence Level
RF Frequencies	±4.52 Hz	2	95%
RF Power Conducted Emissions	±2.97 dB	2	95%
RF Power Radiated Emissions	±2.95 dB	2	95%

Table 4. Uncertainty Calculations Summary

E. Description of Test Sample

The HP, Inc. P033 (marketed as Studio X52), is a video conferencing video bar designed to act as an audio / video endpoint codec over LAN networks. The device is powered by a AC/DC mains adapter and contains 2.4GHz / 5Ghz Wifi and Bluetooth radio interfaces.

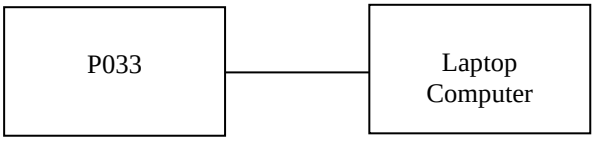


Figure 1. Block Diagram of Test Configuration

F. Equipment Configuration

The EUT was set up as outlined in Figure 1, Block Diagram of Test Setup. The laptop computer was used to send test commands to force the transmitters to operate in the appropriate test mode.

Ref. ID	Name / Description	Model Number	Part Number	Serial Number	Revision
1	P033	P033	N/A	Test Sample 1	N/A

Table 5. Equipment Configuration

G. Support Equipment

Support equipment necessary for the operation and testing of the EUT is included in the following list.

Ref. ID	Name / Description	Manufacturer	Model Number	Customer Supplied Calibration Data
1	Laptop Computer	Dell	HW_Lab	--

Table 6. Support Equipment

H. Ports and Cabling Information

Ref. Id	Port Name on EUT	Qty	Length as tested (m)	Shielded? (Y/N)	Termination Box ID & Port Name
5	DC Power	1	2m	No	AC/DC adaptor
9	USB C	1	10m	No	Laptop Computer

Table 7. Ports and Cabling Information

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I. Mode of Operation

The support laptop provided a direct means of controlling transmitter parameters.

J. Method of Monitoring EUT Operation

A spectrum analyzer was used to confirm proper transmitter operation.

K. Modifications

a) Modifications to EUT

No modifications were made to the EUT.

b) Modifications to Test Standard

No modifications were made to the test standard.

L. Disposition of EUT

The test sample including all support equipment submitted to the Electro-Magnetic Compatibility Lab for testing was returned to HP, Inc.upon completion of testing.

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III. Electromagnetic Compatibility for Intentional Radiators

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Electromagnetic Compatibility Criteria for Intentional Radiators

Frequency Error

Test Conditions:

(1) Frequency counter may be replaced by spectrum analyzer's counter function.

(2) Measurement determinacy of the frequency counter shall be less than 1/10 of the prescribed limit level.

(3) Deduction of the attenuator shall enough to sense at the input of the frequency counter for preventing missing carrier due to amplitude fluctuation of EUT.

(4) When EUT is not available to transmit carrier wave but only burst signal, pulse measurement function with gate-time which is more than the burst time shall be used. Other practical, reasonable method may also be used.

Operational Condition of the Equipment Under Test:

(1) Set tested transmitting channel;

(2) Operation mode shall be un-modulated (CW), continuous. If impossible, operation mode shall adjust as a characteristic frequency spectrum can be identified, repeatable. (ex. one of harmonics, sub-carrier)

Test Method:

(1) When un-modulated carrier (continuous or durable burst) can be made, measure it directly with frequency counter.

(2) When the burst wave is being measured, it takes the measurement of time with precision assure, then measurement value shall be an average one.

(3) In case of the test mode which generates the specified frequency spectrum, measure the spectrum frequency with spectrum analyzer.

(4) In above-mentioned, when it does not measure the frequency which reciprocates with the direct test frequency, it shall be found the result required calculation.

(5) When it has multiple antenna connecters, measure in each antenna connecter.

Figure 2 represents a frequency counter feature of the spectrum analyzer being utilized for testing Frequency Error

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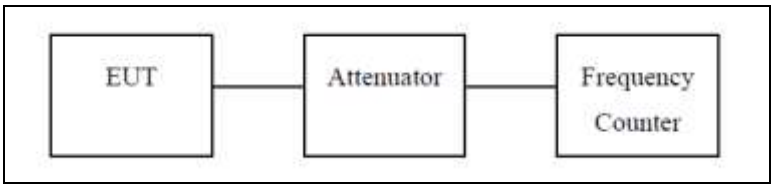


Figure 2. Frequency Error Test Configuration

Test Limit: Tolerance of frequency ($x10^{-6}$) 20 ppm

Test Engineer(s): Bryan Taylor

Test Date(s): 9/1/2022

Results: The EUT was compliant with the requirements of this section.

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Frequency Error Test Results

Band	Tx Chain	Mode	Frequency (MHz)	Frequency Deviation (MHz)	Limit (ppm)	Δ (ppm)
W52	Antenna 1	802.11a	5180	-0.0217	20	-4.18919
			5200	-0.0217	20	-4.17308
			5240	-0.0203	20	-3.87405
		802.11n (20MHz)	5180	-0.0217	20	-4.18919
			5200	-0.0217	20	-4.17308
			5240	-0.0217	20	-4.14122
		802.11 (40MHz)	5190	-0.0217	20	-4.18112
			5230	-0.0217	20	-4.14914
		802.11ac (80MHz)	5210	-0.0203	20	-3.89635
		802.11ax (80MHz)	5210	-0.0203	20	-3.89635
	Antenna 2	802.11a	5180	-0.0232	20	-4.47876
			5200	-0.0217	20	-4.17308
			5240	-0.0217	20	-4.14122
		802.11n (20MHz)	5180	-0.0217	20	-4.18919
			5200	-0.0217	20	-4.17308
			5240	-0.0217	20	-4.14122
		802.11 (40MHz)	5190	-0.0217	20	-4.18112
			5230	-0.0217	20	-4.14914
		802.11ac (80MHz)	5210	-0.0232	20	-4.45298
		802.11ax (80MHz)	5210	-0.0232	20	-4.45298

Table 8. Frequency Error Test Results (Band W52)

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Band	Tx Chain	Mode	Frequency (MHz)	Frequency Deviation (MHz)	Limit (ppm)	Δ (ppm)
W53	Antenna 1	802.11a	5260	-0.0246	20	-4.67681
			5280	-0.0232	20	-4.39394
			5320	-0.0232	20	-4.3609
		802.11n (20MHz)	5260	-0.0232	20	-4.41065
			5280	-0.0246	20	-4.65909
			5320	-0.0246	20	-4.62406
		802.11 (40MHz)	5270	-0.0232	20	-4.40228
			5310	-0.0232	20	-4.36911
		802.11ac (80MHz)	5290	-0.0246	20	-4.65028
		802.11ax (80MHz)	5290	-0.0246	20	-4.65028
	Antenna 2	802.11a	5260	-0.0246	20	-4.67681
			5280	-0.0246	20	-4.65909
			5320	-0.0246	20	-4.62406
		802.11n (20MHz)	5260	-0.0232	20	-4.41065
			5280	-0.0217	20	-4.10985
			5320	-0.0232	20	-4.3609
		802.11 (40MHz)	5270	-0.0232	20	-4.40228
			5310	-0.0217	20	-4.08663
		802.11ac (80MHz)	5290	-0.0217	20	-4.10208
		802.11ax (80MHz)	5290	-0.0217	20	-4.10208

Table 9. Frequency Error Test Results (Band W53)

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Band	Tx Chain	Mode	Frequency (MHz)	Frequency Deviation (MHz)	Limit (ppm)	Δ (ppm)
W56	Antenna 1	802.11a	5500	-0.0232	20	-4.21818
			5600	-0.0232	20	-4.14286
			5700	-0.0246	20	-4.31579
		802.11n (20MHz)	5500	-0.0246	20	-4.47273
			5600	-0.0188	20	-3.35714
			5700	-0.0246	20	-4.31579
		802.11 (40MHz)	5510	-0.0217	20	-3.93829
			5590	-0.0217	20	-3.88193
			5670	-0.0232	20	-4.09171
		802.11ac (80MHz)	5530	-0.0217	20	-3.92405
			5610	-0.0217	20	-3.86809
		802.11ax (80MHz)	5530	-0.0232	20	-4.1953
			5610	-0.0217	20	-3.86809
	Antenna 2	802.11a	5500	-0.0246	20	-4.47273
			5600	-0.0246	20	-4.39286
			5700	-0.0246	20	-4.31579
		802.11n (20MHz)	5500	-0.0246	20	-4.47273
			5600	-0.0246	20	-4.39286
			5700	-0.0246	20	-4.31579
		802.11 (40MHz)	5510	-0.0232	20	-4.21053
			5590	-0.0232	20	-4.15027
			5670	-0.0246	20	-4.33862
		802.11ac (80MHz)	5530	-0.0232	20	-4.1953
			5610	-0.0217	20	-3.86809
		802.11ax (80MHz)	5530	-0.0232	20	-4.1953
			5610	-0.0217	20	-3.86809

Table 10. Frequency Error Test Results (Band W56)

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Electromagnetic Compatibility Criteria for Intentional Radiators

Occupied Bandwidth and Spread Spectrum Bandwidth

Test Condition:

(1) Set the spectrum analyzer as follows:

- Center frequency: Operational frequency;
- Span: 2 to 3.5 times of the specified limit;
- RBW: Less than 3% of the specified limit;
- VBW: Equivalent to RBW;
- Sweep time: Minimum time keeping measurement accuracy (In the case of burst waves, the time at which one burst or more is included per sample);
- Quantity of sampling: More than 400 points;
- Sweep mode: Continuous sweep;
- Detecting mode: Max hold.

(2) For OFDM (non-burst wave) the spectrum analyzer settings are updated as follows:

- Average processing times: 10 or more;
- Detecting mode: Sample.

Operational Condition of the Equipment Under Test:

Set the test frequency, and then modulate at the standard coding test signal. In case of burst, modulate as ratio of time is smallest where the numbers of sub-carrier are few.

Test Method:

(1) Spectrum analyzer shall be set up as test condition above.

(2) Sweep shall be repeated until spectrum shape remains no change and all measurement data shall be stored into internal memory of spectrum analyzer or external peripheral computer.

(3) Convert dB value of all data into true value in Watt.

(4) Find sum total of all data, record it as “Amount power”.

(5) From the lowest frequency, sum the stored data one by one until the summed amount is 0.5% (5% for FHSS transmitter) of “Amount power” and the frequency related to the data getting to 0.5% shall be recorded as “The lowest frequency”)

(6) From the highest frequency, sum the stored data one by one until the summed amount is 0.5% (5% for FHSS transmitter) of “Amount power” and the frequency related to the data getting to 0.5% shall be recorded as “The highest frequency”.

(7) When it has multiple antenna connecters, measure in each antenna connecter.



Figure 3. Occupied Bandwidth and Spread Spectrum Bandwidth Test Configuration

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Test Limit: **5.2GHz band, 5.3GHz band**

The radio equipment which uses the frequency of 5210MHz and 5290MHz
40MHz system (OFDM)
limit level: within 78MHz

The radio equipment which uses the frequency of 5190MHz, 5230MHz, 5270MHz, 5310MHz
(OFDM (only for occupied bandwidth exceeds 19MHz))
40MHz system (OFDM)
limit level: within 38MHz

The radio equipment which uses the frequency of 5180MHz, 5200MHz, 5220MHz,
5240MHz, 5260MHz, 5280MHz, 5300MHz or 5320MHz
20MHz system (OFDM)
limit level: within 19MHz
20MHz system (other type)
limit level: within 18MHz

Test Engineer(s): Bryan Taylor

Test Date(s): 5/4/2022

Test Results: The EUT was compliant with the requirements of this section.

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Band W52 and W53 Occupied Bandwidth	Port 1 (99%) (MHz)	Port 2 (99%) (MHz)
5180MHz_Low Ch_36_20MHz BW_a-mode	16.532	16.494
5200MHz_low_mid Ch_40_20MHz BW_a-mode	16.519	16.505
5240MHz_high_mid Ch_48_20MHz BW_a-mode	16.464	16.473
5180MHz_Low Ch_36_20MHz BW_n-mode	17.748	17.694
5200MHz_low_mid Ch_40_20MHz BW_n-mode	17.702	17.657
5240MHz_high_mid Ch_48_20MHz BW_n-mode	17.659	17.657
5190MHz_Low Ch_38_40MHz BW_n-mode	36.209	36.152
5230MHz_high_mid Ch_46_40MHz BW_n-mode	36.198	36.356
5210MHz_Low mid Ch_42_80MHz BW_ac-mode	76.302	75.941
5210MHz_Low mid Ch_42_80MHz BW_ax-mode	77.629	77.570

Table 11. Occupied Bandwidth, Test Results (Band W52)

Band W52 and W53 Occupied Bandwidth	Port 1 (99%) (MHz)	Port 2 (99%) (MHz)
5260MHz_low_mid Ch_52_20MHz BW_a-mode	16.512	16.439
5280MHz_high_mid Ch_56_20MHz BW_a-mode	16.517	16.480
5320MHz_High Ch_64_20MHz BW_a-mode	16.436	16.519
5260MHz_low_mid Ch_52_20MHz BW_n-mode	16.478	17.626
5280MHz_high_mid Ch_56_20MHz BW_n-mode	16.493	17.719
5320MHz_High Ch_64_20MHz BW_n-mode	17.679	17.652
5270MHz_low_mid Ch_54_40MHz BW_n-mode	36.292	36.219
5310MHz_High Ch_62_40MHz BW_n-mode	36.123	36.186
5290MHz_High Ch_58_80MHz BW_ac-mode	75.957	76.094
5290MHz_High Ch_58_80MHz BW_ax-mode	77.628	77.576

Table 12. Occupied Bandwidth, Test Results (Band W53)

Band W56 Occupied Bandwidth	Port 1 (99%) (MHz)	Port 2 (99%) (MHz)
5500MHz_Low Ch_100_20MHz BW_a-mode	16.482	16.507
5600MHz_Mid Ch_120_20MHz BW_a-mode	16.502	16.473
5720MHz_High Ch_144_20MHz BW_a-mode	16.496	16.513
5500MHz_High Ch_100_20MHz BW_n-mode	17.692	17.697
5600MHz_High Ch_120_20MHz BW_n-mode	17.701	17.671
5720MHz_Low Ch_144_20MHz BW_n-mode	17.730	17.734
5500MHz_Low Ch_100_20MHz BW_ac-mode	17.695	17.651
5600MHz_Mid Ch_120_20MHz BW_ac-mode	17.674	17.682
5720MHz_High Ch_144_20MHz BW_ac-mode	17.671	17.719
5510MHz_High Ch_102_40MHz BW_n-mode	36.199	36.244
5590MHz_High Ch_118_40MHz BW_n-mode	36.124	36.261
5710MHz_Low Ch_142_40MHz BW_n-mode	36.264	36.300
5510MHz_Mid Ch_102_40MHz BW_ac-mode	36.207	36.152
5590MHz_High Ch_118_40MHz BW_ac-mode	36.208	36.231
5710MHz_High Ch_142_40MHz BW_ac-mode	36.262	36.308
5530MHz_Low Ch_106_80MHz BW_ac-mode	75.915	75.788
5610MHz_Mid Ch_122_80MHz BW_ac-mode	75.870	75.690
5690MHz_High Ch_138_80MHz BW_ac-mode	76.051	75.837
5530MHz_Low Ch_106_80MHz BW_ax-mode	77.593	77.729
5610MHz_Mid Ch_122_80MHz BW_ax-mode	77.196	77.429
5690MHz_High Ch_138_80MHz BW_ax-mode	77.665	77.635

Table 13. Occupied Bandwidth, Test Results (Band W56)

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Electromagnetic Compatibility Criteria for Intentional Radiators

Spurious Emissions

Test Condition:

(1) Detecting spurious radiation, the spectrum analyzer shall be set as follows:
RBW: 1MHz
VBW: Same as RBW
Scale of Y axis: 10dB/Div
Input level: as maximum dynamic range
Sweep time: Least time with measurement precision assured
Quantity of data: More than 400 points
Sweep mode: Single sweep
Detecting mode: Positive peak

(2) Determining the level of the detected spurious emission the following settings of the spectrum analyzer shall be used;
Center frequency: A frequency of detected spurious emissions;
Span: 0Hz;
RBW: 1MHz;
VBW: Same as RBW
Scale of Y axis: 10dB / Div;
Input level: Maximum Dynamic Range
Sweep time: Least time with measurement precision assured
Quantity of data: More than 400 points
Sweep mode: Single sweep
Detecting mode: Sampling

Operational Condition of the Equipment Under Test:

(3) Set to test frequency, continuous transmission state or durable (constant period and constant burst time) burst transmission state. When spread spectrum code being used, set to test spread spectrum code and modulate as the standard coding test signal. When it has multiple antenna connecters and the function of controlling antenna power, it shall be set as the power control to maximum power per antenna connecter.

Test Method:

(4) Spectrum analyzer shall be set up as (1) and significant spurious radiation shall be detected. If the level of the detected spurious radiation is lower than the specified limit, the level shall be recorded as a final result. When the level of the detected spurious radiation amplitudes exceed the limit level, sweep frequency span shall change like 100 MHz, 10 MHz, 1MHz and more narrower until determining the precise frequency. Determining the spectrum analyzer as (2), average value of unwanted radiation amplitude shall be a final result. (Where the burst signal is measured, averaging shall be applied to on-time of the burst signal). When it has multiple antenna connecters, measure in each antenna connecter.



Figure 4. Spurious Emissions Test Configuration

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Test Limit:

* Attachment 1 (Unwanted Emission Strength)

W52			
20MHz system		40MHz system	80MHz system
OBW : 18MHz or less	OBW : 18 - 20 MHz		
5,142 MHz or less : 2.5 μW/MHz	5,142 MHz or less : 2.5 μW/MHz	5,141.6 MHz or less : 2.5 μW/MHz	5,123.2 MHz or less : 2.5 μW/MHz
5,142 - 5,150 MHz : 15 μW/MHz	5,142 - 5,150 MHz : 15 μW/MHz	5,141.6 - 5,150 MHz : 15 μW/MHz	5,123.2 - 5,150 MHz : 15 μW/MHz
	5,250 - 5,250.2 MHz : $10^{-(f-5,250)/0.2-1.75}$ mW/MHz		
5,250 - 5,251 MHz : $10^{1-(f-5)}$ mW/MHz	5,250.2 - 5,251 MHz : $10^{1-(f-5)}$ mW/MHz	5,250 - 5,251 MHz : $10^{1-(f-5)+\log(1/2)}$ mW/MHz	5,250 - 5,251 MHz : $10^{1-(f-5)+\log(1/4)}$ mW/MHz
5,251 - 5,260 MHz : $10^{1-(f-5)/9-1.1}$ mW/MHz	5,251 - 5,260 MHz : $10^{1-(f-5)/9-1.1}$ mW/MHz	5,251 - 5,270 MHz : $10^{(f-5)/19-1.1+\log(1/2)}$ mW/MHz	5,251 - 5,290 MHz : $10^{(f-5)/39-1.1+\log(1/4)}$ mW/MHz
5,260 - 5,266.7 MHz : $10^{1.8-(f-5)/9}$ mW/MHz	5,260 - 5,266.7 MHz : $10^{1.8-(f-5)/9-2}$ mW/MHz	5,270 - 5,276.4 MHz : $10^{1.8-(f-5)/9-4.8+\log(1/2)}$ mW/MHz	5,290 - 5,296.7 MHz : $10^{1.8-(f-5)/9-4.8+\log(1/4)}$ mW/MHz
5,266.7 MHz or more : 2.5 μW/MHz	5,266.7 MHz or more : 2.5 μW/MHz	5,276.4 MHz or more : 2.5 μW/MHz	5,296.7 MHz or more : 2.5 μW/MHz
f = MHz, Difference from 5240 (MHz)	f = MHz, Difference from 5240 (MHz)	f = MHz, Difference from 5230 (MHz)	f = MHz, Difference from 5210 (MHz)

W53			
20MHz system		40MHz system	80MHz system
OBW : 18MHz or less	OBW : 18 - 20 MHz		
5,233.3 MHz or less : 2.5 μW/MHz	5,233.3 MHz or less : 2.5 μW/MHz	5,221.6 MHz or less : 2.5 μW/MHz	5,203.3 MHz or less : 2.5 μW/MHz
5,233.3 - 5,240 MHz : $10^{1.8-(f-5)/9-2}$ mW/MHz	5,233.3 - 5,240 MHz : $10^{1.8-(f-5)/9-2}$ mW/MHz	5,221.6 - 5,230 MHz : $10^{1.8-(f-5)/9-4.8+\log(1/2)}$ mW/MHz	5,203.3 - 5,210 MHz : $10^{1.8-(f-5)/9-4.8+\log(1/4)}$ mW/MHz
5,240 - 5,249 MHz : $10^{1-(f-5)/9-1.1}$ mW/MHz	5,240 - 5,249 MHz : $10^{1-(f-5)/9-1.1}$ mW/MHz	5,230 - 5,249 MHz : $10^{1-(f-5)/9-1.1+\log(1/2)}$ mW/MHz	5,210 - 5,249 MHz : $10^{1-(f-5)/9-1.1+\log(1/4)}$ mW/MHz
5,249 - 5,250 MHz : $10^{1-(f-5)}$ mW/MHz	5,249 - 5,249.8 MHz : $10^{1-(f-5)}$ mW/MHz	5,249 - 5,250 MHz : $10^{1-(f-5)+\log(1/2)}$ mW/MHz	5,249 - 5,250 MHz : $10^{1-(f-5)+\log(1/4)}$ mW/MHz
5,350 MHz or more : 2.5 μW/MHz	5,249.8 - 5,250 MHz : $10^{1-(f-5)/0.2-1.75}$ mW/MHz	5,350 - 5,356.4 MHz : 15 μW/MHz	5,350 - 5,376.8 MHz : 15 μW/MHz
	5,350 MHz or more : 2.5 μW/MHz	5,356.4 MHz or more : 2.5 μW/MHz	5,376.8 MHz or more : 2.5 μW/MHz
f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5270 (MHz)	f = MHz, Difference from 5290 (MHz)

W56			
20MHz system		40MHz system	80MHz system
DSSS, etc.	OFDM		
5,470 MHz or less : 12.5 uW/MHz	5,460 MHz or less : 2.5 uW/MHz	5,460 MHz or less : 12.5 uW/MHz	5,460 MHz or less : 12.5 uW/MHz
	5,460 - 5,470 MHz : 12.5 uW/MHz	5,460 - 5,470 MHz : 50 uW/MHz	5,460 - 5,489.5 MHz : 50 uW/MHz
5,730 MHz or more : 12.5 uW/MHz	5,745 - 5,765 MHz : 12.5 uW/MHz	5,770 MHz or more : 12.5 uW/MHz	5,489.5 - 5,470 MHz : 51.2 uW/MHz
	Over 5,765 MHz : 2.5 uW/MHz		5,770 MHz or more : 12.5 uW/MHz

Test Engineer(s): Bryan Taylor

Test Date(s): 5/4/2022

Test Results The EUT was compliant with the requirements of this section.

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Band W52 Japan Spurious Emissions	Frequency Range (MHz)	Unwanted Spurious Emissions		Limit (µW)
		Port 1 (µW)	Port 2 (µW)	
5180MHz_Low Ch_36_20MHz BW_a-mode	30MHz - Below Carrier	0.016372	0.002955	2.5
5180MHz_Low Ch_36_20MHz BW_a-mode	Above Carrier - 26GHz	0.106782	0.090116	2.5
5200MHz_low_mid Ch_40_20MHz BW_a-mode	30MHz - Below Carrier	0.003056	0.002892	2.5
5200MHz_low_mid Ch_40_20MHz BW_a-mode	Above Carrier - 26GHz	0.089475	0.101578	2.5
5240MHz_high_mid Ch_48_20MHz BW_a-mode	30MHz - Below Carrier	0.002518	0.002561	2.5
5240MHz_high_mid Ch_48_20MHz BW_a-mode	Above Carrier - 26GHz	0.099312	0.089743	2.5
5180MHz_Low Ch_36_20MHz BW_n-mode	30MHz - Below Carrier	0.002562	0.002508	2.5
5180MHz_Low Ch_36_20MHz BW_n-mode	Above Carrier - 26GHz	0.095039	0.092662	2.5
5200MHz_low_mid Ch_40_20MHz BW_n-mode	30MHz - Below Carrier	0.002723	0.002800	2.5
5200MHz_low_mid Ch_40_20MHz BW_n-mode	Above Carrier - 26GHz	0.116252	0.090490	2.5
5240MHz_high_mid Ch_48_20MHz BW_n-mode	30MHz - Below Carrier	0.002189	0.002507	2.5
5240MHz_high_mid Ch_48_20MHz BW_n-mode	Above Carrier - 26GHz	0.092427	0.112435	2.5
5190MHz_Low Ch_38_40MHz BW_n-mode	30MHz - Below Carrier	0.002351	0.003496	2.5
5190MHz_Low Ch_38_40MHz BW_n-mode	Above Carrier - 26GHz	0.103015	0.093433	2.5
5230MHz_high_mid Ch_46_40MHz BW_n-mode	30MHz - Below Carrier	0.002771	0.002993	2.5
5230MHz_high_mid Ch_46_40MHz BW_n-mode	Above Carrier - 26GHz	0.117598	0.098605	2.5
5210MHz_Low mid Ch_42_80MHz BW_ac-mode	30MHz - Below Carrier	0.002598	0.002767	2.5
5210MHz_Low mid Ch_42_80MHz BW_ac-mode	Above Carrier - 26GHz	0.086876	0.083062	2.5
5210MHz_Low mid Ch_42_80MHz BW_ax-mode	30MHz - Below Carrier	0.004798	0.003777	2.5
5210MHz_Low mid Ch_42_80MHz BW_ax-mode	Above Carrier - 26GHz	0.090594	0.095324	2.5

Table 14. Spurious Emissions (Band W52)

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Band W53 Japan Spurious Emissions	Frequency Range (MHz)	Unwanted Spurious Emissions		Limit (µW)
		Port 1 (µW)	Port 2 (µW)	
5260MHz_low_mid Ch_52_20MHz BW_a-mode	30MHz - Below Carrier	0.003102	0.002906	2.5
5260MHz_low_mid Ch_52_20MHz BW_a-mode	Above Carrier - 26GHz	0.093627	0.098152	2.5
5280MHz_high_mid Ch_56_20MHz BW_a-mode	30MHz - Below Carrier	0.002232	0.002094	2.5
5280MHz_high_mid Ch_56_20MHz BW_a-mode	Above Carrier - 26GHz	0.087136	0.103110	2.5
5320MHz_High Ch_64_20MHz BW_a-mode	30MHz - Below Carrier	0.001479	0.001666	2.5
5320MHz_High Ch_64_20MHz BW_a-mode	Above Carrier - 26GHz	0.085290	0.096316	2.5
5260MHz_low_mid Ch_52_20MHz BW_n-mode	30MHz - Below Carrier	0.002454	0.002582	2.5
5260MHz_low_mid Ch_52_20MHz BW_n-mode	Above Carrier - 26GHz	0.095918	0.102188	2.5
5280MHz_high_mid Ch_56_20MHz BW_n-mode	30MHz - Below Carrier	0.001567	0.002193	2.5
5280MHz_high_mid Ch_56_20MHz BW_n-mode	Above Carrier - 26GHz	0.080094	0.099174	2.5
5320MHz_High Ch_64_20MHz BW_n-mode	30MHz - Below Carrier	0.001598	0.001553	2.5
5320MHz_High Ch_64_20MHz BW_n-mode	Above Carrier - 26GHz	0.086477	0.088410	2.5
5270MHz_low_mid Ch_54_40MHz BW_n-mode	30MHz - Below Carrier	0.001904	0.002312	2.5
5270MHz_low_mid Ch_54_40MHz BW_n-mode	Above Carrier - 26GHz	0.093735	0.096073	2.5
5310MHz_High Ch_62_40MHz BW_n-mode	30MHz - Below Carrier	0.001770	0.001492	2.5
5310MHz_High Ch_62_40MHz BW_n-mode	Above Carrier - 26GHz	0.098175	0.090033	2.5
5290MHz_High Ch_58_80MHz BW_ac-mode	30MHz - Below Carrier	0.003298	0.002989	2.5
5290MHz_High Ch_58_80MHz BW_ac-mode	Above Carrier - 26GHz	0.086040	0.098062	2.5
5290MHz_High Ch_58_80MHz BW_ax-mode	30MHz - Below Carrier	0.002721	0.003099	2.5
5290MHz_High Ch_58_80MHz BW_ax-mode	Above Carrier - 26GHz	0.102542	0.084684	2.5

Table 15. Spurious Emissions (Band W53)

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Band W56 Japan Spurious Emissions	Frequency Range (MHz)	Unwanted Spurious Emissions		Limit (µW)
		Port 1 (µW)	Port 2 (µW)	
5500MHz_Low Ch_100_20MHz BW_a-mode	30MHz - Below Carrier	0.002343	0.002260	2.5
5500MHz_Low Ch_100_20MHz BW_a-mode	Above Carrier - 26GHz	0.105196	0.097930	2.5
5600MHz_Mid Ch_120_20MHz BW_a-mode	30MHz - Below Carrier	0.001534	0.001801	2.5
5600MHz_Mid Ch_120_20MHz BW_a-mode	Above Carrier - 26GHz	0.090699	0.081677	2.5
5720MHz_High Ch_144_20MHz BW_a-mode	30MHz - Below Carrier	0.014086	0.001402	2.5
5720MHz_High Ch_144_20MHz BW_a-mode	Above Carrier - 26GHz	0.091559	0.134184	2.5
5500MHz_High Ch_100_20MHz BW_n-mode	30MHz - Below Carrier	0.002013	0.002166	2.5
5500MHz_High Ch_100_20MHz BW_n-mode	Above Carrier - 26GHz	0.106194	0.090033	2.5
5600MHz_High Ch_120_20MHz BW_n-mode	30MHz - Below Carrier	0.001384	0.002342	2.5
5600MHz_High Ch_120_20MHz BW_n-mode	Above Carrier - 26GHz	0.094081	0.078506	2.5
5720MHz_Low Ch_144_20MHz BW_n-mode	30MHz - Below Carrier	0.001442	0.001385	2.5
5720MHz_Low Ch_144_20MHz BW_n-mode	Above Carrier - 26GHz	0.093627	0.095896	2.5
5500MHz_Low Ch_100_20MHz BW_ac-mode	30MHz - Below Carrier	0.001915	0.002259	2.5
5500MHz_Low Ch_100_20MHz BW_ac-mode	Above Carrier - 26GHz	0.104496	0.106194	2.5
5600MHz_Mid Ch_120_20MHz BW_ac-mode	30MHz - Below Carrier	0.002089	0.002344	2.5
5600MHz_Mid Ch_120_20MHz BW_ac-mode	Above Carrier - 26GHz	0.109597	0.084159	2.5
5720MHz_High Ch_144_20MHz BW_ac-mode	30MHz - Below Carrier	0.001296	0.001533	2.5
5720MHz_High Ch_144_20MHz BW_ac-mode	Above Carrier - 26GHz	0.079726	0.086577	2.5
5510MHz_High Ch_102_40MHz BW_n-mode	30MHz - Below Carrier	0.002295	0.002559	2.5
5510MHz_High Ch_102_40MHz BW_n-mode	Above Carrier - 26GHz	0.097679	0.093799	2.5
5590MHz_High Ch_118_40MHz BW_n-mode	30MHz - Below Carrier	0.002635	0.001783	2.5
5590MHz_High Ch_118_40MHz BW_n-mode	Above Carrier - 26GHz	0.096650	0.093476	2.5
5710MHz_Low Ch_142_40MHz BW_n-mode	30MHz - Below Carrier	0.001369	0.001384	2.5
5710MHz_Low Ch_142_40MHz BW_n-mode	Above Carrier - 26GHz	0.080002	0.079013	2.5
5510MHz_Mid Ch_102_40MHz BW_ac-mode	30MHz - Below Carrier	0.002920	0.002657	2.5
5510MHz_Mid Ch_102_40MHz BW_ac-mode	Above Carrier - 26GHz	0.088410	0.085389	2.5
5590MHz_High Ch_118_40MHz BW_ac-mode	30MHz - Below Carrier	0.001830	0.001959	2.5
5590MHz_High Ch_118_40MHz BW_ac-mode	Above Carrier - 26GHz	0.090490	0.092024	2.5
5710MHz_High Ch_142_40MHz BW_ac-mode	30MHz - Below Carrier	0.001658	0.001765	2.5
5710MHz_High Ch_142_40MHz BW_ac-mode	Above Carrier - 26GHz	0.123965	0.086656	2.5
5530MHz_Low Ch_106_80MHz BW_ac-mode	30MHz - Below Carrier	0.002798	0.002771	2.5
5610MHz_Mid Ch_106_80MHz BW_ac-mode	Above Carrier - 26GHz	0.097810	0.090800	2.5
5610MHz_Mid Ch_122_80MHz BW_ac-mode	30MHz - Below Carrier	0.001860	0.002510	2.5
5610MHz_Mid Ch_122_80MHz BW_ac-mode	Above Carrier - 26GHz	0.088210	0.097860	2.5
5690MHz_High Ch_138_80MHz BW_ac-mode	30MHz - Below Carrier	0.001775	0.001889	2.5
5690MHz_High Ch_138_80MHz BW_ac-mode	Above Carrier - 26GHz	0.096783	0.340722	2.5

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Band W56 Japan Spurious Emissions	Frequency Range (MHz)	Unwanted Spurious Emissions		Limit (µW)
5530MHz_Low Ch_106_80MHz BW_ax-mode	30MHz - Below Carrier	0.005539	0.002533	2.5
5610MHz_Mid Ch_106_80MHz BW_ax-mode	Above Carrier - 26GHz	0.097140	0.098220	2.5
5610MHz_Mid Ch_122_80MHz BW_ax-mode	30MHz - Below Carrier	0.002257	0.002483	2.5
5610MHz_Mid Ch_122_80MHz BW_acxmode	Above Carrier - 26GHz	0.103134	0.084372	2.5
5690MHz_High Ch_138_80MHz BW_ax-mode	30MHz - Below Carrier	0.002081	0.001775	2.5
5690MHz_High Ch_138_80MHz BW_ax-mode	Above Carrier - 26GHz	0.090719	0.234261	2.5

Table 16. Spurious Emissions (Band W56)

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Electromagnetic Compatibility Criteria for Intentional Radiators

Error of Antenna Power

Test Condition: (1) Measure an equivalent noise bandwidth in RBW 1MHz of spectrum analyzer. Find offset revised RBW to 1MHz equivalent noise bandwidth.

However, when the spread bandwidth is 1MHz or less, it is unnecessary to correct with measured equivalent noise bandwidth.

Value of the attenuator shall be suitable to input dynamic range of the spectrum analyzer.

Detecting maximum powered frequency of antenna power, the spectrum analyzer shall setup as follows:

- Center frequency: Operational frequency
- Sweep frequency span: About 2 times as large as the occupied bandwidth
- RBW: 1MHz
- VBW: About 3 times as large as RBW
- Scale of Y axis: 10dB/Div
- Sweep time: Least time with measurement precision assured (In case of burst signal, more than duration time of one burst per sample)
- Trigger event: free run
- Quantity of data: more than 400 points
- Sweep mode: continuous sweep
- Detecting mode: positive peak
- Trace mode: max hold

(2) Determining the level of the detected antenna power, the spectrum analyzer shall be set as follows. In this case, on the mode of the power meter connecting to IF out put, it shall be calibrated the power meter indication for the output power of tested equipment;

- Center frequency: frequency of generating maximum power (detected frequency)
- Sweep frequency span: 0Hz
- RBW: 1MHz
- Sweep mode: continuous sweep

Operational Condition of the Equipment Under Test:

Set to test frequency, continuous transmission state or durable (constant period and constant burst time) burst transmission state.

In case of using spread spectrum code, set to test spread spectrum code, modulate as the standard coding test signal.

In case of OFDM, it shall be burst transmission state, and modulate as ratio of time is smallest where the numbers of sub-carriers are few. However it shall carry out in the range which may be continuously produced in the real operating status. If it cannot be modulated like this, it may be continuous transmission state or durable (constant period and constant burst time) burst transmission mode.

When it has multiple antenna connecters and the function of controlling antenna power, it shall be set the power control to the maximum power per antenna connecter.

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Test Method:

OFDM or spectrum spread type with DSSS:
The spectrum analyzer shall setup as in test condition (1). Sweeping shall be repeated until spectrum appearance does not change. Measure the frequency that the power per 1MHz gives a peak. Set spectrum analyzer as in test condition (2). The power meter shall be connected to IF output of the spectrum analyzer. The antenna power is as follows.

When it is OFDM and has multiple modulation types of sub-carrier, measure antenna power in each case and then the maximum value shall be a measured value. When it has multiple antenna connecters, measure each antenna connecter.

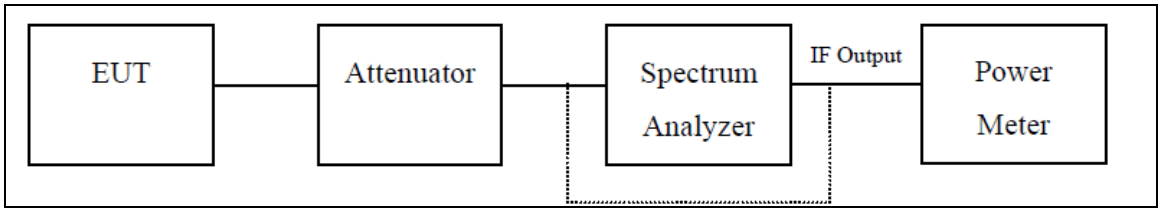


Figure 5. Antenna Power Test Configuration

Test Limit: Antenna power designated value:

5.2GHz band, 5.3GHz band
limit error: max ＋20%, min -80%
Power of antenna:
Spectrum spread type using DSSS 10mW/MHz or less
Amplitude modulation, phase modulation, frequency modulation, pulse modulation or multiple types of them
10mW or less

OFDM
Occupied bandwidth ≤19MHz or less 10mW/MHz or less
19MHz＜Occupied band width ≤ 38MHz 5mW/MHz or less

E.I.R.P:
Occupied bandwidth≤19MHz
5180MHz, 5200MHz, 5220MHz or 5240MHz
10mW/MHz or less (In case of transmit power control)
5mW/MHz or less (Other than mentioned-above)
19MHz＜Occupied bandwidth ≤38MHz
5190MHz, 5230MHz 5mW/MHz or less

5270MHz, 5310MHz
5mW/MHz or less (In case of transmit power control)
2.5mW/MHz or less (Other than mentioned-above)

Test Engineer(s): Bryan Taylor

Test Date(s): 5/4/2022

Test Results: The EUT was compliant with the requirements of this section.

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Mode	Freq (MHz)	Chain 1 Conducted Pwr (dBm)	Chain 1 Conducted Pwr (mW/MHz)	Antenna Power Limit (mW/MHz)	Margin	Rated Power (mW/MHz)	Power Deviation (%)
802.11a	5180	-3.65	0.431519077	10	9.568480923	1.472	-70.68484532
802.11a	5200	-2.13	0.612350392	10	9.387649608	1.472	-58.40010926
802.11a	5240	-1.35	0.732824533	10	9.267175467	1.472	-50.21572465
802.11n	5180	-2.31	0.587489353	10	9.412510647	1.472	-60.08903855
802.11n	5200	-2.35	0.582103218	10	9.417896782	1.472	-60.45494444
802.11n	5240	-1.35	0.732824533	10	9.267175467	1.472	-50.21572465
802.11n(40)	5190	-1.75	0.668343918	5	4.331656082	1.472	-54.59620125
802.11n(40)	5230	-2.67	0.540754323	5	4.459245677	1.472	-63.26397263
802.11ac	5210	-8.28	0.148593564	2.5	2.351406436	0.3	-50.46881192
802.11ax	5210	-8.64	0.136772883	2.5	2.363227117	0.3	-54.40903915

Mode	Freq (MHz)	Chain 2 Conducted Pwr (dBm)	Chain 2 Conducted Pwr (mW/MHz)	Antenna Power Limit (mW/MHz)	Margin	Rated Power (mW/MHz)	Power Deviation (%)
802.11a	5180	-3.13	0.486407206	10	9.513592794	1.472	-66.95603222
802.11a	5200	-2.5	0.562341325	10	9.437658675	1.472	-61.79746432
802.11a	5240	-1.3	0.741310241	10	9.258689759	1.472	-49.63924991
802.11n	5180	-2.6	0.549540874	10	9.450459126	1.472	-62.6670602
802.11n	5200	-2.68	0.539510623	10	9.460489377	1.472	-63.34846314
802.11n	5240	-1.29	0.743019138	10	9.256980862	1.472	-49.52315639
802.11n(40)	5190	-2.48	0.564936975	5	4.435063025	1.472	-61.62112943
802.11n(40)	5230	-1.84	0.654636174	5	4.345363826	1.472	-55.52743383
802.11ac	5210	-8.12	0.154170045	2.5	2.345829955	0.3	-48.6099849
802.11ax	5210	-8.24	0.149968484	2.5	2.350031516	0.3	-50.01050548

Mode	Freq (MHz)	MIMO Mode	MIMO Conducted Pwr (mW/MHz)	Antenna Power Limit (mW/MHz)	Margin	Rated Power (mW/MHz)	Power Deviation (%)
802.11a							
802.11a							
802.11a							
802.11n	5180	Chain 1+Chain 2	1.137030226	10	8.862969774	1.472	-22.75609875
802.11n	5200	Chain 1+Chain 2	1.12161384	10	8.87838616	1.472	-23.80340759
802.11n	5240	Chain 1+Chain 2	1.475843671	10	8.524156329	1.472	0.261118956
802.11n(40)	5190	Chain 1+Chain 2	1.233280892	5	3.766719108	1.472	-16.21733068
802.11n(40)	5230	Chain 1+Chain 2	1.195390497	5	3.804609503	1.472	-18.79140645
802.11ac	5210	Chain 1+Chain 2	0.30276361	2.5	2.19723639	0.3	0.921203175
802.11ax	5210	Chain 1+Chain 2	0.286741366	2.5	2.213258634	0.3	-4.41954463

Table 17. Error of Antenna Power Output, Conducted Test Results (Band W52)

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Mode	Freq (MHz)	Chain 1 Conducted Pwr (dBm)	Chain 1 Conducted Pwr (mW/MHz)	Gain (dBi)	Gain (numeric)	EIRP (mW/MHz)	EIRP Limit (mW/MHz)	Margin
802.11a	5180	-3.65	0.431519077	3.5	2.238721	0.9660509	10	9.033949121
802.11a	5200	-2.13	0.612350392	3.5	2.238721	1.3708818	10	8.629118234
802.11a	5240	-1.35	0.732824533	3.5	2.238721	1.6405898	10	8.359410227
802.11n	5180	-2.31	0.587489353	3.5	2.238721	1.3152248	10	8.684775168
802.11n	5200	-2.35	0.582103218	3.5	2.238721	1.3031668	10	8.696833222
802.11n	5240	-1.35	0.732824533	3.5	2.238721	1.6405898	10	8.359410227
802.11n(40)	5190	-1.75	0.668343918	3.5	2.238721	1.4962357	5	3.503764344
802.11n(40)	5230	-2.67	0.540754323	3.5	2.238721	1.2105981	5	3.789401866
802.11ac	5210	-8.28	0.148593564	3.5	2.238721	0.3326596	2.5	2.167340447
802.11ax	5210	-8.64	0.136772883	3.5	2.238721	0.3061963	2.5	2.193803657

Mode	Freq (MHz)	Chain 2 Conducted Pwr (dBm)	Chain 2 Conducted Pwr (mW/MHz)	Gain (dBi)	Gain (numeric)	EIRP (mW/MHz)	EIRP Limit (mW/MHz)	Margin
802.11a	5180	-3.13	0.486407206	3.5	2.238721	1.0889301	10	8.911069907
802.11a	5200	-2.5	0.562341325	3.5	2.238721	1.2589254	10	8.741074588
802.11a	5240	-1.3	0.741310241	3.5	2.238721	1.6595869	10	8.340413093
802.11n	5180	-2.6	0.549540874	3.5	2.238721	1.2302688	10	8.769731229
802.11n	5200	-2.68	0.539510623	3.5	2.238721	1.2078138	10	8.792186165
802.11n	5240	-1.29	0.743019138	3.5	2.238721	1.6634127	10	8.33658735
802.11n(40)	5190	-2.48	0.564936975	3.5	2.238721	1.2647363	5	3.735263653
802.11n(40)	5230	-1.84	0.654636174	3.5	2.238721	1.4655478	5	3.534452159
802.11ac	5210	-8.12	0.154170045	3.5	2.238721	0.3451437	2.5	2.154856261
802.11ax	5210	-8.24	0.149968484	3.5	2.238721	0.3357376	2.5	2.164262386

Mode	Freq (MHz)	MIMO MODE	MIMO Conducted Pwr (mW/MHz)	Gain (dBi)	Gain (numeric)	EIRP (mW/MHz)	EIRP Limit (mW/MHz)	Margin
802.11a								
802.11a								
802.11a								
802.11n	5180	Chain 1+Chain 2	1.137030226	3.5	2.238721	2.5454936	10	7.454506397
802.11n	5200	Chain 1+Chain 2	1.12161384	3.5	2.238721	2.5109806	10	7.489019386
802.11n	5240	Chain 1+Chain 2	1.475843671	3.5	2.238721	3.3040024	10	6.695997576
802.11n(40)	5190	Chain 1+Chain 2	1.233280892	3.5	2.238721	2.760972	5	2.239027996
802.11n(40)	5230	Chain 1+Chain 2	1.195390497	3.5	2.238721	2.676146	5	2.323854025
802.11ac	5210	Chain 1+Chain 2	0.30276361	3.5	2.238721	0.6778033	2.5	1.822196707
802.11ax	5210	Chain 1+Chain 2	0.286741366	3.5	2.238721	0.641934	2.5	1.858066042

Table 18. Error of Antenna Power Output, EIRP Test Results (Band W52)

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Mode	Freq (MHz)	Chain 1 Conducted Pwr (dBm)	Chain 1 Conducted Pwr (mW/MHz)	Antenna Power Limit (mW/MHz)	Margin	Rated Power (mW/MHz)	Power Deviation (%)
802.11a	5260	-1.27	0.746448758	10	9.253551242	1.496	-50.10369262
802.11a	5280	-1.68	0.679203633	10	9.320796367	1.496	-54.59868766
802.11a	5320	-1.55	0.699841996	10	9.300158004	1.496	-53.21911791
802.11n	5260	-1.73	0.671428853	10	9.328571147	1.496	-55.11839218
802.11n	5280	-1.67	0.680769359	10	9.319230641	1.496	-54.49402683
802.11n	5320	-1.43	0.719448978	10	9.280551022	1.496	-51.90849078
802.11n(40)	5270	-1.92	0.642687717	5	4.357312283	1.496	-57.03959109
802.11n(40)	5310	-2.11	0.615176873	5	4.384823127	1.496	-58.87855129
802.11ac	5290	-7.72	0.169044093	2.5	2.330955907	0.35	-51.70168767
802.11ax	5290	-7.68	0.170608239	2.5	2.329391761	0.35	-51.25478889

Mode	Freq (MHz)	Chain 2 Conducted Pwr (dBm)	Chain 2 Conducted Pwr (mW/MHz)	Antenna Power Limit (mW/MHz)	Margin	Rated Power (mW/MHz)	Power Deviation (%)
802.11a	5260	-1.22	0.755092228	10	9.244907772	1.496	-49.52592061
802.11a	5280	-1.4	0.72443596	10	9.27556404	1.496	-51.57513636
802.11a	5320	-1.31	0.739605275	10	9.260394725	1.496	-50.56114472
802.11n	5260	-1.76	0.666806769	10	9.333193231	1.496	-55.427355
802.11n	5280	-1.61	0.690239804	10	9.309760196	1.496	-53.86097568
802.11n	5320	-2.66	0.54200089	10	9.45799911	1.496	-63.76999396
802.11n(40)	5270	-2.29	0.59020108	5	4.40979892	1.496	-60.54805614
802.11n(40)	5310	-2.39	0.576766463	5	4.423233537	1.496	-61.44609202
802.11ac	5290	-7.23	0.189234362	2.5	2.310765638	0.35	-45.93303947
802.11ax	5290	-7.72	0.169044093	2.5	2.330955907	0.35	-51.70168767

Mode	Freq (MHz)	MIMO Mode	MIMO Conducted Pwr (mW/MHz)	Antenna Power Limit (mW/MHz)	Margin	Rated Power (mW/MHz)	Power Deviation (%)
802.11a							
802.11a							
802.11a							
802.11n	5260	Chain 1+Chain 2	1.338235622	10	8.661764378	1.496	-10.54574718
802.11n	5280	Chain 1+Chain 2	1.371009163	10	8.628990837	1.496	-8.355002504
802.11n	5320	Chain 1+Chain 2	1.261449868	10	8.738550132	1.496	-15.67848473
802.11n(40)	5270	Chain 1+Chain 2	1.232888797	5	3.767111203	1.496	-17.58764723
802.11n(40)	5310	Chain 1+Chain 2	1.191943336	5	3.808056664	1.496	-20.32464331
802.11ac	5290	Chain 1+Chain 2	0.358278455	2.5	2.141721545	0.35	2.365272865
802.11ax	5290	Chain 1+Chain 2	0.339652332	2.5	2.160347668	0.35	-2.956476553

Table 19. Error of Antenna Power Output, Conducted Test Results (Band W53)

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Mode	Freq (MHz)	Chain 1 Conducted Pwr (dBm)	Chain 1 Conducted Pwr (mW/MHz)	Gain (dBi)	Gain (numeric)	EIRP (mW/MHz)	EIRP Limit (mW/MHz)	Margin
802.11a	5260	-1.27	0.746448758	3.5	2.238721	1.671091	10	8.328909386
802.11a	5280	-1.68	0.679203633	3.5	2.238721	1.520548	10	8.47945247
802.11a	5320	-1.55	0.699841996	3.5	2.238721	1.566751	10	8.43324893
802.11n	5260	-1.73	0.671428853	3.5	2.238721	1.503142	10	8.496858034
802.11n	5280	-1.67	0.680769359	3.5	2.238721	1.524053	10	8.475947246
802.11n	5320	-1.43	0.719448978	3.5	2.238721	1.610646	10	8.389354365
802.11n(40)	5270	-1.92	0.642687717	3.5	2.238721	1.438799	5	3.561201422
802.11n(40)	5310	-2.11	0.615176873	3.5	2.238721	1.377209	5	3.622790531
802.11ac	5290	-7.72	0.169044093	3.5	2.238721	0.378443	2.5	2.121557415
802.11ax	5290	-7.68	0.170608239	3.5	2.238721	0.381944	2.5	2.118055729

Mode	Freq (MHz)	Chain 2 Conducted Pwr (dBm)	Chain 2 Conducted Pwr (mW/MHz)	Gain (dBi)	Gain (numeric)	EIRP (mW/MHz)	EIRP Limit (mW/MHz)	Margin
802.11a	5260	-1.22	0.755092228	3.5	2.238721	1.690441	10	8.309559068
802.11a	5280	-1.4	0.72443596	3.5	2.238721	1.62181	10	8.378189903
802.11a	5320	-1.31	0.739605275	3.5	2.238721	1.65577	10	8.344230037
802.11n	5260	-1.76	0.666806769	3.5	2.238721	1.492794	10	8.50720559
802.11n	5280	-1.61	0.690239804	3.5	2.238721	1.545254	10	8.45474556
802.11n	5320	-2.66	0.54200089	3.5	2.238721	1.213389	10	8.78661115
802.11n(40)	5270	-2.29	0.59020108	3.5	2.238721	1.321296	5	3.678704366
802.11n(40)	5310	-2.39	0.576766463	3.5	2.238721	1.291219	5	3.708780726
802.11ac	5290	-7.23	0.189234362	3.5	2.238721	0.423643	2.5	2.076357034
802.11ax	5290	-7.72	0.169044093	3.5	2.238721	0.378443	2.5	2.121557415

Mode	Freq (MHz)	MIMO MODE	MIMO Conducted Pwr (mW/MHz)	Gain (dBi)	Gain (numeric)	EIRP (mW/MHz)	EIRP Limit (mW/MHz)	Margin
802.11a								
802.11a								
802.11a								
802.11n	5260	Chain 1+Chain 2	1.338235622	3.5	2.238721	2.995936	10	7.004063624
802.11n	5280	Chain 1+Chain 2	1.371009163	3.5	2.238721	3.069307	10	6.930692807
802.11n	5320	Chain 1+Chain 2	1.261449868	3.5	2.238721	2.824034	10	7.175965514
802.11n(40)	5270	Chain 1+Chain 2	1.232888797	3.5	2.238721	2.760094	5	2.239905788
802.11n(40)	5310	Chain 1+Chain 2	1.191943336	3.5	2.238721	2.668429	5	2.331571257
802.11ac	5290	Chain 1+Chain 2	0.358278455	3.5	2.238721	0.802086	2.5	1.697914449
802.11ax	5290	Chain 1+Chain 2	0.339652332	3.5	2.238721	0.760387	2.5	1.739613144

Table 20. Error of Antenna Power Output, EIRP Test Results (Band W53)

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Mode	Freq (MHz)	Chain 1 Conducted Pwr (dBm)	Chain 1 Conducted Pwr (mW/MHz)	Antenna Power Limit (mW/MHz)	Margin	Rated Power (mW/MHz)	Power Deviation (%)
802.11a	5500	-1.1	0.776247117	10	9.223752883	1	-22.37528834
802.11a	5600	-1.59	0.693425806	10	9.306574194	1	-30.6574194
802.11a	5720	-2.23	0.598411595	10	9.401588405	1	-40.15884049
802.11n	5500	-1.53	0.70307232	10	9.29692768	1	-29.69276801
802.11n	5600	-2.45	0.568852931	10	9.431147069	1	-43.11470692
802.11n	5720	-1.79	0.662216504	10	9.337783496	1	-33.77834963
802.11n(40)	5510	-4.1	0.389045145	5	4.610954855	0.5	-22.190971
802.11n(40)	5590	-4.65	0.342767787	5	4.657232213	0.5	-31.44644269
802.11n(40)	5710	-4.21	0.379314985	5	4.620685015	0.5	-24.13700301
802.11ac	5530	-7.29	0.186637969	2.5	2.313362031	0.25	-25.34481237
802.11ac	5610	-7.16	0.192309173	2.5	2.307690827	0.25	-23.07633084
802.11ac	5690	-8.09	0.155238701	2.5	2.344761299	0.25	-37.9045196
802.11ax	5530	-7.34	0.184501542	2.5	2.315498458	0.25	-26.19938323
802.11ax	5610	-8.16	0.152756606	2.5	2.347243394	0.25	-38.89735767
802.11ax	5690	-8.24	0.149968484	2.5	2.350031516	0.25	-40.01260658

Mode	Freq (MHz)	Chain 2 Conducted Pwr (dBm)	Chain 2 Conducted Pwr (mW/MHz)	Antenna Power Limit (mW/MHz)	Margin	Rated Power (mW/MHz)	Power Deviation (%)
802.11a	5500	-1.05	0.785235635	10	9.214764365	1	-21.47643654
802.11a	5600	-1.63	0.68706844	10	9.31293156	1	-31.293156
802.11a	5720	-2.15	0.609536897	10	9.390463103	1	-39.04631028
802.11n	5500	-2.22	0.599791076	10	9.400208924	1	-40.02089237
802.11n	5600	-2.36	0.580764418	10	9.419235582	1	-41.92355825
802.11n	5720	-2.59	0.550807696	10	9.449192304	1	-44.91923036
802.11n(40)	5510	-4.74	0.335737614	5	4.664262386	0.5	-32.85247715
802.11n(40)	5590	-4.62	0.345143739	5	4.654856261	0.5	-30.97125213
802.11n(40)	5710	-4.99	0.316956746	5	4.683043254	0.5	-36.60865074
802.11ac	5530	-8.31	0.147570653	2.5	2.352429347	0.25	-40.97173867
802.11ac	5610	-8.79	0.132129563	2.5	2.367870437	0.25	-47.14817463
802.11ac	5690	-8.8	0.131825674	2.5	2.368174326	0.25	-47.26973046
802.11ax	5530	-7.79	0.166341265	2.5	2.333658735	0.25	-33.46349399
802.11ax	5610	-7.63	0.172583789	2.5	2.327416211	0.25	-30.96648432
802.11ax	5690	-8.61	0.137720947	2.5	2.362279053	0.25	-44.91162124

Mode	Freq (MHz)	MIMO Mode	MIMO Conducted Pwr (mW/MHz)	Antenna Power Limit (mW/MHz)	Margin	Rated Power (mW/MHz)	Power Deviation (%)
802.11a							
802.11a							
802.11a							
802.11n	5500	Chain 1+Chain 2	1.302863396	10	8.697136604	1	30.28633961
802.11n	5600	Chain 1+Chain 2	1.149617348	10	8.850382652	1	14.96173484
802.11n	5720	Chain 1+Chain 2	1.2130242	10	8.7869758	1	21.30242001
802.11n(40)	5510	Chain 1+Chain 2	0.724782759	5	4.275217241	0.5	44.95655185
802.11n(40)	5590	Chain 1+Chain 2	0.687911526	5	4.312088474	0.5	37.58230518
802.11n(40)	5710	Chain 1+Chain 2	0.696271731	5	4.303728269	0.5	39.25434626
802.11ac	5530	Chain 1+Chain 2	0.334208622	2.5	2.165791378	0.25	33.68344896
802.11ac	5610	Chain 1+Chain 2	0.324438736	2.5	2.175561264	0.25	29.77549452
802.11ac	5690	Chain 1+Chain 2	0.287064375	2.5	2.212935625	0.25	14.82574994
802.11ax	5530	Chain 1+Chain 2	0.350842807	2.5	2.149157193	0.25	40.33712278
802.11ax	5610	Chain 1+Chain 2	0.325340395	2.5	2.174659605	0.25	30.13615801
802.11ax	5690	Chain 1+Chain 2	0.28768943	2.5	2.21231057	0.25	15.07577218

Table 21. Error of Antenna Power Output, Conducted Test Results (Band W56)

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Mode	Freq (MHz)	Chain 1 Conducted Pwr (dBm)	Chain 1 Conducted Pwr (mW/MHz)	Gain (dBi)	Gain (numeric)	EIRP (mW/MHz)	EIRP Limit (mW/MHz)	Margin
802.11a	5500	-1.1	0.776247117	3.5	2.238721	1.737801	50	48.2622
802.11a	5600	-1.59	0.693425806	3.5	2.238721	1.552387	50	48.44761
802.11a	5720	-2.23	0.598411595	3.5	2.238721	1.339677	50	48.66032
802.11n	5500	-1.53	0.70307232	3.5	2.238721	1.573983	50	48.42602
802.11n	5600	-2.45	0.568852931	3.5	2.238721	1.273503	50	48.7265
802.11n	5720	-1.79	0.662216504	3.5	2.238721	1.482518	50	48.51748
802.11n(40)	5510	-4.1	0.389045145	3.5	2.238721	0.870964	25	24.12904
802.11n(40)	5590	-4.65	0.342767787	3.5	2.238721	0.767361	25	24.23264
802.11n(40)	5710	-4.21	0.379314985	3.5	2.238721	0.84918	25	24.15082
802.11ac	5530	-7.29	0.186637969	3.5	2.238721	0.41783	12.5	12.08217
802.11ac	5610	-7.16	0.192309173	3.5	2.238721	0.430527	12.5	12.06947
802.11ac	5690	-8.09	0.155238701	3.5	2.238721	0.347536	12.5	12.15246
802.11ax	5530	-7.34	0.184501542	3.5	2.238721	0.413048	12.5	12.08695
802.11ax	5610	-8.16	0.152756606	3.5	2.238721	0.341979	12.5	12.15802
802.11ax	5690	-8.24	0.149968484	3.5	2.238721	0.335738	12.5	12.16426

Mode	Freq (MHz)	Chain 2 Conducted Pwr (dBm)	Chain 2 Conducted Pwr (mW/MHz)	Gain (dBi)	Gain (numeric)	EIRP (mW/MHz)	EIRP Limit (mW/MHz)	Margin
802.11a	5500	-1.05	0.785235635	3.5	2.238721	1.757924	50	48.24208
802.11a	5600	-1.63	0.68706844	3.5	2.238721	1.538155	50	48.46185
802.11a	5720	-2.15	0.609536897	3.5	2.238721	1.364583	50	48.63542
802.11n	5500	-2.22	0.599791076	3.5	2.238721	1.342765	50	48.65724
802.11n	5600	-2.36	0.580764418	3.5	2.238721	1.30017	50	48.69983
802.11n	5720	-2.59	0.550807696	3.5	2.238721	1.233105	50	48.7669
802.11n(40)	5510	-4.74	0.335737614	3.5	2.238721	0.751623	25	24.24838
802.11n(40)	5590	-4.62	0.345143739	3.5	2.238721	0.772681	25	24.22732
802.11n(40)	5710	-4.99	0.316956746	3.5	2.238721	0.709578	25	24.29042
802.11ac	5530	-8.31	0.147570653	3.5	2.238721	0.33037	12.5	12.16963
802.11ac	5610	-8.79	0.132129563	3.5	2.238721	0.295801	12.5	12.2042
802.11ac	5690	-8.8	0.131825674	3.5	2.238721	0.295121	12.5	12.20488
802.11ax	5530	-7.79	0.166341265	3.5	2.238721	0.372392	12.5	12.12761
802.11ax	5610	-7.63	0.172583789	3.5	2.238721	0.386367	12.5	12.11363
802.11ax	5690	-8.61	0.137720947	3.5	2.238721	0.308319	12.5	12.19168

Mode	Freq (MHz)	MIMO MODE	MIMO Conducted Pwr (mW/MHz)	Gain (dBi)	Gain (numeric)	EIRP (mW/MHz)	EIRP Limit (mW/MHz)	Margin
802.11a								
802.11a								
802.11a								
802.11n	5500	Chain 1+Chain 2	1.302863396	3.5	2.238721	2.916748	50	47.08325
802.11n	5600	Chain 1+Chain 2	1.149617348	3.5	2.238721	2.573673	50	47.42633
802.11n	5720	Chain 1+Chain 2	1.2130242	3.5	2.238721	2.715623	50	47.28438
802.11n(40)	5510	Chain 1+Chain 2	0.724782759	3.5	2.238721	1.622586	25	23.37741
802.11n(40)	5590	Chain 1+Chain 2	0.687911526	3.5	2.238721	1.540042	25	23.45996
802.11n(40)	5710	Chain 1+Chain 2	0.696271731	3.5	2.238721	1.558758	25	23.44124
802.11ac	5530	Chain 1+Chain 2	0.334208622	3.5	2.238721	0.7482	12.5	11.7518
802.11ac	5610	Chain 1+Chain 2	0.324438736	3.5	2.238721	0.726328	12.5	11.77367
802.11ac	5690	Chain 1+Chain 2	0.287064375	3.5	2.238721	0.642657	12.5	11.85734
802.11ax	5530	Chain 1+Chain 2	0.350842807	3.5	2.238721	0.785439	12.5	11.71456
802.11ax	5610	Chain 1+Chain 2	0.325340395	3.5	2.238721	0.728346	12.5	11.77165
802.11ax	5690	Chain 1+Chain 2	0.28768943	3.5	2.238721	0.644056	12.5	11.85594

Table 22. Error of Antenna Power Output, EIRP Test Results (Band W56)

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Electromagnetic Compatibility Criteria for Intentional Radiators

Adjacent Channel Power

Test Condition

(1) Conditions of measuring equipment

The spectrum analyzer for leakage power and leakage power outside of band shall be set as follows.

- Center frequency as follows the measurement method
- Sweep frequency span as follows (Note 1)
- RBW 300kHz
- VBW 300kHz
- Scale of Y axis 10dB/Div
- Input level as maximum dynamic range
- Quantity of data more than 400 points
- Sweep mode Continuous mode
- Detecting mode sample (positive peak in case of burst signal)
- Times of amplitude averaging as spectrum variation disappeared

(2) Condition of tested equipment

1.1 Set to tested frequency, modulate it with the standard coding test signal.
1.2 Continuous transmission or durable (constant period and constant burst time) burst transmission state.
1.3 In case of burst, modulate as ratio of time is smallest where the numbers of sub-carriers are few.
1.4 When it has multiple antenna connecters and the function of controlling antenna power, it shall be set the power control to the maximum power per antenna connecter.

(3) Test method

I Adjacent channel leakage power test

2.1 The spectrum analyzer shall be set as 2(1).
2.2 Measurement of carrier power (Pc)
2.2.1 Sweep with carrier frequency in center.
2.2.2 Store all data point in array variables of the computer.
2.2.3 Convert dB values of all data into true value in watt.
2.2.4 Find sum total of all data, designate it as Pc.
2.3 Measurement of upper adjacent channel leakage power (Pu)
2.3.1 Sweep ＋20 MHz or ＋40 MHz depending on BW in center frequency.
2.3.2 Store all data point in array variable of the computer.
2.3.3 Convert dB values of all data into true value in watt.
2.3.4 Find sum total of all data, designate it as Pu.
2.3.5 Sweep ＋40 MHz or ＋80 MHz depending on BW in center frequency and then repeat (2) to (5).
2.4 Measurement of below adjacent channel leakage power (PL)
2.4.1 Sweep －20 MHz or －40 MHz depending on BW in center frequency.
2.4.2 Store all data point in array variable of the computer.
2.4.3 Convert dB values of all data into true value in watt.
2.4.4 Find sum total of all data, designate it as PL.
2.4.5 Sweep －40 MHz or －80 MHz depending on BW in center frequency and then repeat (2) to (5).

When it has multiple antenna connecters, measure each antenna connecter and make it connect with coupler.

LIMIT:

Bandwidth System	Limits
20MHz System	≥25dB (fc±20MHz)
	≥40dB (fc±40MHz)
40MHz System	≥25dB (fc±40MHz)
	≥40dB (fc±80MHz)
80MHz System	≥25dB (fc±80MHz)

Test Engineer(s): Bryan Taylor

Test Date(s): 5/4/2022

Test Results: The EUT was compliant with the requirements of this section.

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Band W52 Adjacent Power Leakage	Offset (MHz)	Port 1 (dBc)		Port 2 (dBc)		Combined (dBc)		Limit (dBc)
		Lower	Upper	Lower	Upper	Lower	Upper	
5180MHz_Low Ch_36_20MHz BW_a-mode	20	-38.69	-39.62	-41.25	-41.77	-36.78	-37.55	-25.00
5180MHz_Low Ch_36_20MHz BW_a-mode	40	-54.09	-53.98	-63.34	-63.45	-53.61	-53.51	-40.00
5200MHz_low_mid Ch_40_20MHz BW_a-mode	20	-39.13	-39.79	-41.02	-41.67	-36.96	-37.62	-25.00
5200MHz_low_mid Ch_40_20MHz BW_a-mode	40	-63.54	-63.93	-63.26	-63.62	-60.39	-60.76	-40.00
5240MHz_high_mid Ch_48_20MHz BW_a-mode	20	-38.49	-39.37	-40.70	-41.34	-36.45	-37.23	-25.00
5240MHz_high_mid Ch_48_20MHz BW_a-mode	40	-63.72	-63.89	-62.91	-63.30	-60.29	-60.58	-40.00
5180MHz_Low Ch_36_20MHz BW_n-mode	20	-37.88	-38.49	-39.37	-39.88	-35.55	-36.12	-25.00
5180MHz_Low Ch_36_20MHz BW_n-mode	40	-63.23	-63.78	-63.05	-63.35	-60.13	-60.55	-40.00
5200MHz_low_mid Ch_40_20MHz BW_n-mode	20	-38.19	-38.35	-39.52	-40.10	-35.79	-36.12	-25.00
5200MHz_low_mid Ch_40_20MHz BW_n-mode	40	-63.42	-64.01	-63.12	-63.59	-60.26	-60.79	-40.00
5240MHz_high_mid Ch_48_20MHz BW_n-mode	20	-37.34	-38.32	-38.92	-40.07	-35.05	-36.10	-25.00
5240MHz_high_mid Ch_48_20MHz BW_n-mode	40	-63.50	-63.69	-63.55	-64.09	-60.52	-60.88	-40.00
5190MHz_Low Ch_38_40MHz BW_n-mode	40	-40.53	-40.93	-43.63	-44.07	-38.80	-39.21	-25.00
5190MHz_Low Ch_38_40MHz BW_n-mode	80	-57.59	-58.16	-60.39	-61.17	-55.76	-56.40	-40.00
5230MHz_high_mid Ch_46_40MHz BW_n-mode	40	-40.01	-40.81	-43.69	-44.02	-38.46	-39.12	-25.00
5230MHz_high_mid Ch_46_40MHz BW_n-mode	80	-60.69	-61.14	-57.59	-57.85	-55.86	-56.18	-40.00
5210MHz_Low mid Ch_42_80MHz BW_ac-mode	80	-40.91	-40.71	-43.26	-43.15	-38.92	-38.75	-25.00
5210MHz_Low mid Ch_42_80MHz BW_ax-mode	80	-40.97	-40.87	-44.96	-44.20	-39.51	-39.22	-25.00

Table 23. Adjacent Power Leakage (Band W52)

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Band W53 Adjacent Power Leakage	Offset (MHz)	Port 1 (dBc)		Port 2 (dBc)		Combined (dBc)		Limit (dBc)
		Lower	Upper	Lower	Upper	Lower	Upper	
5260MHz_low_mid Ch_52_20MHz BW_a-mode	20	-38.38	-38.98	-40.12	-41.39	-36.16	-37.01	-25.00
5260MHz_low_mid Ch_52_20MHz BW_a-mode	40	-63.15	-63.37	-60.93	-61.02	-58.89	-59.03	-40.00
5280MHz_high_mid Ch_56_20MHz BW_a-mode	20	-38.40	-39.08	-40.32	-41.40	-36.24	-37.07	-25.00
5280MHz_high_mid Ch_56_20MHz BW_a-mode	40	-60.61	-60.28	-62.97	-63.27	-58.62	-58.51	-40.00
5320MHz_High Ch_64_20MHz BW_a-mode	20	-39.15	-39.47	-39.93	-41.21	-36.51	-37.24	-25.00
5320MHz_High Ch_64_20MHz BW_a-mode	40	-62.91	-62.18	-64.15	-64.13	-60.47	-60.03	-40.00
5260MHz_low_mid Ch_52_20MHz BW_n-mode	20	-38.08	-38.99	-38.57	-40.05	-35.31	-36.48	-25.00
5260MHz_low_mid Ch_52_20MHz BW_n-mode	40	-63.13	-63.01	-63.52	-63.67	-60.31	-60.32	-40.00
5280MHz_high_mid Ch_56_20MHz BW_n-mode	20	-38.31	-39.23	-39.05	-39.21	-35.65	-36.21	-25.00
5280MHz_high_mid Ch_56_20MHz BW_n-mode	40	-62.49	-62.01	-63.76	-64.12	-60.07	-59.93	-40.00
5320MHz_High Ch_64_20MHz BW_n-mode	20	-38.06	-38.26	-38.99	-39.40	-35.49	-35.78	-25.00
5320MHz_High Ch_64_20MHz BW_n-mode	40	-63.25	-62.44	-64.06	-64.40	-60.63	-60.30	-40.00
5270MHz_low_mid Ch_54_40MHz BW_n-mode	40	-40.18	-39.90	-43.74	-43.15	-38.60	-38.22	-25.00
5270MHz_low_mid Ch_54_40MHz BW_n-mode	80	-58.03	-57.65	-60.25	-60.69	-55.99	-55.90	-40.00
5310MHz_High Ch_62_40MHz BW_n-mode	40	-41.56	-40.29	-43.64	-43.19	-39.47	-38.49	-25.00
5310MHz_High Ch_62_40MHz BW_n-mode	80	-60.33	-59.46	-61.37	-62.28	-57.81	-57.64	-40.00
5290MHz_High Ch_58_80MHz BW_ac-mode	80	-40.55	-38.92	-43.10	-42.46	-38.63	-37.33	-25.00
5290MHz_High Ch_58_80MHz BW_ax-mode	80	-40.25	-38.90	-44.16	-43.60	-38.76	-37.63	-25.00

Table 24. Adjacent Power Leakage (Band W53)

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Band W56 Adjacent Power Leakage	Offset (MHz)	Port 1 (dBc)		Port 2 (dBc)		Combined (dBc)		Limit (dBc)
		Lower	Upper	Lower	Upper	Lower	Upper	
5500MHz_Low Ch_100_20MHz BW_a-mode	20	-41.38	-41.53	-40.02	-40.87	-37.64	-38.18	-25.00
5500MHz_Low Ch_100_20MHz BW_a-mode	40	-62.74	-62.58	-64.37	-64.33	-60.47	-60.36	-40.00
5600MHz_Mid Ch_120_20MHz BW_a-mode	20	-40.87	-41.67	-38.89	-40.01	-36.76	-37.75	-25.00
5600MHz_Mid Ch_120_20MHz BW_a-mode	40	-63.61	-64.37	-63.07	-64.24	-60.32	-61.29	-40.00
5720MHz_High Ch_144_20MHz BW_a-mode	20	-37.53	-38.27	-36.56	-37.63	-34.01	-34.93	-25.00
5720MHz_High Ch_144_20MHz BW_a-mode	40	-61.74	-60.00	-59.85	-59.49	-57.68	-56.73	-40.00
5500MHz_High Ch_100_20MHz BW_n-mode	20	-39.56	-39.88	-38.68	-39.45	-36.08	-36.65	-25.00
5500MHz_High Ch_100_20MHz BW_n-mode	40	-63.43	-63.49	-63.97	-64.06	-60.68	-60.75	-40.00
5600MHz_High Ch_120_20MHz BW_n-mode	20	-38.42	-40.02	-37.52	-39.46	-34.94	-36.72	-25.00
5600MHz_High Ch_120_20MHz BW_n-mode	40	-60.19	-60.81	-62.81	-63.70	-58.29	-59.01	-40.00
5720MHz_Low Ch_144_20MHz BW_n-mode	20	-37.06	-38.96	-37.23	-37.49	-34.14	-35.16	-25.00
5720MHz_Low Ch_144_20MHz BW_n-mode	40	-61.42	-60.08	-60.91	-60.57	-58.14	-57.31	-40.00
5500MHz_Low Ch_100_20MHz BW_ac-mode	20	-39.23	-40.07	-38.63	-39.82	-35.91	-36.93	-25.00
5500MHz_Low Ch_100_20MHz BW_ac-mode	40	-63.65	-63.45	-63.98	-64.25	-60.80	-60.82	-40.00
5600MHz_Mid Ch_120_20MHz BW_ac-mode	20	-38.54	-39.87	-37.33	-38.90	-34.89	-36.35	-25.00
5600MHz_Mid Ch_120_20MHz BW_ac-mode	40	-63.37	-64.17	-62.96	-63.84	-60.15	-60.99	-40.00
5720MHz_High Ch_144_20MHz BW_ac-mode	20	-36.56	-38.15	-36.60	-37.46	-33.57	-34.78	-25.00
5720MHz_High Ch_144_20MHz BW_ac-mode	40	-61.59	-59.99	-60.89	-60.70	-58.22	-57.32	-40.00
5510MHz_High Ch_102_40MHz BW_n-mode	40	-44.24	-43.48	-42.42	-42.87	-40.23	-40.15	-25.00
5510MHz_High Ch_102_40MHz BW_n-mode	80	-60.27	-60.42	-61.96	-62.28	-58.02	-58.24	-40.00
5590MHz_High Ch_118_40MHz BW_n-mode	40	-43.78	-44.64	-41.76	-42.56	-39.64	-40.47	-25.00
5590MHz_High Ch_118_40MHz BW_n-mode	80	-60.22	-61.46	-59.53	-61.15	-56.85	-58.29	-40.00
5710MHz_Low Ch_142_40MHz BW_n-mode	40	-39.15	-40.10	-41.76	-37.95	-37.25	-35.88	-25.00
5710MHz_Low Ch_142_40MHz BW_n-mode	80	-58.77	-61.05	-58.14	-59.03	-55.43	-56.91	-40.00
5510MHz_Mid Ch_102_40MHz BW_ac-mode	40	-43.37	-43.84	-38.71	-42.69	-37.44	-40.22	-25.00
5510MHz_Mid Ch_102_40MHz BW_ac-mode	80	-60.20	-60.39	-61.99	-62.19	-57.99	-58.19	-40.00
5590MHz_High Ch_118_40MHz BW_ac-mode	40	-43.85	-44.42	-42.80	-41.87	-40.28	-39.95	-25.00
5590MHz_High Ch_118_40MHz BW_ac-mode	80	-61.00	-62.47	-60.40	-62.39	-57.68	-59.42	-40.00
5710MHz_High Ch_142_40MHz BW_ac-mode	40	-39.98	-40.28	-38.18	-38.23	-35.98	-36.13	-25.00
5710MHz_High Ch_142_40MHz BW_ac-mode	80	-58.43	-60.69	-58.61	-58.77	-55.51	-56.61	-40.00
5530MHz_Low Ch_106_80MHz BW_ac-mode	80	-42.44	-43.08	-42.41	-42.34	-39.41	-39.68	-40.00
5610MHz_Mid Ch_122_80MHz BW_ac-mode	80	-43.04	-43.48	-40.07	-41.95	-38.30	-39.64	-40.00
5690MHz_High Ch_138_80MHz BW_ac-mode	80	-39.53	-40.89	-36.90	-37.16	-35.01	-35.63	-40.00
5530MHz_Low Ch_106_80MHz BW_ac-mode	80	-43.65	-43.86	-42.54	-43.40	-43.40	-40.05	-40.00
5610MHz_Mid Ch_122_80MHz BW_ac-mode	80	-43.59	-44.50	-40.65	-42.51	-42.51	-38.86	-40.00
5690MHz_High Ch_138_80MHz BW_ac-mode	80	-39.44	-41.02	-36.55	-37.02	-37.02	-34.75	-40.00

Table 25. Adjacent Power Leakage (Band W56)

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Electromagnetic Compatibility Criteria for Intentional Radiators

Secondary Emissions (Spurious Emission of Receiver)

Test Condition:

(1) The attenuation value of the attenuator shall be low as possible due to very low level measurement.
(2) Searching spurious emissions, the spectrum analyzer shall setup as following;
. Frequency range: Detecting spurious emissions shall be from 30 MHz to 26GHz.
. RBW: 100kHz (up to 1GHz), 1MHz (from 1GHz);
. VBW: Equivalent to RBW;
. Sweep time: Least time keeping measurement accuracy;
. Scale of Y axis: 10dB / Div;
. Quantity of sampling: More than 400 points;
. Sweep mode: Single sweep.
. Detecting mode: Positive peak hold;
(3) Determining the level of the detected spurious emission the following settings of the spectrum analyzer shall be used;
.Center frequency: A frequency of detected spurious emissions;
. Span: 0Hz;
. RBW: 100kHz (up to 1GHz), 1MHz (from 1GHz);
. VBW: Equivalent to RBW;
. Sweep time: Least time keeping measurement accuracy;
. Scale of Y axis: 10dB / Div;
. Quantity of sampling: More than 400 points;
. Sweep mode: Single sweep.
. Detecting mode: Positive peak hold;

Operational Condition of the Equipment Under Test:

EUT shall be in continuous receiving mode.

Test Method:

(1) Spectrum analyzer shall be set up as in Test Condition
(2) and sweep from lower frequency to the frequency which can be measured third or more of the carrier wave. And then detect the maximum bandwidth of the spurious emission. When the level of the detected spurious emission is 10 times as lower as the specified limit, the level shall be recorded as a final result. When the level of the detected spurious emission is 10 times as greater as the specified limit, RBW shall change like 100 MHz, 10 MHz, 1MHz and more narrower until determining the precise frequency. Determine the level of the detected spurious emission using the setting in Test Condition
(3) Average value based on the sampled data shall be a final result. When it has multiple antenna connecters, the respective antenna connecter shall be measured.

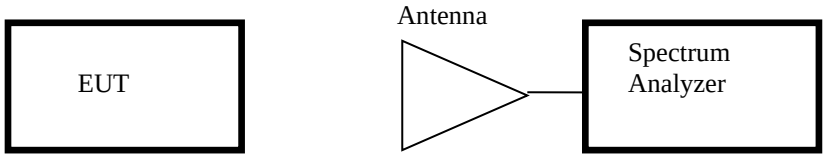


Figure 6. Secondary Emissions (Spurious Emission of Receiver) Test Configuration

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Test Limit: Limit of secondary radiated emissions:

Below 1GHz: 4nW or less
Above 1GHz: 20nW or less

Test Engineer(s): Bryan Taylor

Test Date(s): 5/18/2022

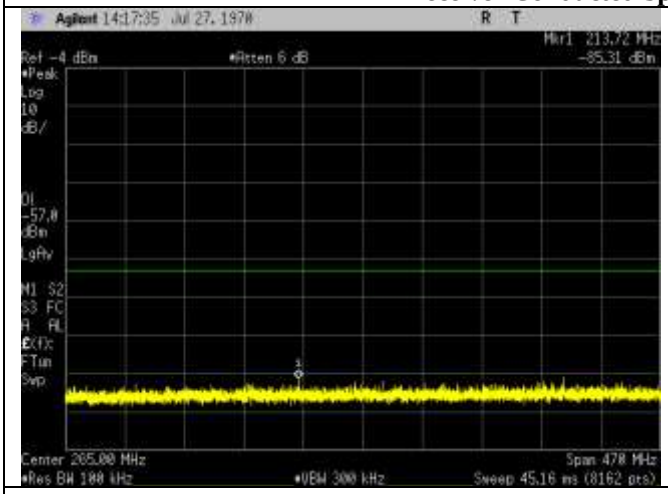
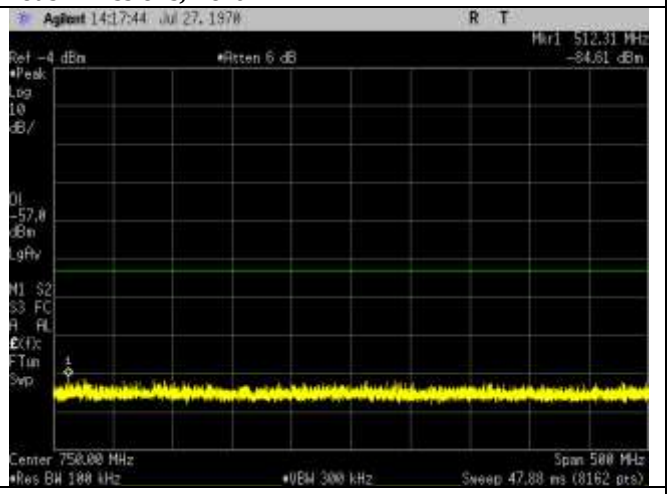
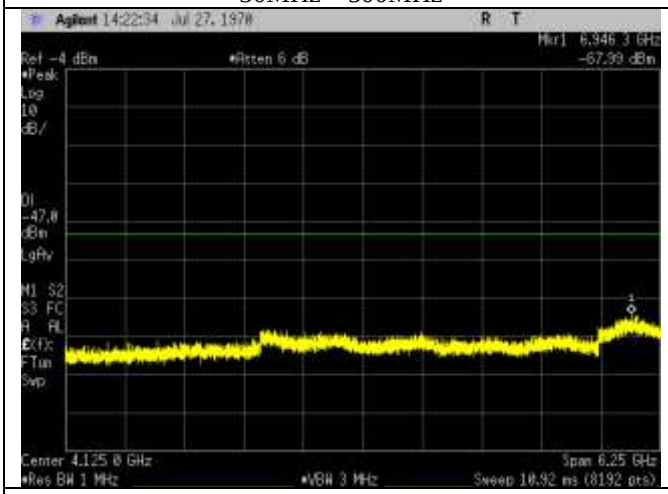
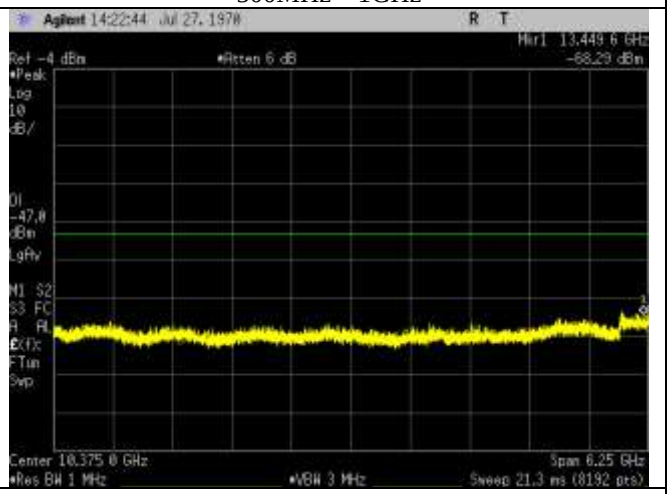
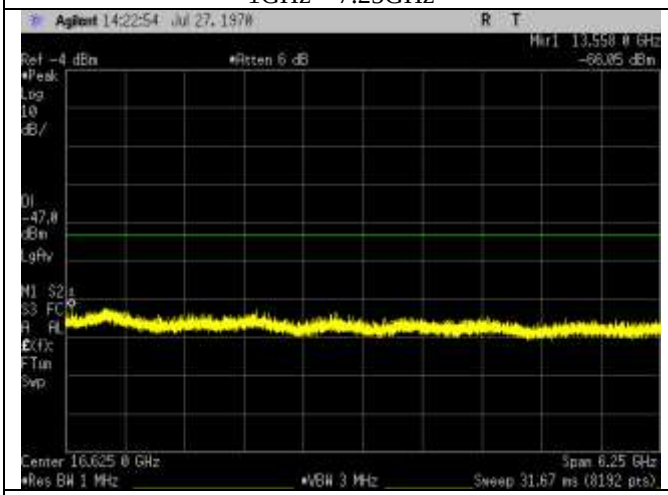
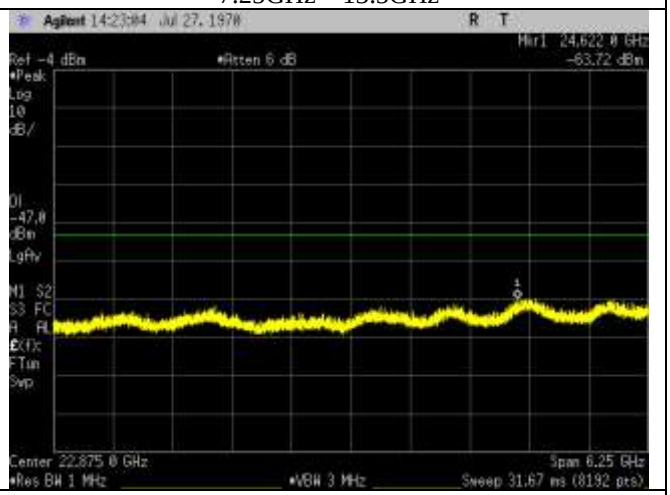
Test Results: The EUT was compliant with the requirements of this section.

Frequency (MHz)	Amplitude (dBm)	Limit (dBm)	Margin (dB)	Result
213.72	-85.31	-54	-31.31	Pass
512.61	-84.61	-54	-30.61	Pass
6946.3	-67.99	-47	-20.99	Pass
13,449.6	-68.29	-47	-21.29	Pass
13,558.0	-66.05	-47	-19.05	Pass
24,622.0	-63.72	-47	-16.72	Pass

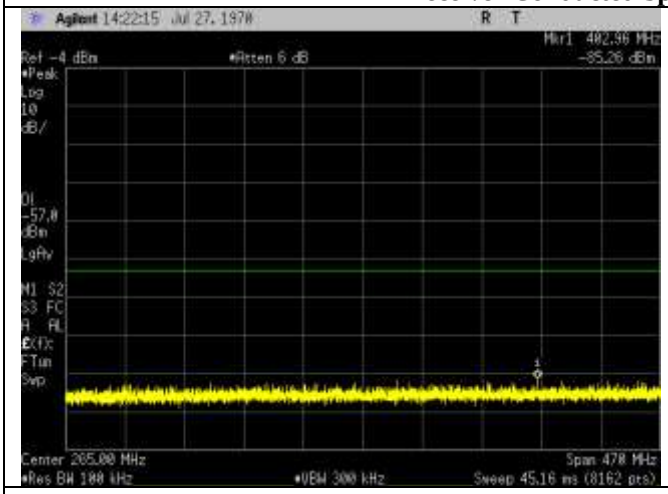
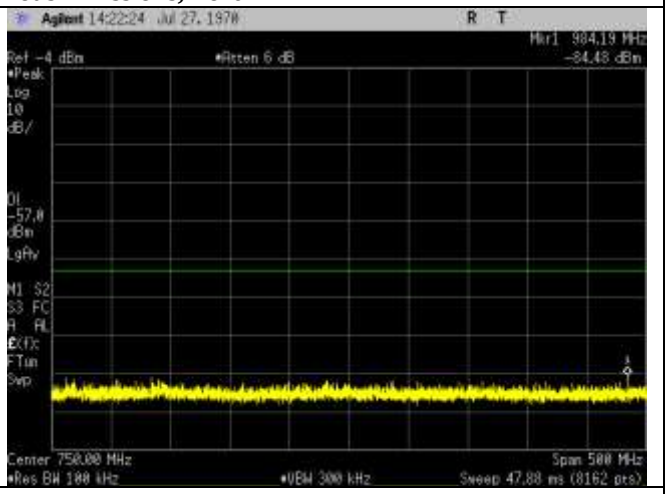
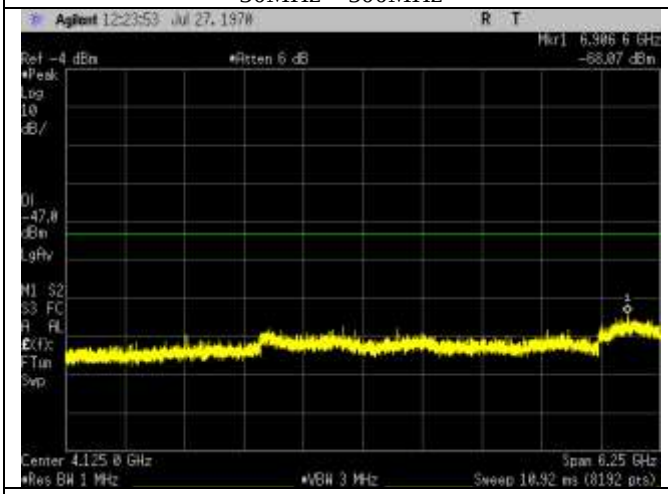
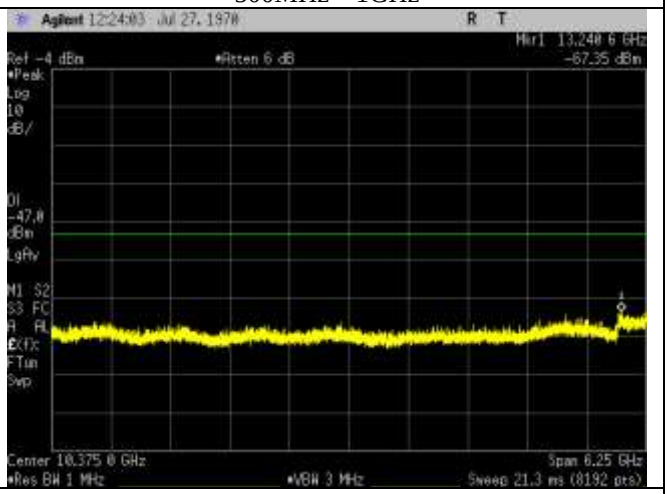
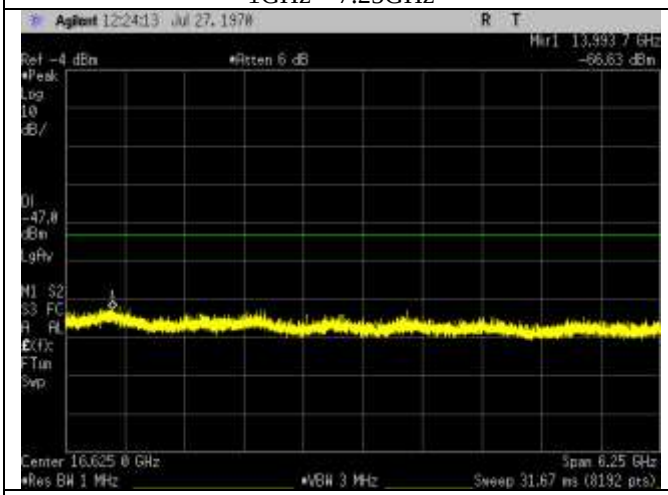
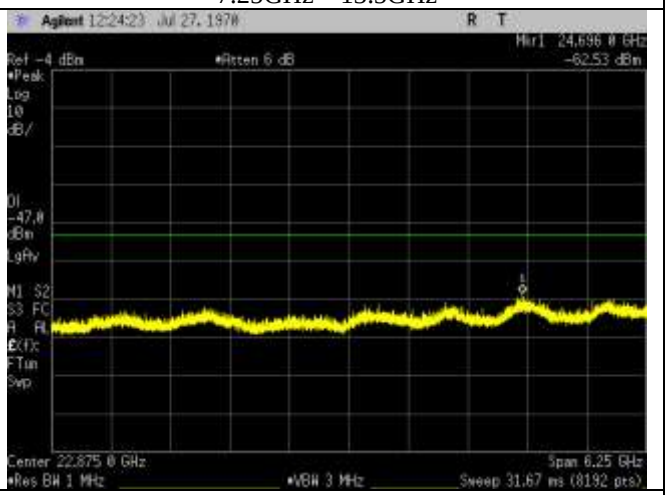
Table 26. Worst Case Conducted Receiver Spurious Emissions, Port 1

Frequency (MHz)	Amplitude (dBm)	Limit (dBm)	Margin (dB)	Result
402.96	-85.26	-54	-31.26	Pass
984.19	-84.48	-54	-30.48	Pass
6906.6	-68.07	-47	-21.07	Pass
13,240.6	-67.35	-47	-20.35	Pass
13,993.7	-66.63	-47	-19.63	Pass
24,696.0	-62.53	-47	-15.53	Pass

Table 27. Worst Case Conducted Receiver Spurious Emissions, Port 2

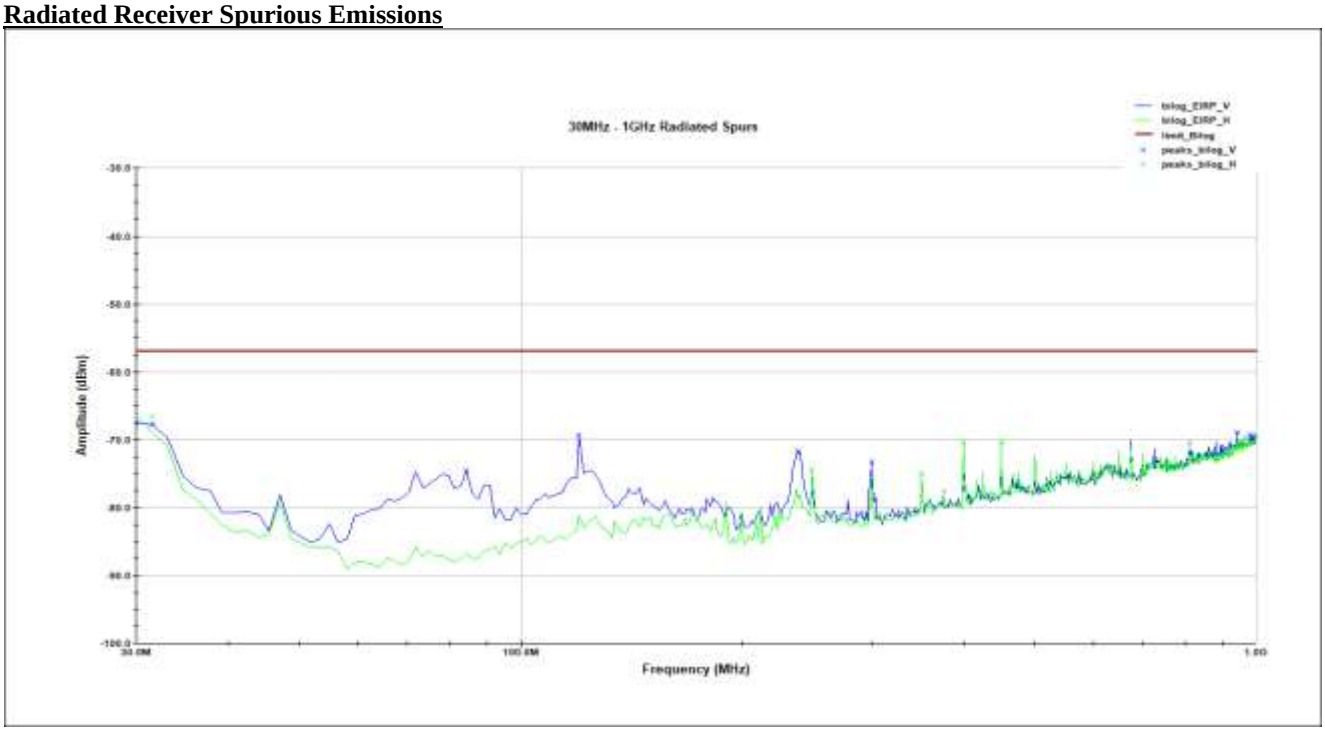
Receiver Conducted Spurious Emissions, Port 1	
	
30MHz – 500MHz	500MHz – 1GHz
	
1GHz – 7.25GHz	7.25GHz – 13.5GHz
	
13.5GHz – 19.75GHz	19.75GHz – 26GHz

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Receiver Conducted Spurious Emissions, Port 2	
	
30MHz – 500MHz	500MHz – 1GHz
	
1GHz – 7.25GHz	7.25GHz – 13.5GHz
	
13.5GHz – 19.75GHz	19.75GHz – 26GHz

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Radiated Receiver Spurious Emissions

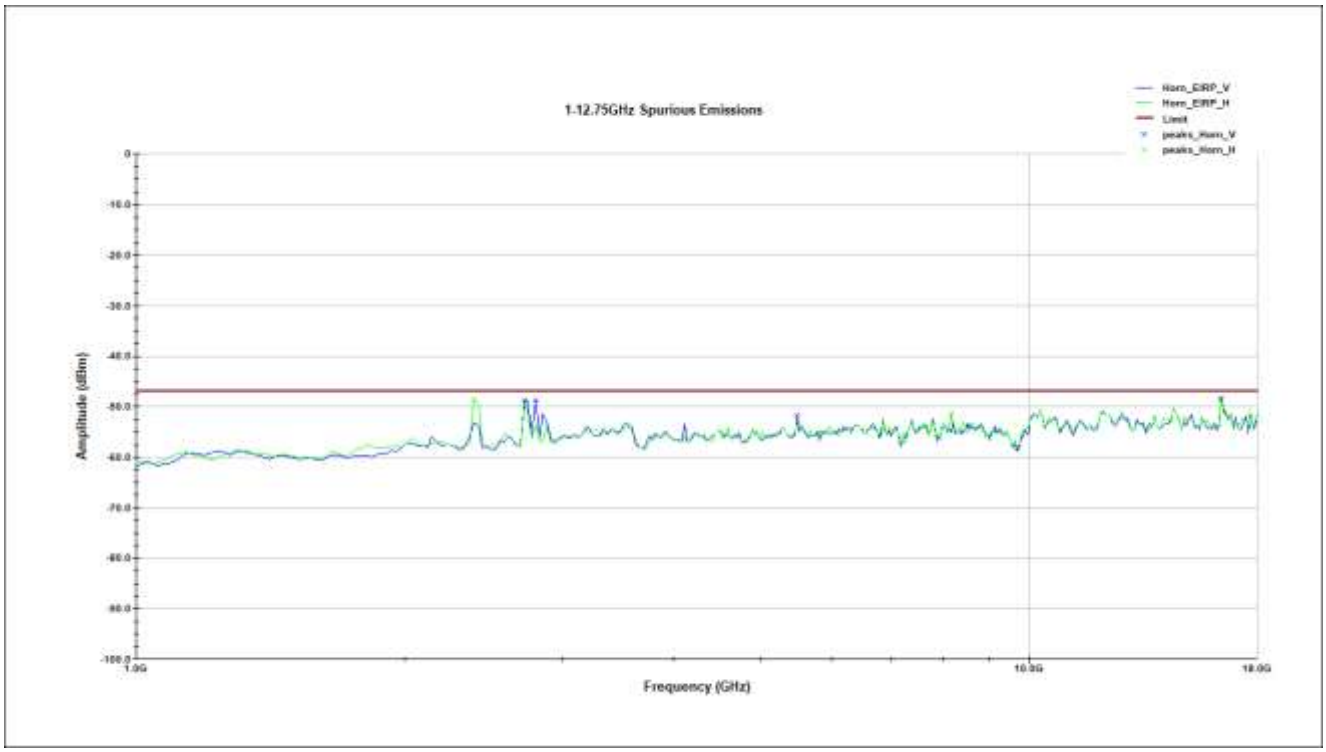


Frequency (MHz)	Polarity (V/H)	Amplitude (dBm)	Limit (dBm)	Margin (dB)	Result
30.0 MHz	H	-66.4	-54	-12.4	Pass
31.6 MHz	H	-66.528	-54	-12.528	Pass
249.0 MHz	H	-74.46	-54	-20.46	Pass
300.0 MHz	H	-75.72	-54	-21.72	Pass
350.0 MHz	H	-74.95	-54	-20.95	Pass
400.0 MHz	H	-70.31	-54	-16.31	Pass
450.0 MHz	H	-70.34	-54	-16.34	Pass
967.0 MHz	H	-69.588	-54	-15.588	Pass
997.0 MHz	H	-69.544	-54	-15.544	Pass
1.0 GHz	H	-69.54	-54	-15.54	Pass
30.0 MHz	V	-67.46	-54	-13.46	Pass
31.6 MHz	V	-67.668	-54	-13.668	Pass
84.4 MHz	V	-74.54	-54	-20.54	Pass
120.0 MHz	V	-69.31	-54	-15.31	Pass
238.0 MHz	V	-71.67	-54	-17.67	Pass
300.0 MHz	V	-73.27	-54	-19.27	Pass
942.0 MHz	V	-68.88	-54	-14.88	Pass
980.0 MHz	V	-69.24	-54	-15.24	Pass
1.0 GHz	V	-69.29	-54	-15.29	Pass

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Plot 1. Secondary Emissions (30 MHz – 1000 GHz)

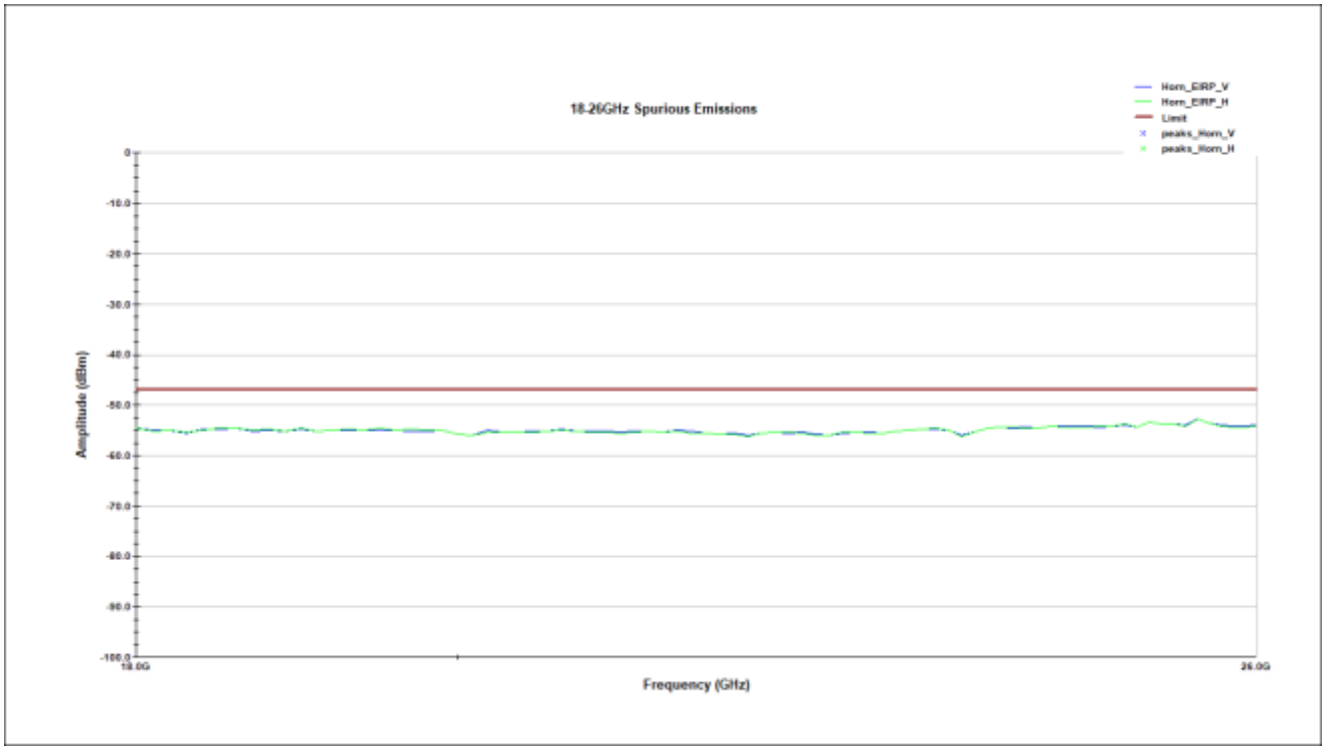
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Frequency (MHz)	Polarity (V/H)	Amplitude (dBm)	Limit (dBm)	Margin (dB)	Result
2.39 GHz	H	-48.51	-47	-1.51	Pass
2.72 GHz	H	-49.61	-47	-2.61	Pass
8.17 GHz	H	-51.27	-47	-4.27	Pass
2.72 GHz	V	-48.72	-47	-1.72	Pass
16.4GHz	V	-48.51	-47	-1.51	Pass
2.8 GHz	V	-48.72	-47	-1.72	Pass
5.5 GHz	V	-51.7	-47	-4.7	Pass

Plot 2. Secondary Emissions (1 – 18 GHz)

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Plot 3. Secondary Emissions (18 – 26 GHz)

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Electromagnetic Compatibility Criteria for Intentional Radiators

Transmission Burst Length

Test Condition

(1) The spectrum analyzer shall be set as follows.

- Center frequency: operational frequency
- Sweep frequency span: 0Hz
- RBW: 10MHz
- VBW: Same as RBW
- Sweep time: least time with measured precision assured
- Scale of Y axis: 10dB/Div
- Detecting mode: positive peak
- Trigger event: going positive
- Condition of tested equipment

Operational Condition of the Equipment Under Test

Switch radio transmission mode from receiving mode at tested frequency; Normal intended use.

Test Method

Setting spectrum analyzer as Test Condition (1), applying going positive to trigger event, setting tested equipment to RF transmission mode. When it has multiple antenna connecters, each antenna connector output is combined. After one of antennas start to radiate, then measurement is continued until all antenna completed radiation.

Test Limit

Item	Limit
Transmission Burst Length	≤8 ms

Test Engineer: Bryan Taylor

Test Date: 5/4/2022

Test Results: The EUT was compliant with the requirements of this section.

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Band	TX Chain	Mode	Frequency (MHz)	TX Burst Length (mSec)	Limit (mSec)
W52	Antenna 1	802.11a	5180	1.8609	8
		802.11n	5180	1.4261	8
		802.11n(40)	5190	1.3101	8
		802.11ac	5210	1.7739	8
		802.11ax	5210	1.8464	8
	Antenna 2	802.11a	5180	1.2667	8
		802.11n	5180	1.3246	8
		802.11n(40)	5190	1.8174	8
		802.11ac	5210	1.7449	8
		802.11ax	5210	1.3101	8
W53	Antenna 1	802.11a	5260	1.7014	8
		802.11n	5260	3.1362	8
		802.11n(40)	5270	2.2899	8
		802.11ac	5290	1.8841	8
		802.11ax	5290	2.0145	8
	Antenna 2	802.11a	5260	2.4551	8
		802.11n	5260	3.1652	8
		802.11n(40)	5270	3.2319	8
		802.11ac	5290	1.7971	8
		802.11ax	5290	1.3623	8
W56	Antenna 1	802.11a	5500	2.4638	8
		802.11n	5500	2.2029	8
		802.11n(40)	5510	2.1159	8
		802.11ac	5530	1.2609	8
		802.11ax	5530	1.7971	8
	Antenna 2	802.11a	5500	2.5507	8
		802.11n	5500	1.7391	8
		802.11n(40)	5510	1.7101	8
		802.11ac	5530	1.2899	8
		802.11ax	5530	1.6667	8

Table 28. Transmit Burst Length

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Electromagnetic Compatibility Criteria for Intentional Radiators

Function of Collision Avoidance

Test Condition

The signal generator shall be set as follows.

Carrier frequency center frequency of receiving frequency band of tested equipment.

Modulation: No modulation (In case of carrier sense function of tested equipment does not work by no modulation carrier at center frequency, shift or modulate the frequency according to need.) Output level equal to a value as electric field strength at antenna input port of tested equipment becomes 100mV/m.

The spectrum analyzer shall be set as follows.
Center frequency center frequency of used frequency band
Sweep frequency span 50 MHz
RBW approximately 1MHz
VBW Same as RBW
Scale of Y axis 10dB/Div
Trigger event free run
Detecting mode positive peak

Operational Condition of the Equipment Under Test

Set to test frequency, tested spread spectrum code and receiving mode. When peripheral test equipment is used, connect to it by line.

Test Method

In case of test with only tested equipment:
Setting standard signal generator as no transmission state, tested equipment as transmission mode check whether RF is generated by using spectrum analyzer. Set tested equipment as receiving mode.
Setting standard signal generator as transmission mode, test equipment remaining transmission mode check whether the RF generation stops by using spectrum analyzer.

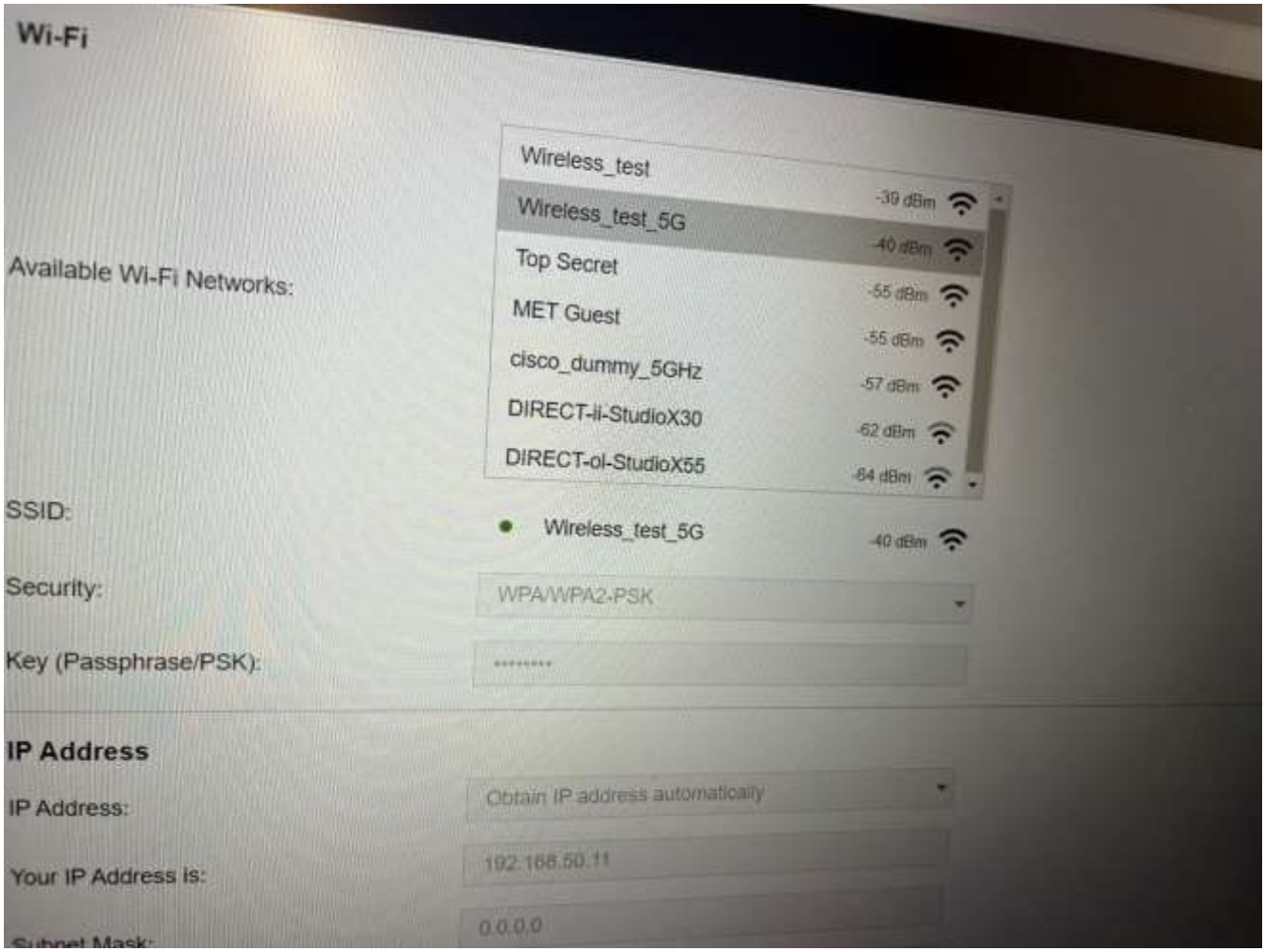
In case of test with peripheral tested equipment:
Set standard signal generator as transmission mode. Connect tested equipment to peripheral test equipment and check whether RF is generated by using spectrum analyzer. Set tested equipment as receiving mode.
Setting standard signal generator as transmission mode, test equipment as transmission mode check whether the RF generation stops by using spectrum analyzer.

Test Engineer: Bryan Taylor

Test Date: 9/1/2022

Test Results: The EUT was compliant with the requirements of this section. The MAC Address was 28-DF-EB-1F-45-7D

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Photograph 1. Function of Collision Avoidance, Connected Device

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Electromagnetic Compatibility Criteria for Intentional Radiators

Transmit Power Control

Test Condition:

The signal generator shall be set as follows.

Carrier frequency center frequency of receiving frequency band of tested equipment.

Modulation: No modulation (In case of carrier sense function of tested equipment does not work by no modulation carrier at center frequency, shift or modulate the frequency according to need.) Output level equal to a value as electric field strength at antenna input port of tested equipment becomes 100mV/m.

The spectrum analyzer shall be set as follows:

- Center frequency: center frequency of used frequency band
- Sweep frequency: span 50 MHz
- RBW: approximately 1MHz
- VBW: Same as RBW
- Scale of Y axis: 10dB/Div
- Trigger event: free run
- Detecting mode: positive peak

Operational Condition of the Equipment Under Test:

Set to test frequency, tested spread spectrum code and receiving mode. When peripheral test equipment is used, connect to it by line.

Test Method:

In case of test with only tested equipment:
Setting standard signal generator as no transmission state, tested equipment as transmission mode check whether RF is generated by using spectrum analyzer. Set tested equipment as receiving mode.
Setting standard signal generator as transmission mode, test equipment remaining transmission mode check whether the RF generation stops by using spectrum analyzer.

In case of test with peripheral tested equipment:
Set standard signal generator as transmission mode. Connect tested equipment to peripheral test equipment and check whether RF is generated by using spectrum analyzer. Set tested equipment as receiving mode.
Setting standard signal generator as transmission mode, test equipment as transmission mode check whether the RF generation stops by using spectrum analyzer.

Test Engineer: Bryan Taylor

Test Date: 9/1/2022

Test Results: The EUT was compliant with this requirement. RF generation difference is greater than 3 dB.

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Electromagnetic Compatibility Criteria for Intentional Radiators

Dynamic Frequency Selection

Test Requirements: (Refer to DFS Response Requirement Values table in section III-A of this report.) The UUT shall continuously monitor for radar transmissions in the operating test channel. When a radar burst occurs in the test channel, it has 10 seconds to move to another channel. This 10 second window is termed Channel Move Time (CMT).

When a radar burst occurs, the UUT has 200 milliseconds, plus an aggregate of 60 milliseconds, to cease transmission in the operating test channel. This 260 ms requirement is termed Channel Closing Transmission Time (CCT).

After radar burst and subsequent move to another channel, the UUT shall not resume transmission, on the channel it moved from, for a period of 30 minutes. This requirement is termed Non-Occupancy Period (NOP).

Test Procedure: These tests define how the following DFS parameters are verified during In-Service Monitoring: Channel Closing Transmission Time, Channel Move Time, and Non-Occupancy Period.

The steps below define the procedure to determine the above mentioned parameters when a radar Burst with a level equal to the DFS Detection Threshold is generated on the Operating Channel of the U-NII device.

A U-NII device operating as a Client Device will associate with the UUT (Master) at a pre-establish frequency. Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test.

At time T0 the Radar Waveform generator sends a Burst of pulses for each of the radar types.

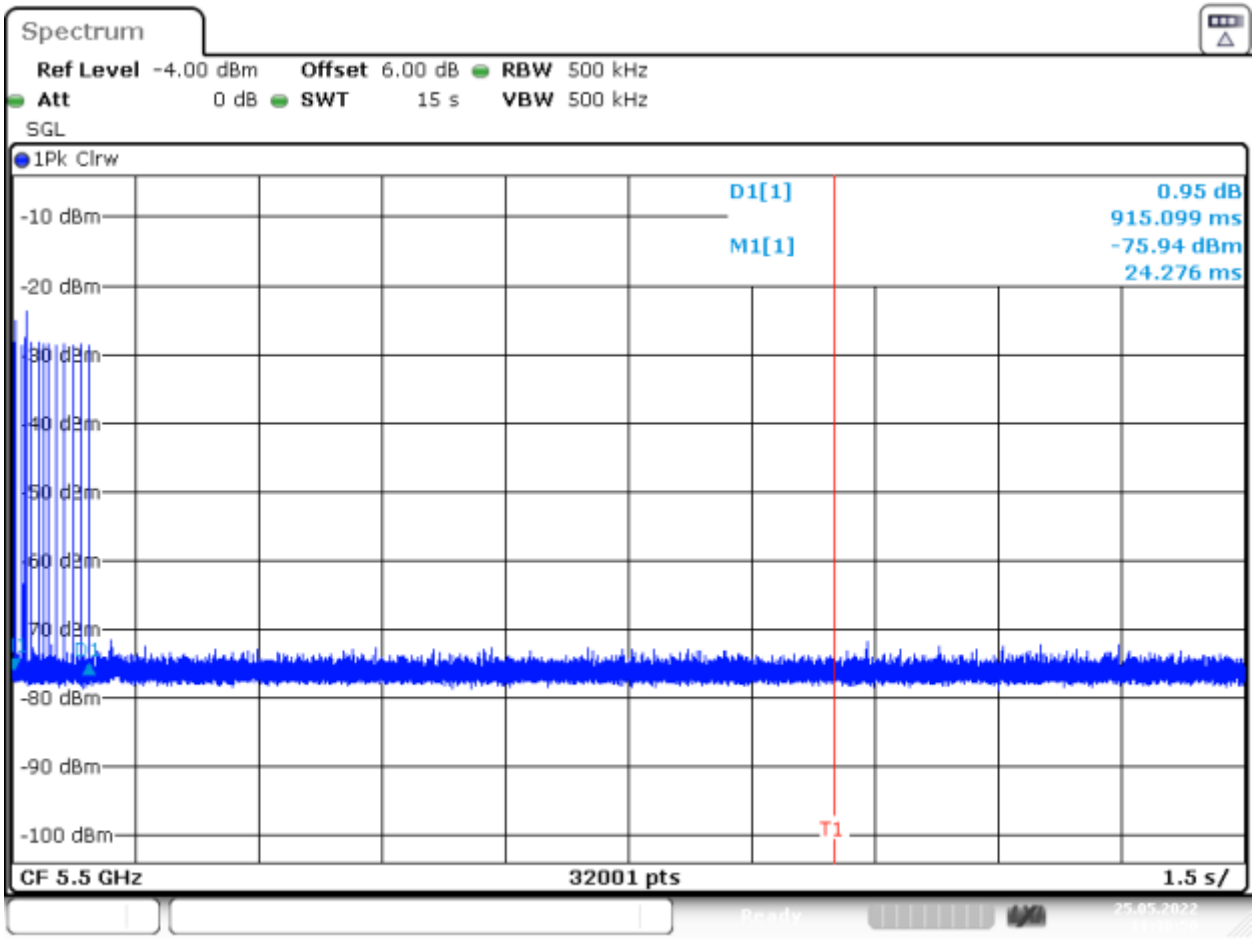
Observe the transmissions of the UUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing Transmission Time results to the limits defined in the *DFS Response Requirement Values table*.

Beacons of the UUT were measured to verify aggregate time does not exceed 260 ms.

Test Results: The EUT was compliant with In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time, and Non-Occupancy Period.

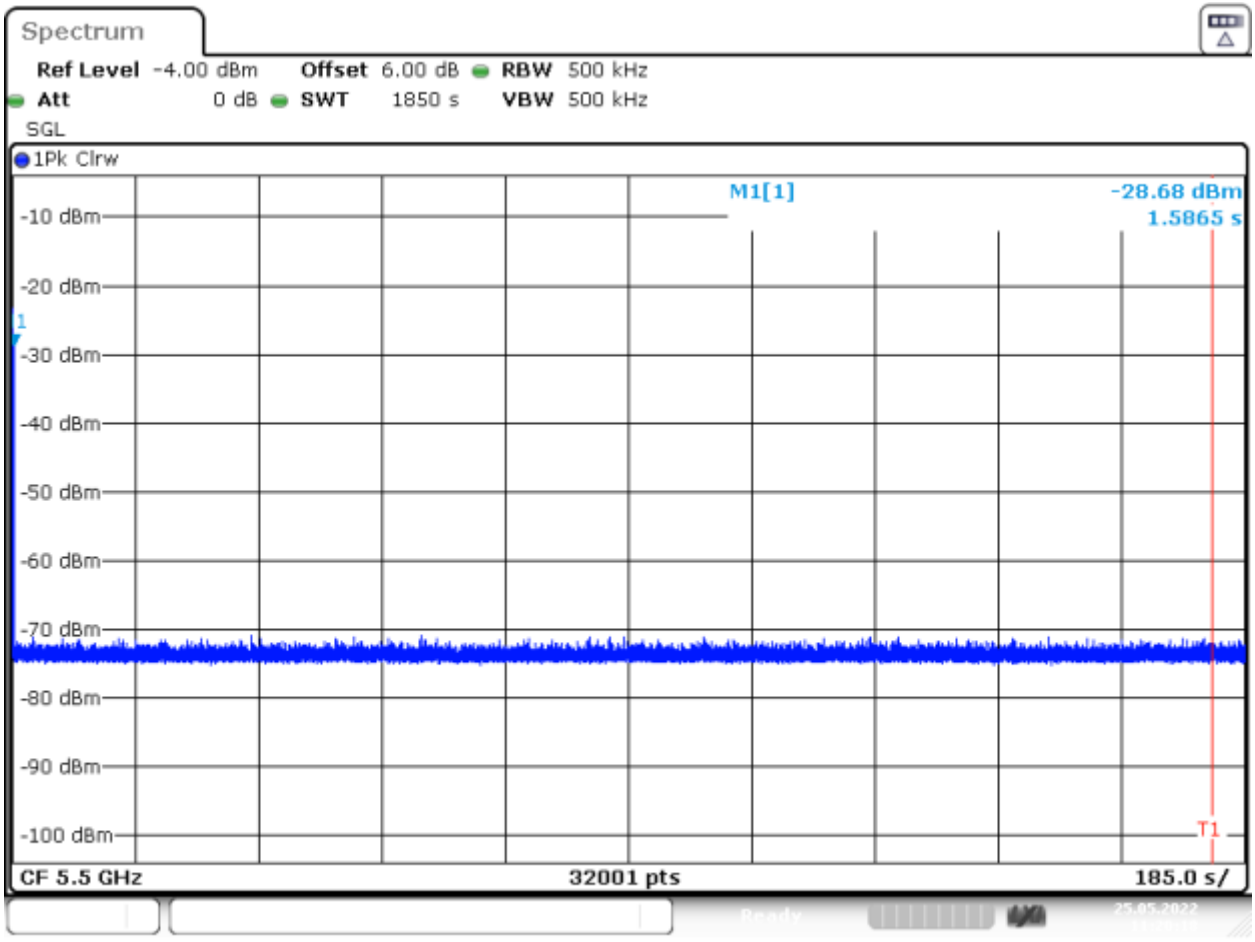
Test Engineer: Bryan Taylor

Test Date: 5/25/2022



Channel Move Time: Transmission End Time at 915.099mS. Meets the 10 Second channel move time requirement.
Channel Closing Time = 0.6552mS (limit = 60mS)

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30 Minute Non-Occupancy Period

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IV. Test Equipment

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Test Equipment

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2017.

MET Asset #	Description	Manufacturer	Model	Last Cal Date	Cal Due Date
1T4771	Spectrum Analyzer	Keysight	E4446A	4/25/2022	10/25/2023
1A1234	Spectrum Analyzer	Rohde & Schwarz	FSV 40	01/20/2022	01/20/2023
1A1083	Receiver	Rohde & Schwarz	ESU40	7/1/2021	7/1/2022
1A1050	Bilog Antenna (30MHz – 1GHz)	Schaffner	CBL 6112D	12/01/2020	12/01/2022
1A1183	Horn Antenna (1GHz – 18GHz)	ETS Lindgren	3117	06/01/2020	06/01/2022
1A1169	Temp, Humidity, and Pressure Recorder	Omega	OM-CP-PRHTemp2000	03/02/2022	03/02/2023
1S3905	Vector Signal Generator	Keysight	N5172B	See Note	
None	Power Divider	Weinschel	1506A	See Note	
None	Power Divider	MCS	AAMCS-PWD-2W-0.5G-13G-10W-Sf	See Note	
1A1099	Generator	Com-Power	CGO-51000	See Note	
1A1088	Preamplifier	Rohde & Schwarz	TS-PR1	See Note	
1A1044	Generator	Com-Power	CG-520	See Note	
1A1073	Multi Device Controller	ETS	2090	See Note	
1A1074	System Controller	Panasonic	WV-CU101	See Note	
1A1080	Multi-Device	ETS	2090	See Note	
1A1180	Preamplifier	Miteq	AMF-7D-01001800-22-10P	See Note	

Table 29. Test Equipment List

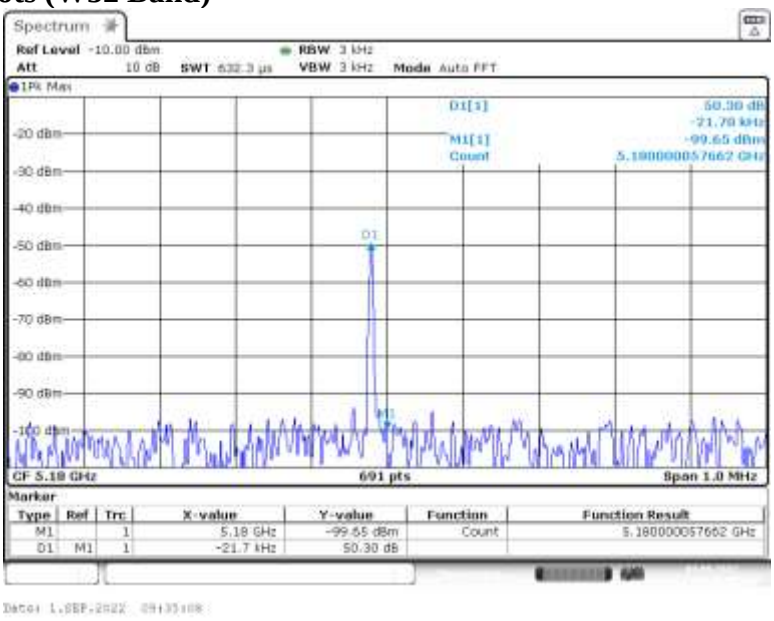
Note: Functionally tested equipment is verified using calibrated instrumentation at the time of testing.

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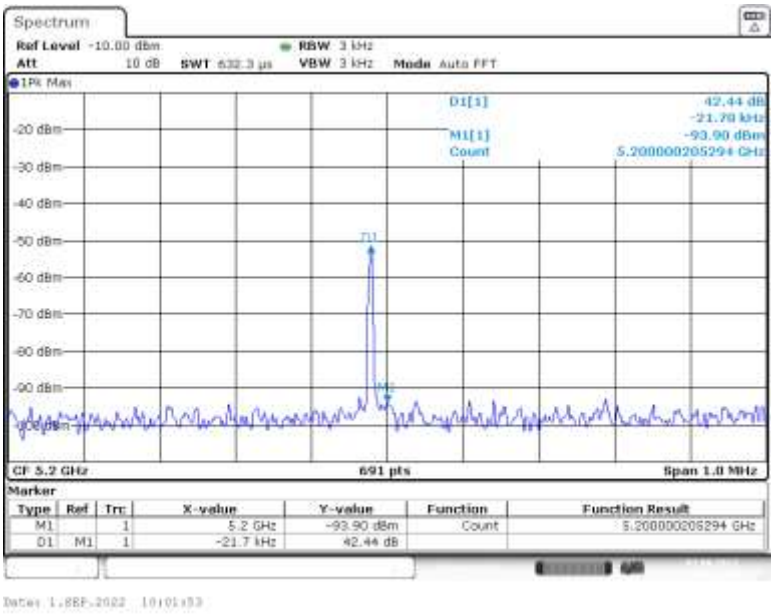
V. Measurement Plots

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Frequency Error Plots (W52 Band)

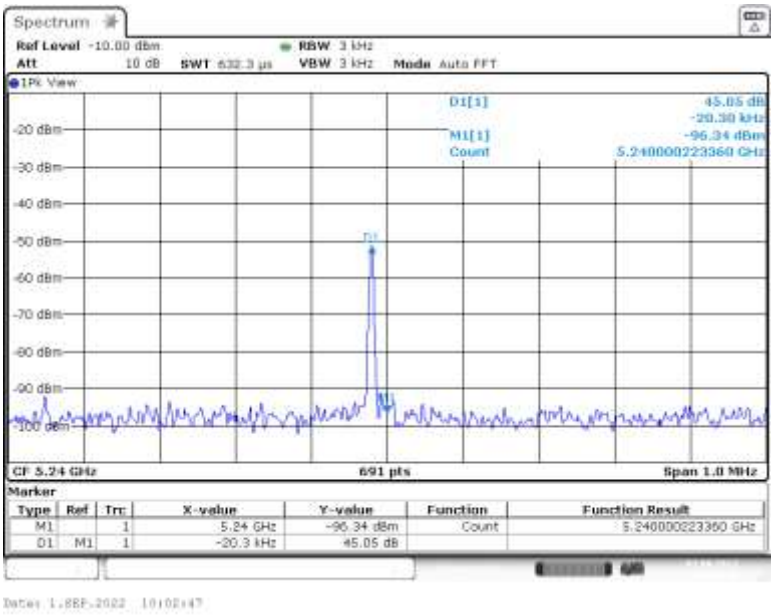


802.11a, 5180MHz, Antenna 0

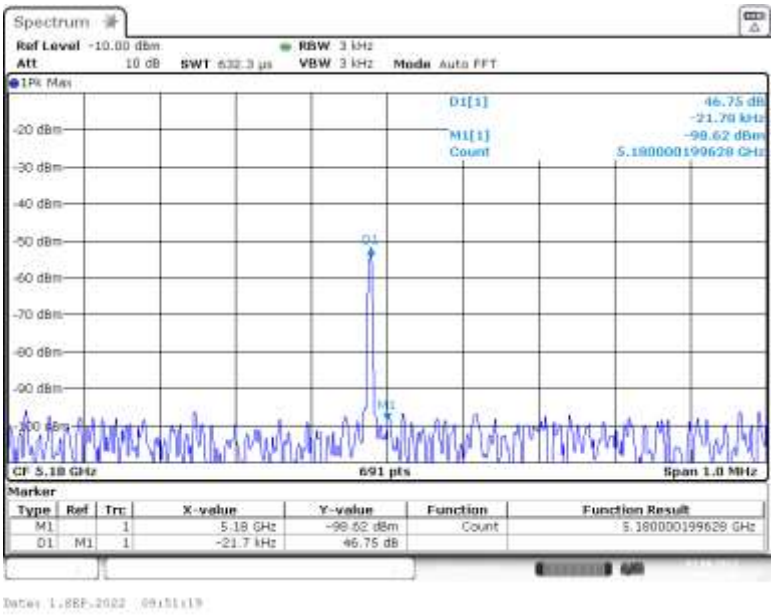


802.11a, 5200MHz, Antenna 0

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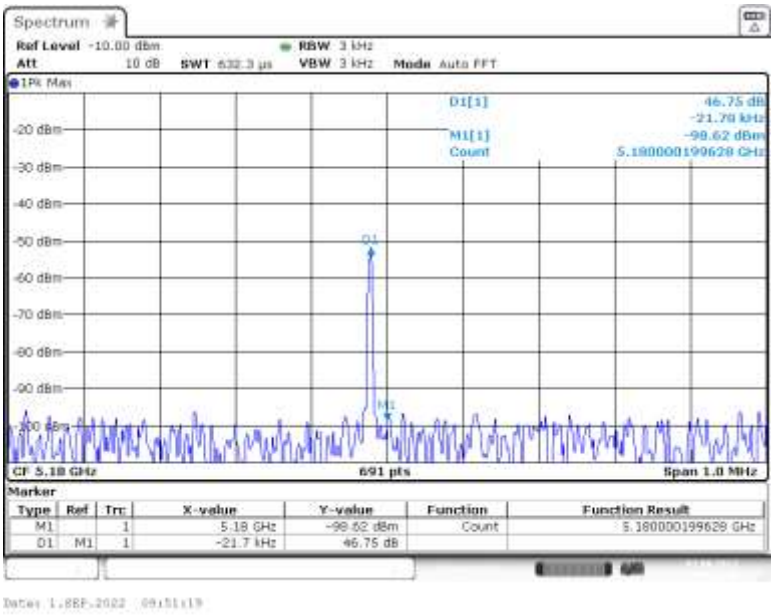


802.11a, 5240MHz, Antenna 0

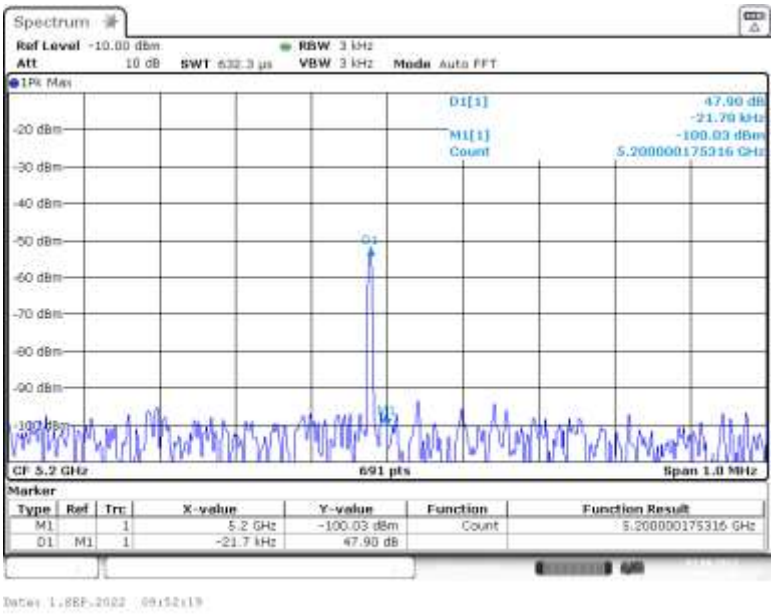


802.11n, 5180MHz, Antenna 0

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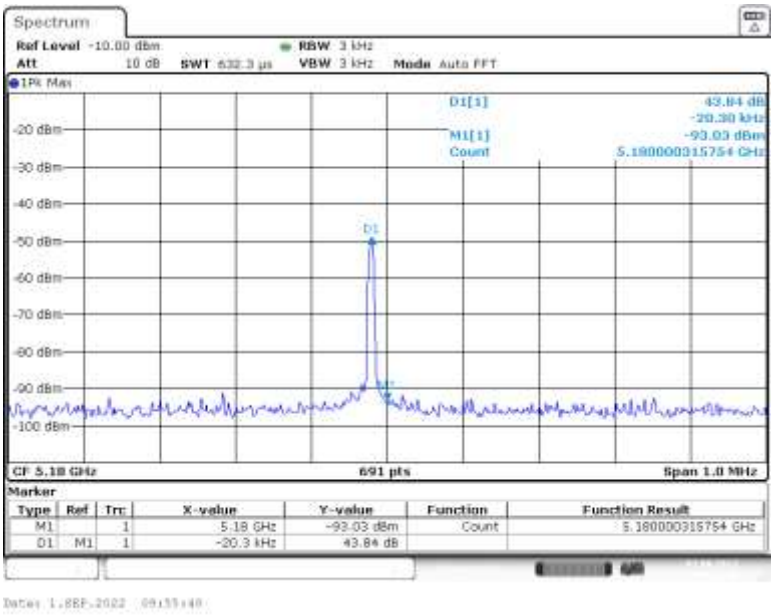


802.11n, 5200MHz, Antenna 0

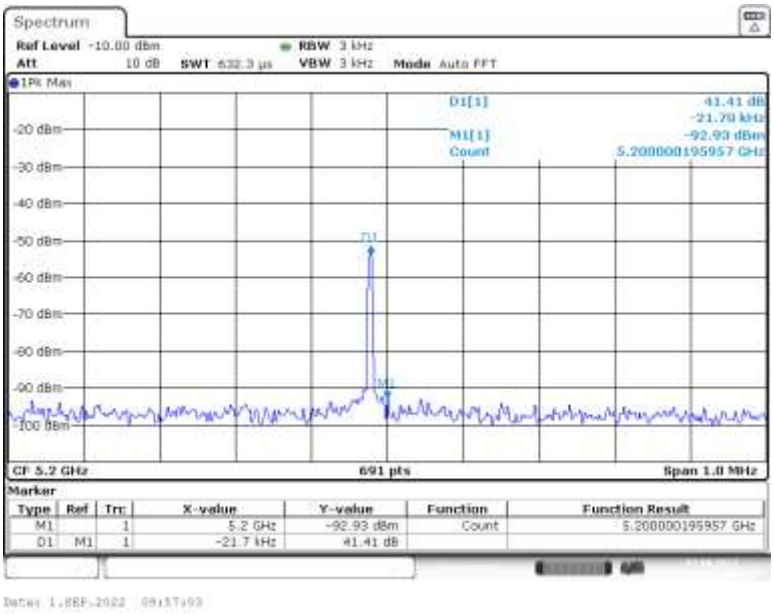


802.11n, 5240MHz, Antenna 0

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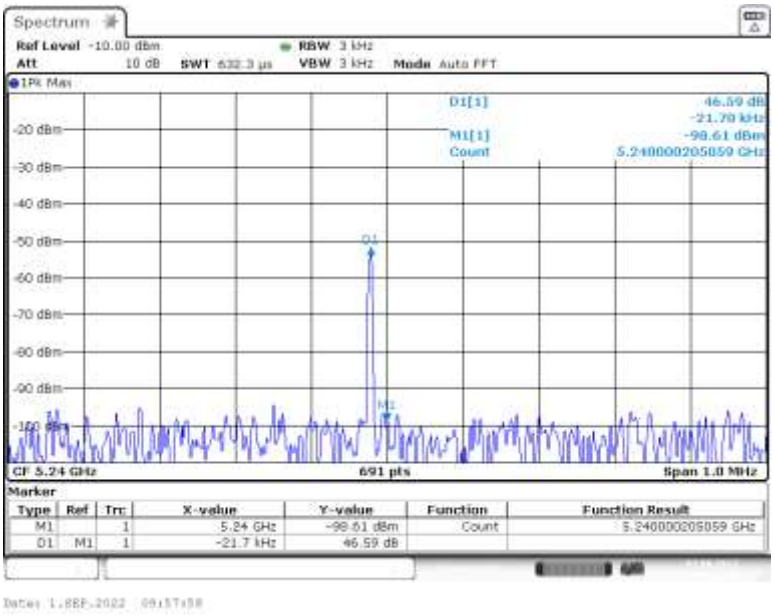


802.11ac20, 5180MHz, Antenna 0

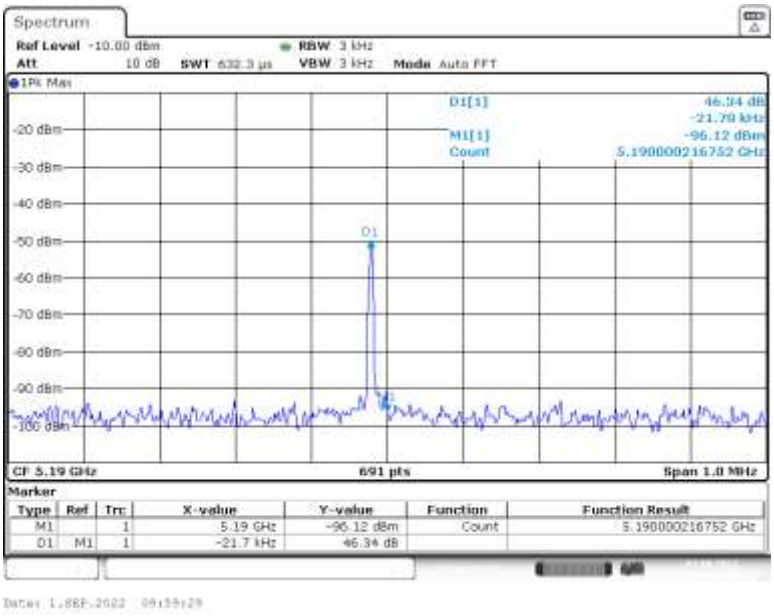


802.11ac20, 5200MHz, Antenna 0

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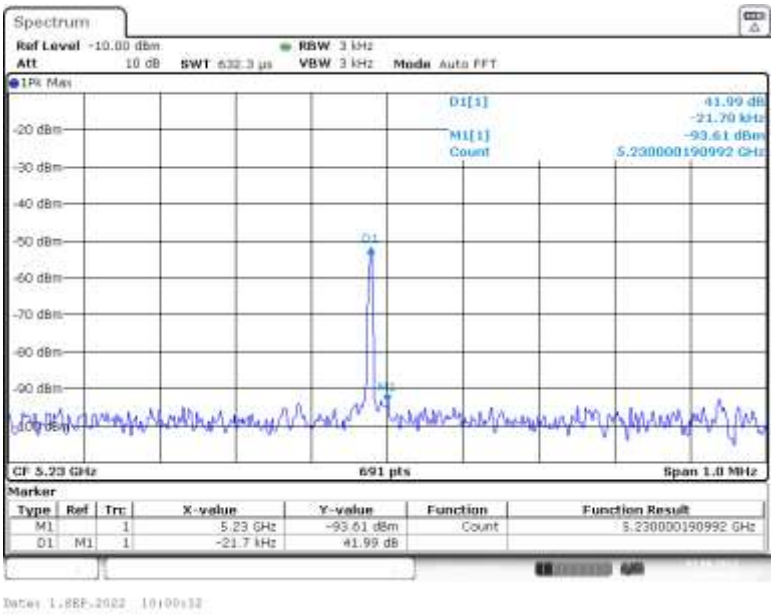


802.11ac20, 5240MHz, Antenna 0

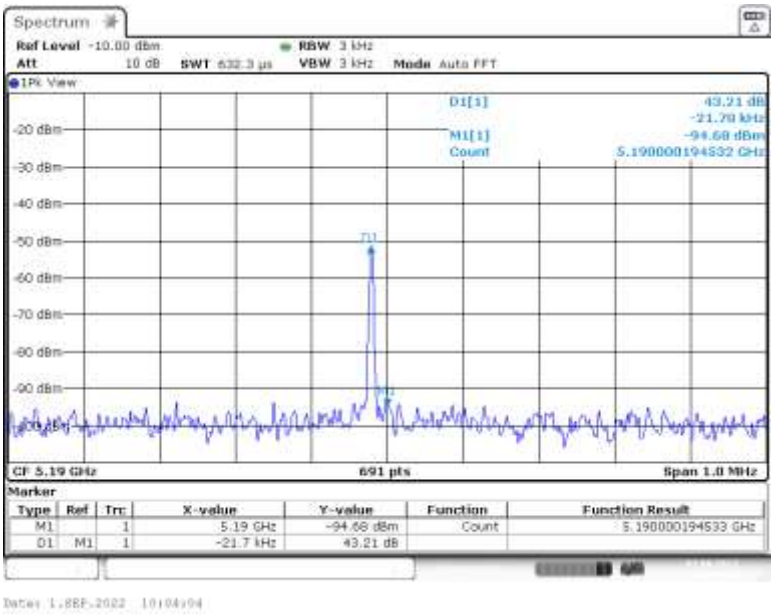


802.11n40, 5190MHz, Antenna 0

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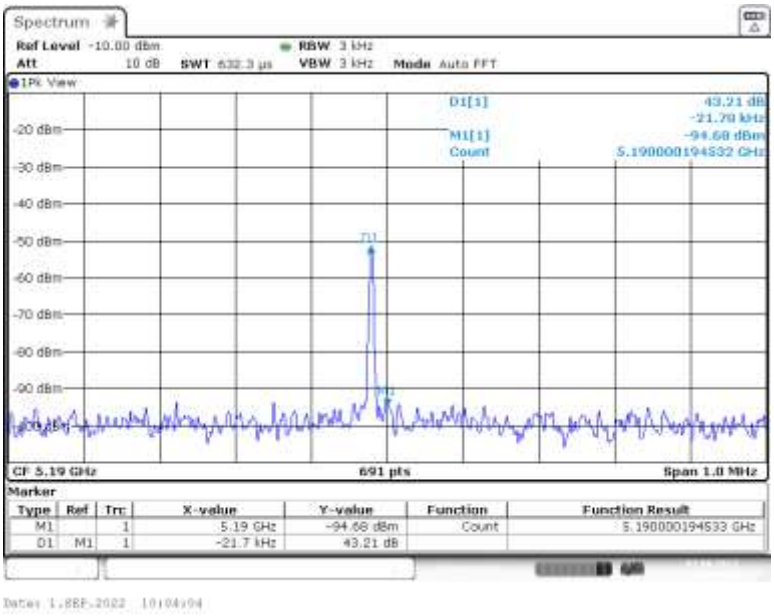


802.11n40, 5230MHz, Antenna 0

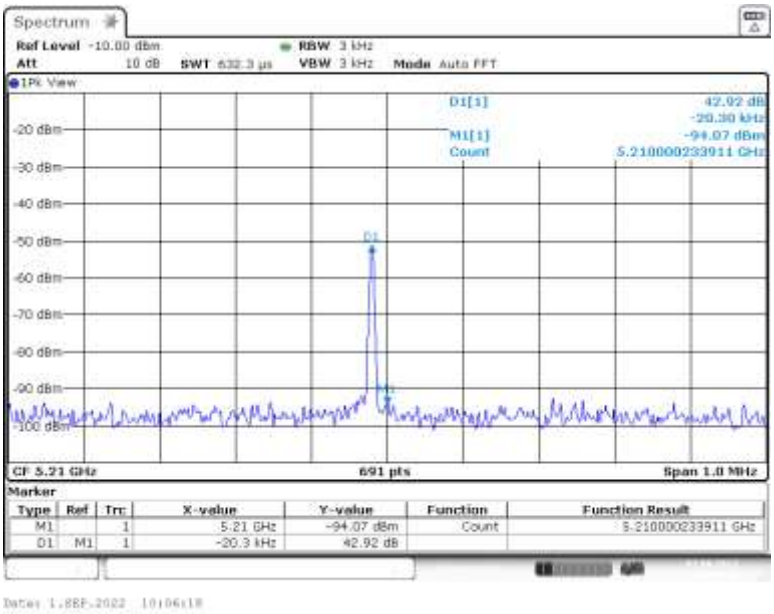


802.11ac40, 5190MHz, Antenna 0

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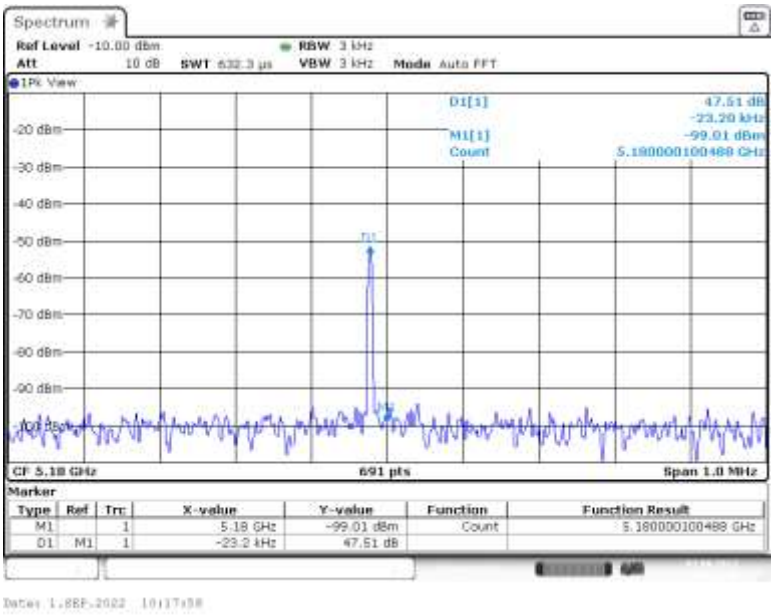


802.11ac40, 5230MHz, Antenna 0

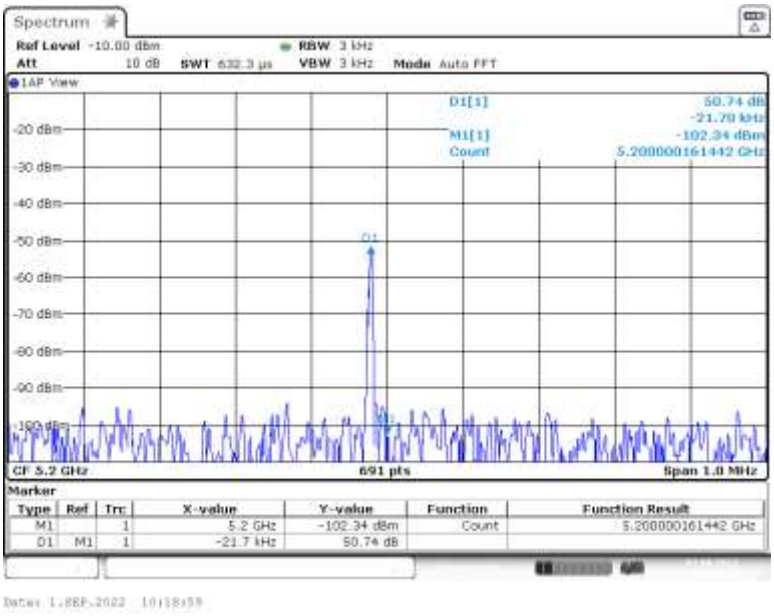


802.11ac80, 5210MHz, Antenna 0

 © 2023, Eurofins MET Labs

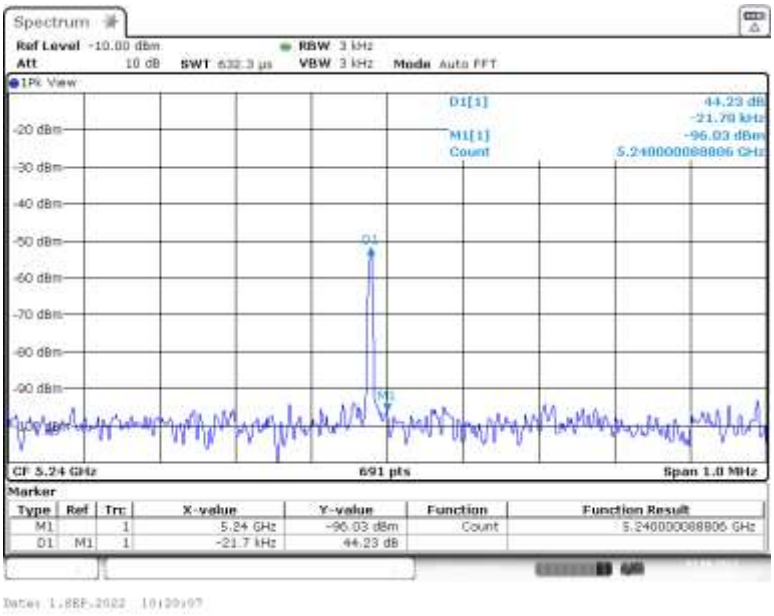


802.11a, 5180MHz, Antenna 1

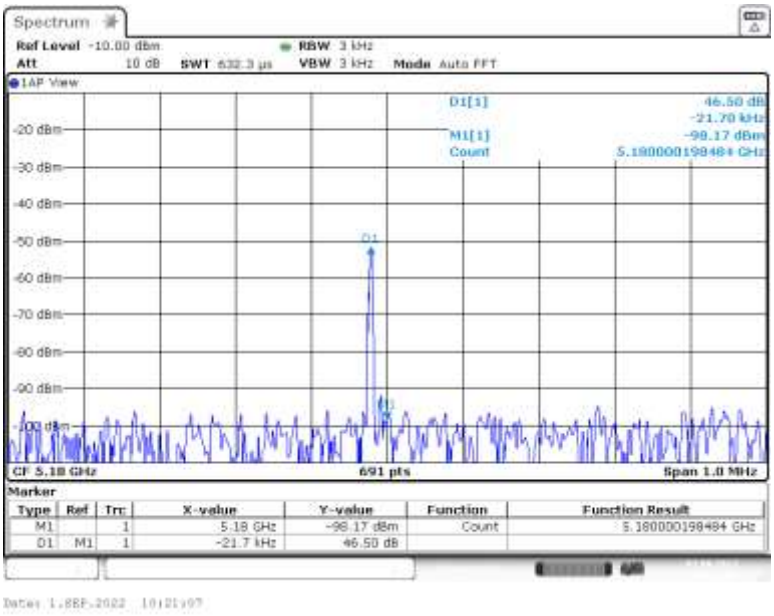


802.11a, 5200MHz, Antenna 1

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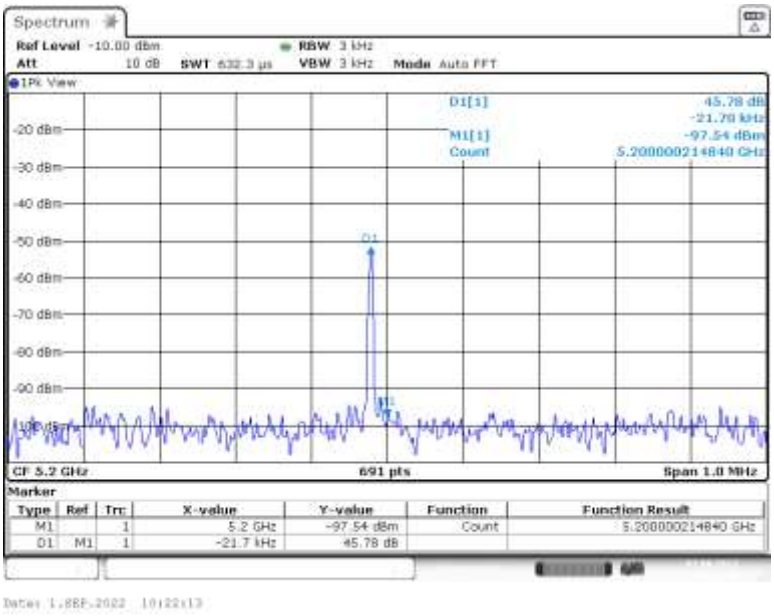


802.11a, 5240MHz, Antenna 1

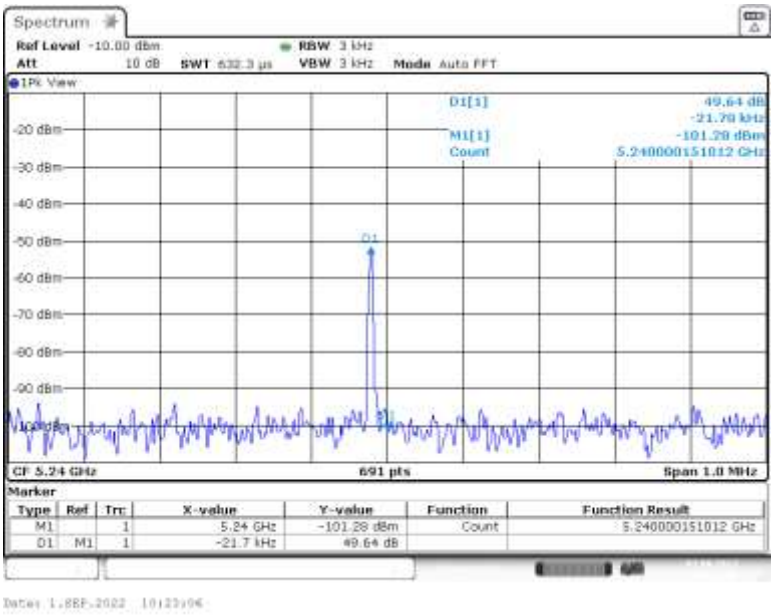


802.11n, 5180MHz, Antenna 1

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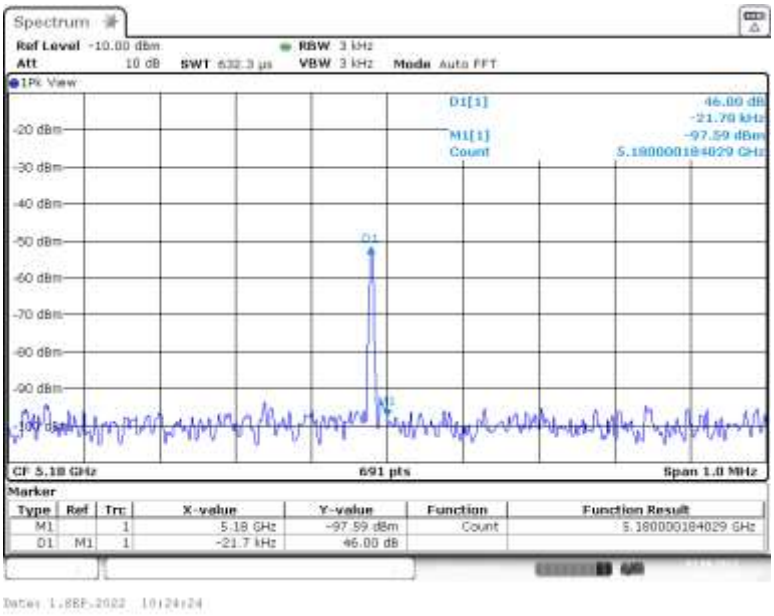


802.11n, 5200MHz, Antenna 1

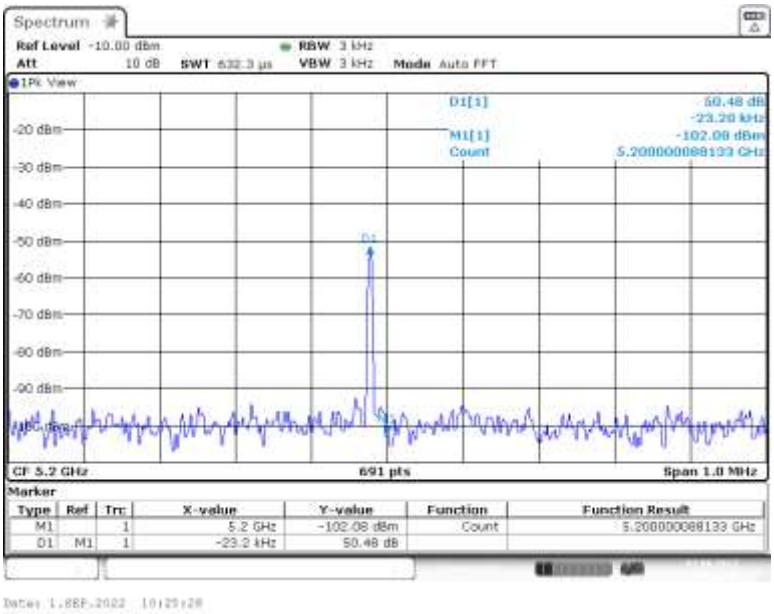


802.11n, 5240MHz, Antenna 1

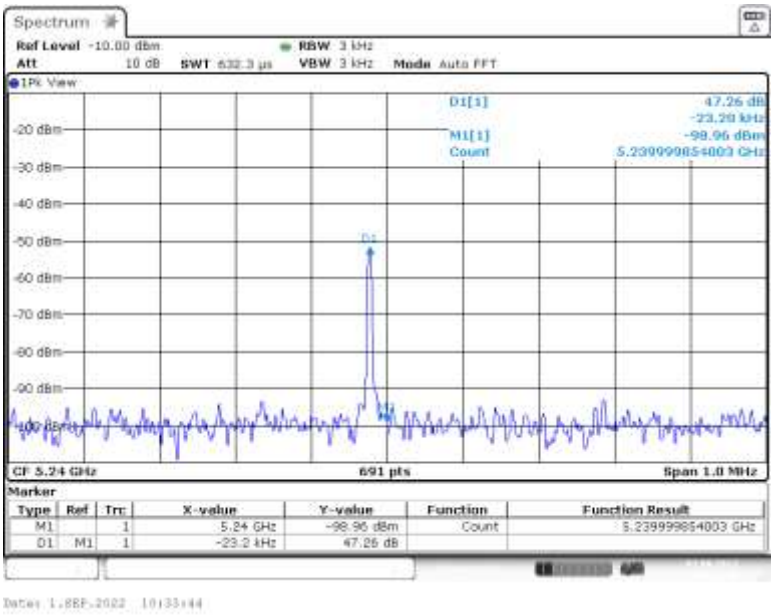
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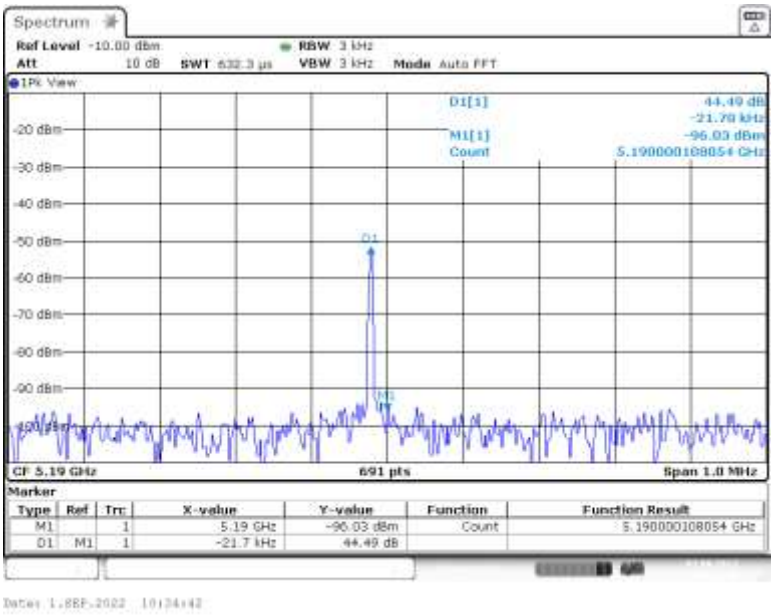
802.11ac20, 5180MHz, Antenna 1



802.11ac20, 5200MHz, Antenna 1

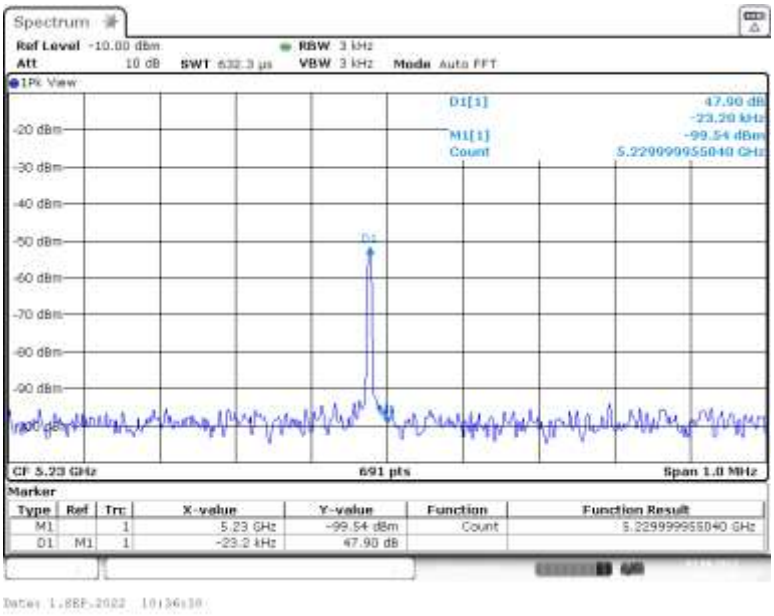


802.11ac20, 5240MHz, Antenna 1

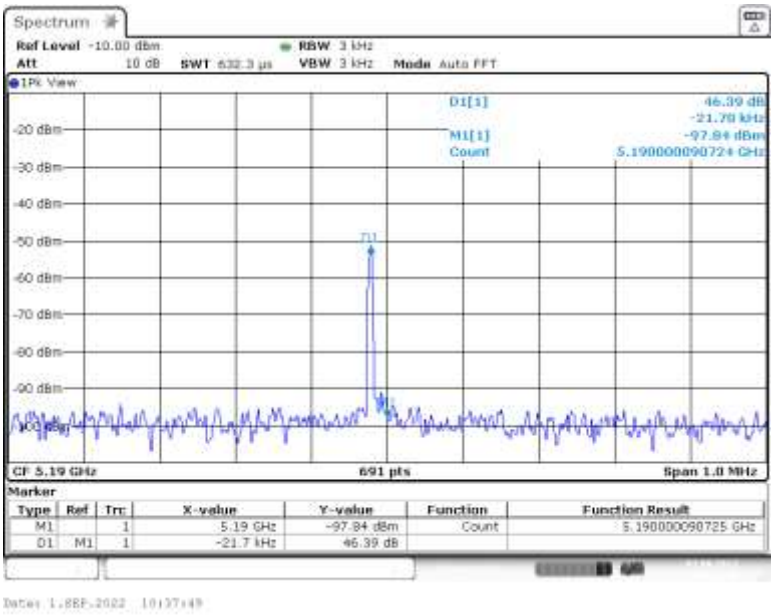


802.11n40, 5190MHz, Antenna 1

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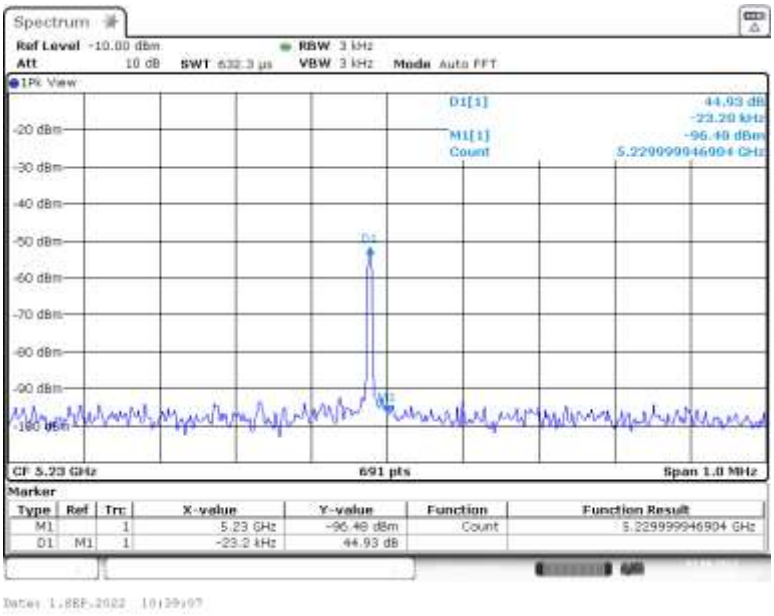


802.11n40, 5230MHz, Antenna 1

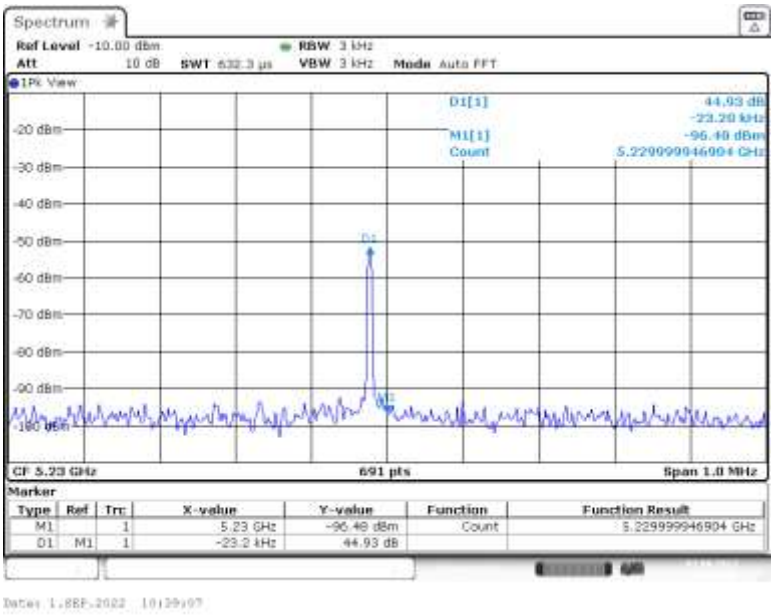


802.11ac40, 5190MHz, Antenna 1

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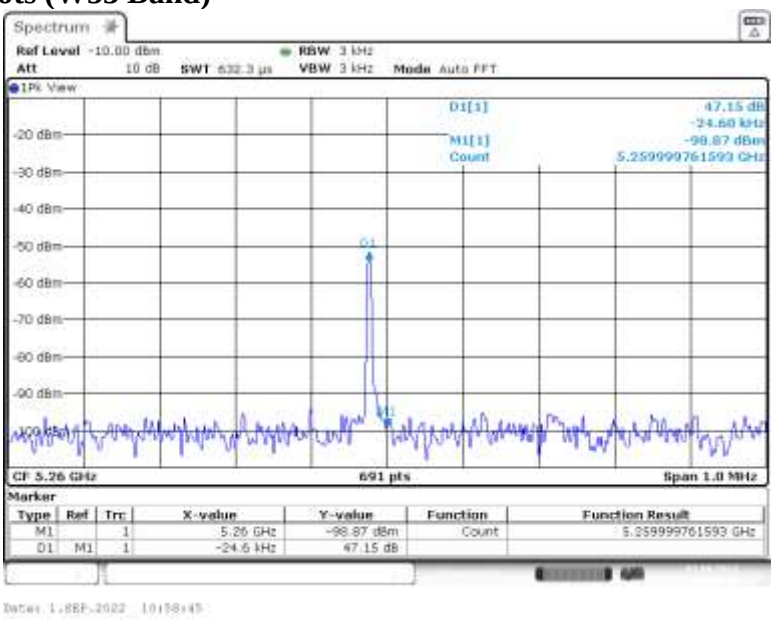
802.11ac40, 5230MHz, Antenna 1



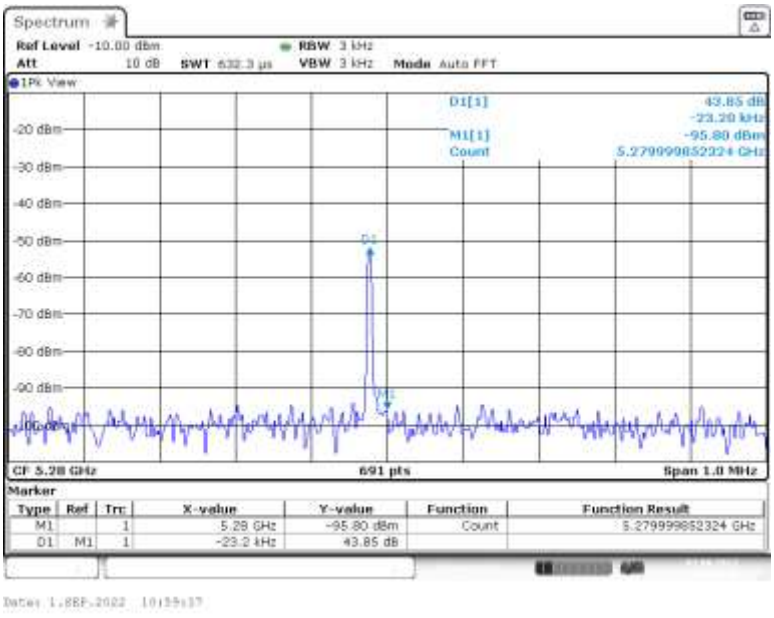
802.11ac80, 5210MHz, Antenna 1

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Frequency Error Plots (W53 Band)

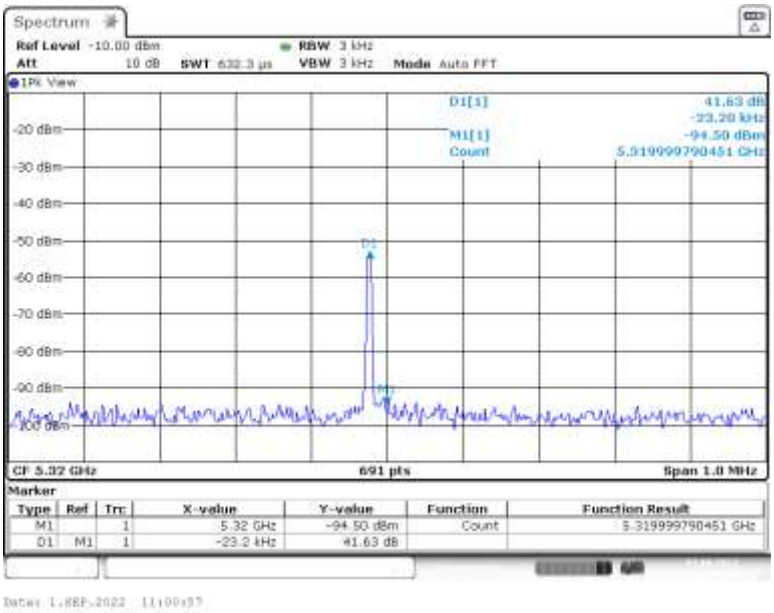


802.11a, 5260MHz, Antenna 0

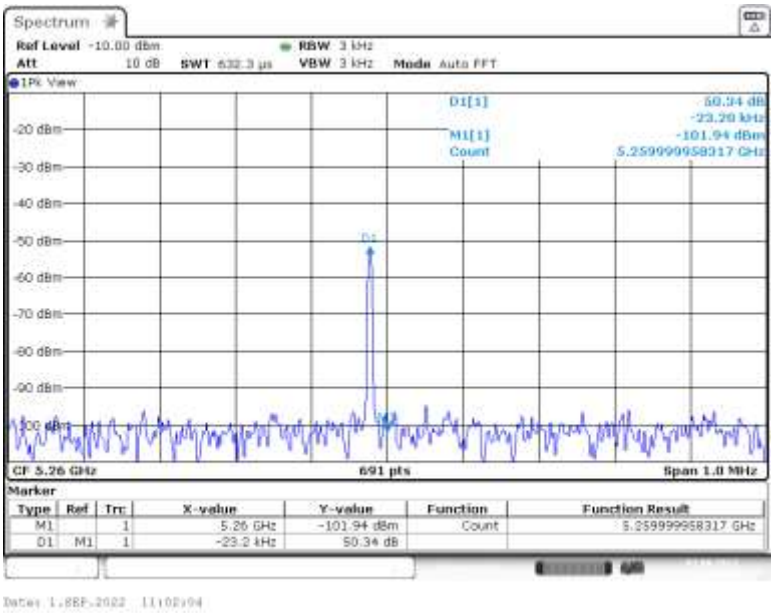


802.11a, 5280MHz, Antenna 0

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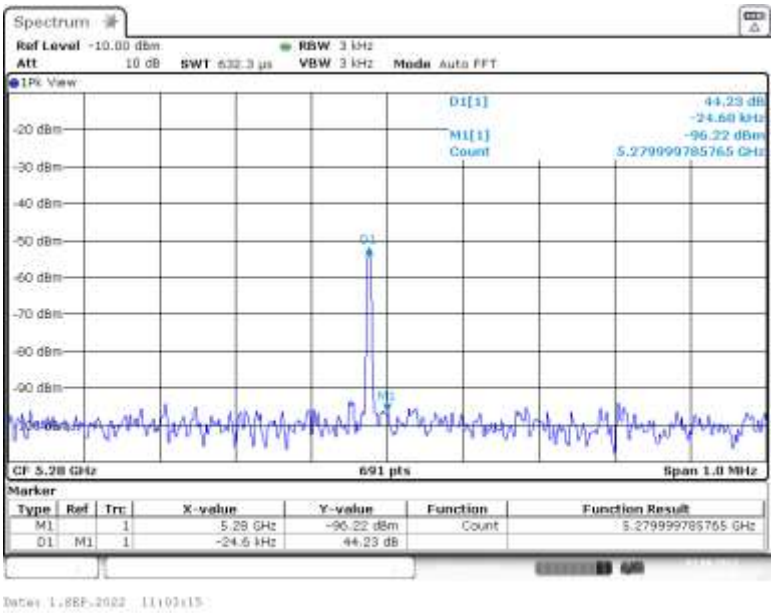


802.11a, 5320MHz, Antenna 0

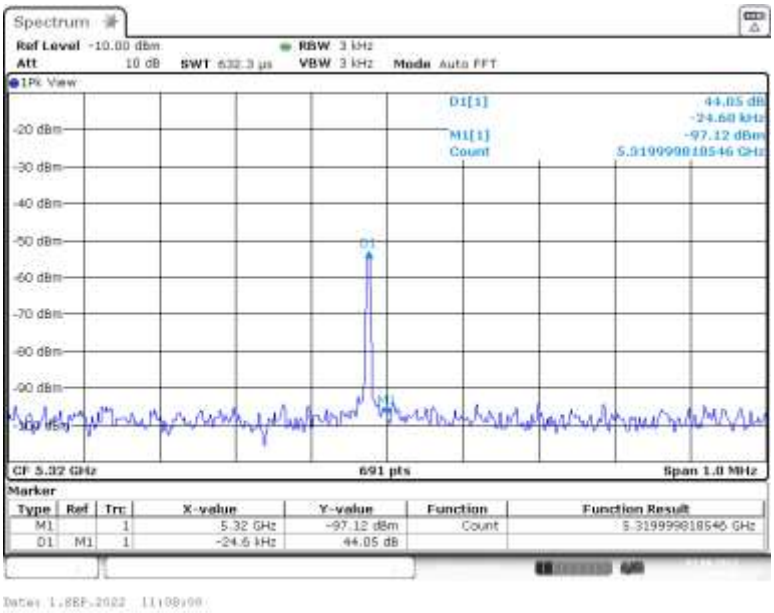


802.11n20, 5260MHz, Antenna 0

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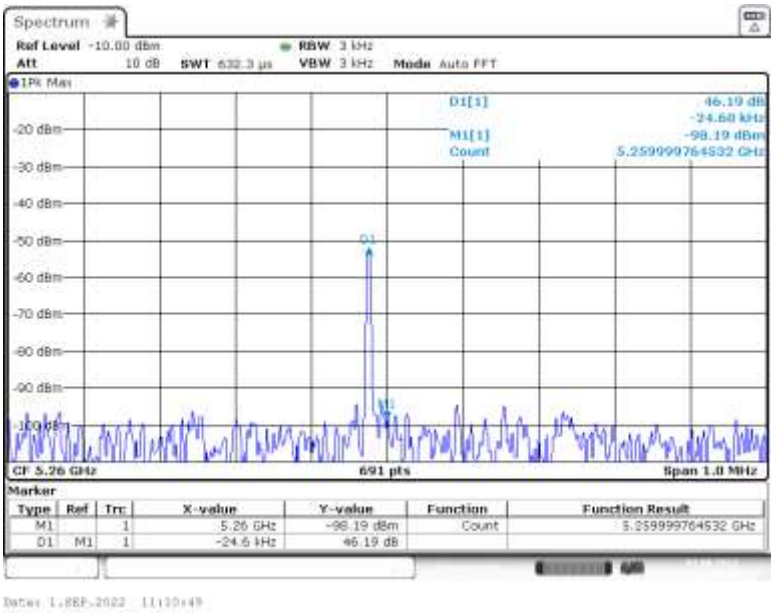


802.11n20, 5280MHz, Antenna 0

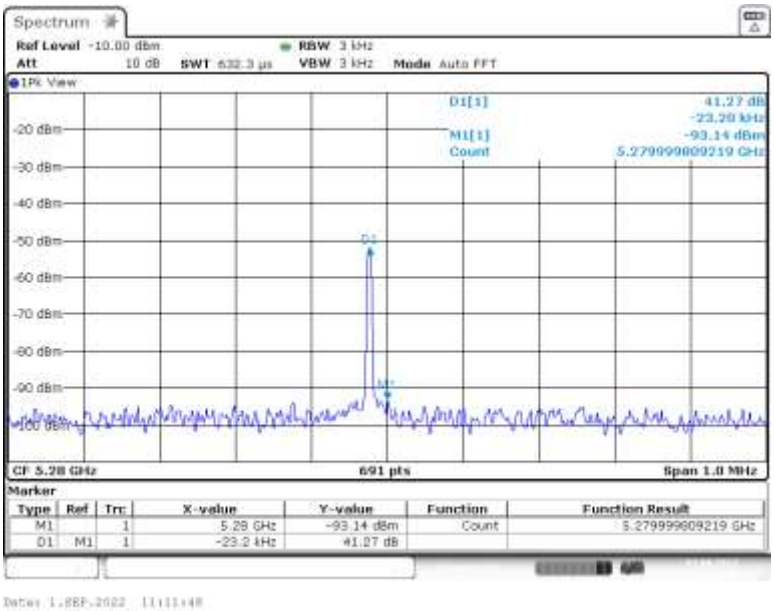


802.11n20, 5320MHz, Antenna 0

 © 2023, Eurofins MET Labs

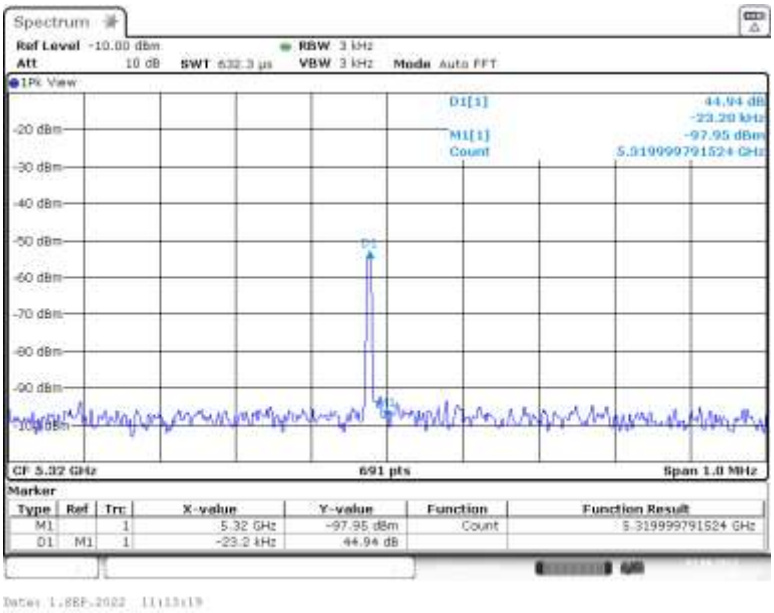


802.11ac20, 5260MHz, Antenna 0

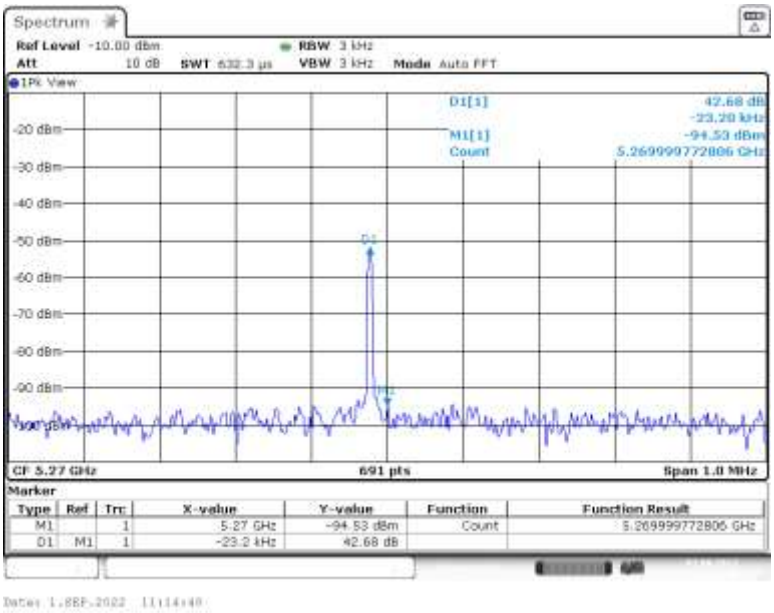


802.11ac20, 5280MHz, Antenna 0

 © 2023, Eurofins MET Labs

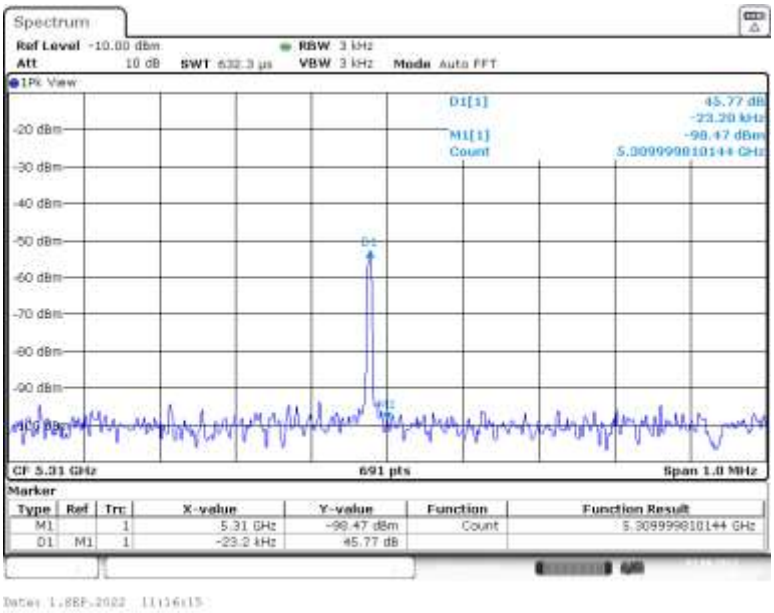


802.11ac20, 5320MHz, Antenna 0

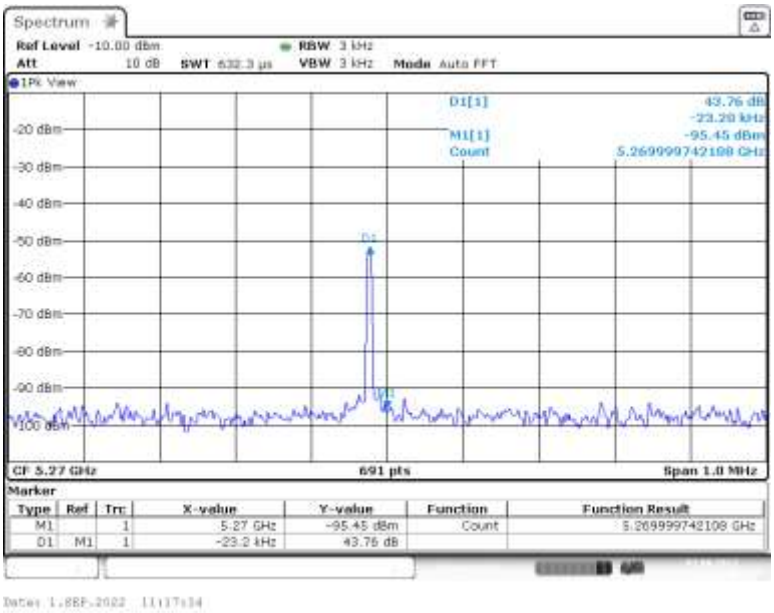


802.11n40, 5270MHz, Antenna 0

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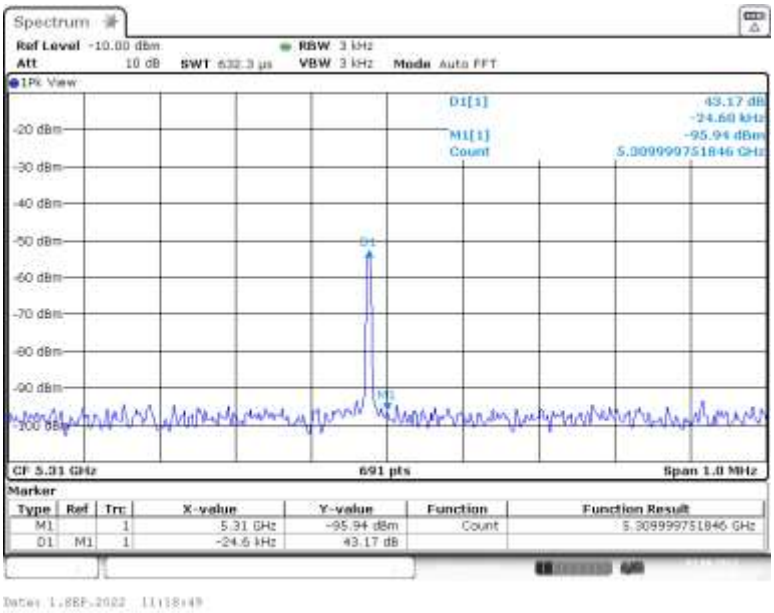


802.11n40, 5310MHz, Antenna 0

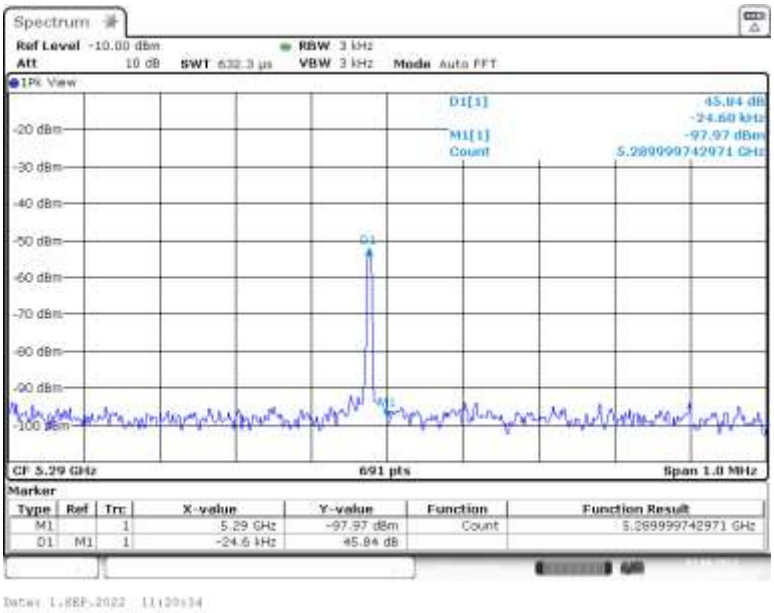


802.11ac40, 5270MHz, Antenna 0

 © 2023, Eurofins MET Labs

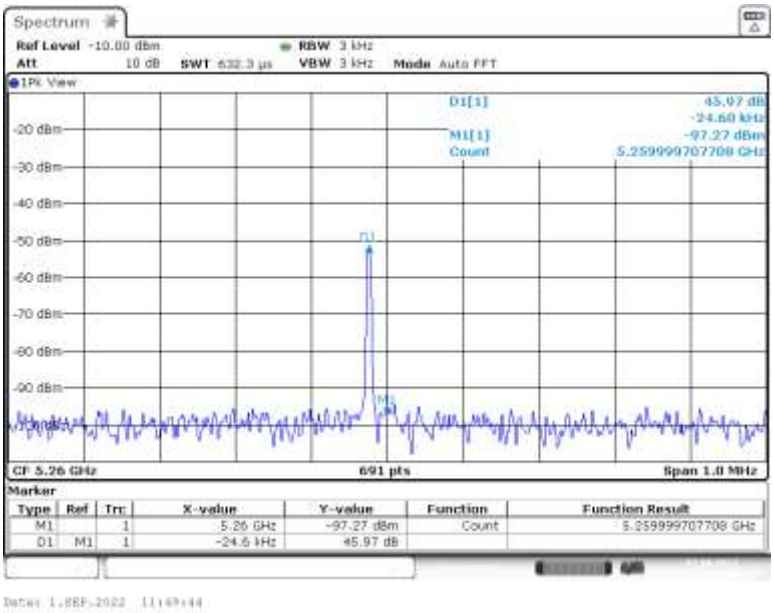


802.11ac40, 5310MHz, Antenna 0

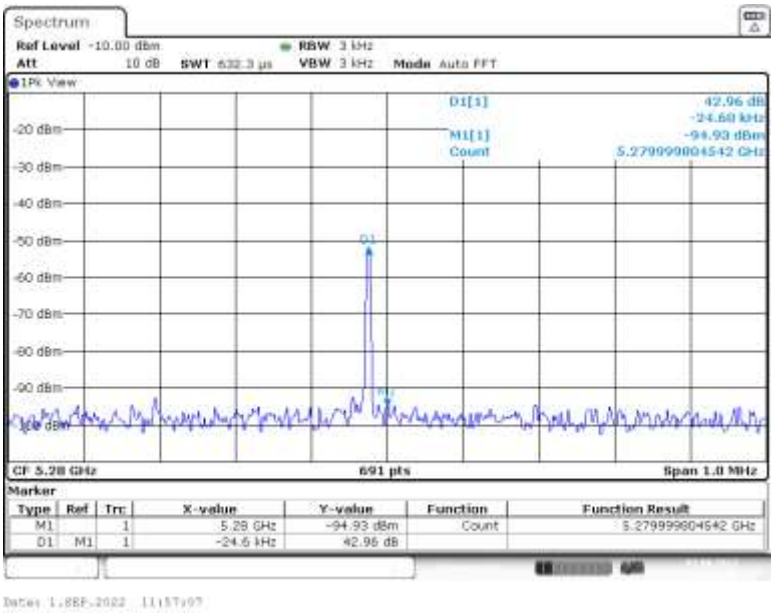


802.11ac80, 5290MHz, Antenna 0

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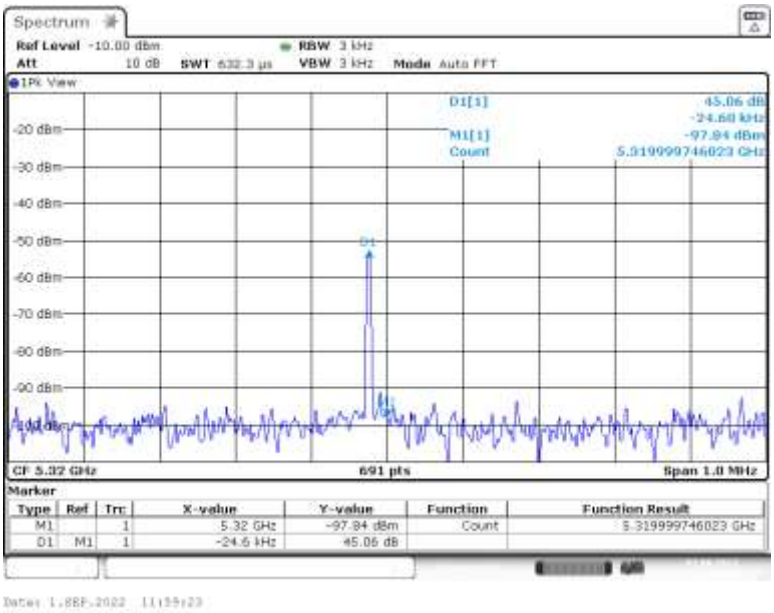


802.11a, 5260MHz, Antenna 1

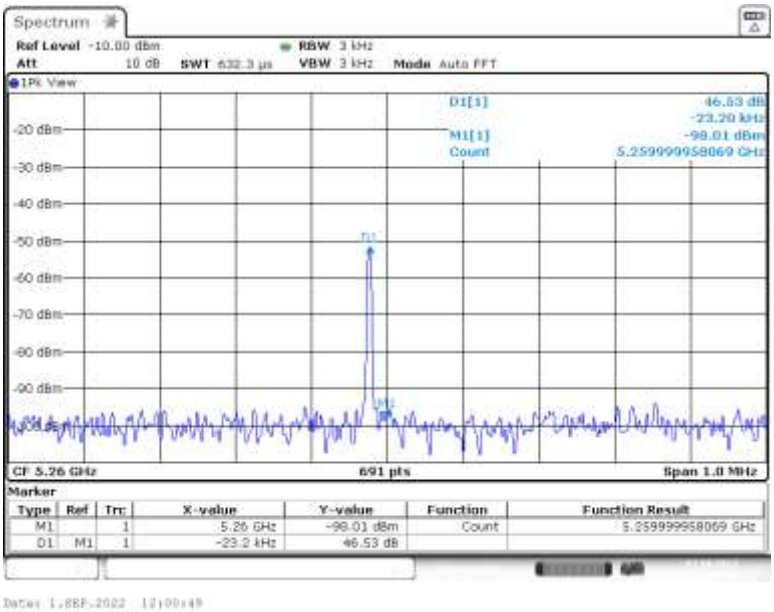


802.11a, 5280MHz, Antenna 1

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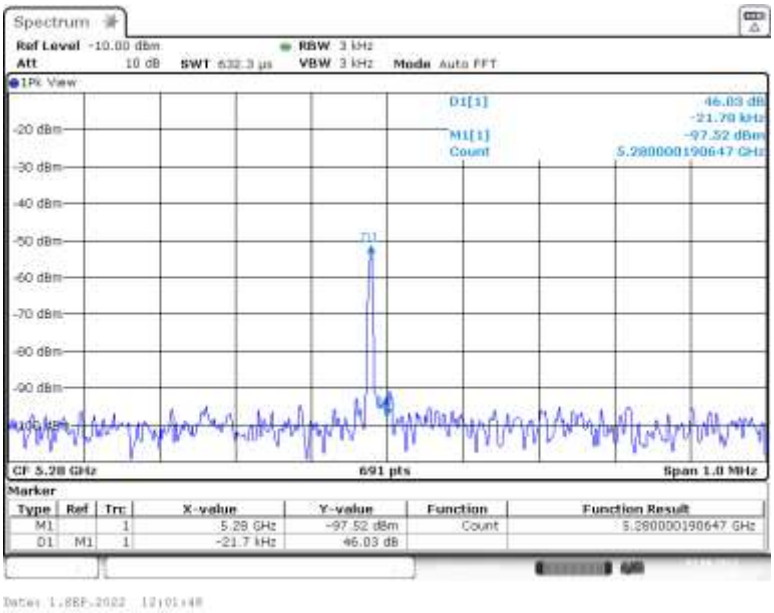


802.11a, 5320MHz, Antenna 1

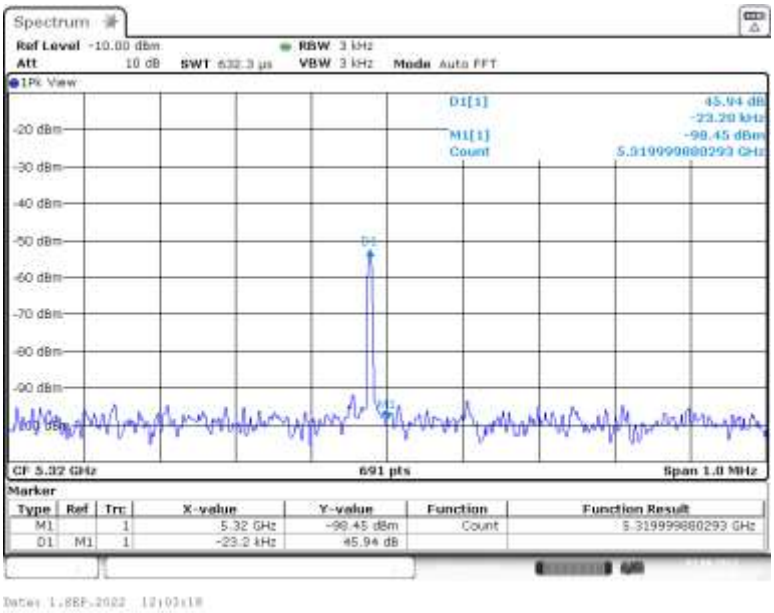


802.11n20, 5260MHz, Antenna 1

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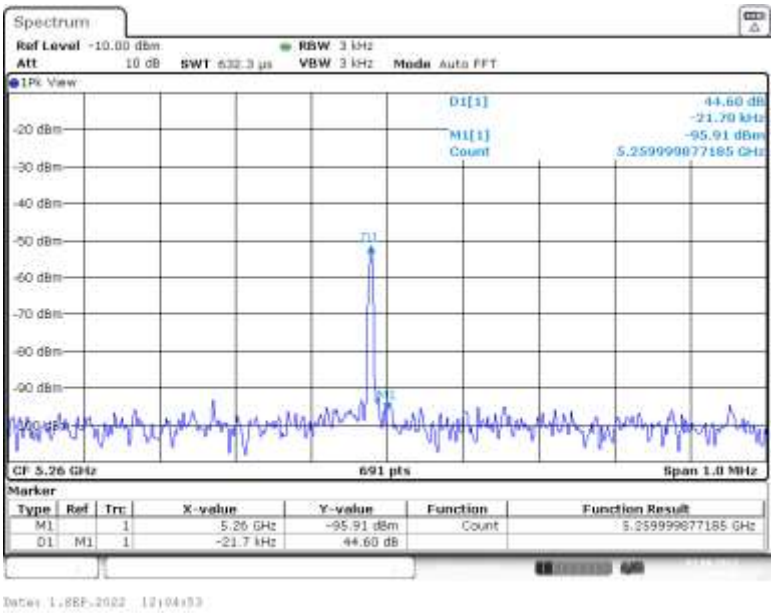


802.11n20, 5280MHz, Antenna 1

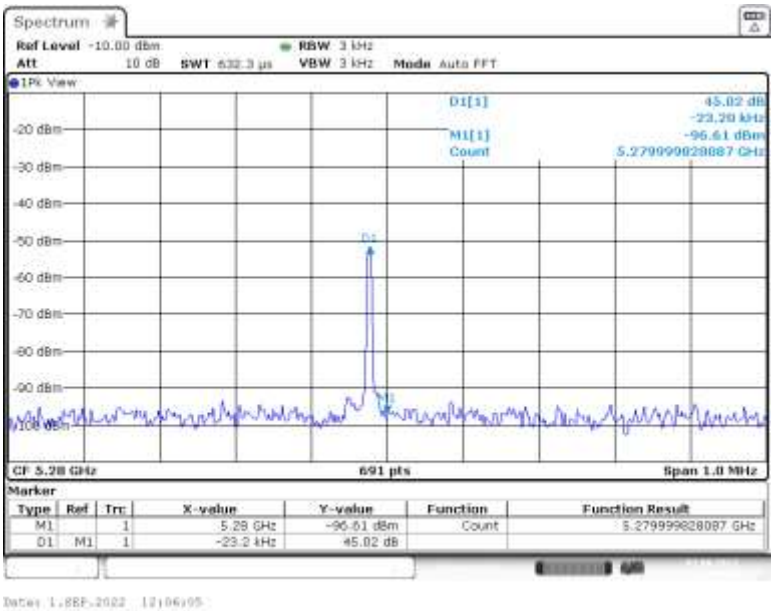


802.11n20, 5320MHz, Antenna 1

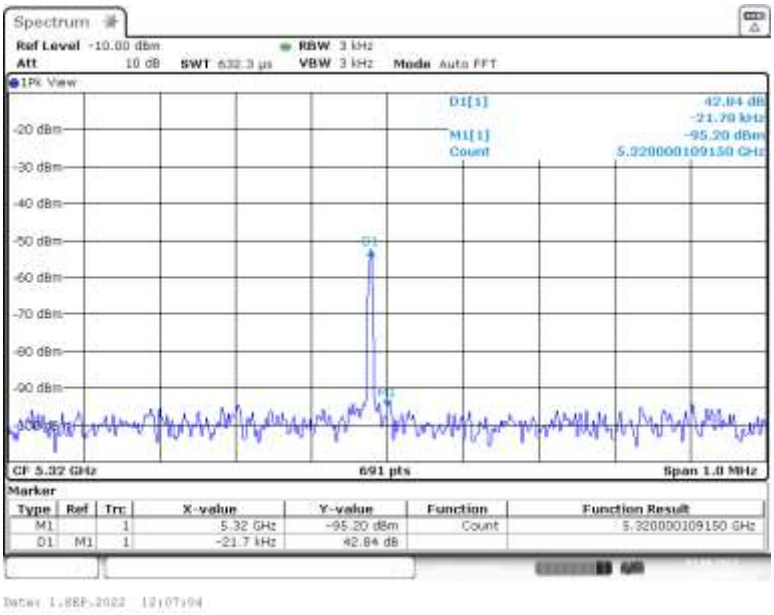
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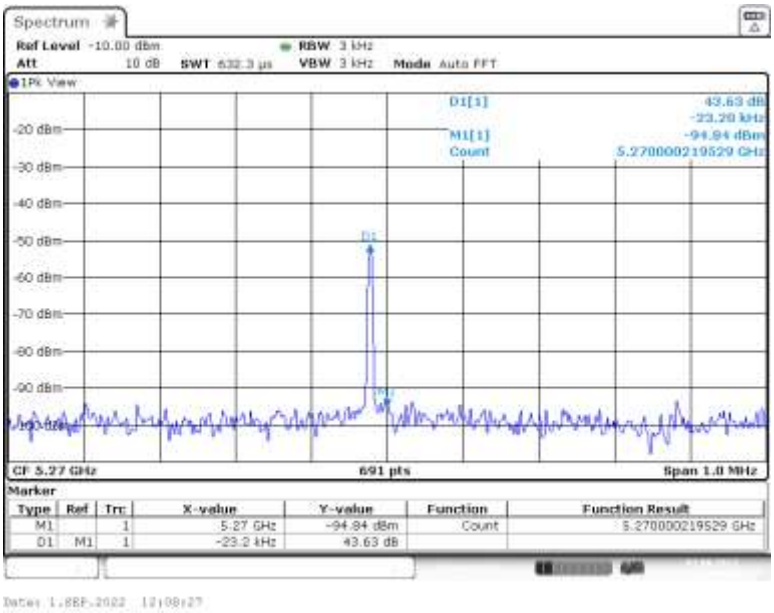
802.11ac20, 5260MHz, Antenna 1



802.11ac20, 5280MHz, Antenna 1

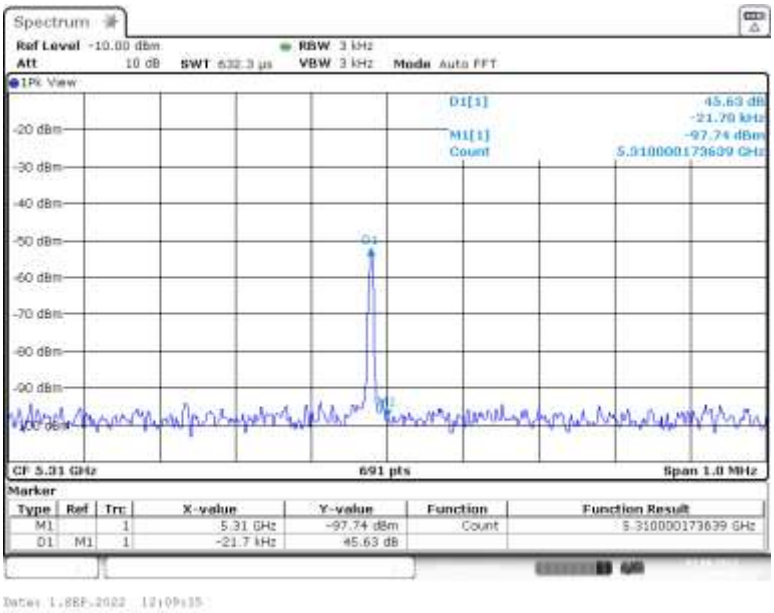


802.11ac20, 5320MHz, Antenna 1

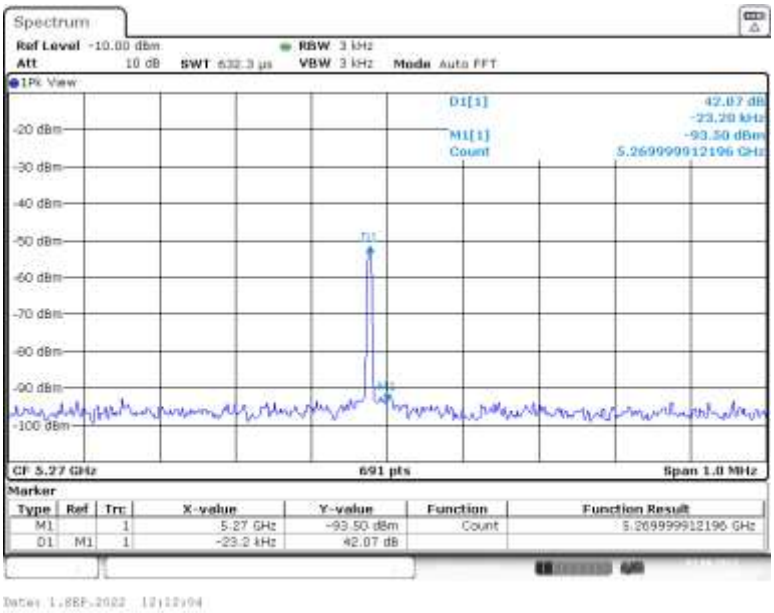


802.11n40, 5270MHz, Antenna 1

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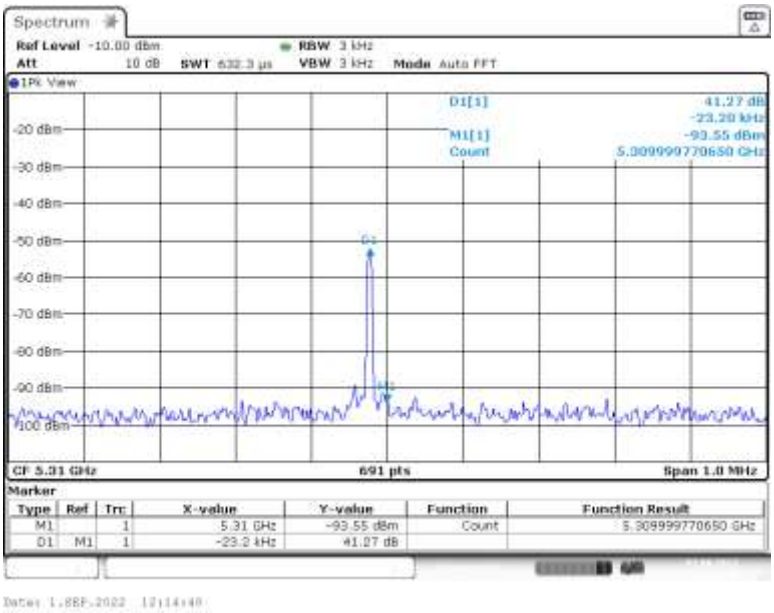


802.11n40, 5310MHz, Antenna 1

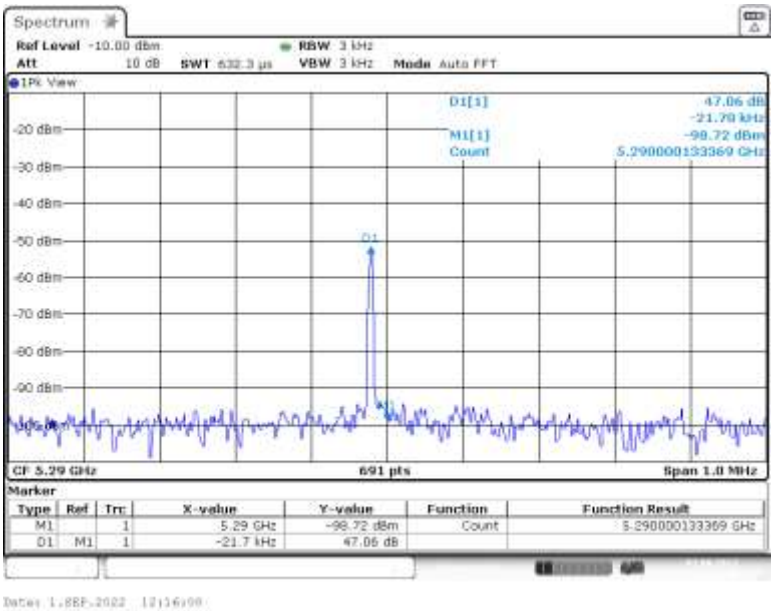


802.11ac40, 5270MHz, Antenna 1

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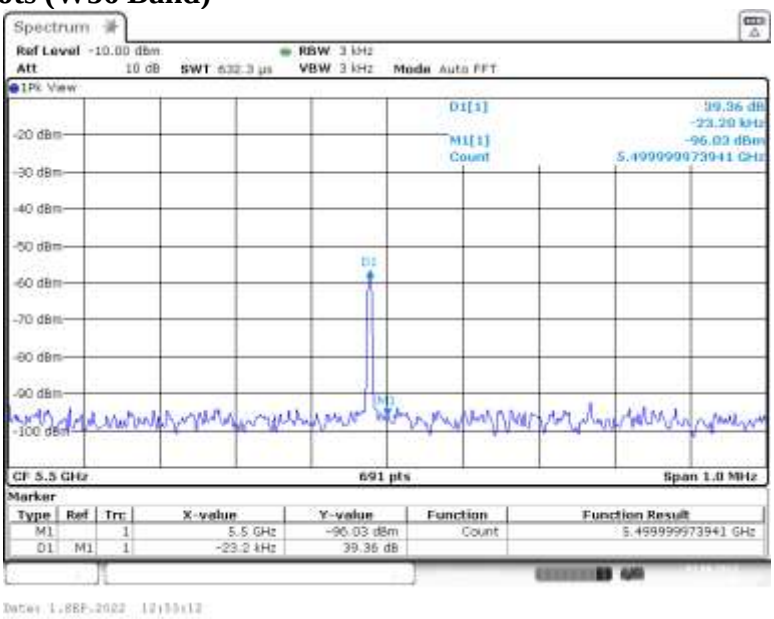
802.11ac40, 5310MHz, Antenna 1



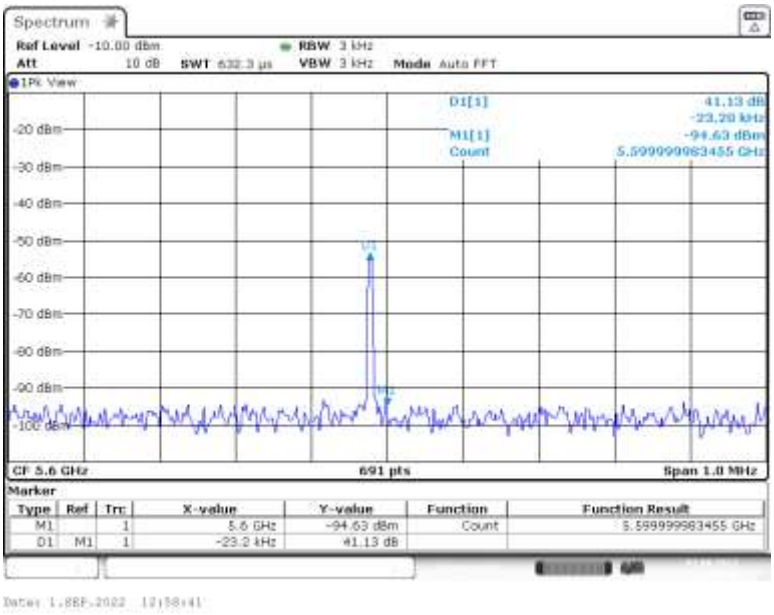
802.11ac80, 5290MHz, Antenna 1

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Frequency Error Plots (W56 Band)

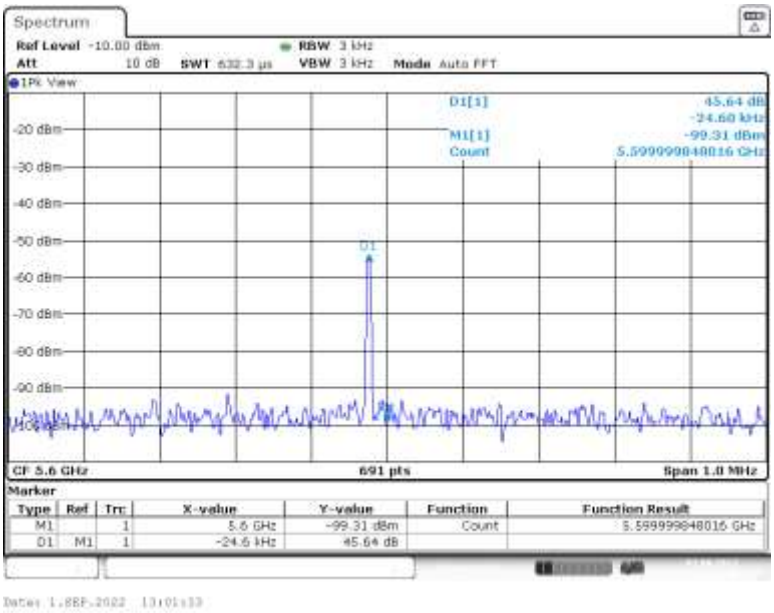


802.11a, 5500MHz, Antenna 0

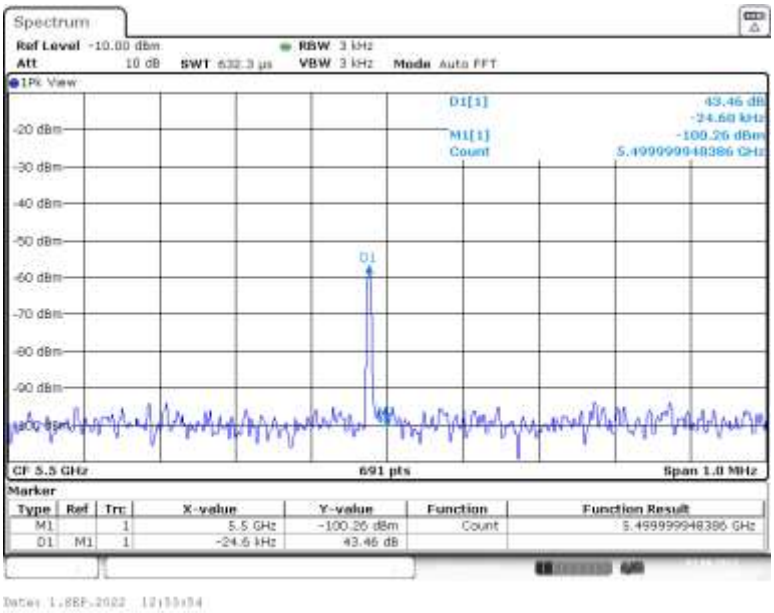


802.11a, 5600MHz, Antenna 0

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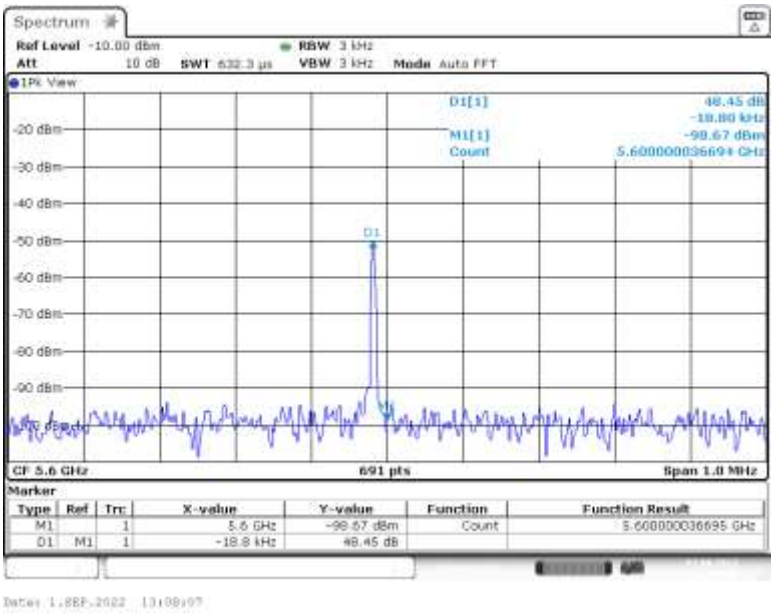


802.11a, 5700MHz, Antenna 0

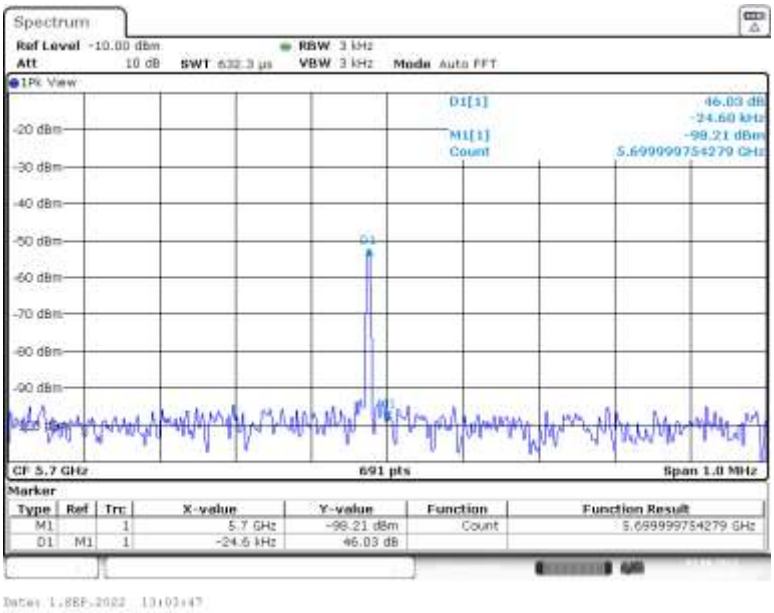


802.11n20, 5500MHz, Antenna 0

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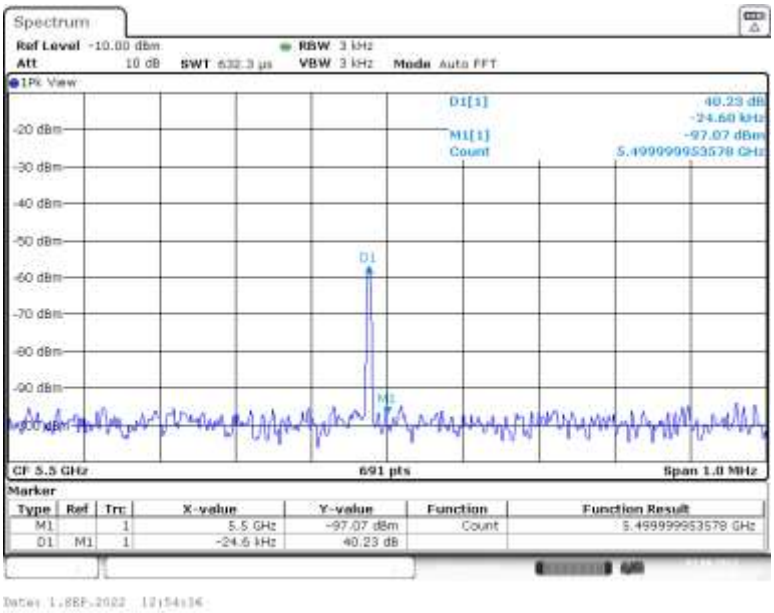


802.11n20, 5600MHz, Antenna 0

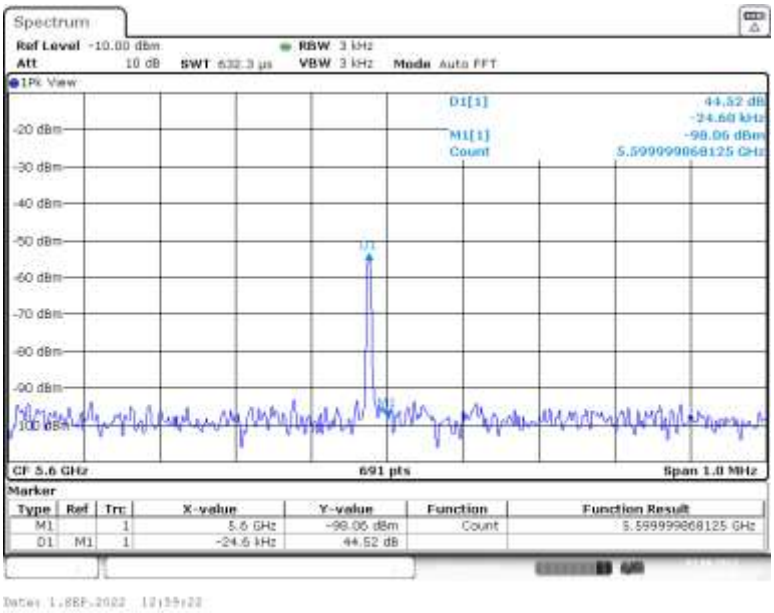


802.11n20, 5700MHz, Antenna 0

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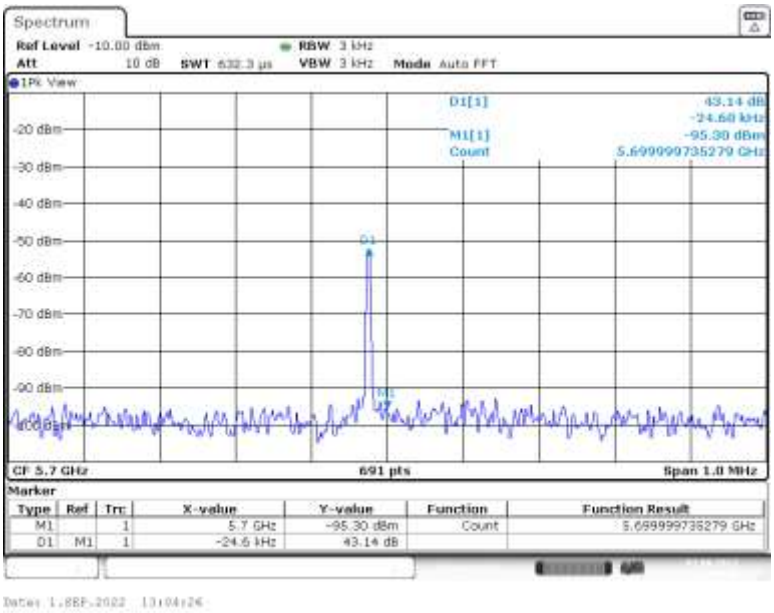


802.11ac20, 5500MHz, Antenna 0

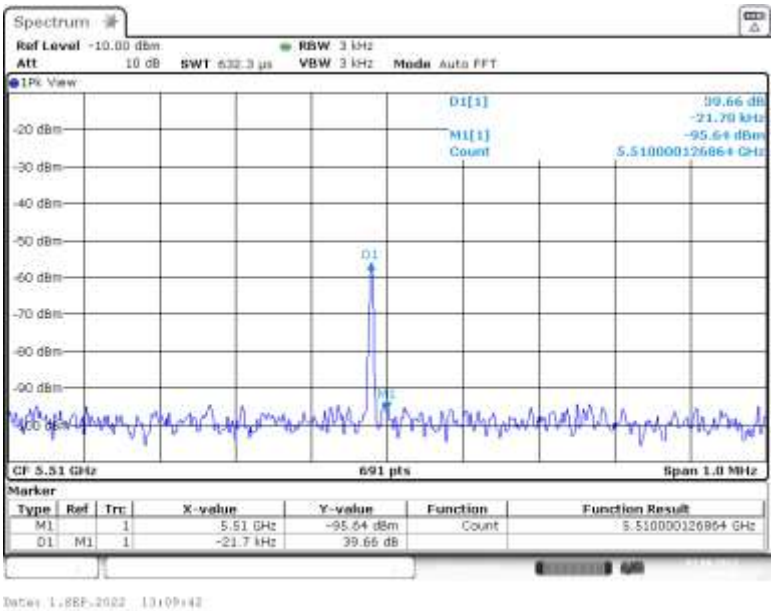


802.11ac20, 5600MHz, Antenna 0

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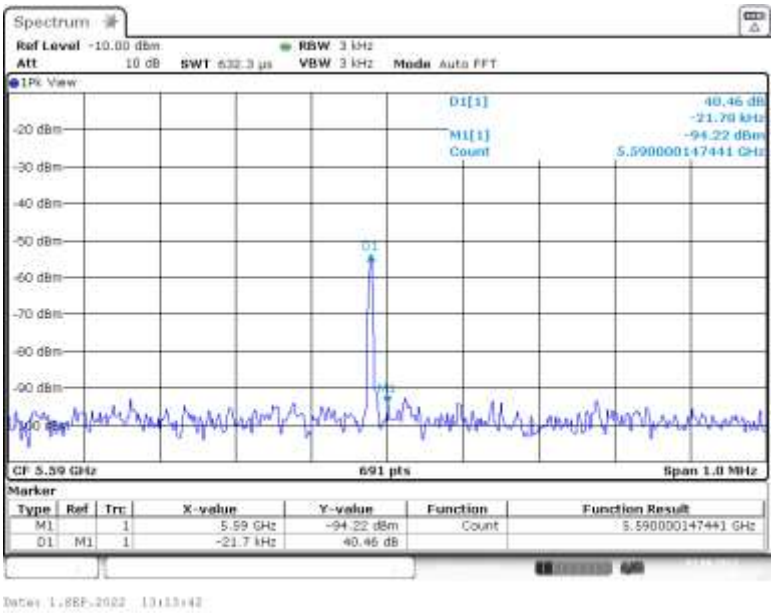


802.11ac20, 5700MHz, Antenna 0

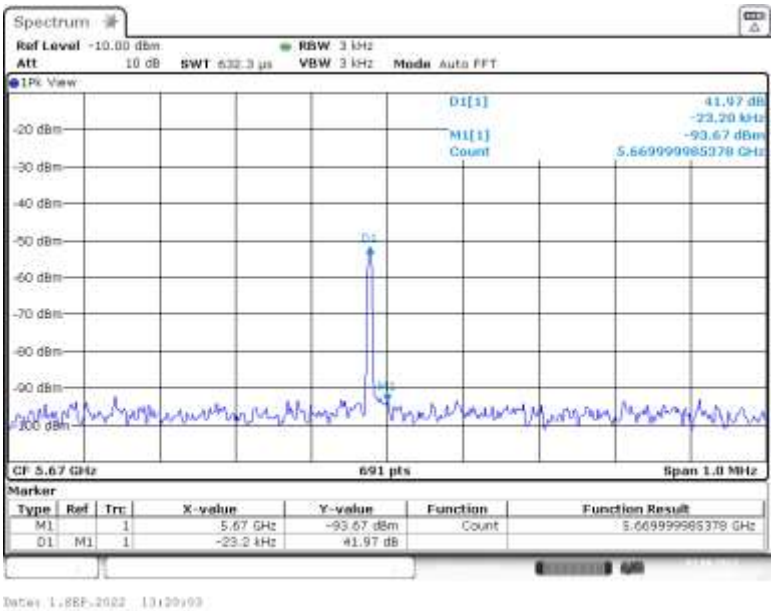


802.11n40, 5510MHz, Antenna 0

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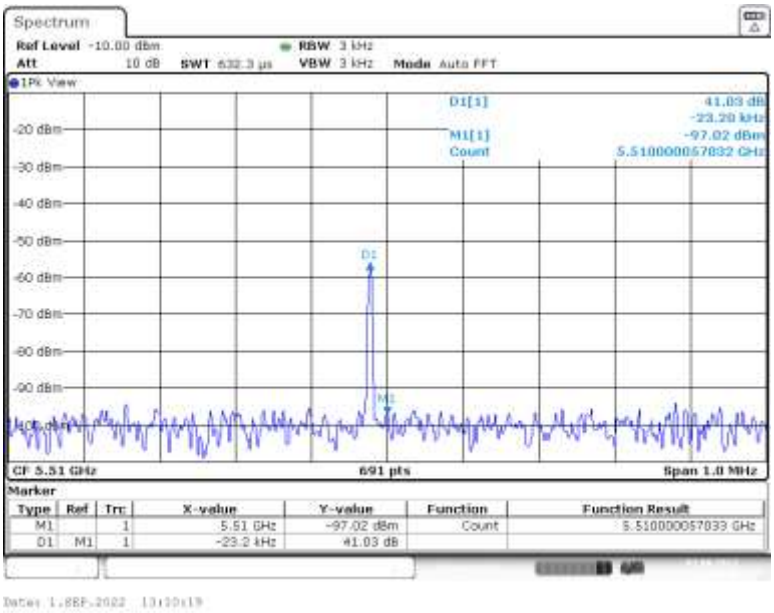


802.11n40, 5590MHz, Antenna 0

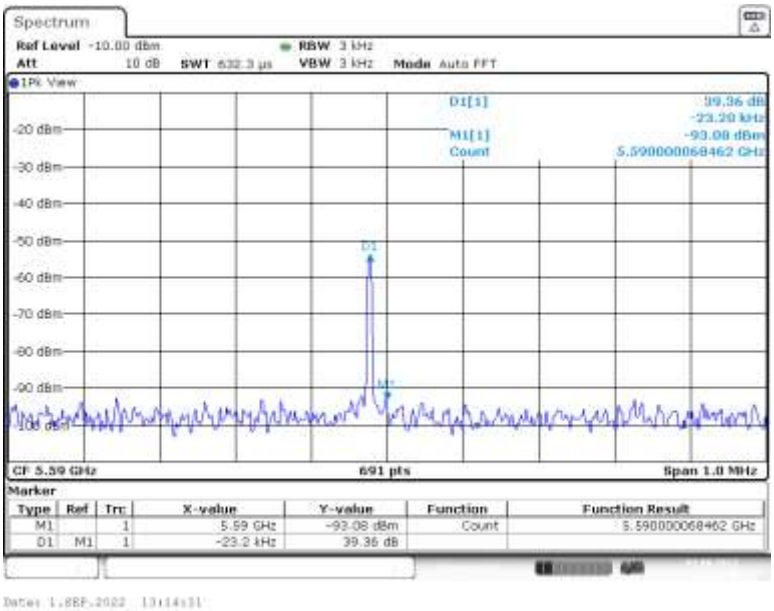


802.11n40, 5670MHz, Antenna 0

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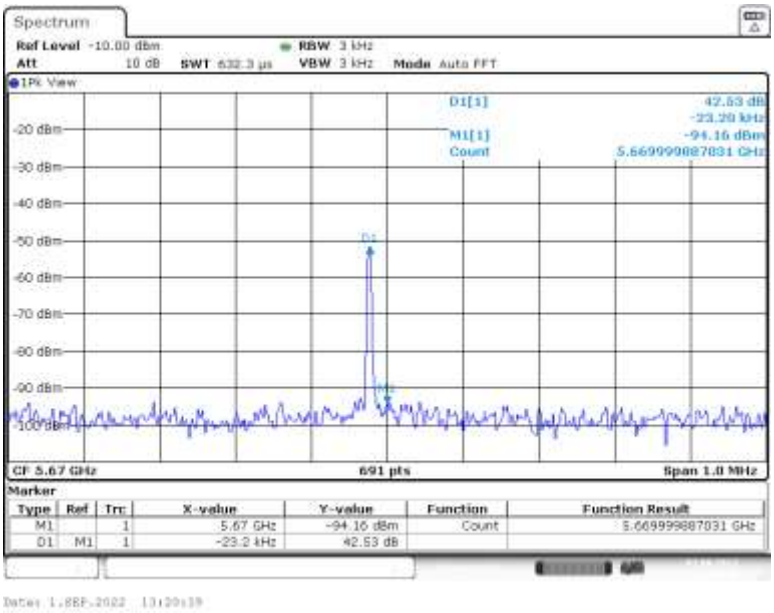


802.11ac40, 5510MHz, Antenna 0

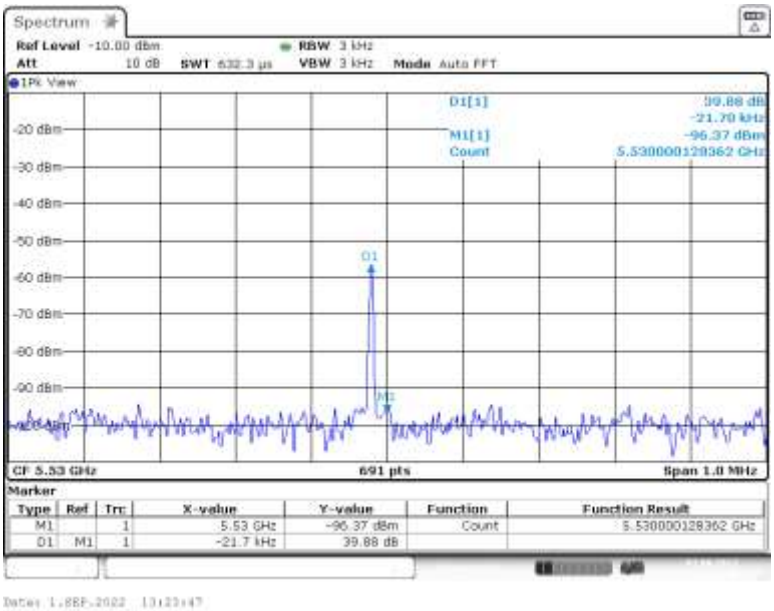


802.11ac40, 5590MHz, Antenna 0

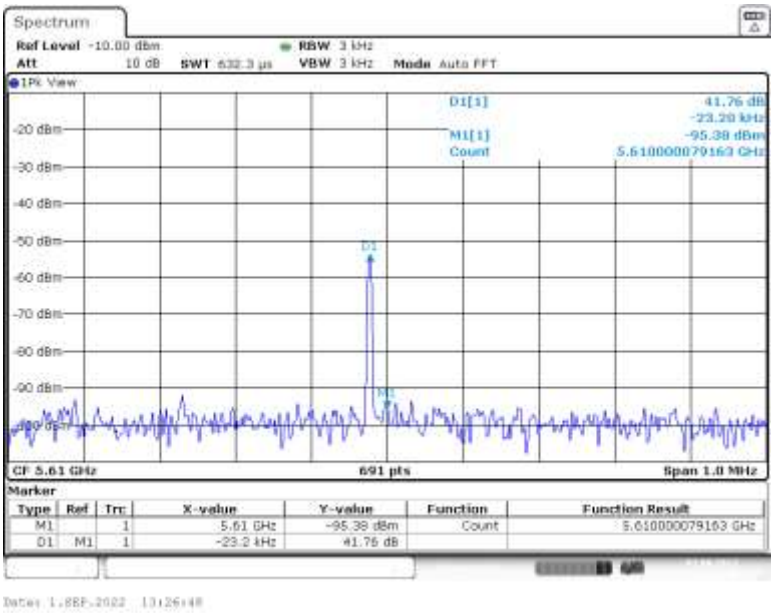
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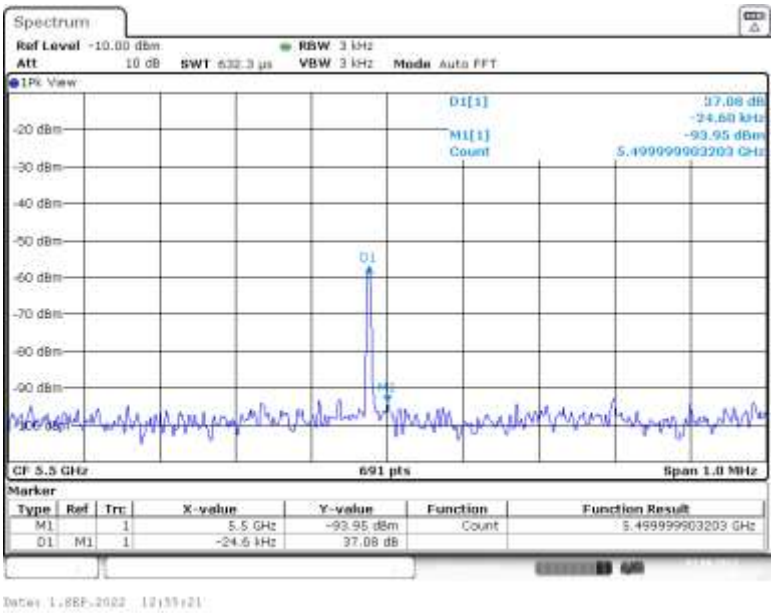
802.11ac40, 5670MHz, Antenna 0



802.11ac80, 5530MHz, Antenna 0

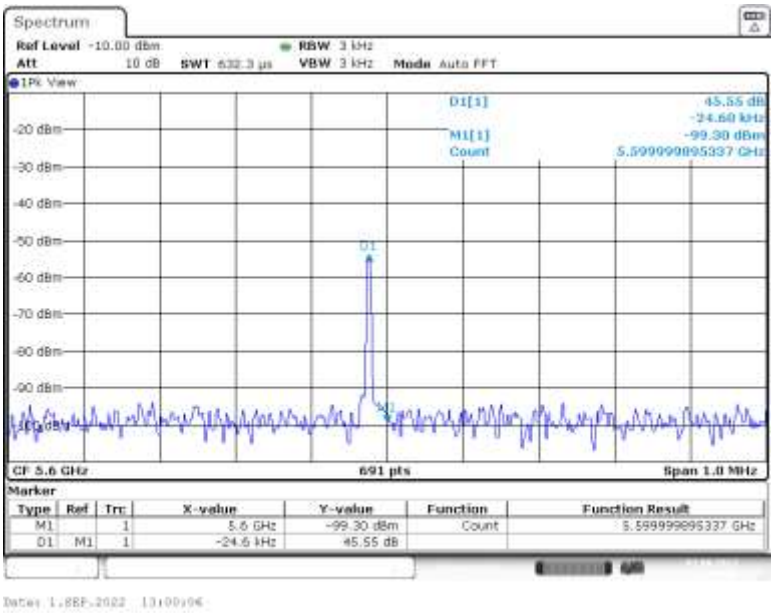


802.11ac80, 5610MHz, Antenna 0

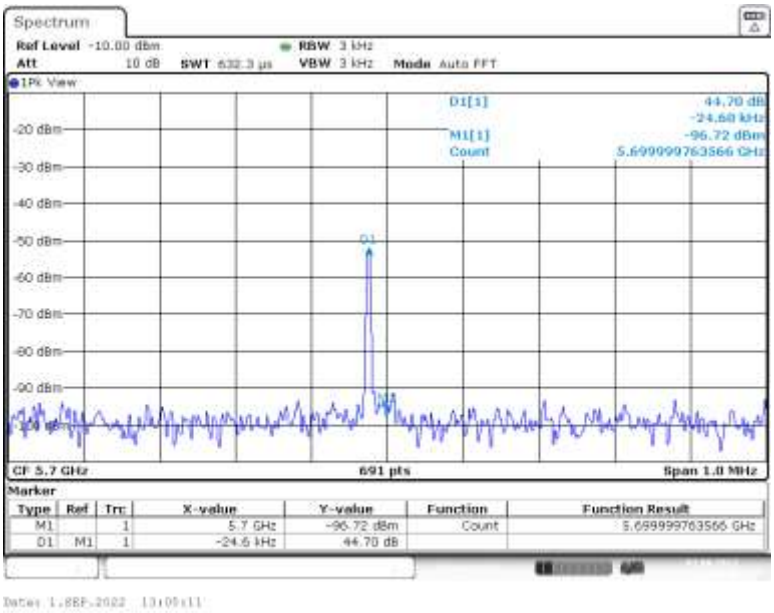


802.11a, 5500MHz, Antenna 1

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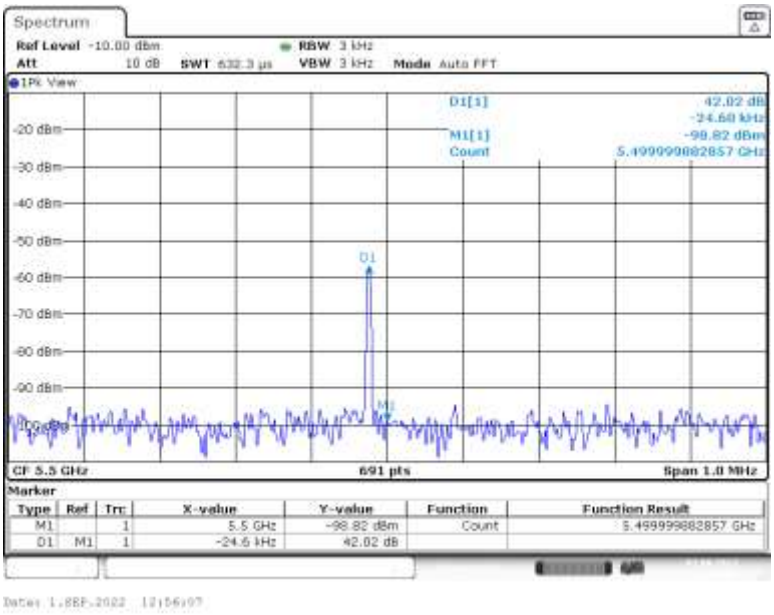


802.11a, 5600MHz, Antenna 1

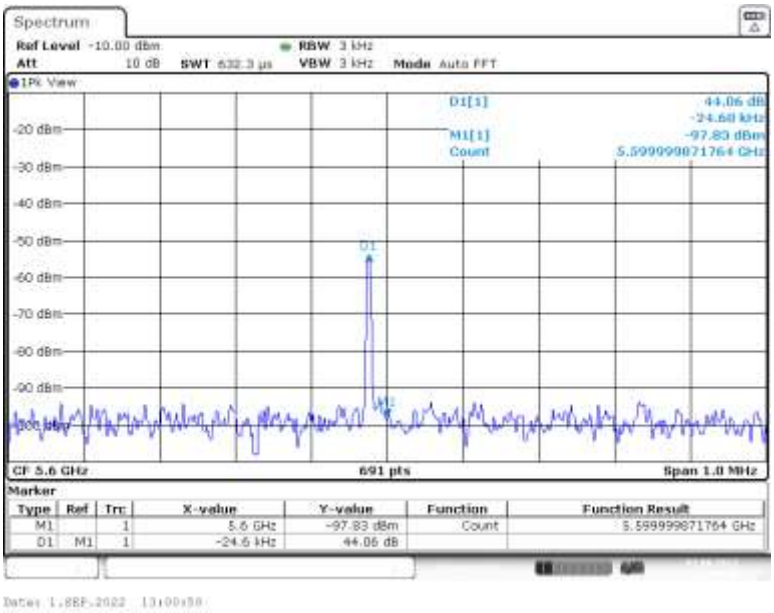


802.11a, 5700MHz, Antenna 1

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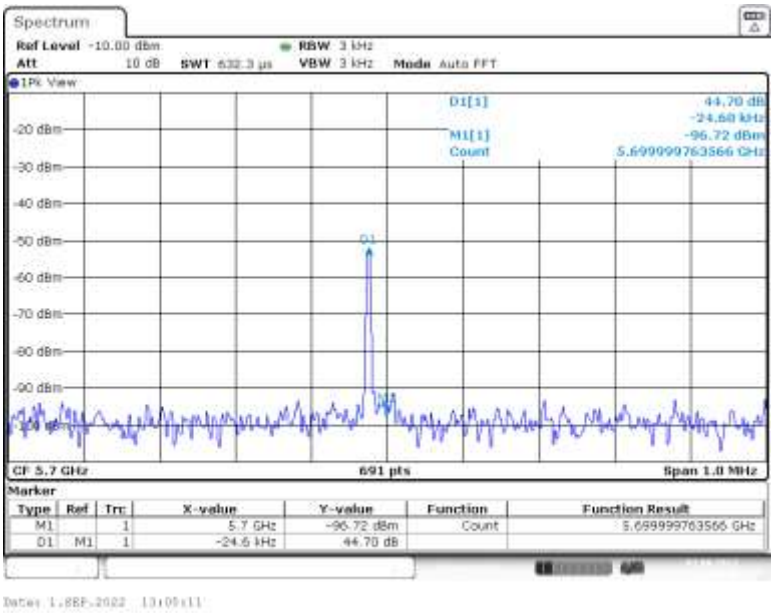


802.11n20, 5500MHz, Antenna 1

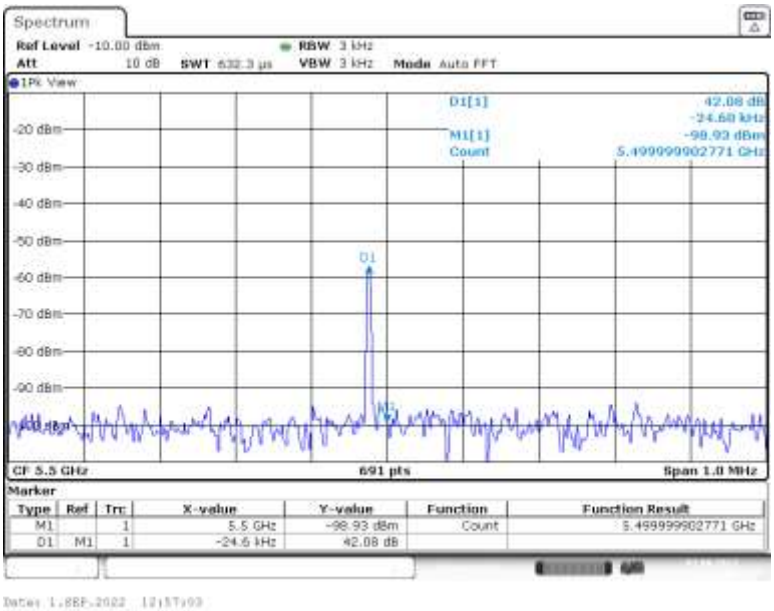


802.11n20, 5600MHz, Antenna 1

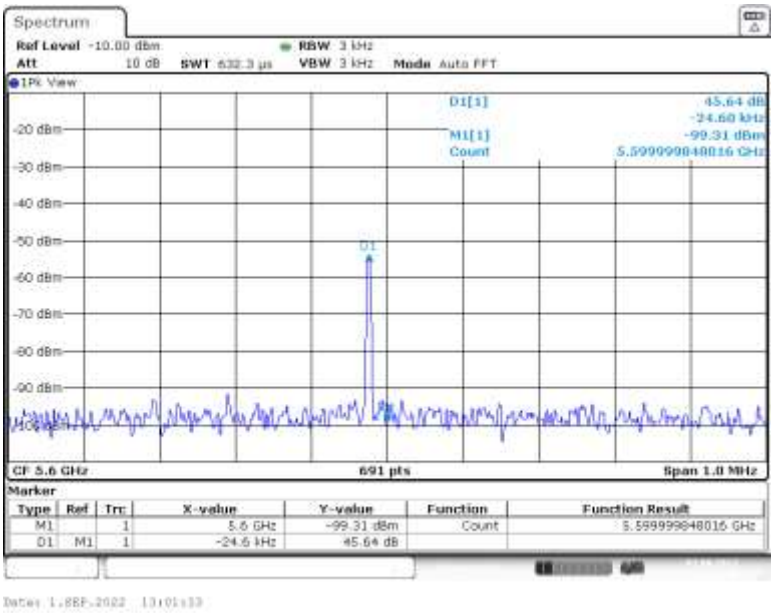
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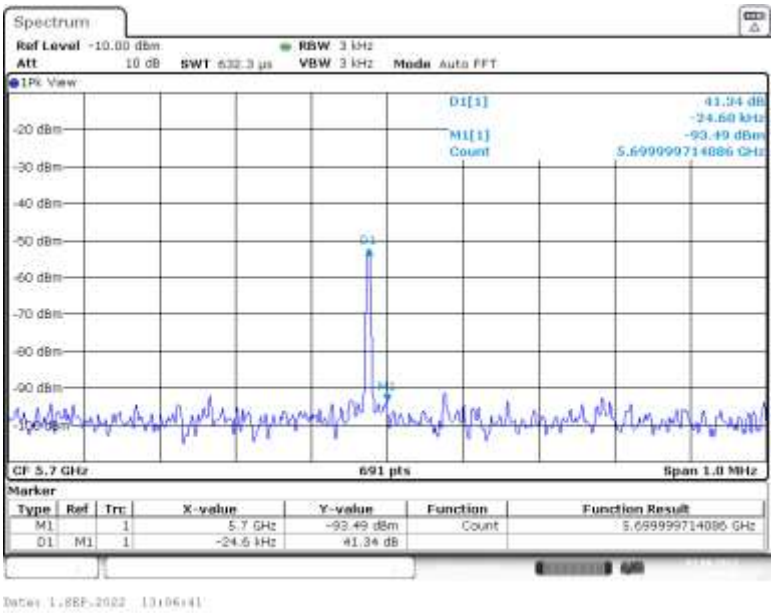
802.11n20, 5700MHz, Antenna 1



802.11ac20, 5500MHz, Antenna 1

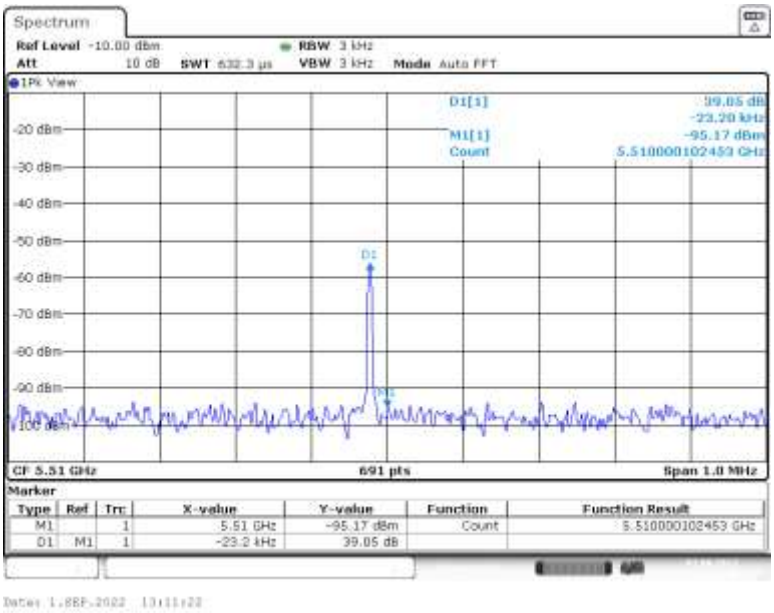


802.11ac20, 5600MHz, Antenna 1

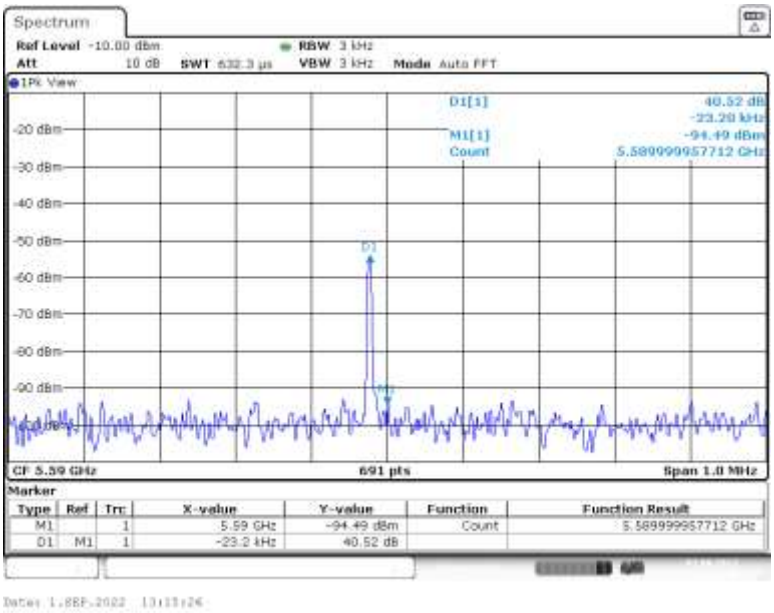


802.11ac20, 5700MHz, Antenna 1

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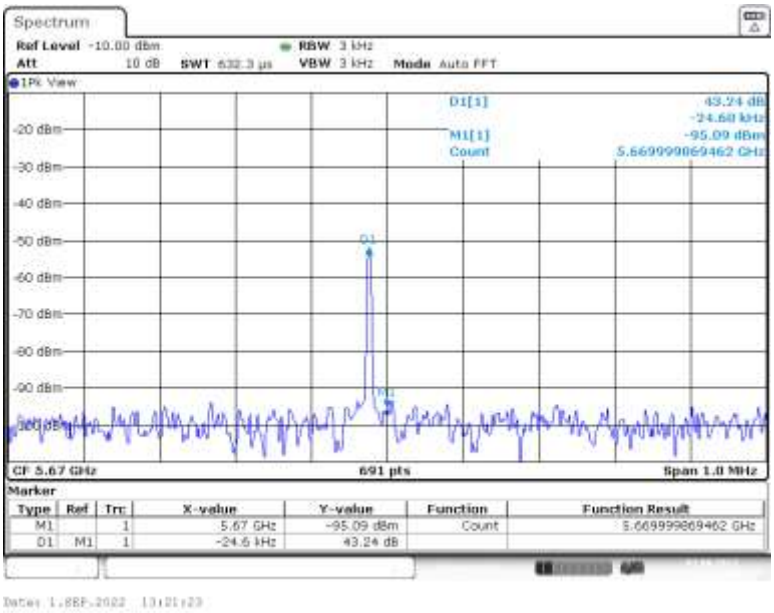


802.11n40, 5510MHz, Antenna 1

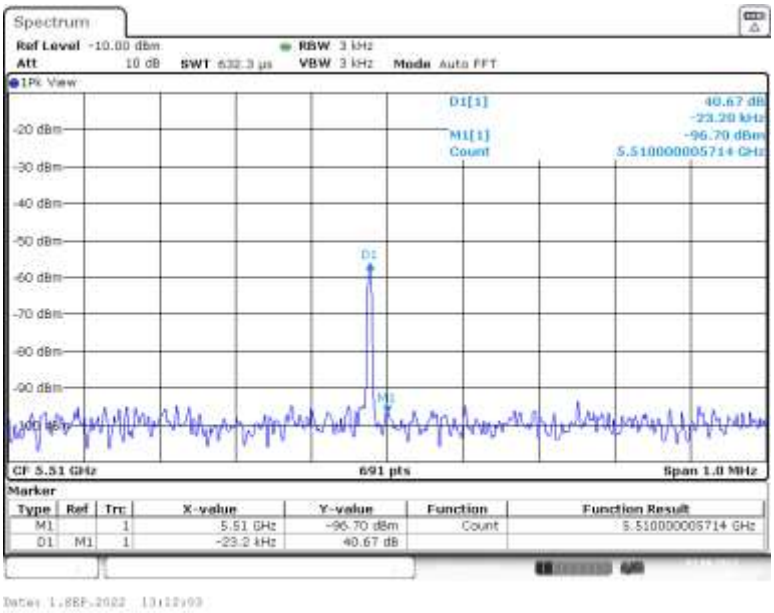


802.11n40, 5590MHz, Antenna 1

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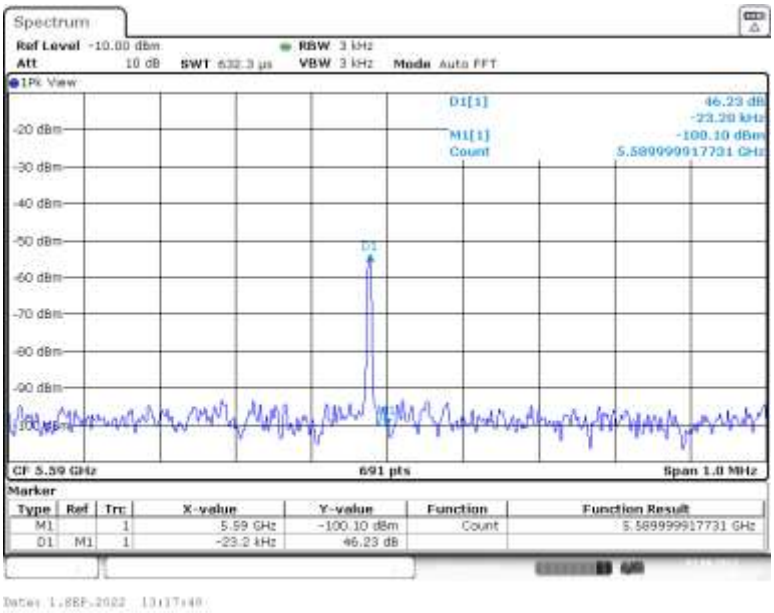


802.11n40, 5670MHz, Antenna 1

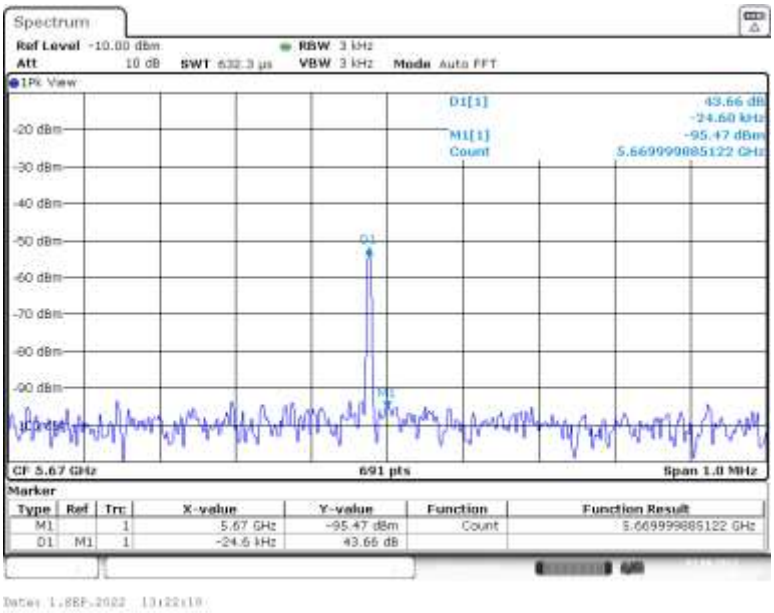


802.11ac40, 5510MHz, Antenna 1

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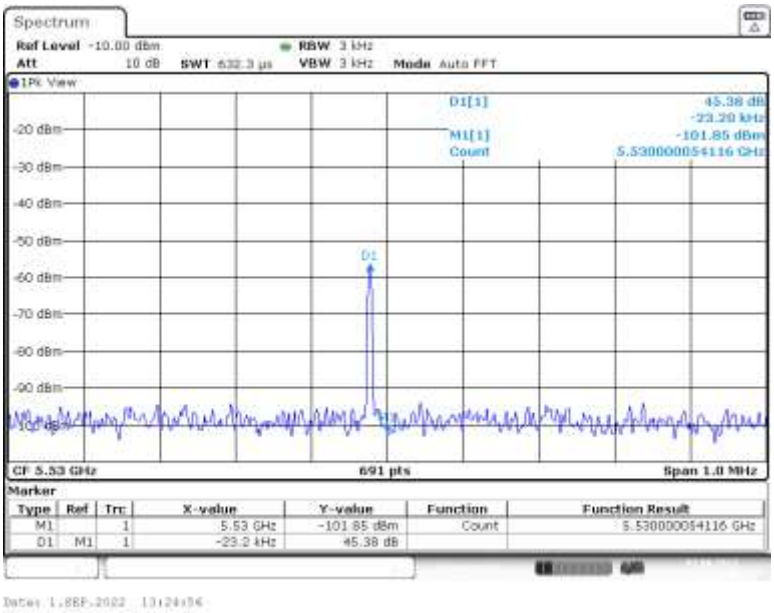


802.11ac40, 5590MHz, Antenna 1

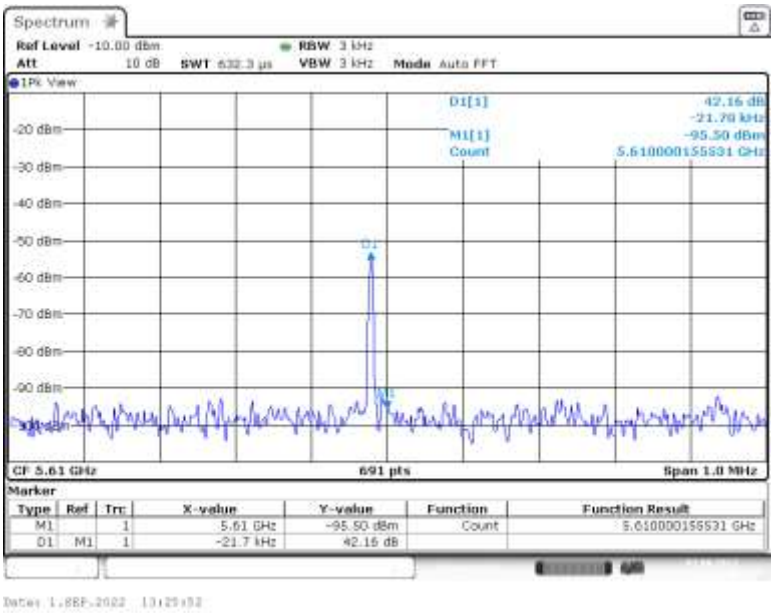


802.11ac40, 5670MHz, Antenna 1

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802.11ac80, 5530MHz, Antenna 1



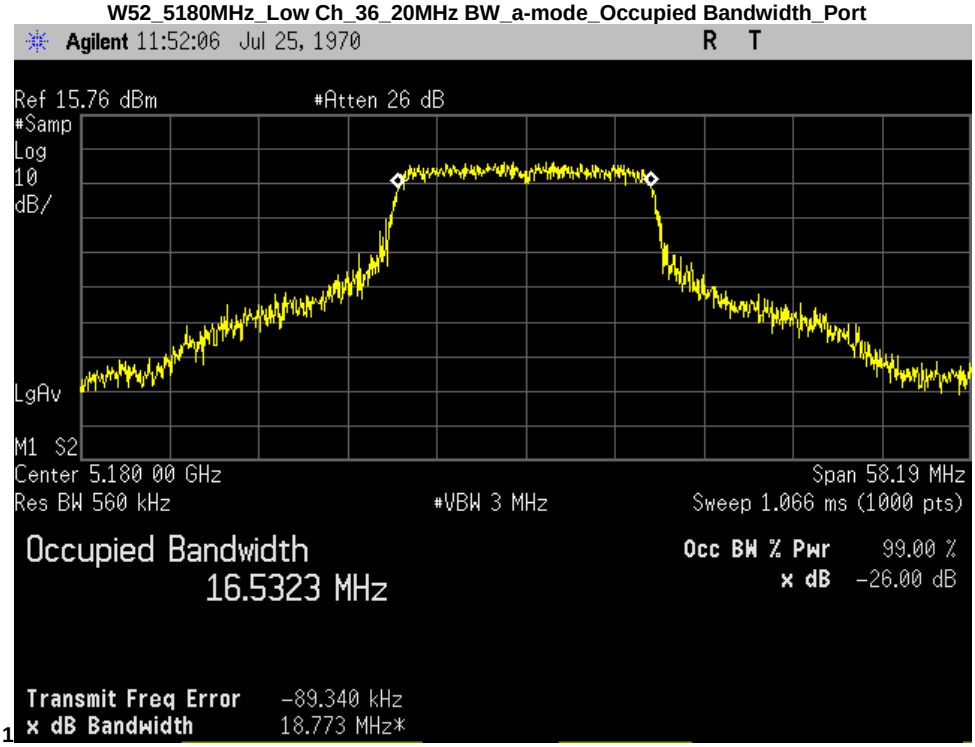
802.11ac80, 5610MHz, Antenna 1

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Occupied Bandwidth Plots (W52 Band)

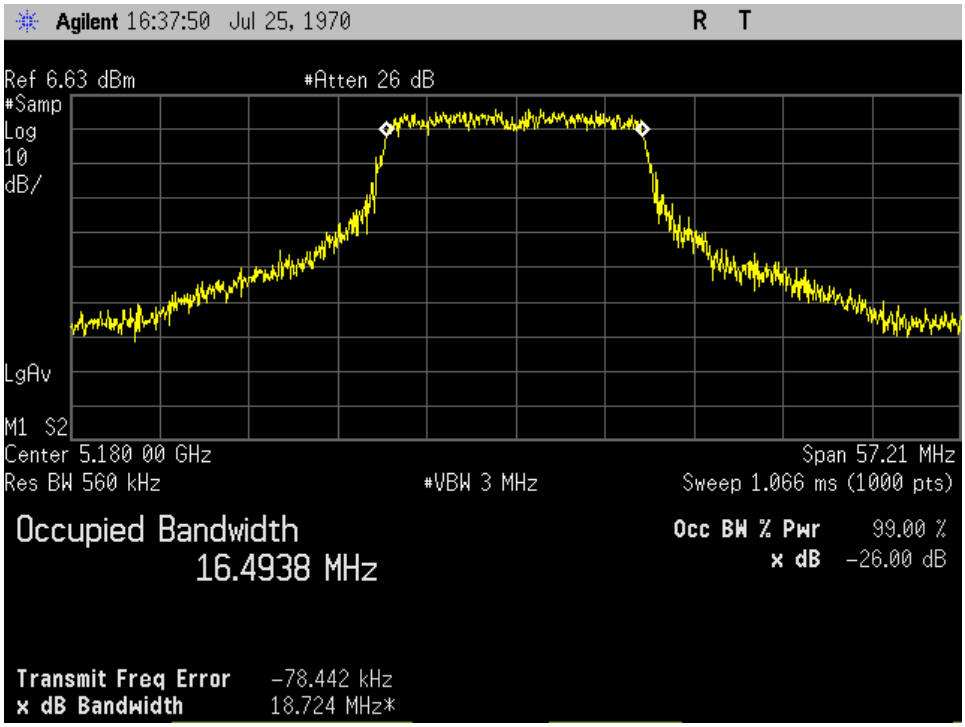
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W52_5180MHz_Low Ch_36_20MHz BW_a-mode_Occupied Bandwidth_Port



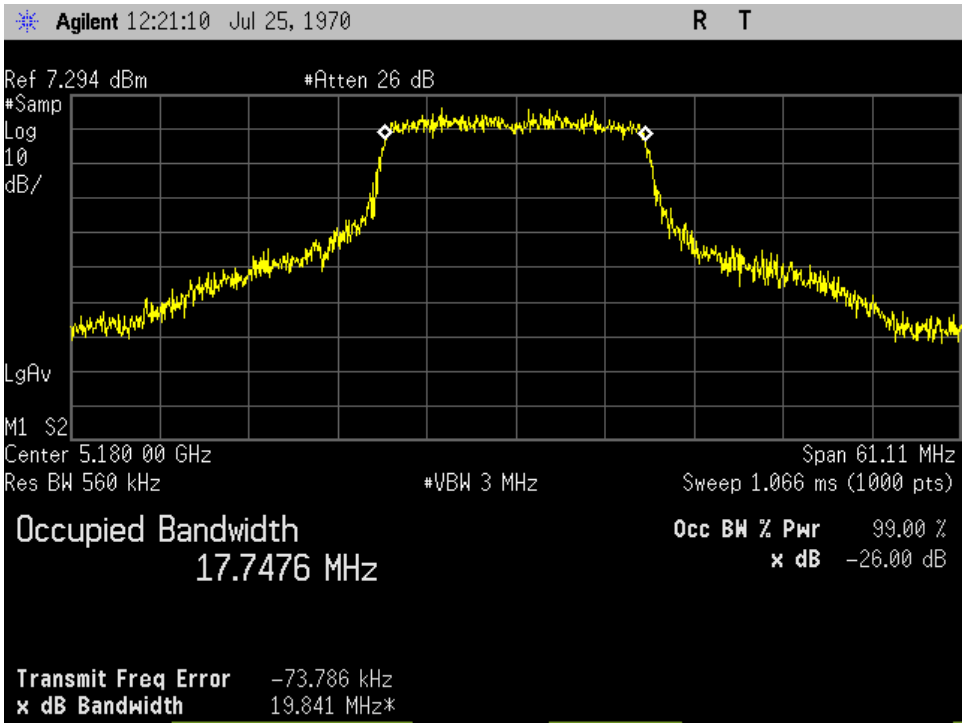
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W52_5180MHz_Low Ch_36_20MHz BW_a-mode_Occupied Bandwidth_Port 2

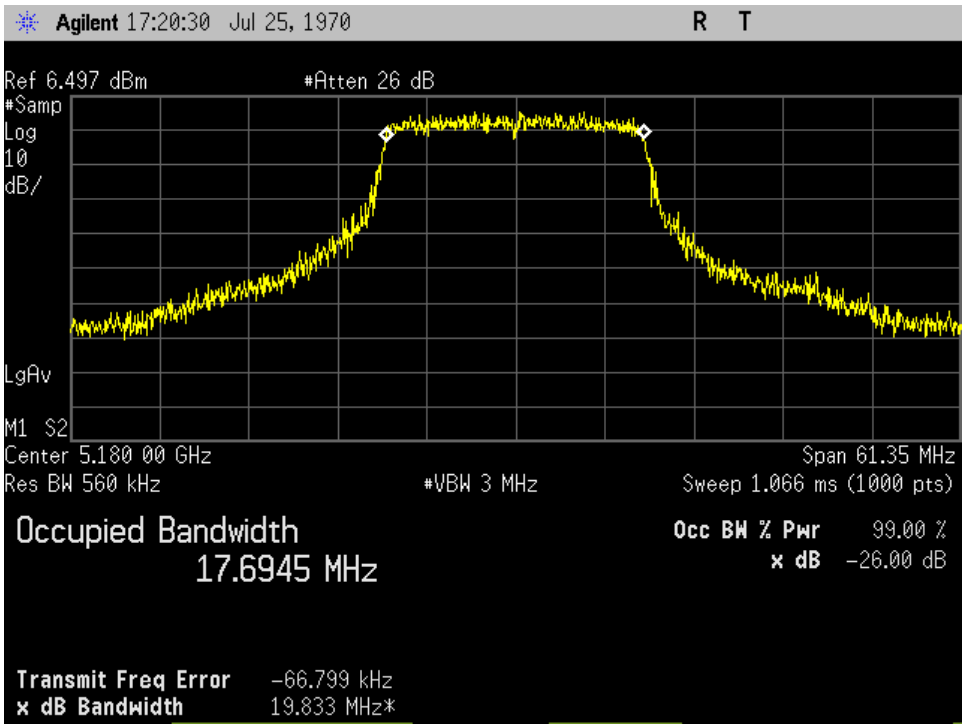


 © 2023, Eurofins MET Labs

W52_5180MHz_Low Ch_36_20MHz BW_n-mode_Occupied Bandwidth_Port 1

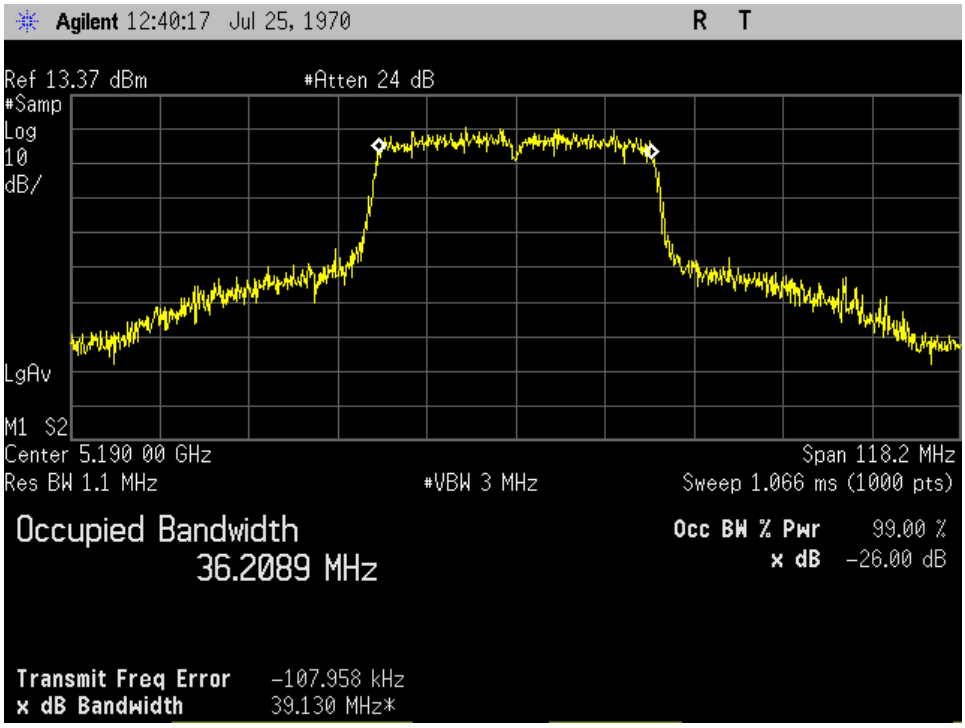


W52_5180MHz_Low Ch_36_20MHz BW_n-mode_Occupied Bandwidth_Port 2

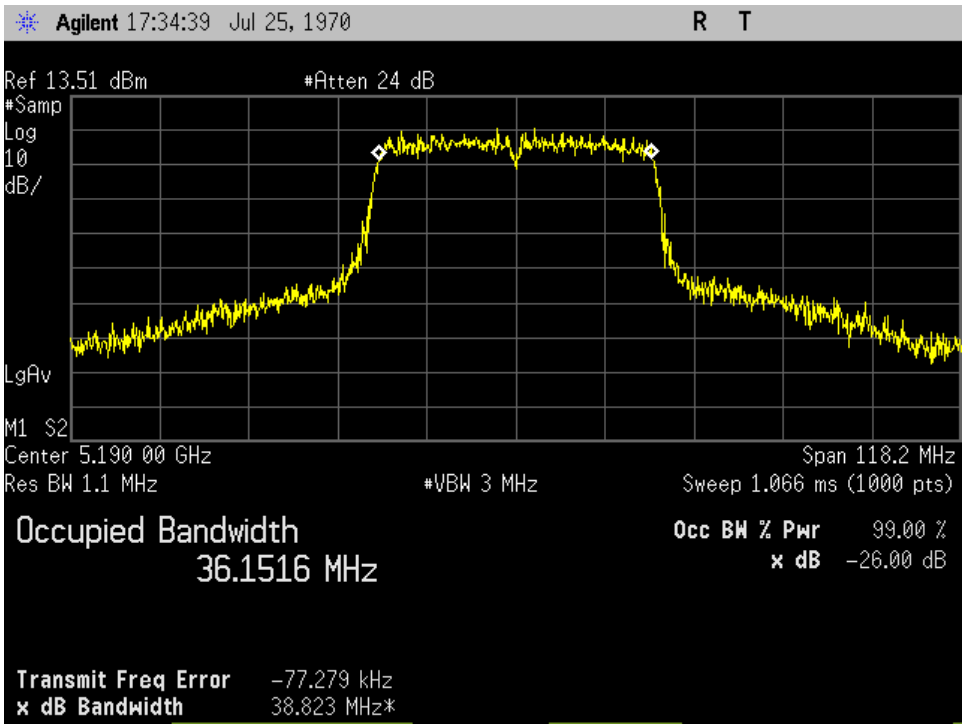


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W52_5190MHz_Low Ch_38_40MHz BW_n-mode_Occupied Bandwidth_Port 1

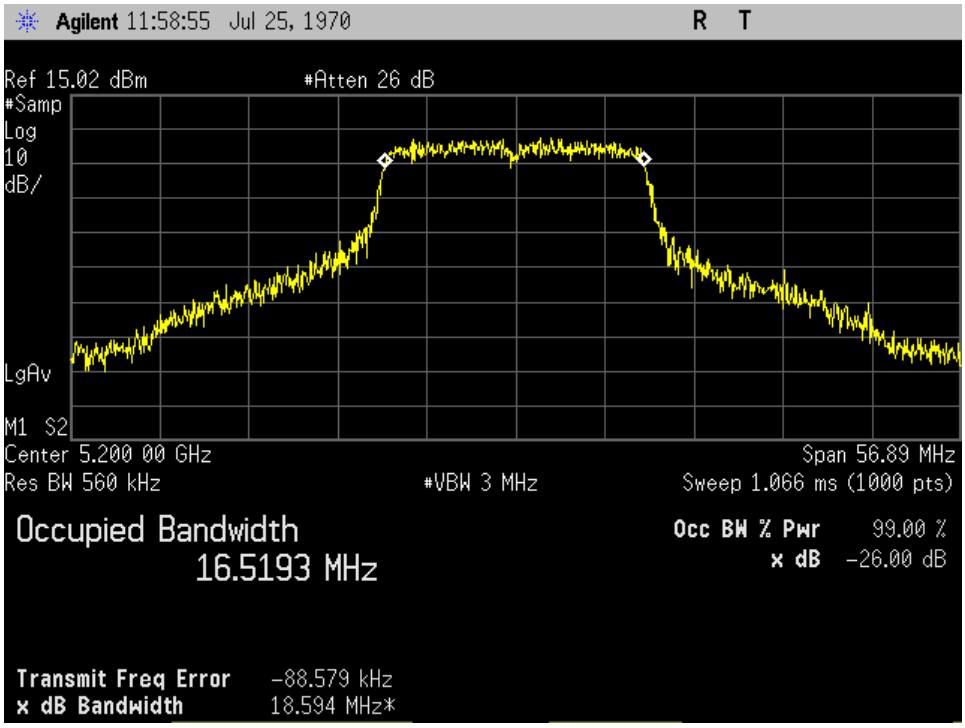


W52_5190MHz_Low Ch_38_40MHz BW_n-mode_Occupied Bandwidth_Port 2

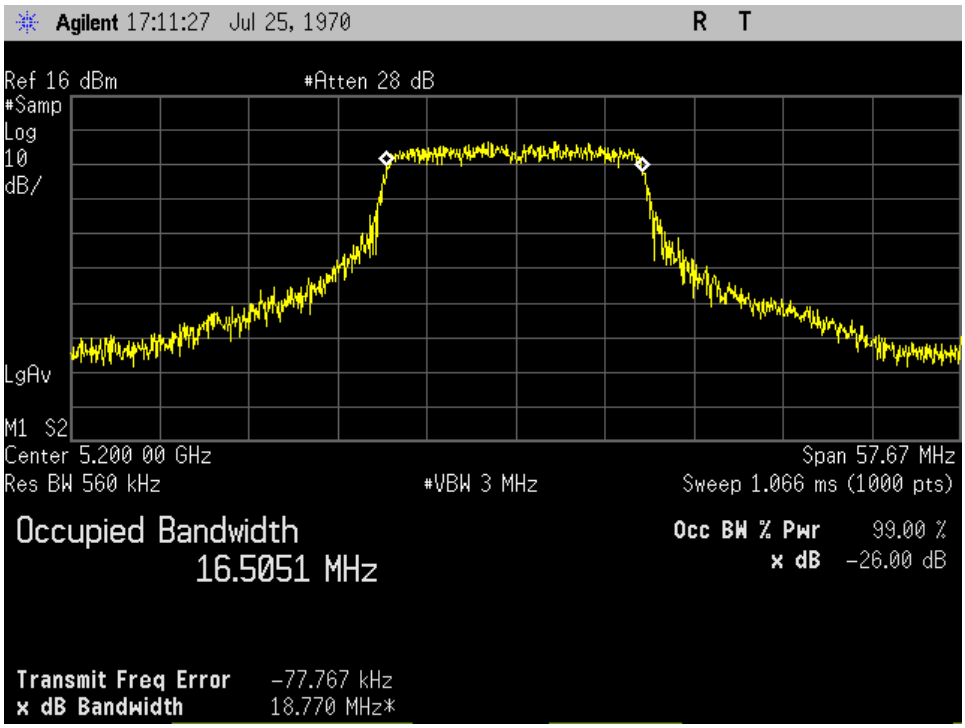


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W52_5200MHz_low_mid Ch_40_20MHz BW_a-mode_Occupied Bandwidth_Port 1

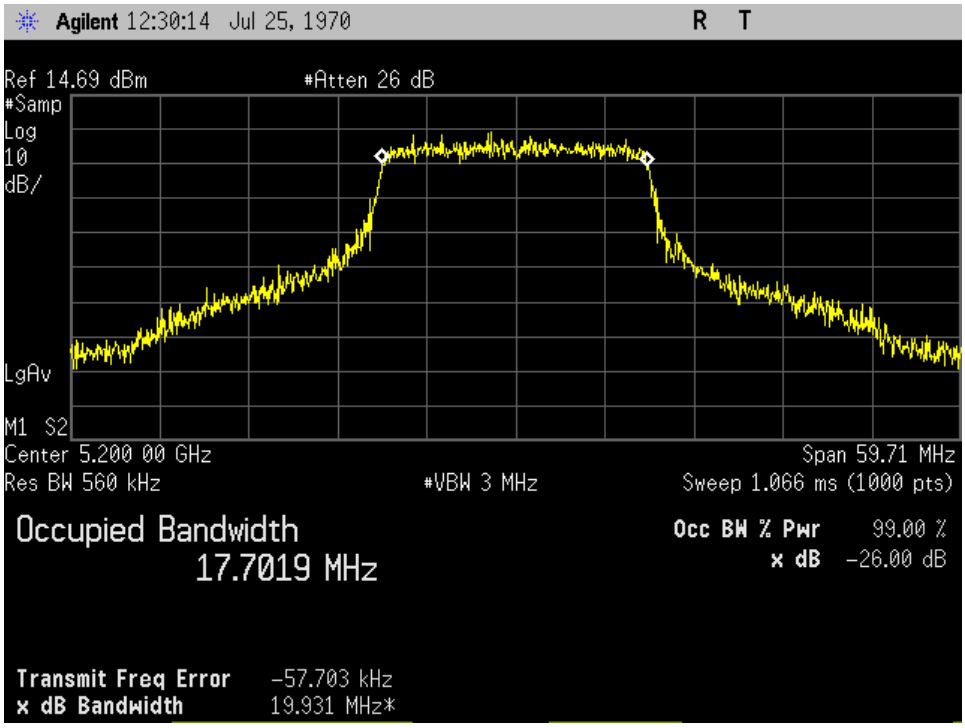


W52_5200MHz_low_mid Ch_40_20MHz BW_a-mode_Occupied Bandwidth_Port 2

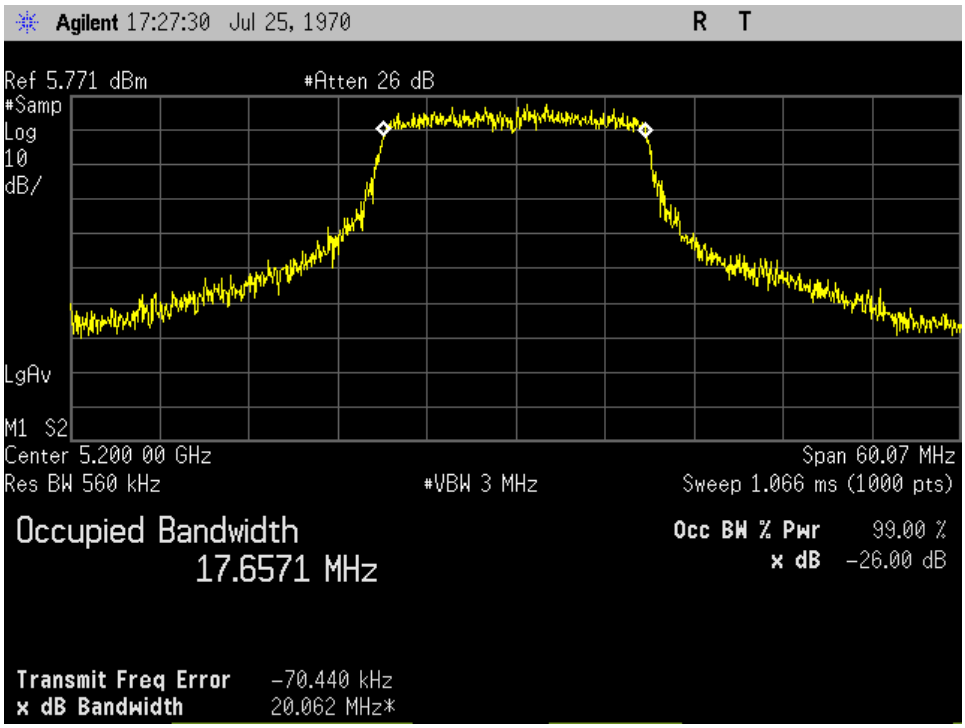


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W52_5200MHz_low_mid Ch_40_20MHz BW_n-mode_Occupied Bandwidth_Port 1

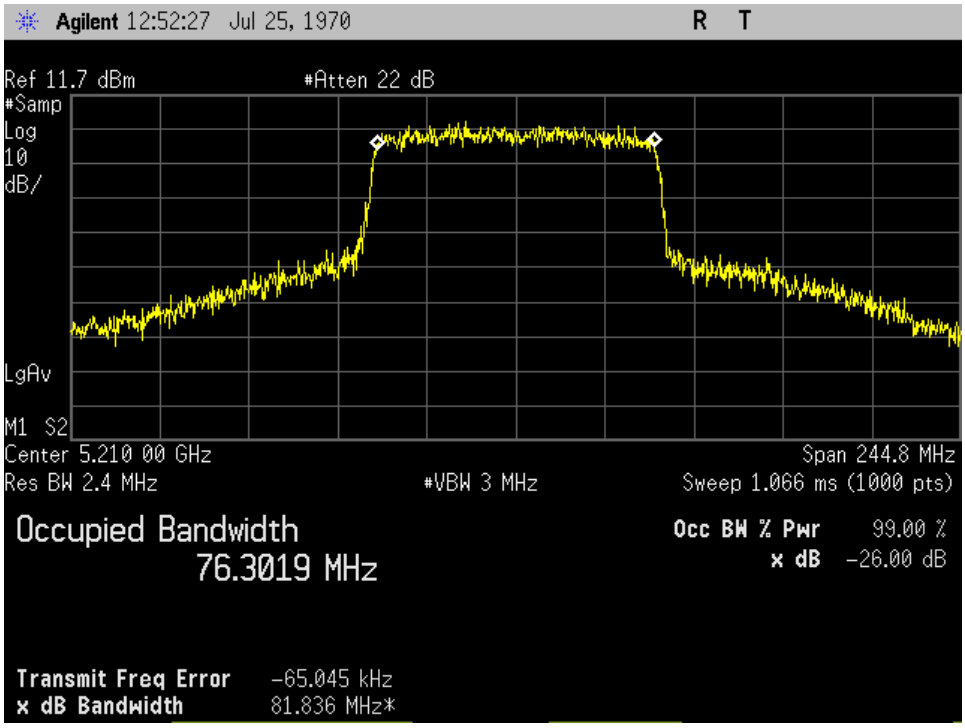


W52_5200MHz_low_mid Ch_40_20MHz BW_n-mode_Occupied Bandwidth_Port 2

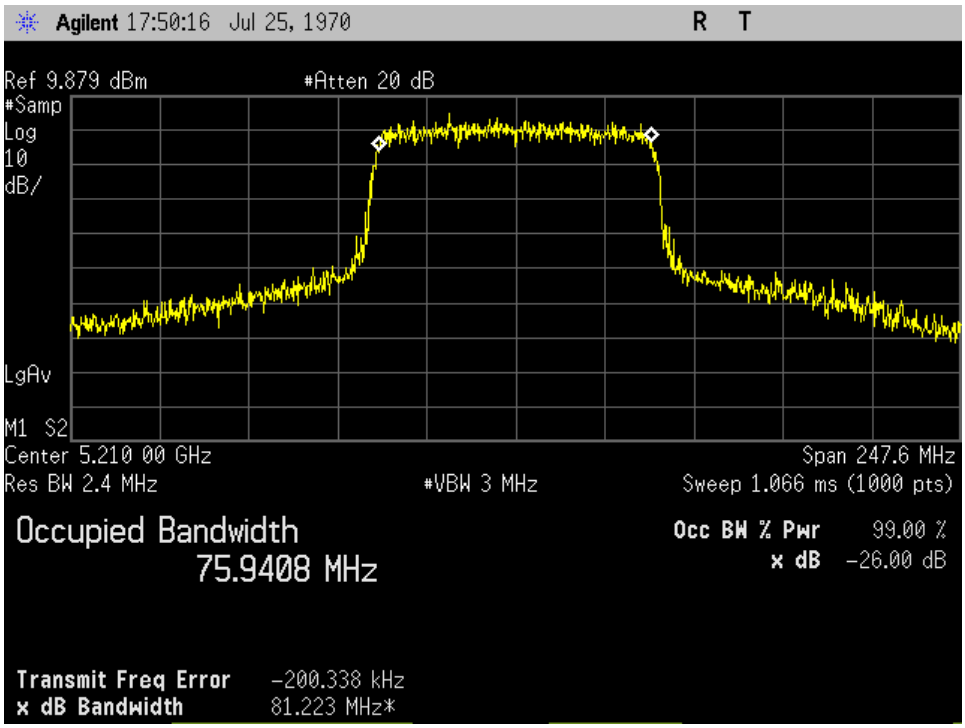


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W52_5210MHz_Low mid Ch_42_80MHz BW_ac-mode_Occupied Bandwidth_Port 1

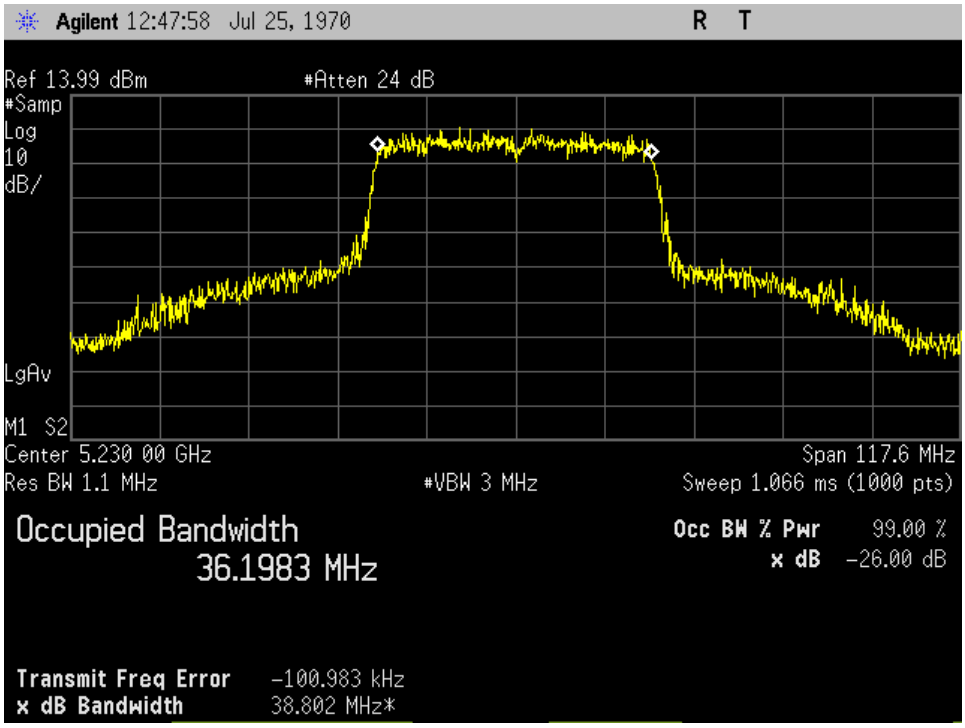


W52_5210MHz_Low mid Ch_42_80MHz BW_ac-mode_Occupied Bandwidth_Port 2

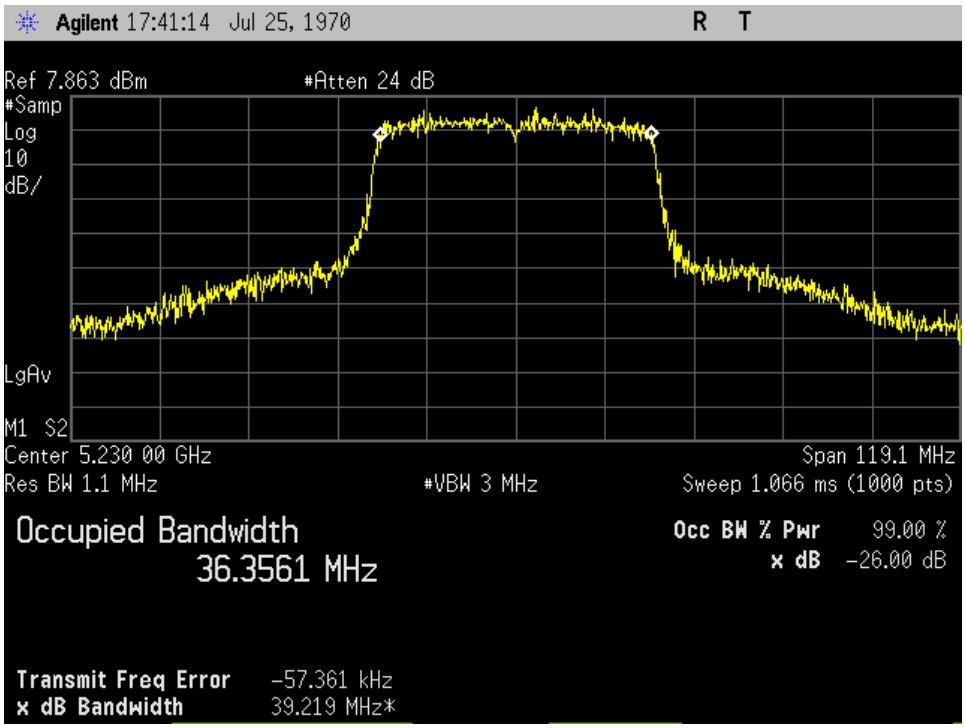


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W52_5230MHz_high_mid Ch_46_40MHz BW_n-mode_Occupied Bandwidth_Port 1

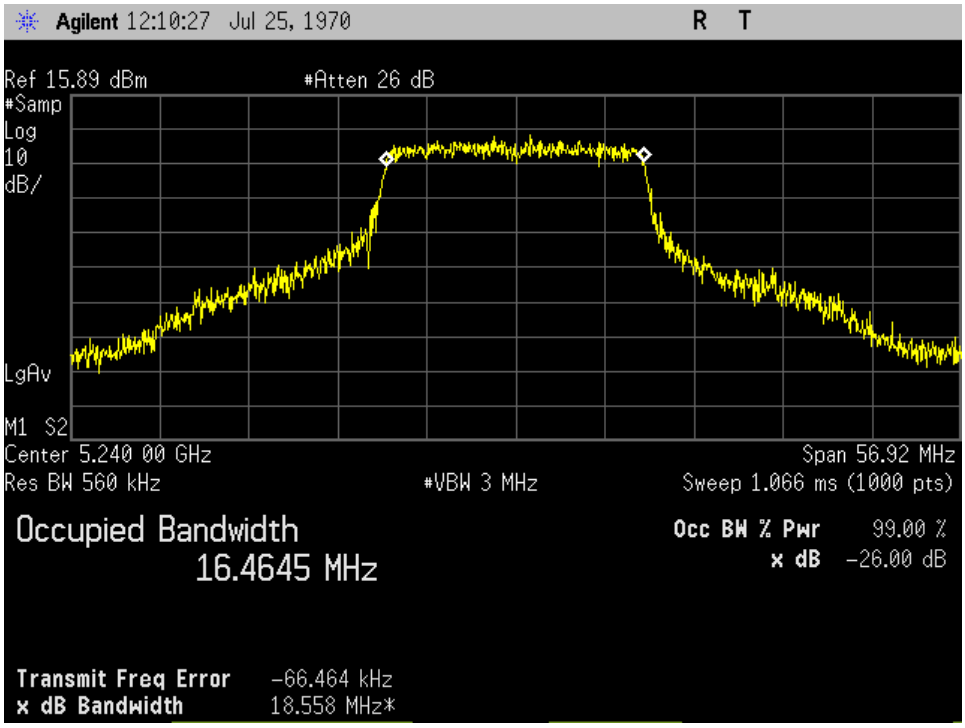


W52_5230MHz_high_mid Ch_46_40MHz BW_n-mode_Occupied Bandwidth_Port 2

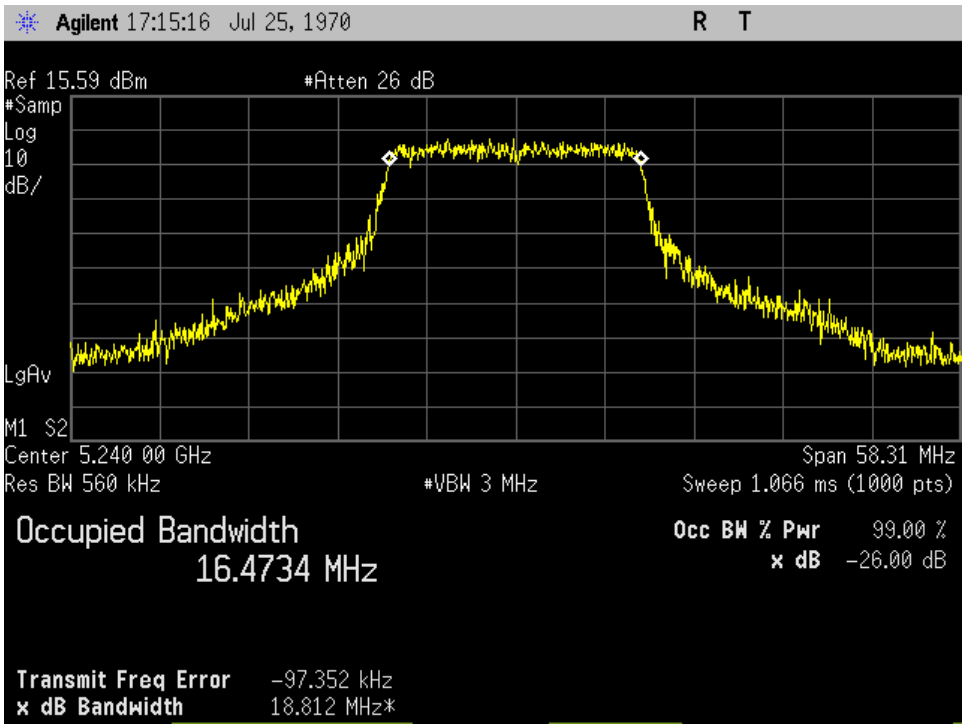


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W52_5240MHz_high_mid Ch_48_20MHz BW_a-mode_Occupied Bandwidth_Port 1

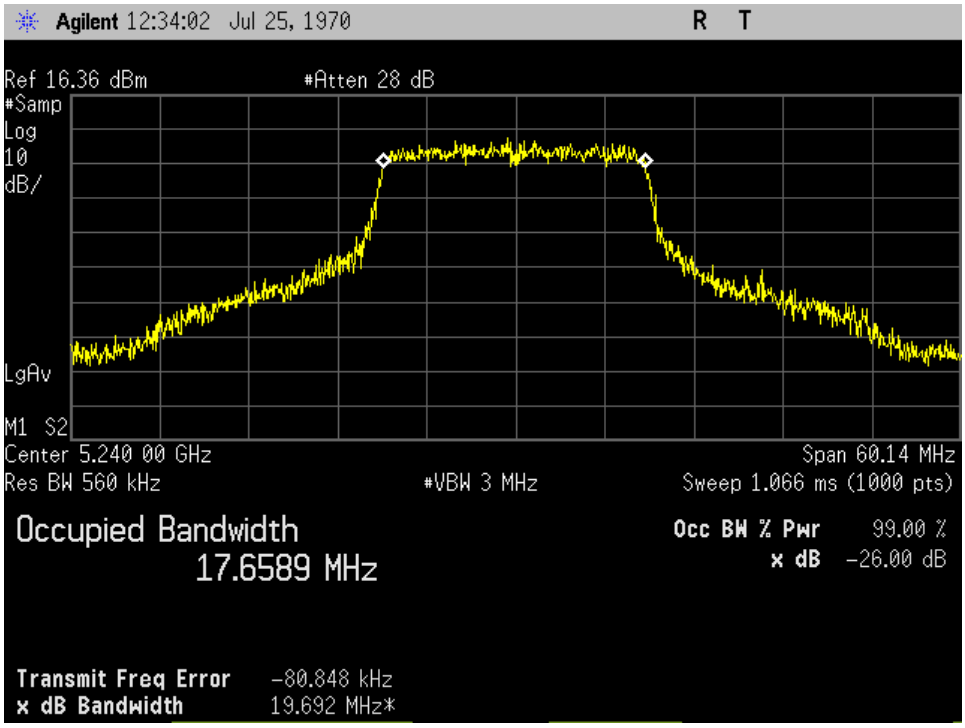


W52_5240MHz_high_mid Ch_48_20MHz BW_a-mode_Occupied Bandwidth_Port 2

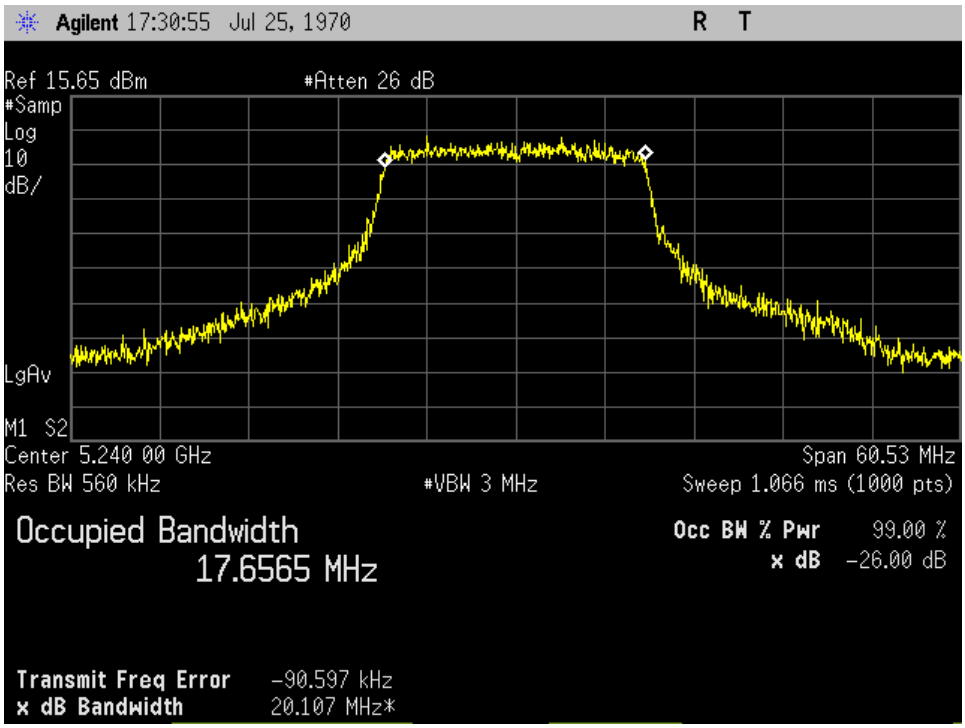


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W52_5240MHz_high_mid Ch_48_20MHz BW_n-mode_Occupied Bandwidth_Port 1

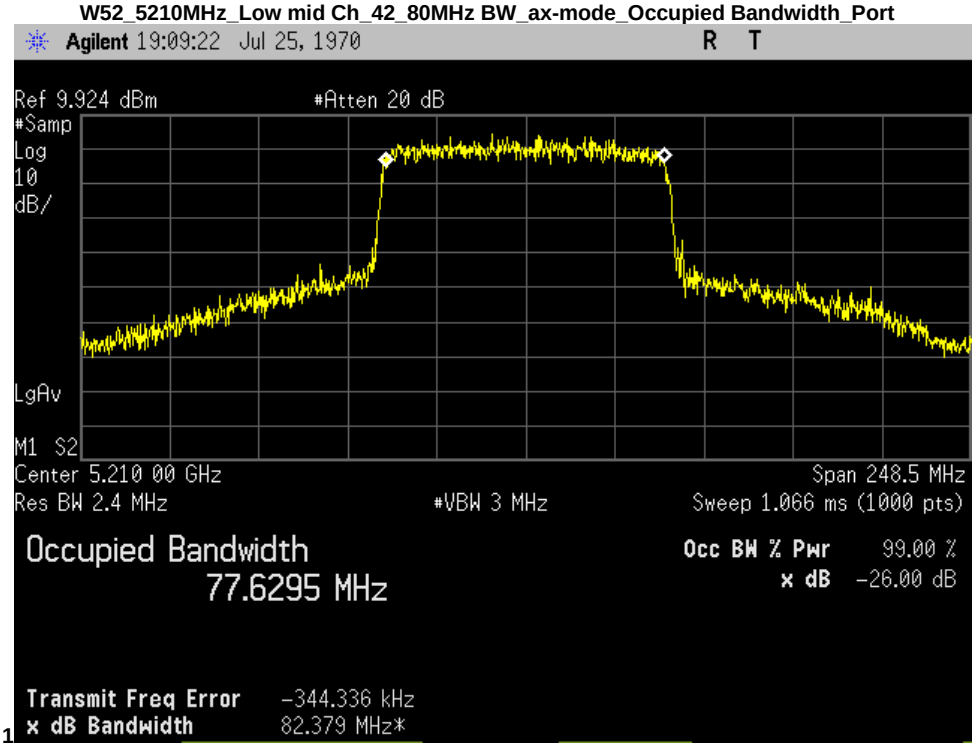


W52_5240MHz_high_mid Ch_48_20MHz BW_n-mode_Occupied Bandwidth_Port 2

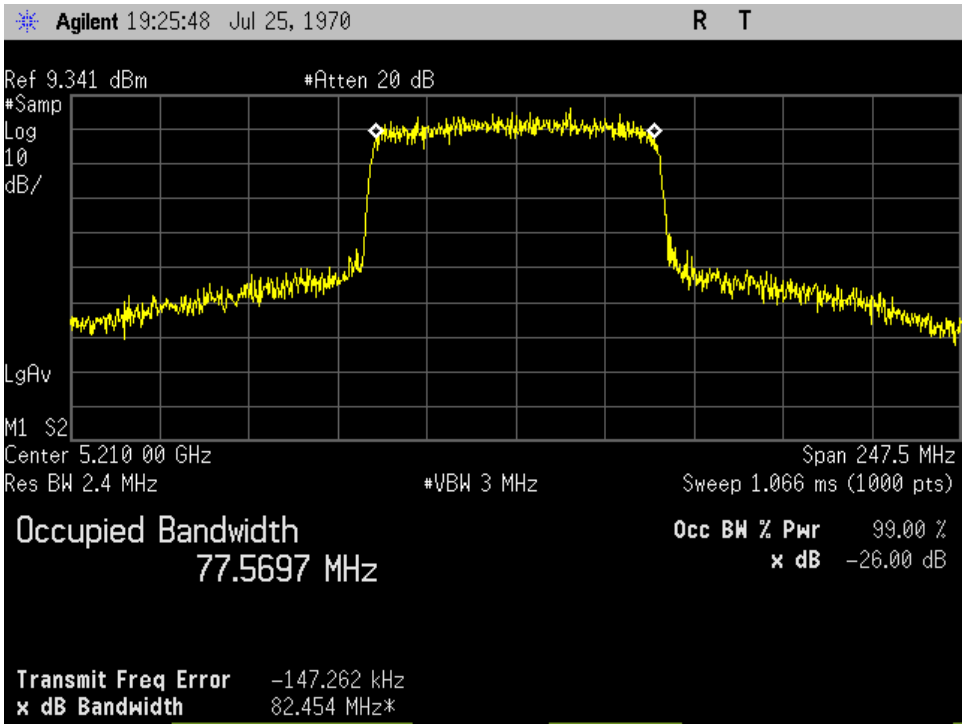


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W52_5210MHz_Low mid Ch_42_80MHz BW_ax-mode_Occupied Bandwidth_Port 1



W52_5210MHz_Low mid Ch_42_80MHz BW_ax-mode_Occupied Bandwidth_Port 2

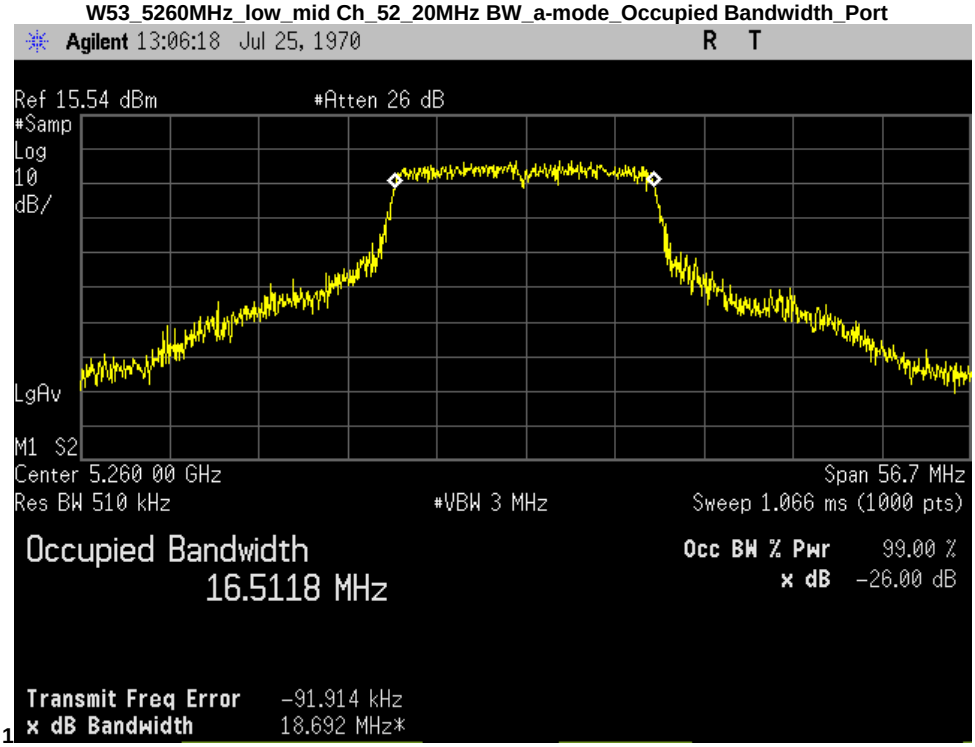


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Occupied Bandwidth Plots (W53 Band)

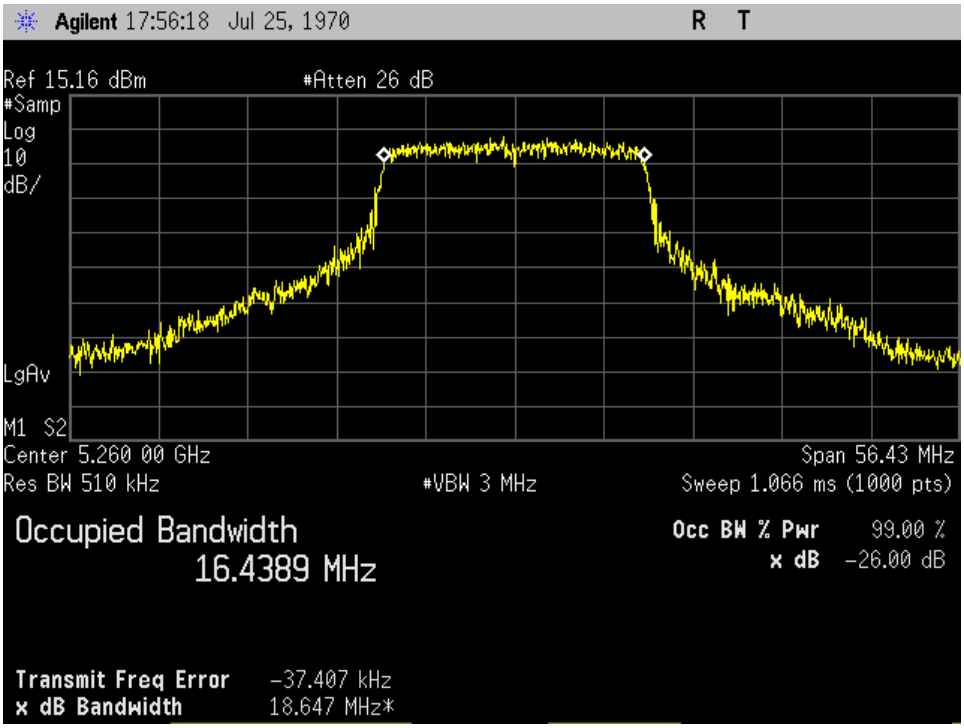
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W53_5260MHz_low_mid Ch_52_20MHz BW_a-mode_Occupied Bandwidth_Port



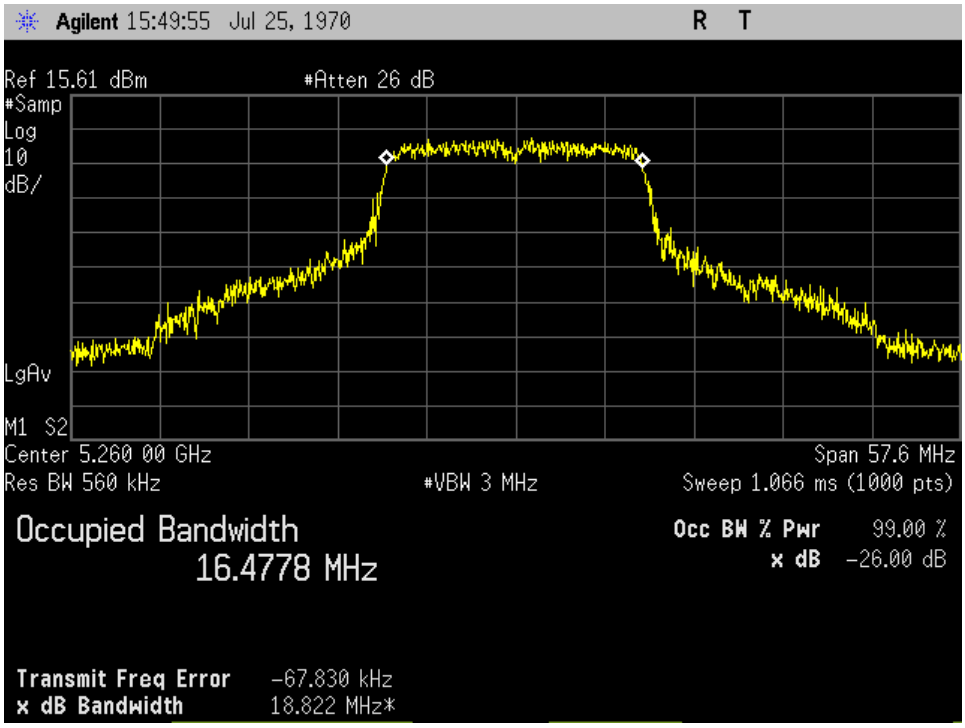
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W53_5260MHz_low_mid Ch_52_20MHz BW_a-mode_Occupied Bandwidth_Port 2

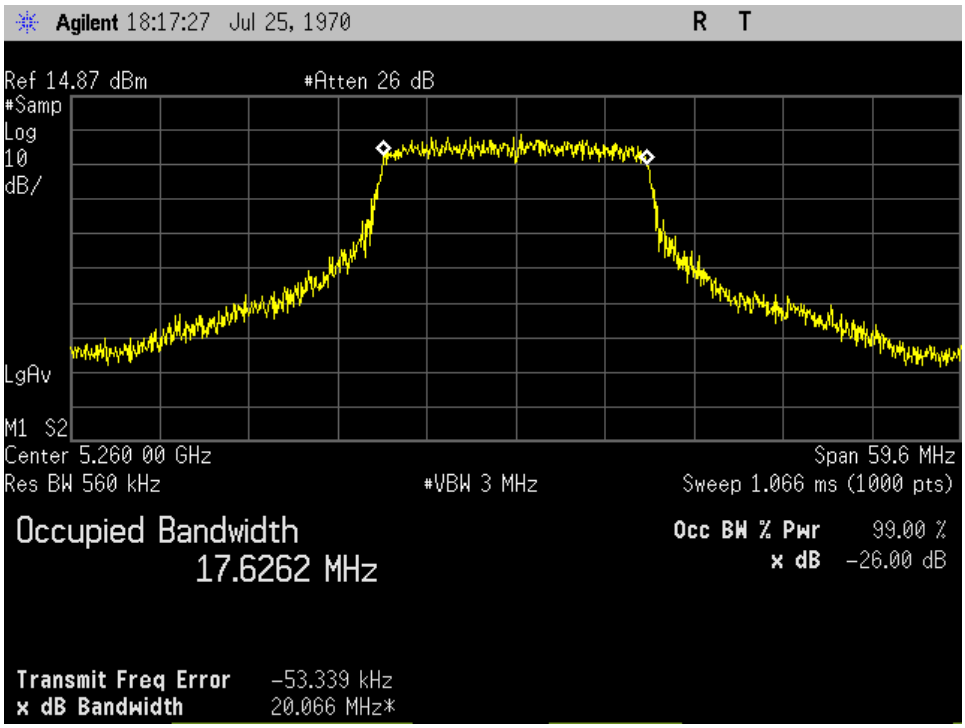


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W53_5260MHz_low_mid Ch_52_20MHz BW_n-mode_Occupied Bandwidth_Port 1

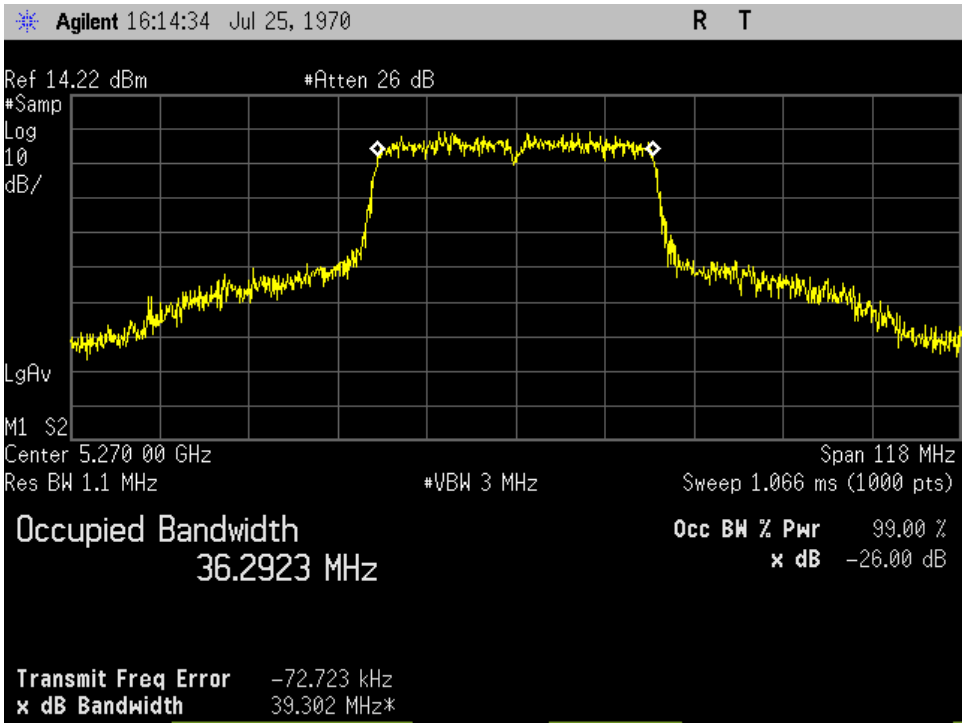


W53_5260MHz_low_mid Ch_52_20MHz BW_n-mode_Occupied Bandwidth_Port 2

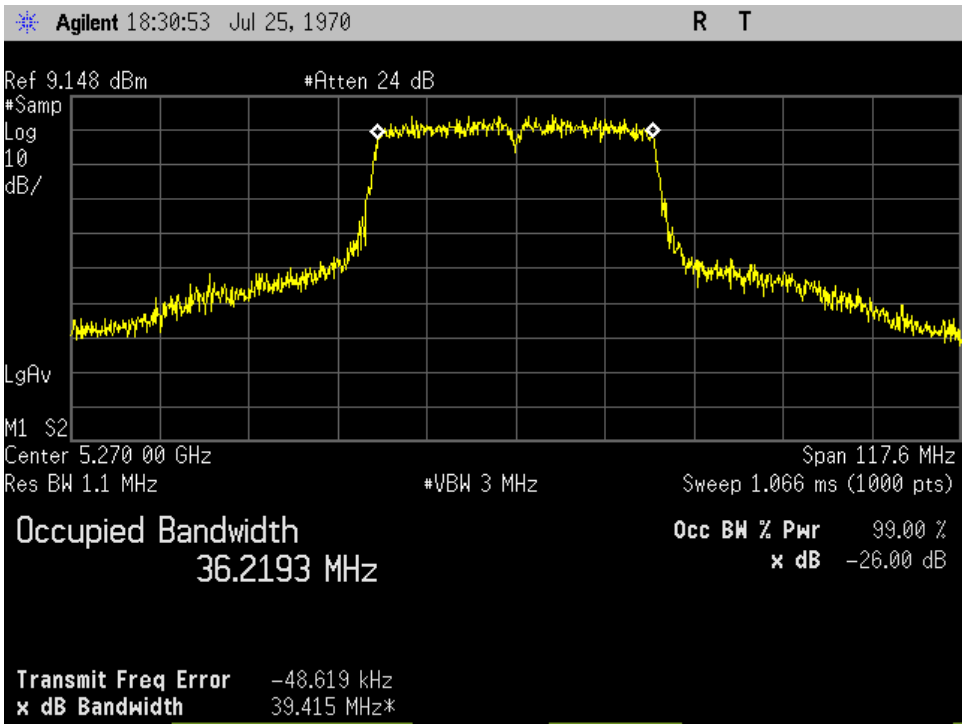


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W53_5270MHz_low_mid Ch_54_40MHz BW_n-mode_Occupied Bandwidth_Port 1

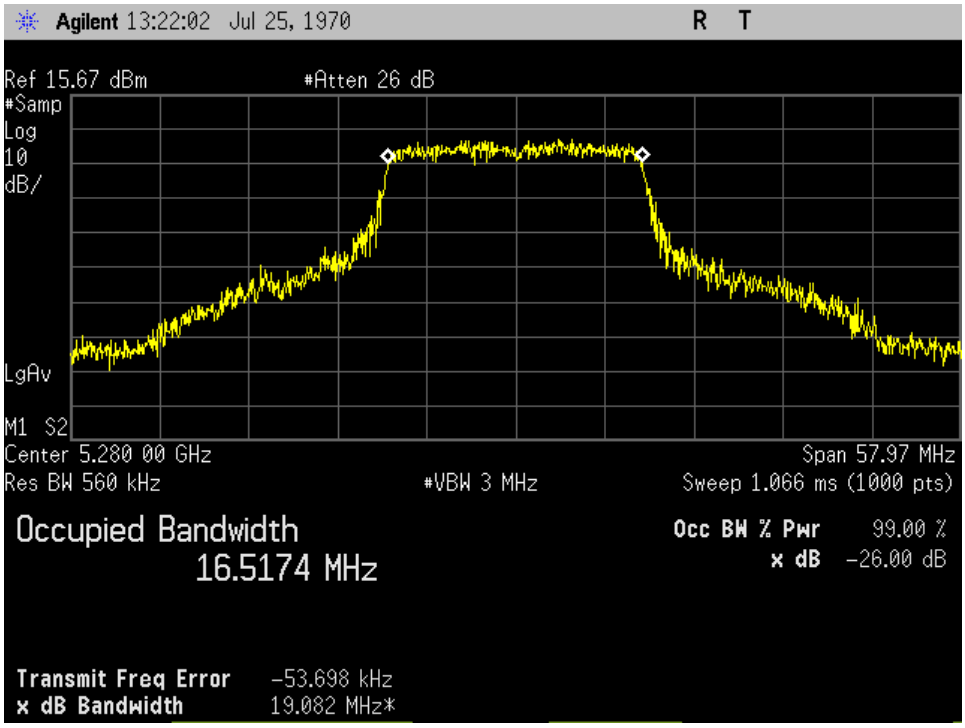


W53_5270MHz_low_mid Ch_54_40MHz BW_n-mode_Occupied Bandwidth_Port 2

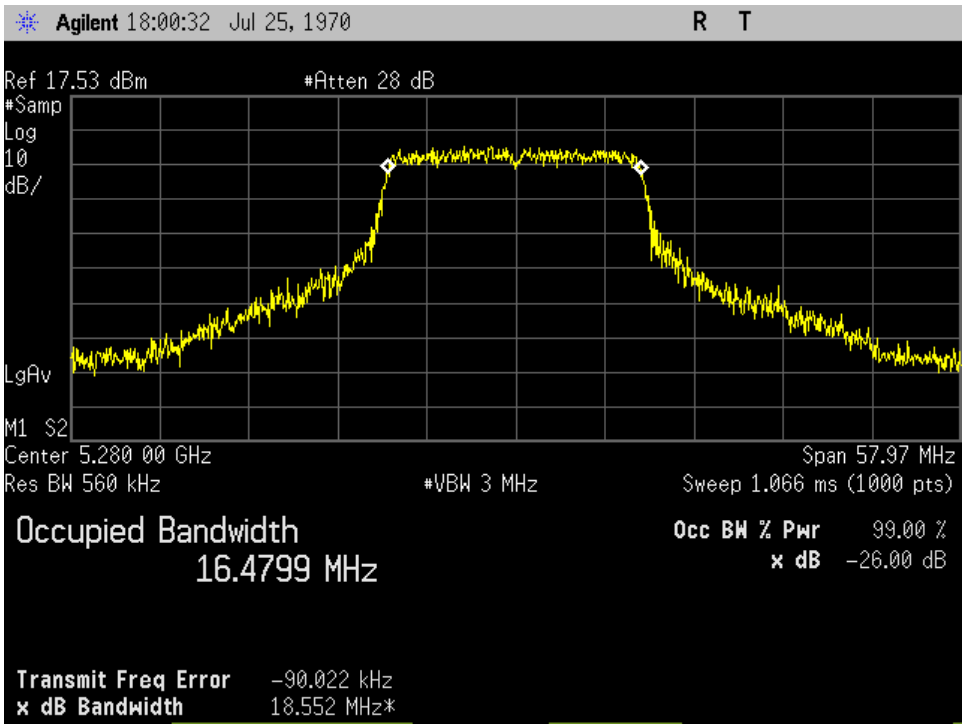


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W53_5280MHz_high_mid Ch_56_20MHz BW_a-mode_Occupied Bandwidth_Port 1

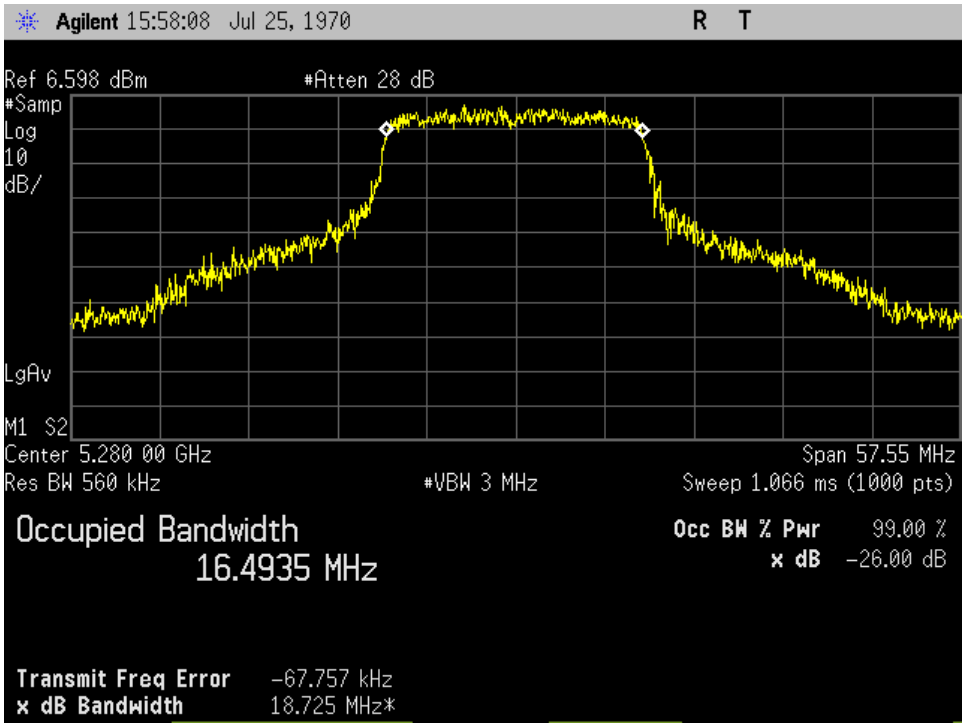


W53_5280MHz_high_mid Ch_56_20MHz BW_a-mode_Occupied Bandwidth_Port 2

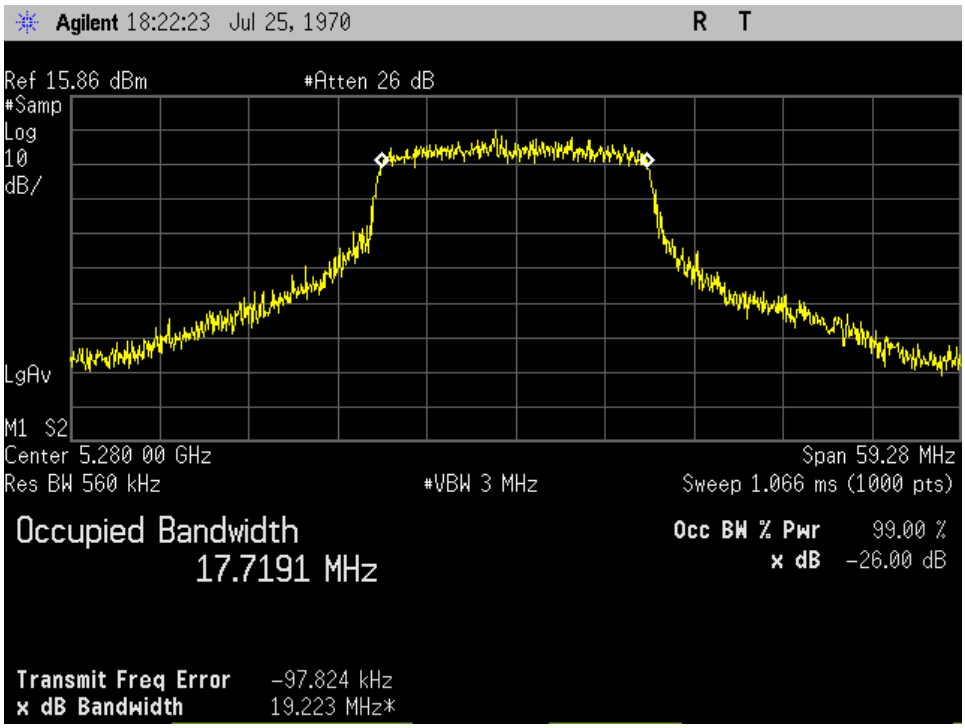


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W53_5280MHz_high_mid Ch_56_20MHz BW_n-mode_Occupied Bandwidth_Port 1

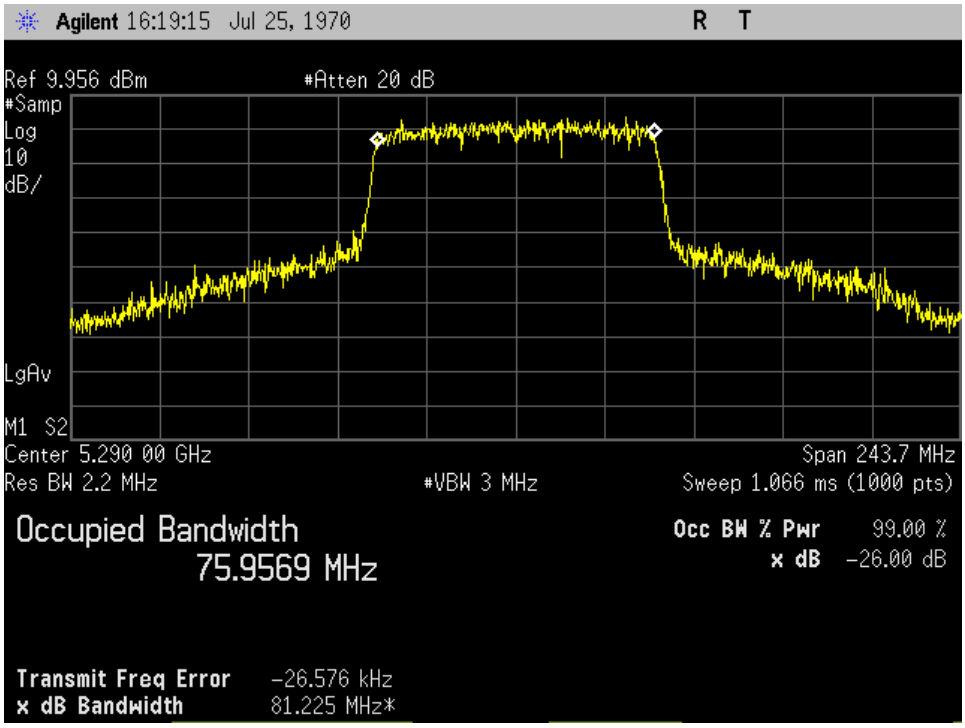


W53_5280MHz_high_mid Ch_56_20MHz BW_n-mode_Occupied Bandwidth_Port 2

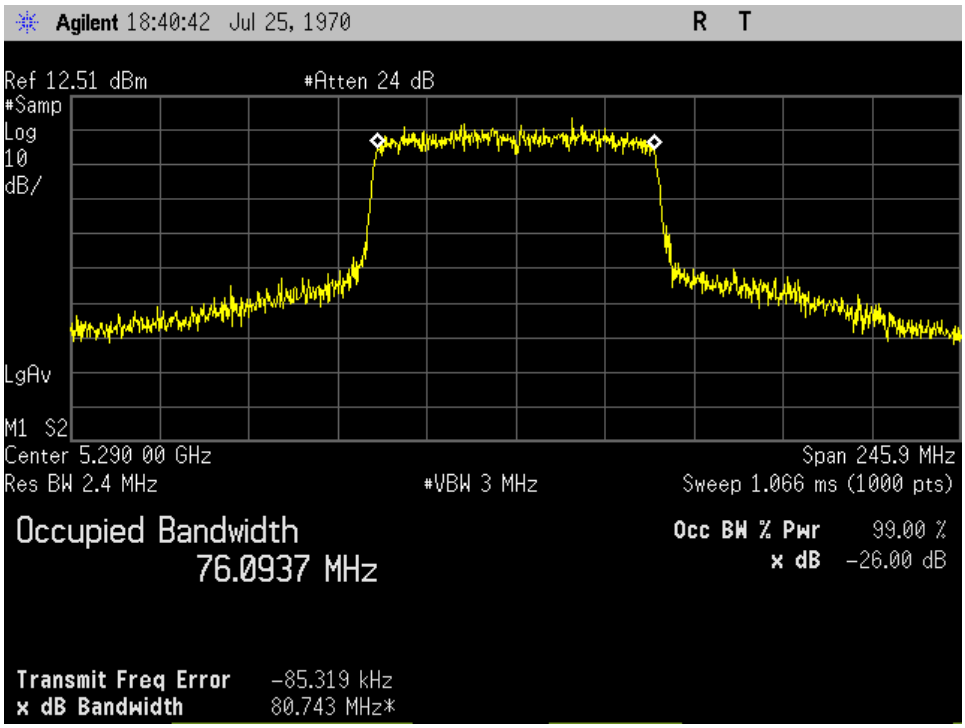


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W53_5290MHz_High Ch_58_80MHz BW_ac-mode_Occupied Bandwidth_Port 1

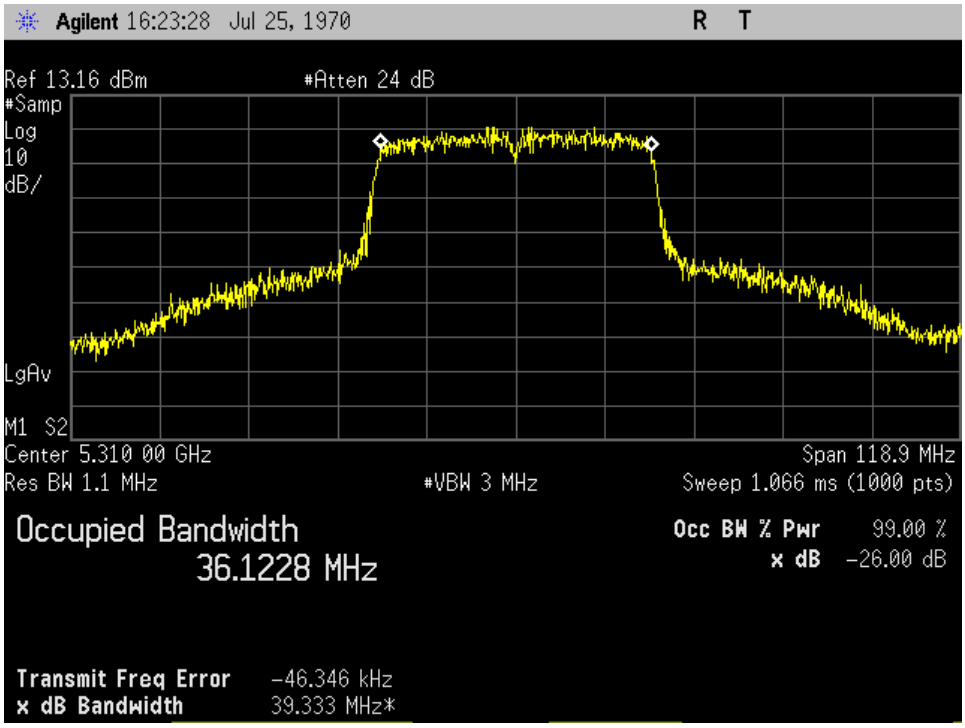


W53_5290MHz_High Ch_58_80MHz BW_ac-mode_Occupied Bandwidth_Port 2

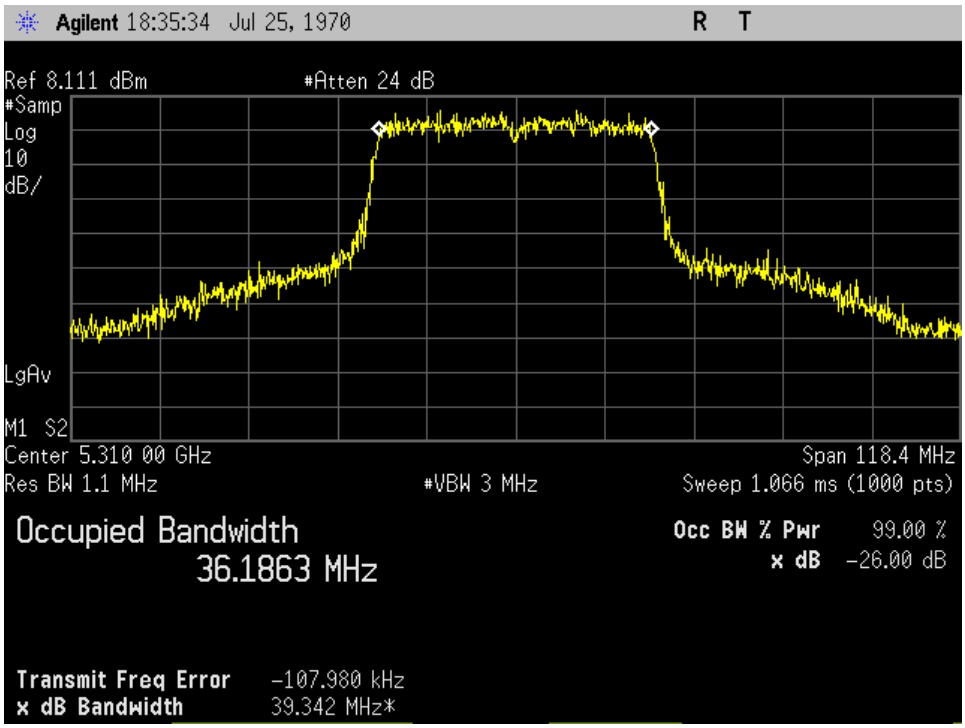


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W53_5310MHz_High Ch_62_40MHz BW_n-mode_Occupied Bandwidth_Port 1

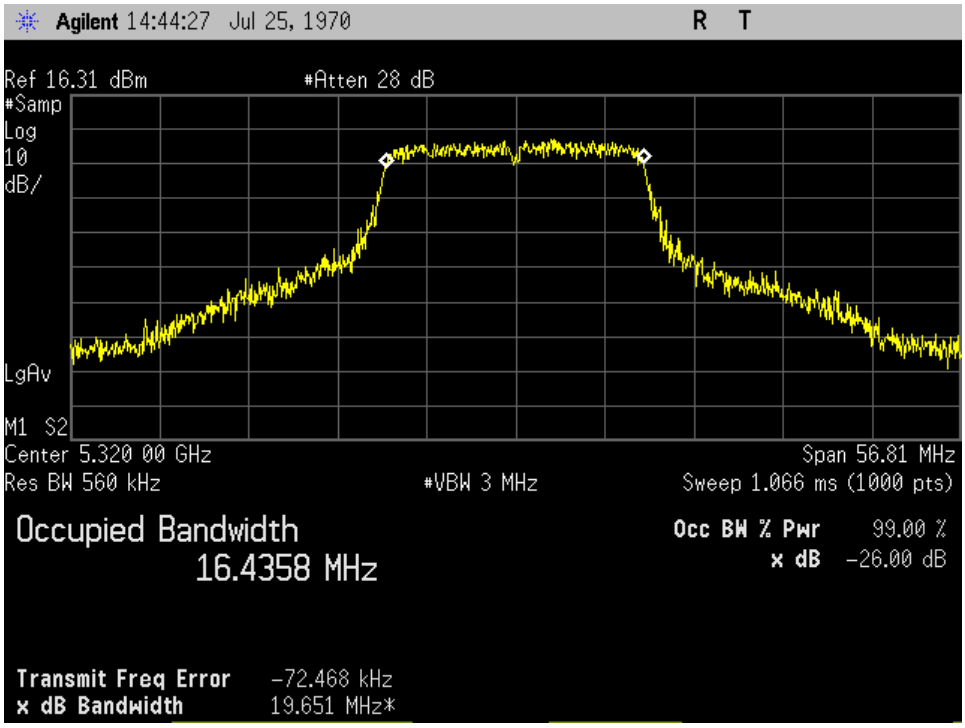


W53_5310MHz_High Ch_62_40MHz BW_n-mode_Occupied Bandwidth_Port 2

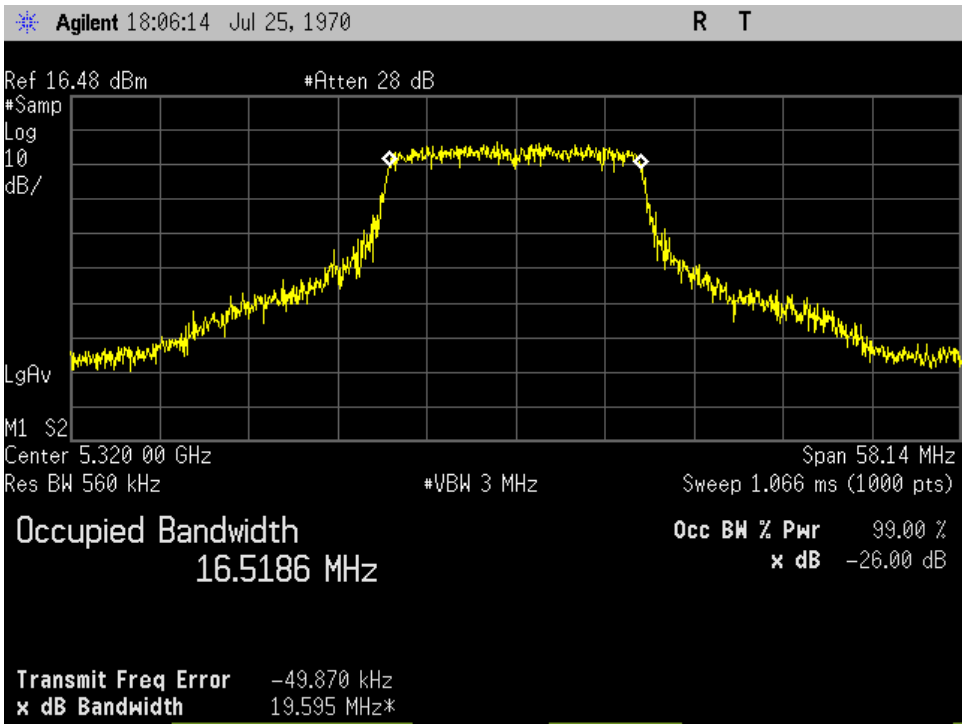


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W53_5320MHz_High Ch_64_20MHz BW_a-mode_Occupied Bandwidth_Port 1

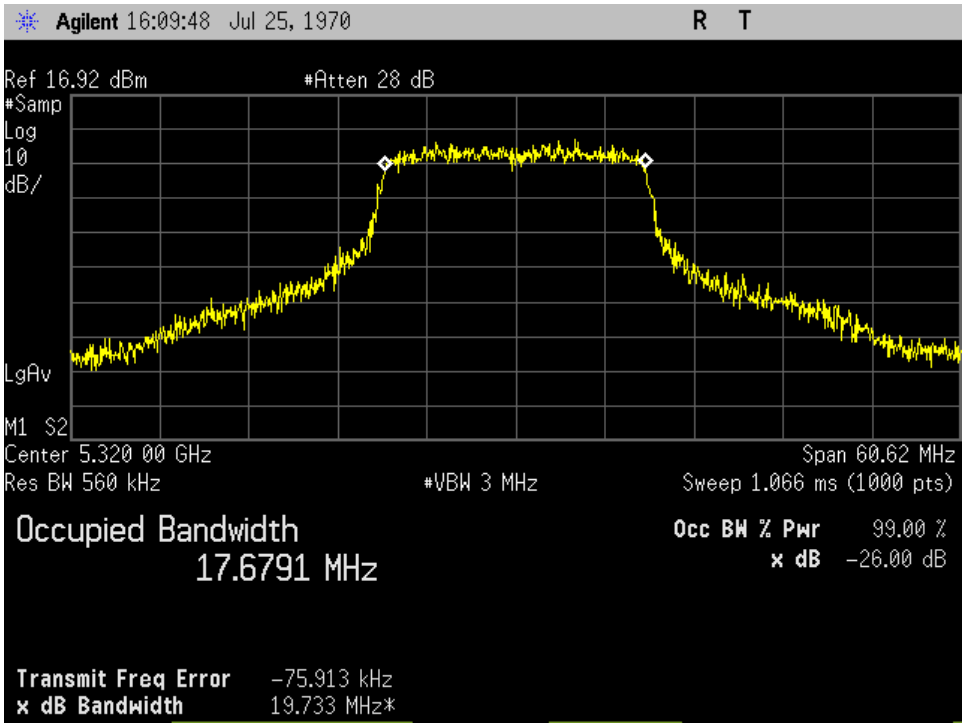


W53_5320MHz_High Ch_64_20MHz BW_a-mode_Occupied Bandwidth_Port 2

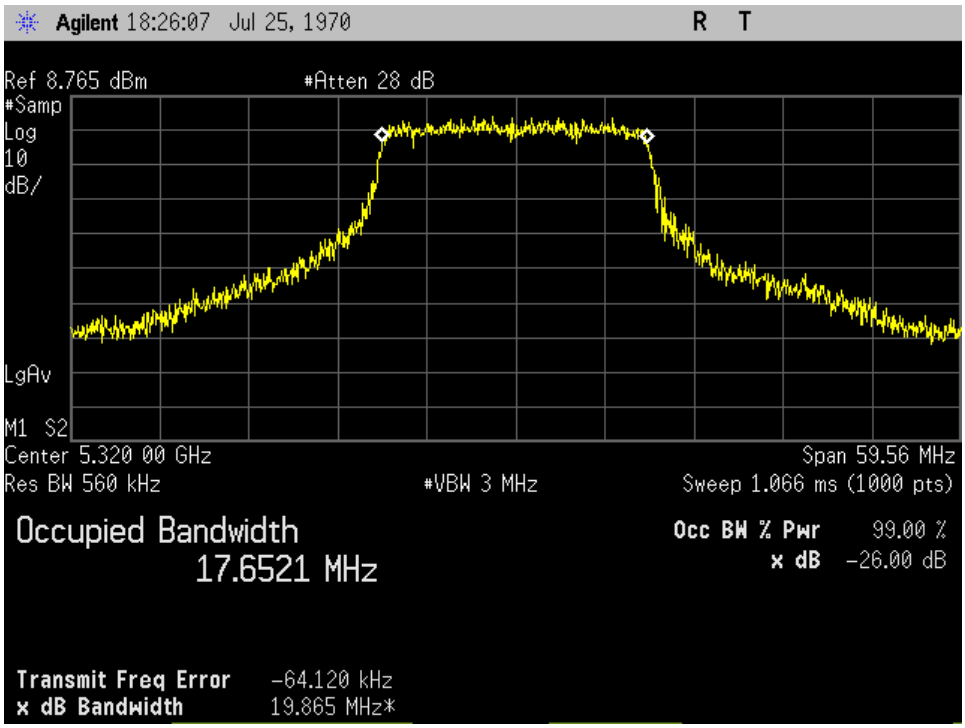


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W53_5320MHz_High Ch_64_20MHz BW_n-mode_Occupied Bandwidth_Port 1

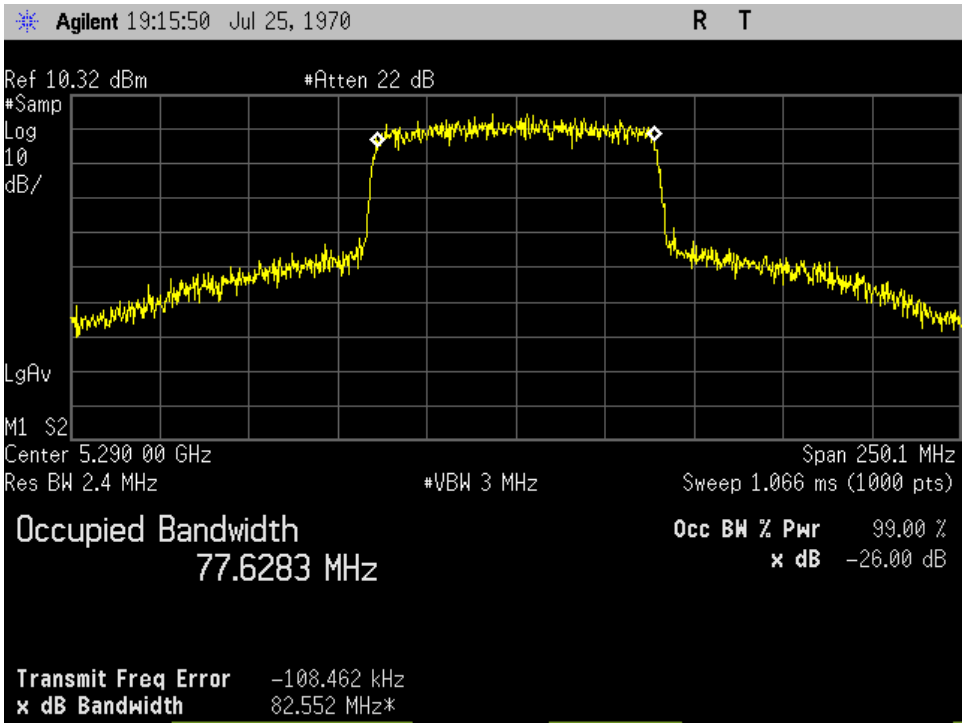


W53_5320MHz_High Ch_64_20MHz BW_n-mode_Occupied Bandwidth_Port 2

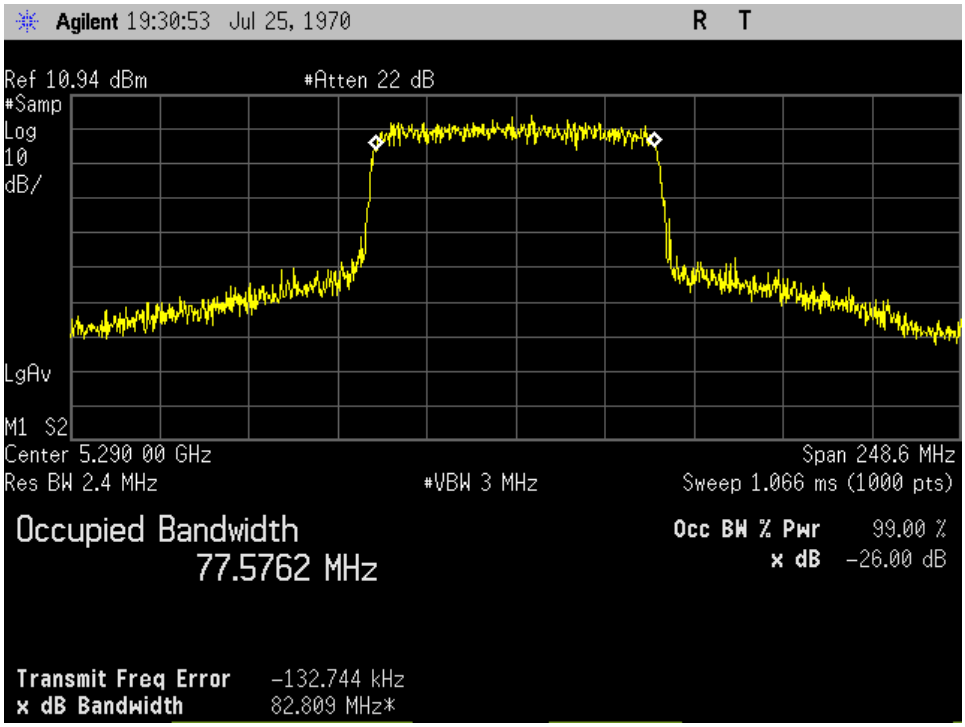


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W53_5290MHz_High Ch_58_80MHz BW_ax-mode_Occupied Bandwidth_Port 1



W53_5290MHz_High Ch_58_80MHz BW_ax-mode_Occupied Bandwidth_Port 2

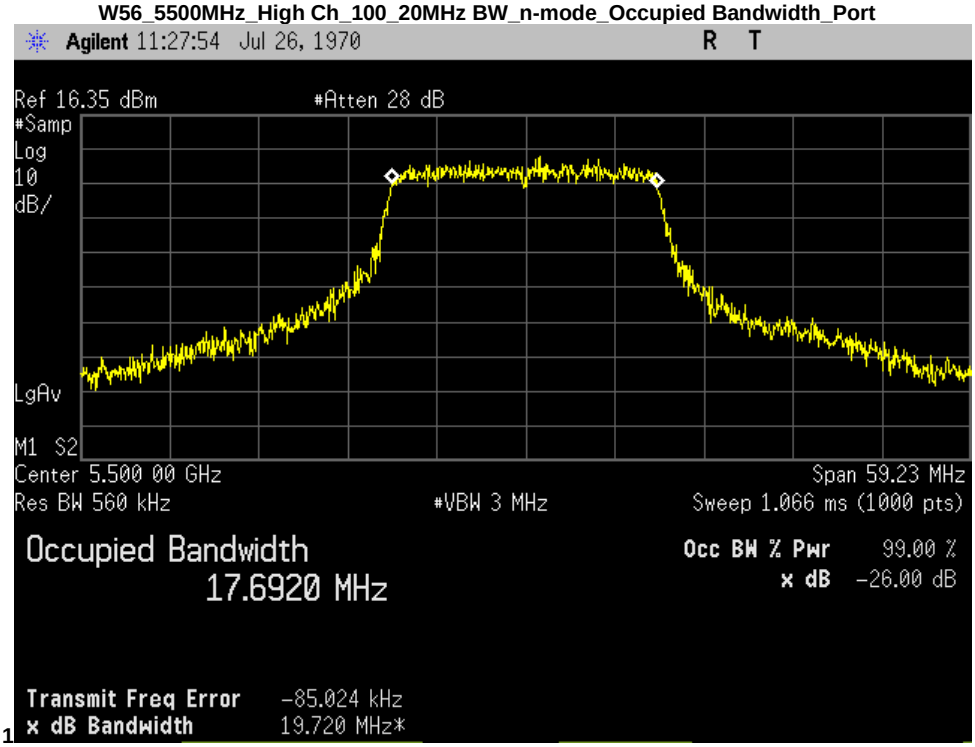


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Occupied Bandwidth Plots (W56 Band)

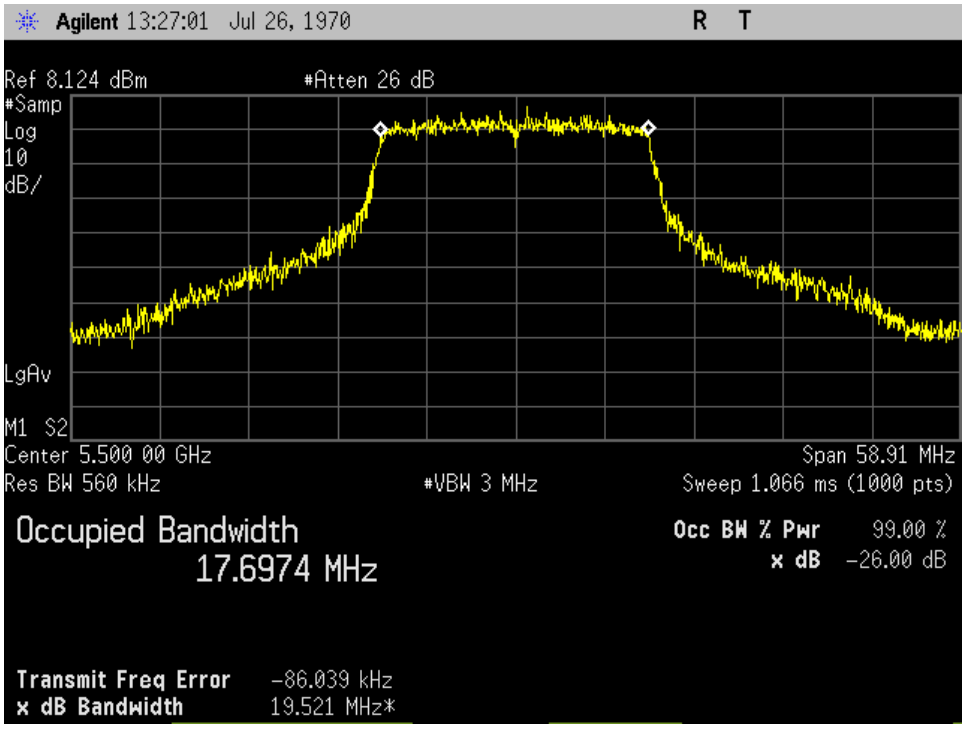
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W56_5500MHz_High Ch_100_20MHz BW_n-mode_Occupied Bandwidth_Port



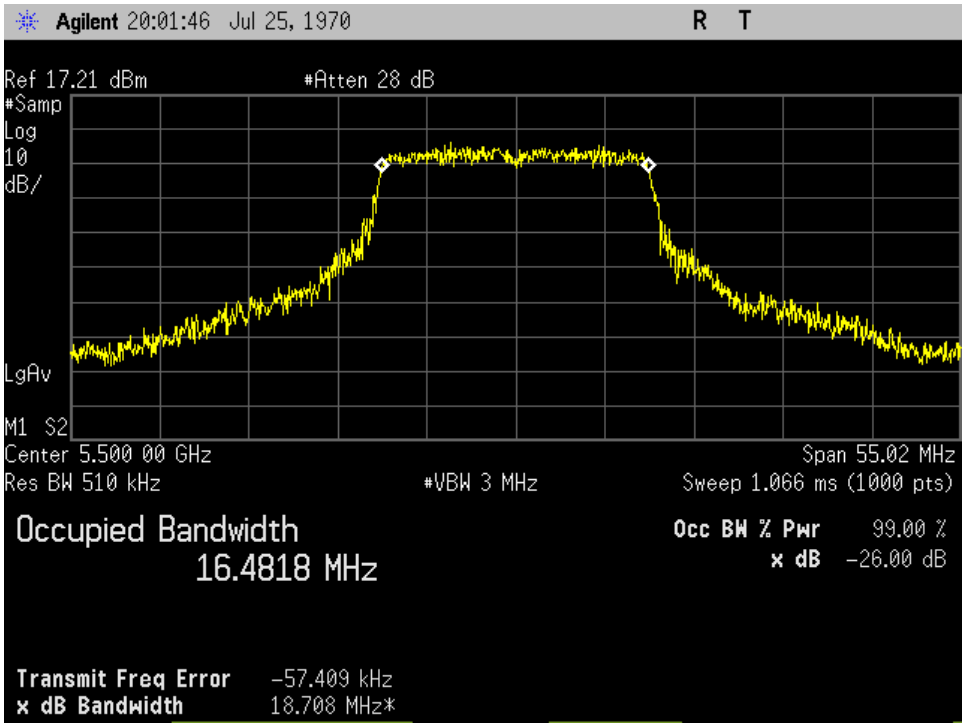
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W56_5500MHz_High Ch_100_20MHz BW_n-mode_Occupied Bandwidth_Port 2

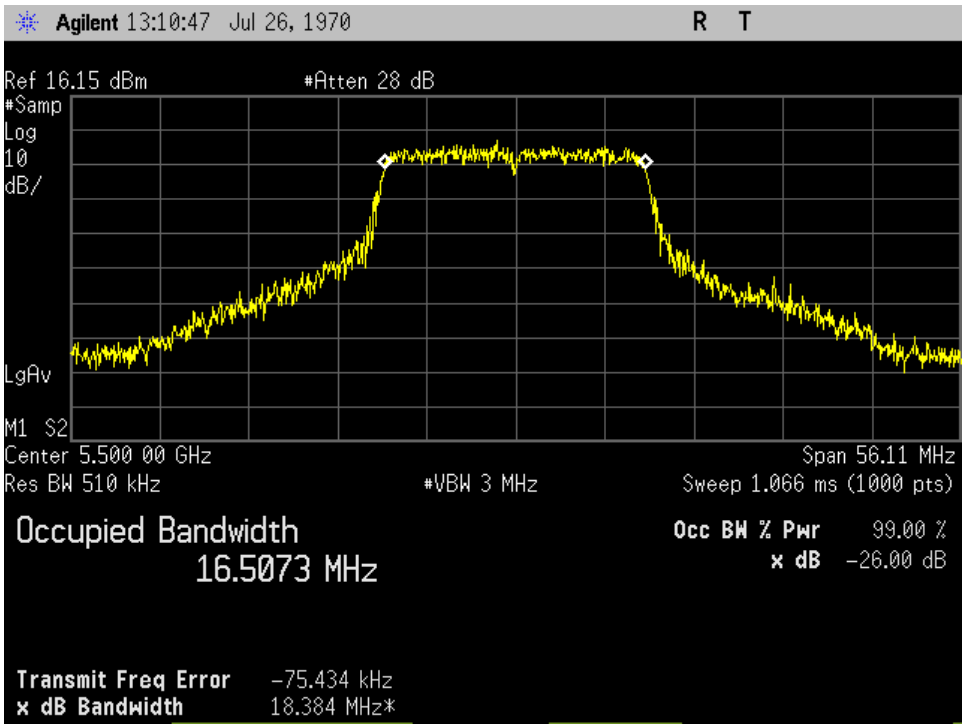


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W56_5500MHz_Low Ch_100_20MHz BW_a-mode_Occupied Bandwidth_Port 1

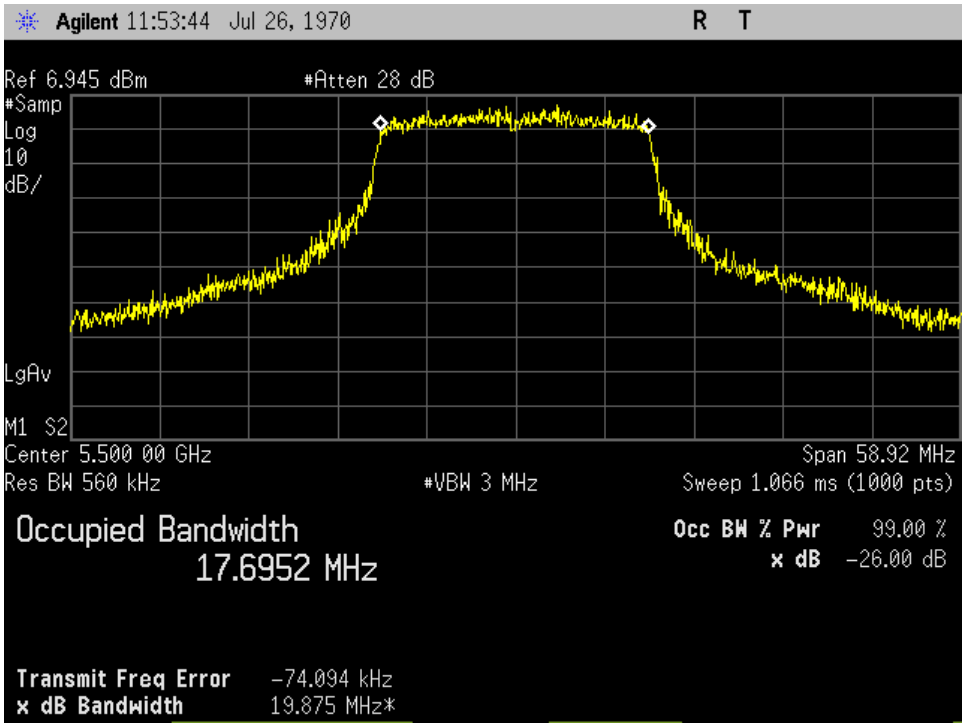


W56_5500MHz_Low Ch_100_20MHz BW_a-mode_Occupied Bandwidth_Port 2

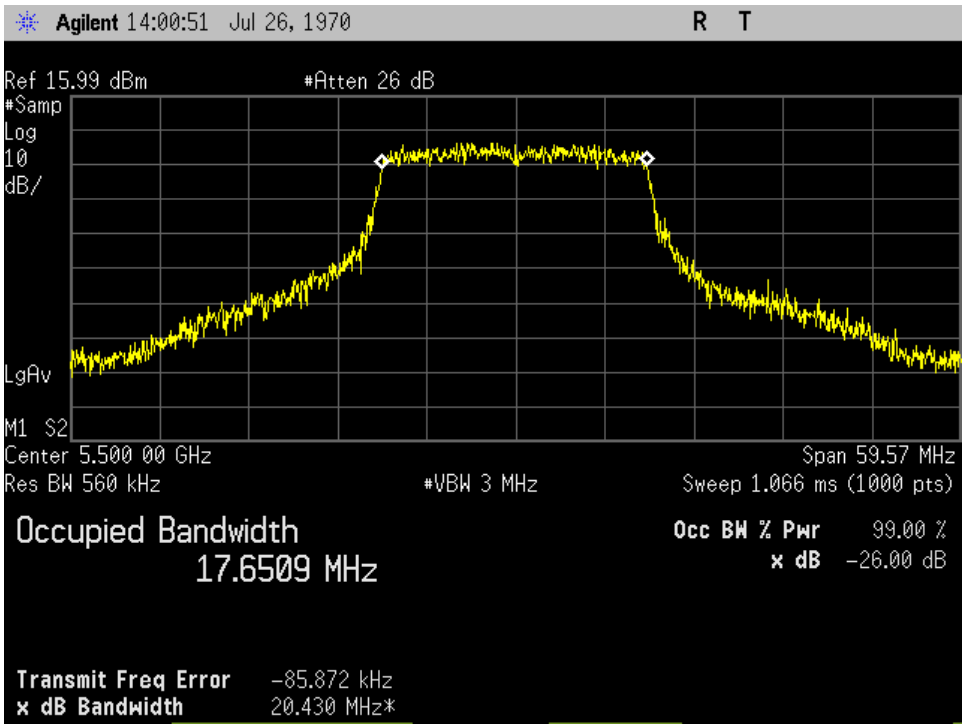


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W56_5500MHz_Low Ch_100_20MHz BW_ac-mode_Occupied Bandwidth_Port 1

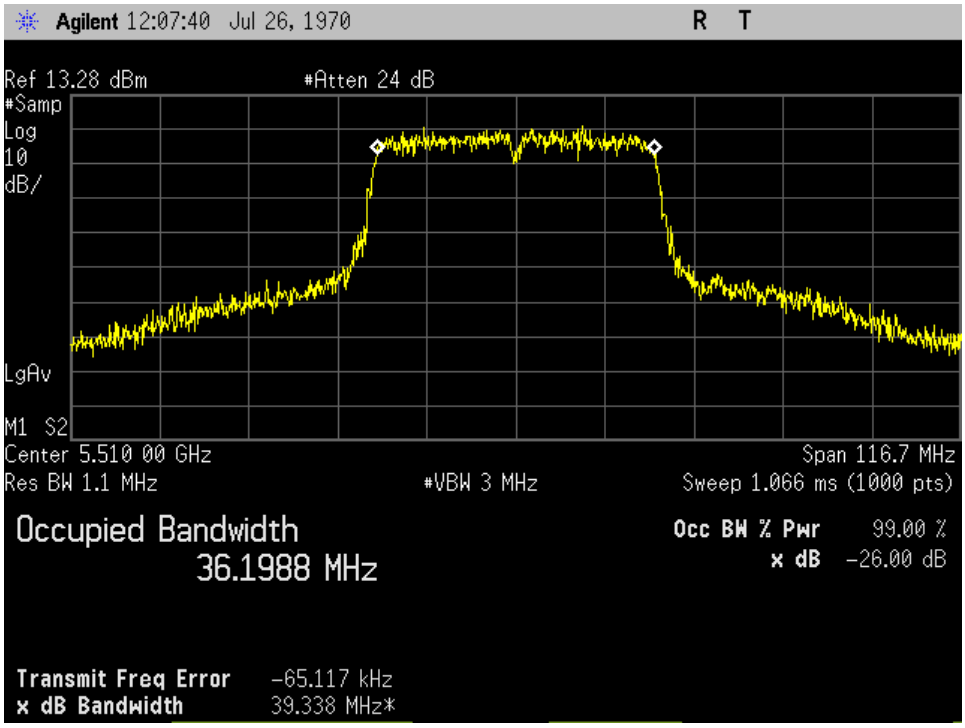


W56_5500MHz_Low Ch_100_20MHz BW_ac-mode_Occupied Bandwidth_Port 2

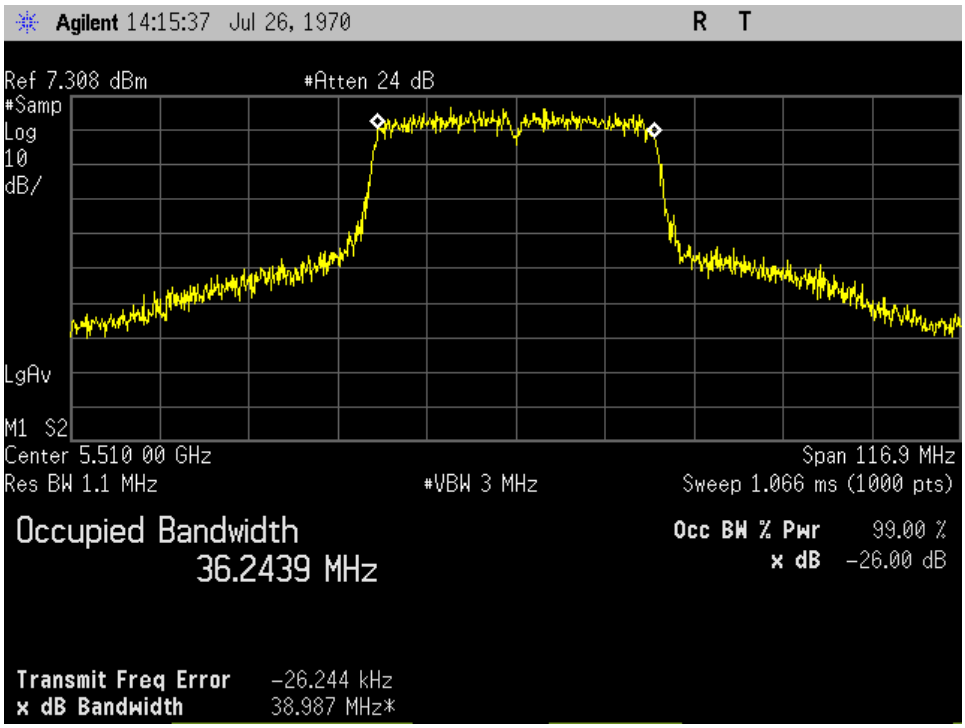


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W56_5510MHz_High Ch_102_40MHz BW_n-mode_Occupied Bandwidth_Port 1

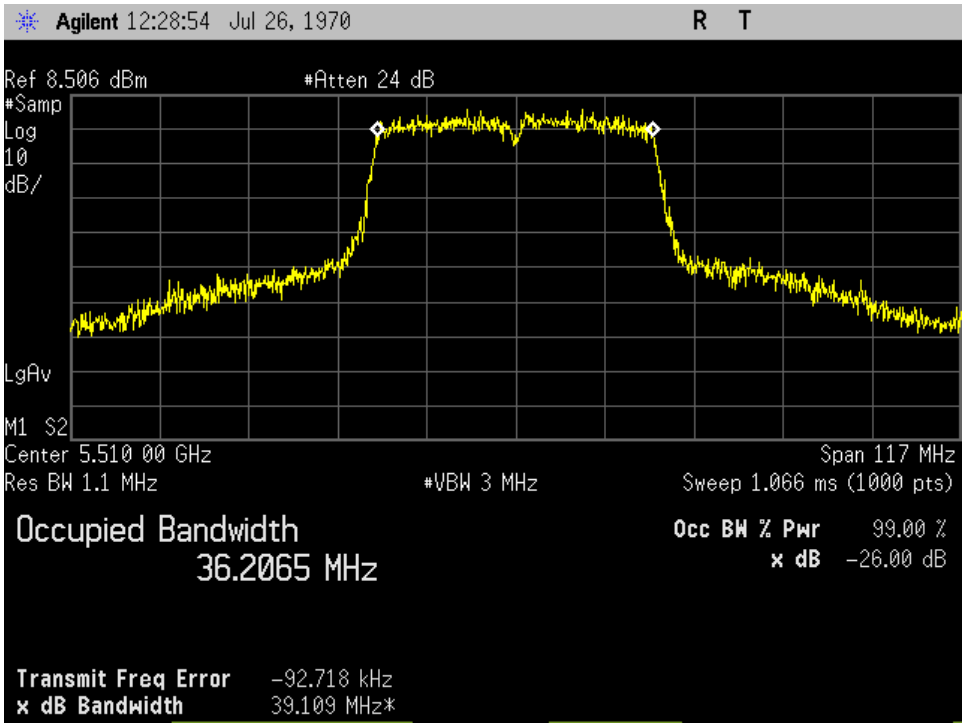


W56_5510MHz_High Ch_102_40MHz BW_n-mode_Occupied Bandwidth_Port 2

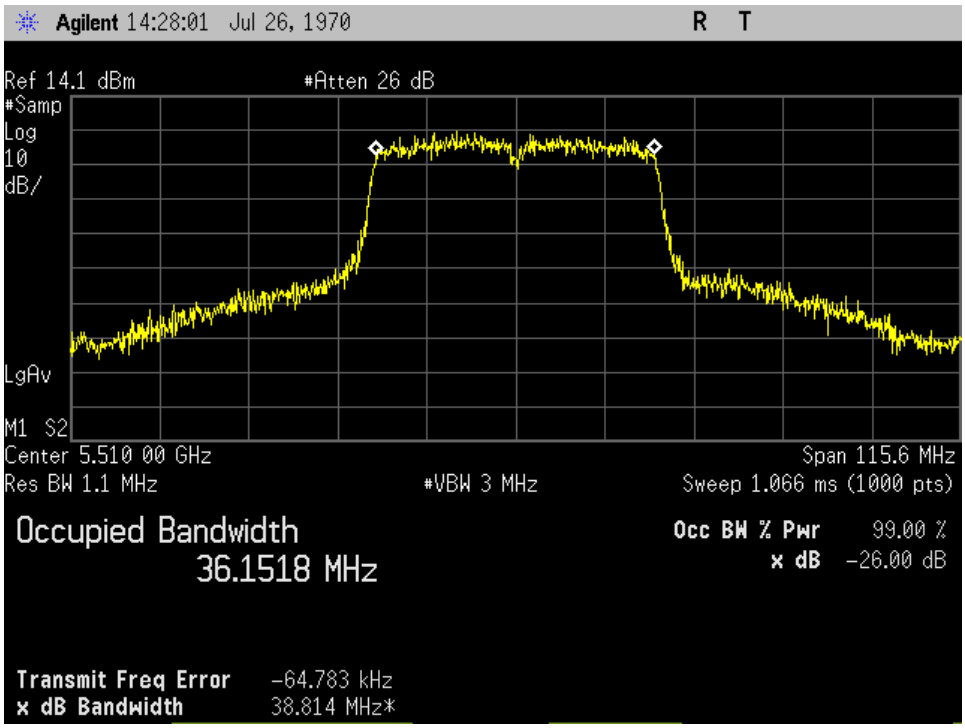


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W56_5510MHz_Mid Ch_102_40MHz BW_ac-mode_Occupied Bandwidth_Port 1

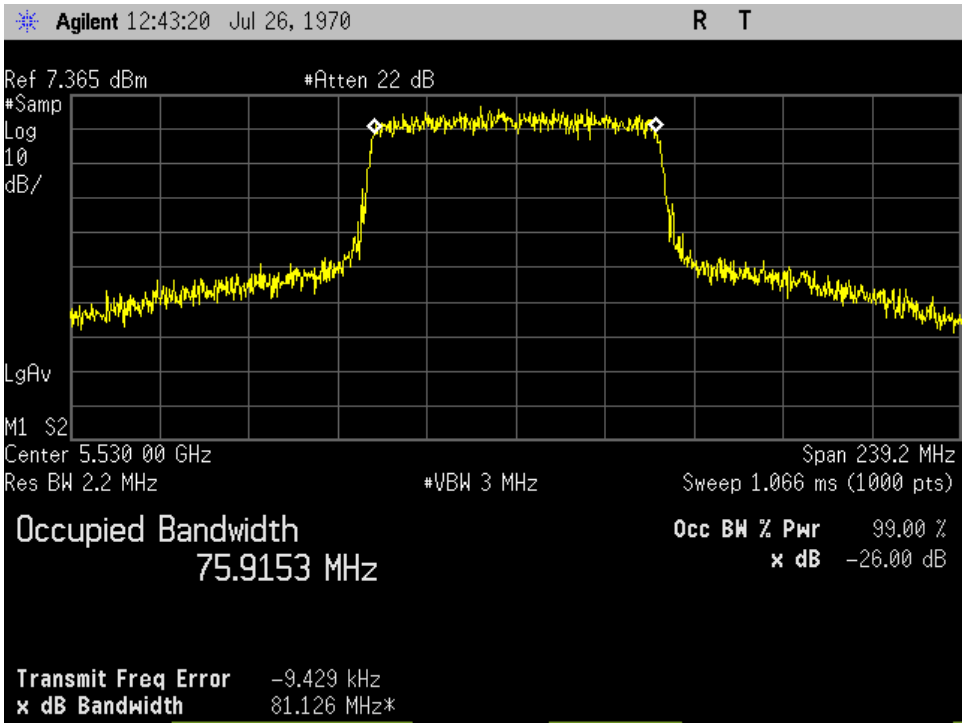


W56_5510MHz_Mid Ch_102_40MHz BW_ac-mode_Occupied Bandwidth_Port 2

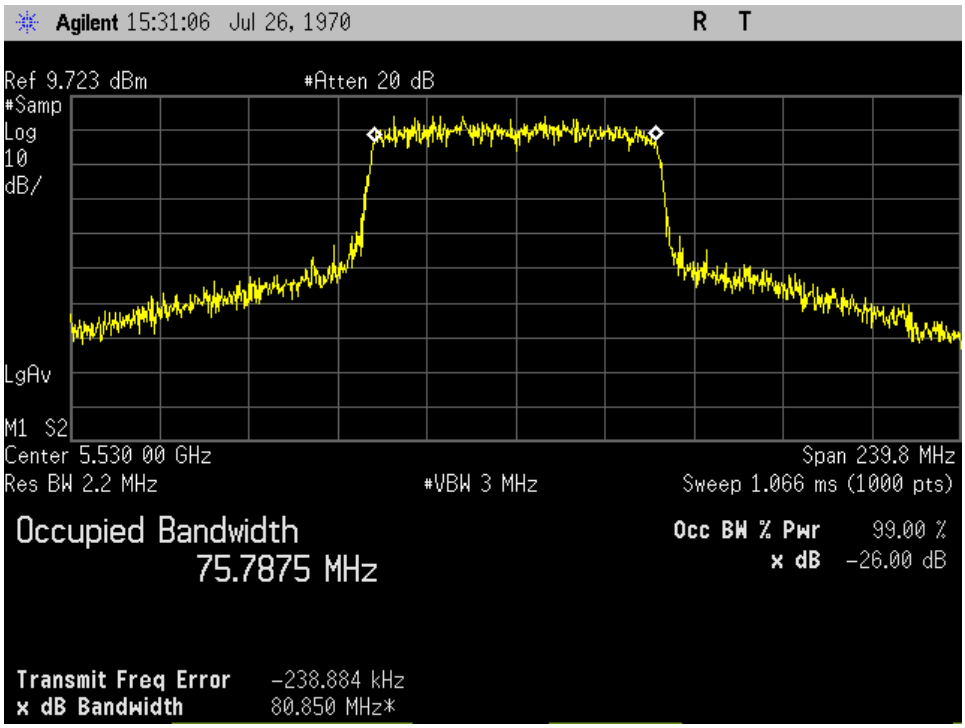


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W56_5530MHz_Low Ch_106_80MHz BW_ac-mode_Occupied Bandwidth_Port 1

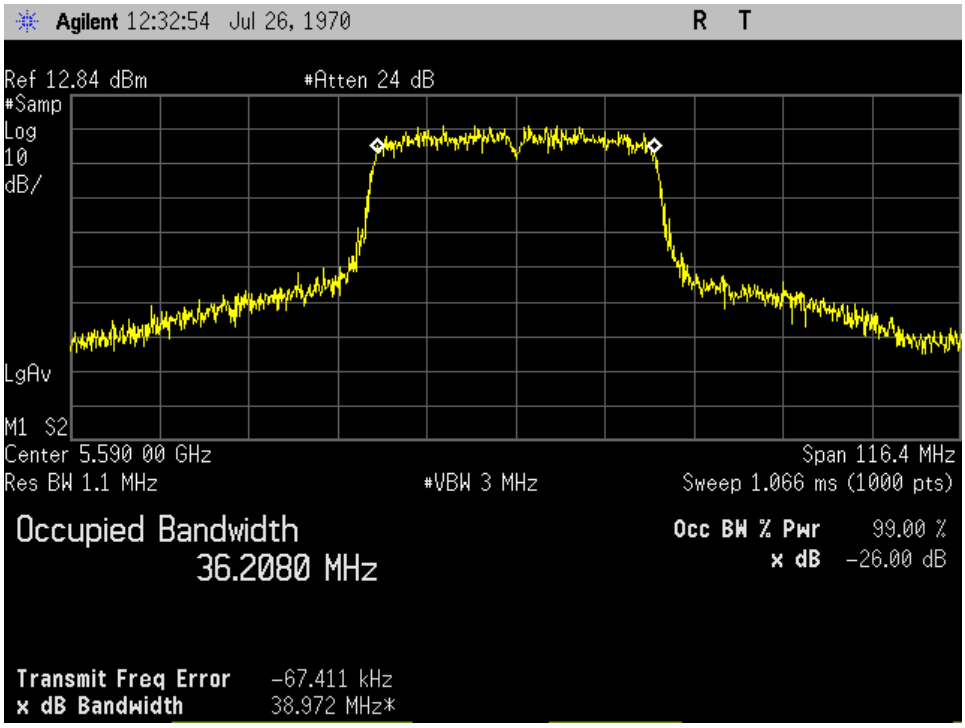


W56_5530MHz_Low Ch_106_80MHz BW_ac-mode_Occupied Bandwidth_Port 2

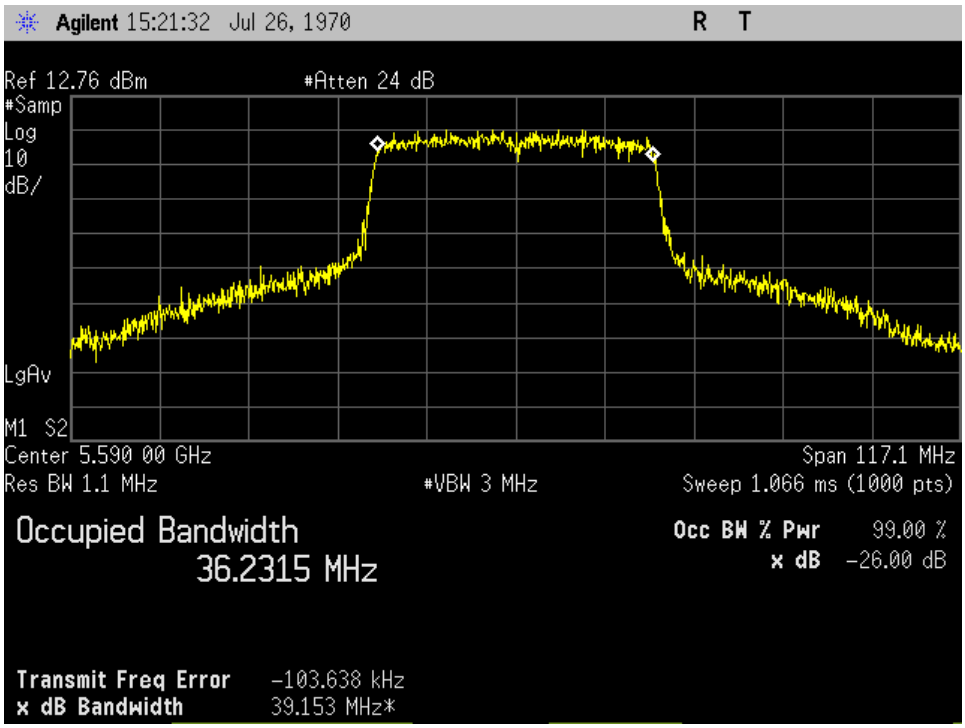


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W56_5590MHz_High Ch_118_40MHz BW_ac-mode_Occupied Bandwidth_Port 1

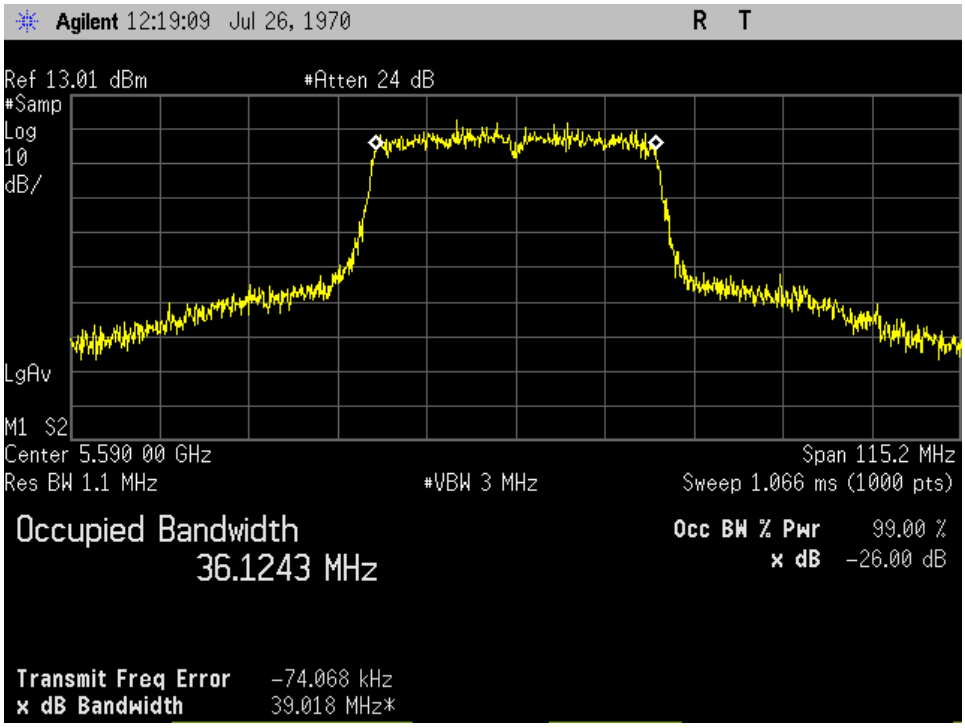


W56_5590MHz_High Ch_118_40MHz BW_ac-mode_Occupied Bandwidth_Port 2

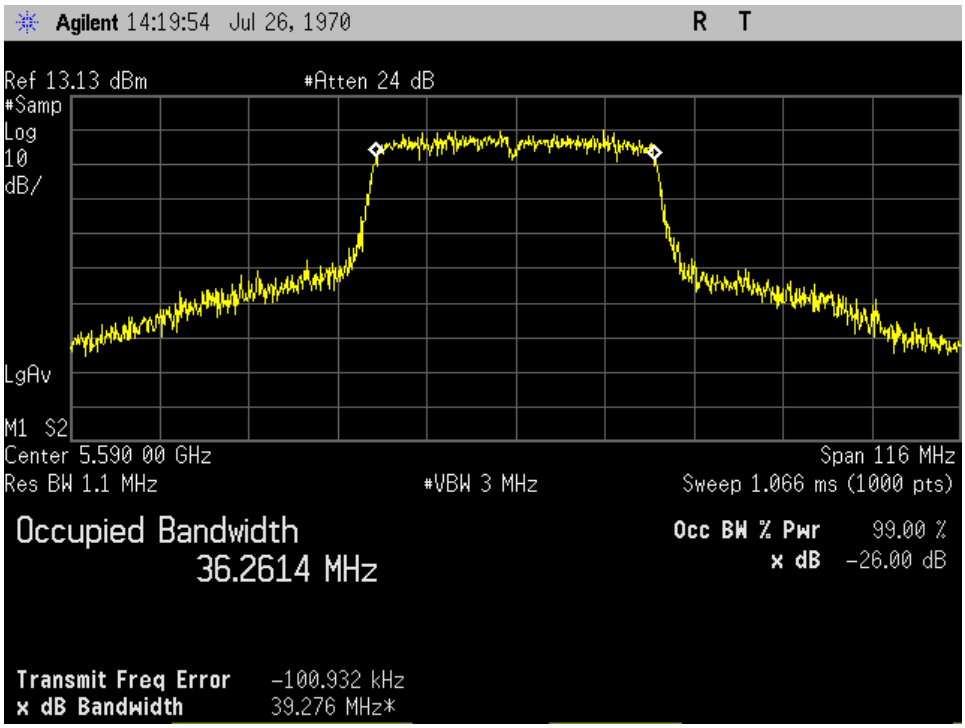


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W56_5590MHz_High Ch_118_40MHz BW_n-mode_Occupied Bandwidth_Port 1

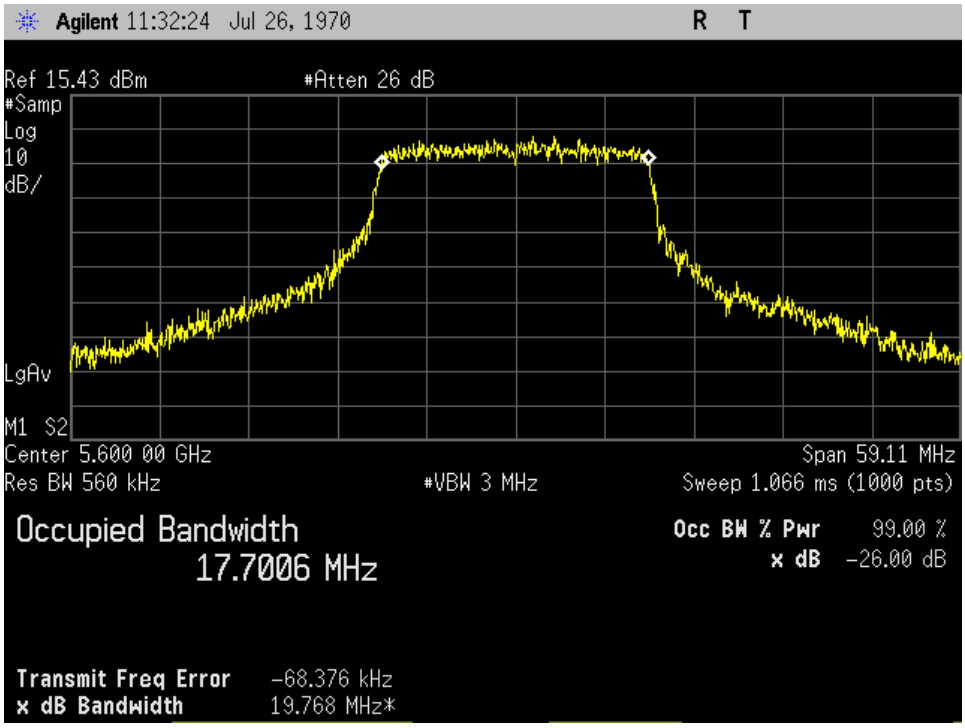


W56_5590MHz_High Ch_118_40MHz BW_n-mode_Occupied Bandwidth_Port 2

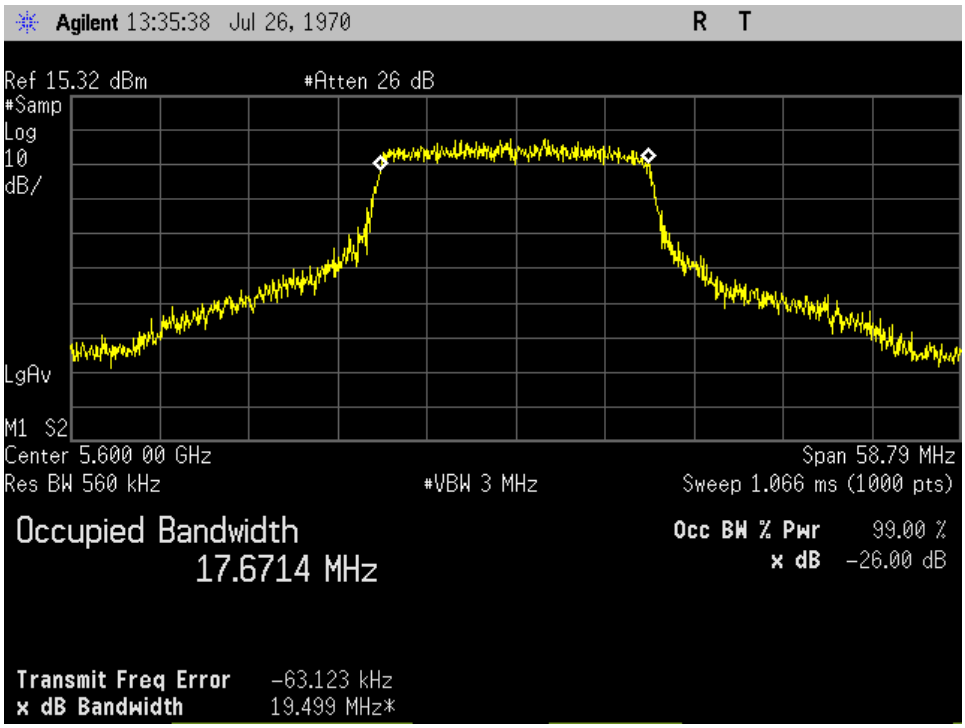


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W56_5600MHz_High Ch_120_20MHz BW_n-mode_Occupied Bandwidth_Port 1

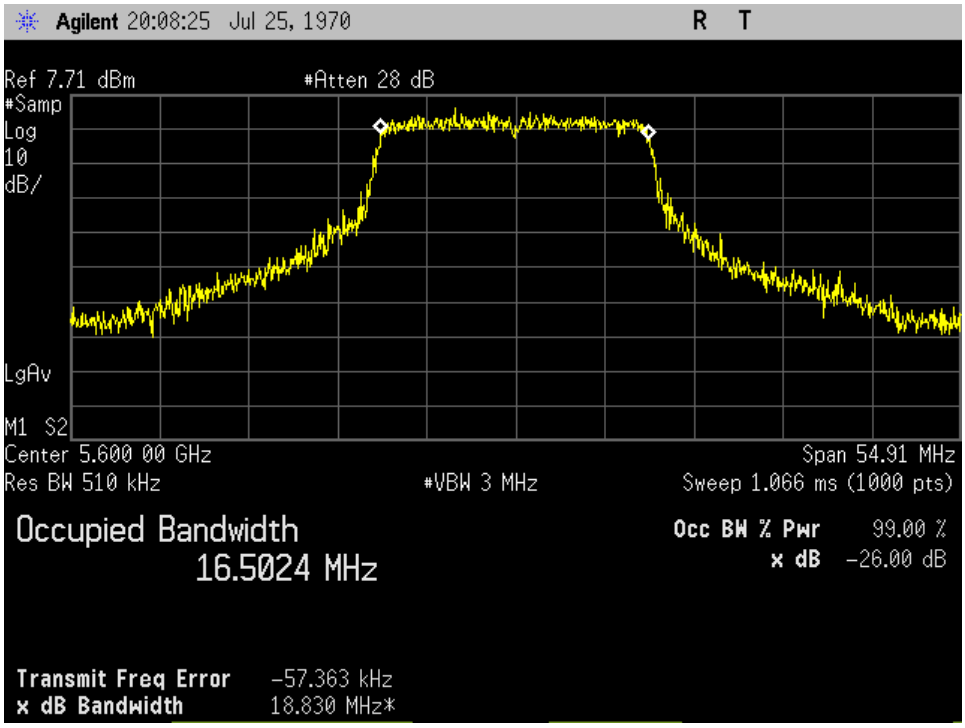


W56_5600MHz_High Ch_120_20MHz BW_n-mode_Occupied Bandwidth_Port 2

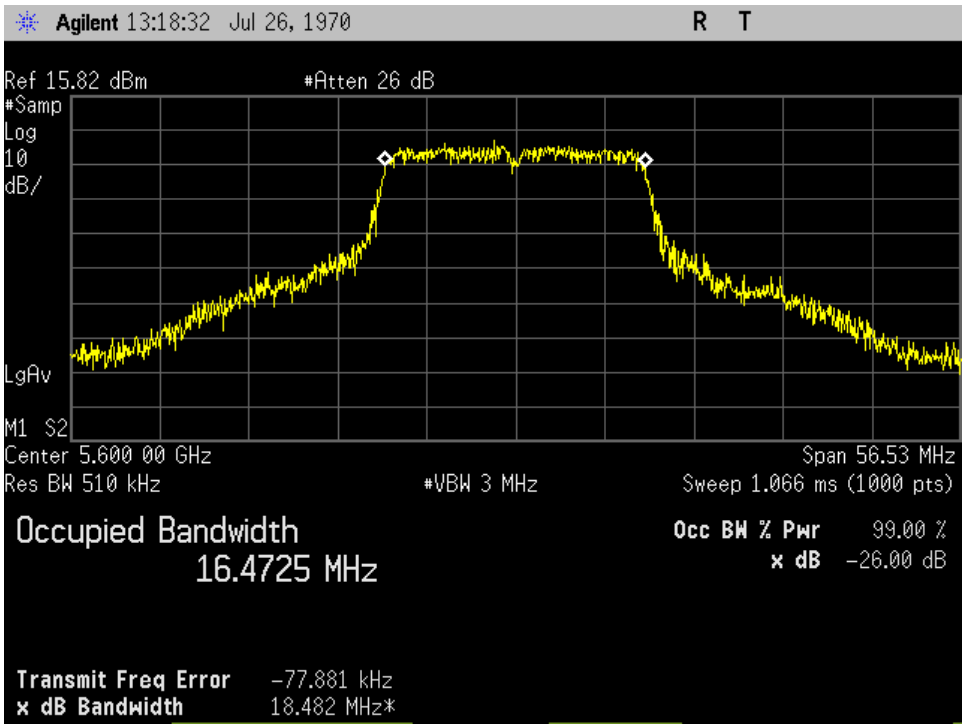


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W56_5600MHz_Mid Ch_120_20MHz BW_a-mode_Occupied Bandwidth_Port 1

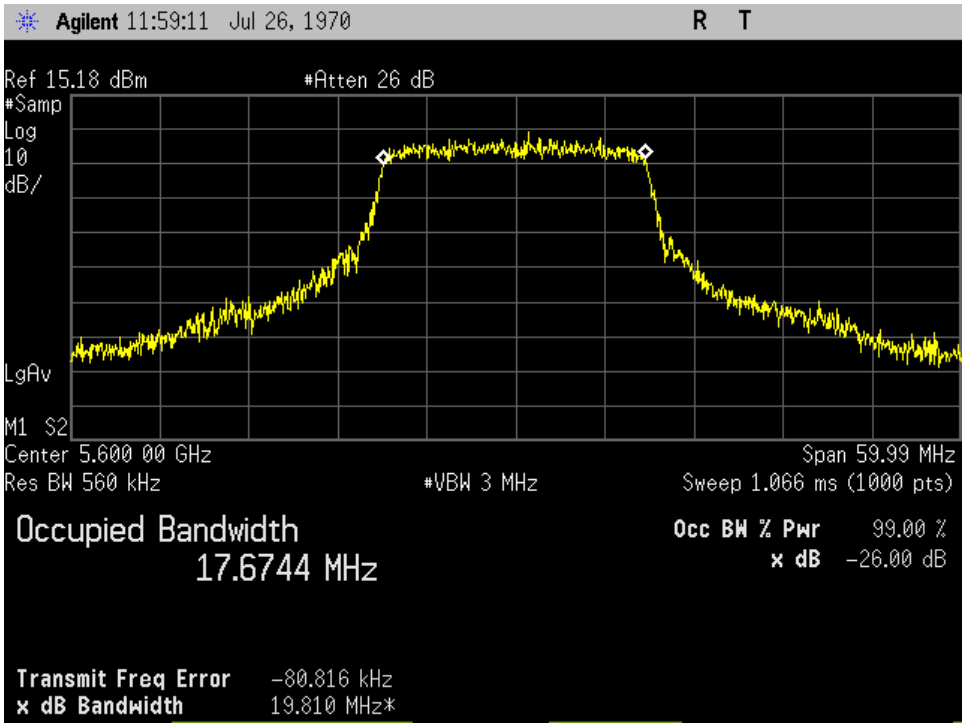


W56_5600MHz_Mid Ch_120_20MHz BW_a-mode_Occupied Bandwidth_Port 2

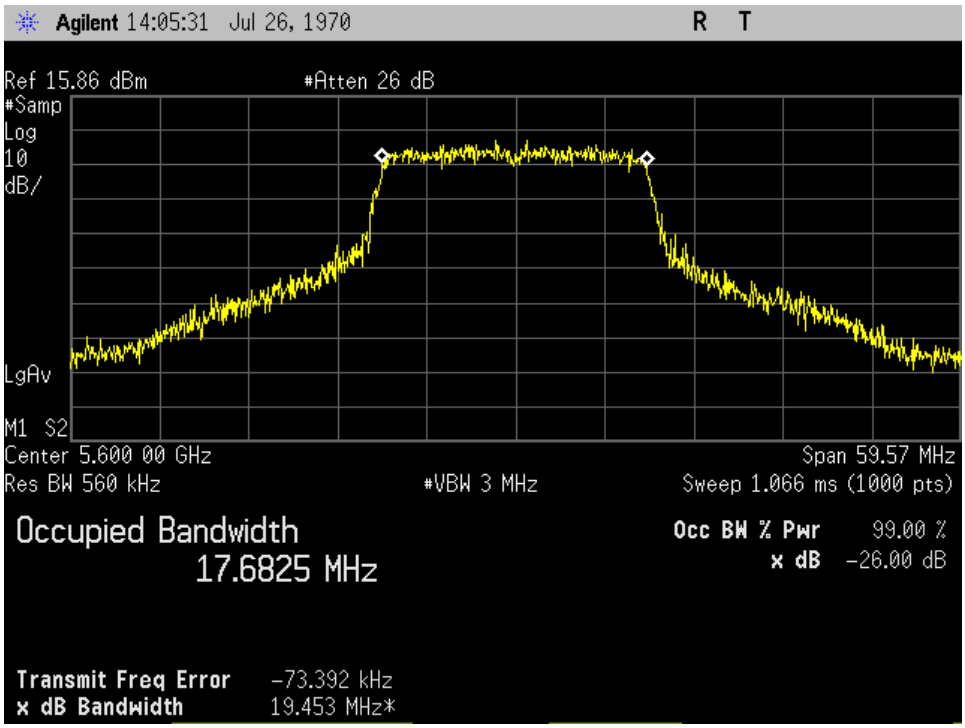


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W56_5600MHz_Mid Ch_120_20MHz BW_ac-mode_Occupied Bandwidth_Port 1

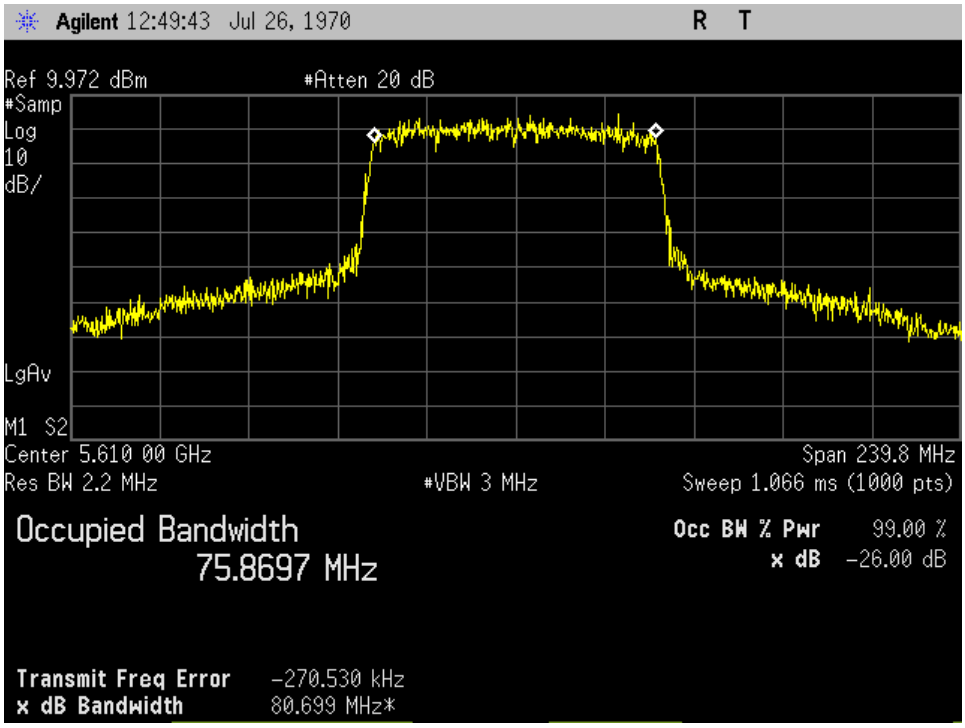


W56_5600MHz_Mid Ch_120_20MHz BW_ac-mode_Occupied Bandwidth_Port 2

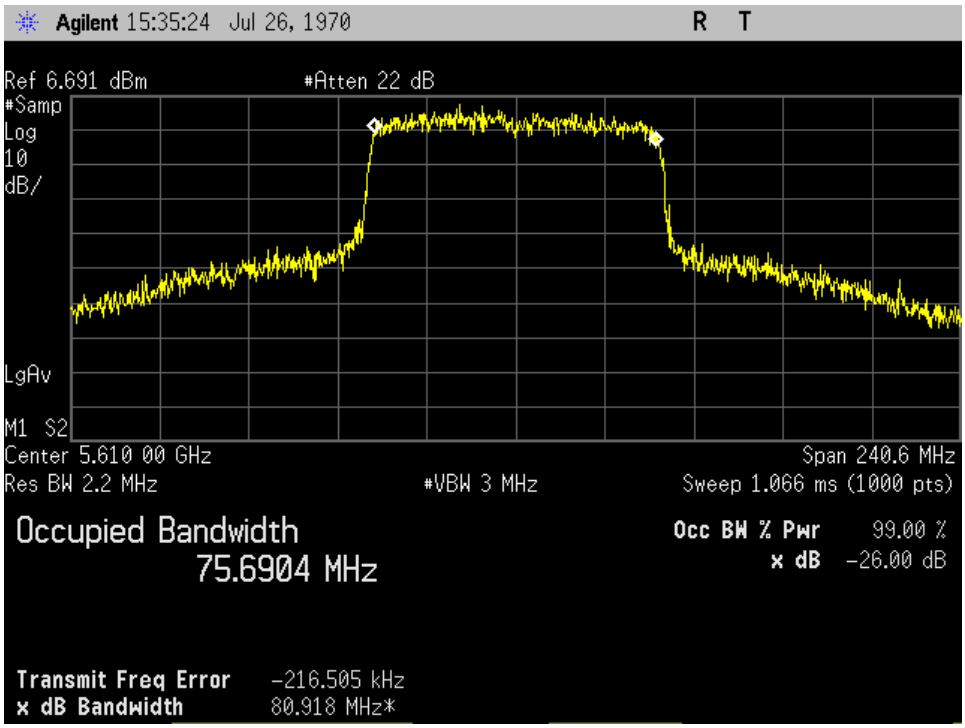


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W56_5610MHz_Mid Ch_122_80MHz BW_ac-mode_Occupied Bandwidth_Port 1

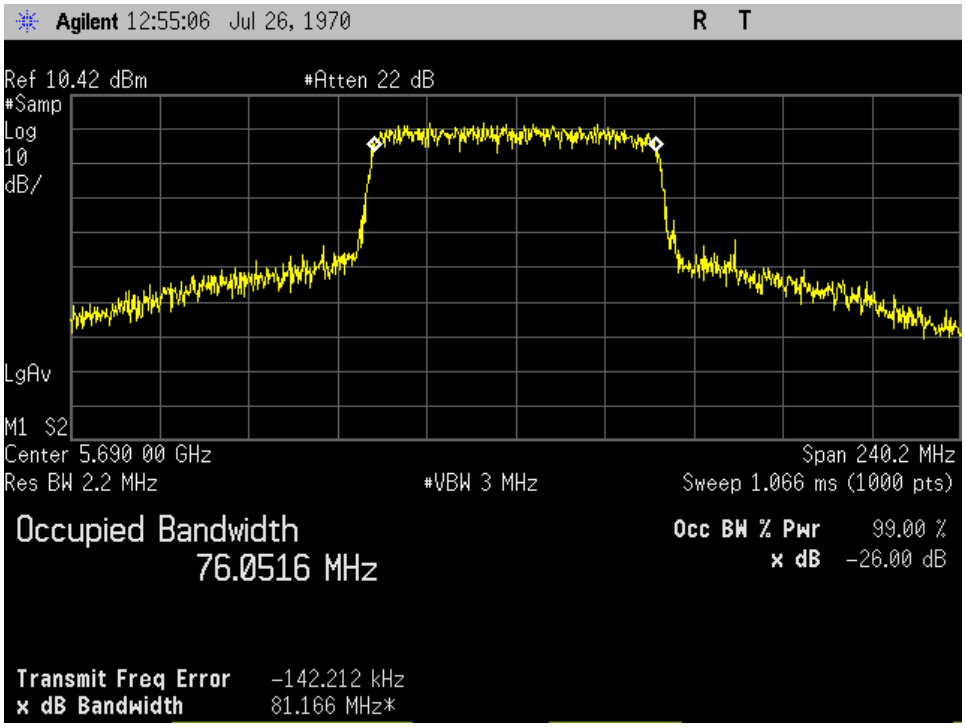


W56_5610MHz_Mid Ch_122_80MHz BW_ac-mode_Occupied Bandwidth_Port 2

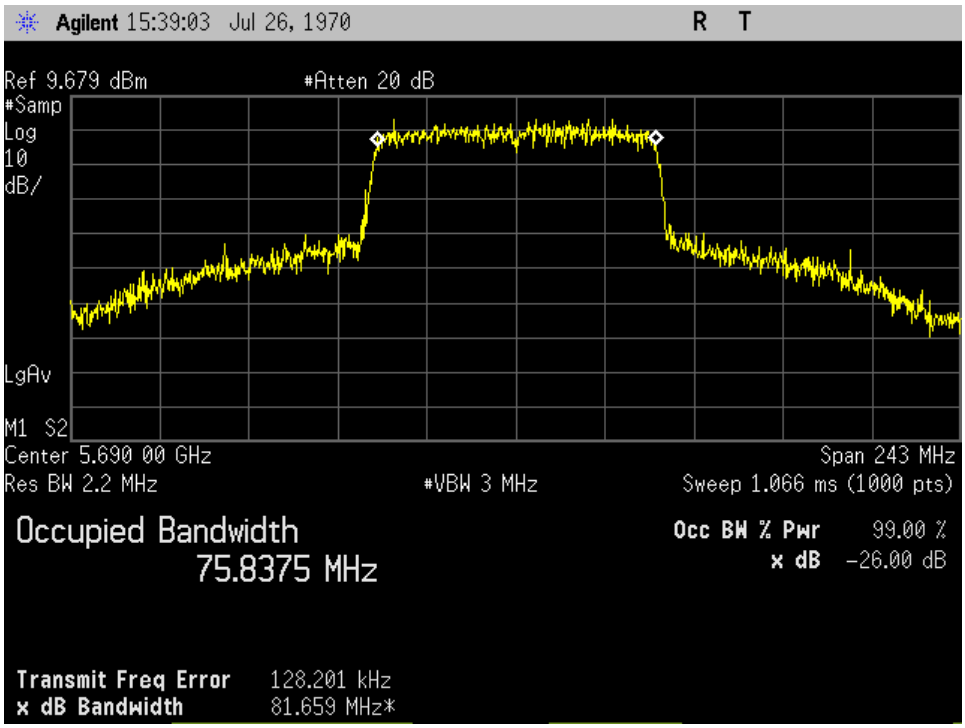


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W56_5690MHz_High Ch_138_80MHz BW_ac-mode_Occupied Bandwidth_Port 1

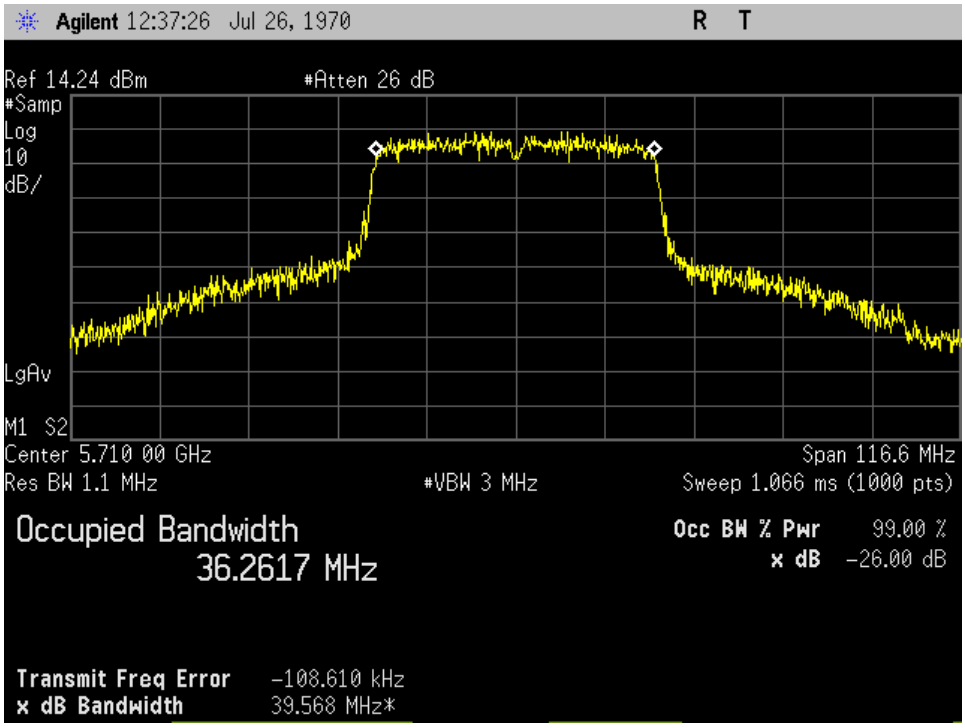


W56_5690MHz_High Ch_138_80MHz BW_ac-mode_Occupied Bandwidth_Port 2

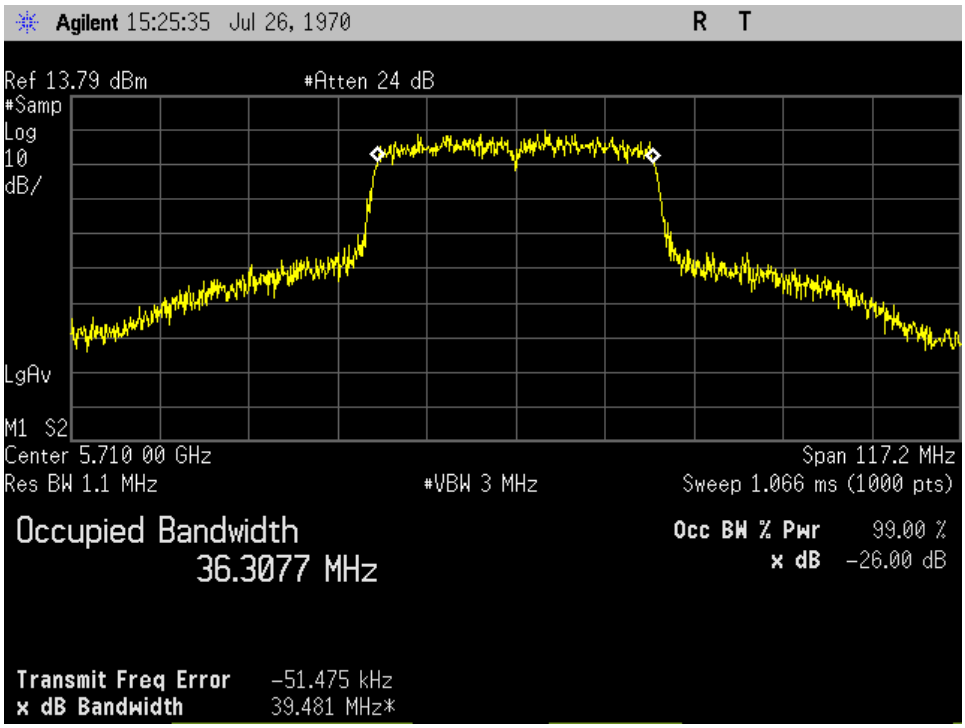


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W56_5710MHz_High Ch_142_40MHz BW_ac-mode_Occupied Bandwidth_Port 1

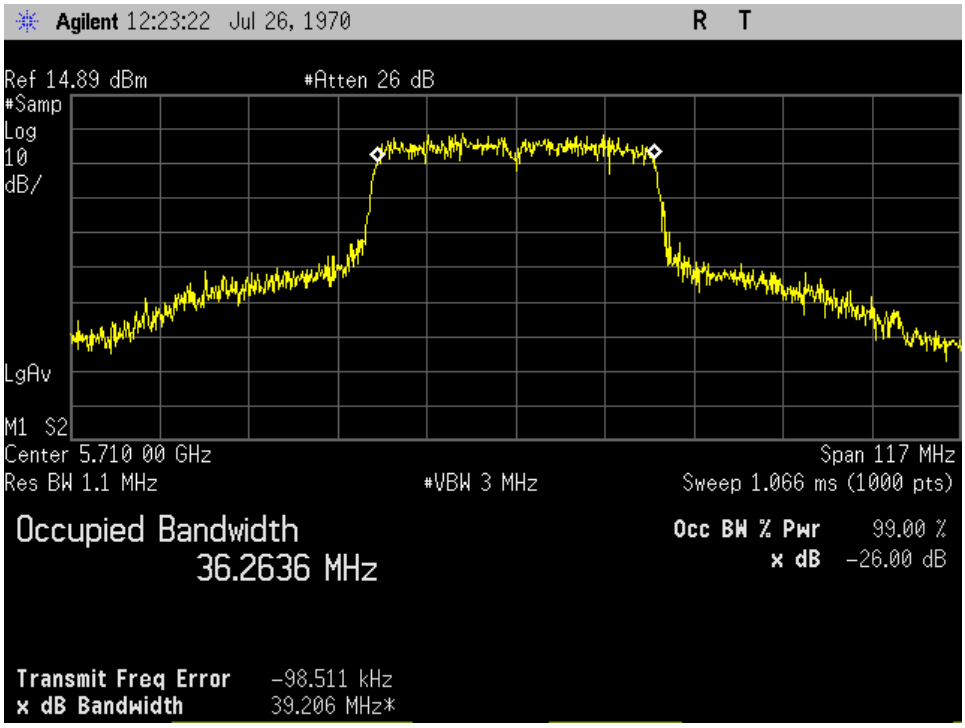


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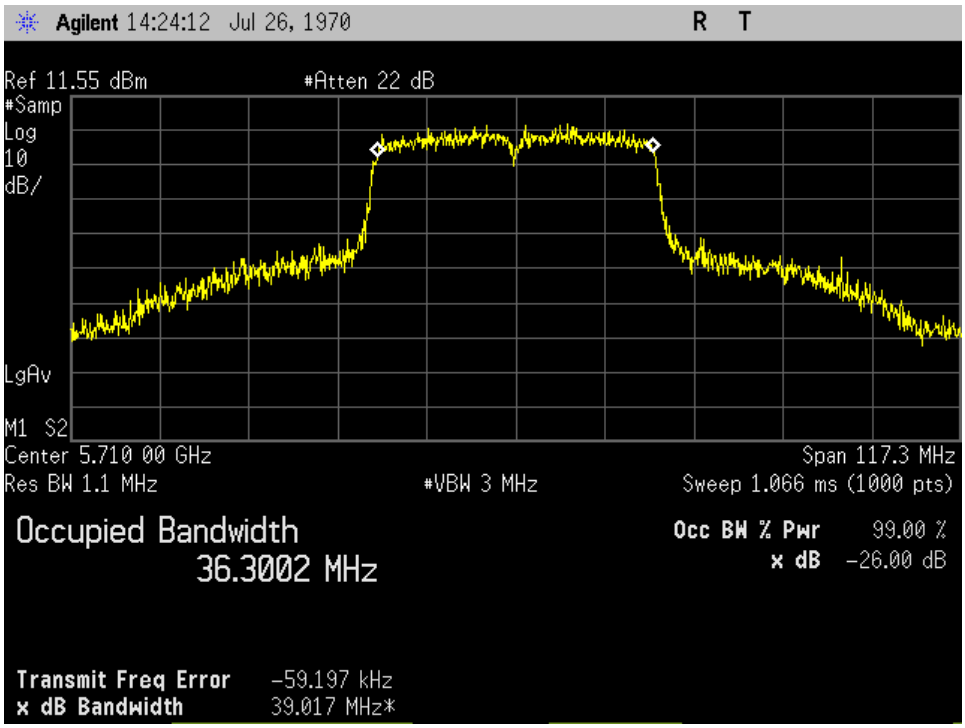


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W56_5710MHz_Low Ch_142_40MHz BW_n-mode_Occupied Bandwidth_Port 1

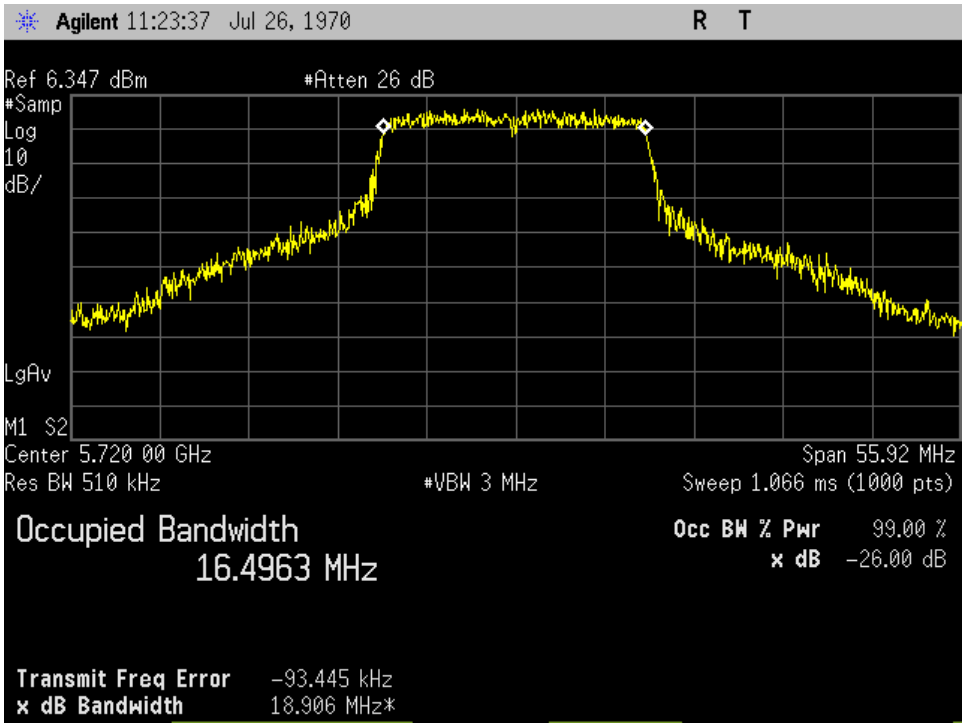


W56_5710MHz_Low Ch_142_40MHz BW_n-mode_Occupied Bandwidth_Port 2

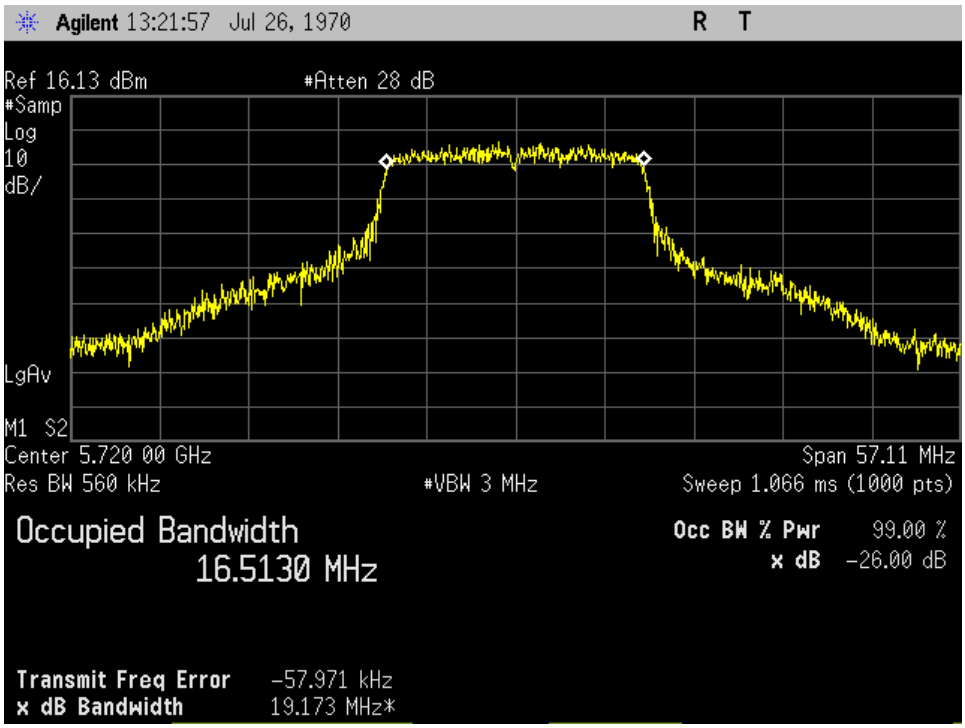


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W56_5720MHz_High Ch_144_20MHz BW_a-mode_Occupied Bandwidth_Port 1

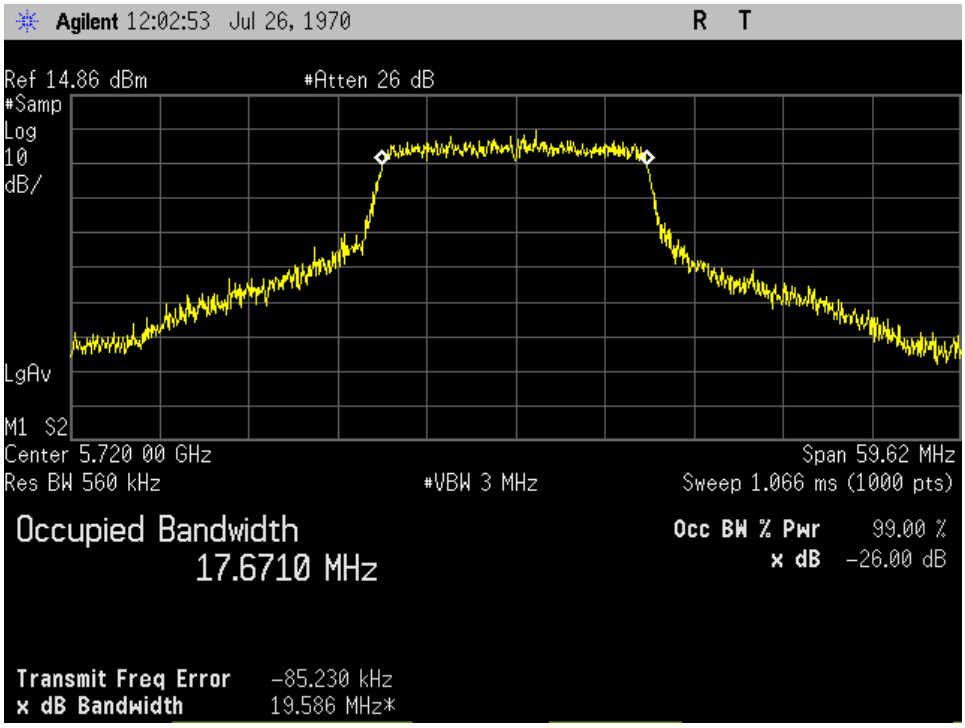


W56_5720MHz_High Ch_144_20MHz BW_a-mode_Occupied Bandwidth_Port 2

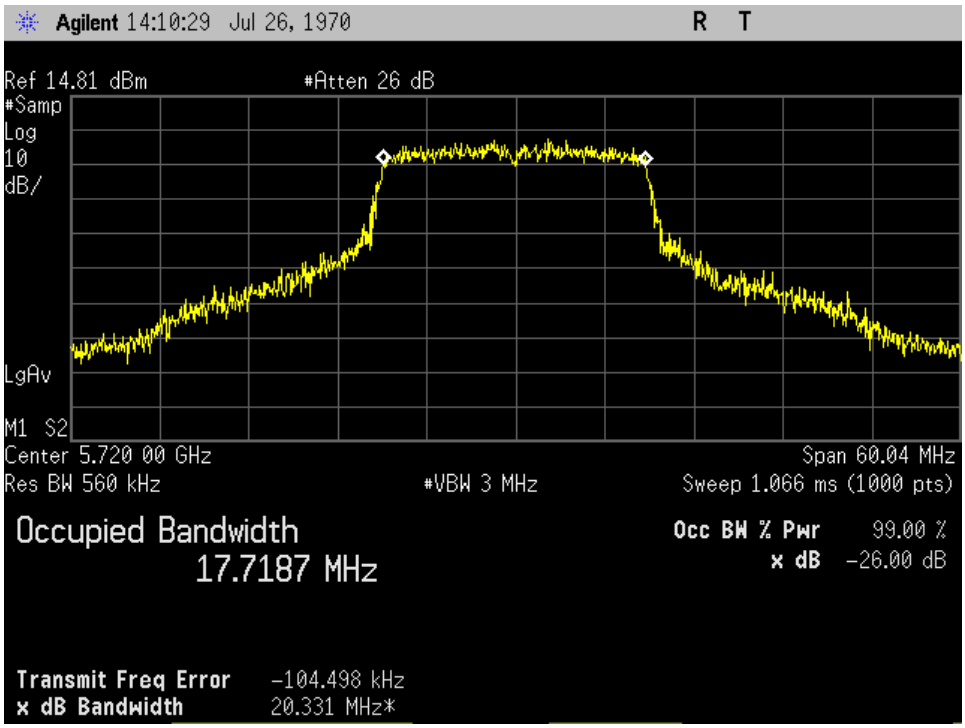


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W56_5720MHz_High Ch_144_20MHz BW_ac-mode_Occupied Bandwidth_Port 1

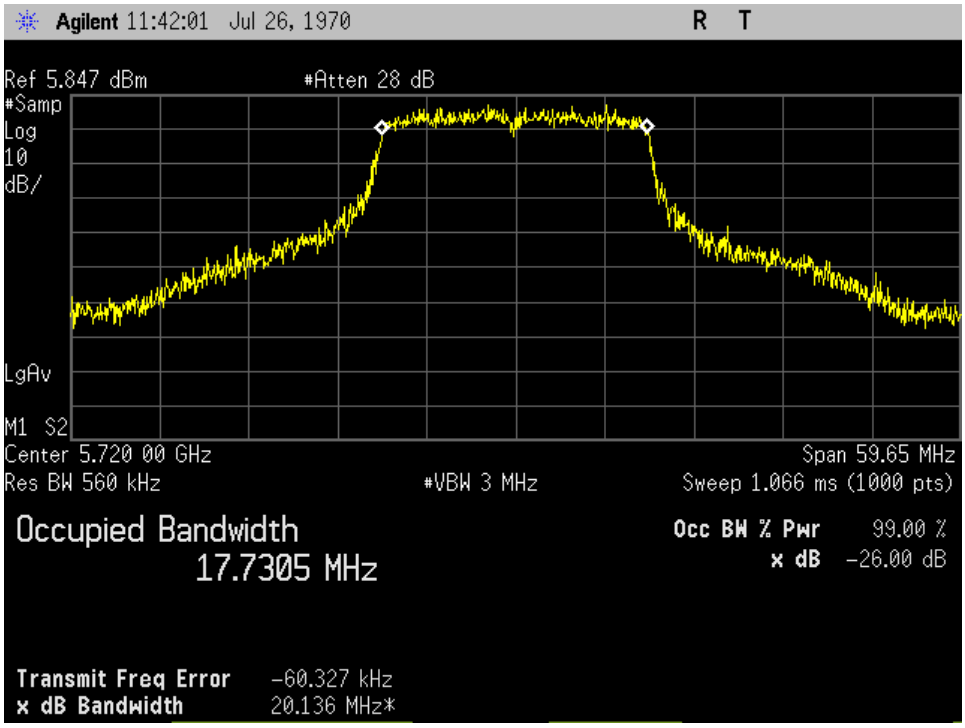


W56_5720MHz_High Ch_144_20MHz BW_ac-mode_Occupied Bandwidth_Port 2

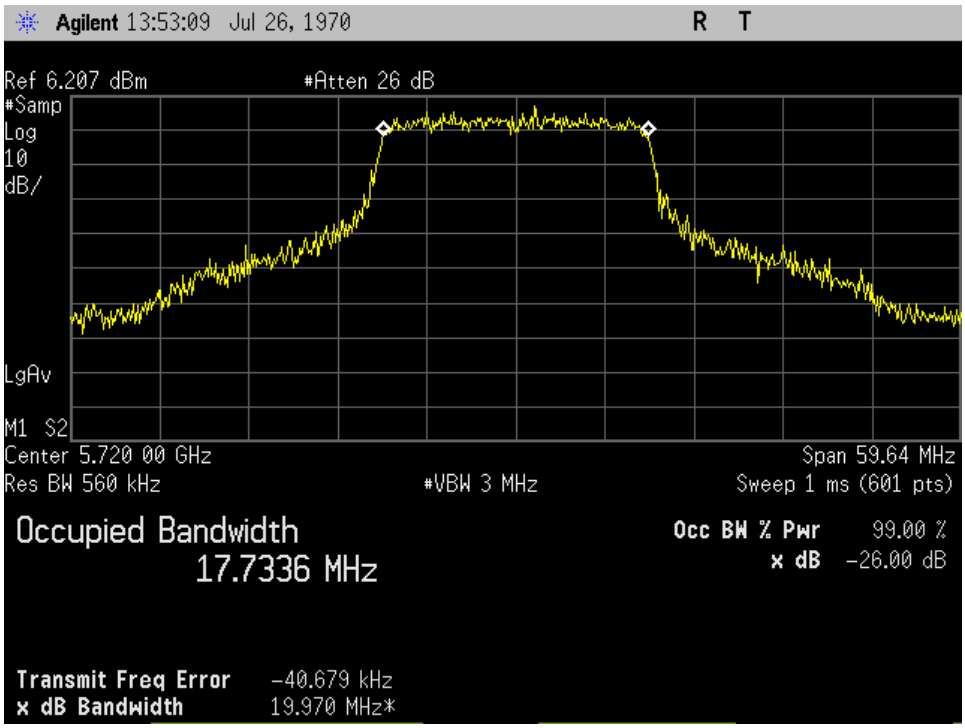


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W56_5720MHz_Low Ch_144_20MHz BW_n-mode_Occupied Bandwidth_Port 1

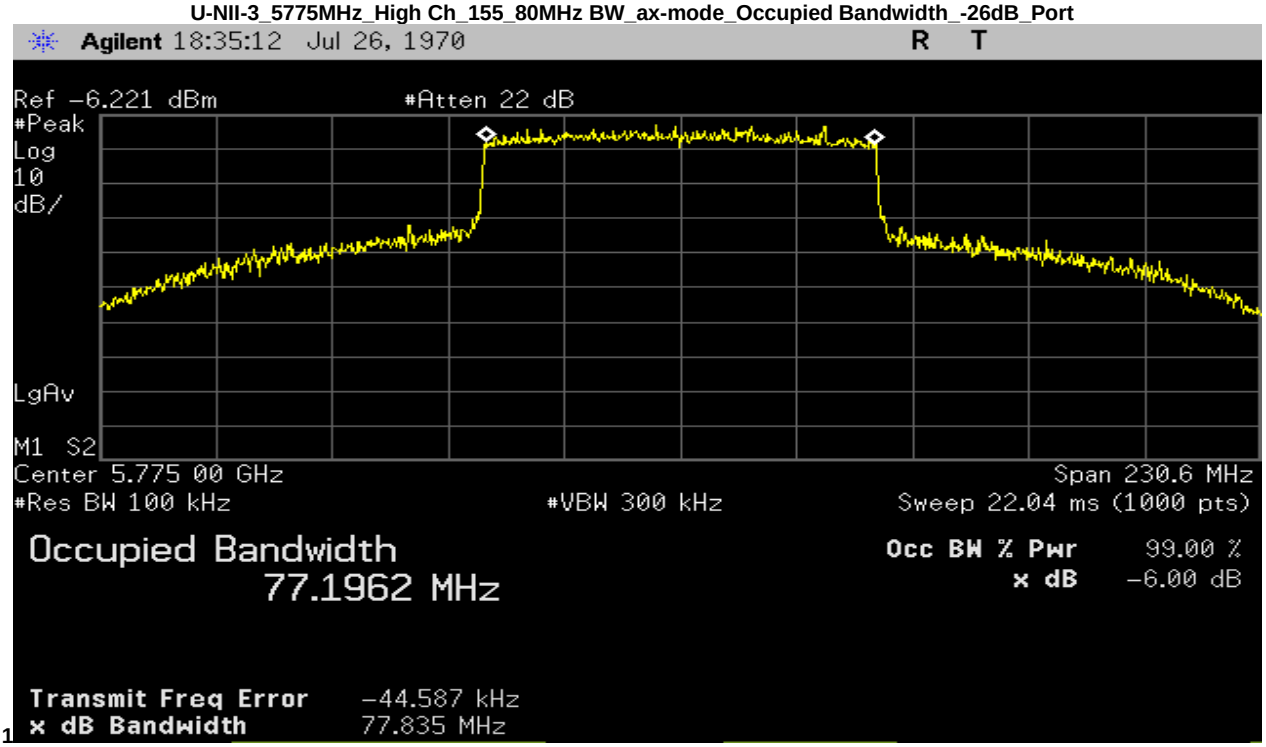


W56_5720MHz_Low Ch_144_20MHz BW_n-mode_Occupied Bandwidth_Port 2

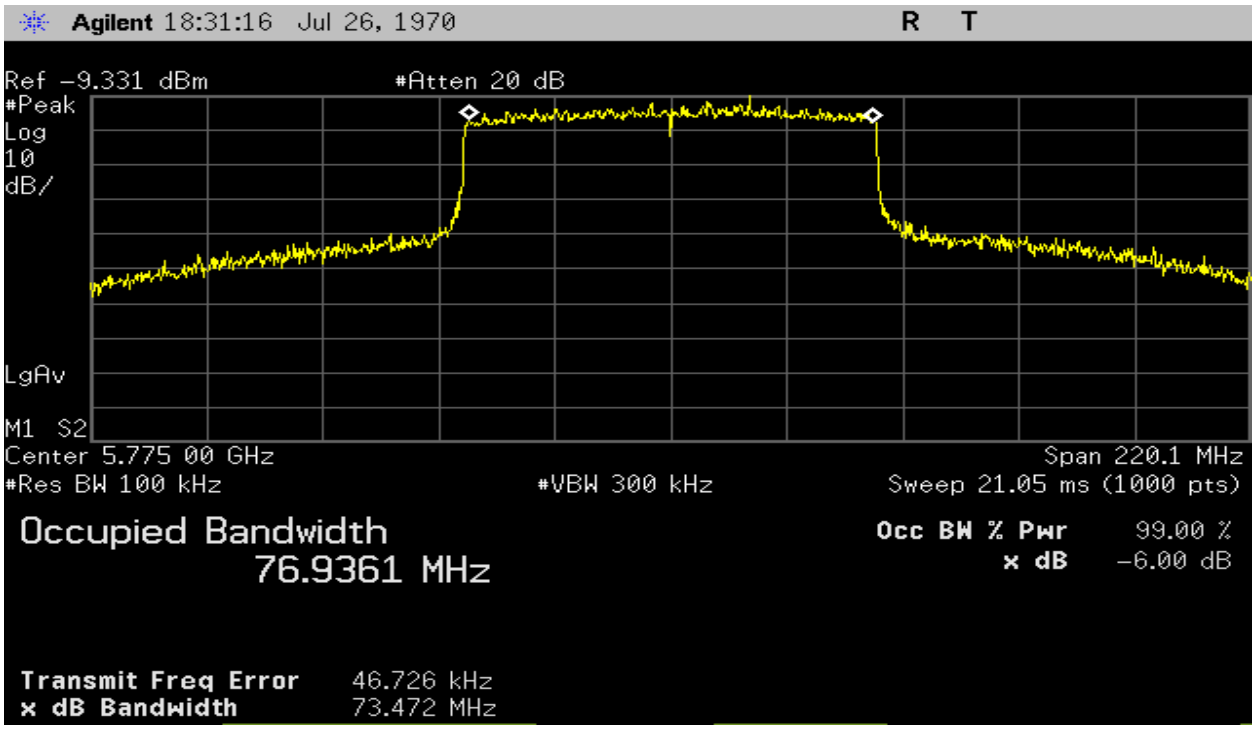


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U-NII-3_5775MHz_High Ch_155_80MHz BW_ax-mode_Occupied Bandwidth_-26dB_Port

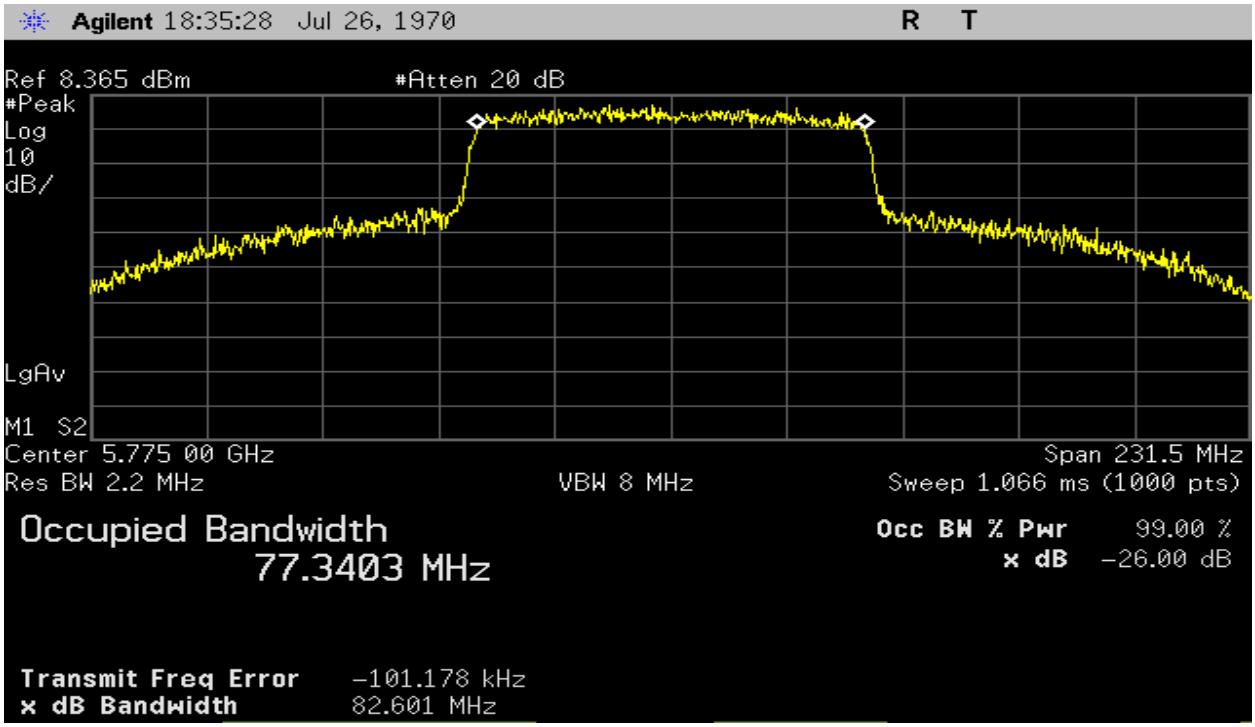


U-NII-3_5775MHz_High Ch_155_80MHz BW_ax-mode_Occupied Bandwidth_-26dB_Port 2

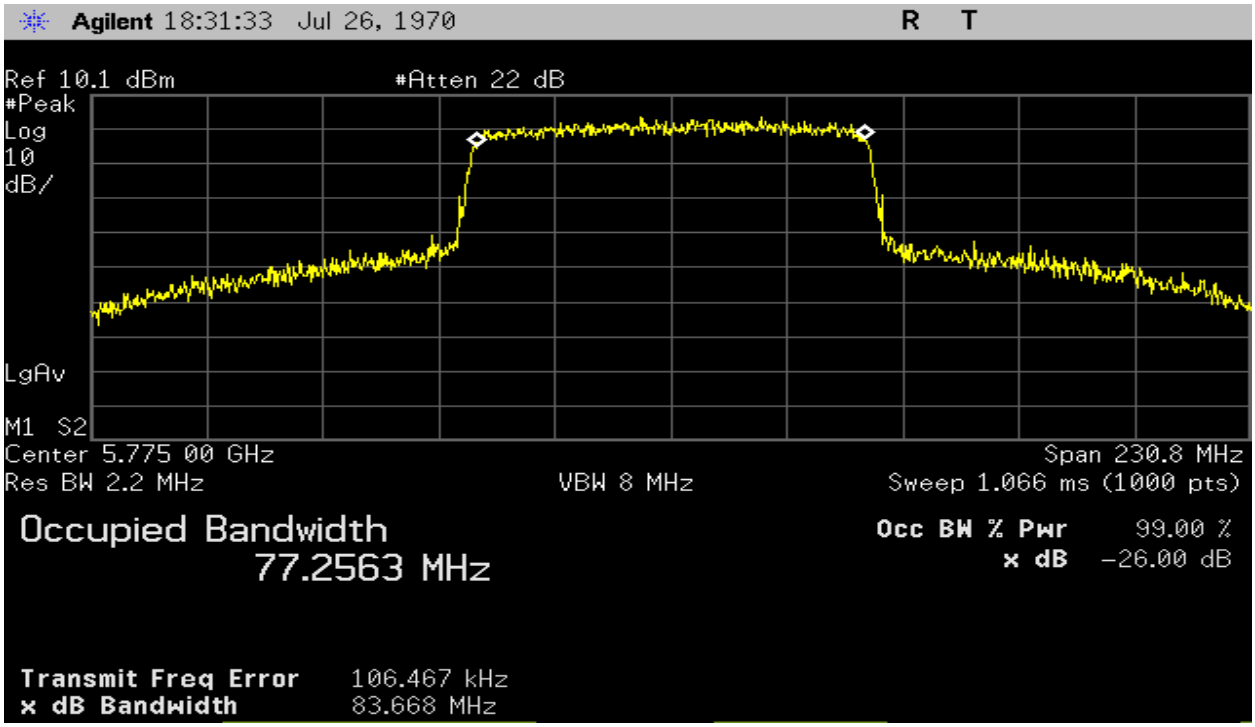


U-NII-3_5775MHz_High Ch_155_80MHz BW_ax-mode_Occupied Bandwidth_99 Percent_Port 1

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U-NII-3_5775MHz_High Ch_155_80MHz BW_ax-mode_Occupied Bandwidth_99 Percent_Port 2

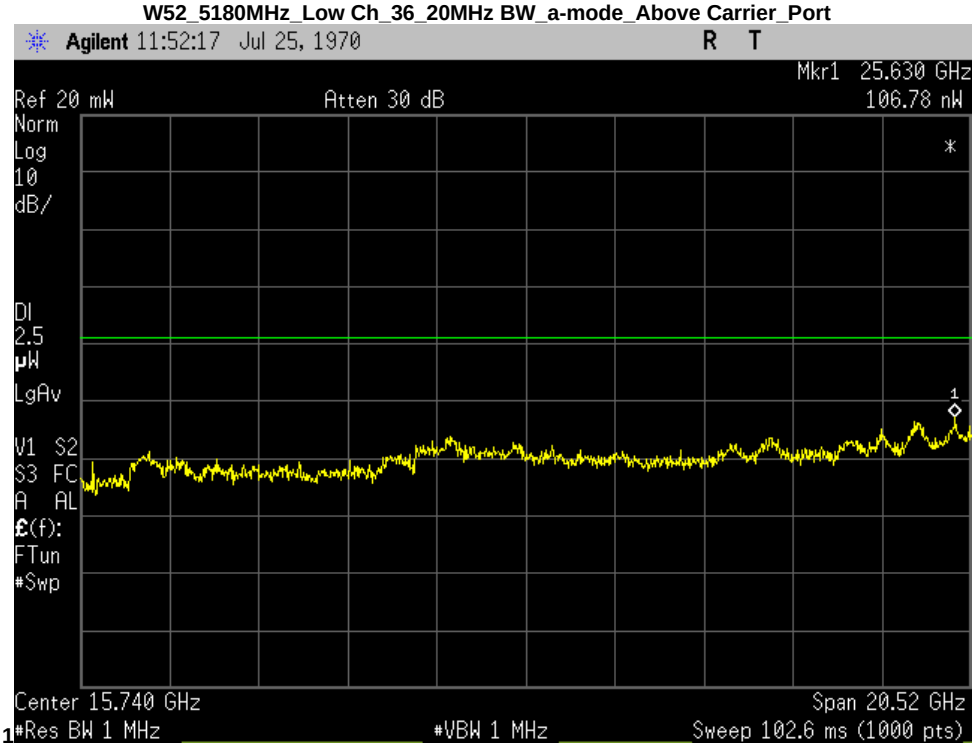


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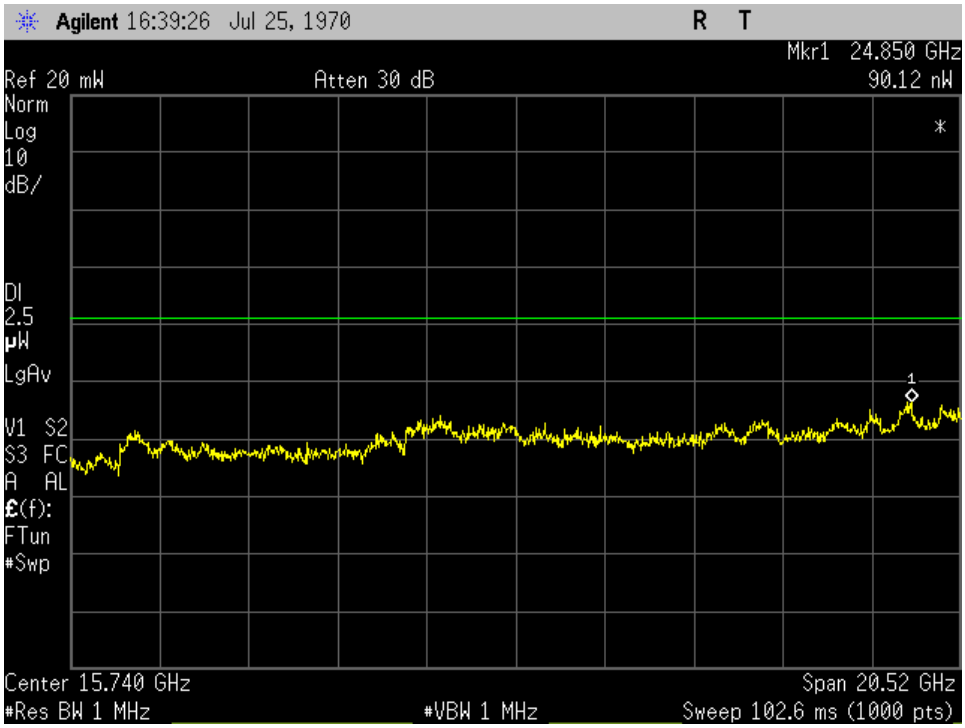
Spurious Emission Plots (Band W52)

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W52_5180MHz_Low Ch_36_20MHz BW_a-mode_Above Carrier_Port

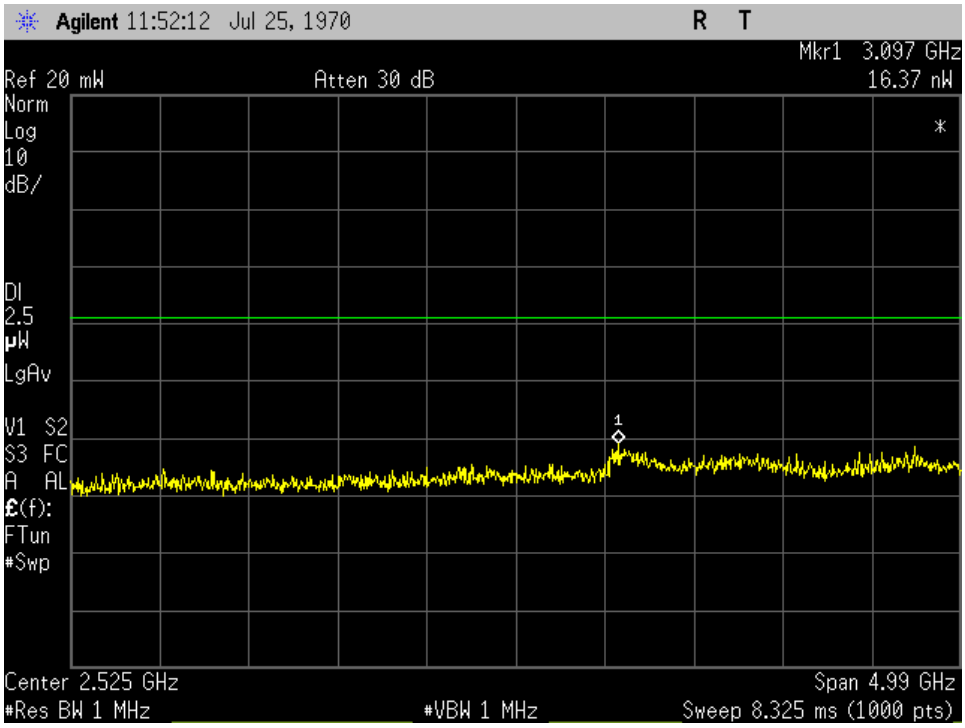


W52_5180MHz_Low Ch_36_20MHz BW_a-mode_Above Carrier_Port 2

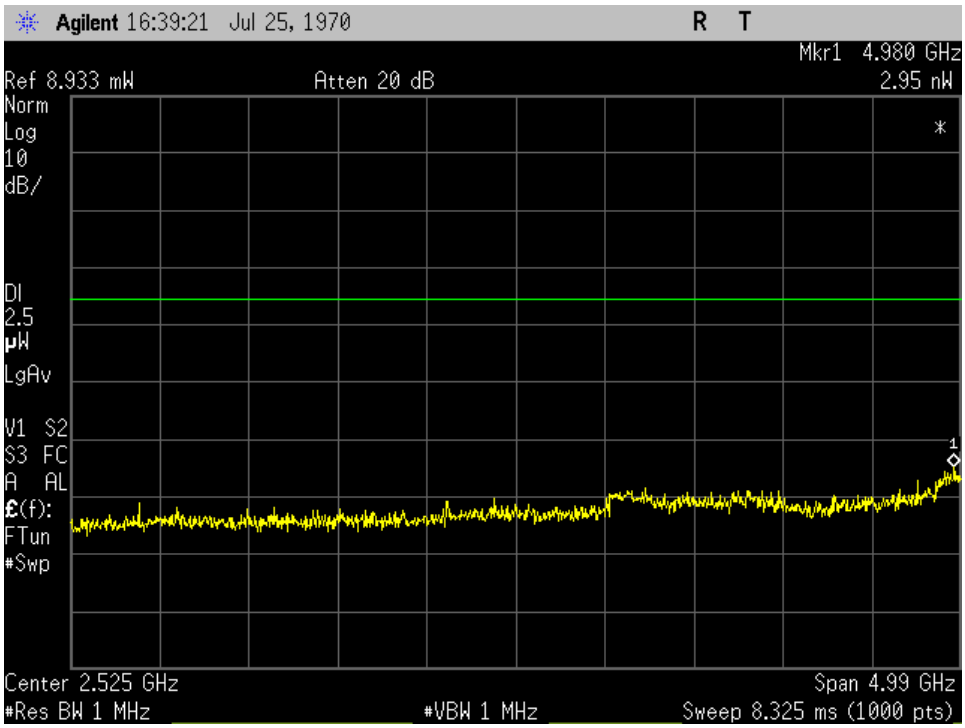


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W52_5180MHz_Low Ch_36_20MHz BW_a-mode_Below Carrier_Port 1

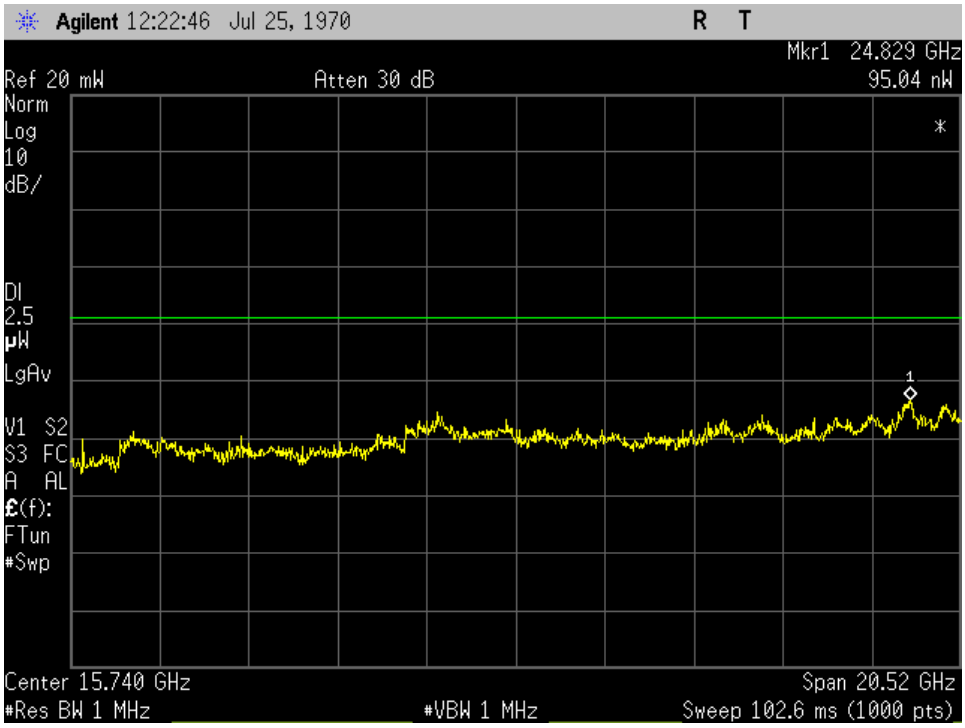


W52_5180MHz_Low Ch_36_20MHz BW_a-mode_Below Carrier_Port 2

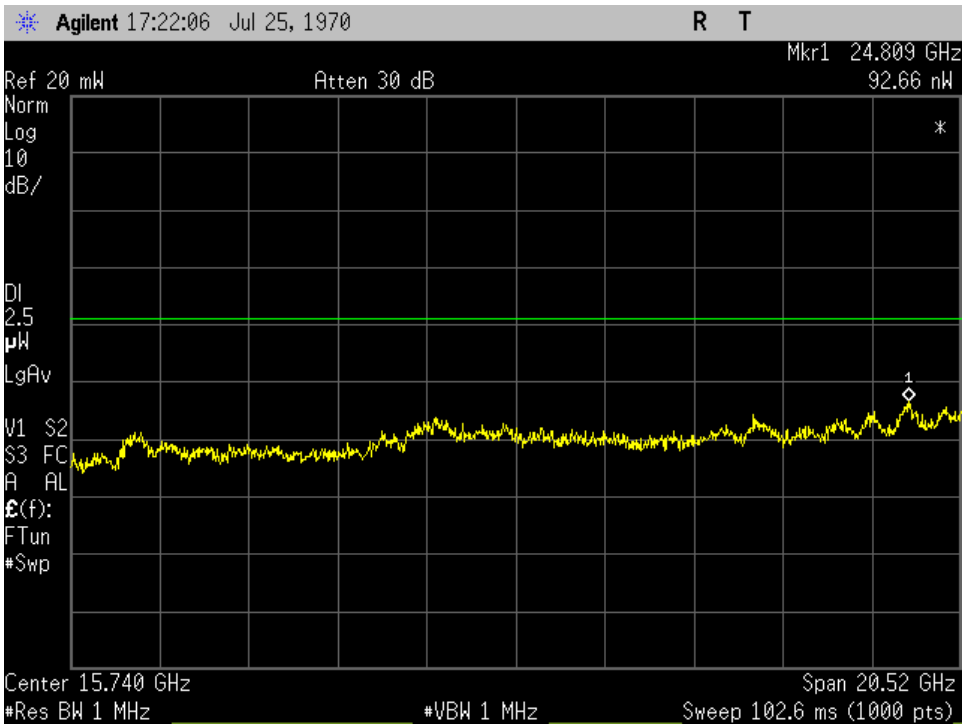


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W52_5180MHz_Low Ch_36_20MHz BW_n-mode_Above Carrier_Port 1

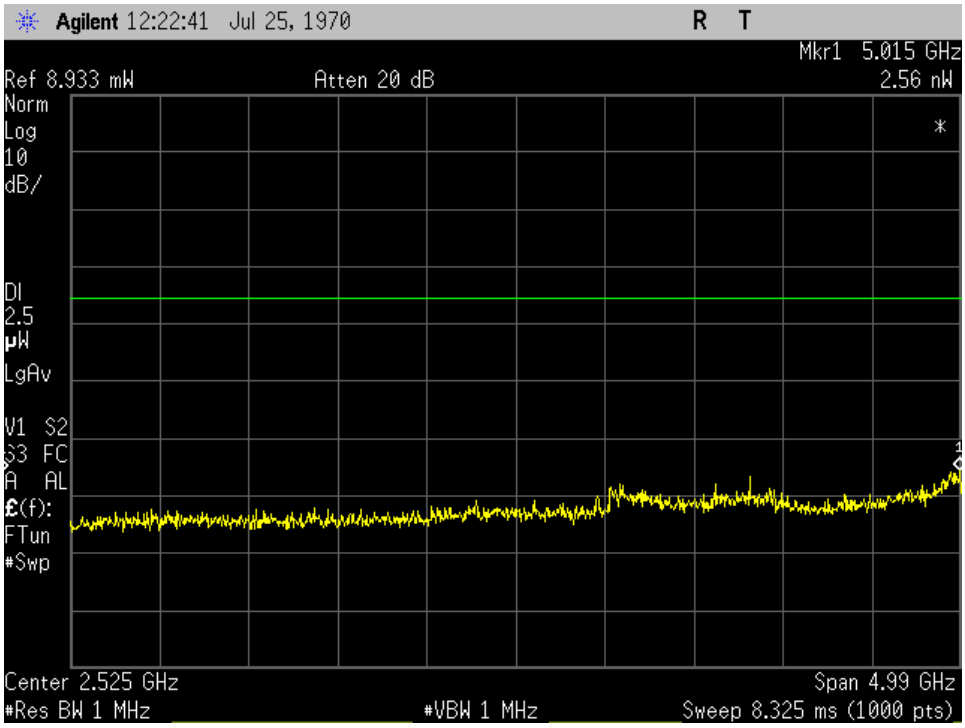


W52_5180MHz_Low Ch_36_20MHz BW_n-mode_Above Carrier_Port 2

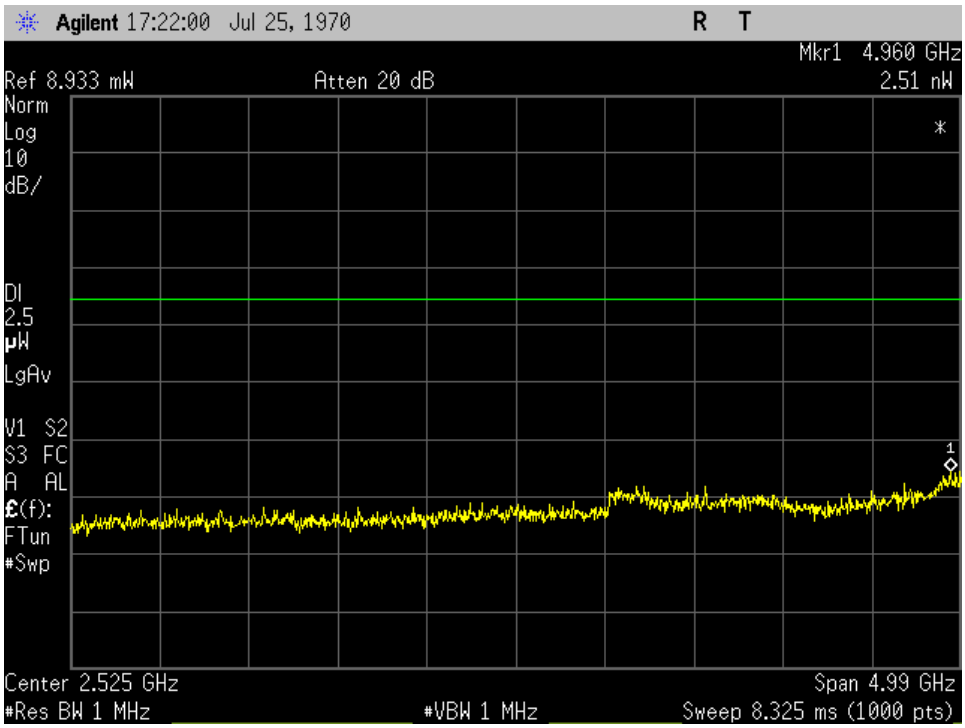


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W52_5180MHz_Low Ch_36_20MHz BW_n-mode_Below Carrier_Port 1

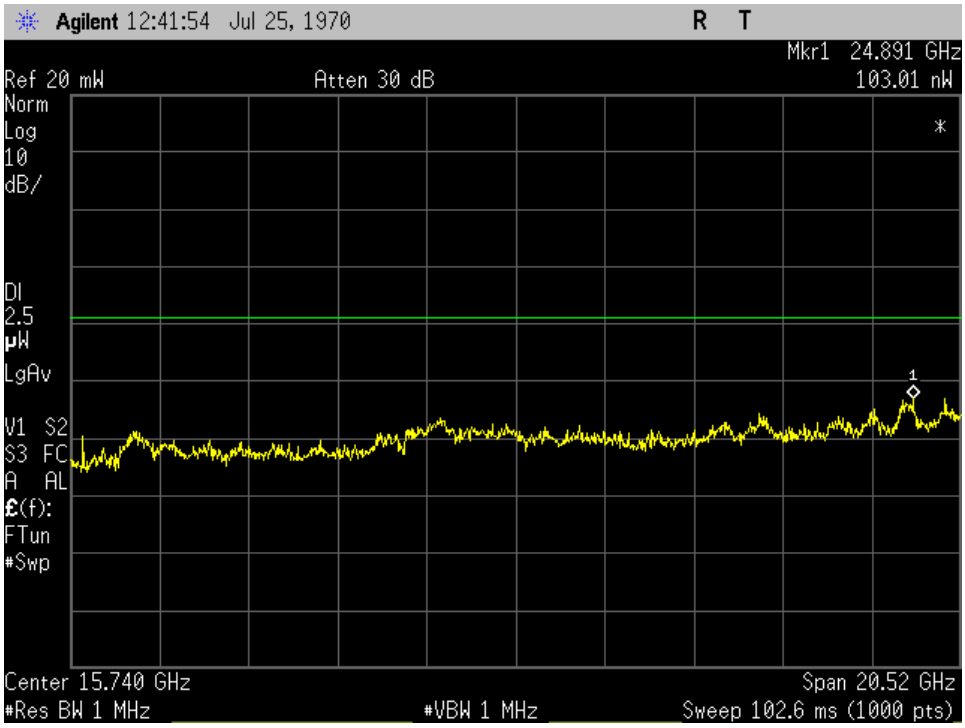


W52_5180MHz_Low Ch_36_20MHz BW_n-mode_Below Carrier_Port 2

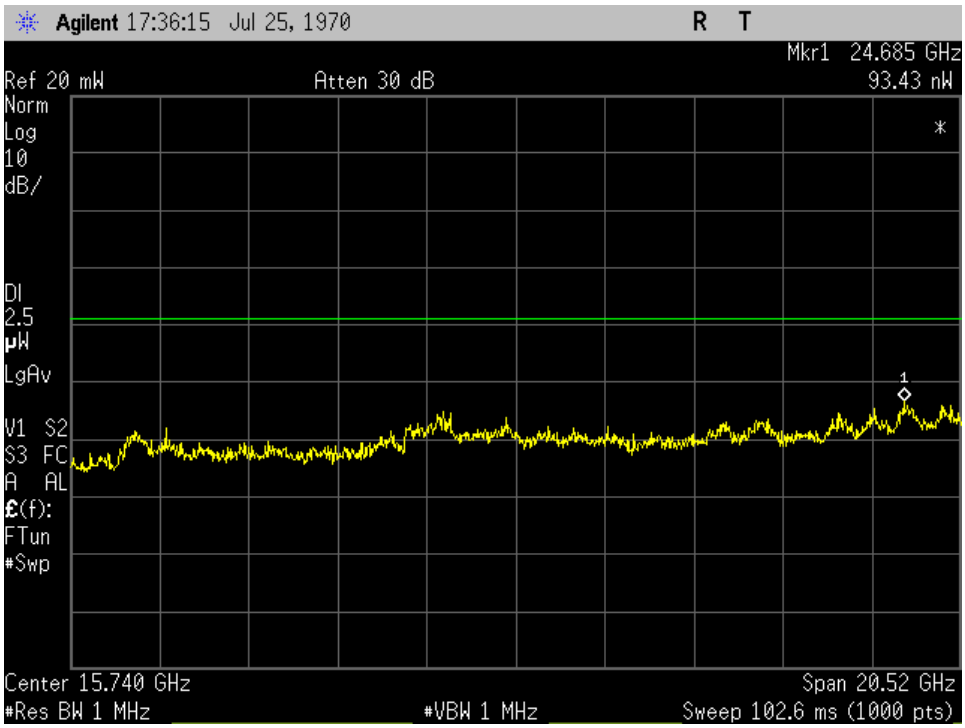


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W52_5190MHz_Low Ch_38_40MHz BW_n-mode_Above Carrier_Port 1

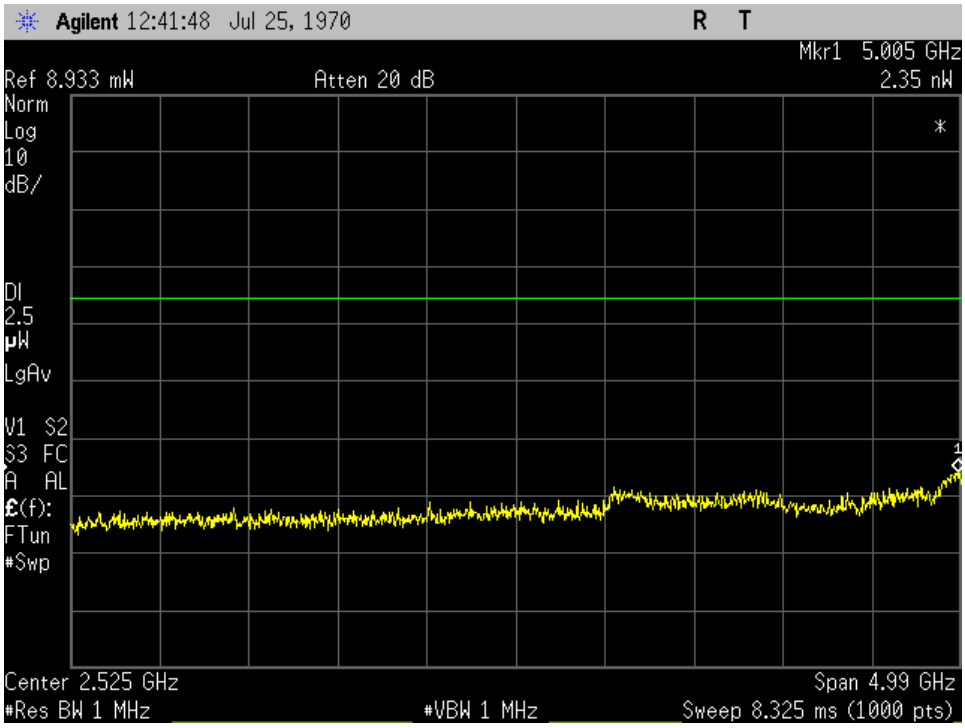


W52_5190MHz_Low Ch_38_40MHz BW_n-mode_Above Carrier_Port 2

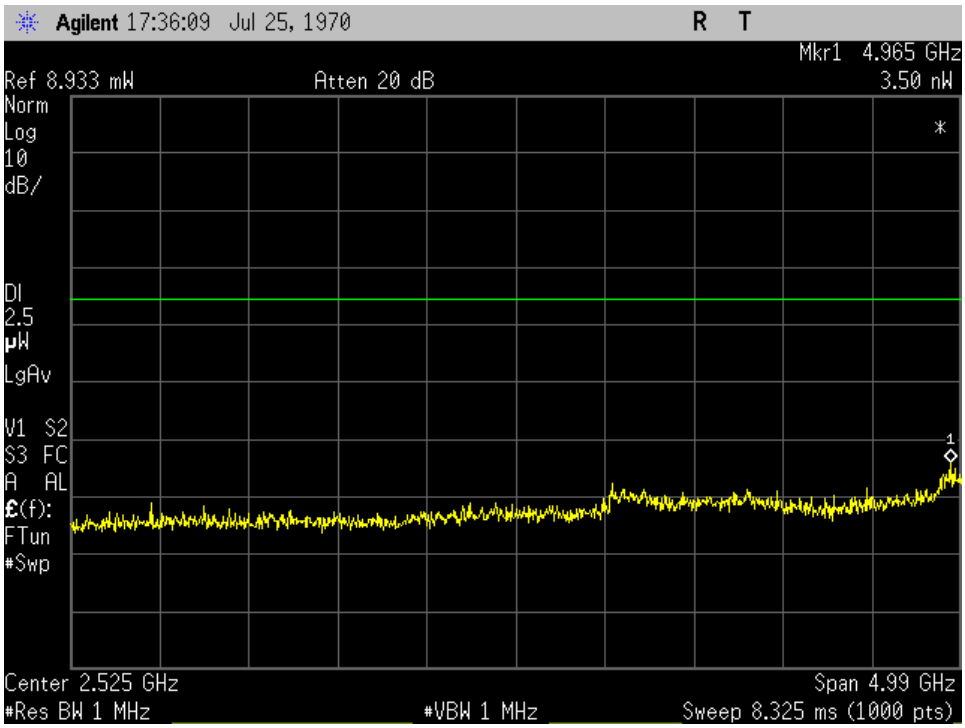


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W52_5190MHz_Low Ch_38_40MHz BW_n-mode_Below Carrier_Port 1

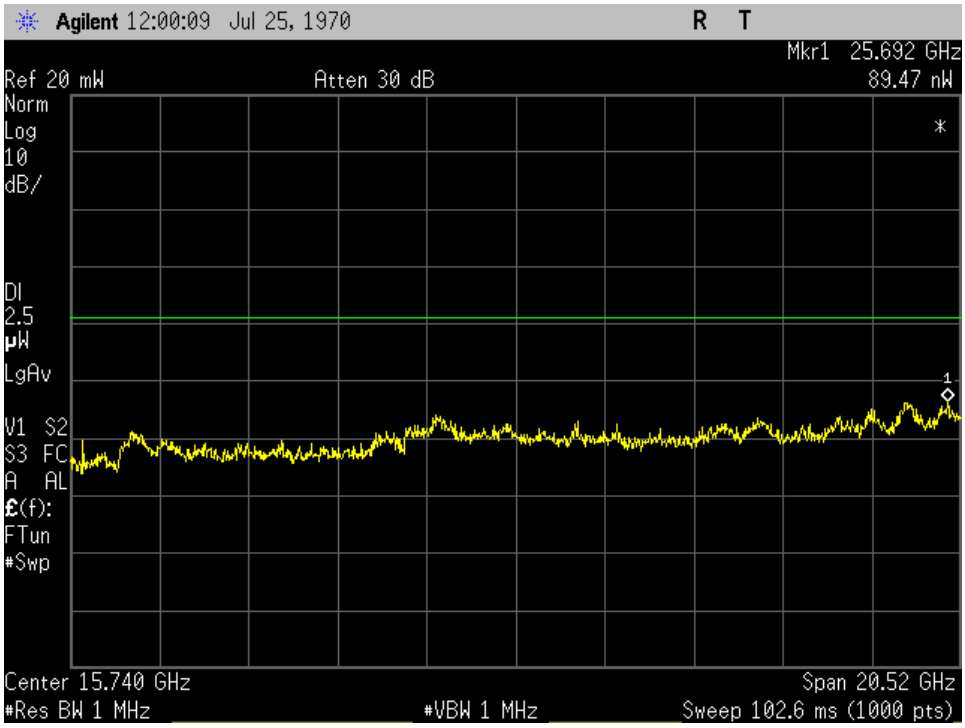


W52_5190MHz_Low Ch_38_40MHz BW_n-mode_Below Carrier_Port 2

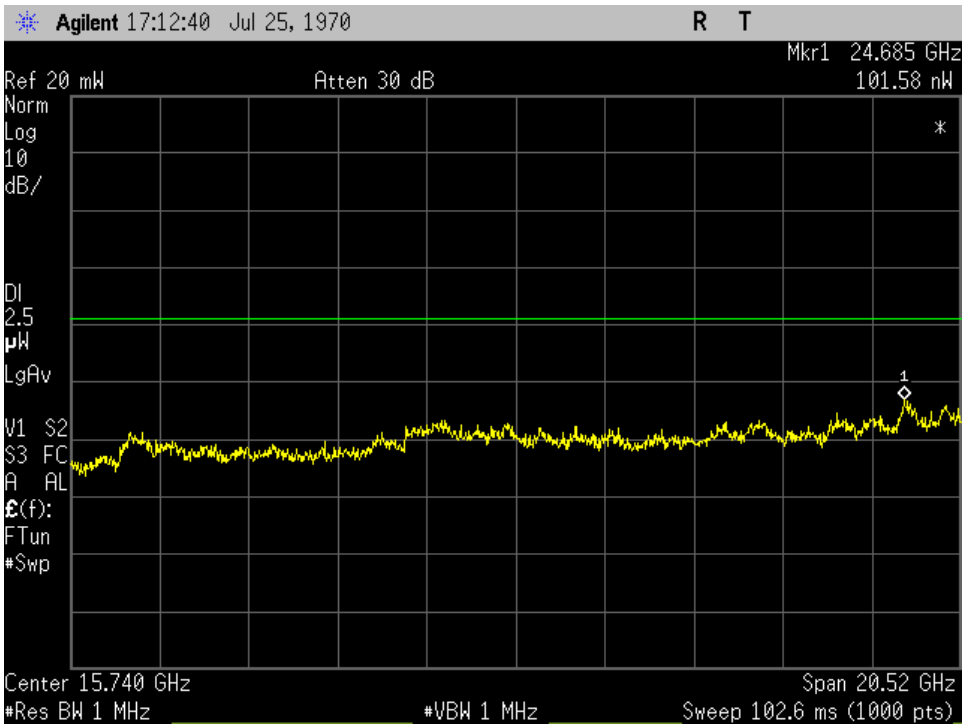


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W52_5200MHz_low_mid Ch_40_20MHz BW_a-mode_Above Carrier_Port 1

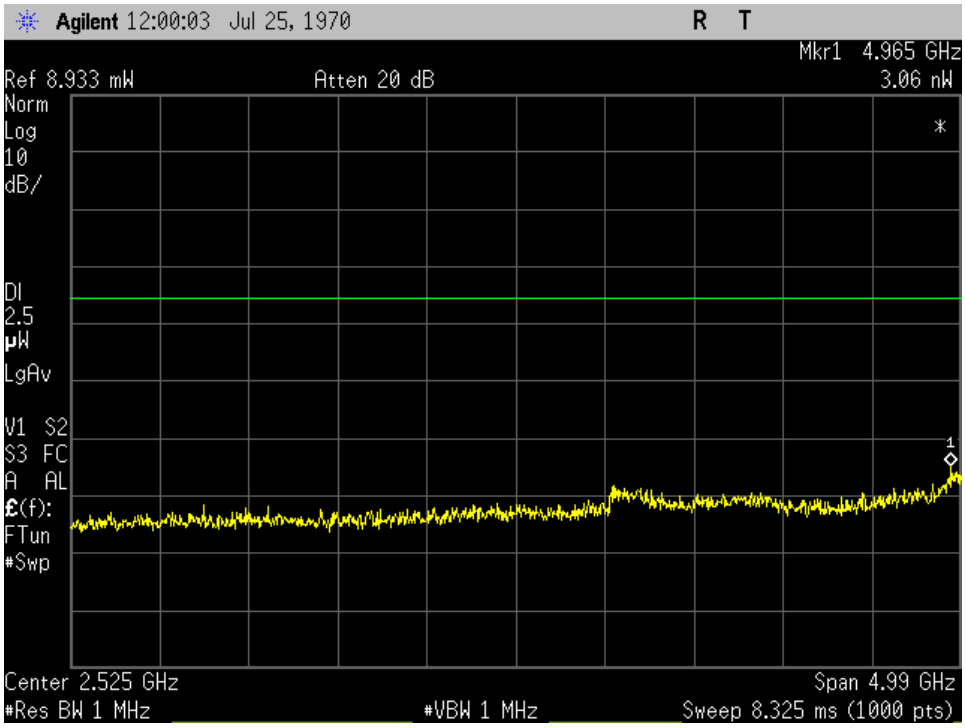


W52_5200MHz_low_mid Ch_40_20MHz BW_a-mode_Above Carrier_Port 2

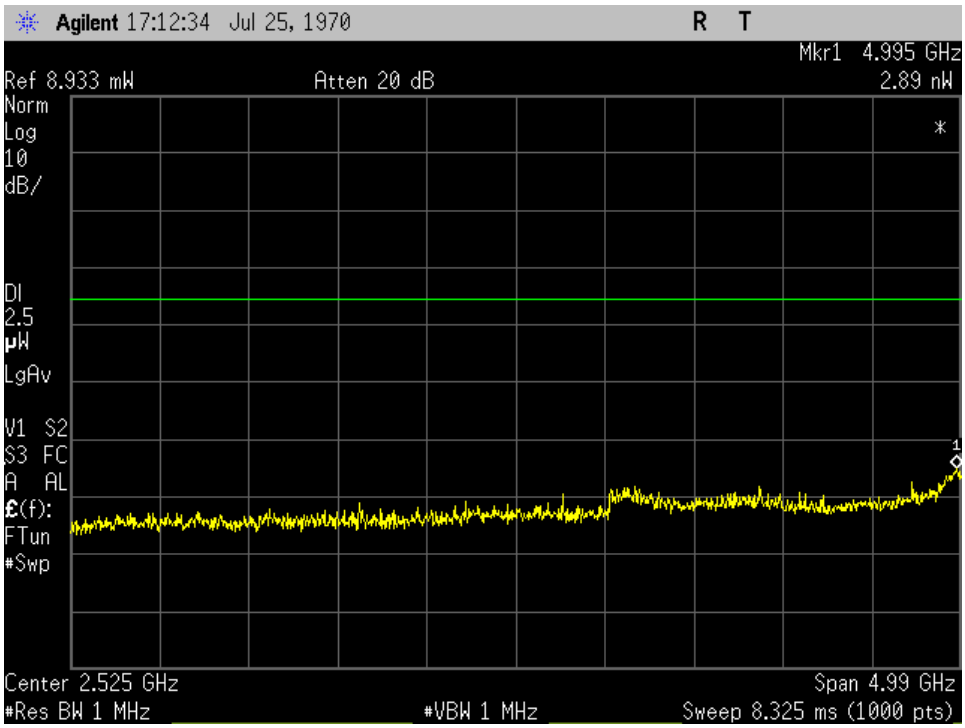


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W52_5200MHz_low_mid Ch_40_20MHz BW_a-mode_Below Carrier_Port 1

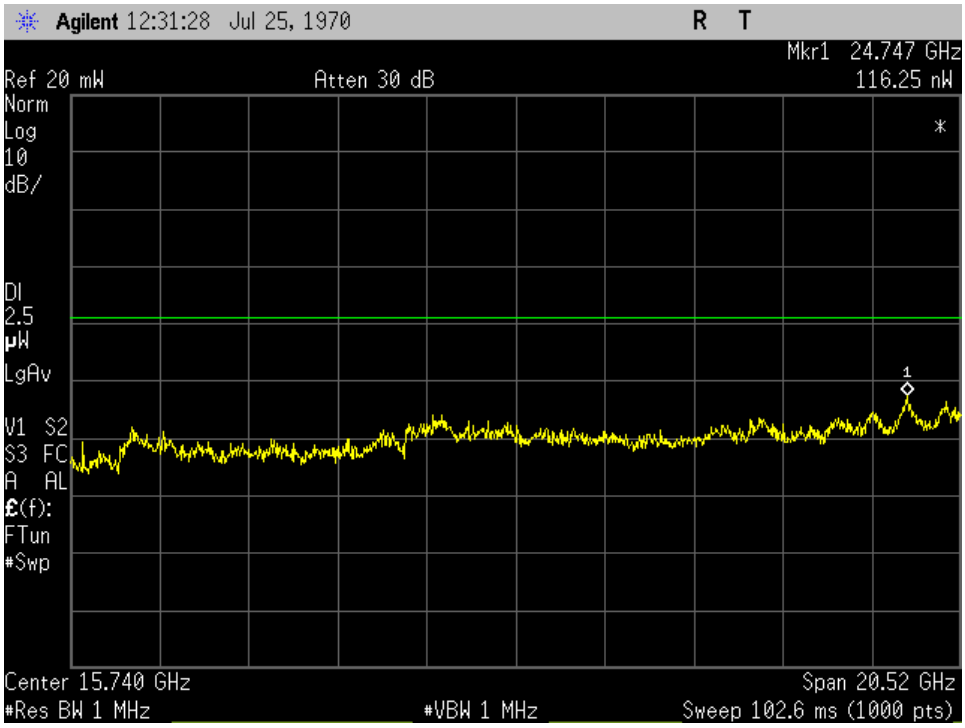


W52_5200MHz_low_mid Ch_40_20MHz BW_a-mode_Below Carrier_Port 2

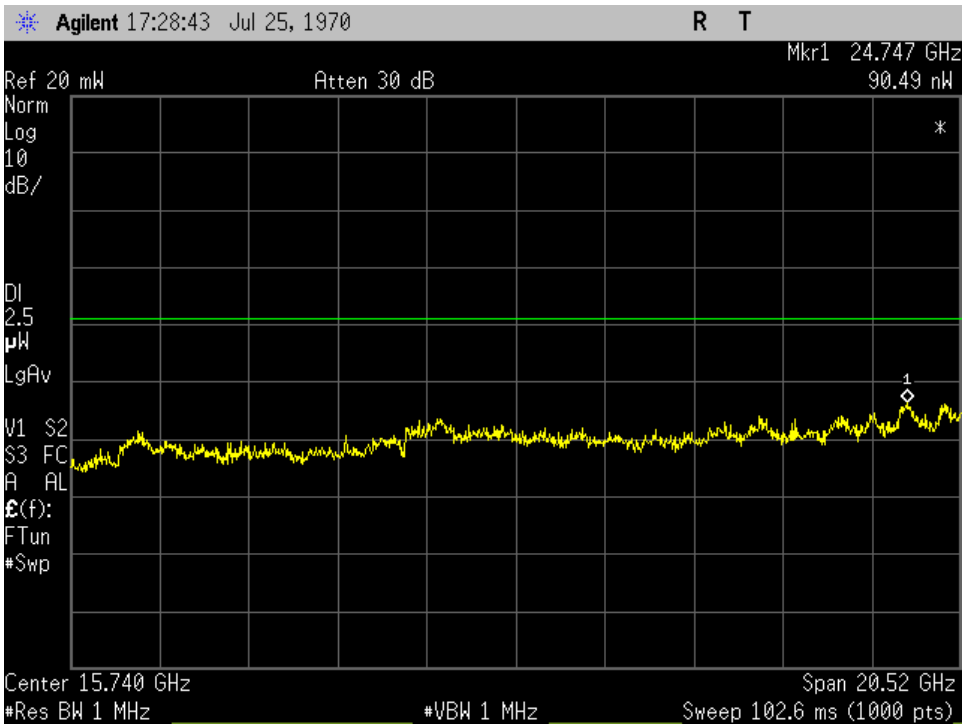


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W52_5200MHz_low_mid Ch_40_20MHz BW_n-mode_Above Carrier_Port 1

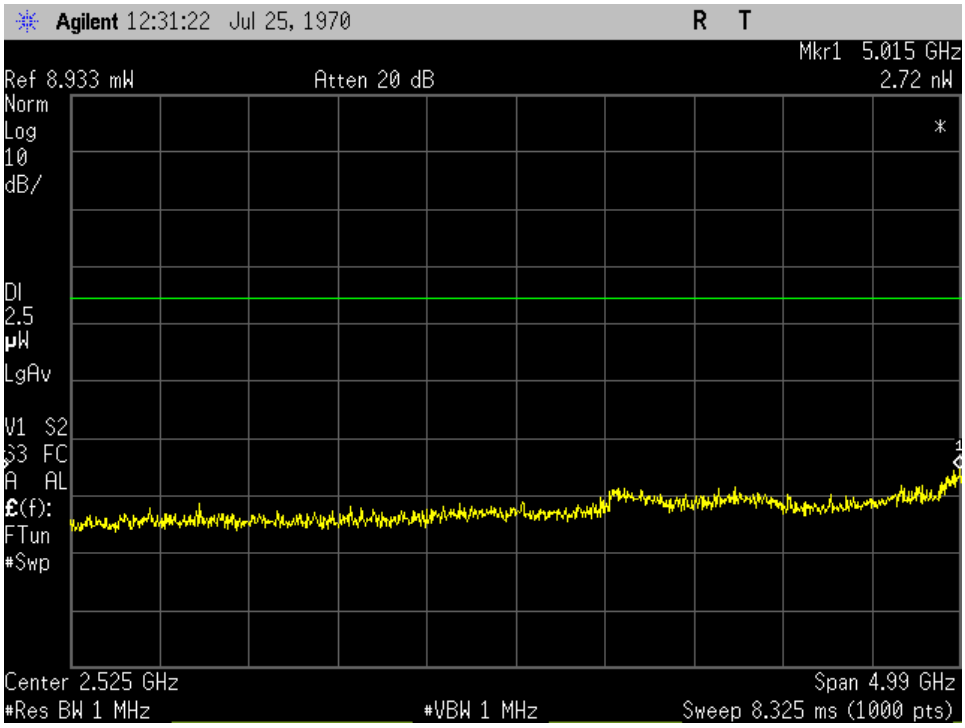


W52_5200MHz_low_mid Ch_40_20MHz BW_n-mode_Above Carrier_Port 2

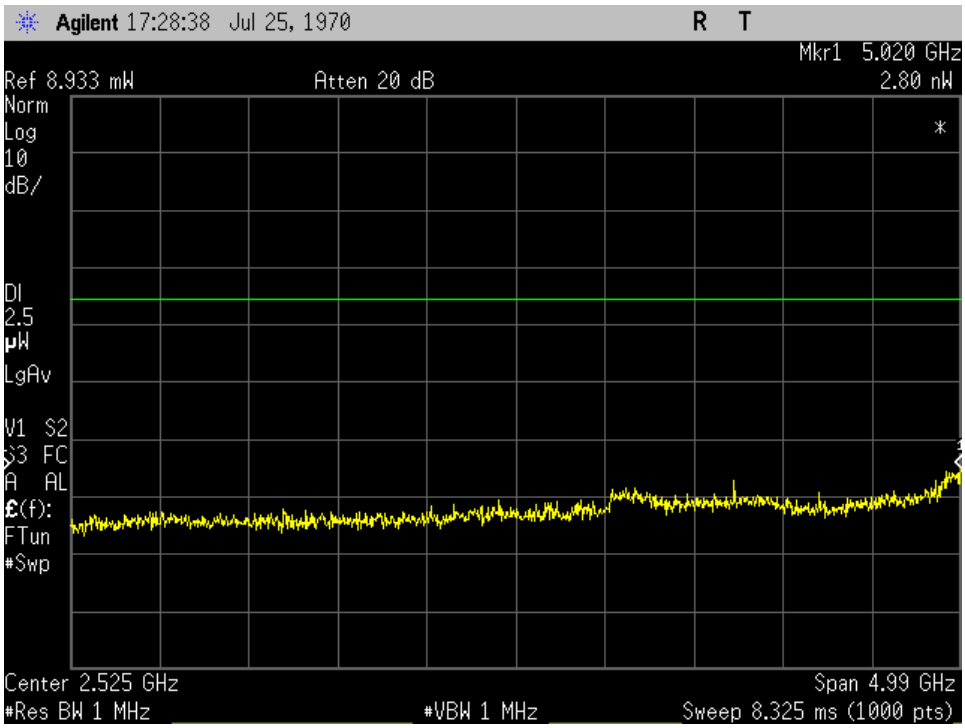


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W52_5200MHz_low_mid Ch_40_20MHz BW_n-mode_Below Carrier_Port 1

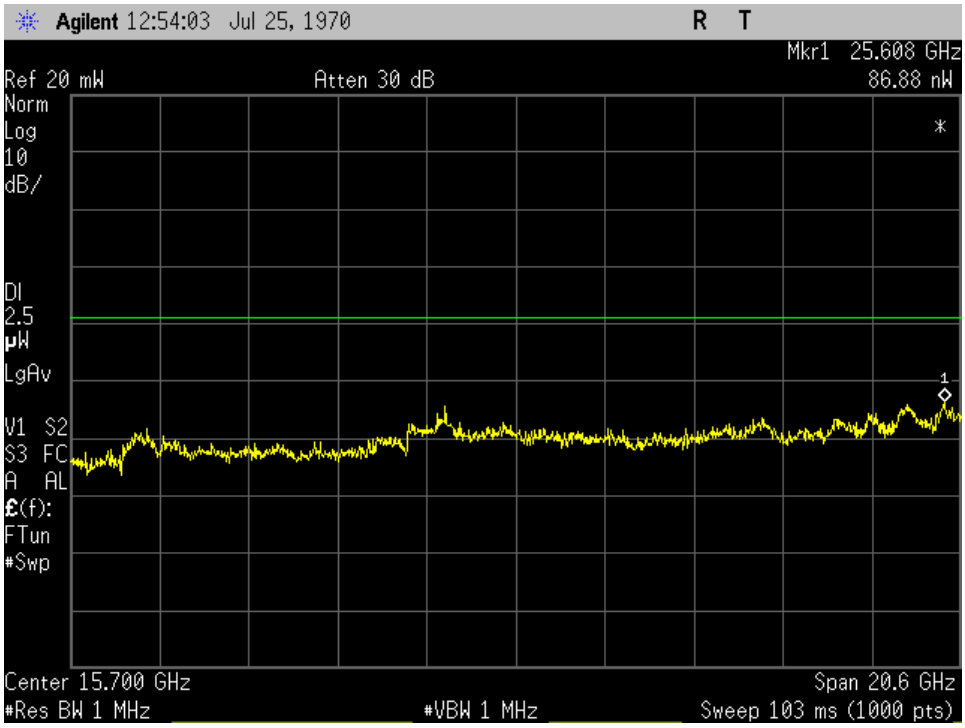


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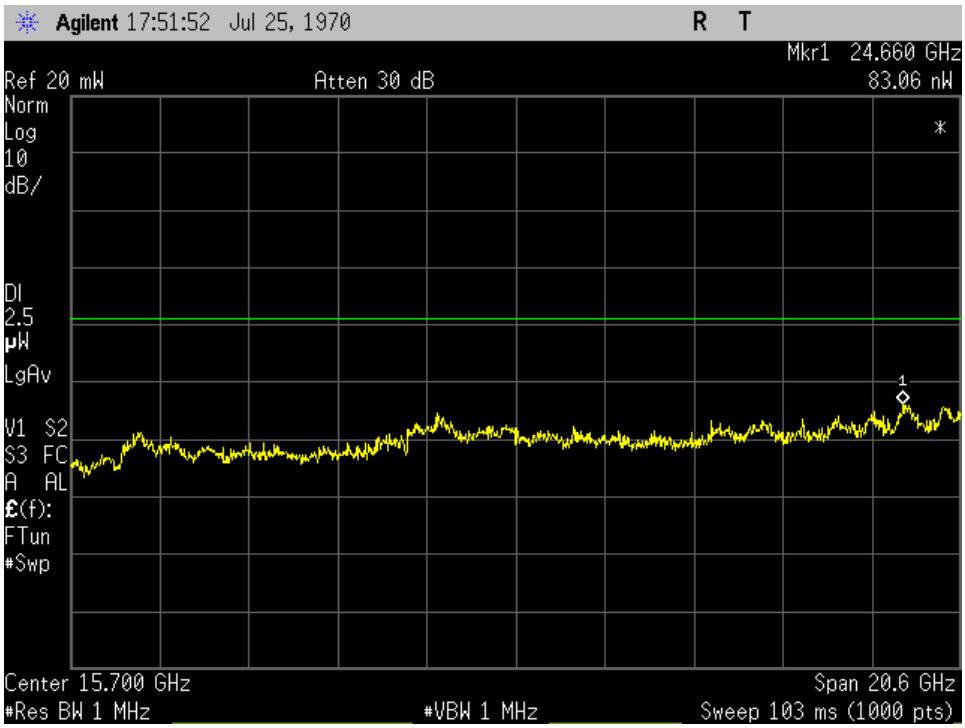


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W52_5210MHz_Low mid Ch_42_80MHz BW_ac-mode_Above Carrier_Port 1

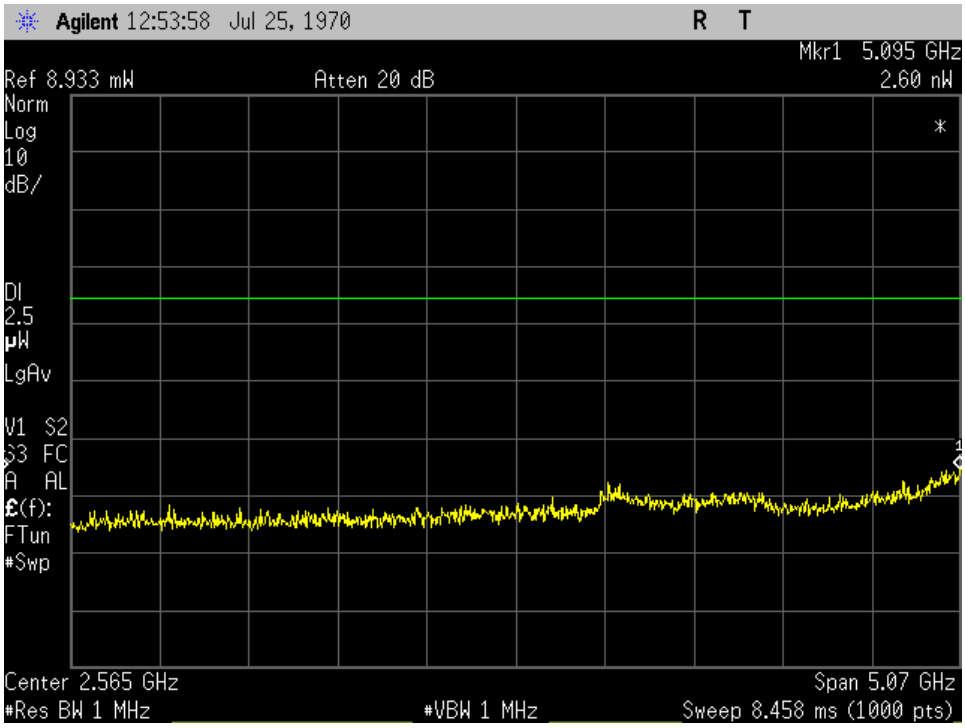


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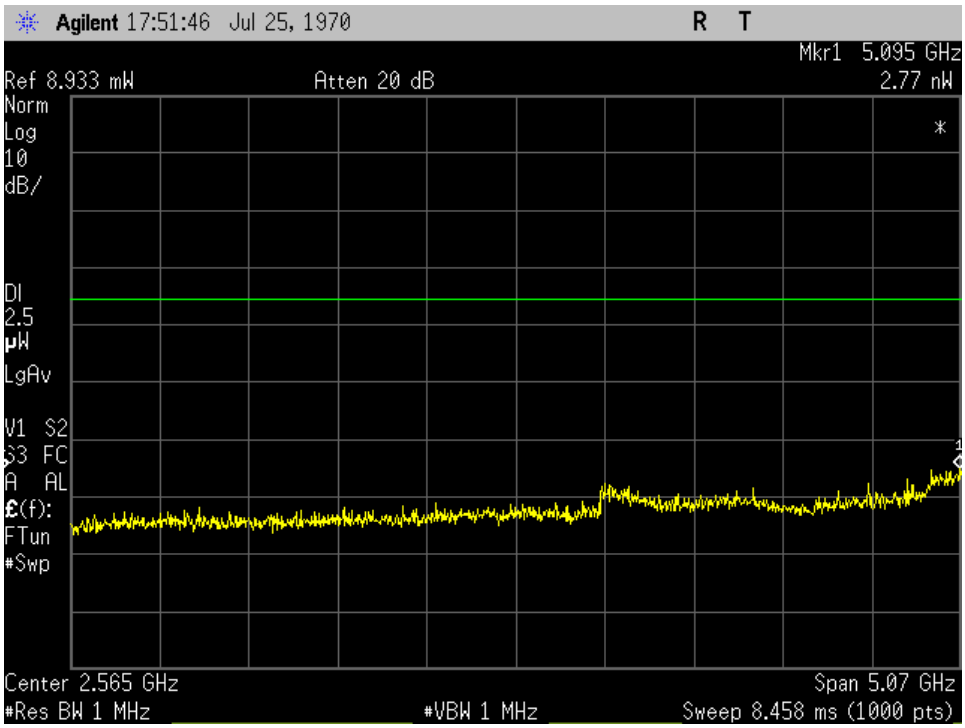


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W52_5210MHz_Low mid Ch_42_80MHz BW_ac-mode_Below Carrier_Port 1

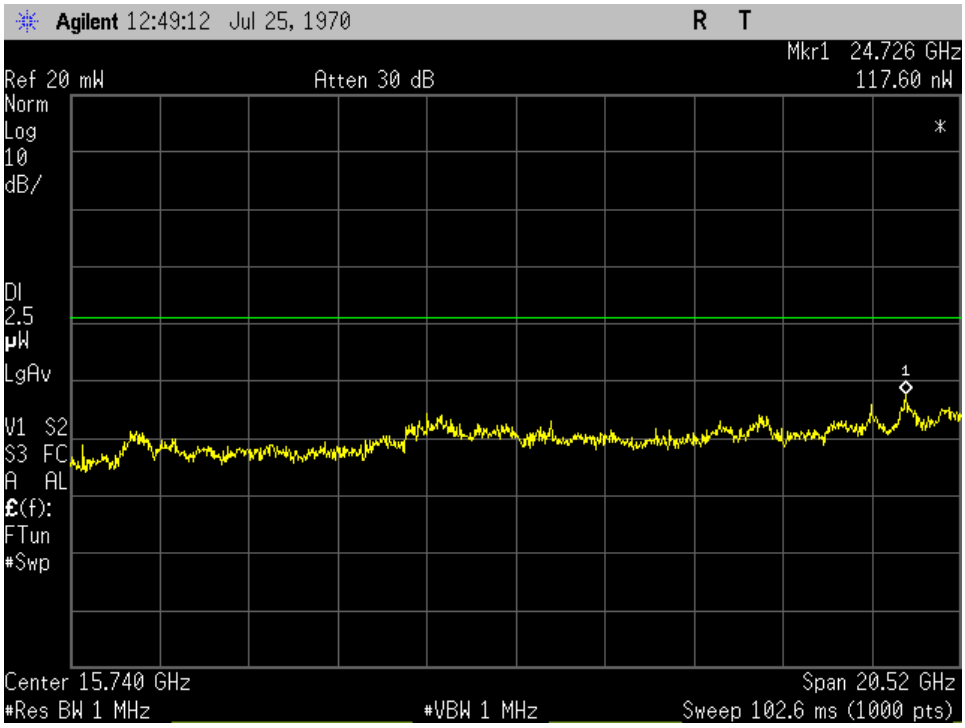


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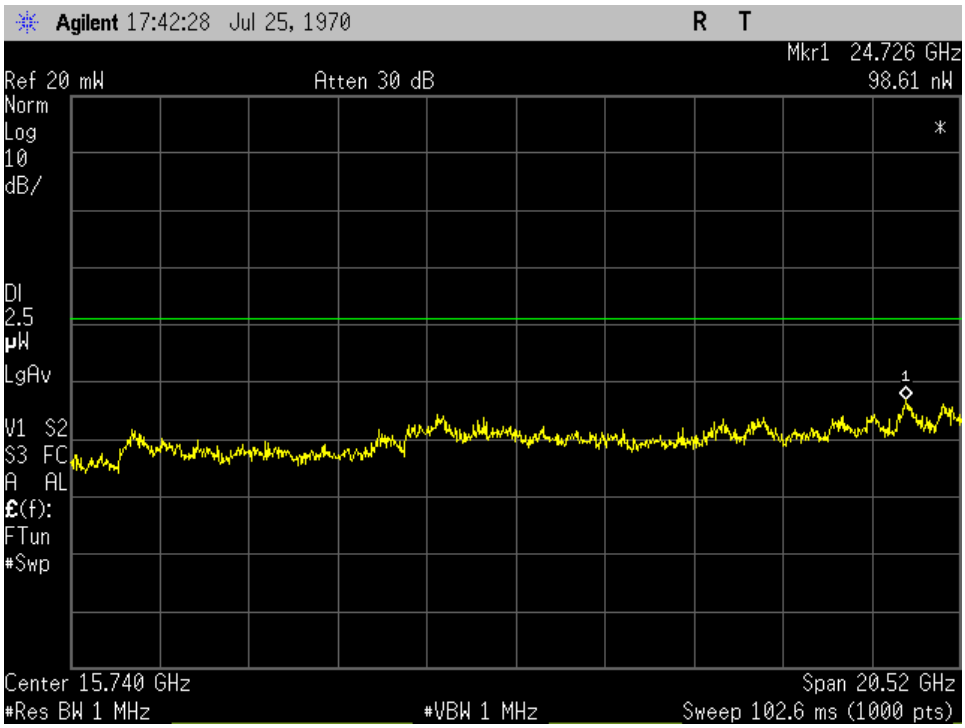


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W52_5230MHz_high_mid Ch_46_40MHz BW_n-mode_Above Carrier_Port 1

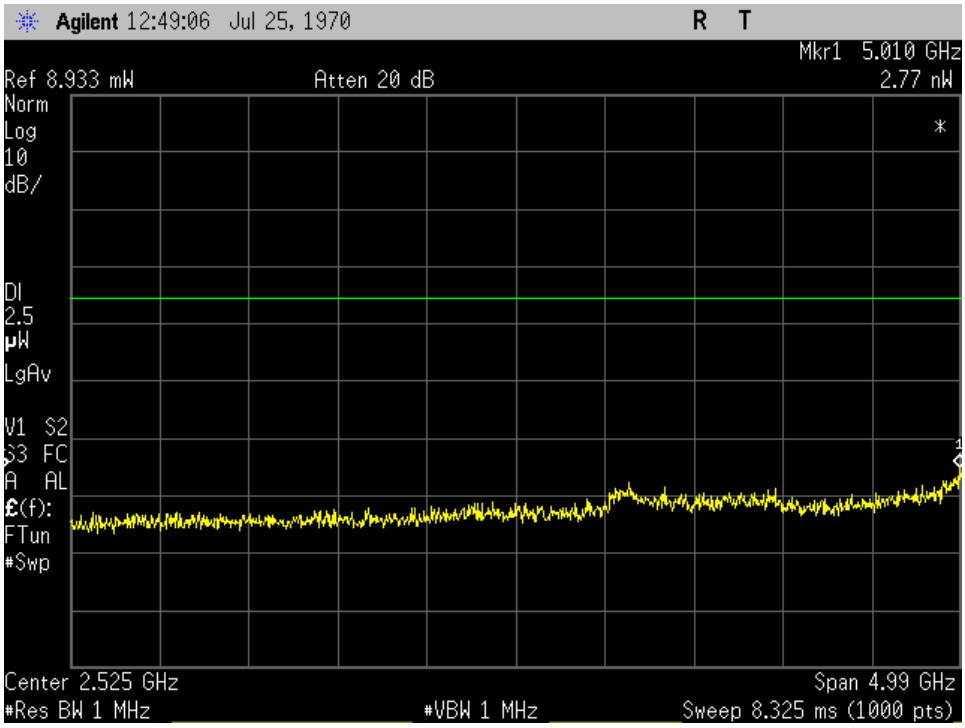


W52_5230MHz_high_mid Ch_46_40MHz BW_n-mode_Above Carrier_Port 2

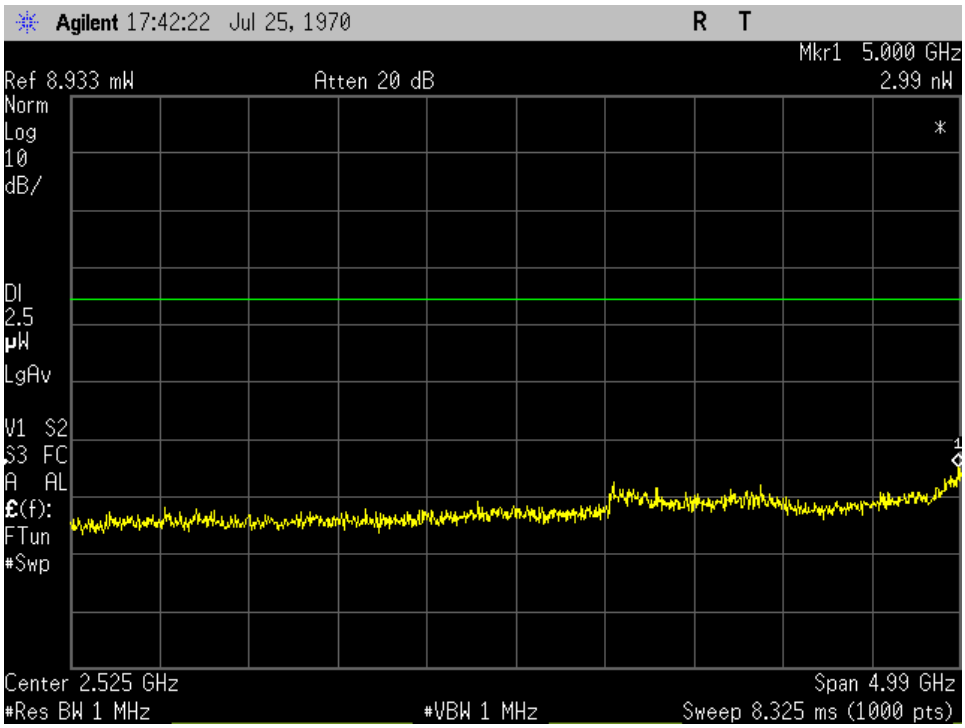


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W52_5230MHz_high_mid Ch_46_40MHz BW_n-mode_Below Carrier_Port 1

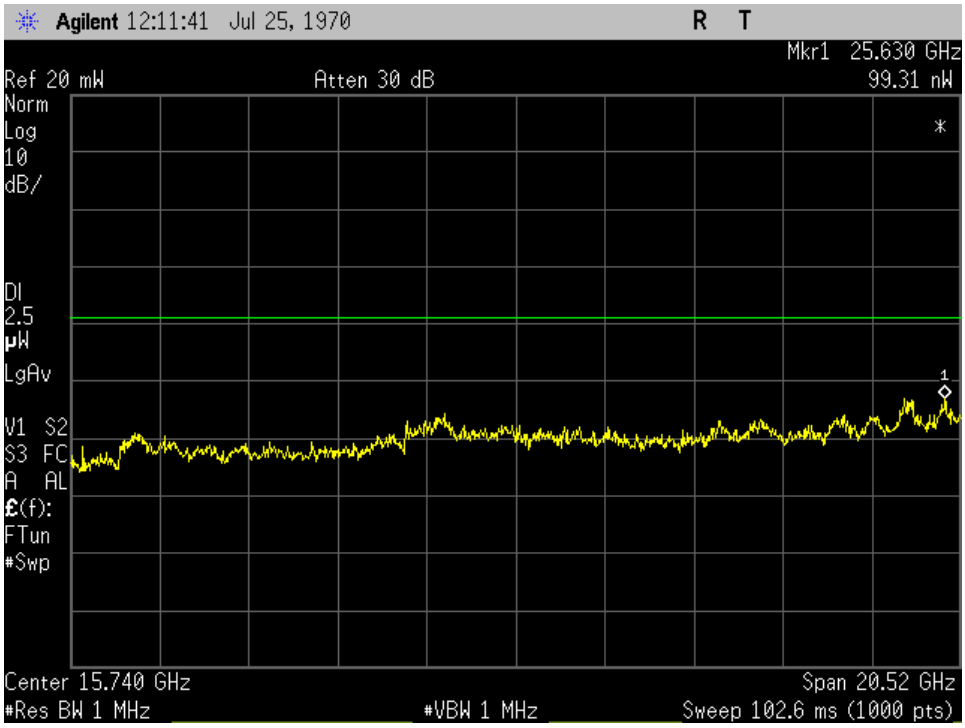


W52_5230MHz_high_mid Ch_46_40MHz BW_n-mode_Below Carrier_Port 2

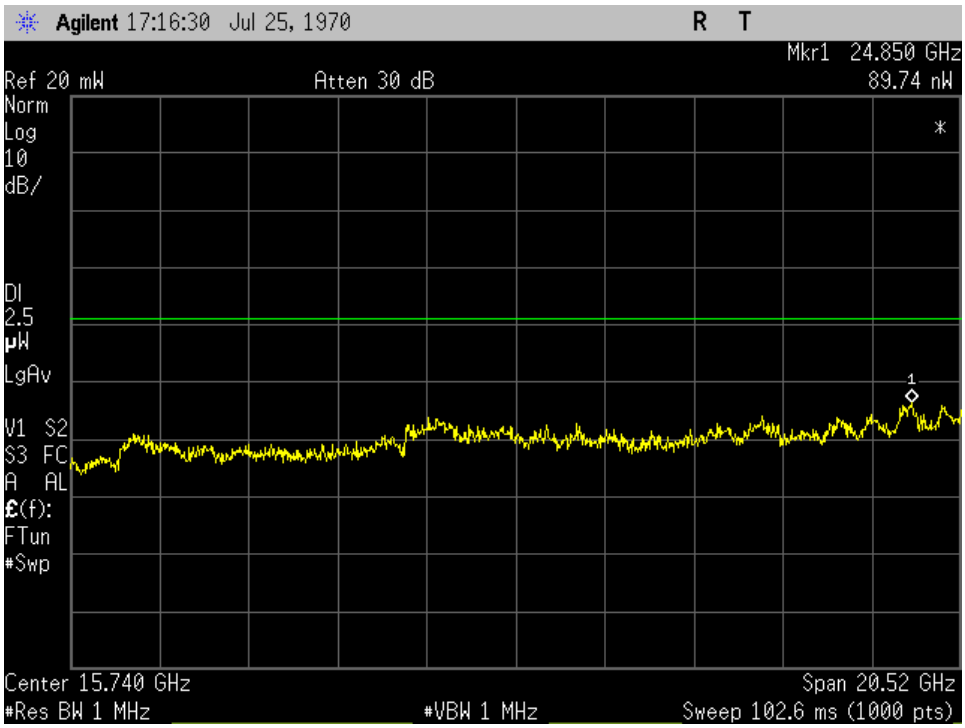


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W52_5240MHz_high_mid Ch_48_20MHz BW_a-mode_Above Carrier_Port 1

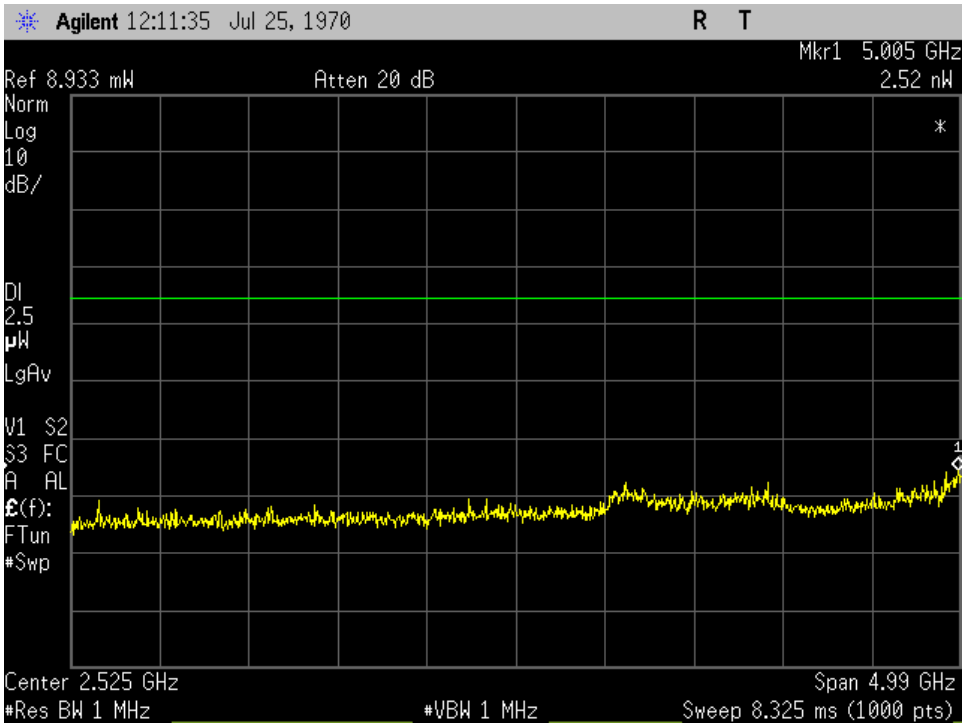


W52_5240MHz_high_mid Ch_48_20MHz BW_a-mode_Above Carrier_Port 2

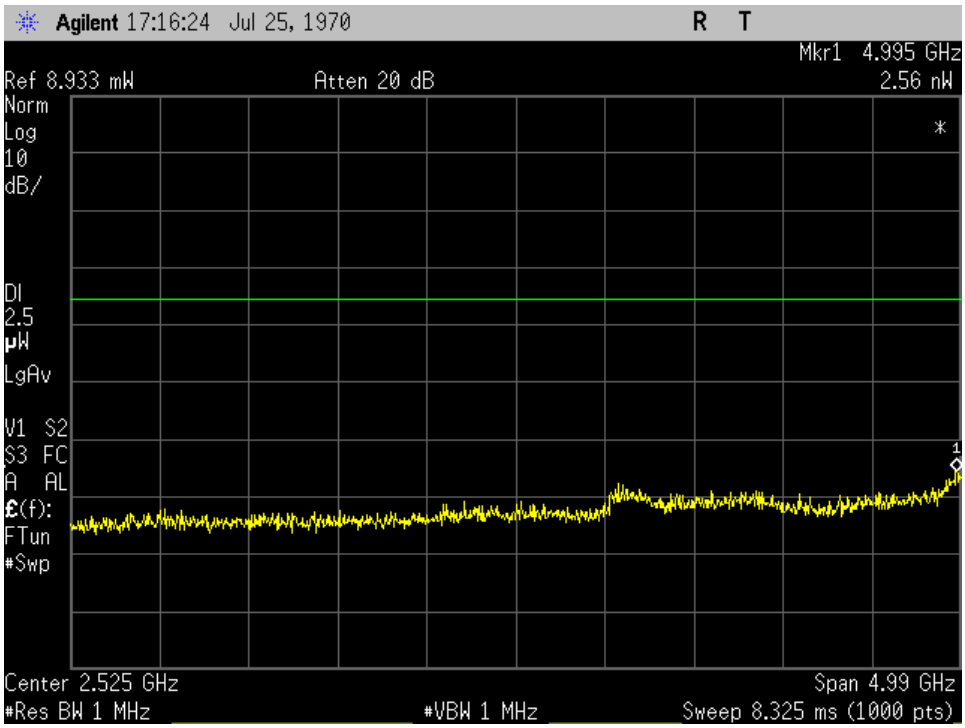


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W52_5240MHz_high_mid Ch_48_20MHz BW_a-mode_Below Carrier_Port 1

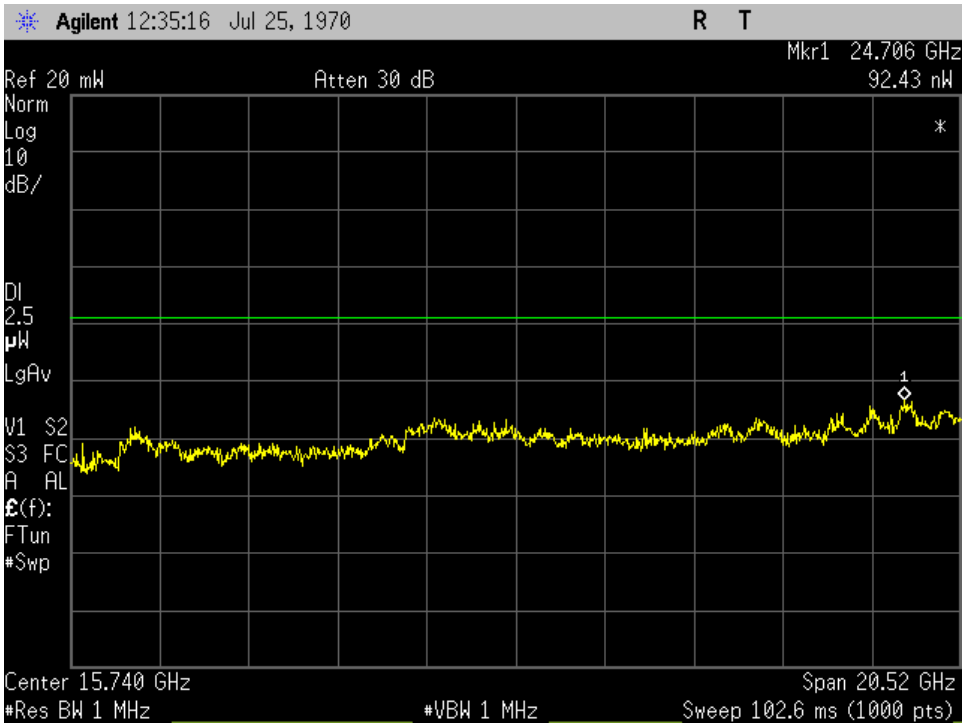


W52_5240MHz_high_mid Ch_48_20MHz BW_a-mode_Below Carrier_Port 2

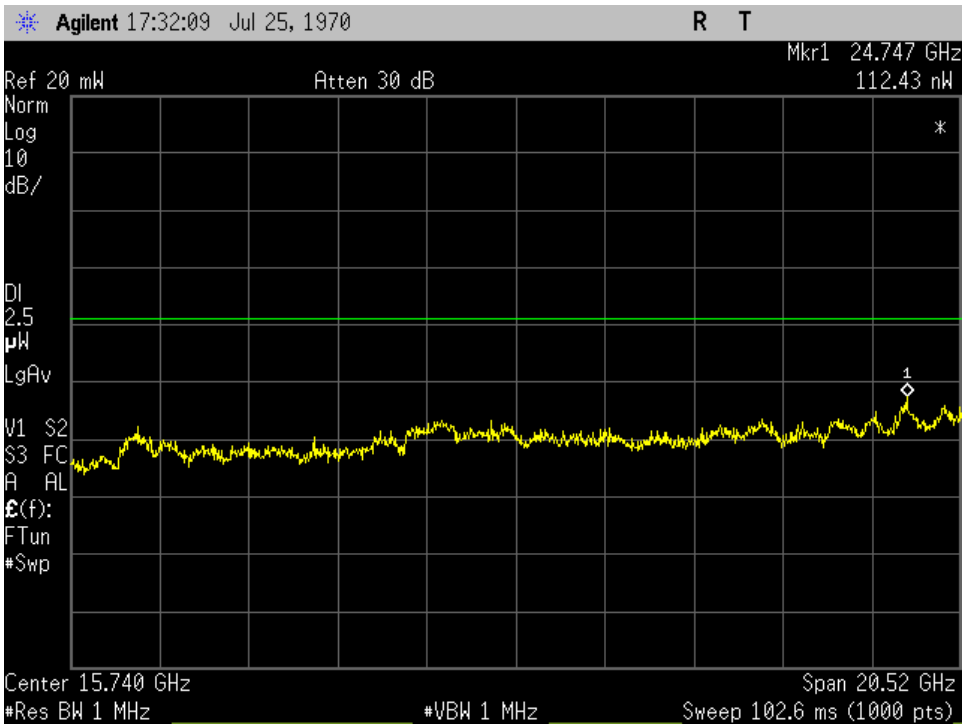


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W52_5240MHz_high_mid Ch_48_20MHz BW_n-mode_Above Carrier_Port 1

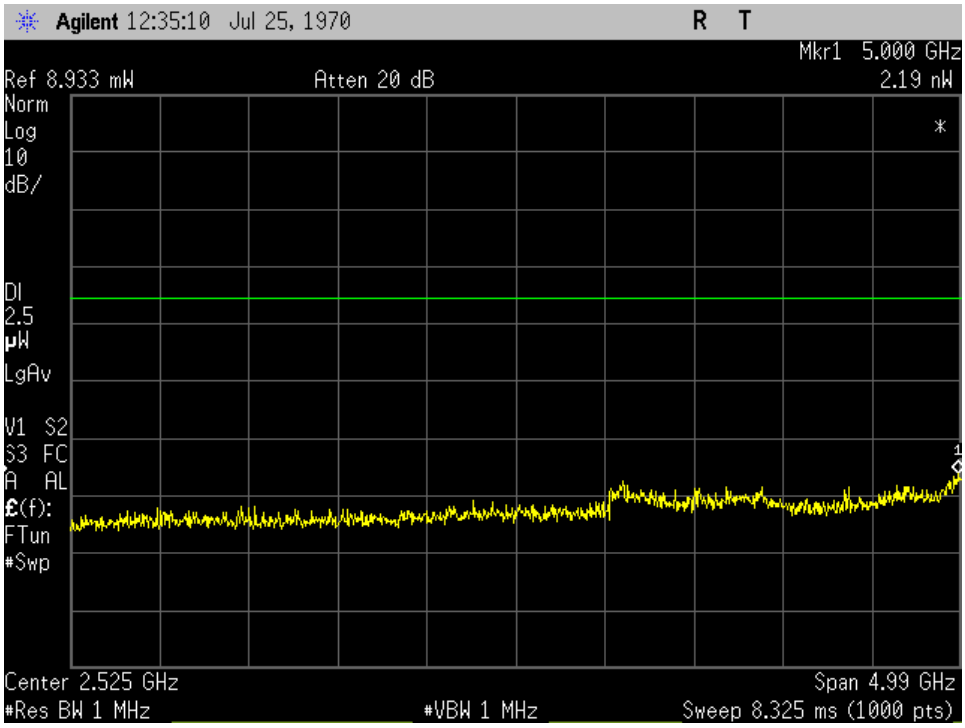


W52_5240MHz_high_mid Ch_48_20MHz BW_n-mode_Above Carrier_Port 2

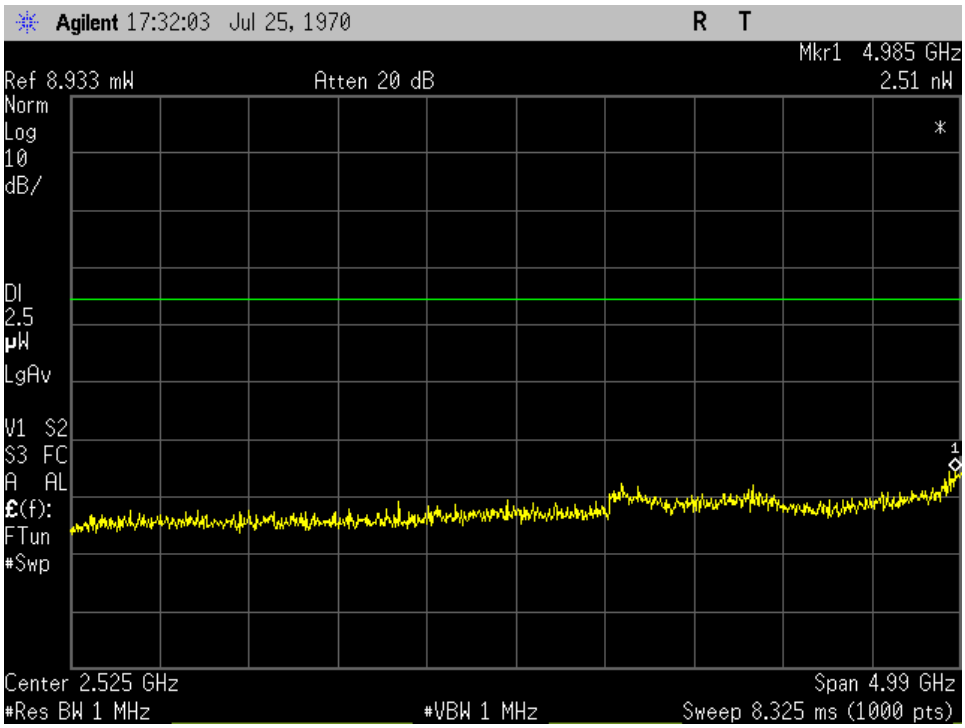


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W52_5240MHz_high_mid Ch_48_20MHz BW_n-mode_Below Carrier_Port 1

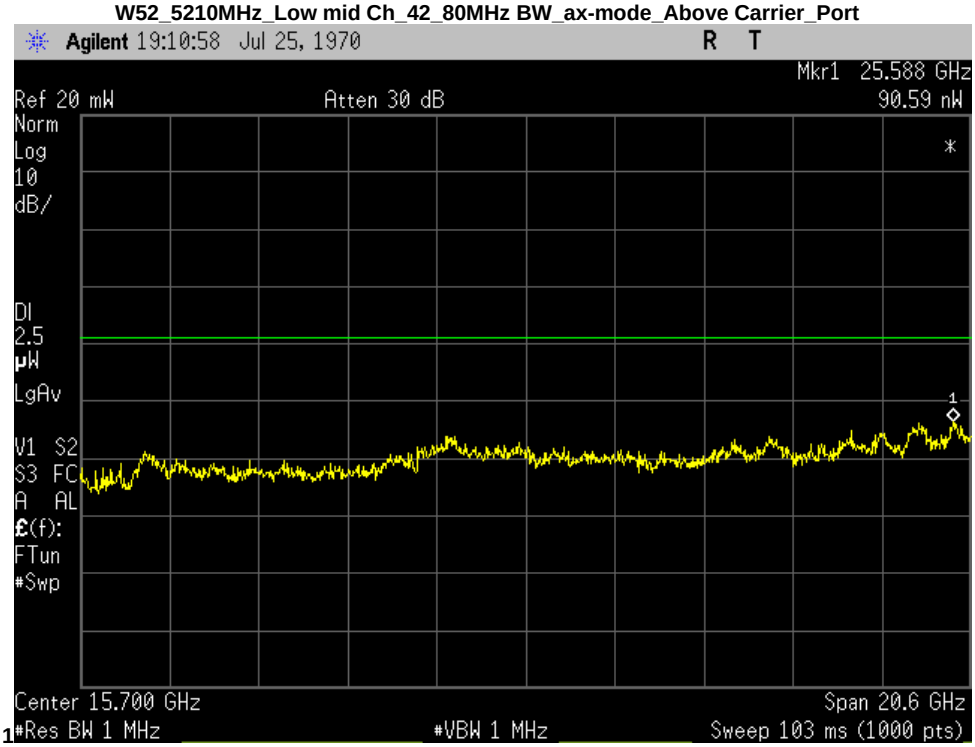


W52_5240MHz_high_mid Ch_48_20MHz BW_n-mode_Below Carrier_Port 2

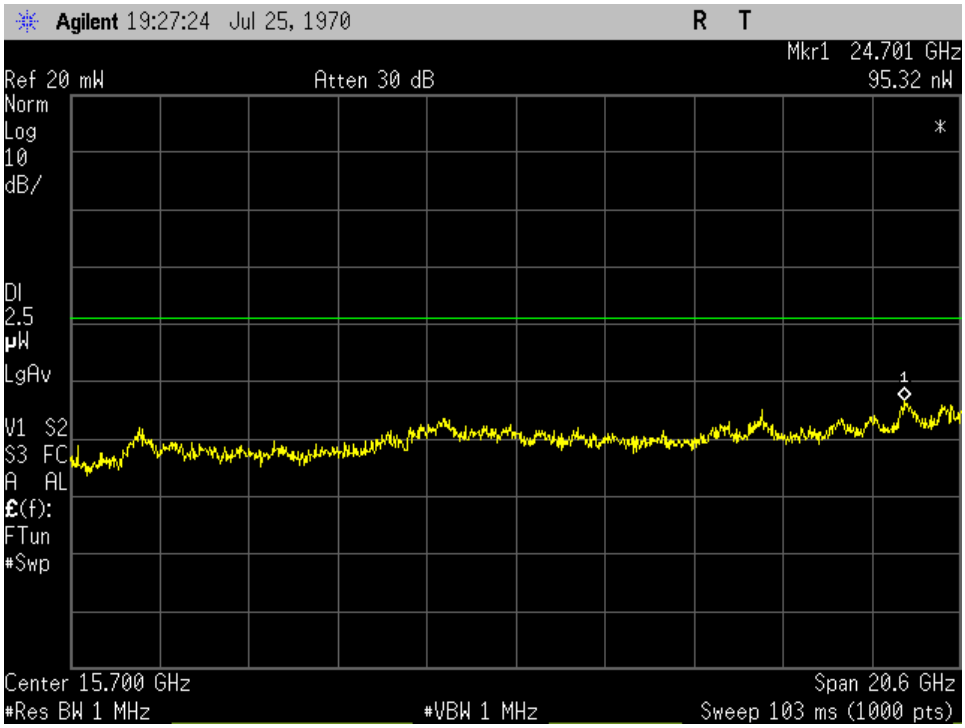


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W52_5210MHz_Low mid Ch_42_80MHz BW_ax-mode_Above Carrier_Port

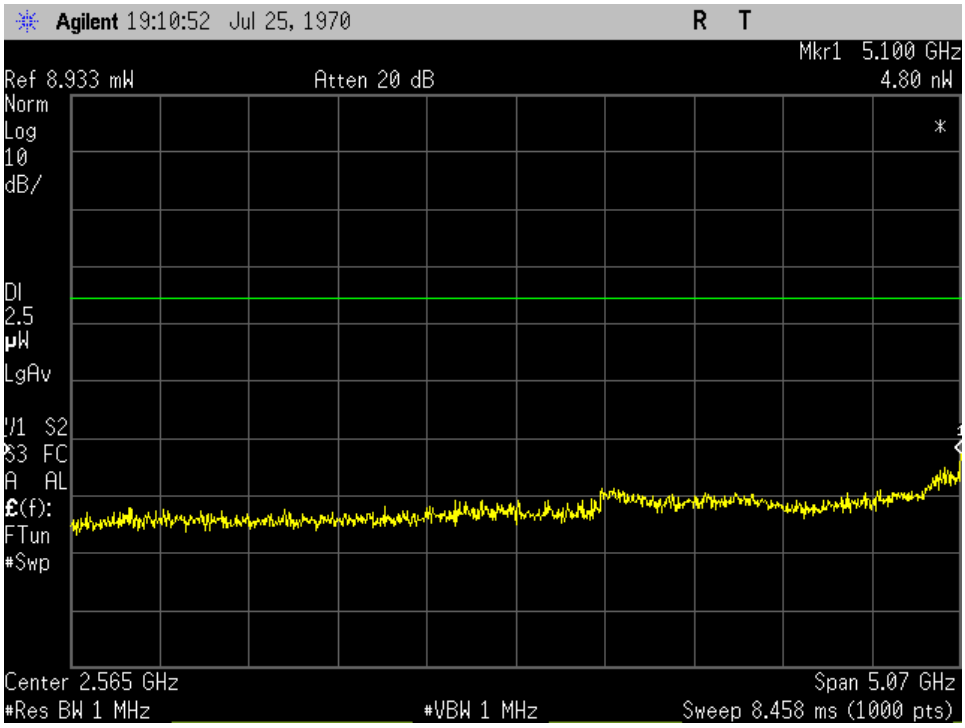


W52_5210MHz_Low mid Ch_42_80MHz BW_ax-mode_Above Carrier_Port 2

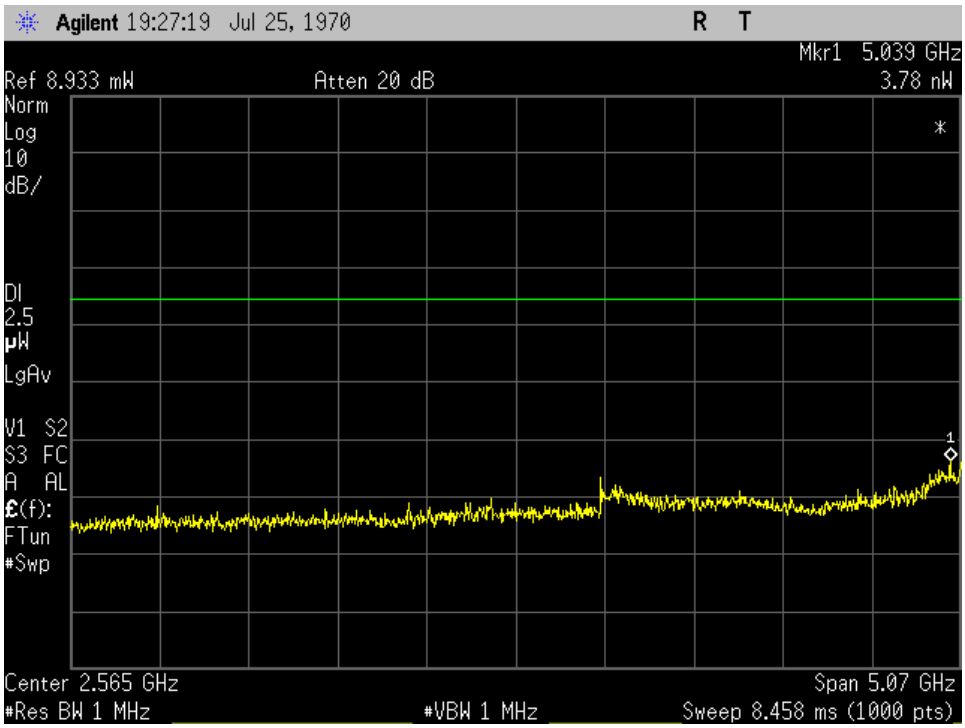


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W52_5210MHz_Low mid Ch_42_80MHz BW_ax-mode_Below Carrier_Port 1



W52_5210MHz_Low mid Ch_42_80MHz BW_ax-mode_Below Carrier_Port 2

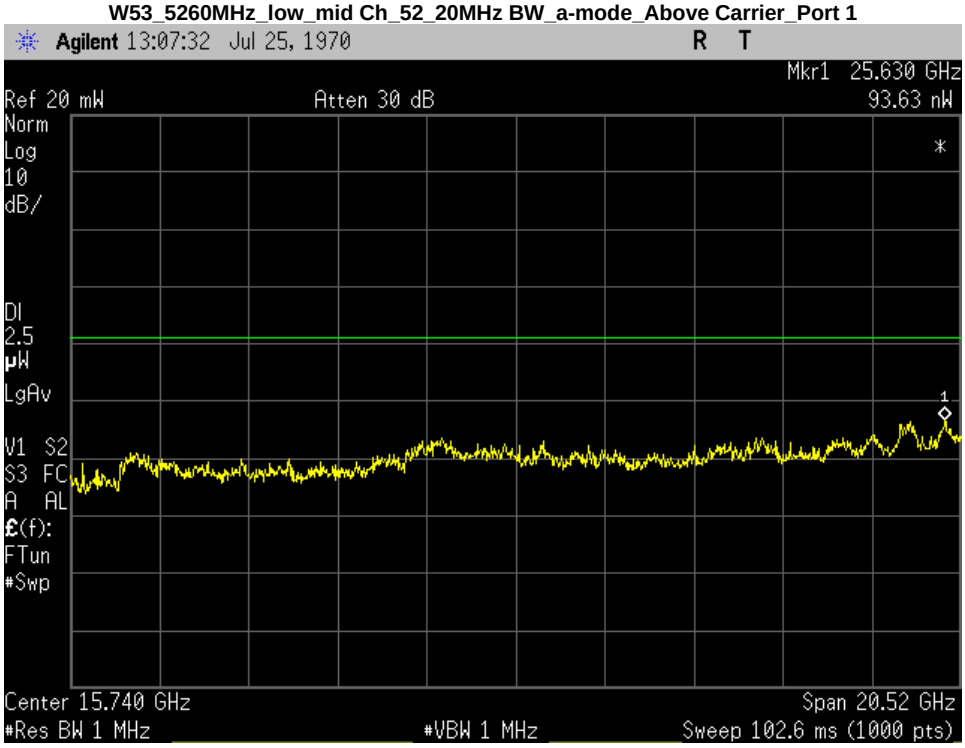


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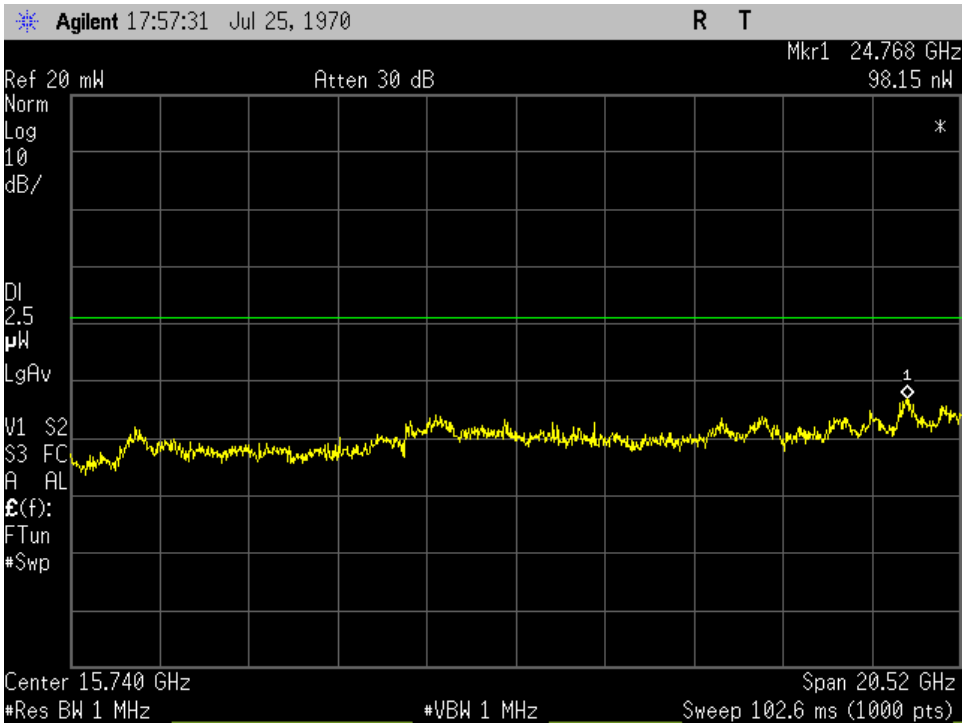
Spurious Emission Plots (W53 Band)

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W53_5260MHz_low_mid Ch_52_20MHz BW_a-mode_Above Carrier_Port 1

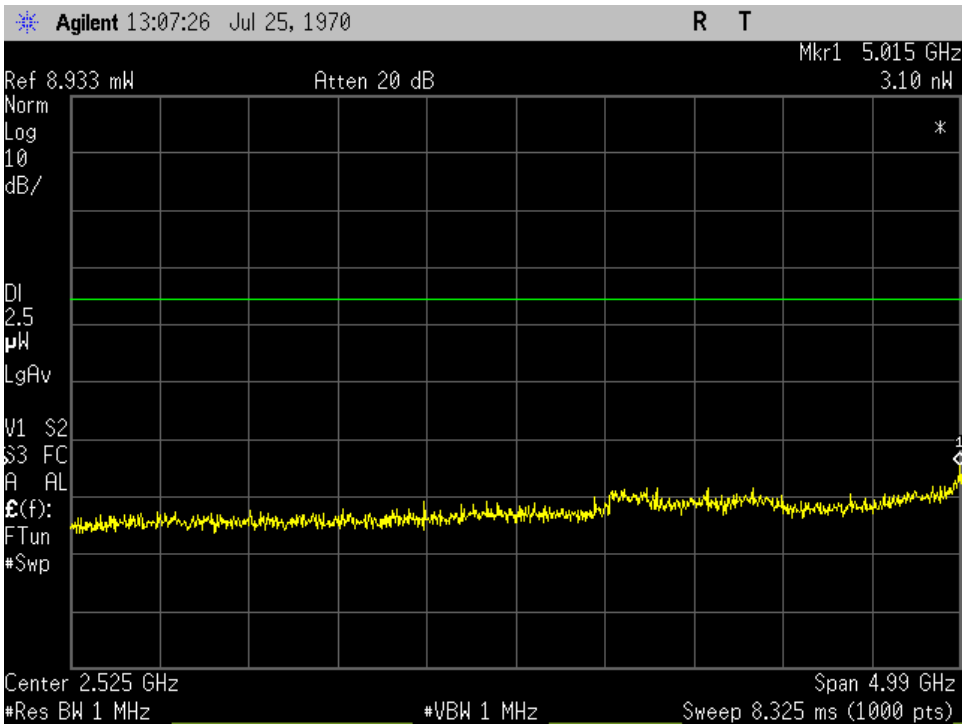


W53_5260MHz_low_mid Ch_52_20MHz BW_a-mode_Above Carrier_Port 2

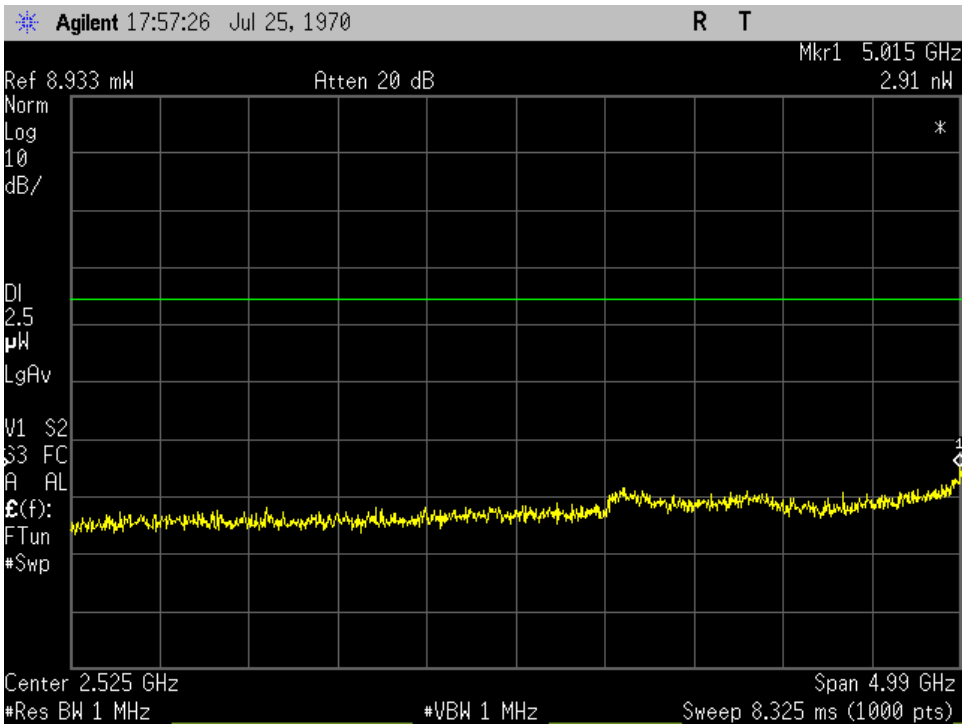


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W53_5260MHz_low_mid Ch_52_20MHz BW_a-mode_Below Carrier_Port 1

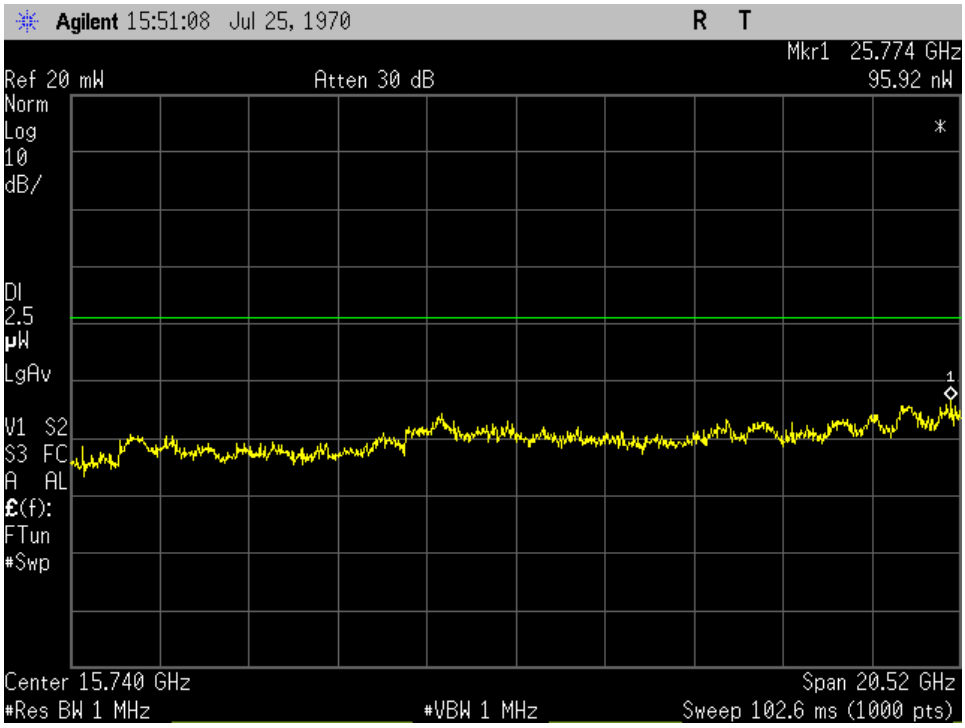


W53_5260MHz_low_mid Ch_52_20MHz BW_a-mode_Below Carrier_Port 2

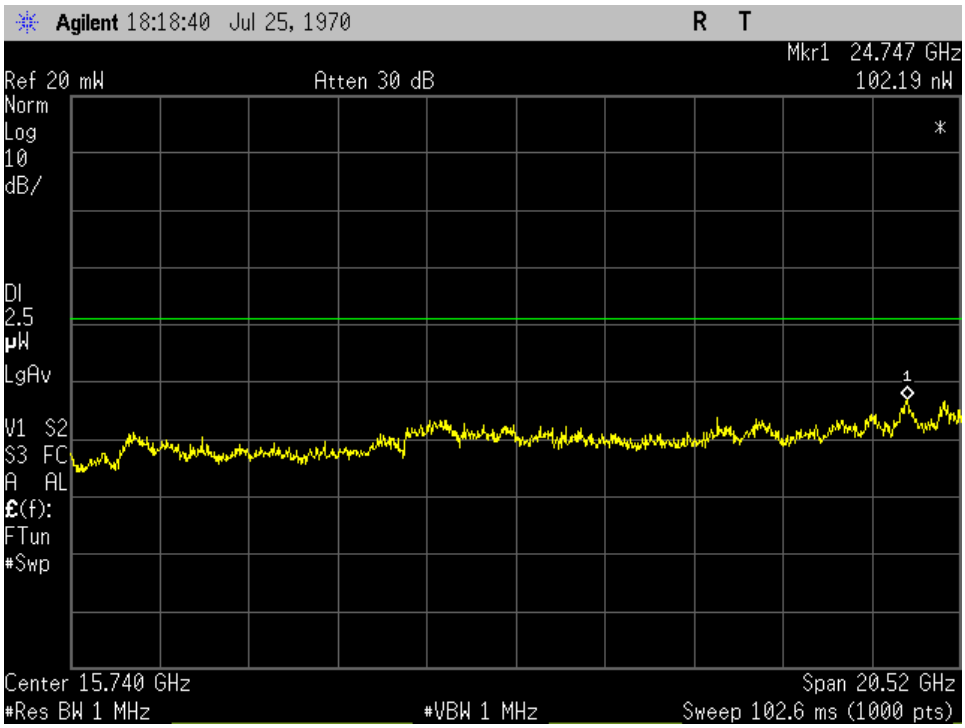


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W53_5260MHz_low_mid Ch_52_20MHz BW_n-mode_Above Carrier_Port 1

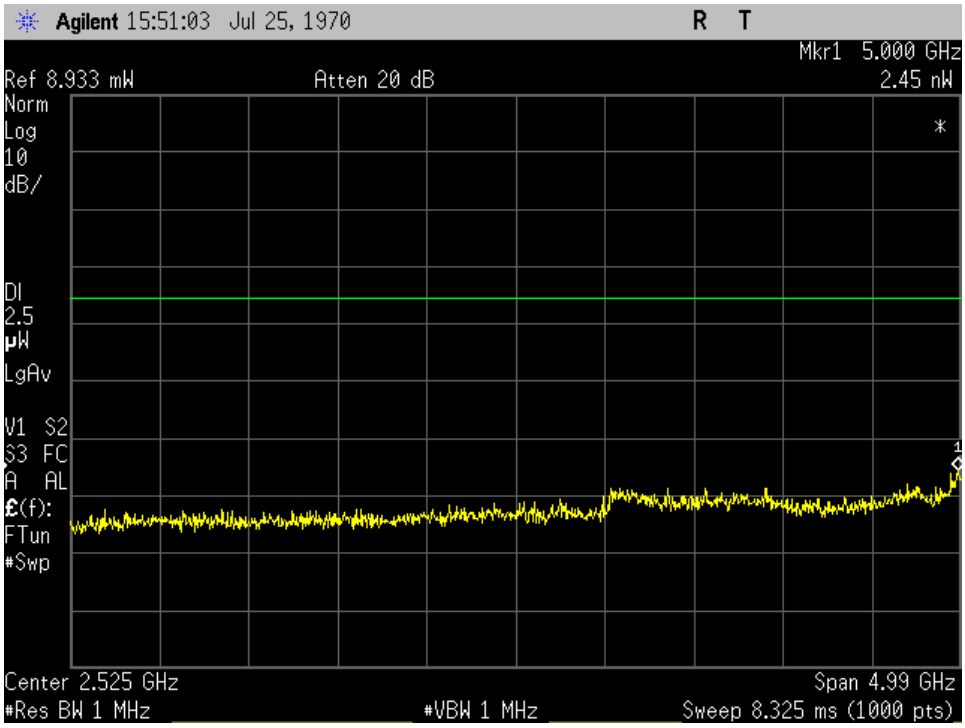


W53_5260MHz_low_mid Ch_52_20MHz BW_n-mode_Above Carrier_Port 2

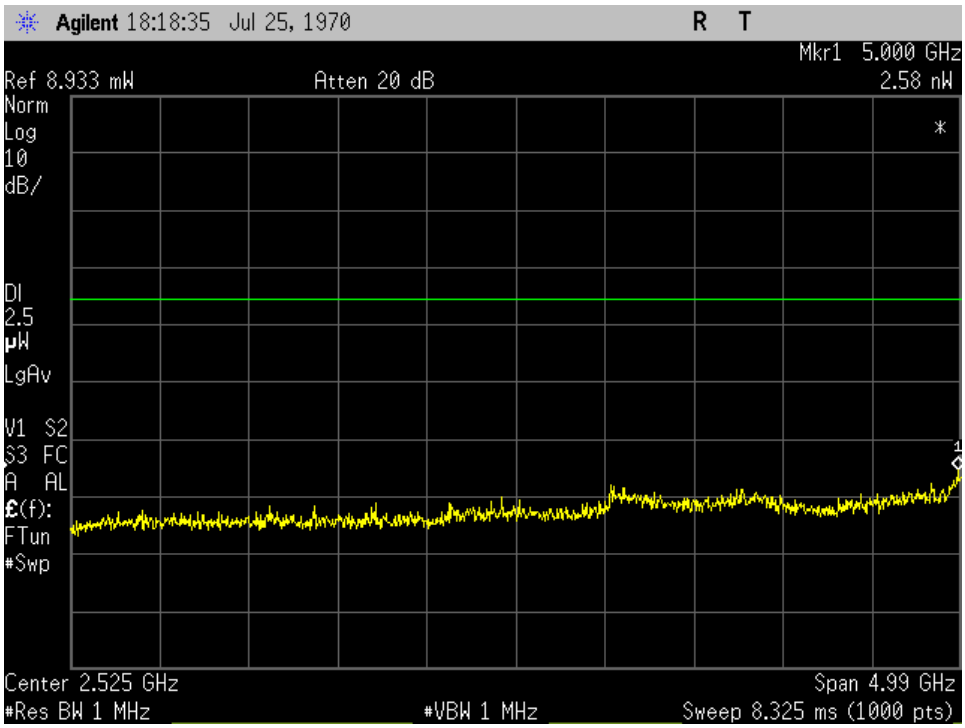


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W53_5260MHz_low_mid Ch_52_20MHz BW_n-mode_Below Carrier_Port 1

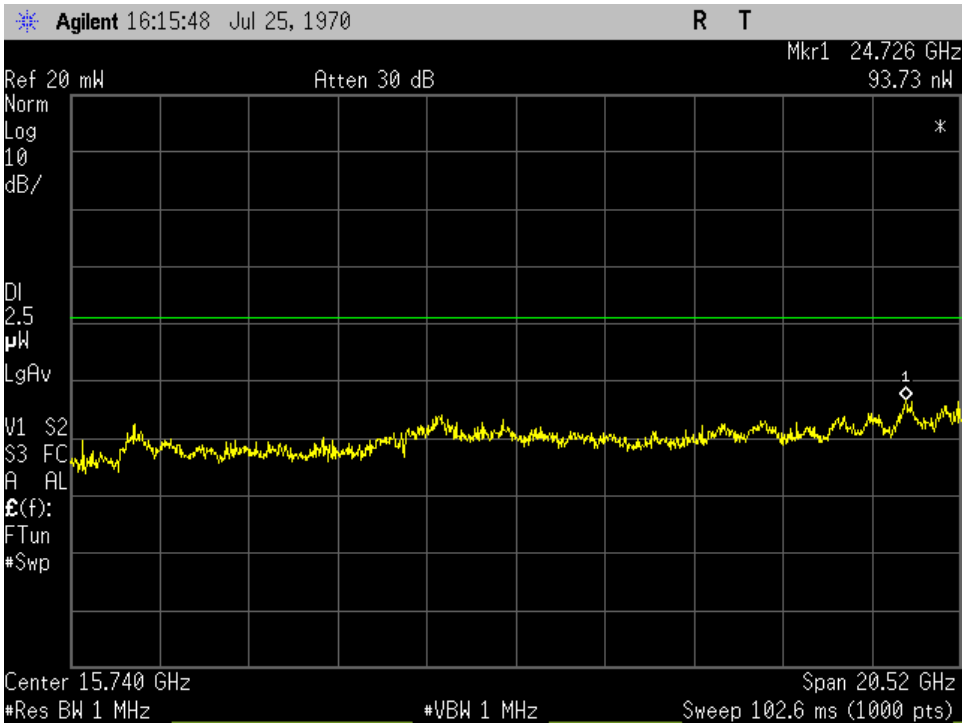


W53_5260MHz_low_mid Ch_52_20MHz BW_n-mode_Below Carrier_Port 2

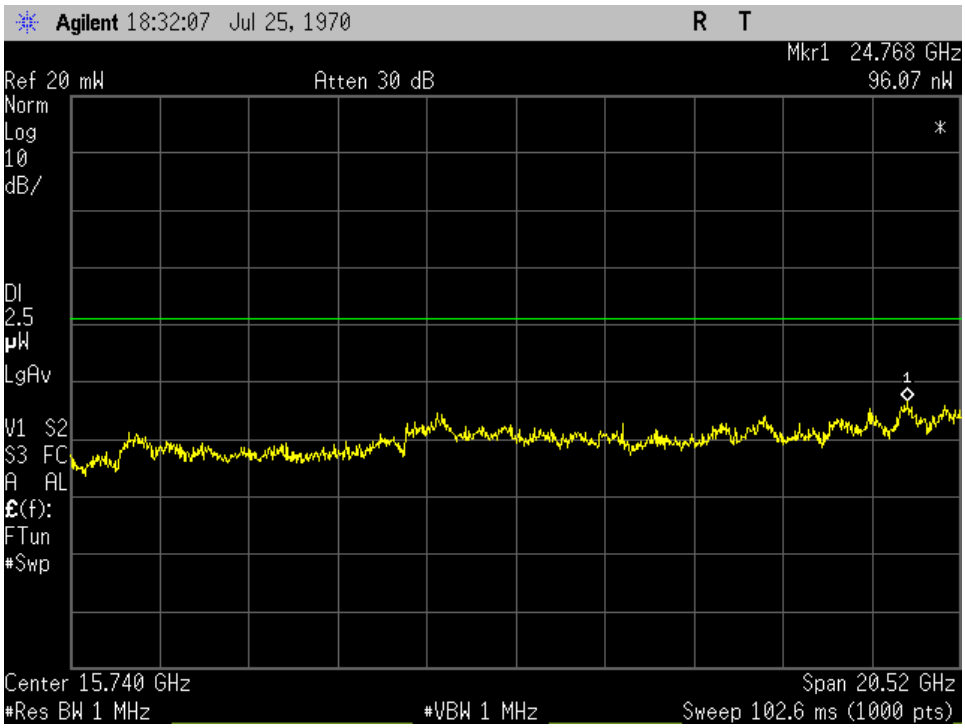


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W53_5270MHz_low_mid Ch_54_40MHz BW_n-mode_Above Carrier_Port 1

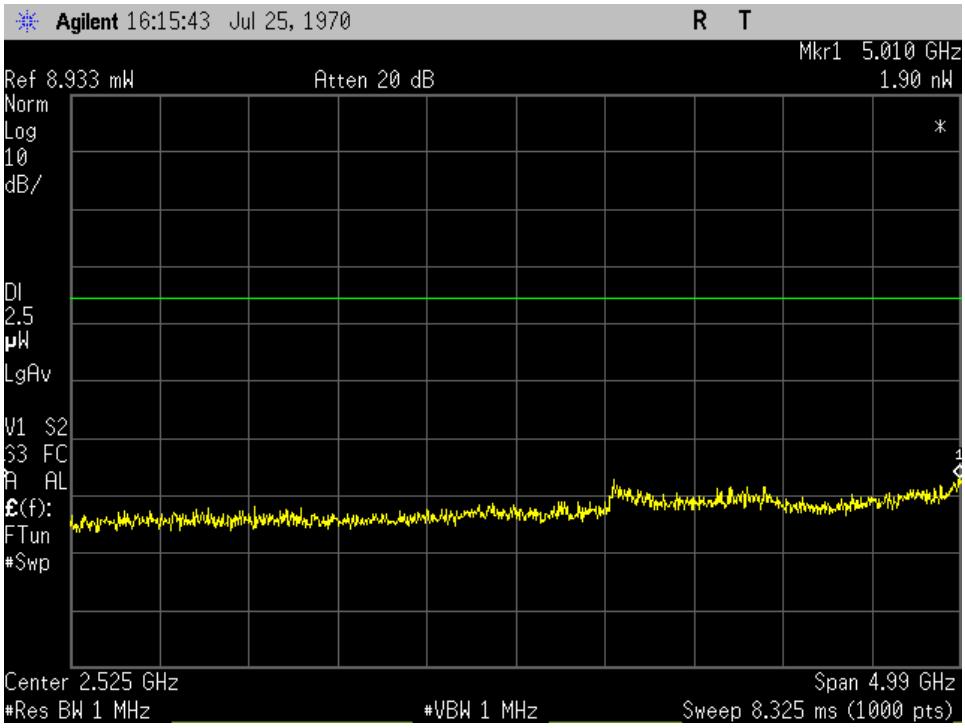


W53_5270MHz_low_mid Ch_54_40MHz BW_n-mode_Above Carrier_Port 2

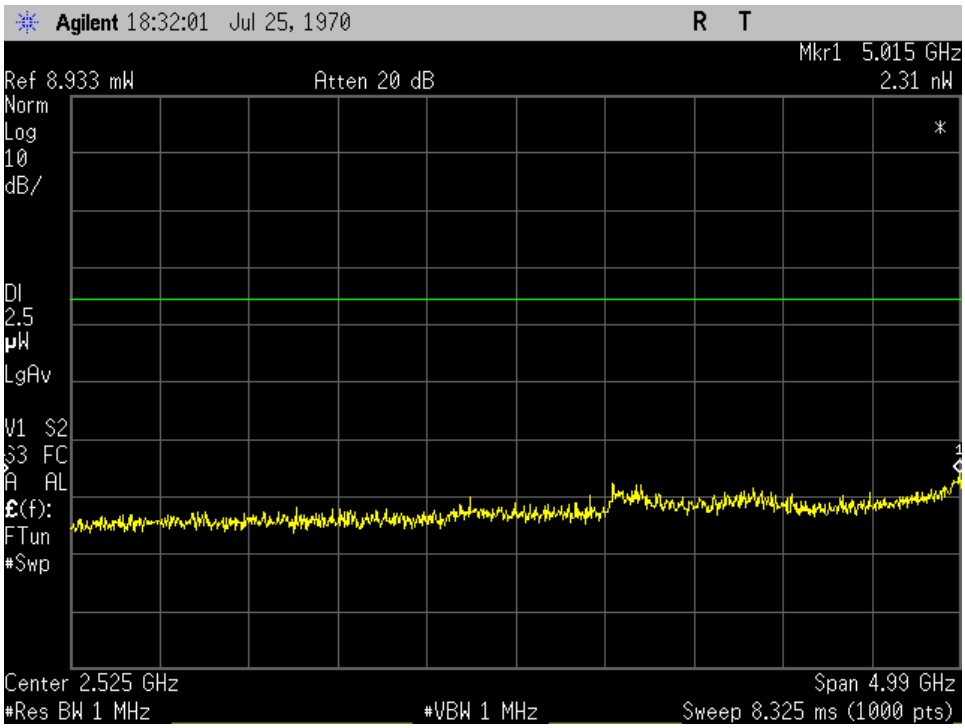


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W53_5270MHz_low_mid Ch_54_40MHz BW_n-mode_Below Carrier_Port 1

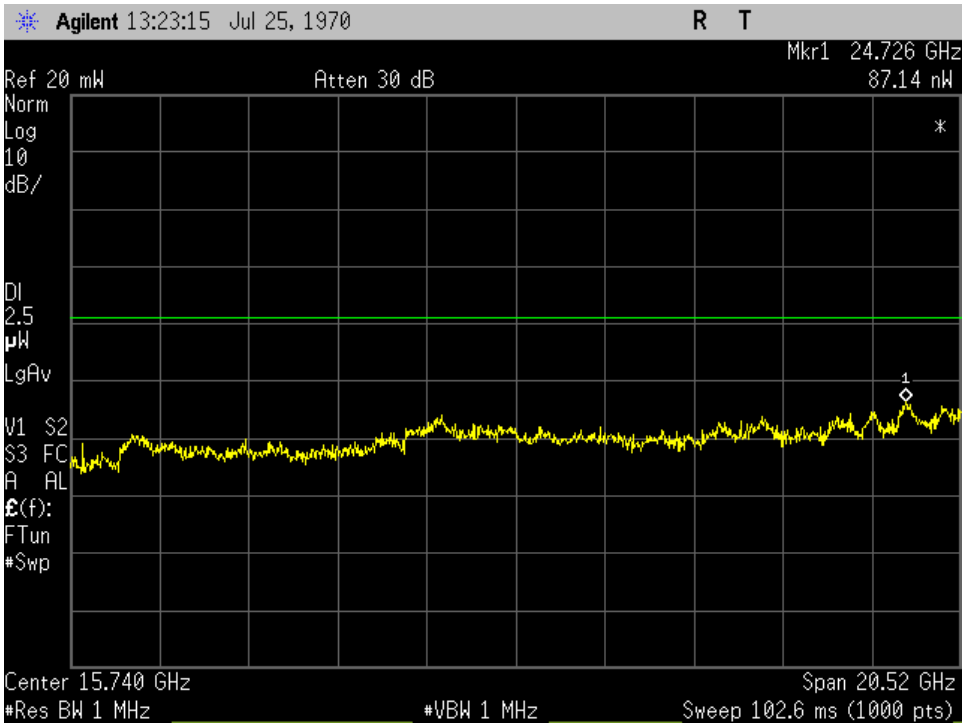


W53_5270MHz_low_mid Ch_54_40MHz BW_n-mode_Below Carrier_Port 2

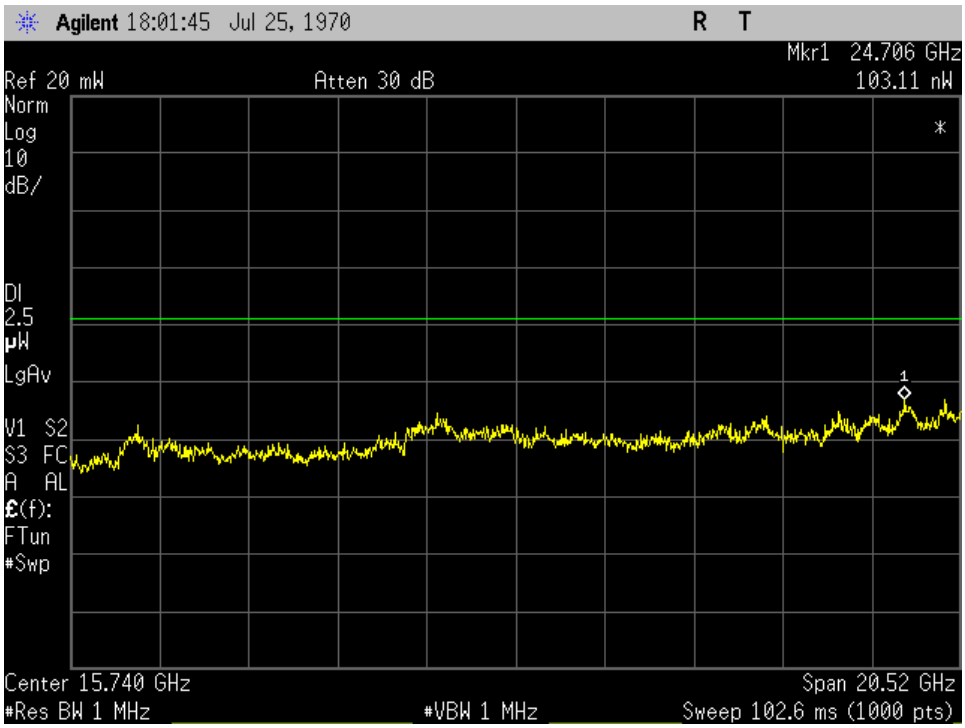


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W53_5280MHz_high_mid Ch_56_20MHz BW_a-mode_Above Carrier_Port 1

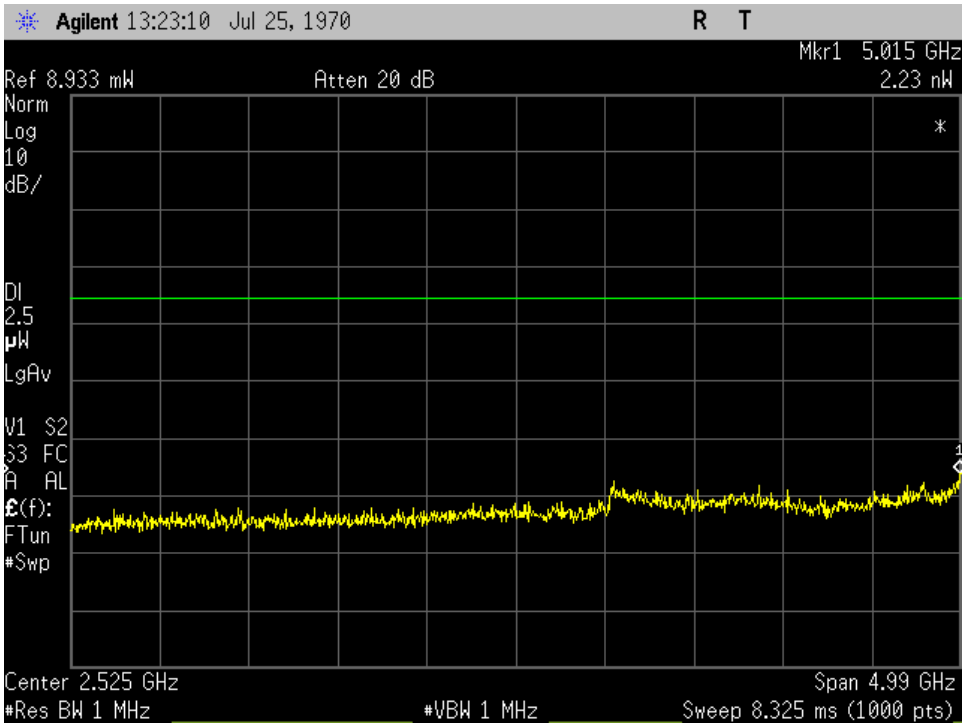


W53_5280MHz_high_mid Ch_56_20MHz BW_a-mode_Above Carrier_Port 2

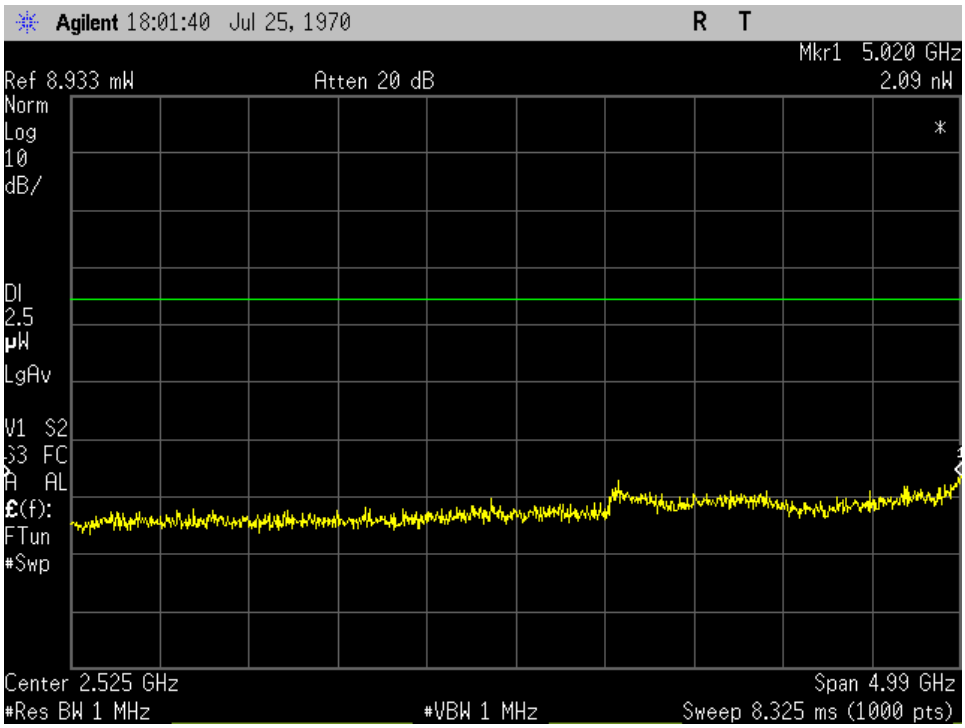


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W53_5280MHz_high_mid Ch_56_20MHz BW_a-mode_Below Carrier_Port 1

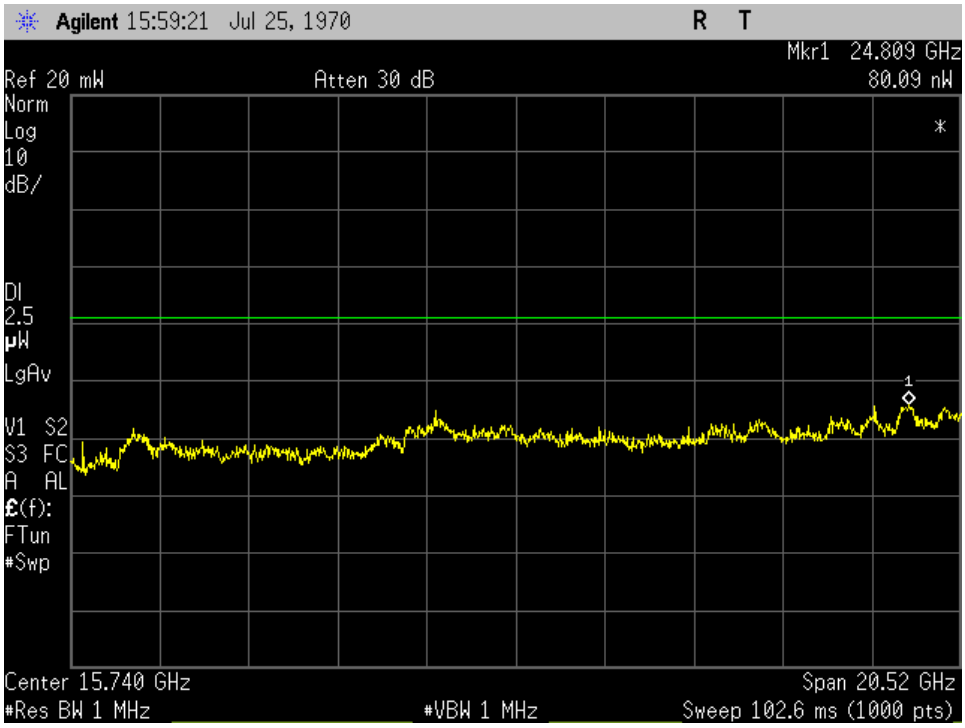


W53_5280MHz_high_mid Ch_56_20MHz BW_a-mode_Below Carrier_Port 2

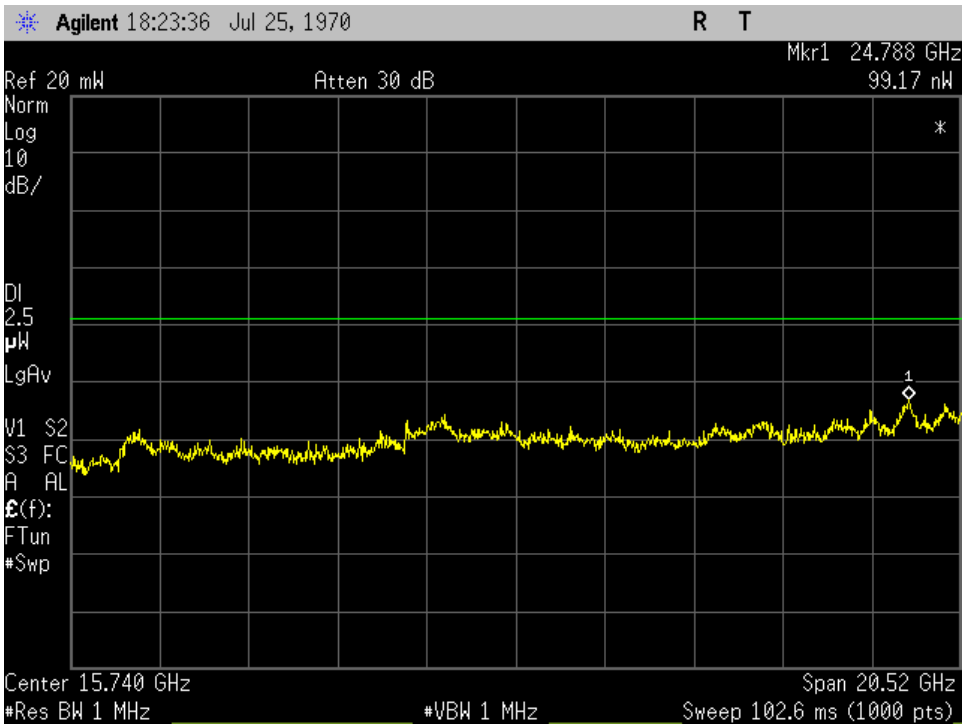


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W53_5280MHz_high_mid Ch_56_20MHz BW_n-mode_Above Carrier_Port 1

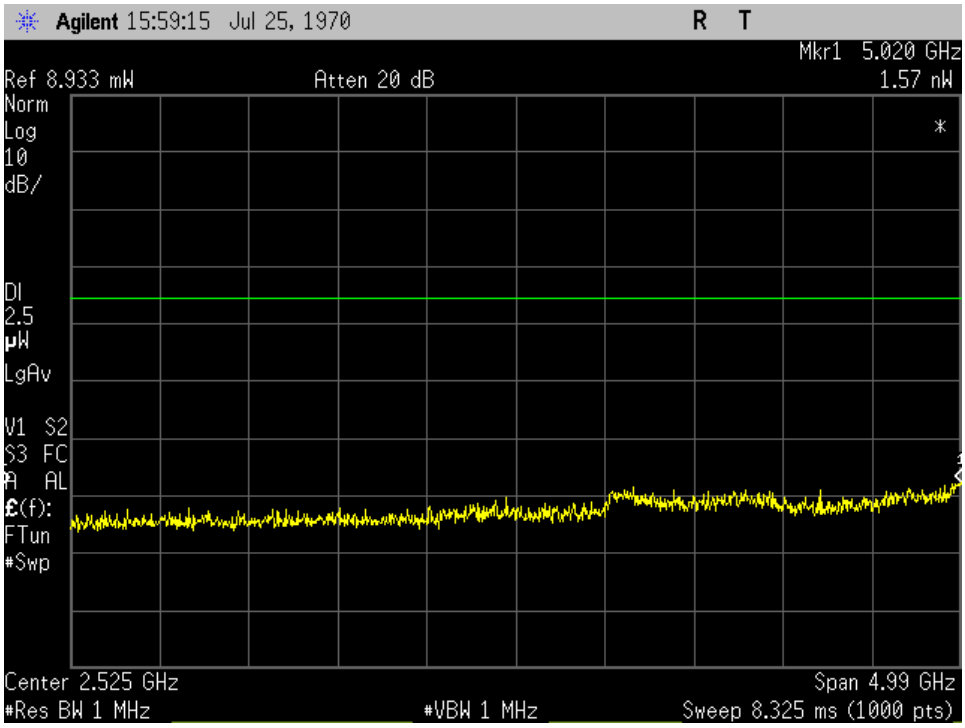


W53_5280MHz_high_mid Ch_56_20MHz BW_n-mode_Above Carrier_Port 2

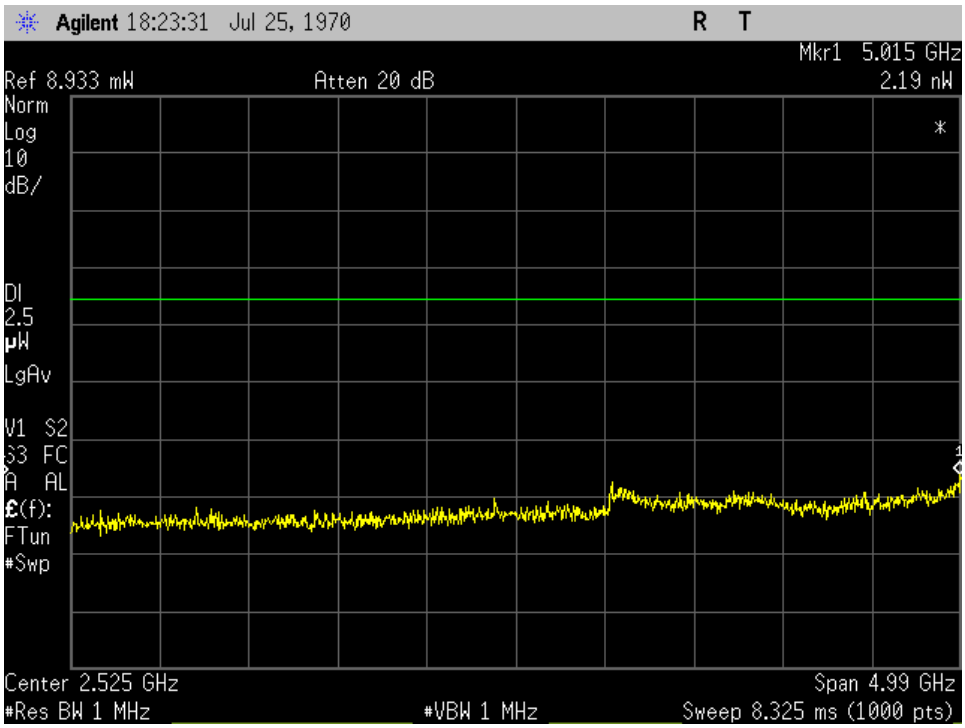


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W53_5280MHz_high_mid Ch_56_20MHz BW_n-mode_Below Carrier_Port 1

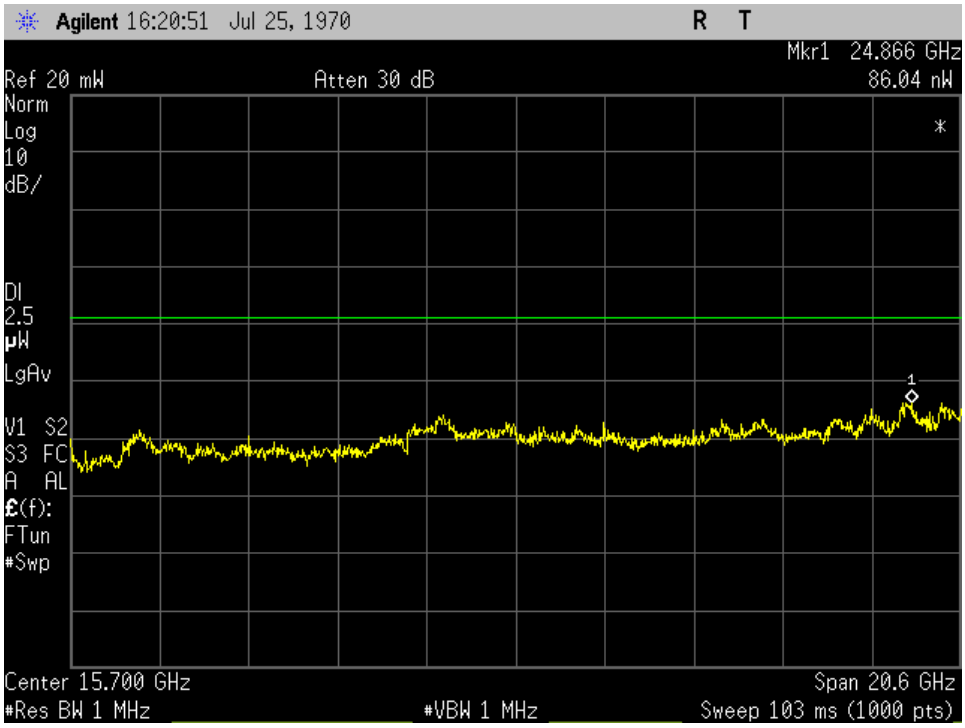


W53_5280MHz_high_mid Ch_56_20MHz BW_n-mode_Below Carrier_Port 2

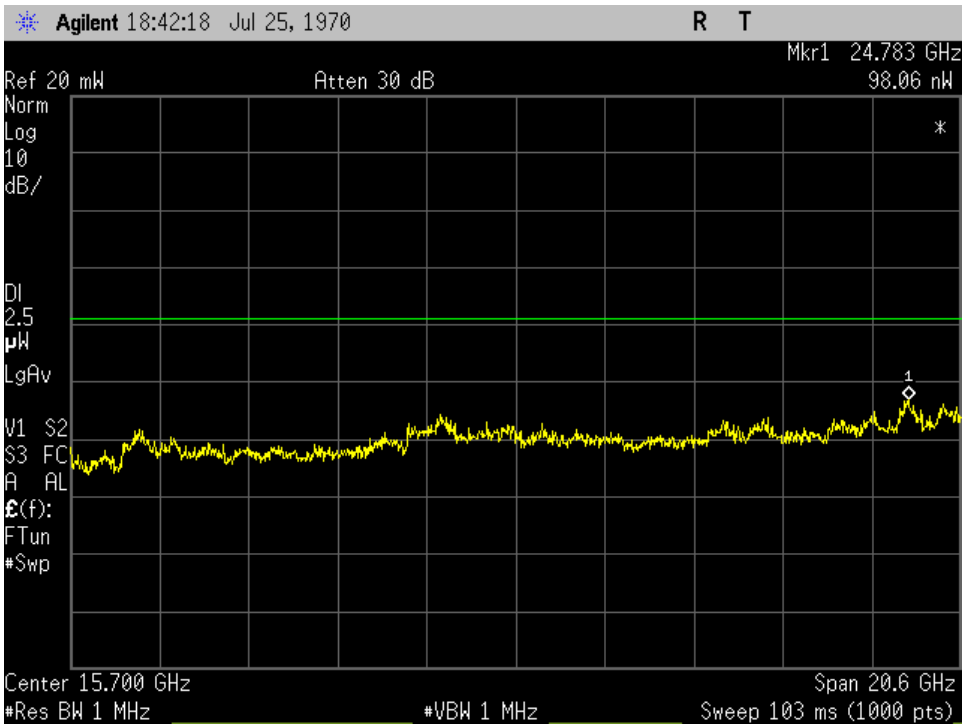


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W53_5290MHz_High Ch_58_80MHz BW_ac-mode_Above Carrier_Port 1

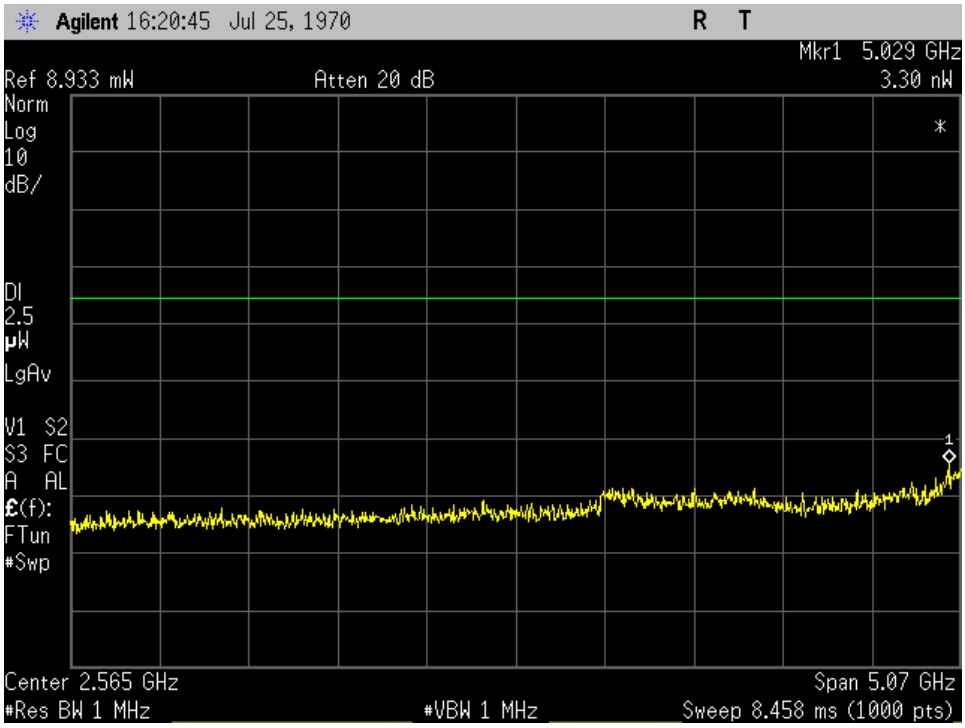


W53_5290MHz_High Ch_58_80MHz BW_ac-mode_Above Carrier_Port 2

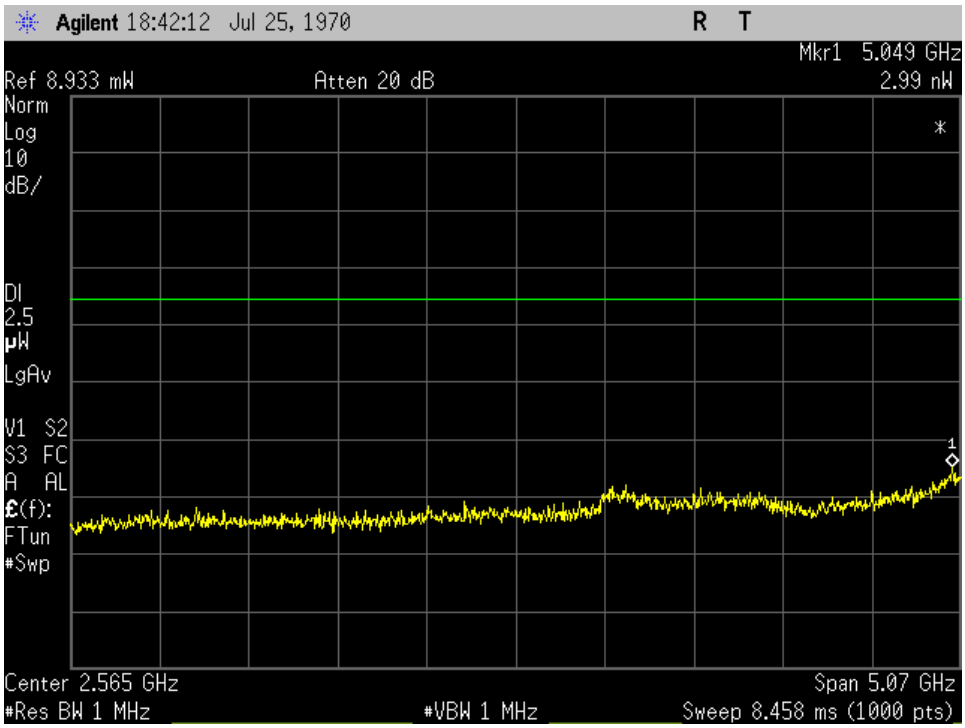


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W53_5290MHz_High Ch_58_80MHz BW_ac-mode_Below Carrier_Port 1

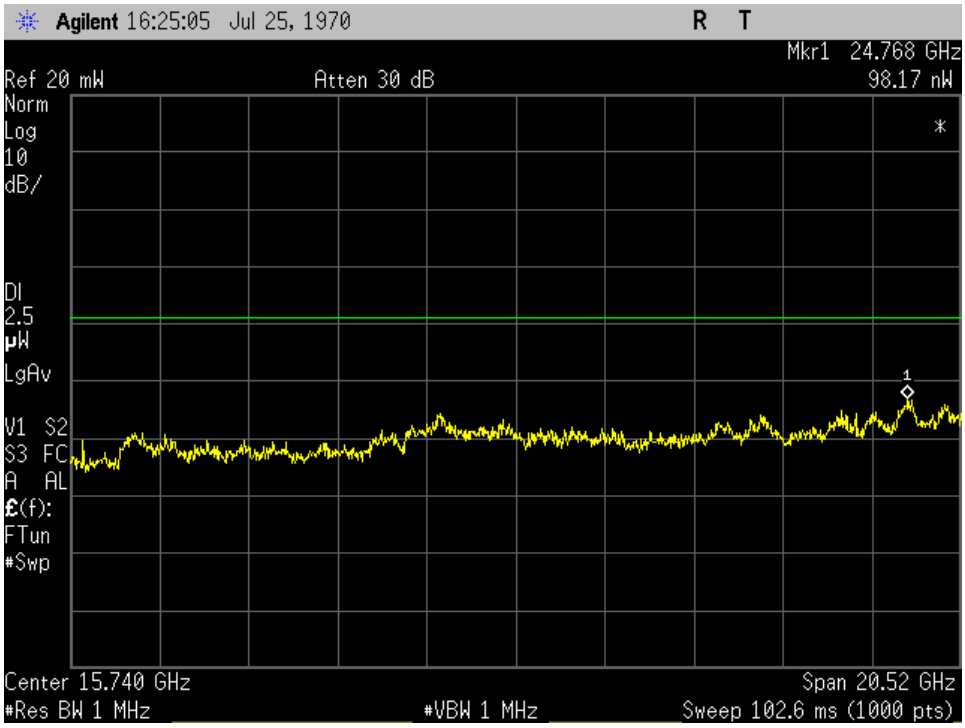


W53_5290MHz_High Ch_58_80MHz BW_ac-mode_Below Carrier_Port 2

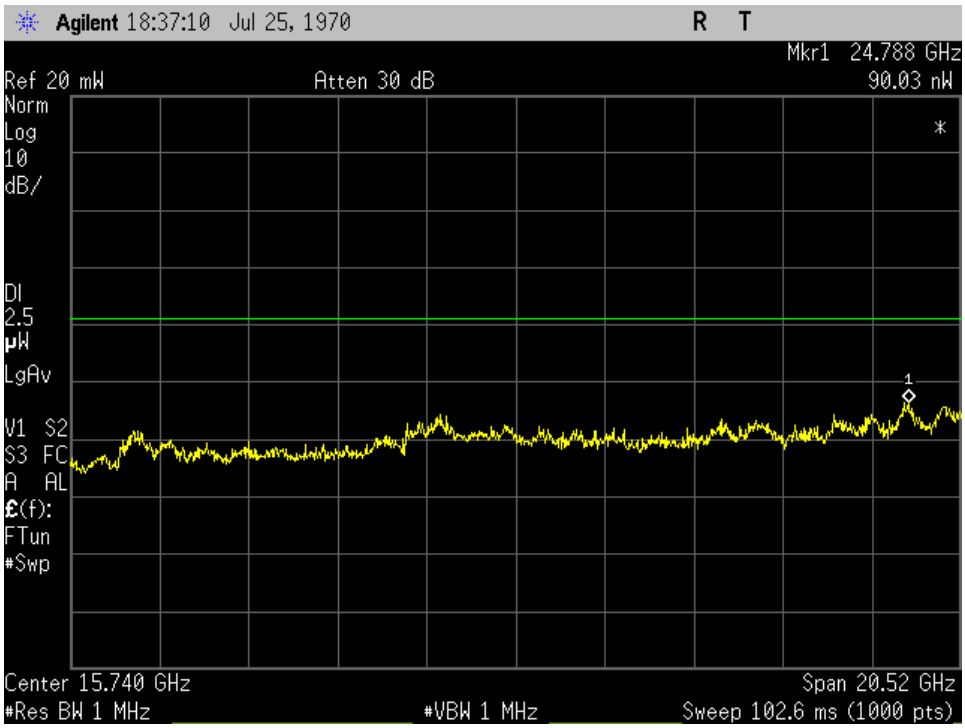


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W53_5310MHz_High Ch_62_40MHz BW_n-mode_Above Carrier_Port 1

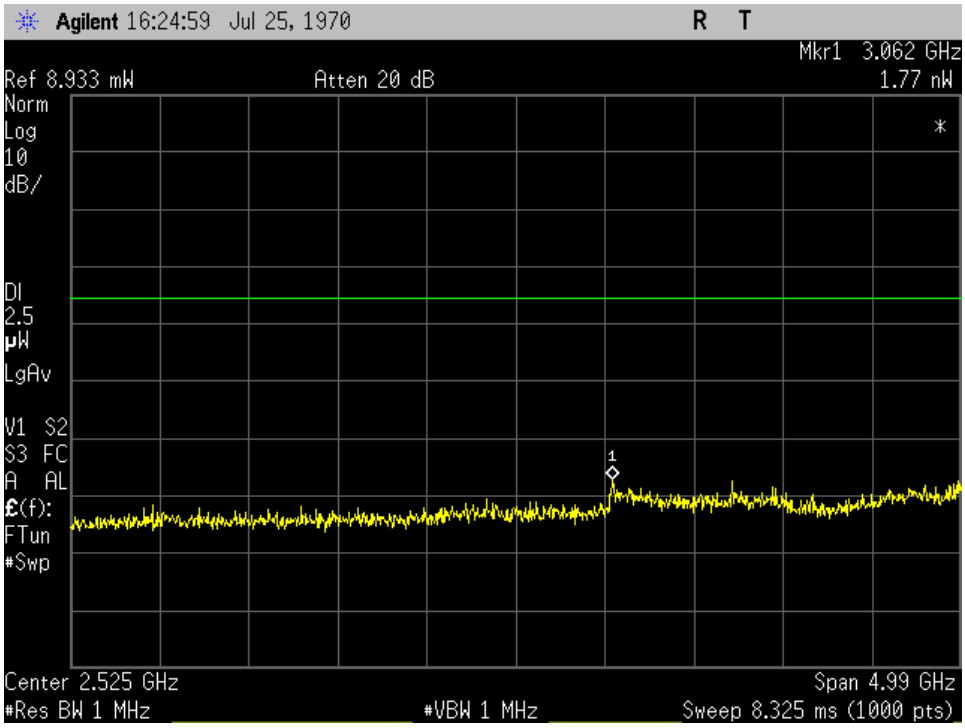


W53_5310MHz_High Ch_62_40MHz BW_n-mode_Above Carrier_Port 2

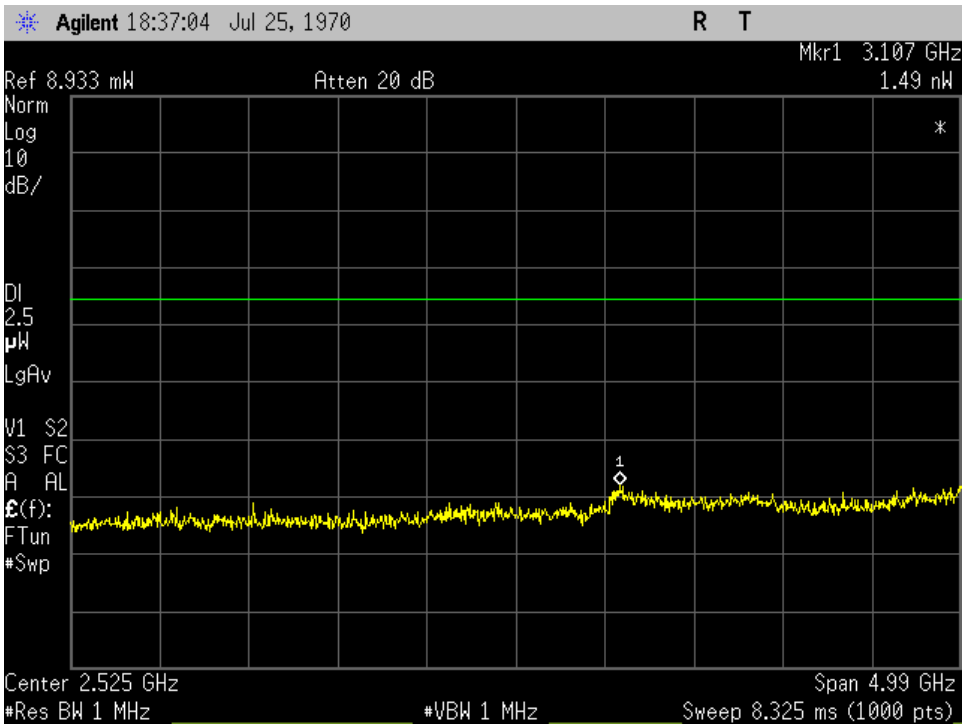


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W53_5310MHz_High Ch_62_40MHz BW_n-mode_Below Carrier_Port 1

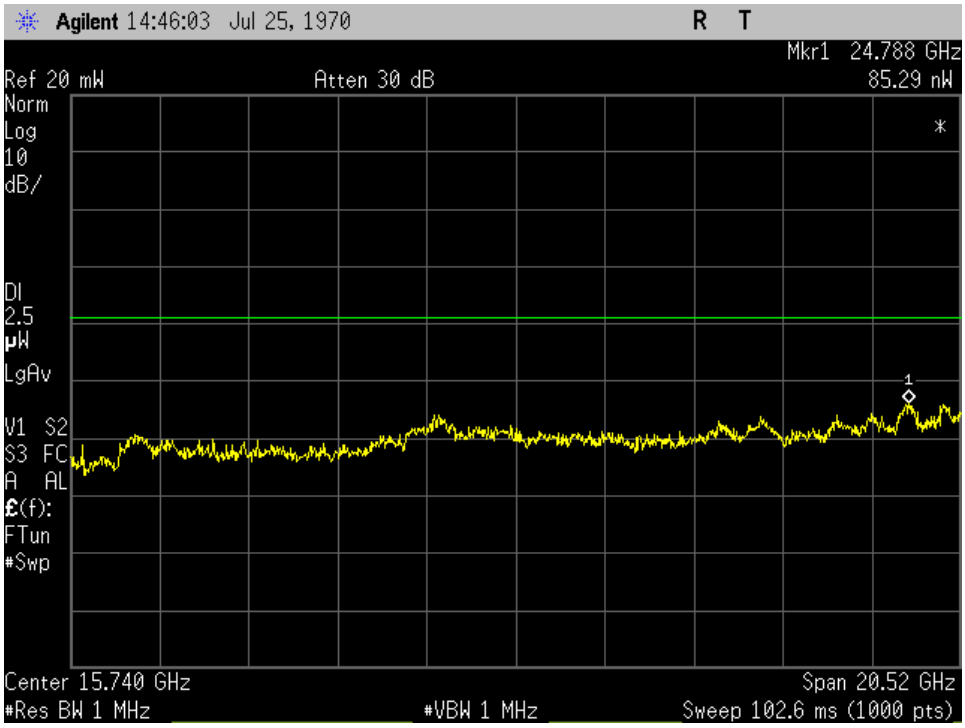


W53_5310MHz_High Ch_62_40MHz BW_n-mode_Below Carrier_Port 2

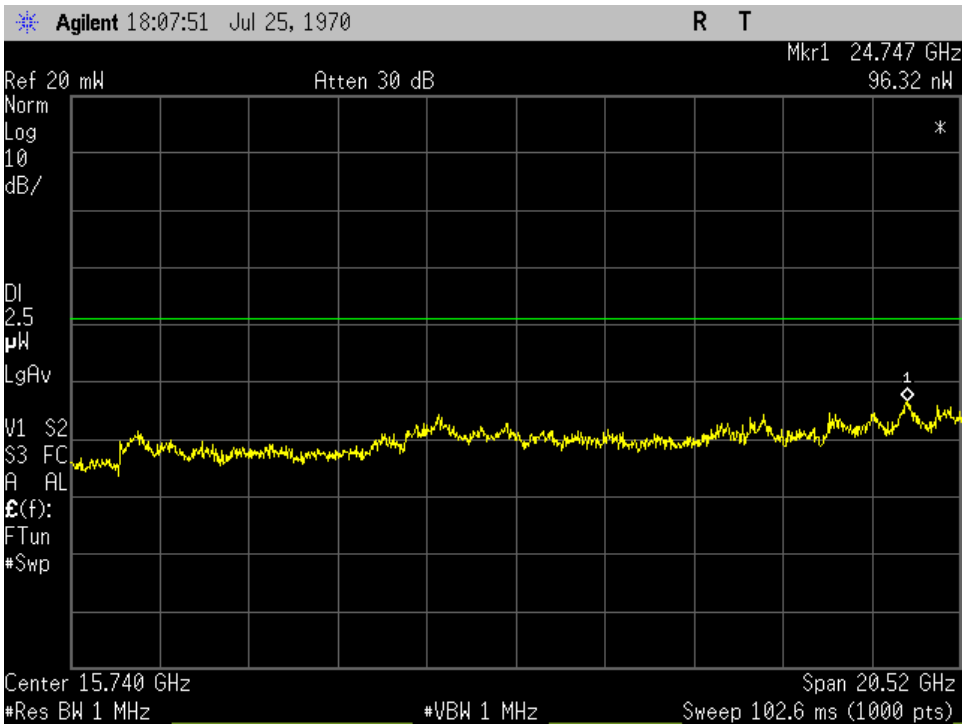


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W53_5320MHz_High Ch_64_20MHz BW_a-mode_Above Carrier_Port 1

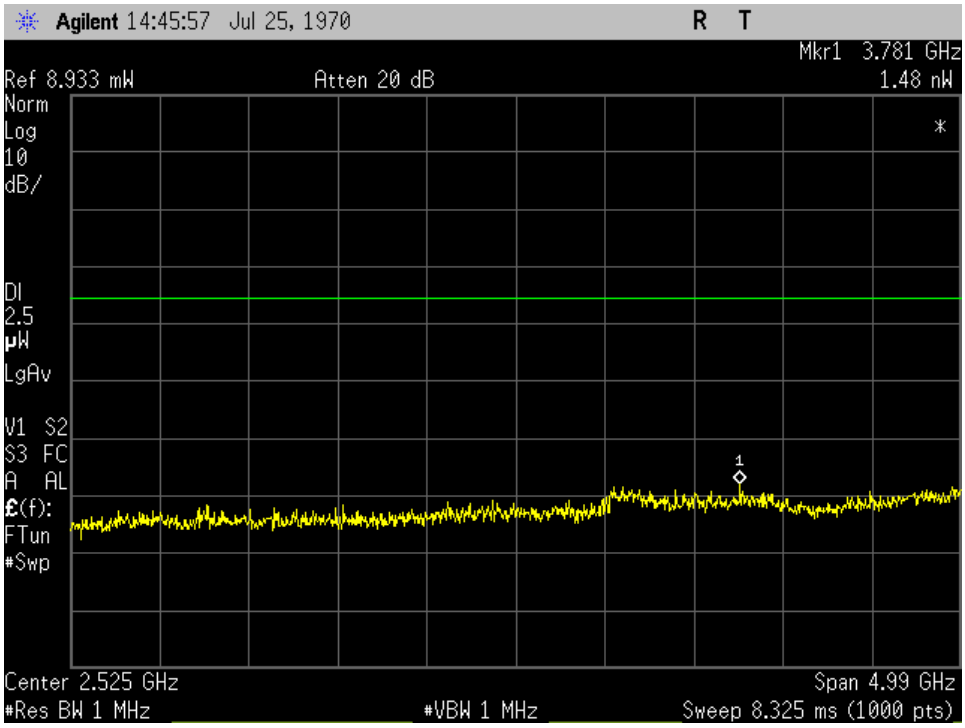


W53_5320MHz_High Ch_64_20MHz BW_a-mode_Above Carrier_Port 2

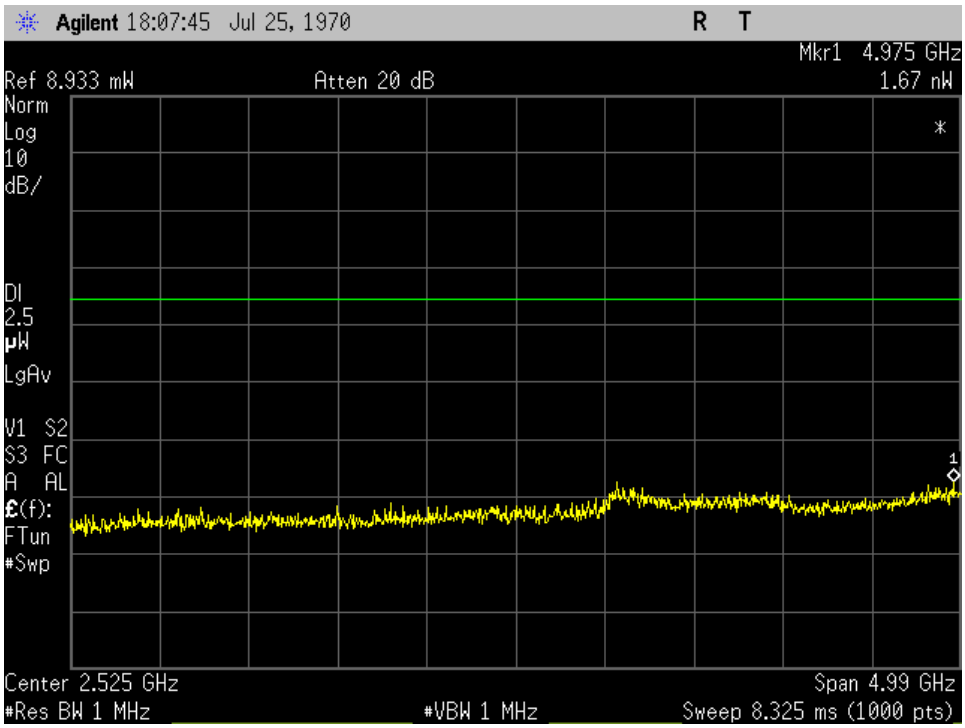


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W53_5320MHz_High Ch_64_20MHz BW_a-mode_Below Carrier_Port 1

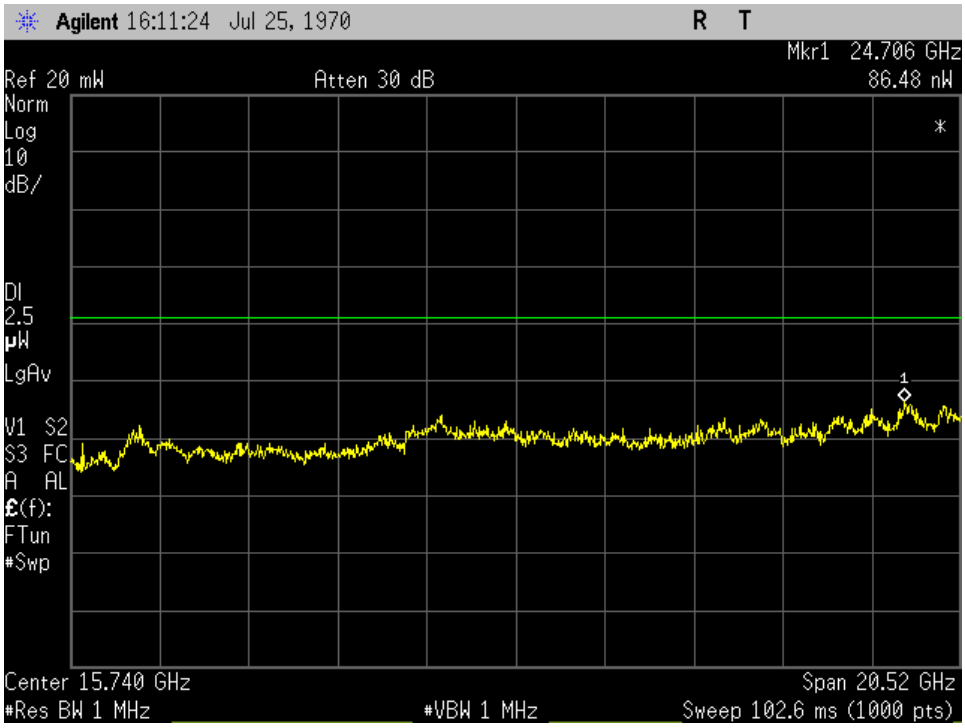


W53_5320MHz_High Ch_64_20MHz BW_a-mode_Below Carrier_Port 2

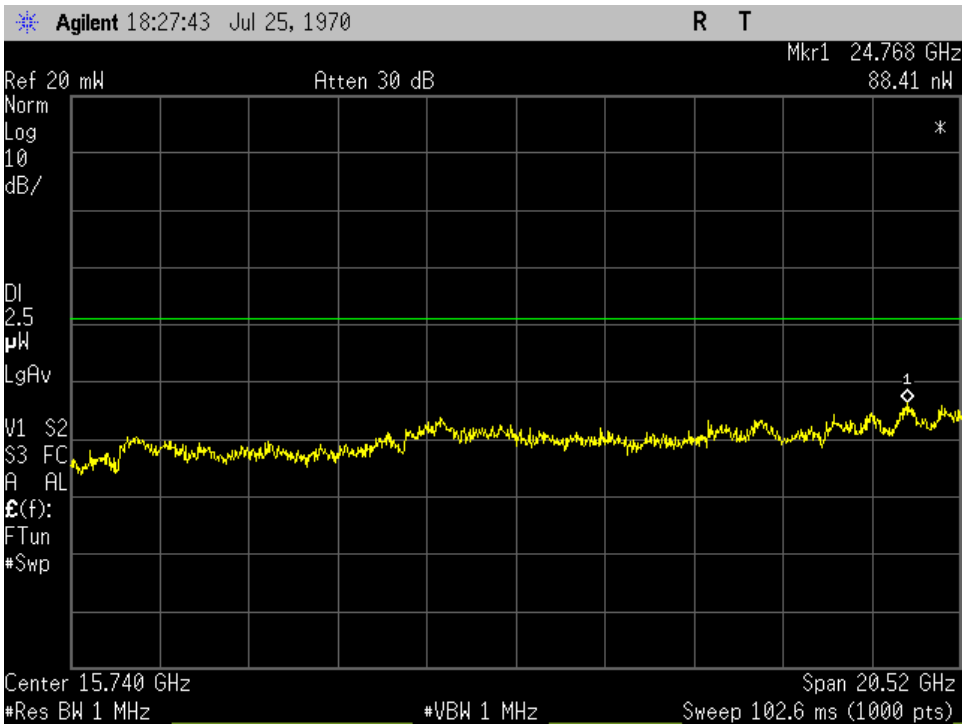


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W53_5320MHz_High Ch_64_20MHz BW_n-mode_Above Carrier_Port 1

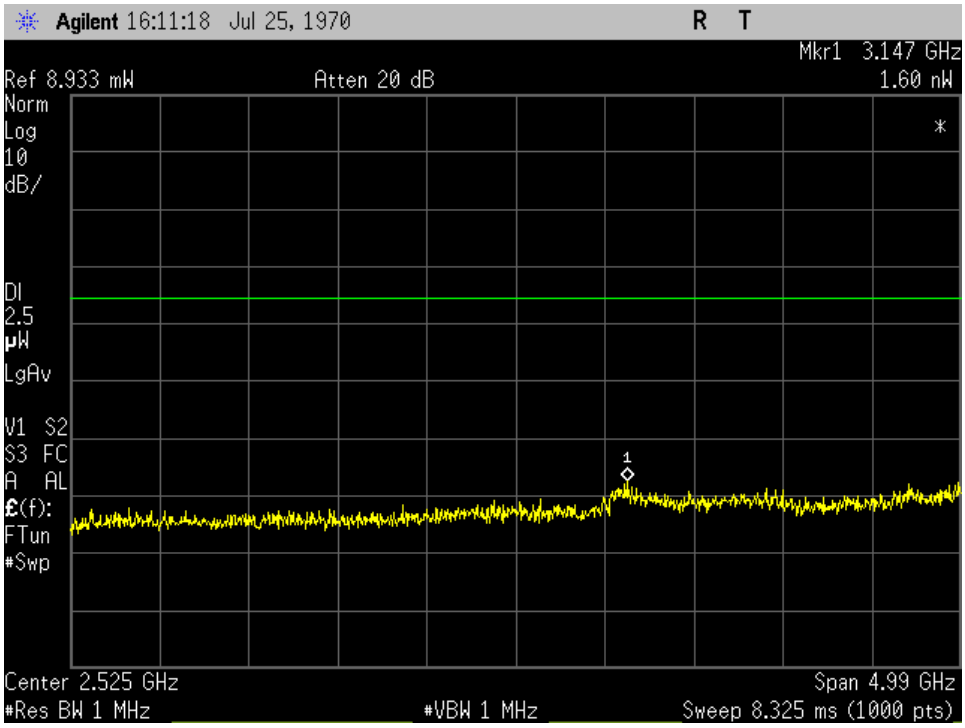


W53_5320MHz_High Ch_64_20MHz BW_n-mode_Above Carrier_Port 2

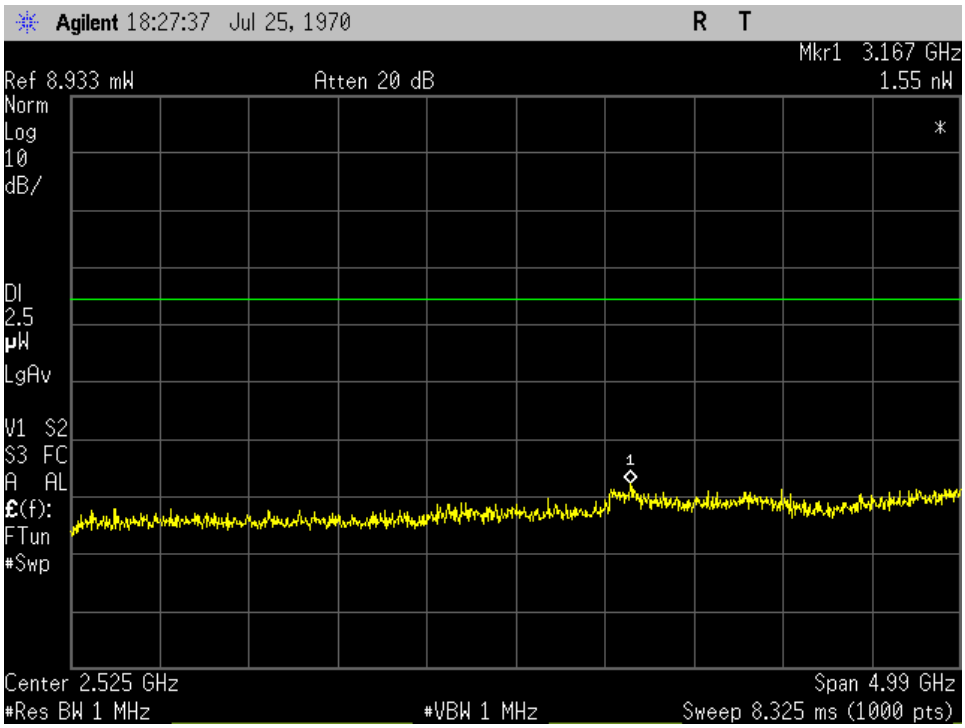


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W53_5320MHz_High Ch_64_20MHz BW_n-mode_Below Carrier_Port 1

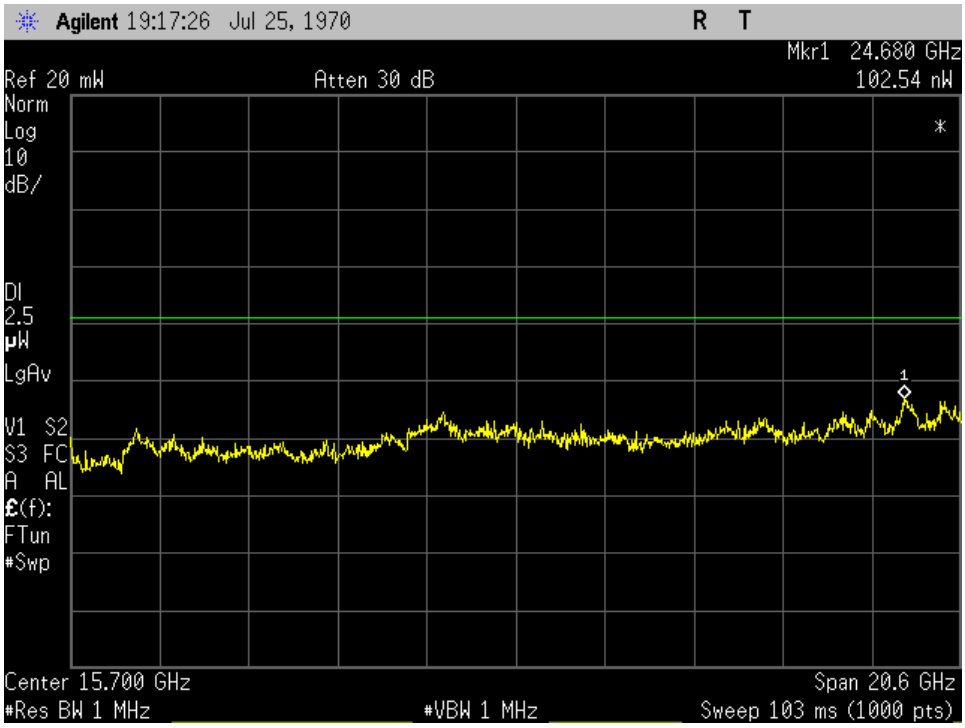


W53_5320MHz_High Ch_64_20MHz BW_n-mode_Below Carrier_Port 2

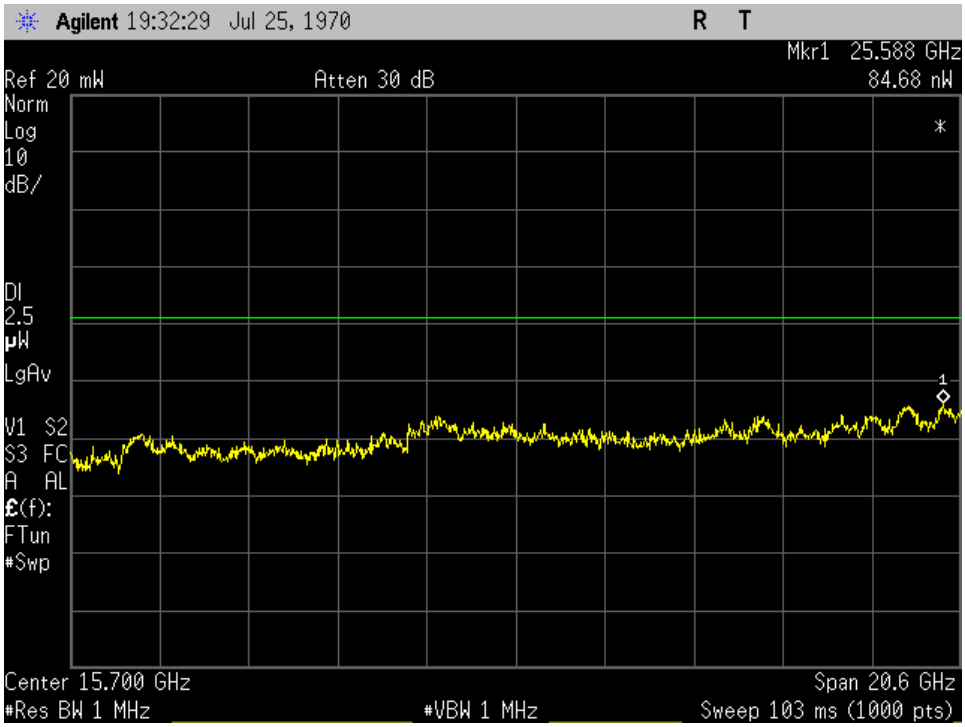


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W53_5290MHz_High Ch_58_80MHz BW_ax-mode_Above Carrier_Port 1

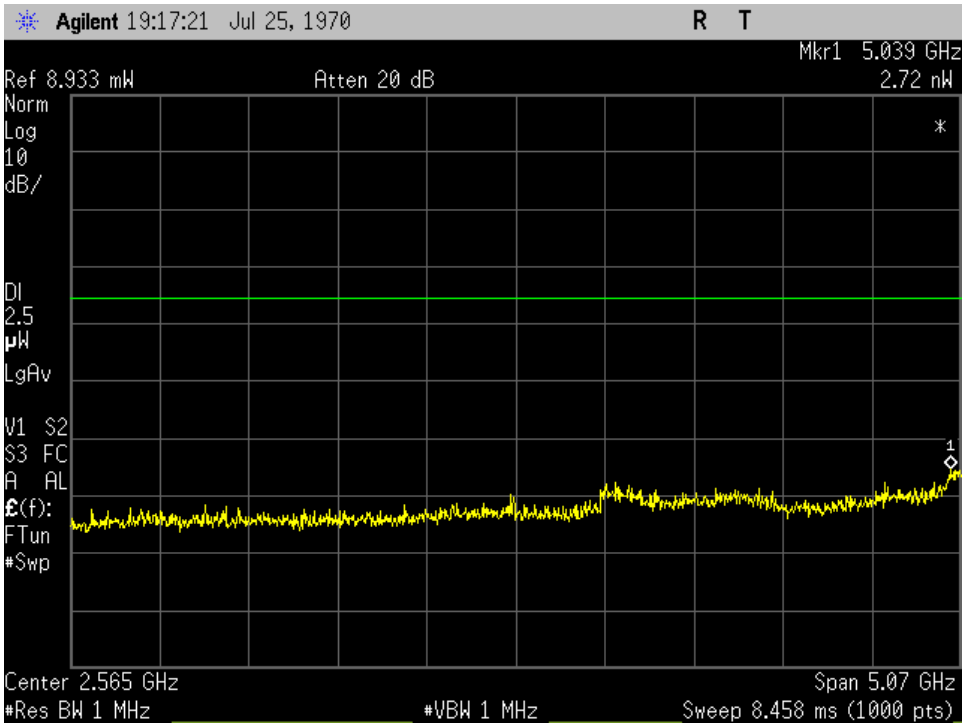


W53_5290MHz_High Ch_58_80MHz BW_ax-mode_Above Carrier_Port 2

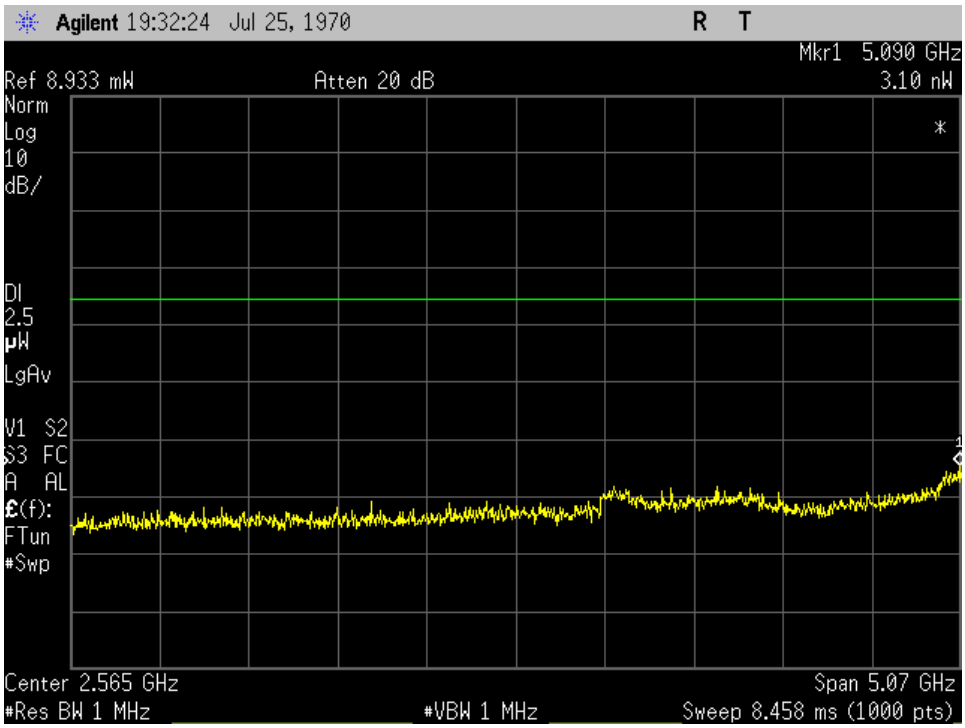


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W53_5290MHz_High Ch_58_80MHz BW_ax-mode_Below Carrier_Port 1



W53_5290MHz_High Ch_58_80MHz BW_ax-mode_Below Carrier_Port 2

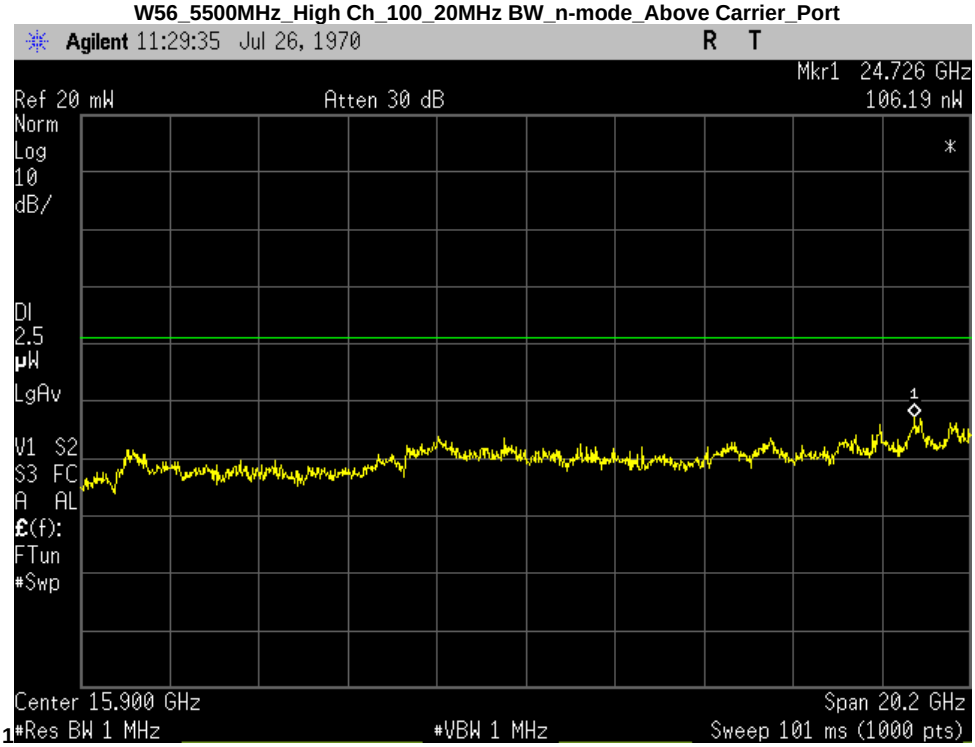


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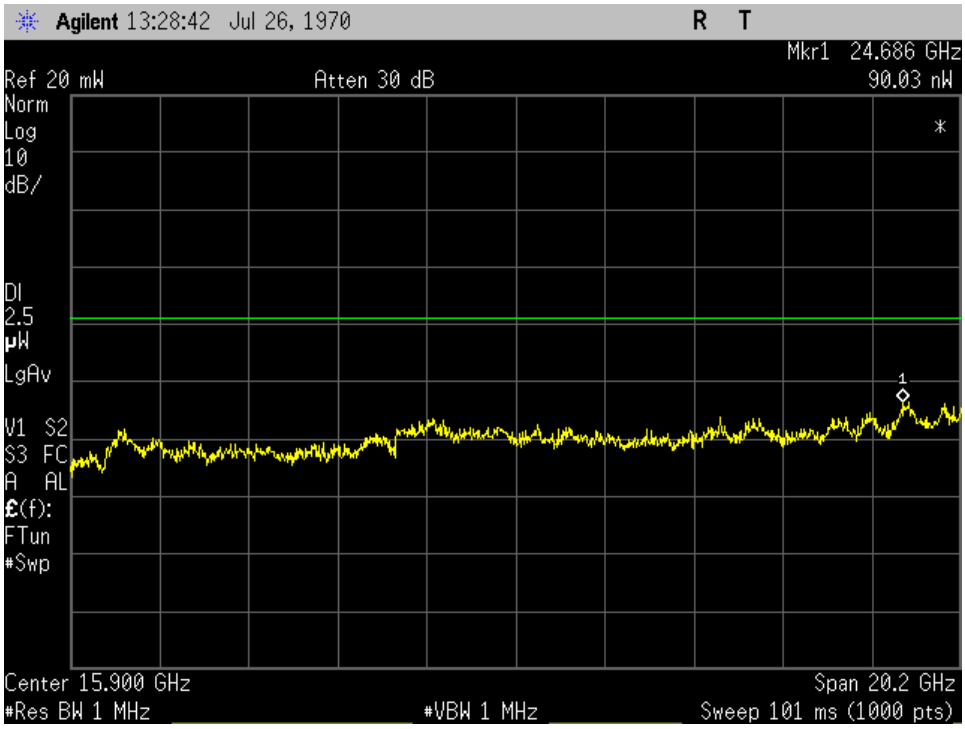
Spurious Emissions (W56 Band)

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W56_5500MHz_High Ch_100_20MHz BW_n-mode_Above Carrier_Port

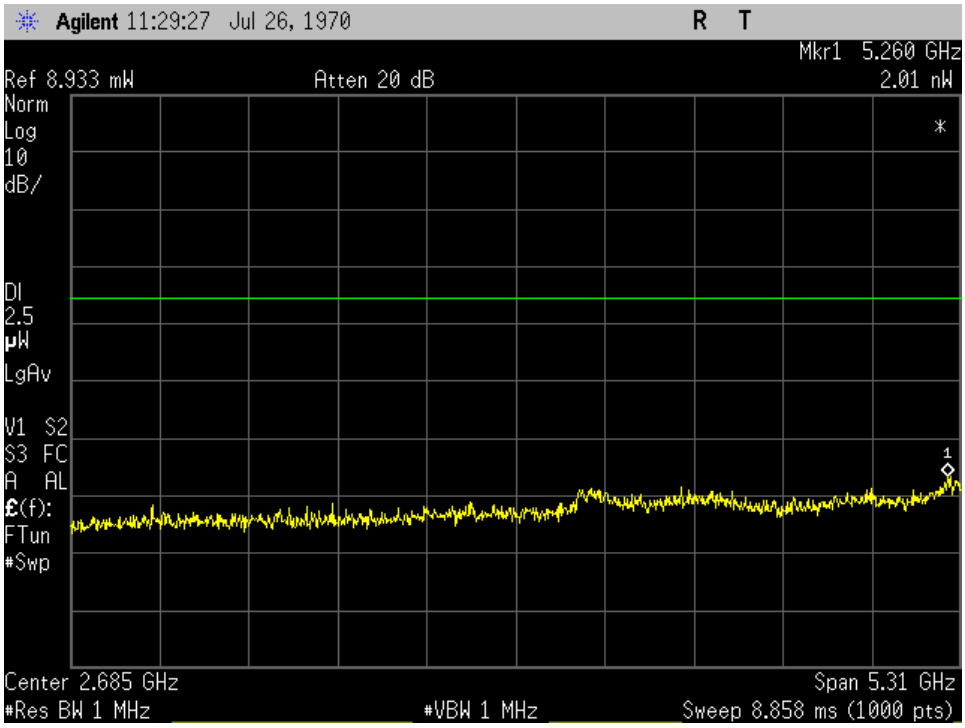


W56_5500MHz_High Ch_100_20MHz BW_n-mode_Above Carrier_Port 2

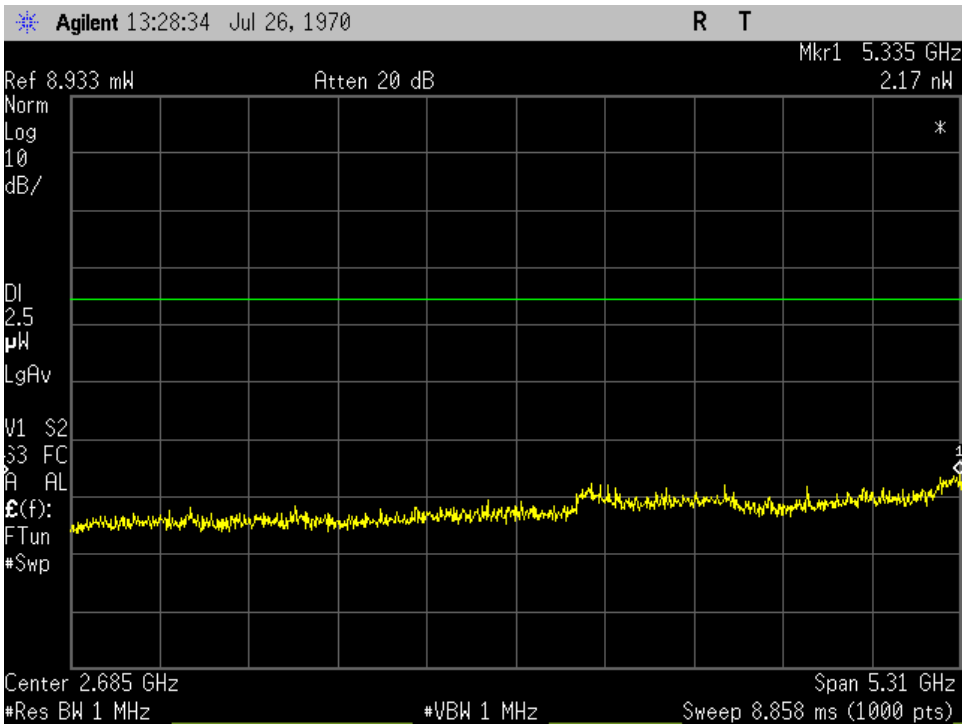


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W56_5500MHz_High Ch_100_20MHz BW_n-mode_Below Carrier_Port 1

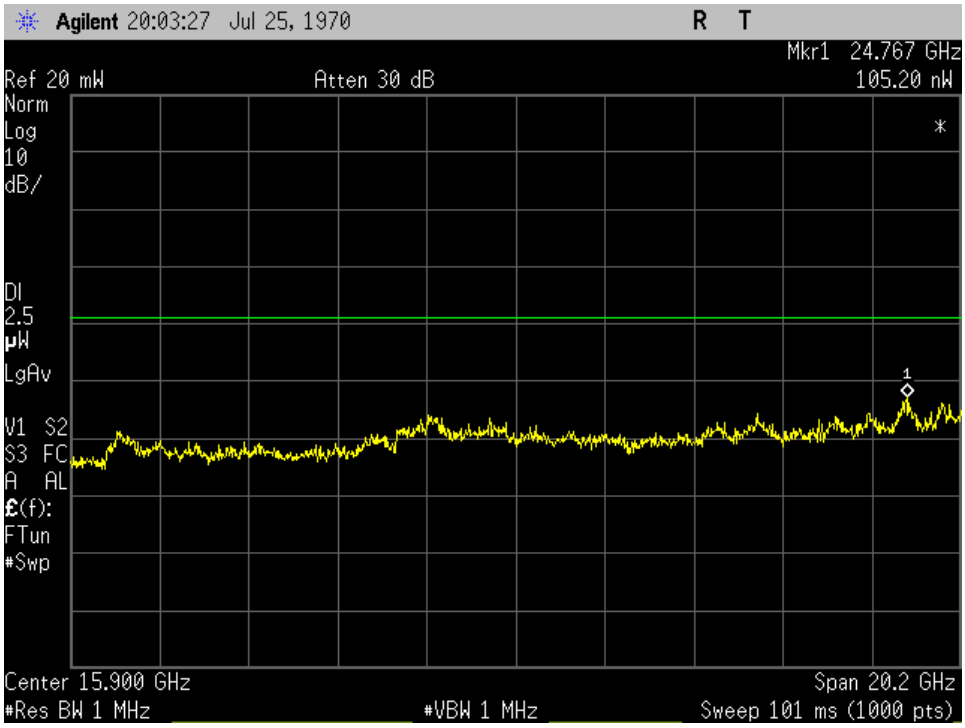


W56_5500MHz_High Ch_100_20MHz BW_n-mode_Below Carrier_Port 2

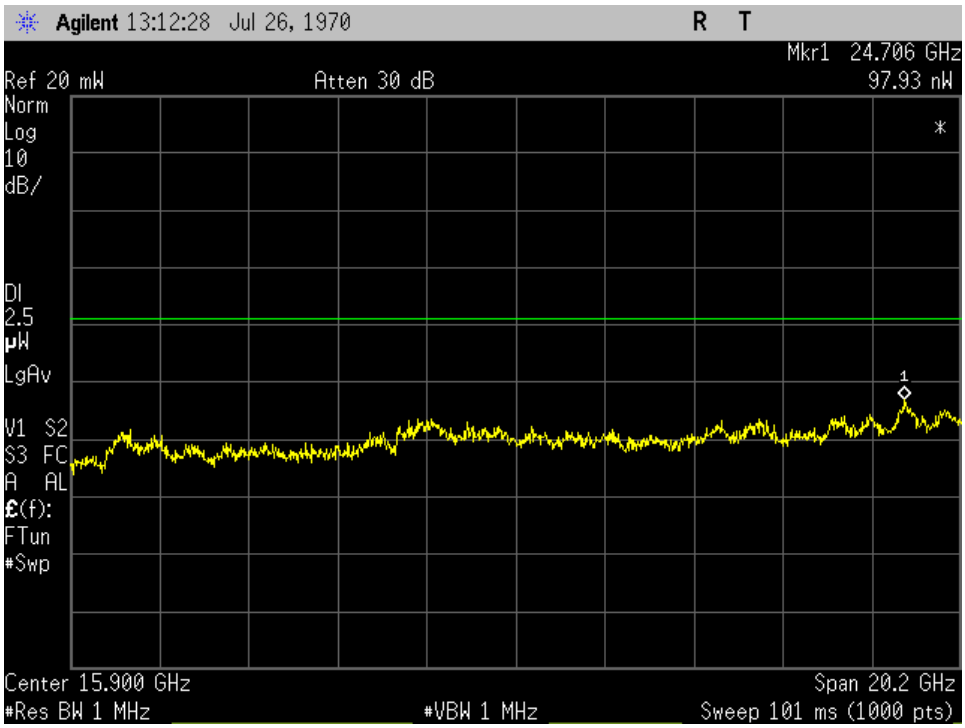


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W56_5500MHz_Low Ch_100_20MHz BW_a-mode_Above Carrier_Port 1

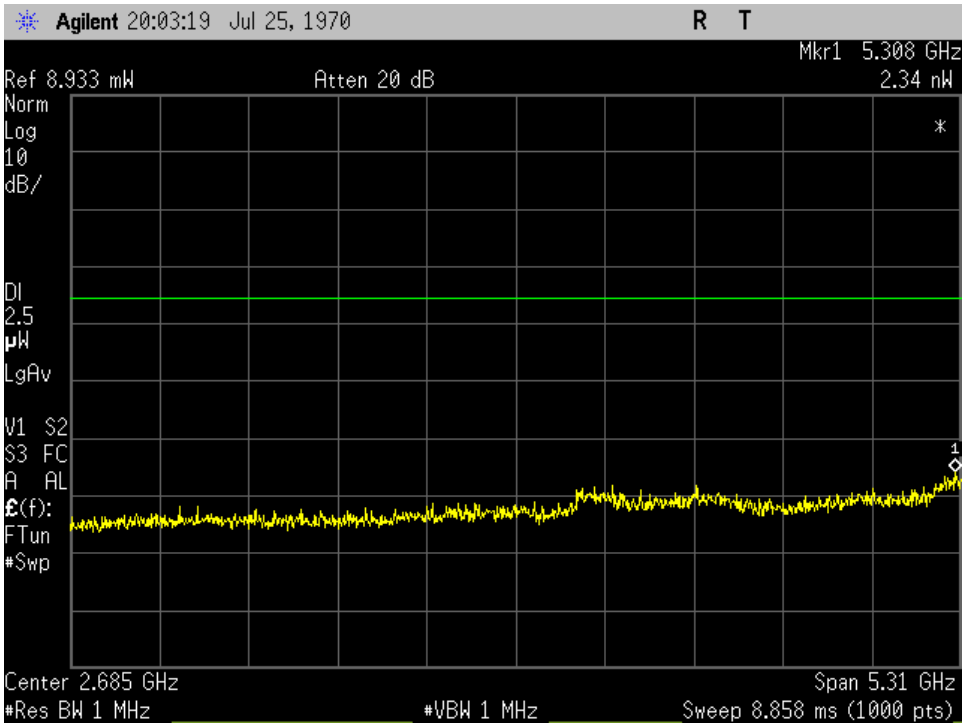


W56_5500MHz_Low Ch_100_20MHz BW_a-mode_Above Carrier_Port 2

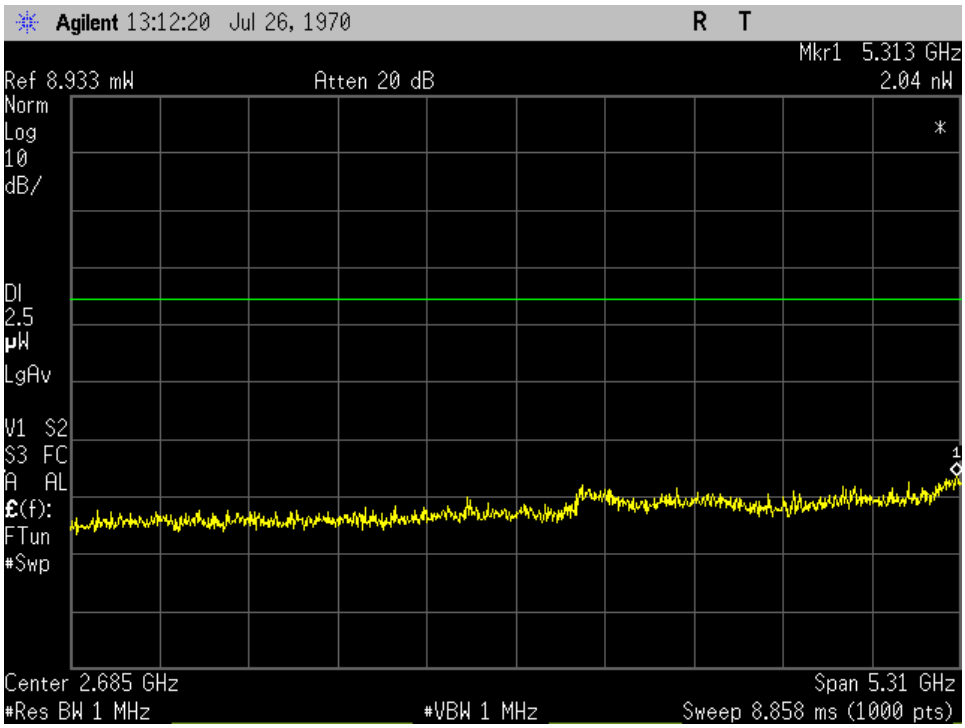


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W56_5500MHz_Low Ch_100_20MHz BW_a-mode_Below Carrier_Port 1

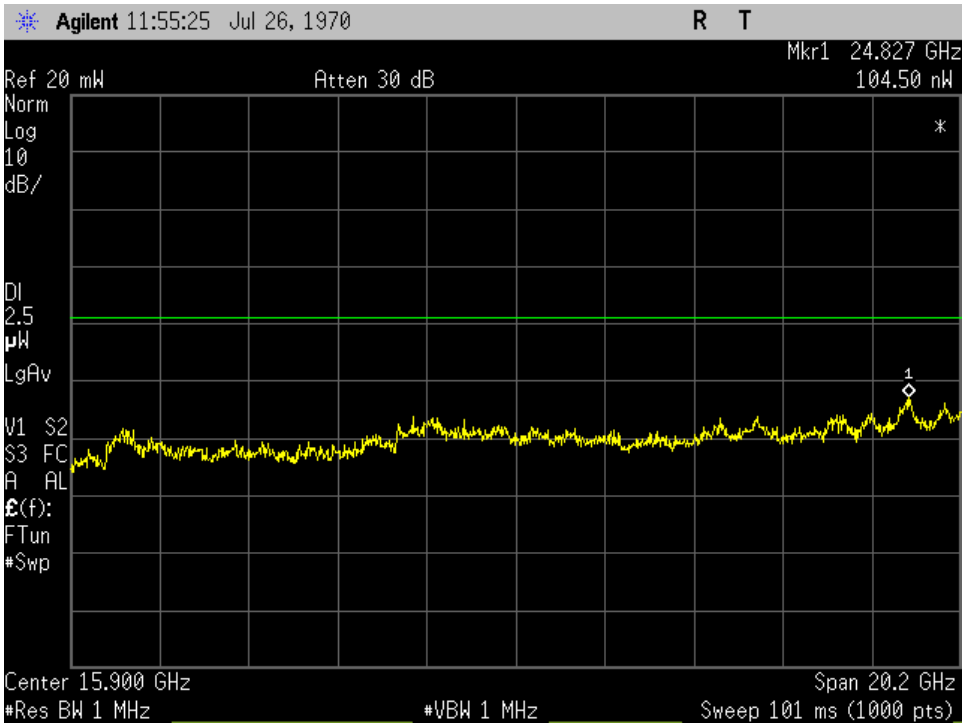


W56_5500MHz_Low Ch_100_20MHz BW_a-mode_Below Carrier_Port 2

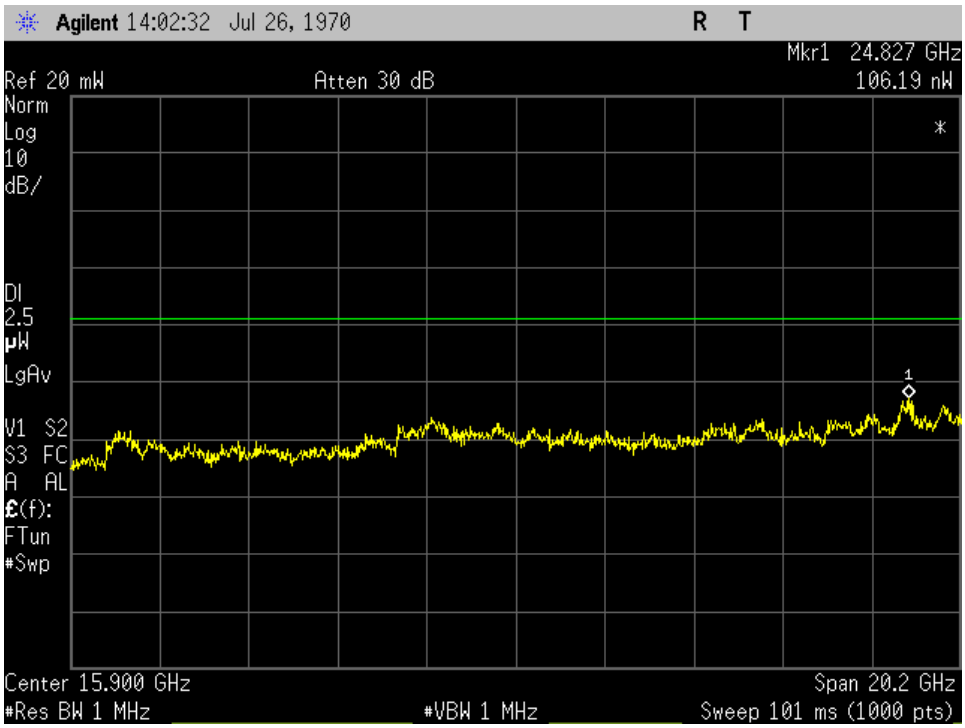


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W56_5500MHz_Low Ch_100_20MHz BW_ac-mode_Above Carrier_Port 1

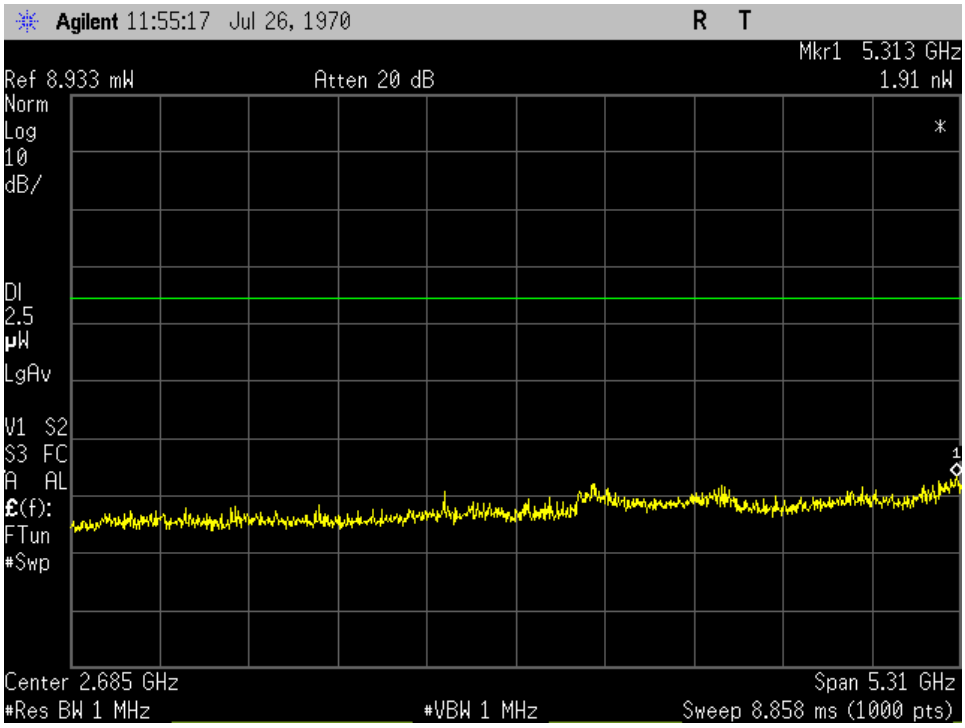


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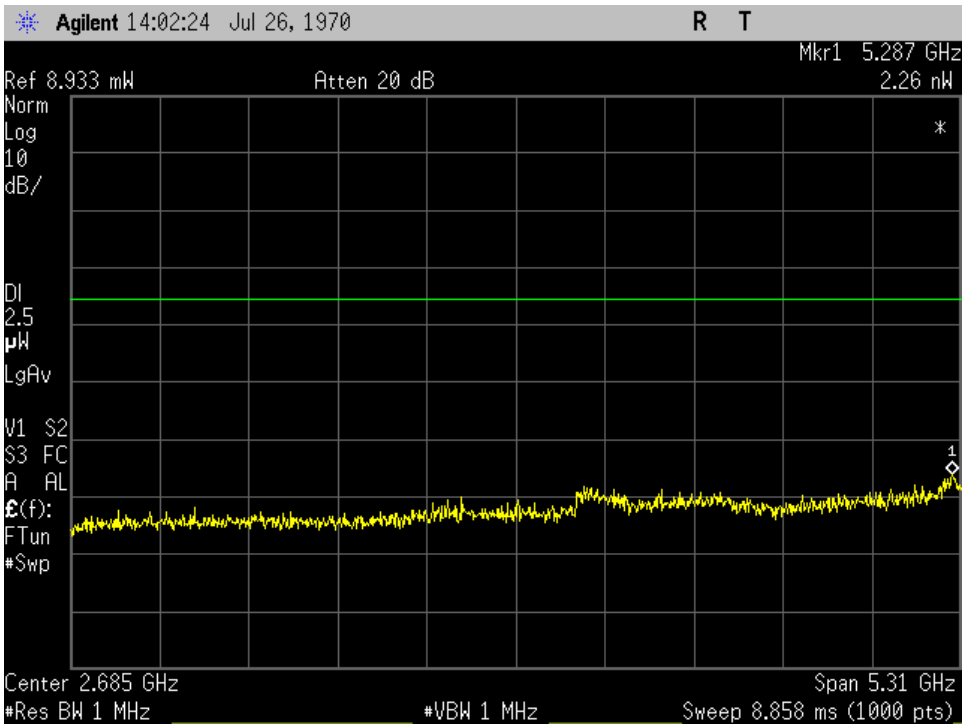


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W56_5500MHz_Low Ch_100_20MHz BW_ac-mode_Below Carrier_Port 1

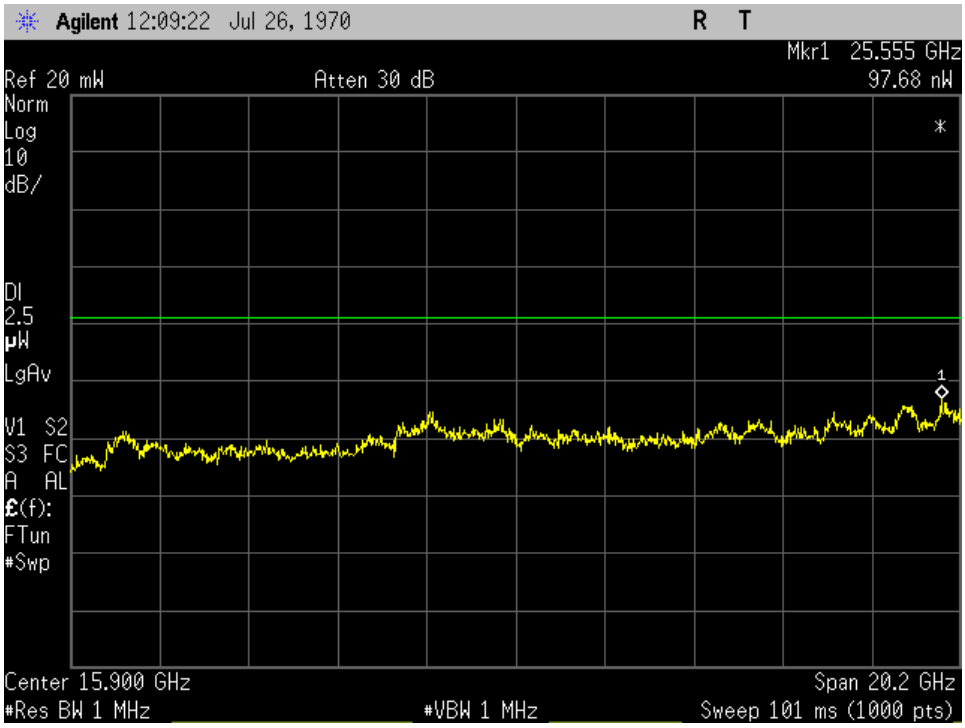


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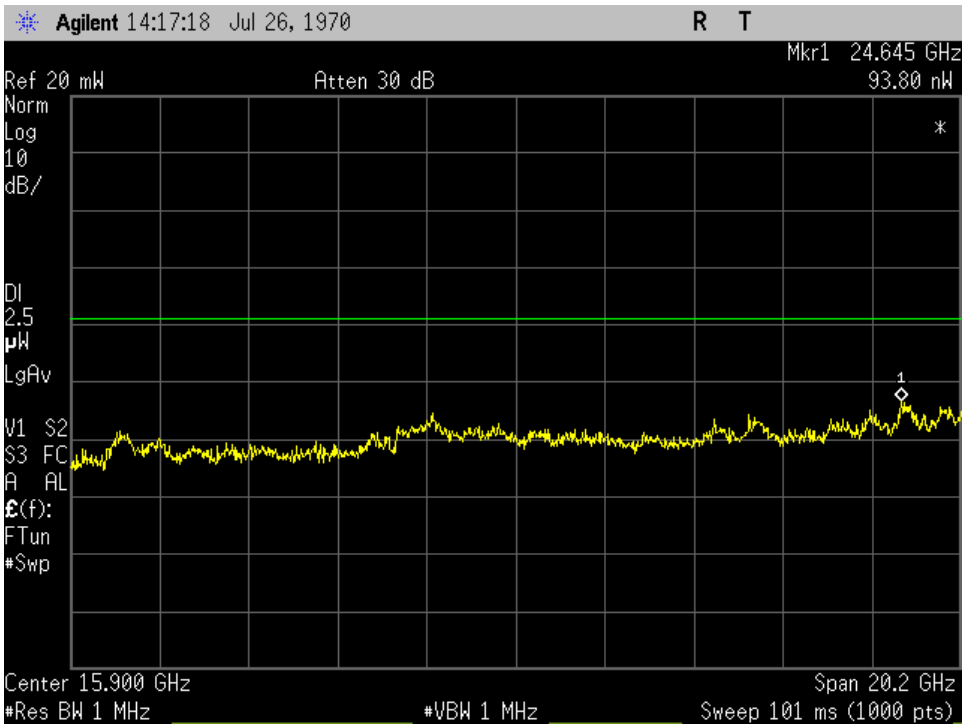


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W56_5510MHz_High Ch_102_40MHz BW_n-mode_Above Carrier_Port 1

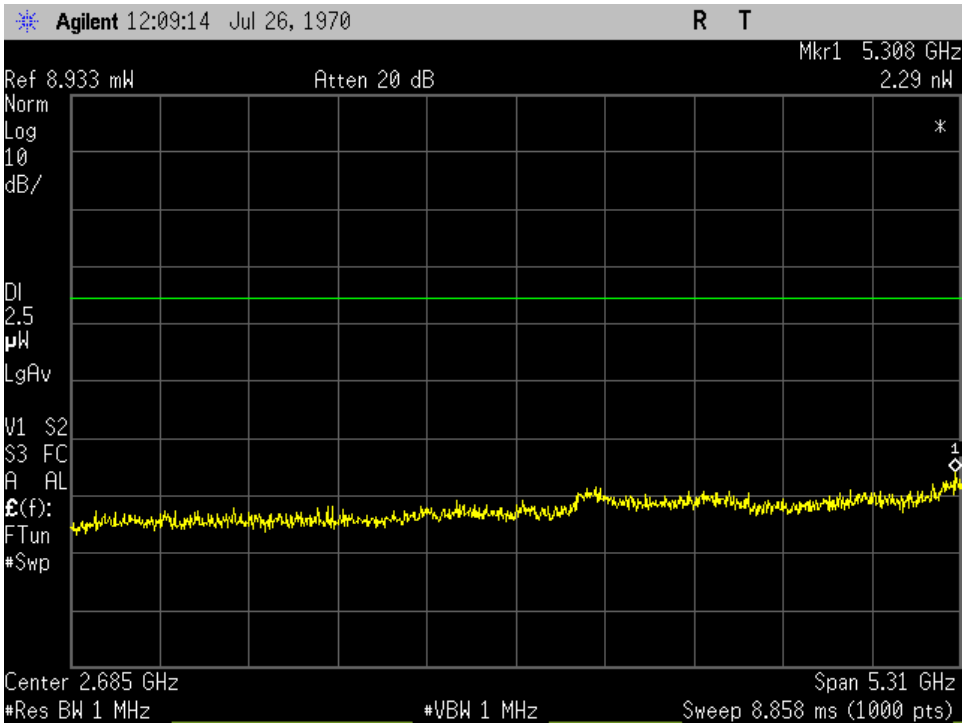


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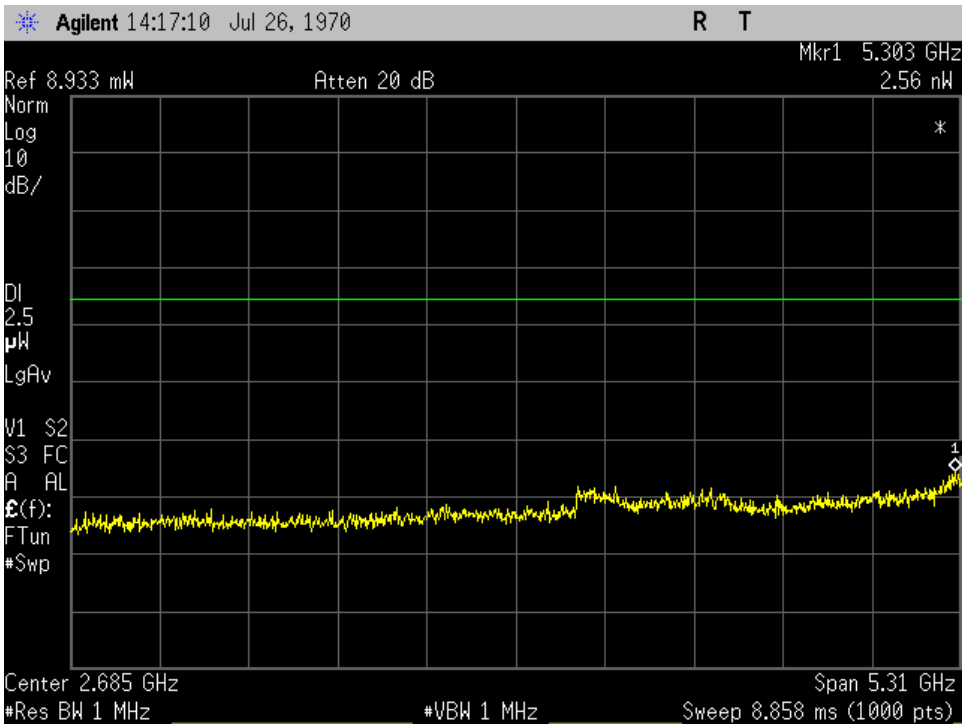


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W56_5510MHz_High Ch_102_40MHz BW_n-mode_Below Carrier_Port 1

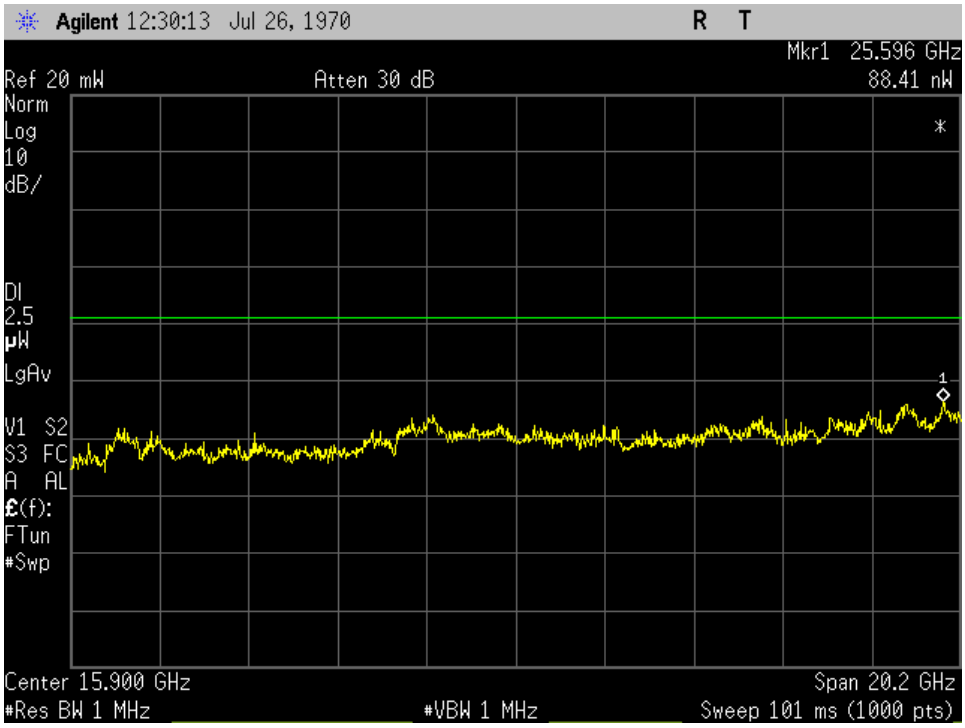


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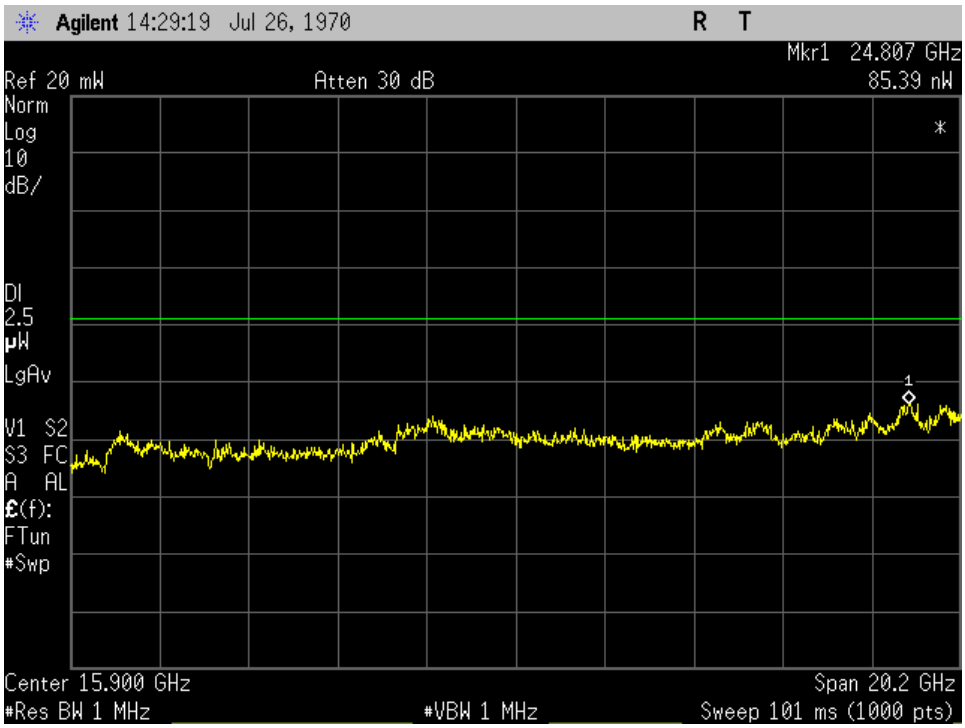


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W56_5510MHz_Mid Ch_102_40MHz BW_ac-mode_Above Carrier_Port 1

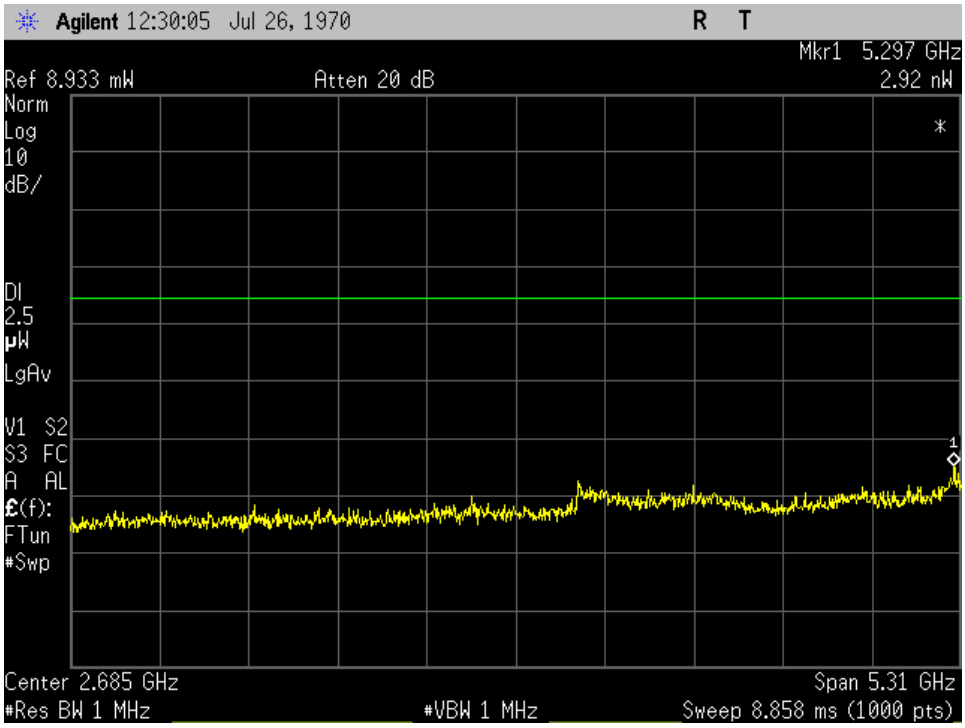


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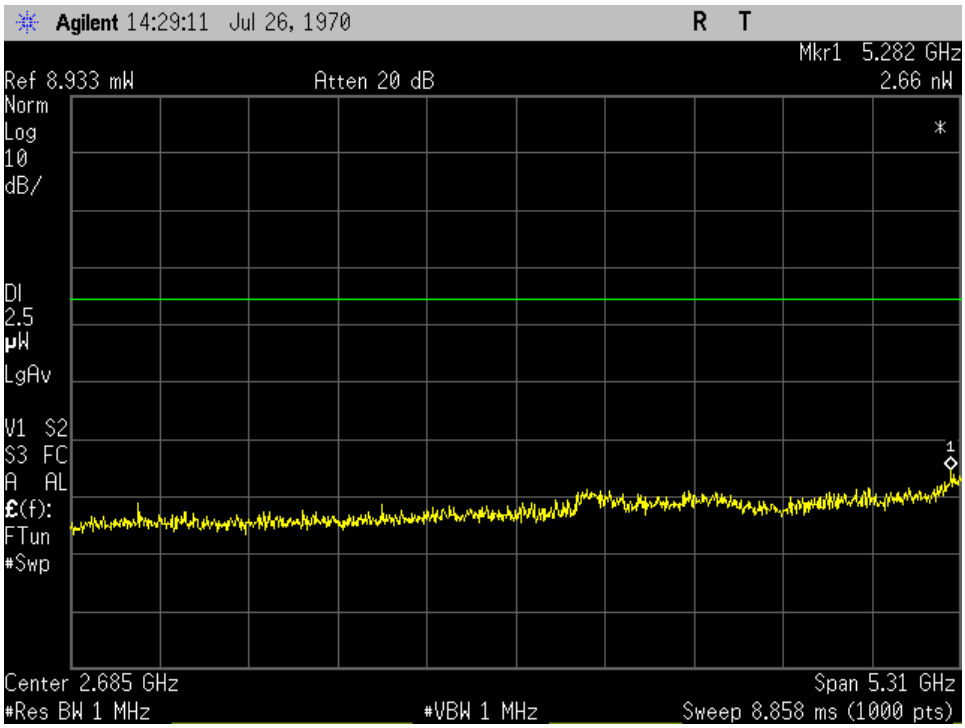


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W56_5510MHz_Mid Ch_102_40MHz BW_ac-mode_Below Carrier_Port 1

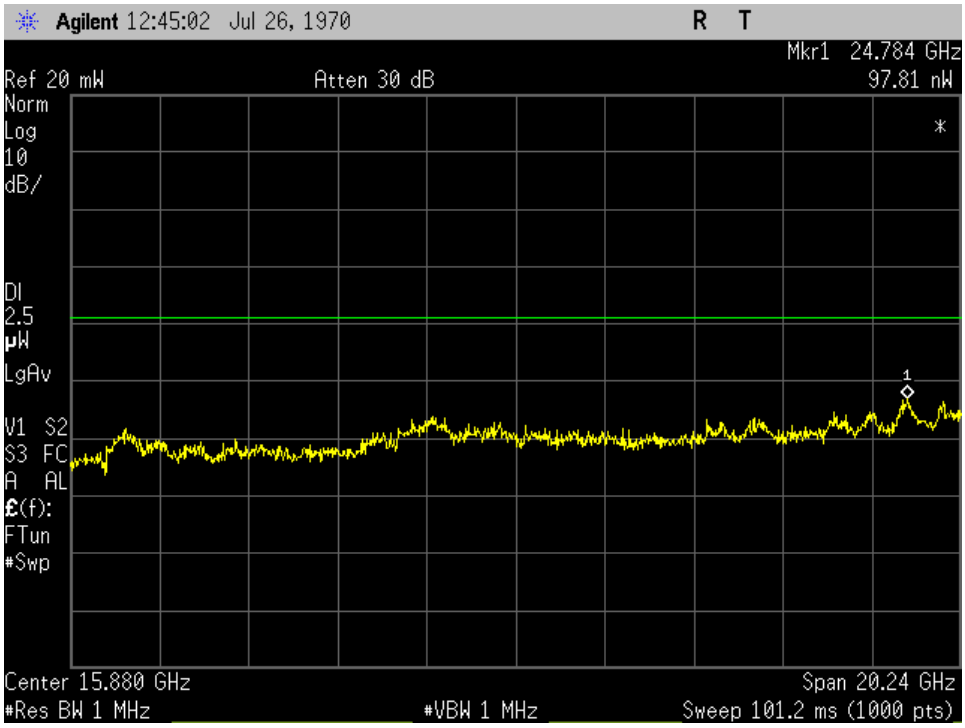


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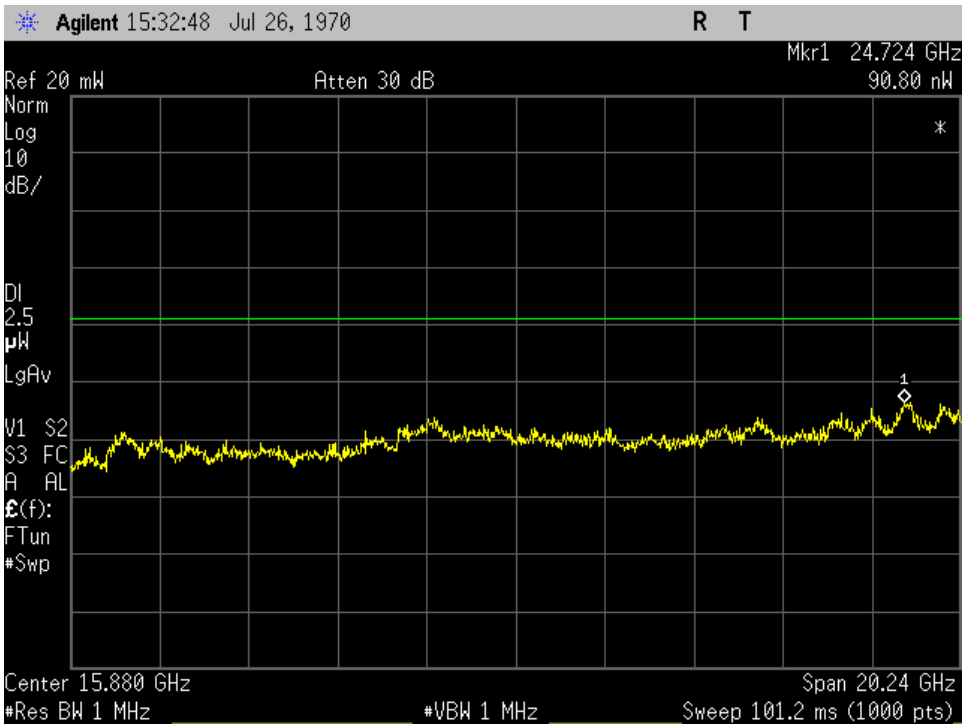


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W56_5530MHz_Low Ch_106_80MHz BW_ac-mode_Above Carrier_Port 1

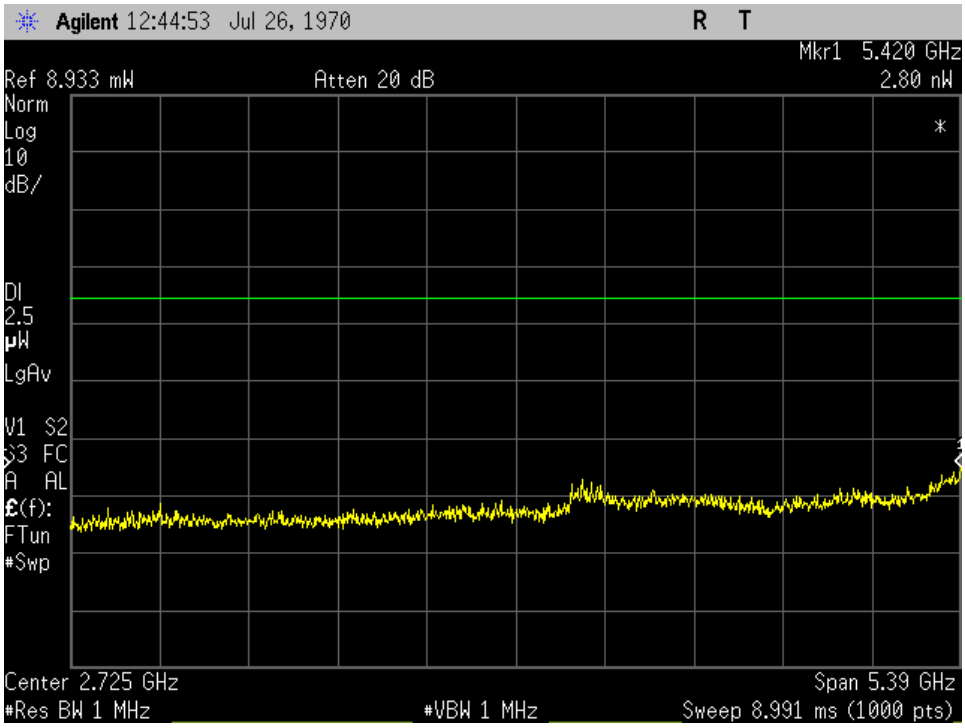


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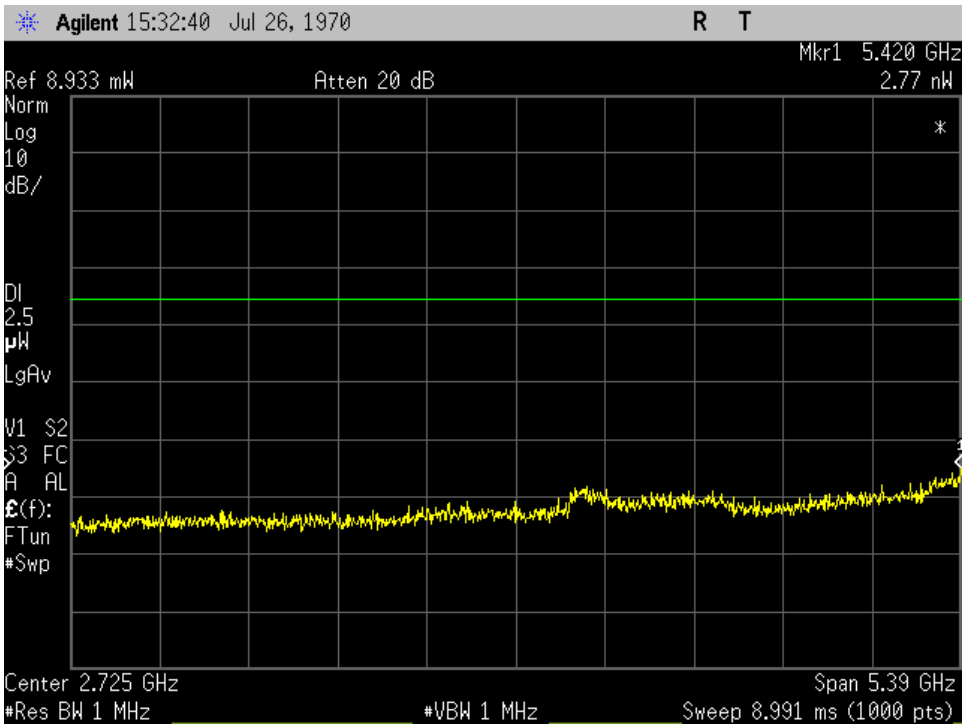


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W56_5530MHz_Low Ch_106_80MHz BW_ac-mode_Below Carrier_Port 1

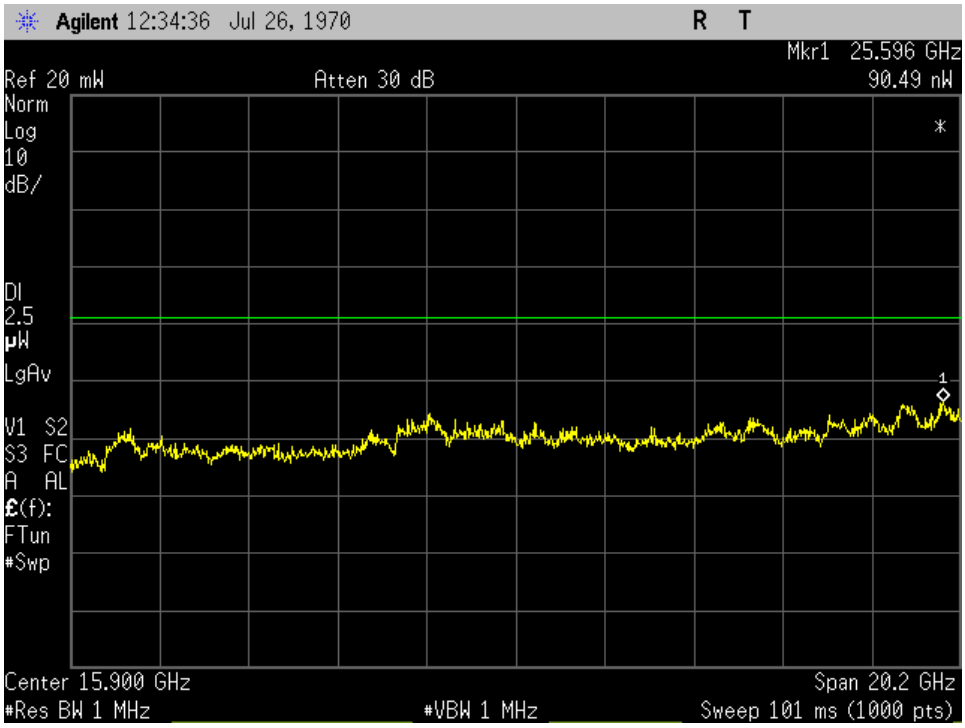


W56_5530MHz_Low Ch_106_80MHz BW_ac-mode_Below Carrier_Port 2

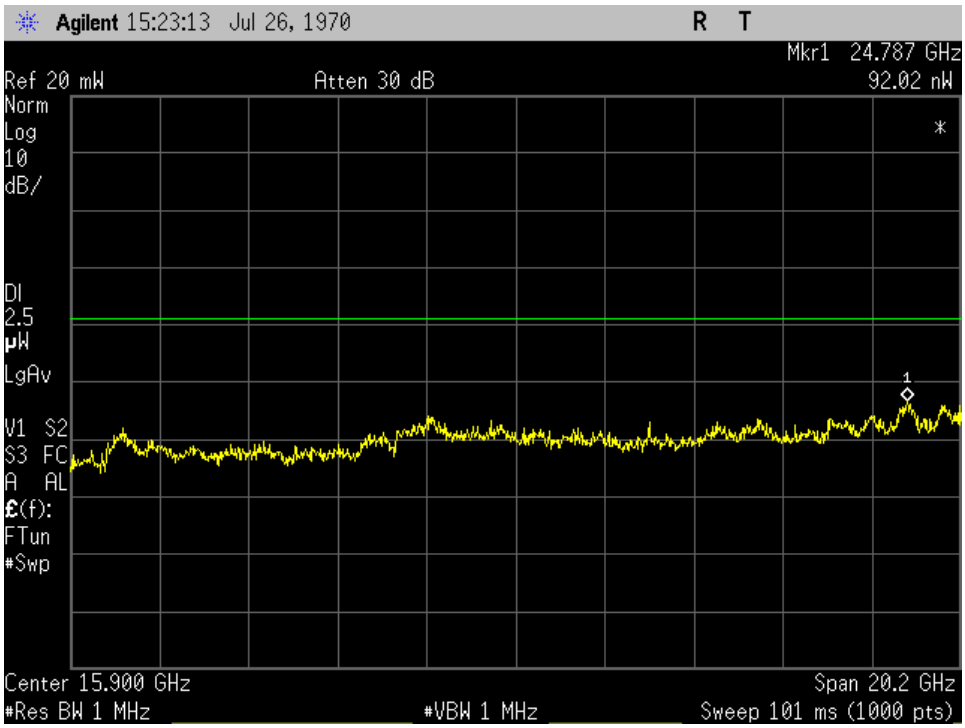


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W56_5590MHz_High Ch_118_40MHz BW_ac-mode_Above Carrier_Port 1

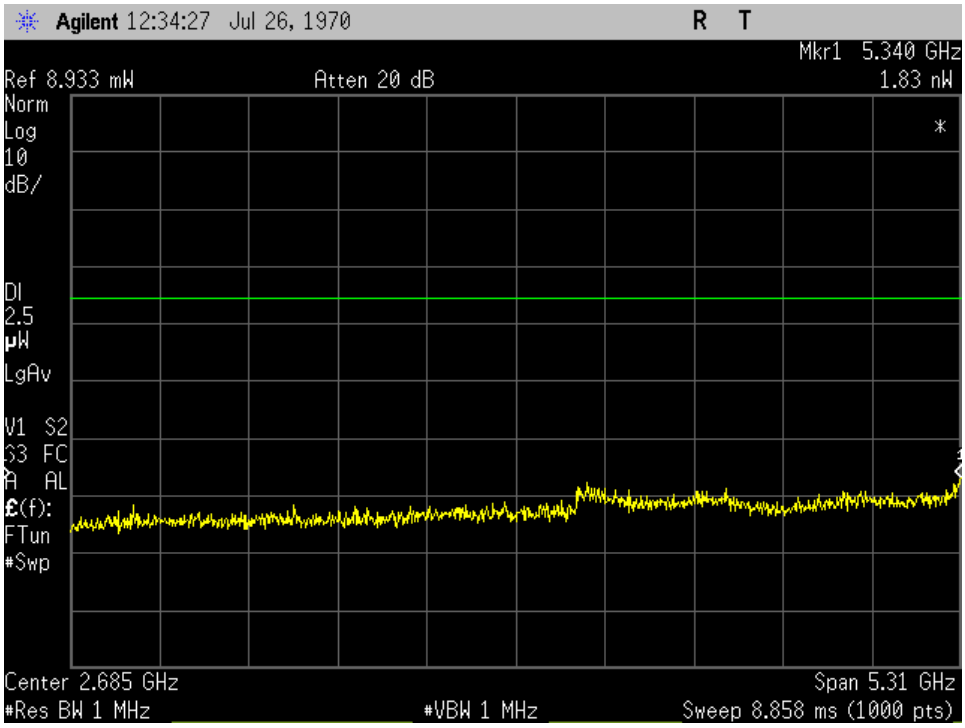


W56_5590MHz_High Ch_118_40MHz BW_ac-mode_Above Carrier_Port 2

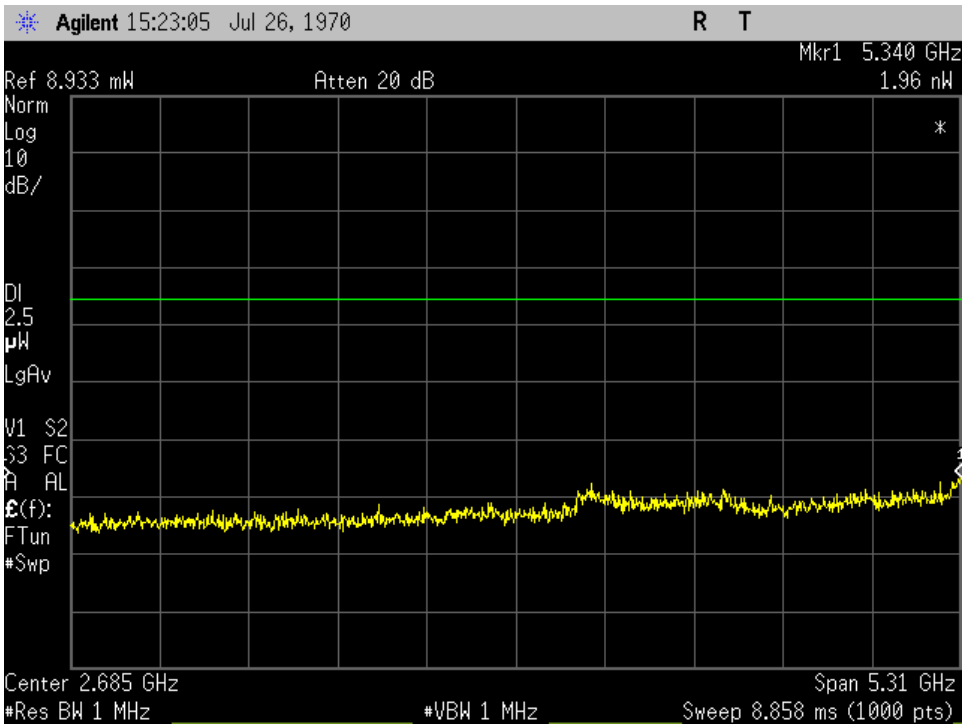


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W56_5590MHz_High Ch_118_40MHz BW_ac-mode_Below Carrier_Port 1

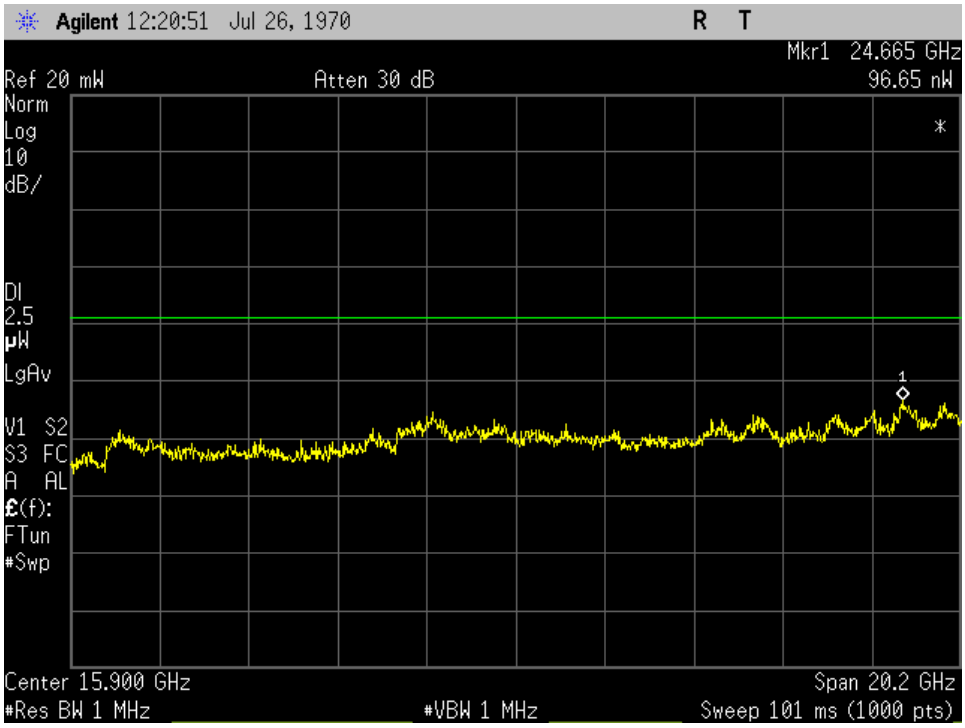


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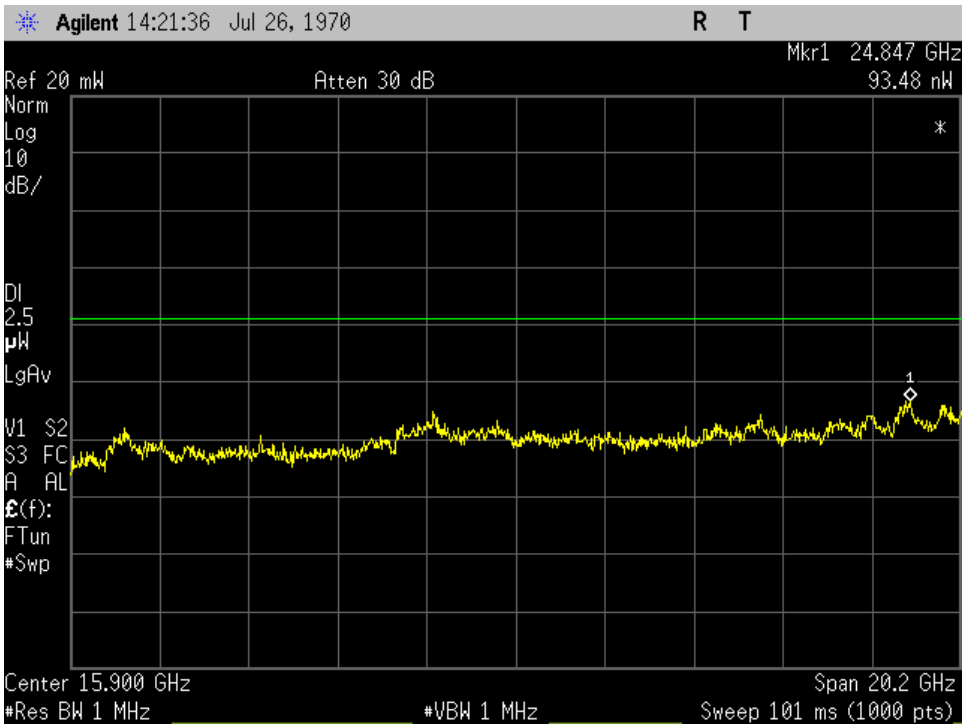


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W56_5590MHz_High Ch_118_40MHz BW_n-mode_Above Carrier_Port 1

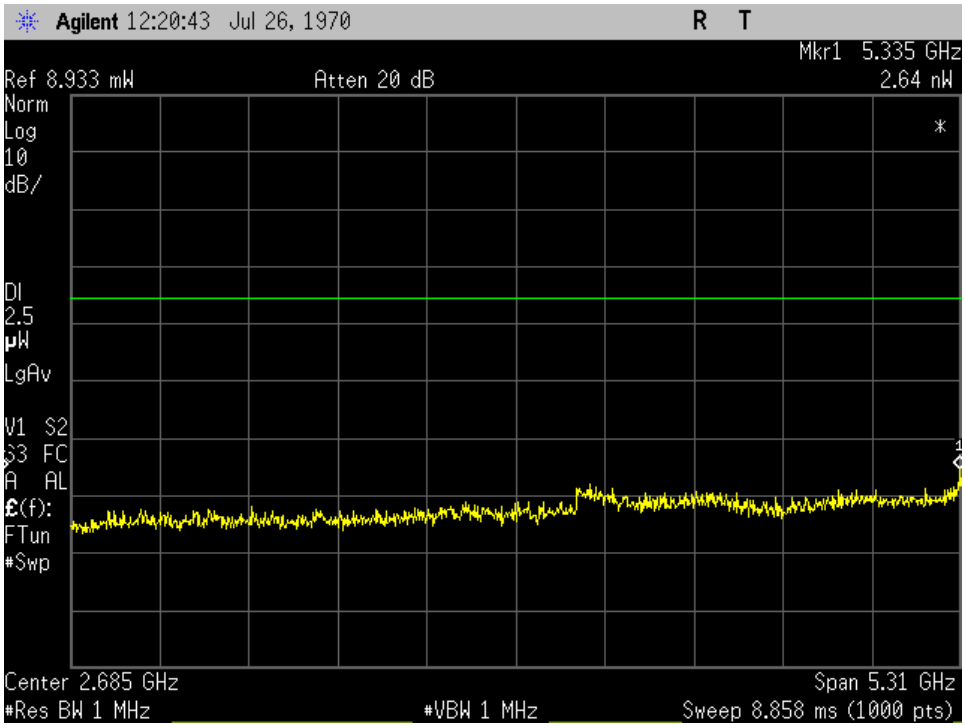


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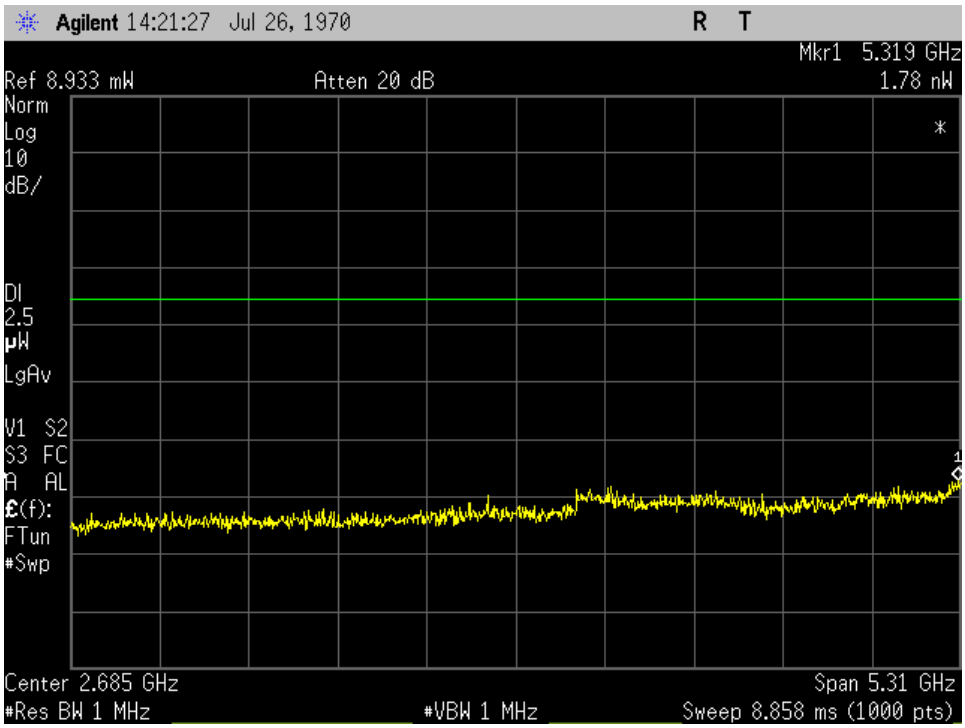


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W56_5590MHz_High Ch_118_40MHz BW_n-mode_Below Carrier_Port 1

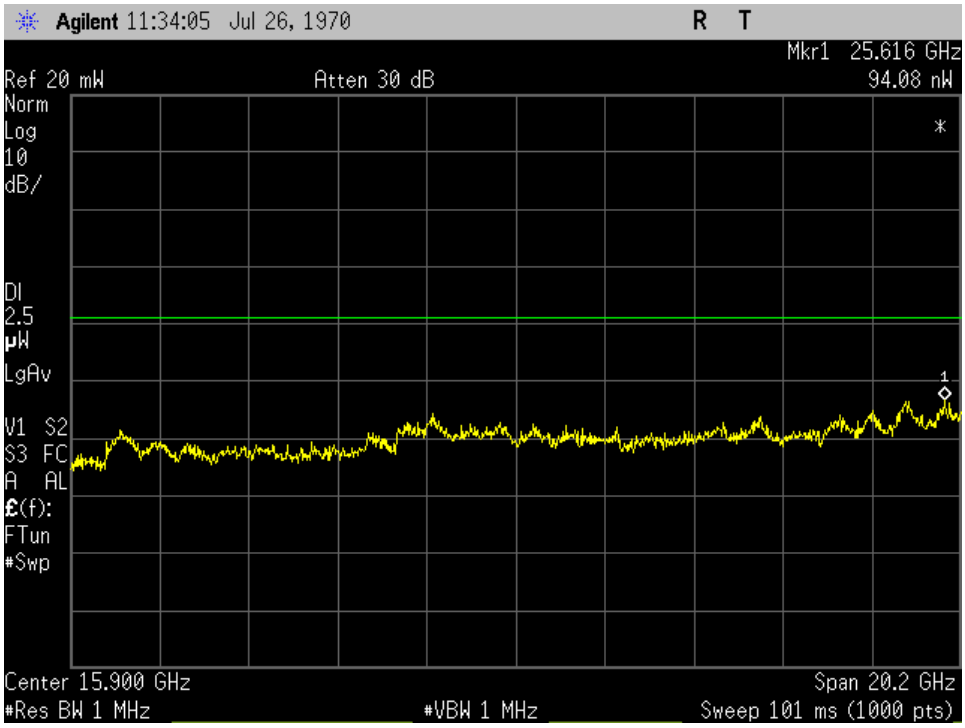


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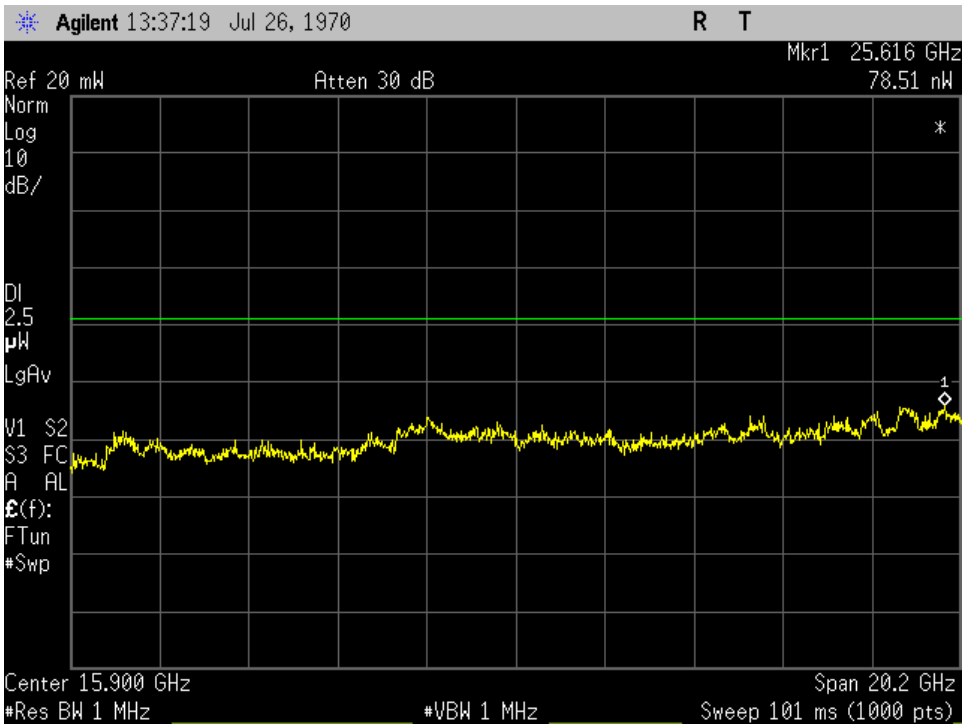


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W56_5600MHz_High Ch_120_20MHz BW_n-mode_Above Carrier_Port 1

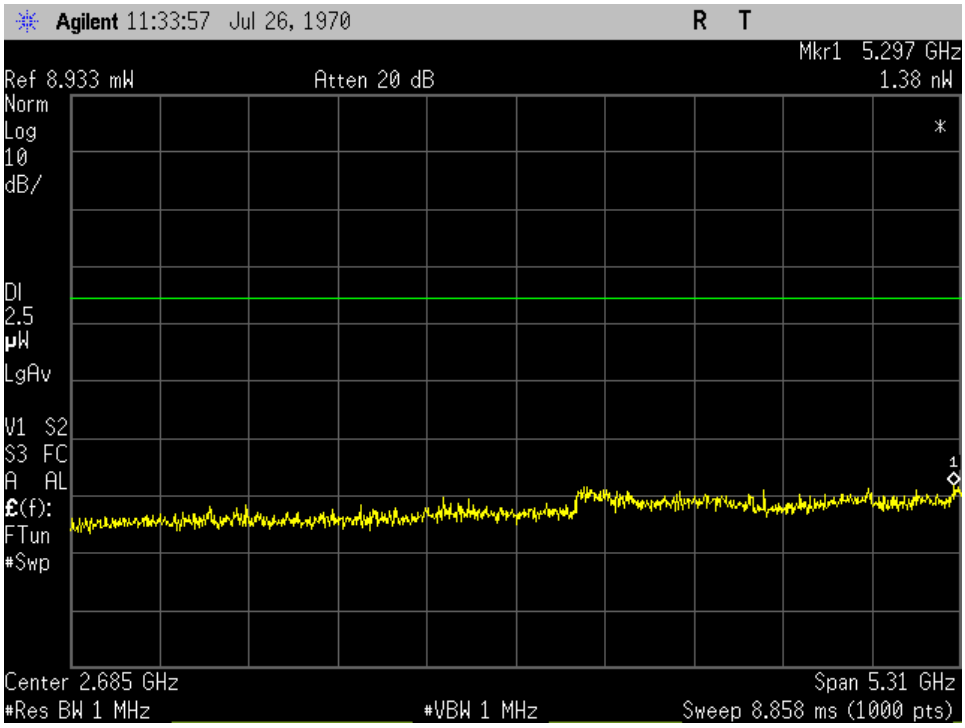


W56_5600MHz_High Ch_120_20MHz BW_n-mode_Above Carrier_Port 2

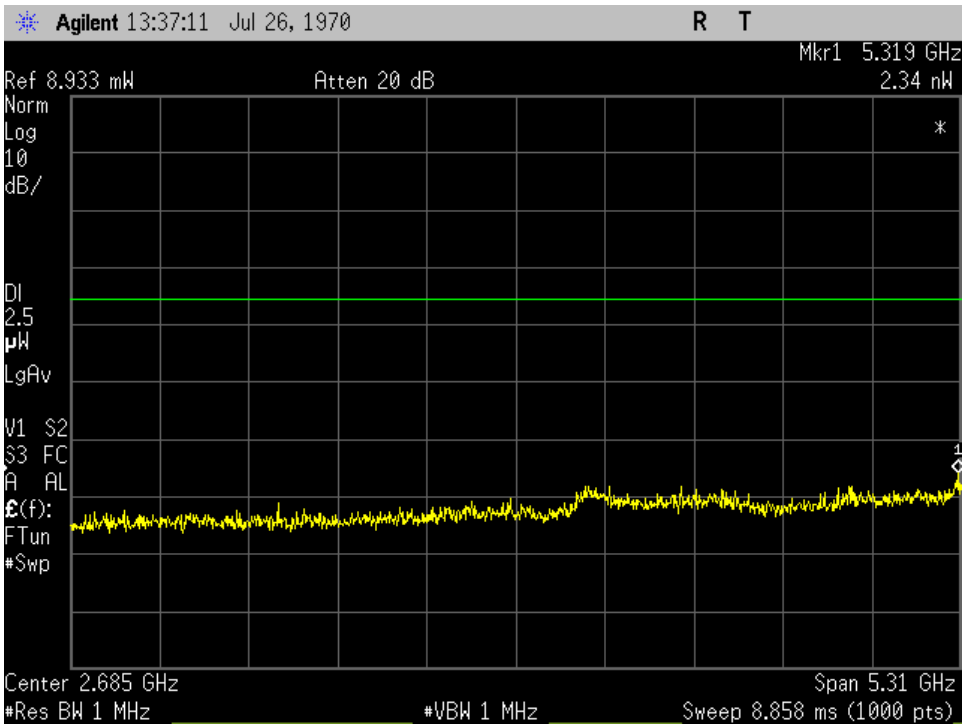


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W56_5600MHz_High Ch_120_20MHz BW_n-mode_Below Carrier_Port 1

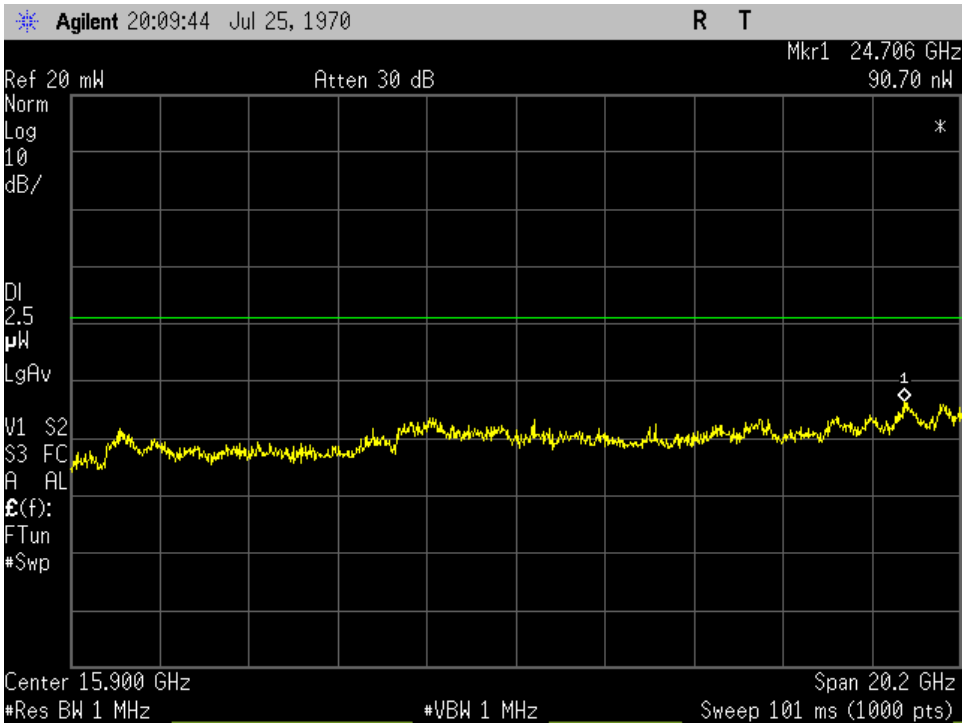


W56_5600MHz_High Ch_120_20MHz BW_n-mode_Below Carrier_Port 2

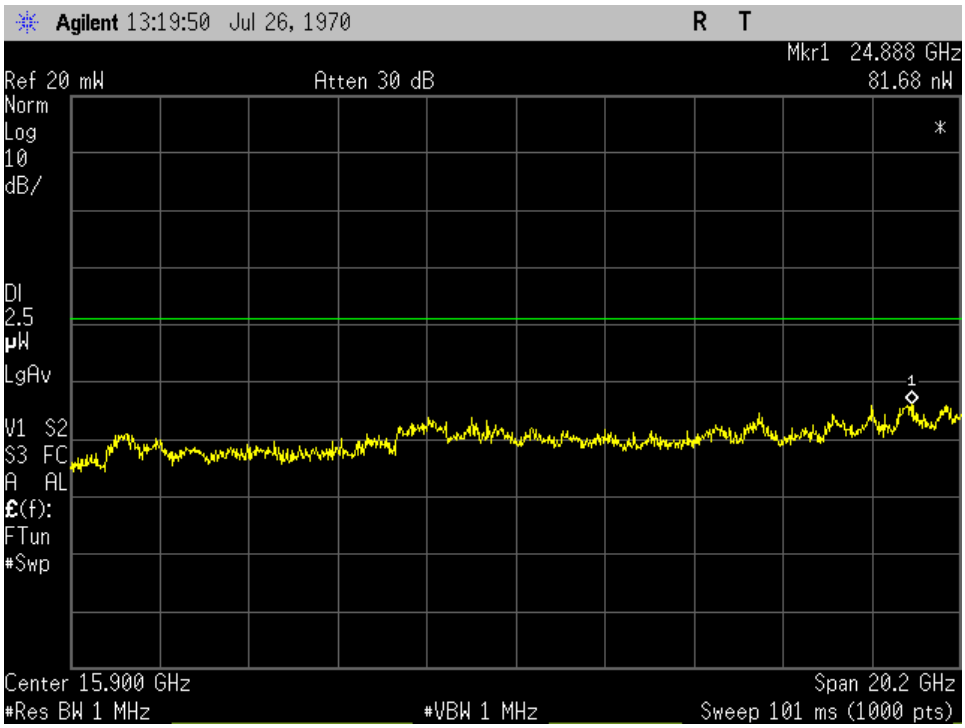


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W56_5600MHz_Mid Ch_120_20MHz BW_a-mode_Above Carrier_Port 1

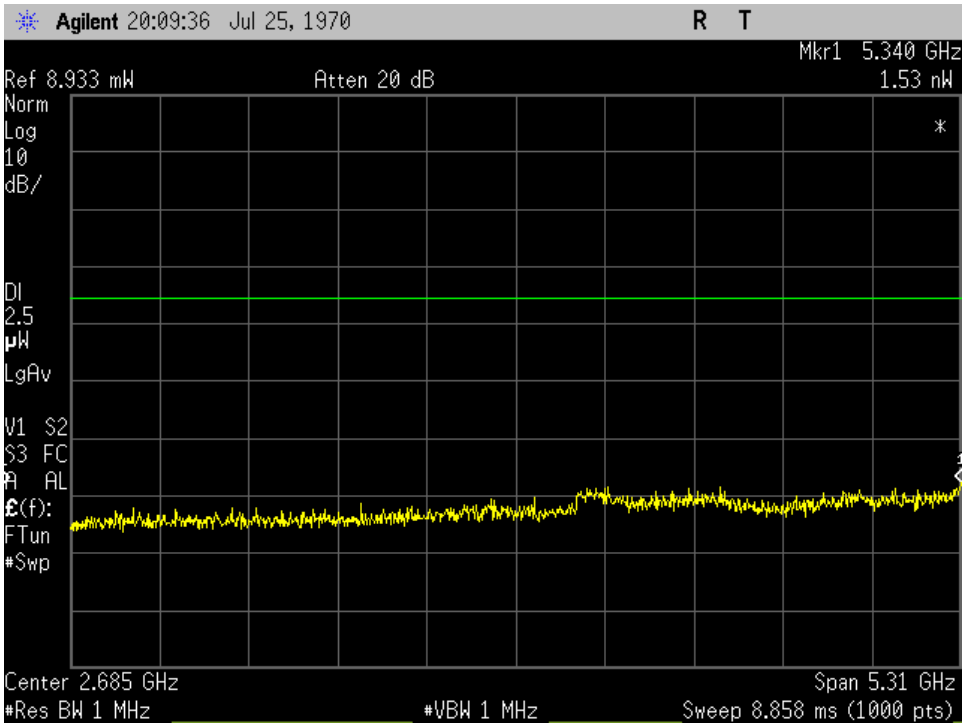


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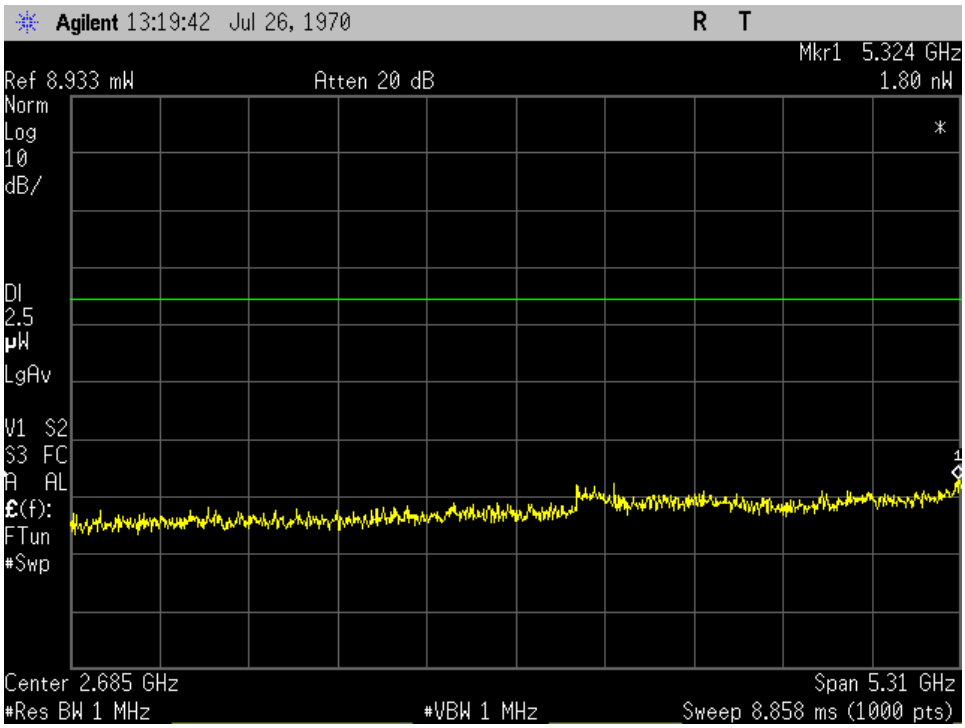


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W56_5600MHz_Mid Ch_120_20MHz BW_a-mode_Below Carrier_Port 1

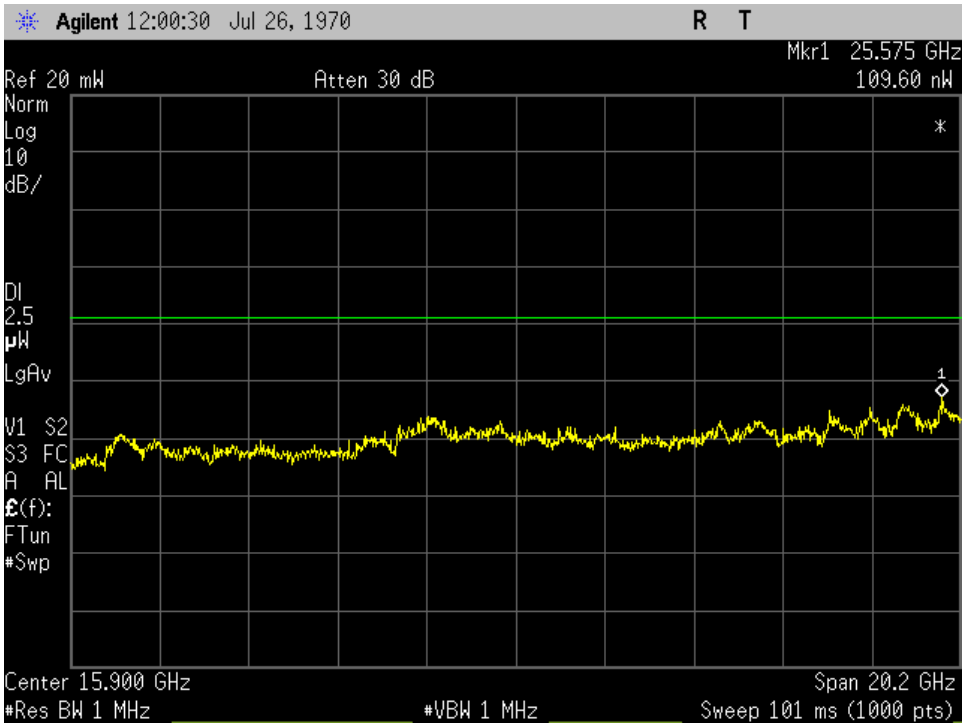


W56_5600MHz_Mid Ch_120_20MHz BW_a-mode_Below Carrier_Port 2

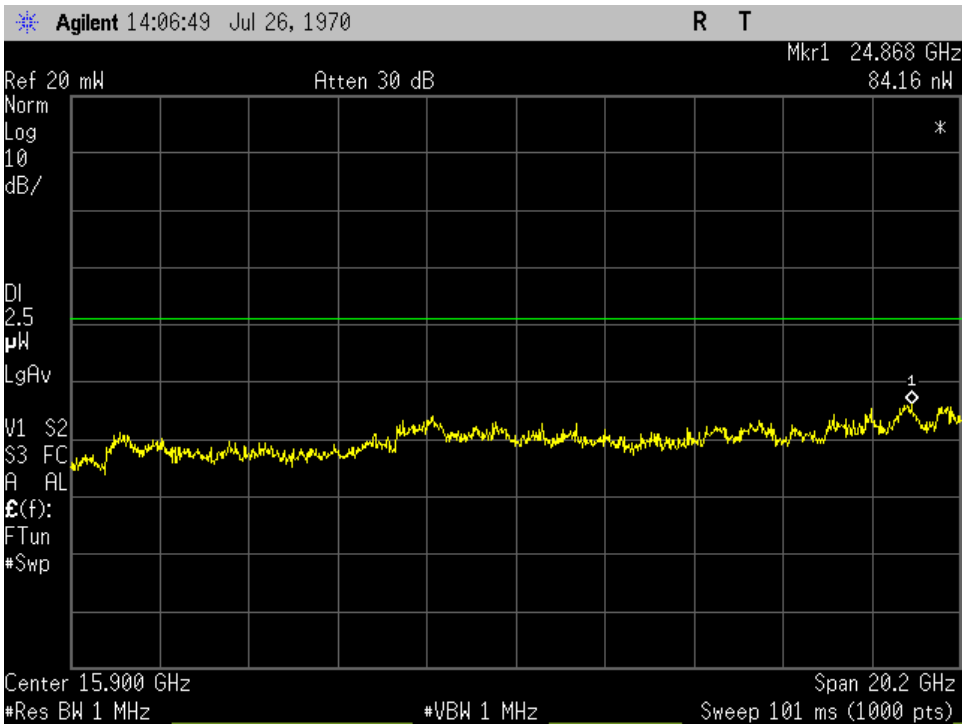


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W56_5600MHz_Mid Ch_120_20MHz BW_ac-mode_Above Carrier_Port 1

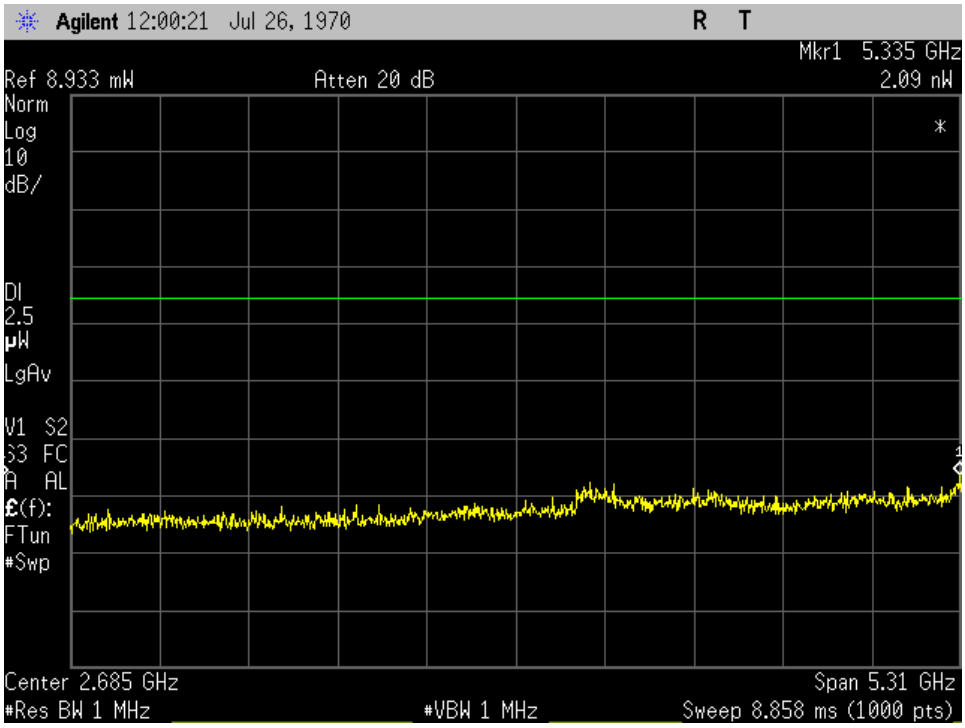


W56_5600MHz_Mid Ch_120_20MHz BW_ac-mode_Above Carrier_Port 2

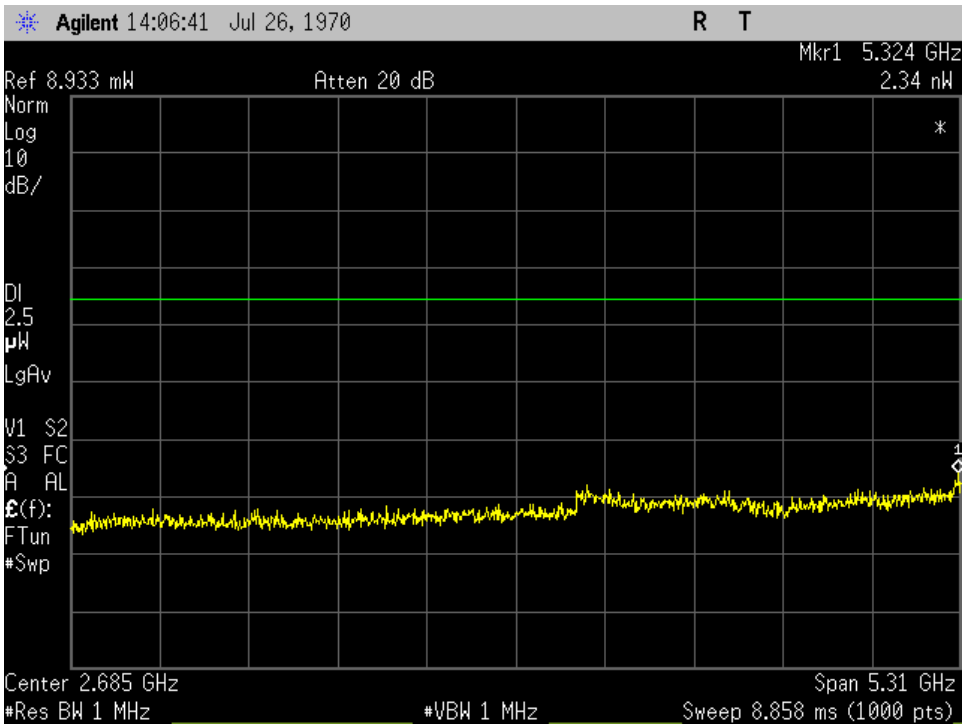


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W56_5600MHz_Mid Ch_120_20MHz BW_ac-mode_Below Carrier_Port 1

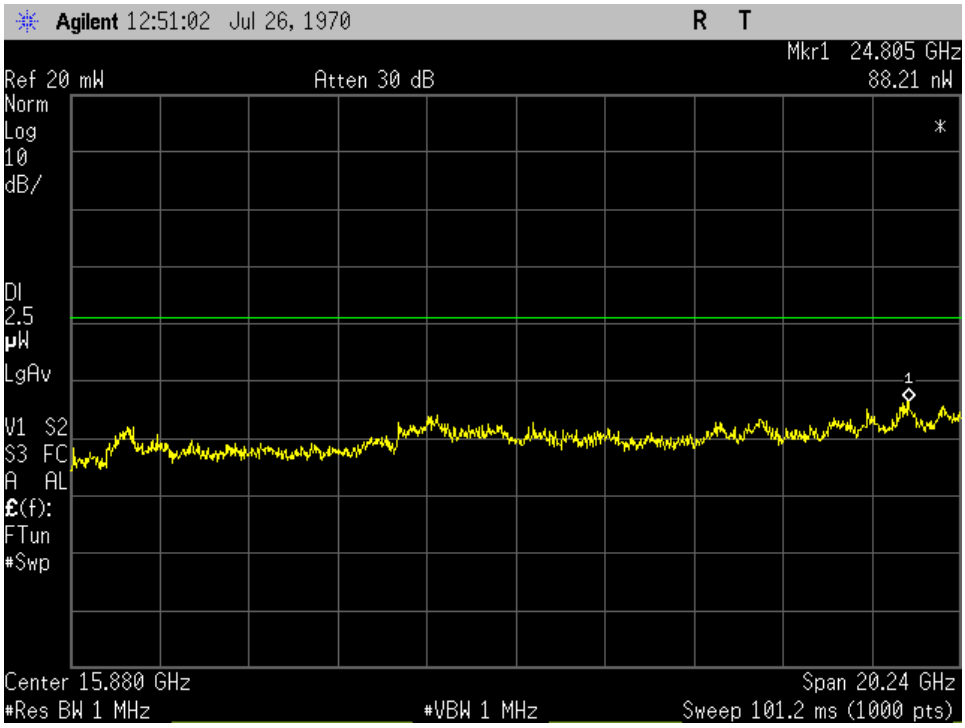


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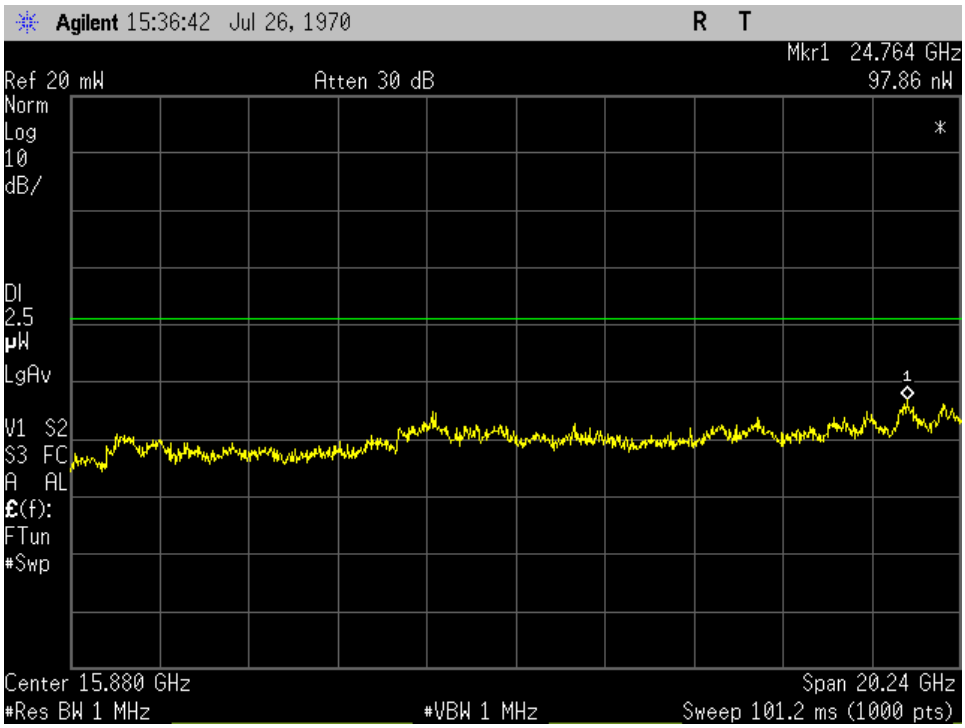


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W56_5610MHz_Mid Ch_122_80MHz BW_ac-mode_Above Carrier_Port 1

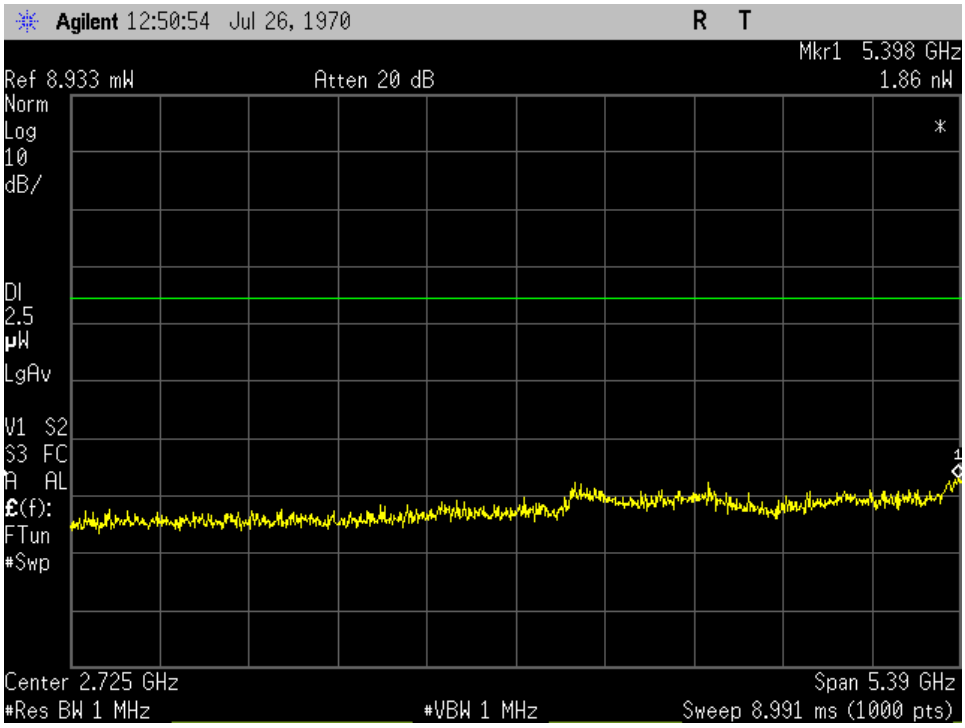


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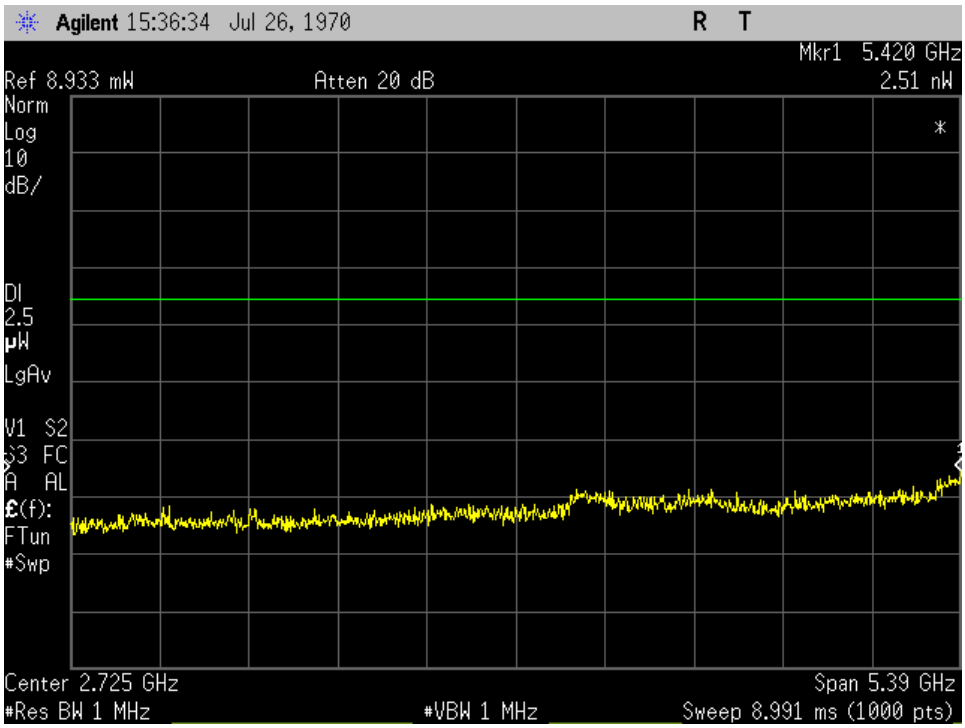


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W56_5610MHz_Mid Ch_122_80MHz BW_ac-mode_Below Carrier_Port 1

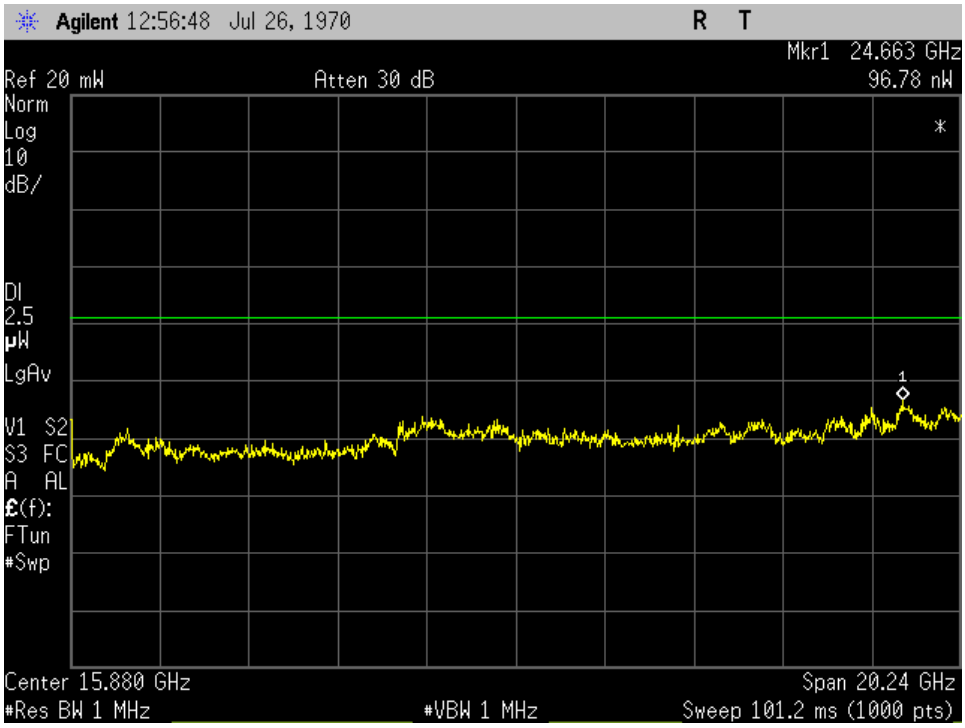


W56_5610MHz_Mid Ch_122_80MHz BW_ac-mode_Below Carrier_Port 2

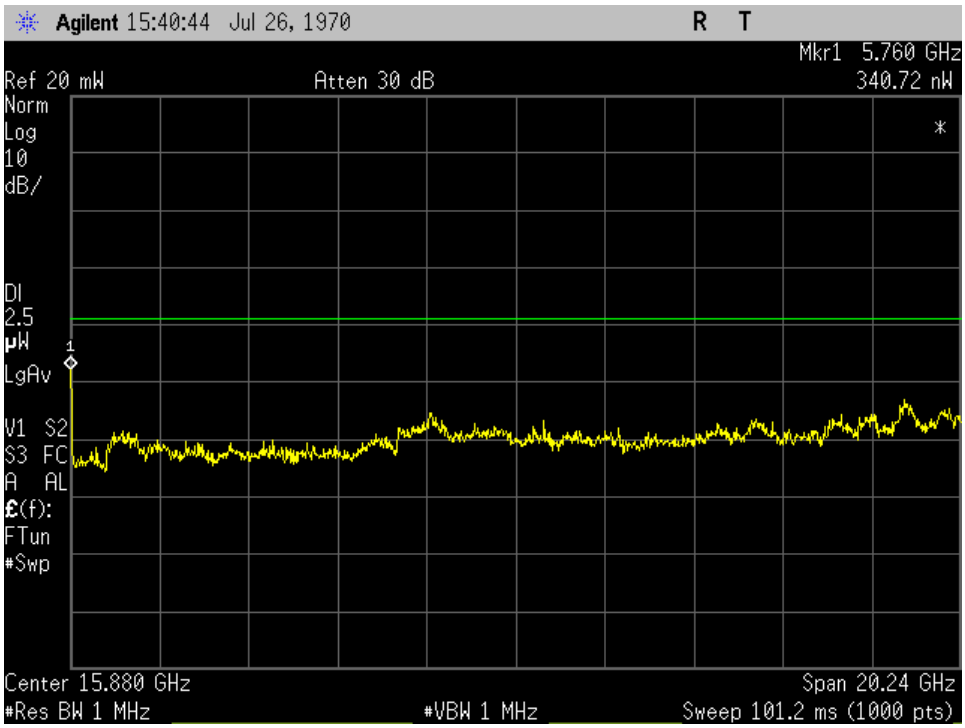


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W56_5690MHz_High Ch_138_80MHz BW_ac-mode_Above Carrier_Port 1

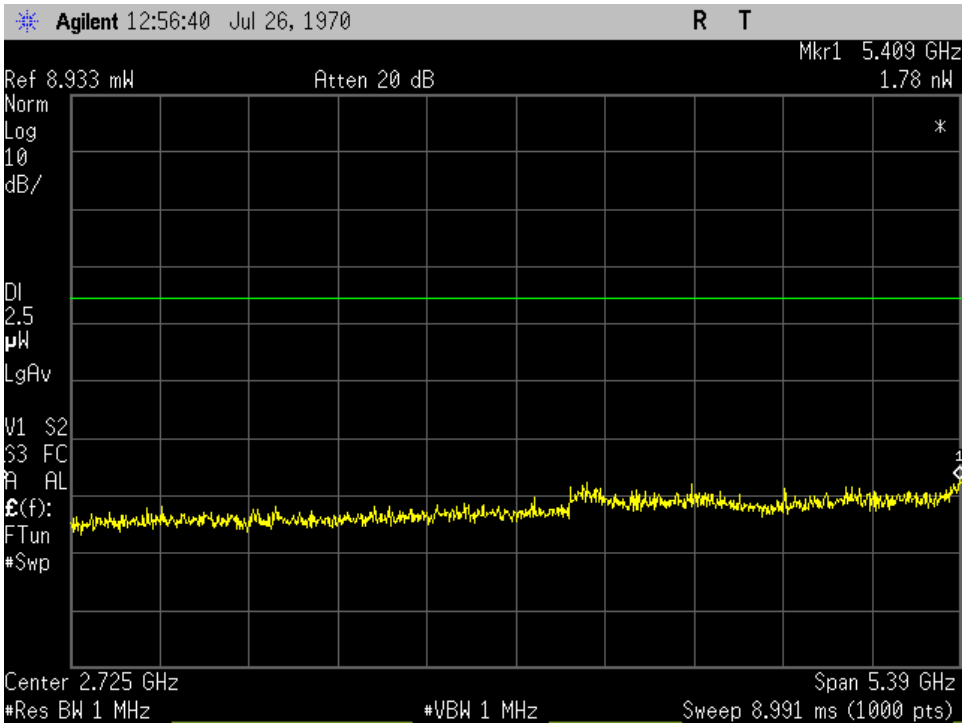


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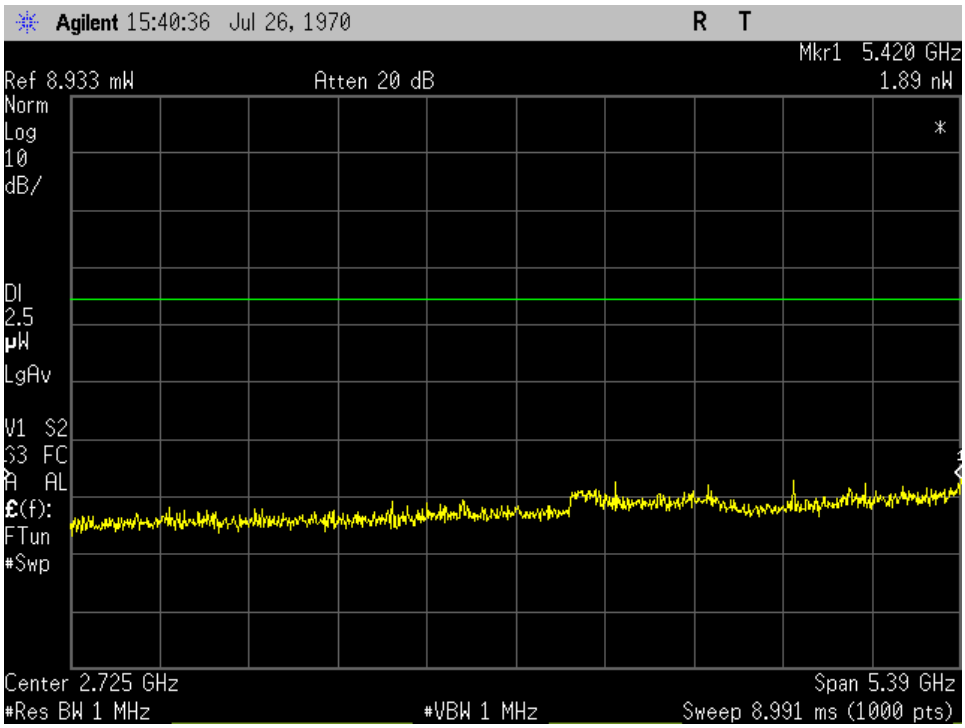


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W56_5690MHz_High Ch_138_80MHz BW_ac-mode_Below Carrier_Port 1

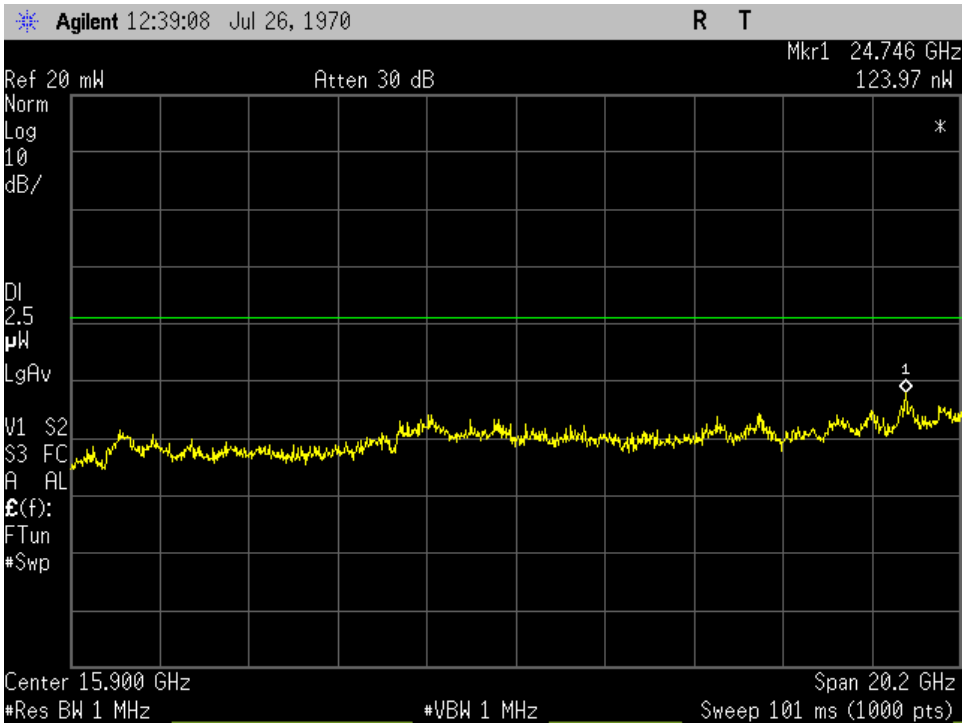


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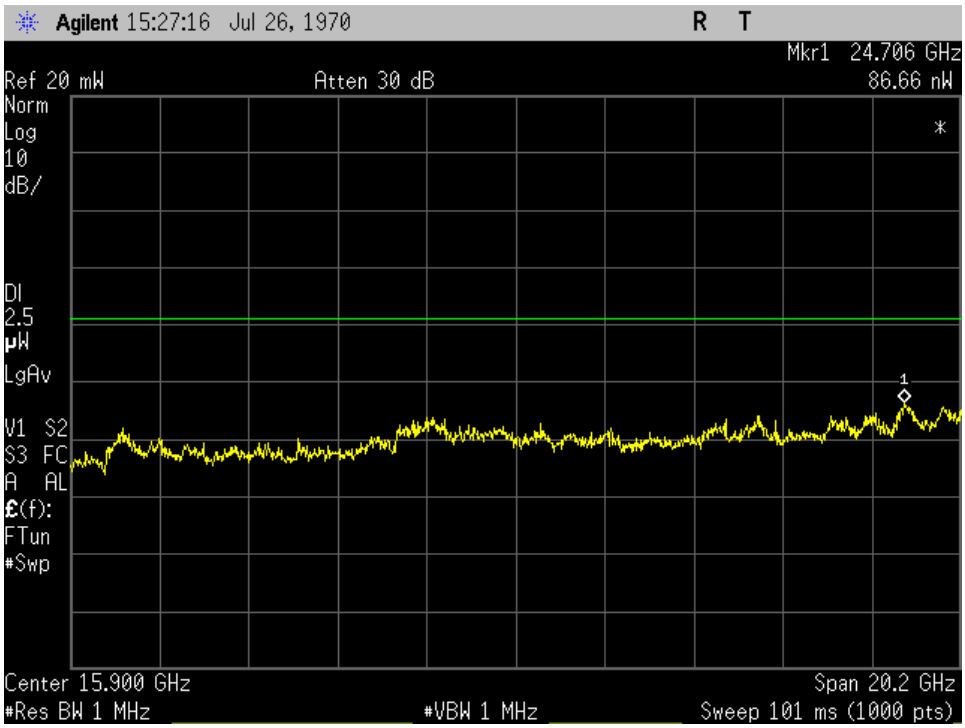


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W56_5710MHz_High Ch_142_40MHz BW_ac-mode_Above Carrier_Port 1

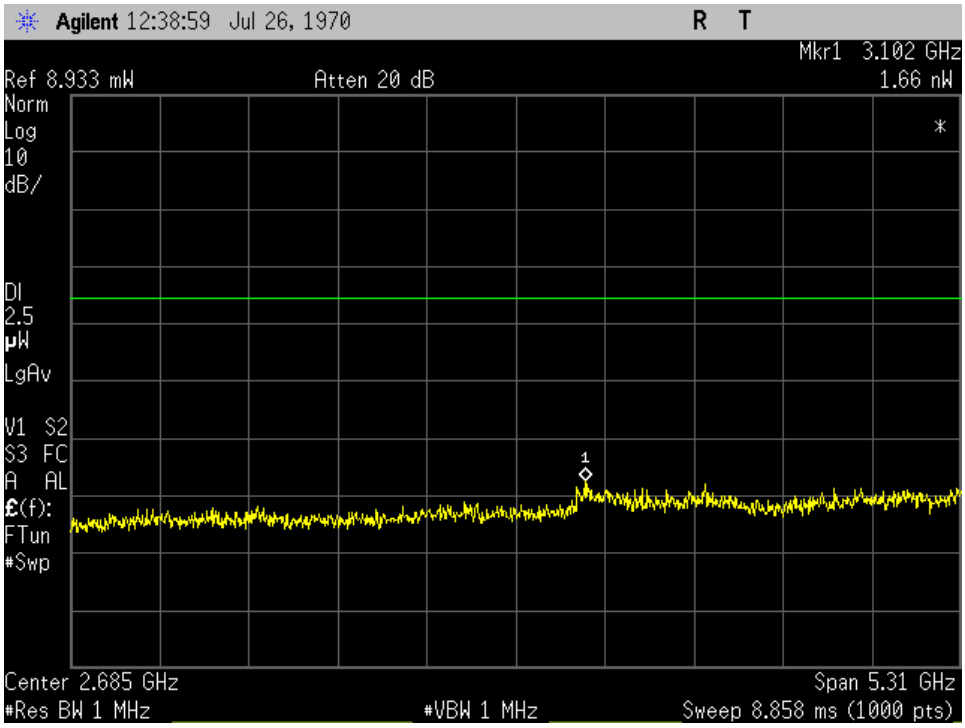


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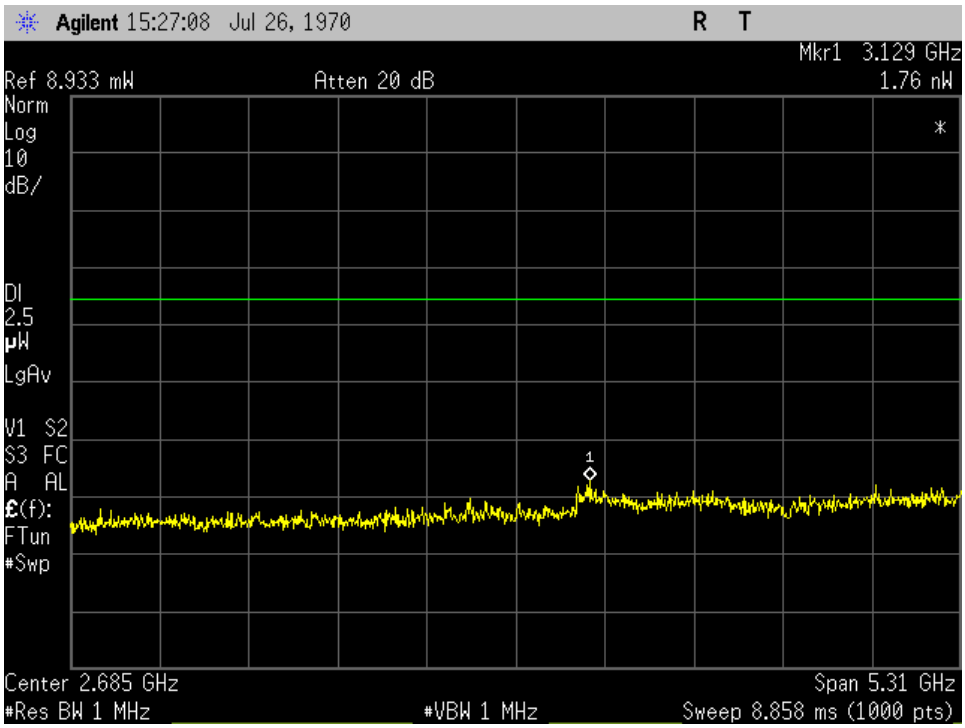


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W56_5710MHz_High Ch_142_40MHz BW_ac-mode_Below Carrier_Port 1

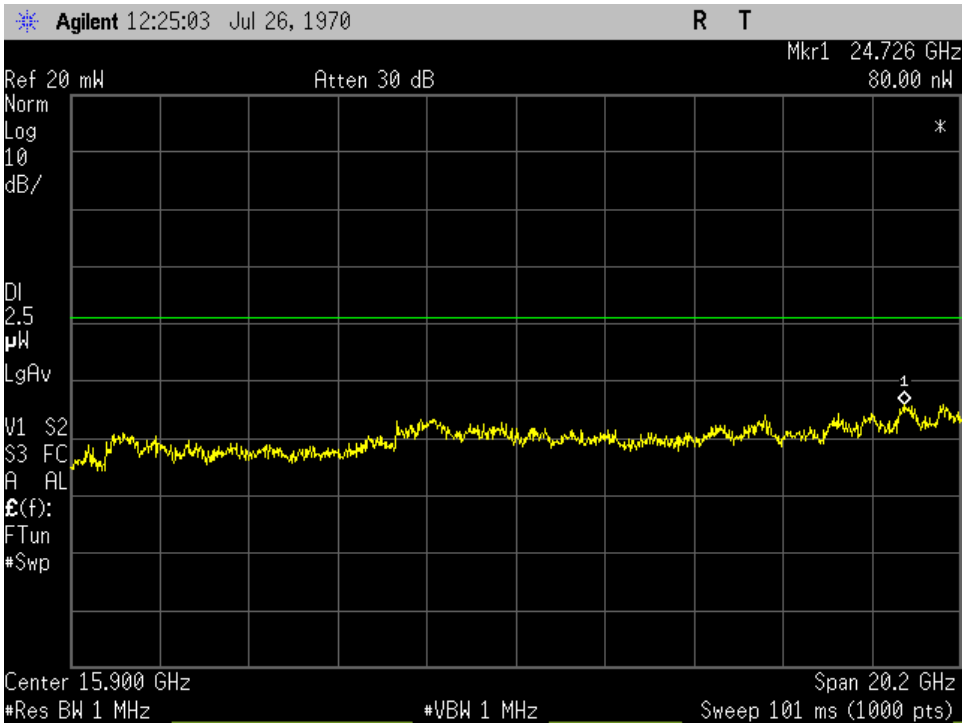


W56_5710MHz_High Ch_142_40MHz BW_ac-mode_Below Carrier_Port 2

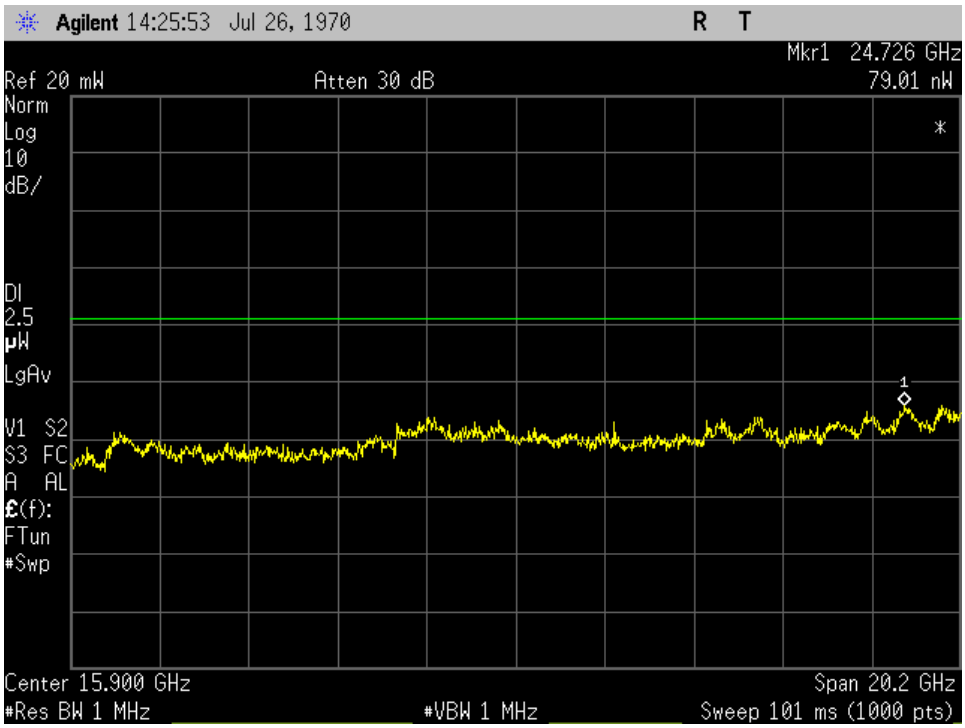


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W56_5710MHz_Low Ch_142_40MHz BW_n-mode_Above Carrier_Port 1

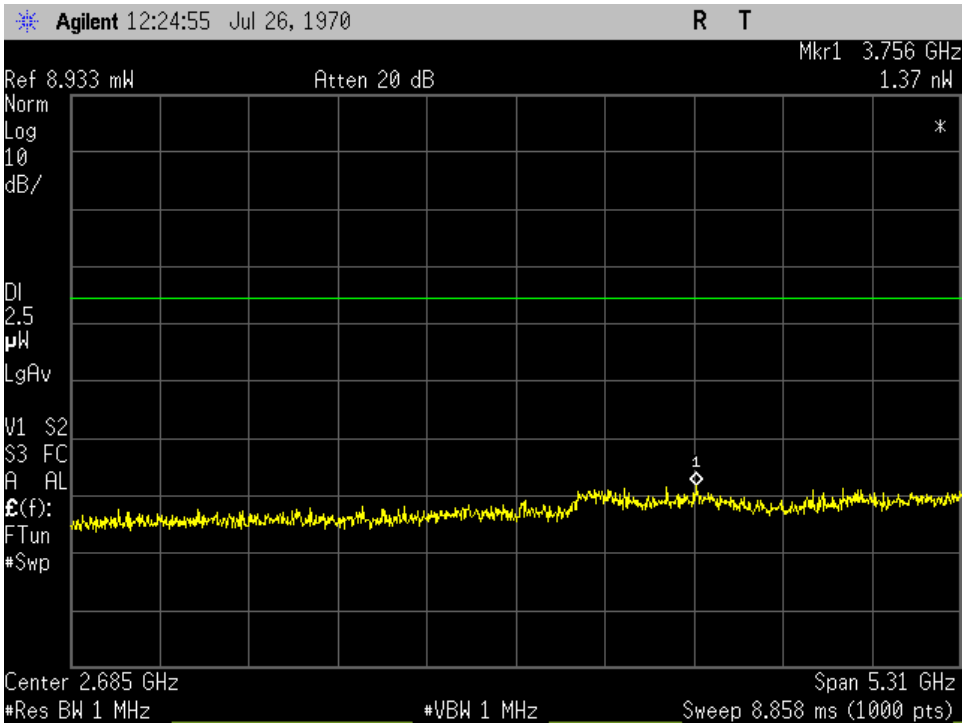


W56_5710MHz_Low Ch_142_40MHz BW_n-mode_Above Carrier_Port 2

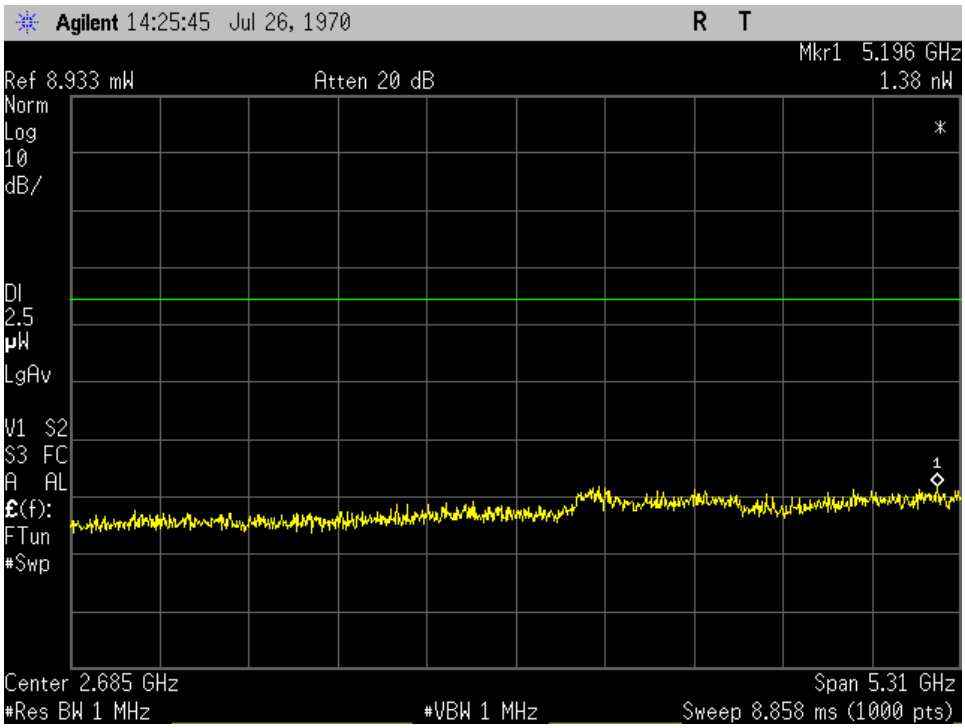


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W56_5710MHz_Low Ch_142_40MHz BW_n-mode_Below Carrier_Port 1

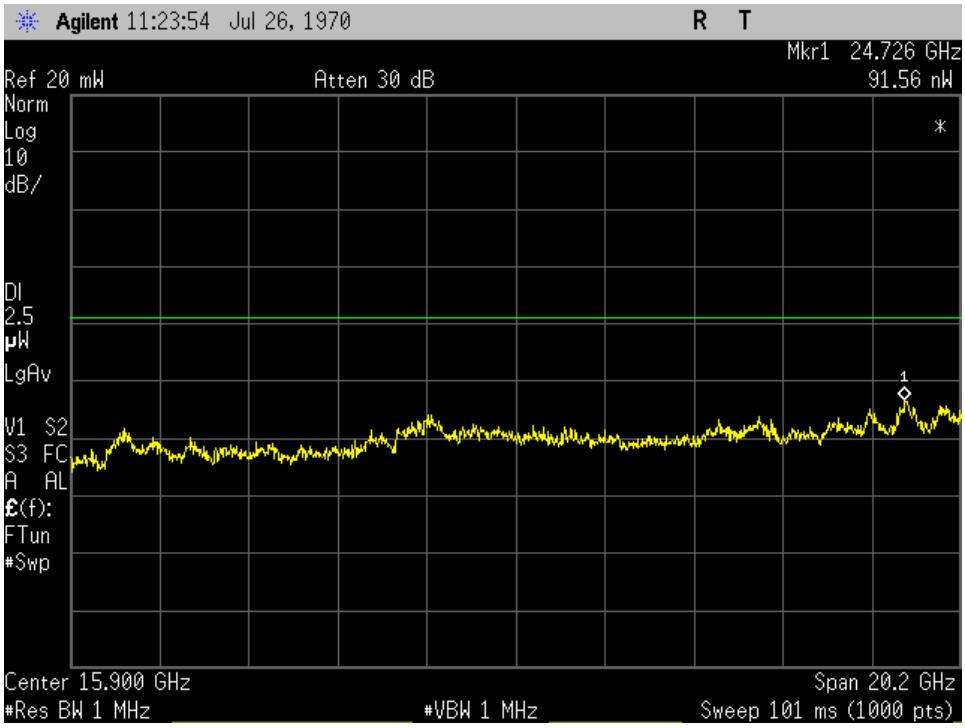


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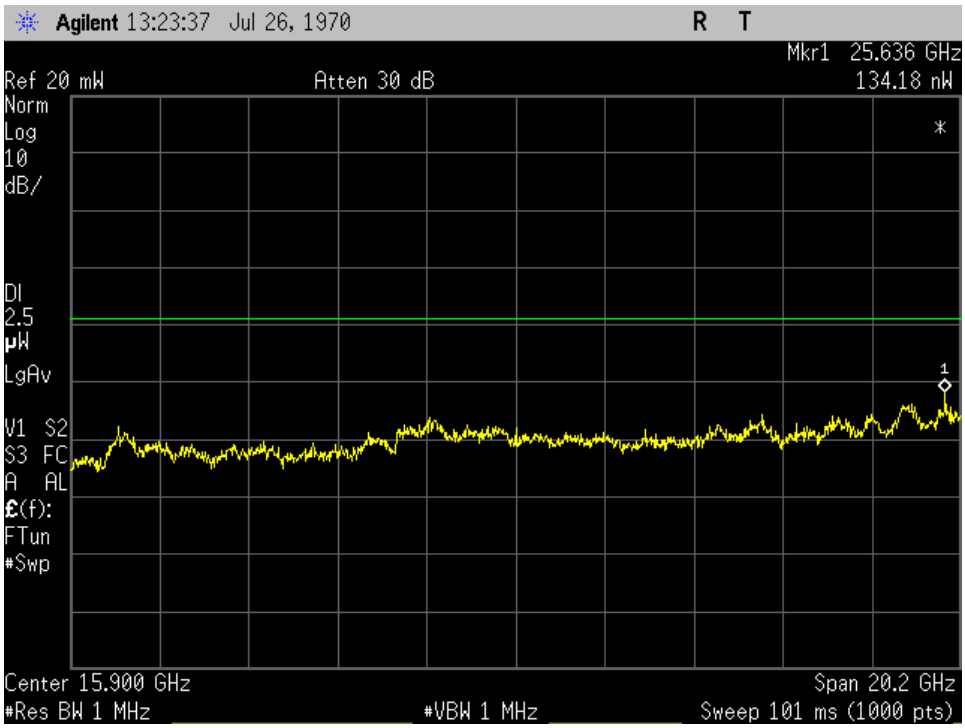


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W56_5720MHz_High Ch_144_20MHz BW_a-mode_Above Carrier_Port 1

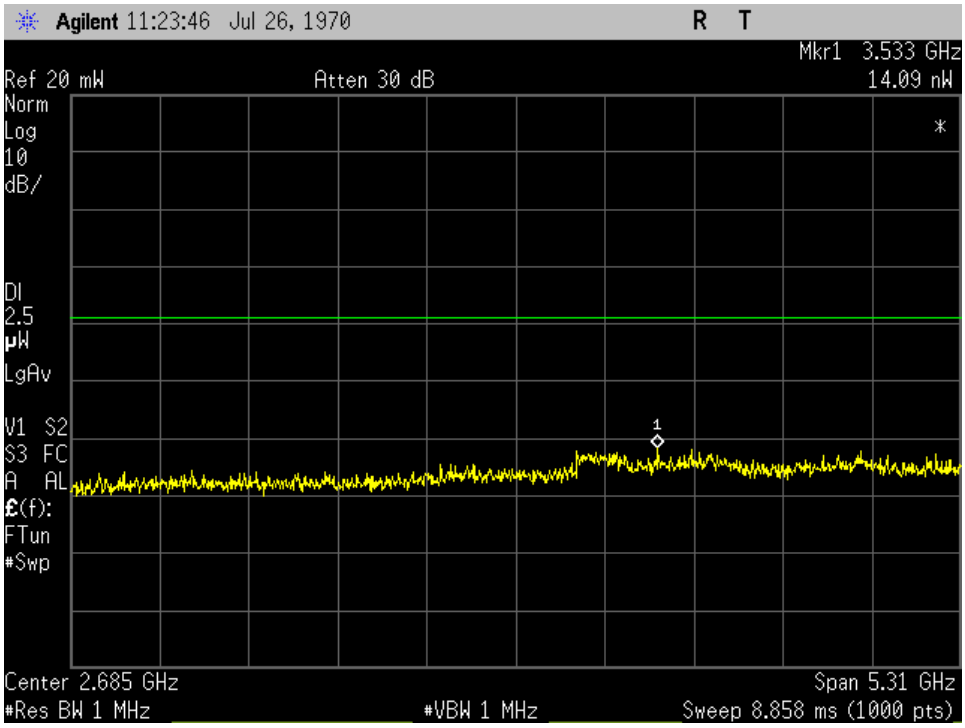


W56_5720MHz_High Ch_144_20MHz BW_a-mode_Above Carrier_Port 2

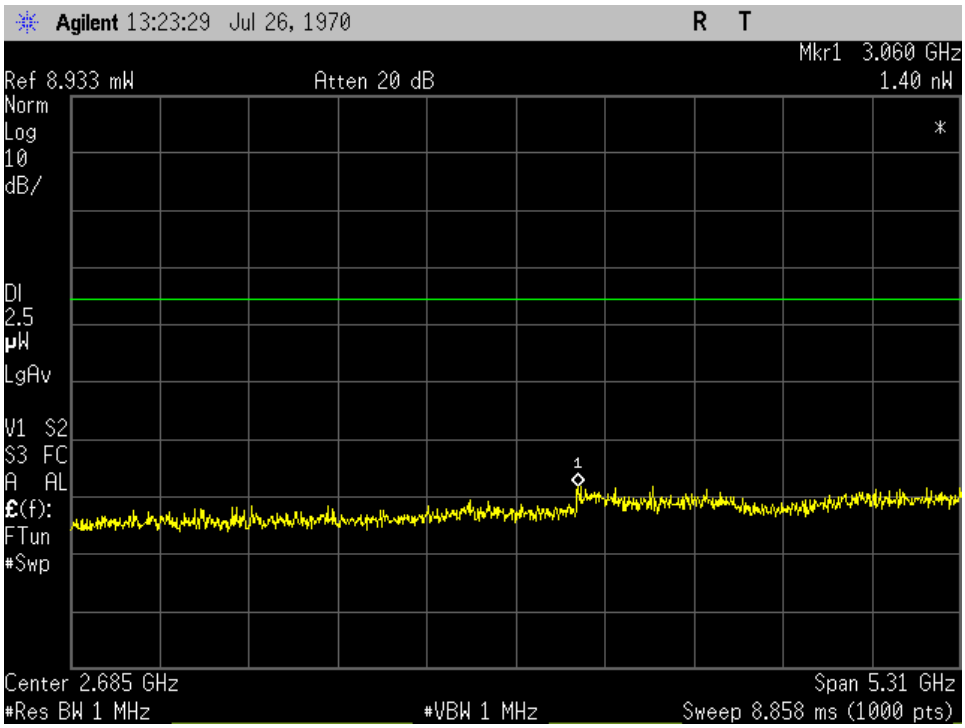


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W56_5720MHz_High Ch_144_20MHz BW_a-mode_Below Carrier_Port 1

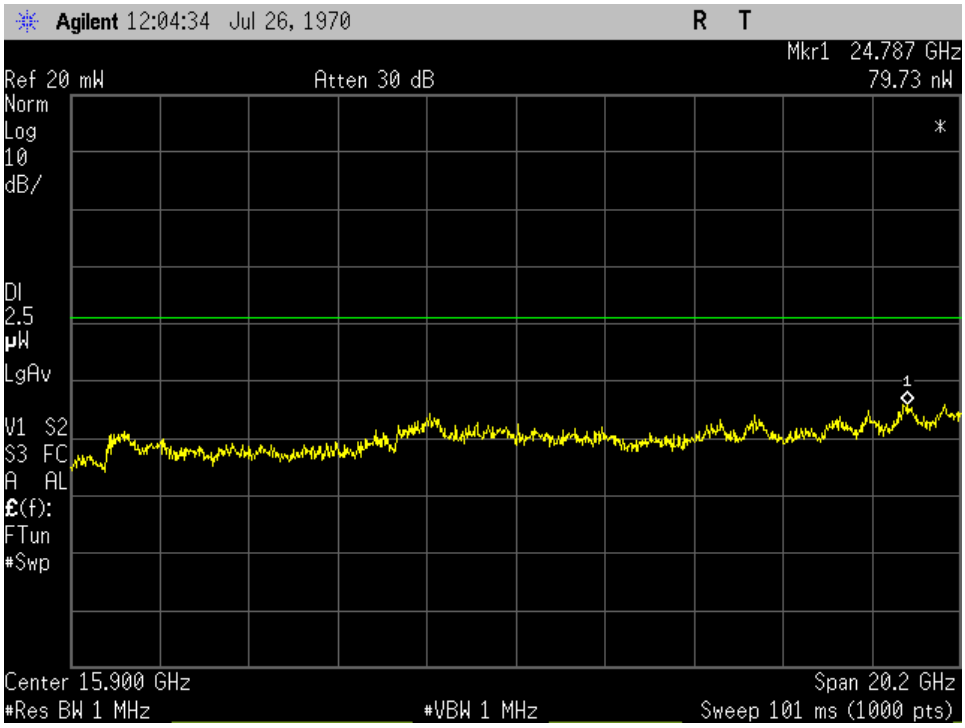


W56_5720MHz_High Ch_144_20MHz BW_a-mode_Below Carrier_Port 2

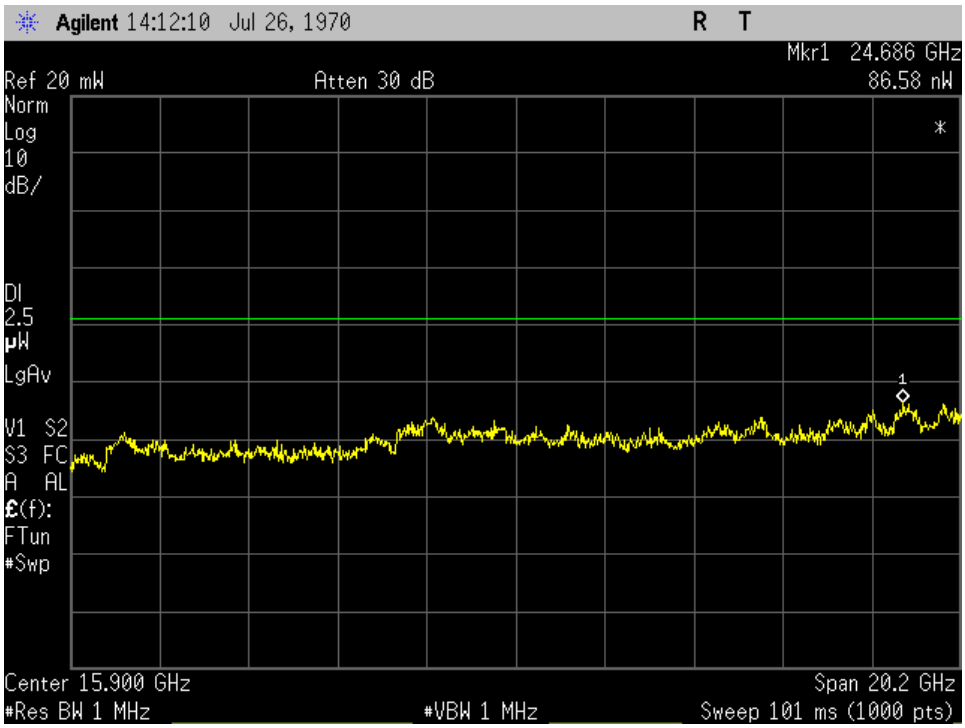


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W56_5720MHz_High Ch_144_20MHz BW_ac-mode_Above Carrier_Port 1

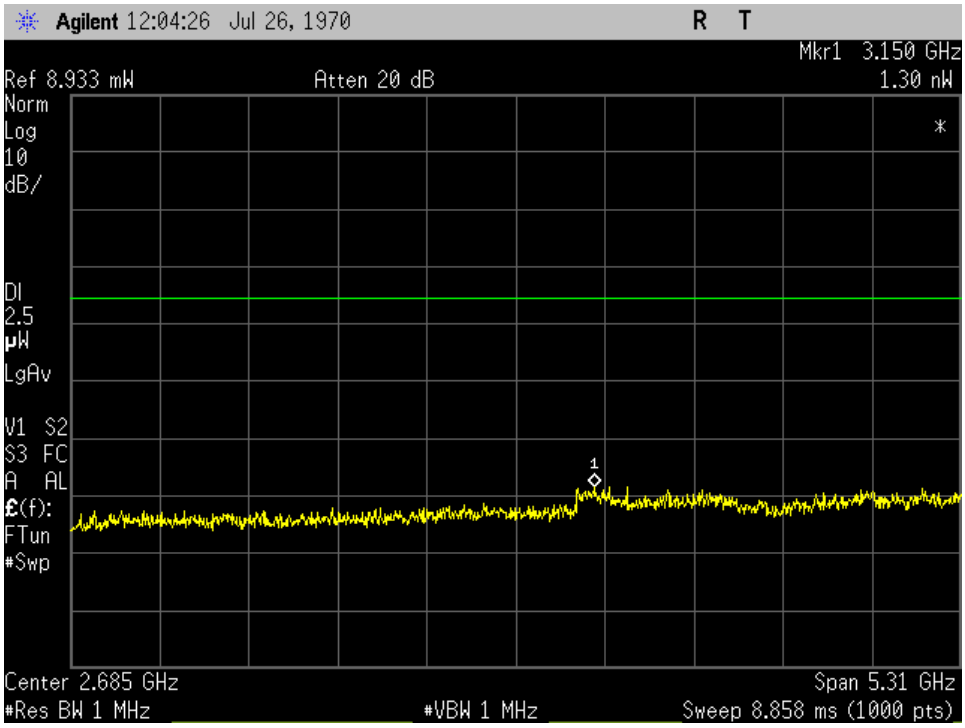


W56_5720MHz_High Ch_144_20MHz BW_ac-mode_Above Carrier_Port 2

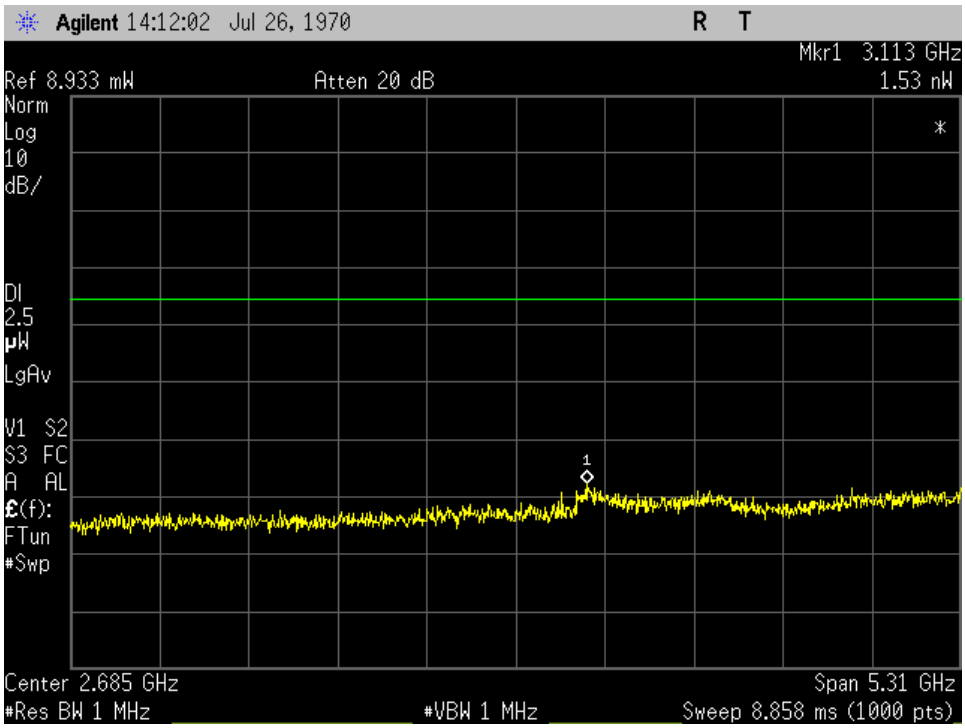


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W56_5720MHz_High Ch_144_20MHz BW_ac-mode_Below Carrier_Port 1

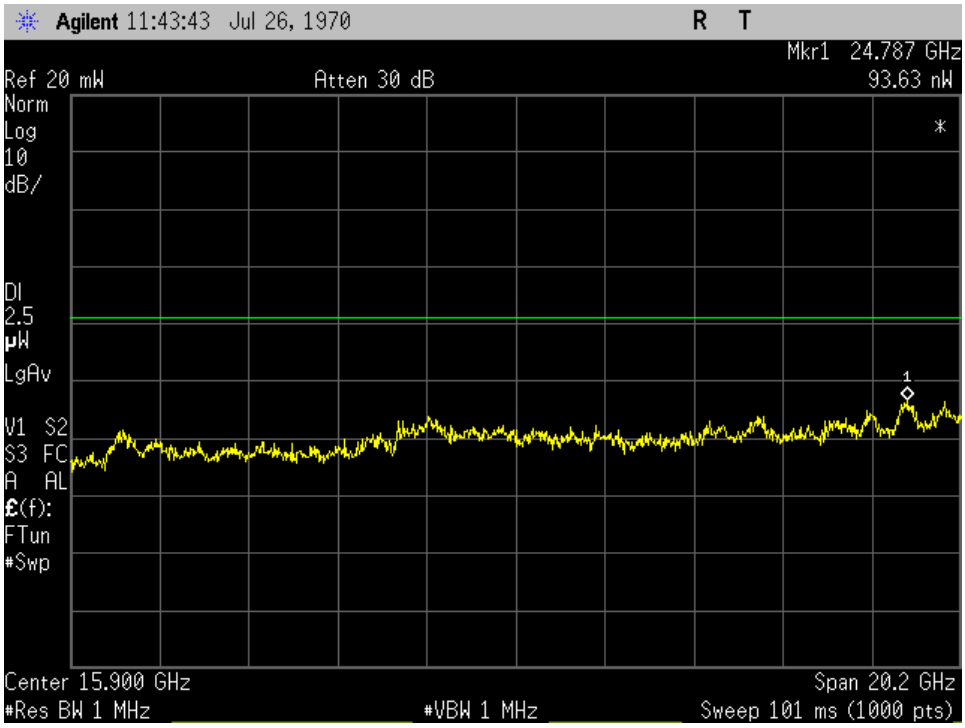


W56_5720MHz_High Ch_144_20MHz BW_ac-mode_Below Carrier_Port 2

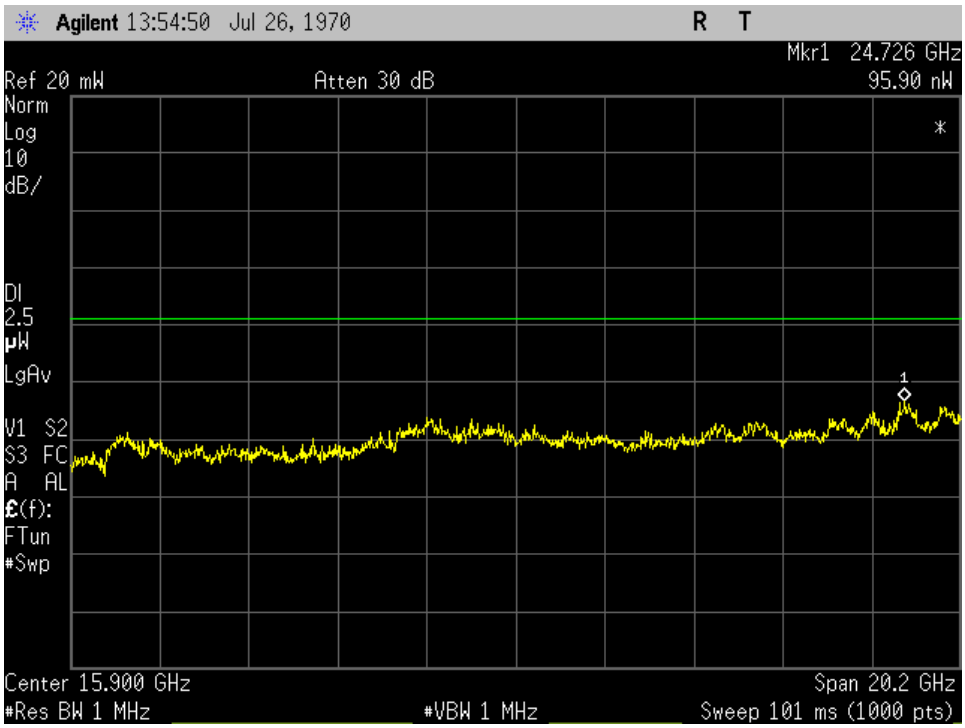


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W56_5720MHz_Low Ch_144_20MHz BW_n-mode_Above Carrier_Port 1

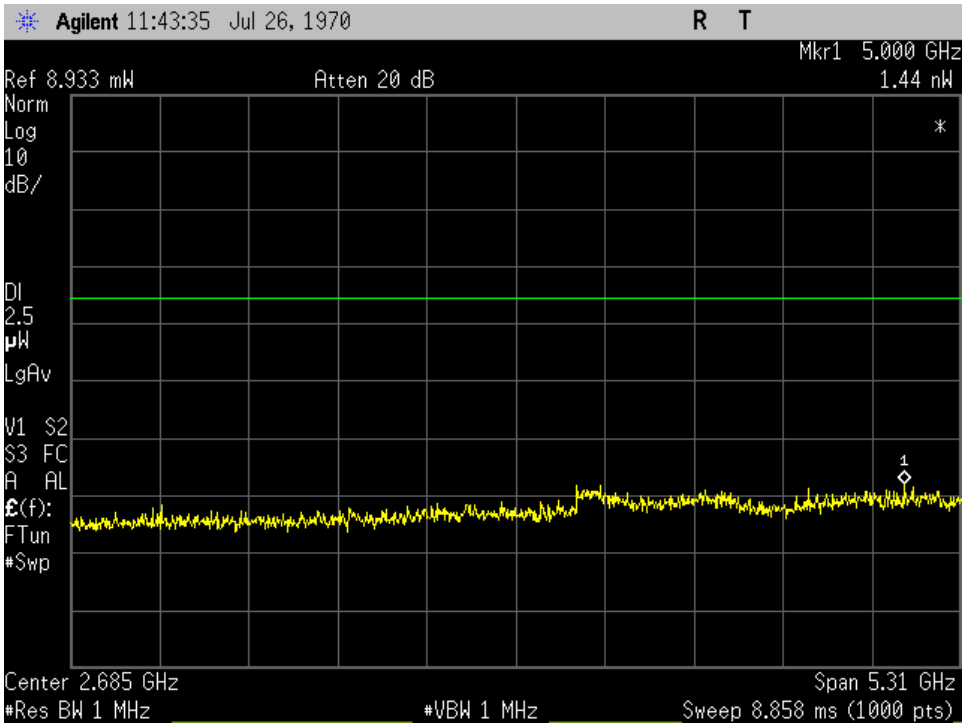


W56_5720MHz_Low Ch_144_20MHz BW_n-mode_Above Carrier_Port 2

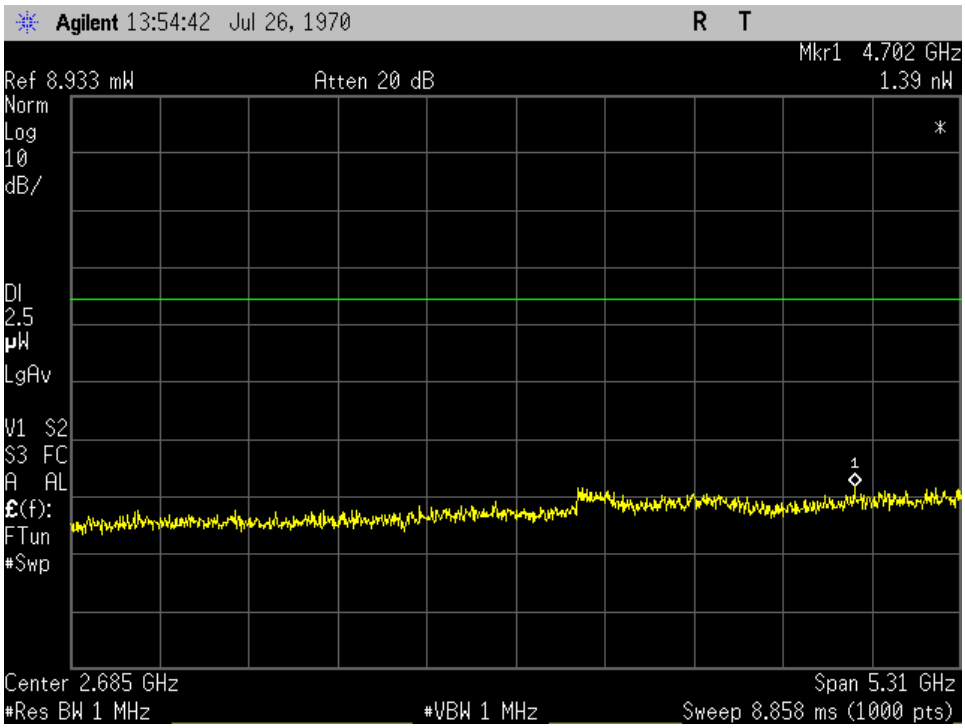


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W56_5720MHz_Low Ch_144_20MHz BW_n-mode_Below Carrier_Port 1

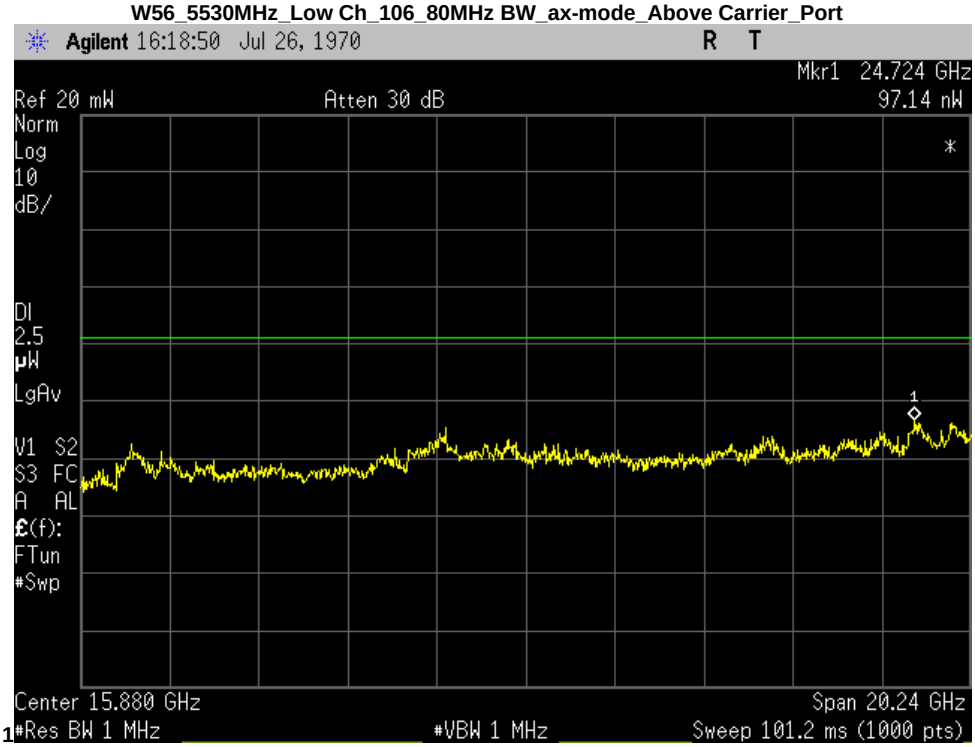


W56_5720MHz_Low Ch_144_20MHz BW_n-mode_Below Carrier_Port 2

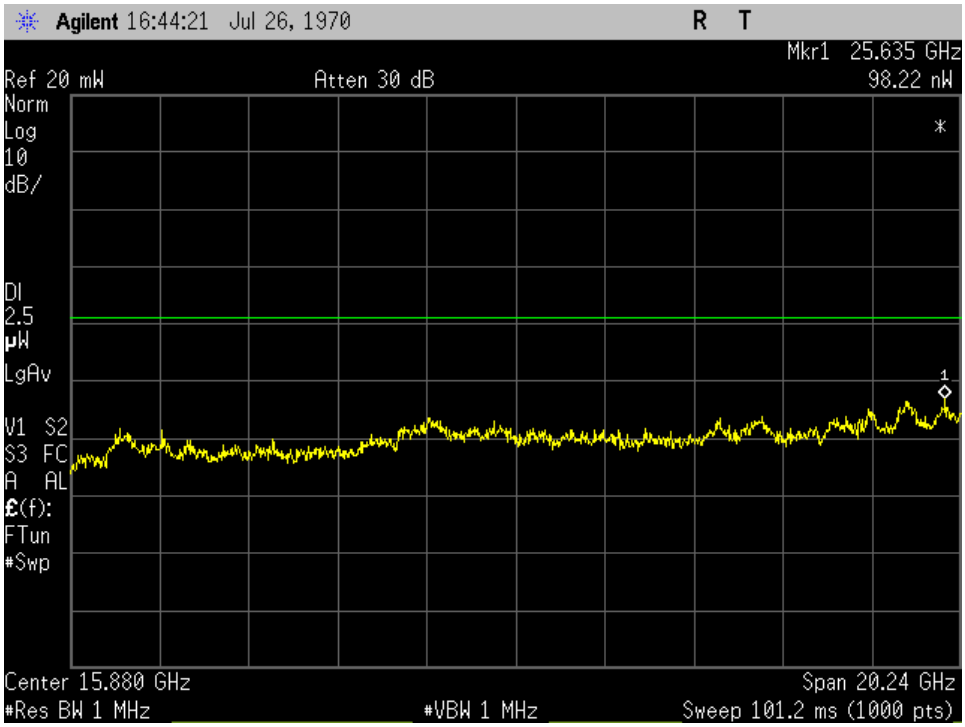


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W56_5530MHz_Low Ch_106_80MHz BW_ax-mode_Above Carrier_Port

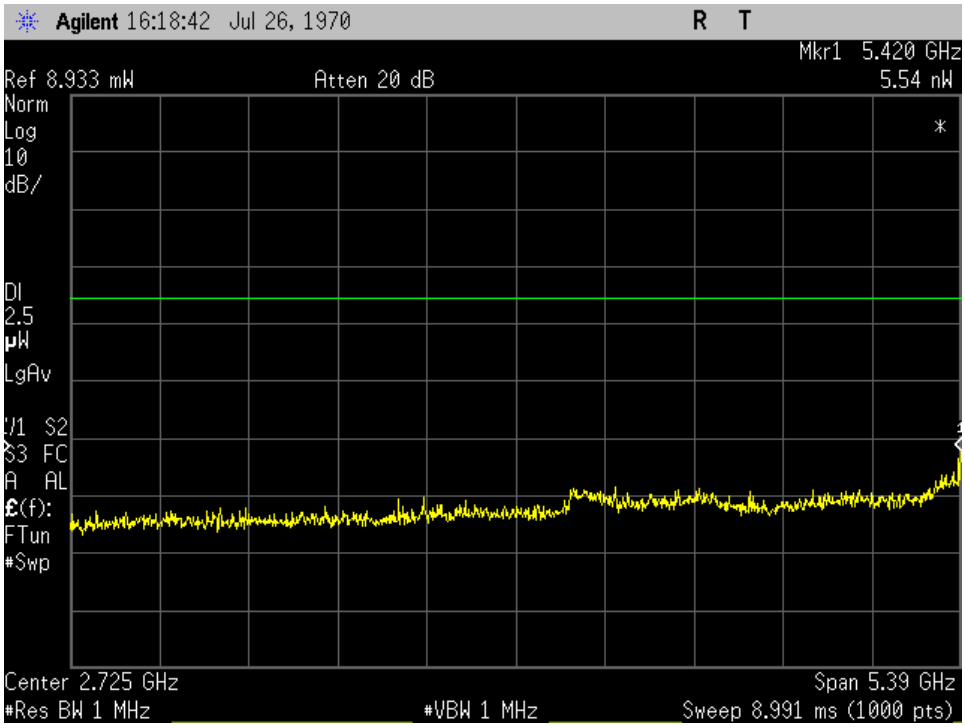


W56_5530MHz_Low Ch_106_80MHz BW_ax-mode_Above Carrier_Port 2

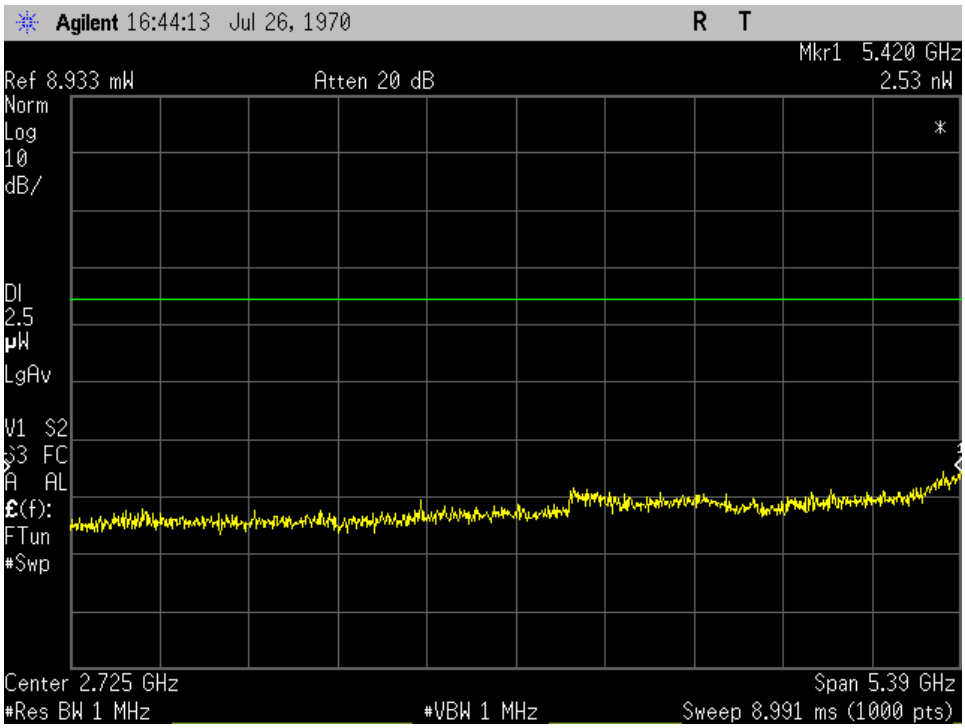


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W56_5530MHz_Low Ch_106_80MHz BW_ax-mode_Below Carrier_Port 1

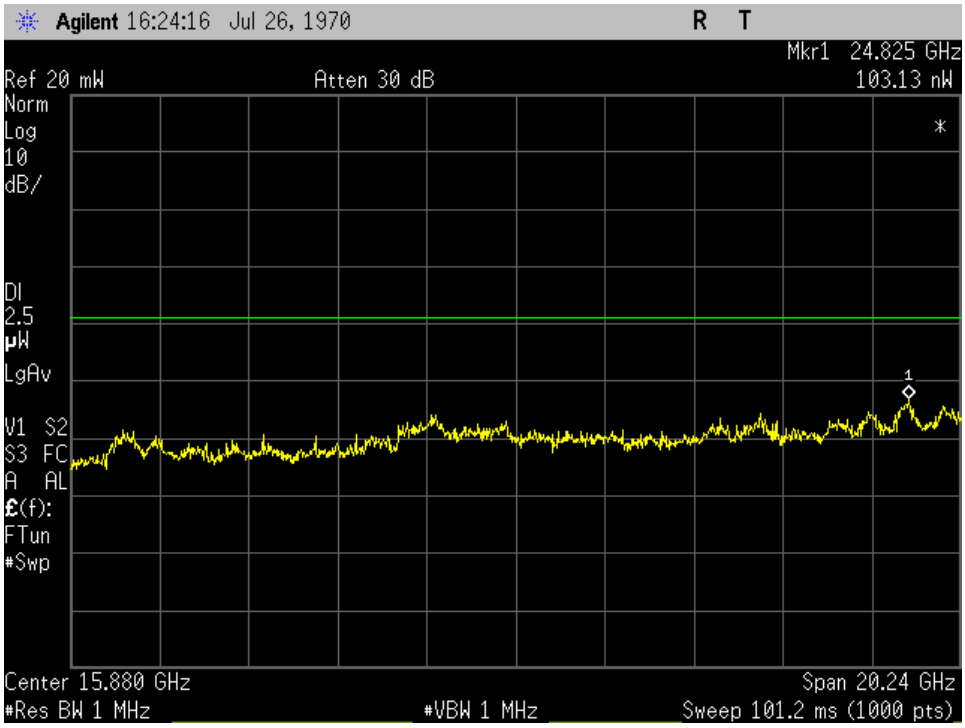


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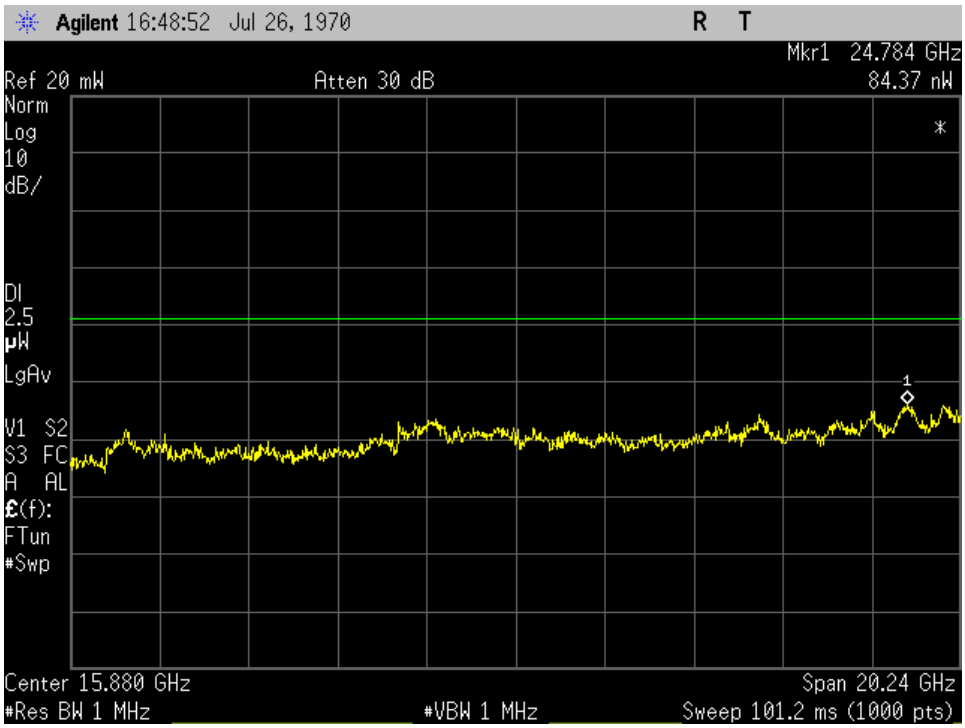


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W56_5610MHz_Mid Ch_122_80MHz BW_ax-mode_Above Carrier_Port 1

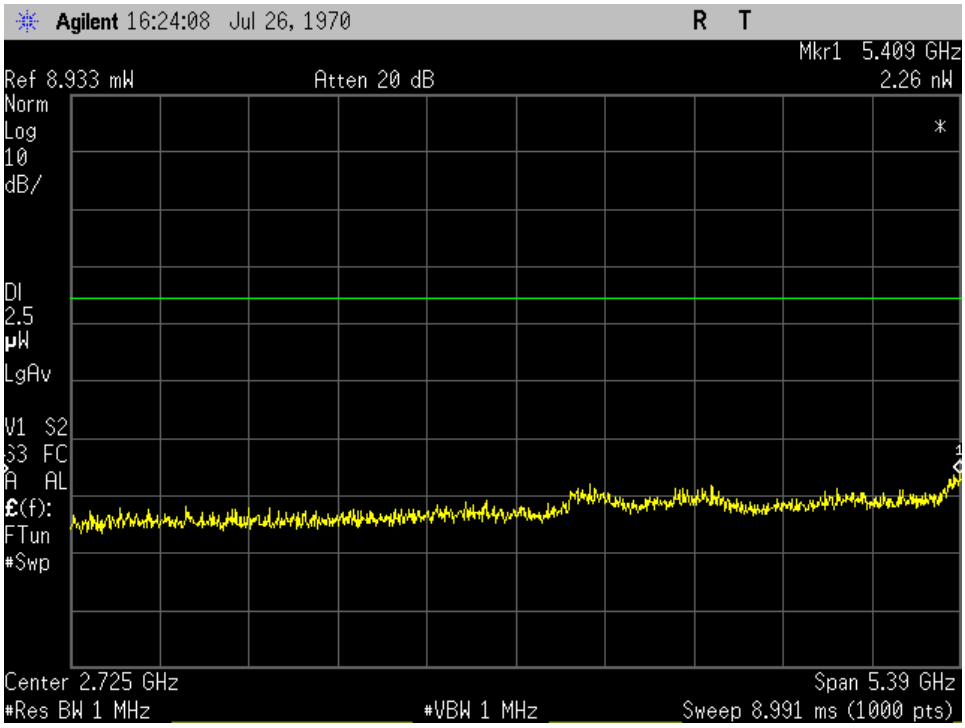


W56_5610MHz_Mid Ch_122_80MHz BW_ax-mode_Above Carrier_Port 2

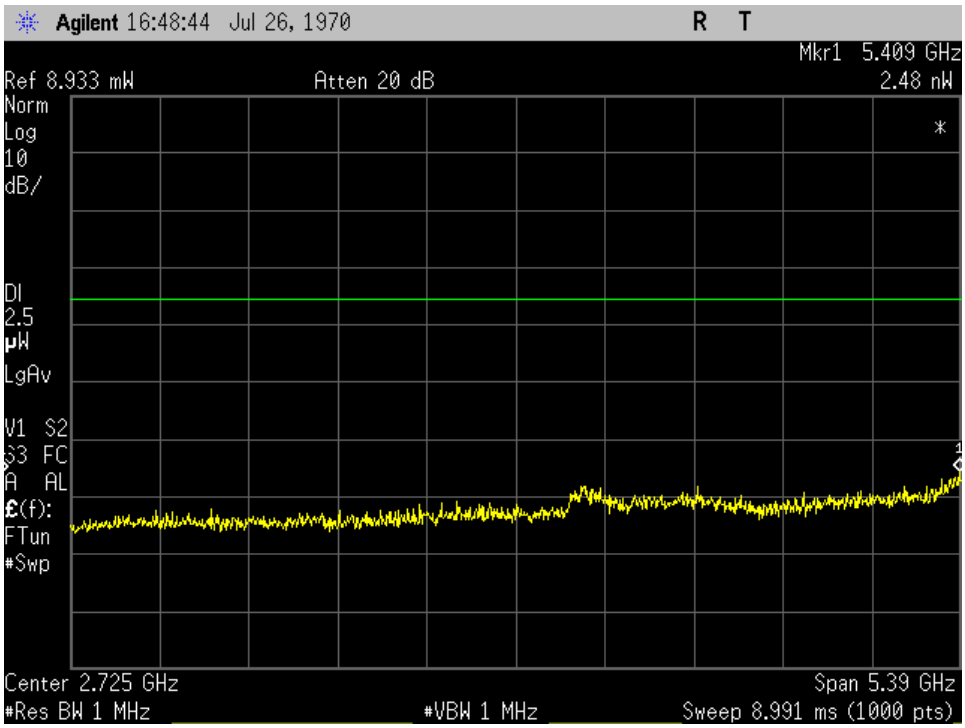


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W56_5610MHz_Mid Ch_122_80MHz BW_ax-mode_Below Carrier_Port 1

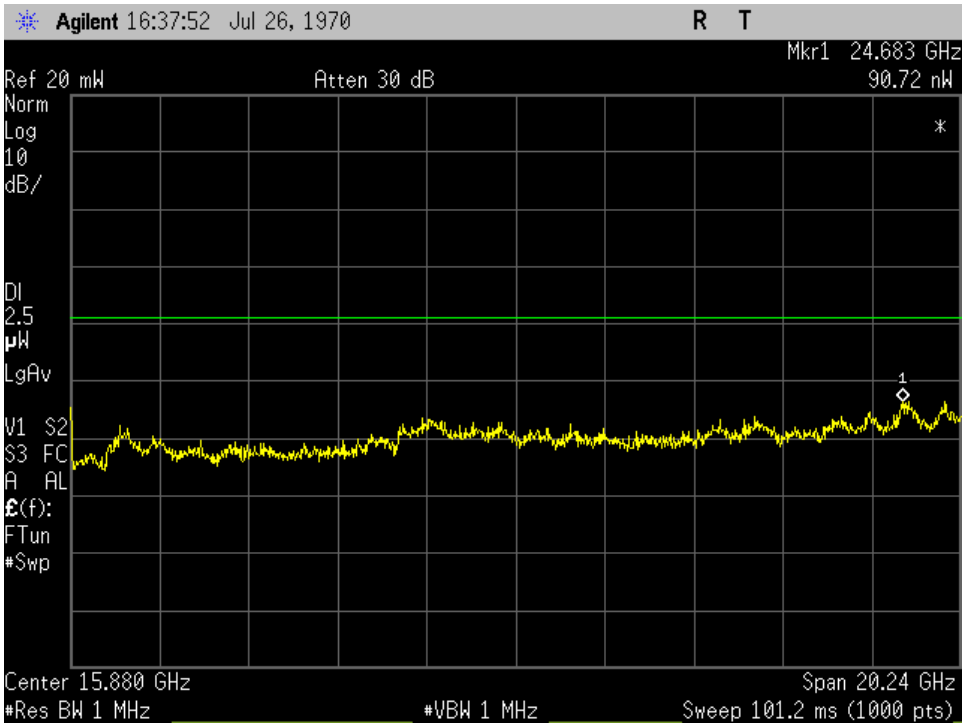


W56_5610MHz_Mid Ch_122_80MHz BW_ax-mode_Below Carrier_Port 2

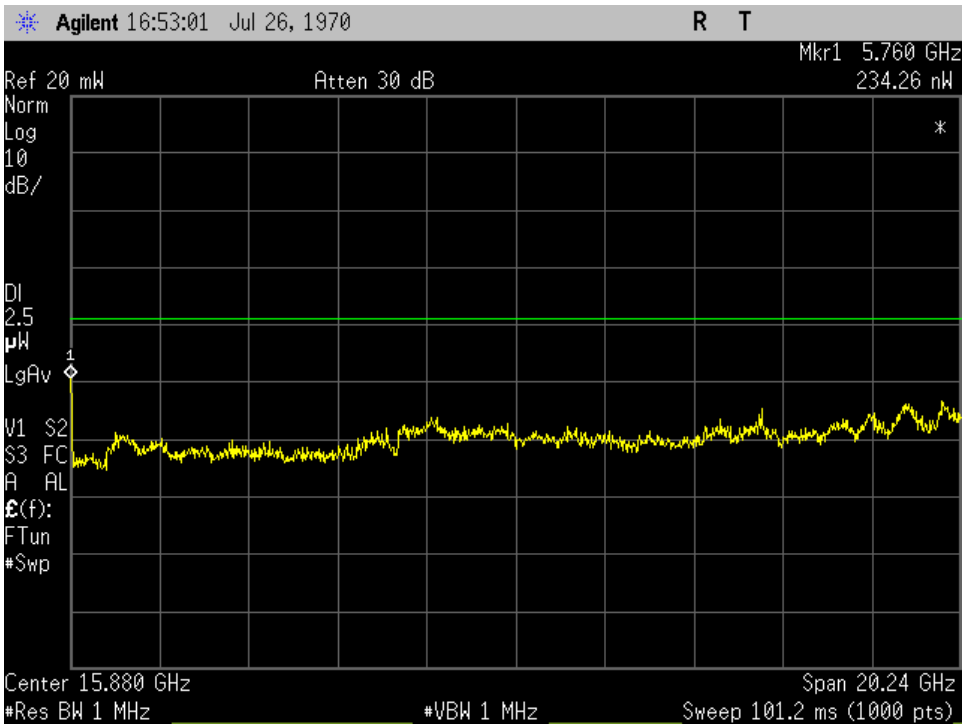


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W56_5690MHz_High Ch_138_80MHz BW_ax-mode_Above Carrier_Port 1

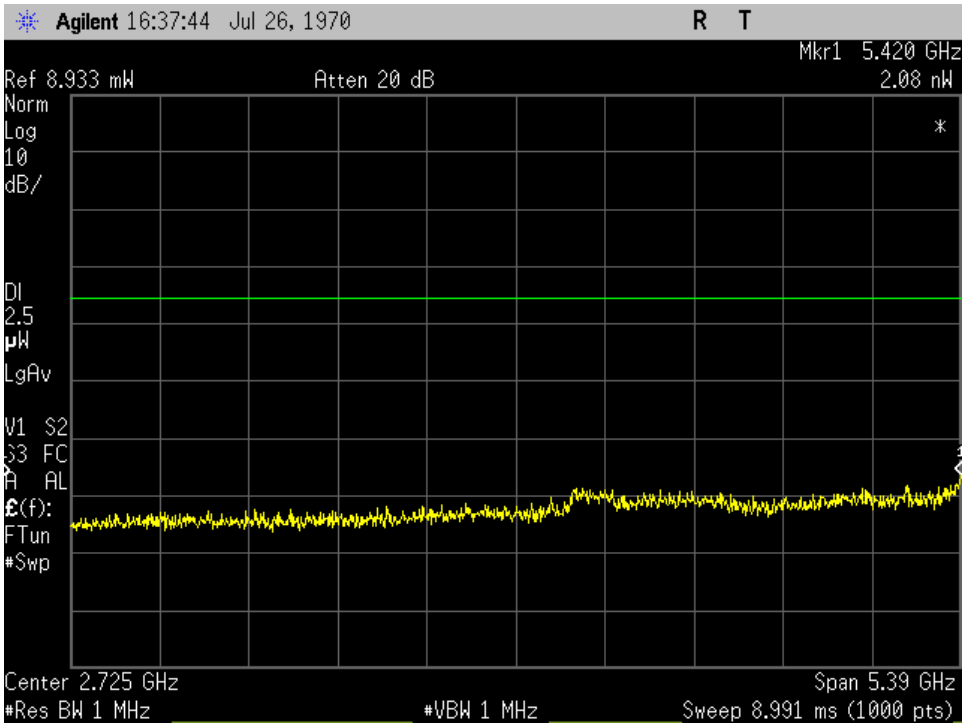


W56_5690MHz_High Ch_138_80MHz BW_ax-mode_Above Carrier_Port 2

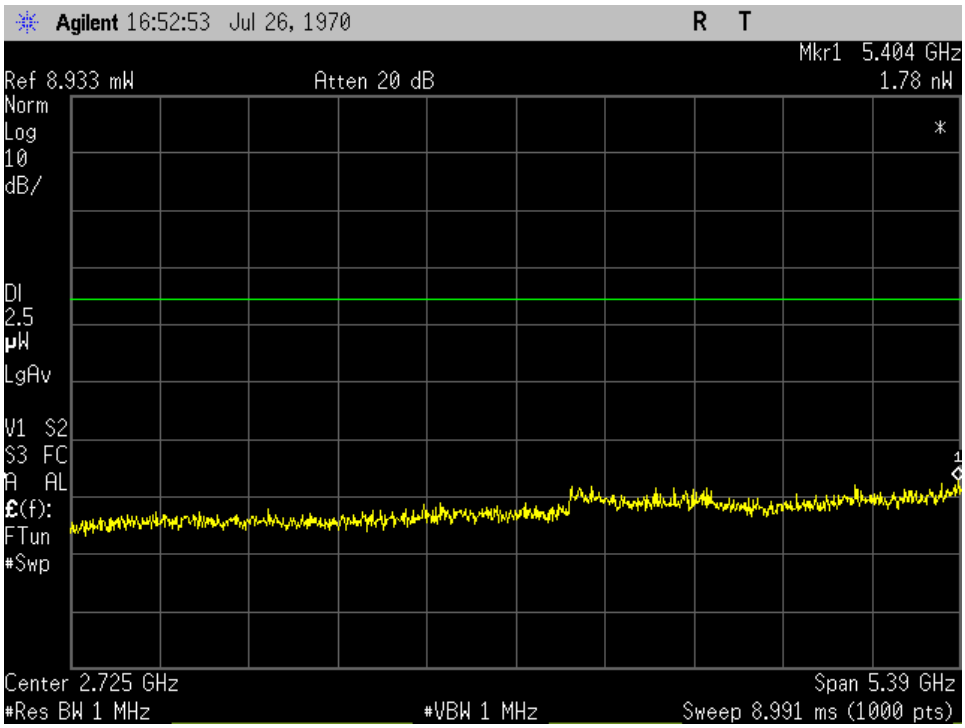


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W56_5690MHz_High Ch_138_80MHz BW_ax-mode_Below Carrier_Port 1



W56_5690MHz_High Ch_138_80MHz BW_ax-mode_Below Carrier_Port 2

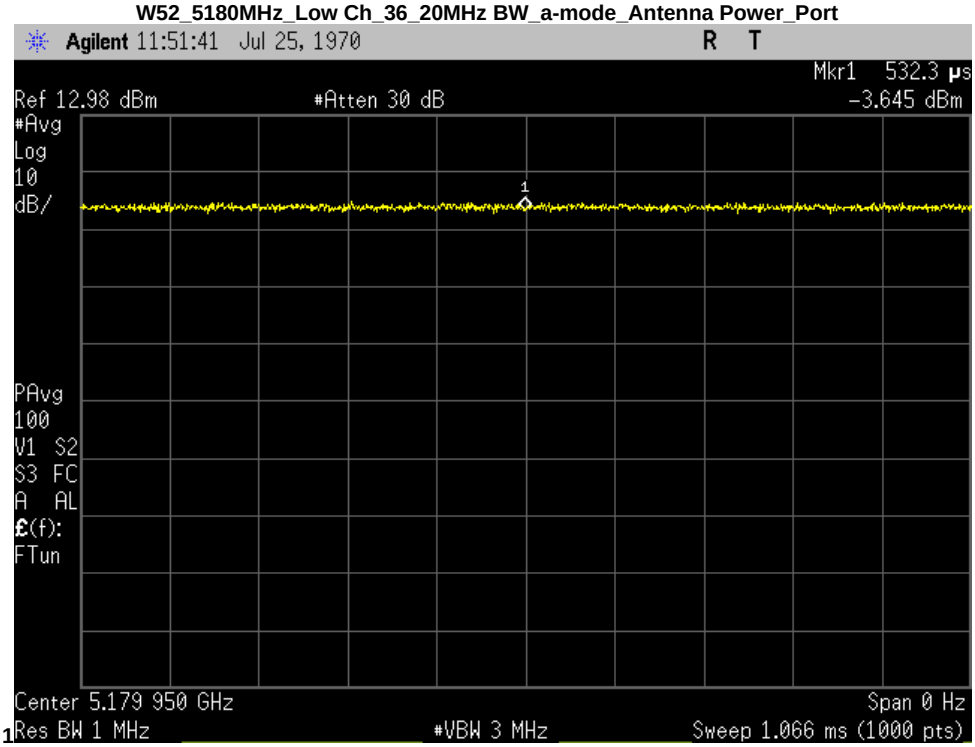


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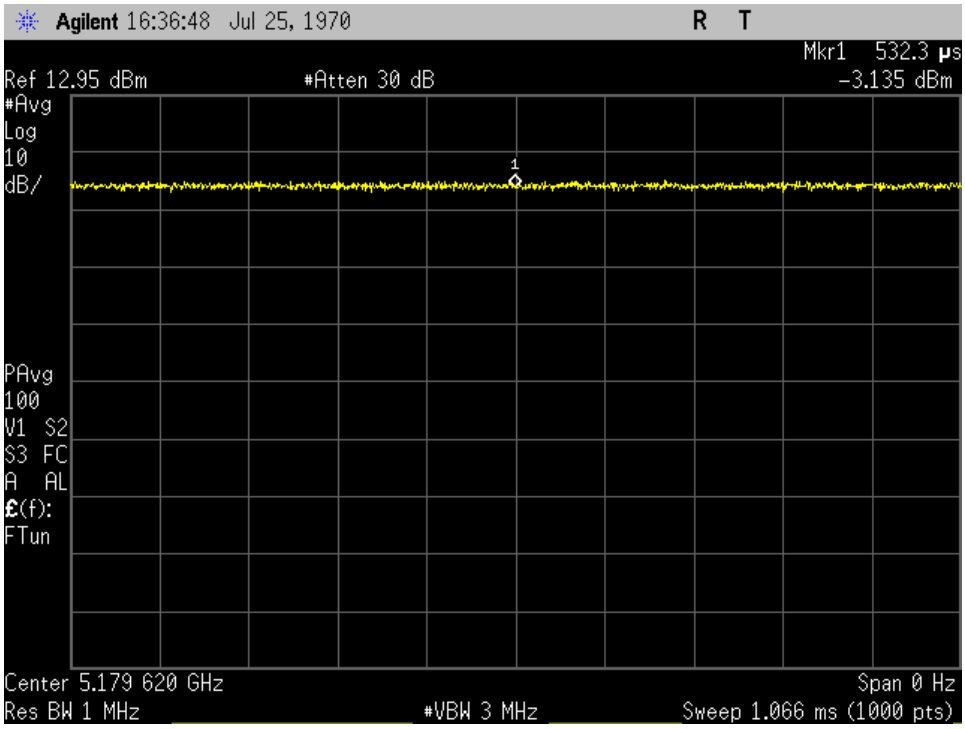
Antenna Power Plots (Band W52)

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W52_5180MHz_Low Ch_36_20MHz BW_a-mode_Antenna Power_Port

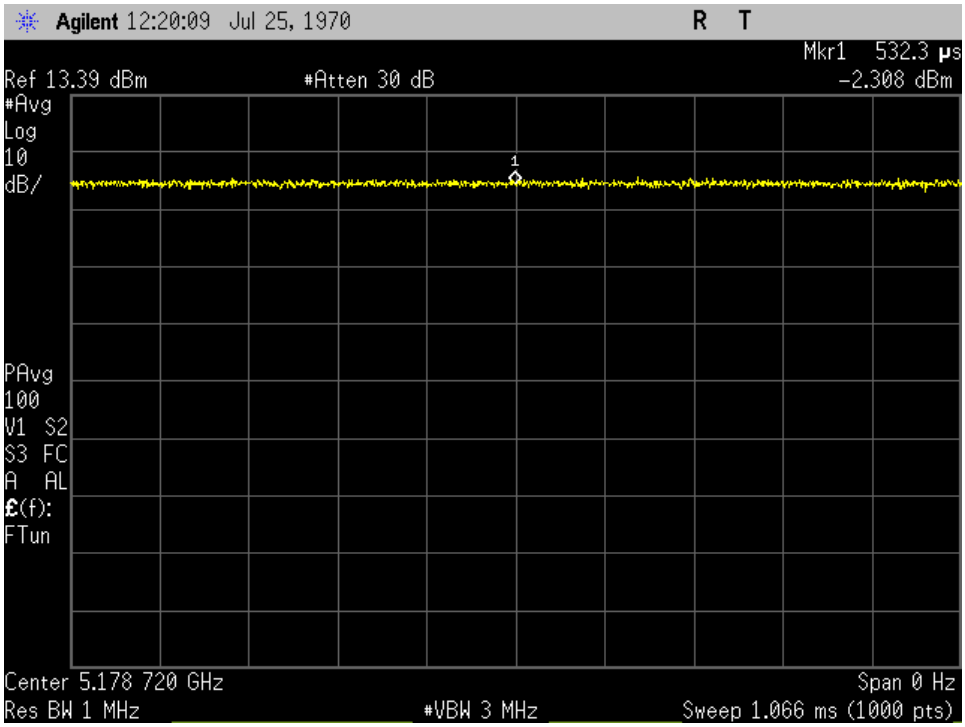


W52_5180MHz_Low Ch_36_20MHz BW_a-mode_Antenna Power_Port 2

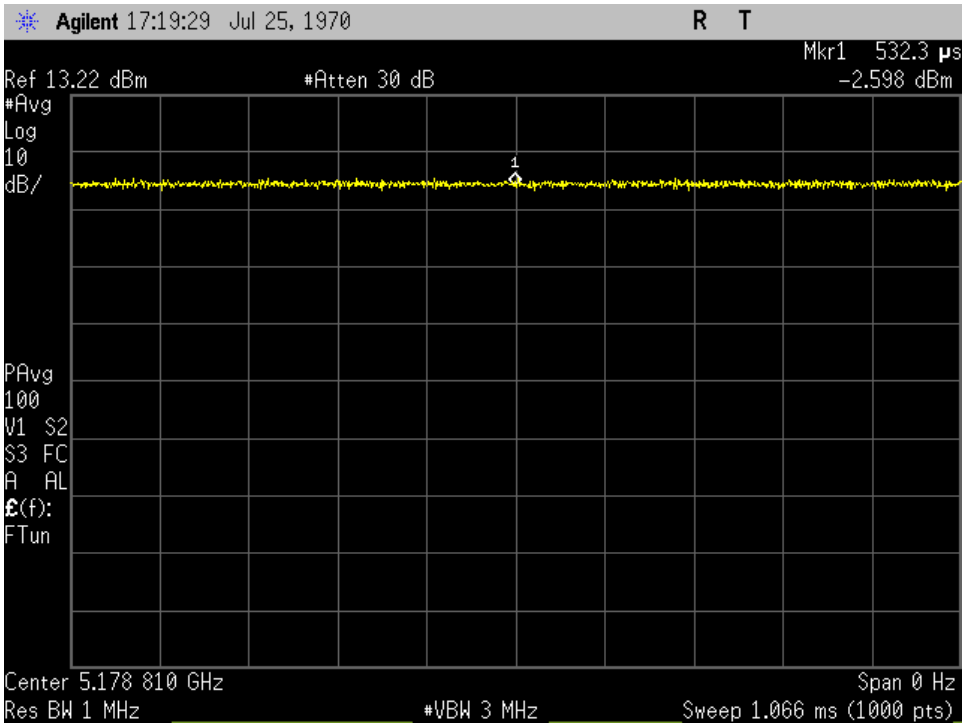


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W52_5180MHz_Low Ch_36_20MHz BW_n-mode_Antenna Power_Port 1

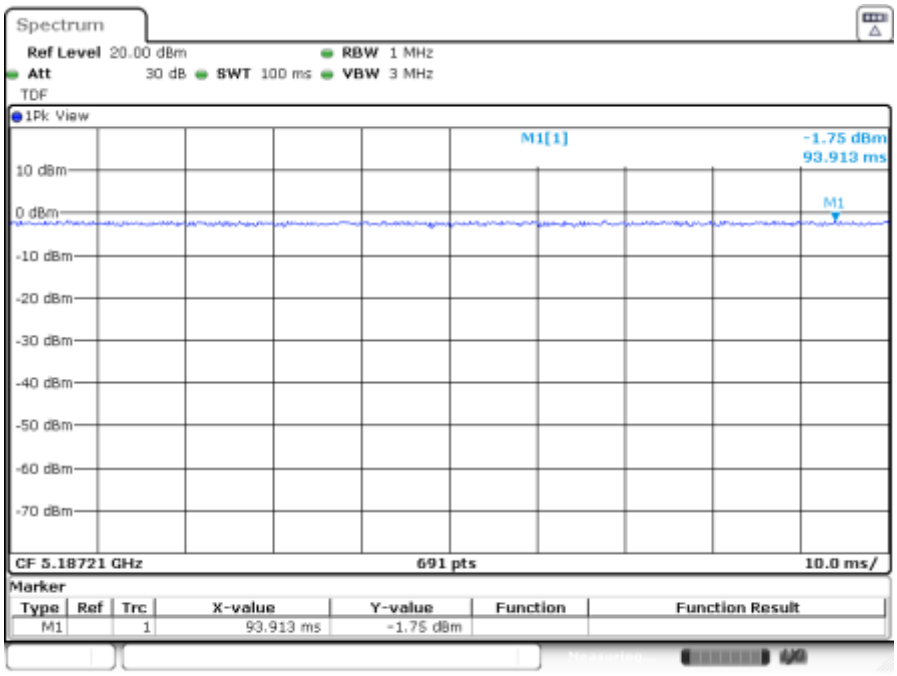


W52_5180MHz_Low Ch_36_20MHz BW_n-mode_Antenna Power_Port 2

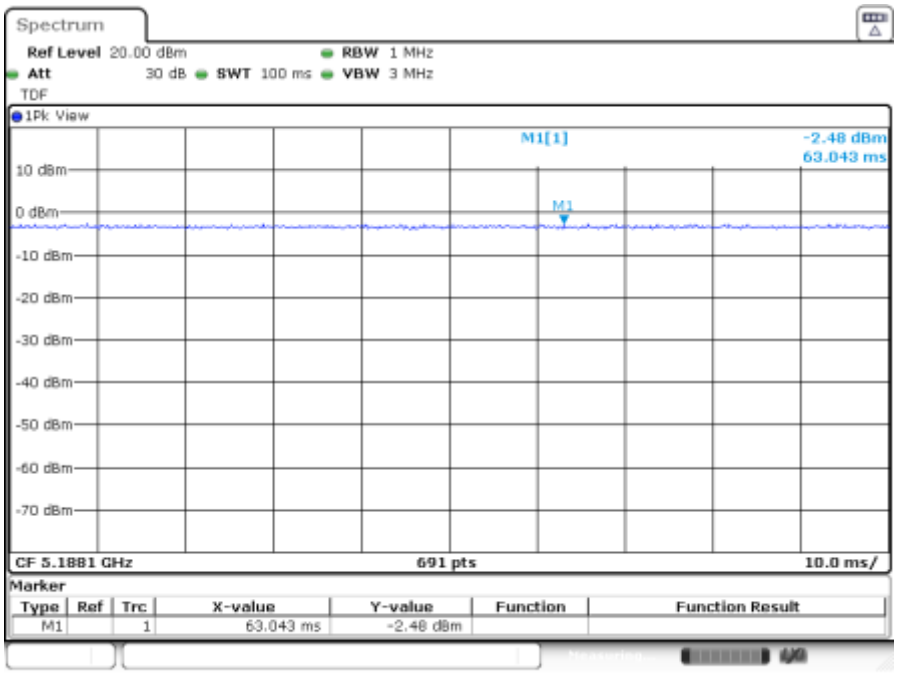


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W52_5190MHz_Low Ch_38_40MHz BW_n-mode_Antenna Power_Port 1

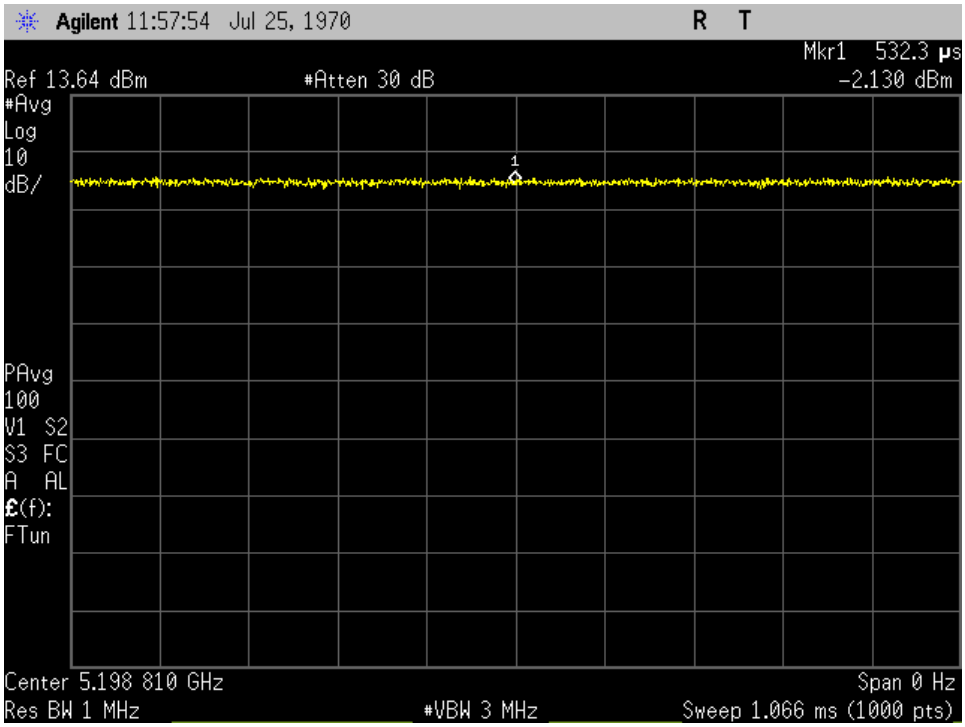


W52_5190MHz_Low Ch_38_40MHz BW_n-mode_Antenna Power_Port 2

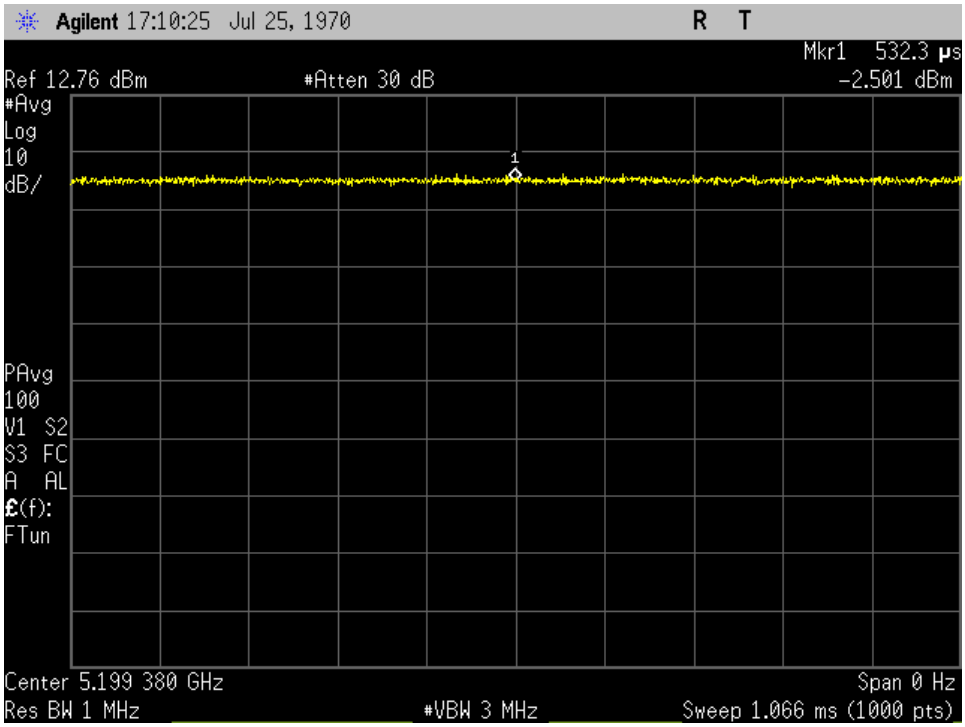


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W52_5200MHz_low_mid Ch_40_20MHz BW_a-mode_Antenna Power_Port 1

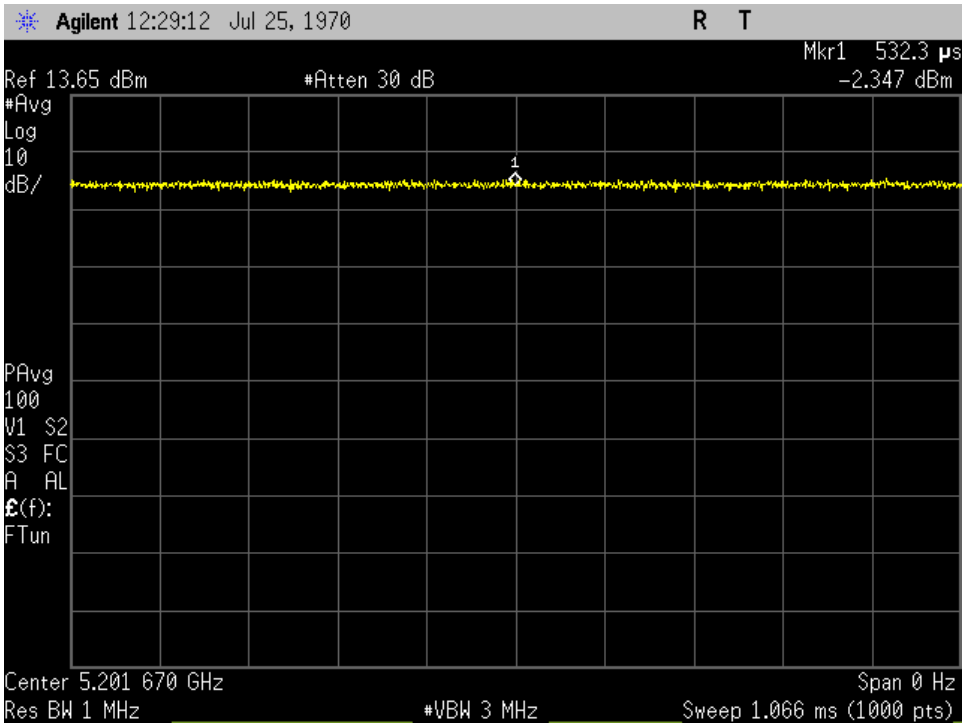


W52_5200MHz_low_mid Ch_40_20MHz BW_a-mode_Antenna Power_Port 2

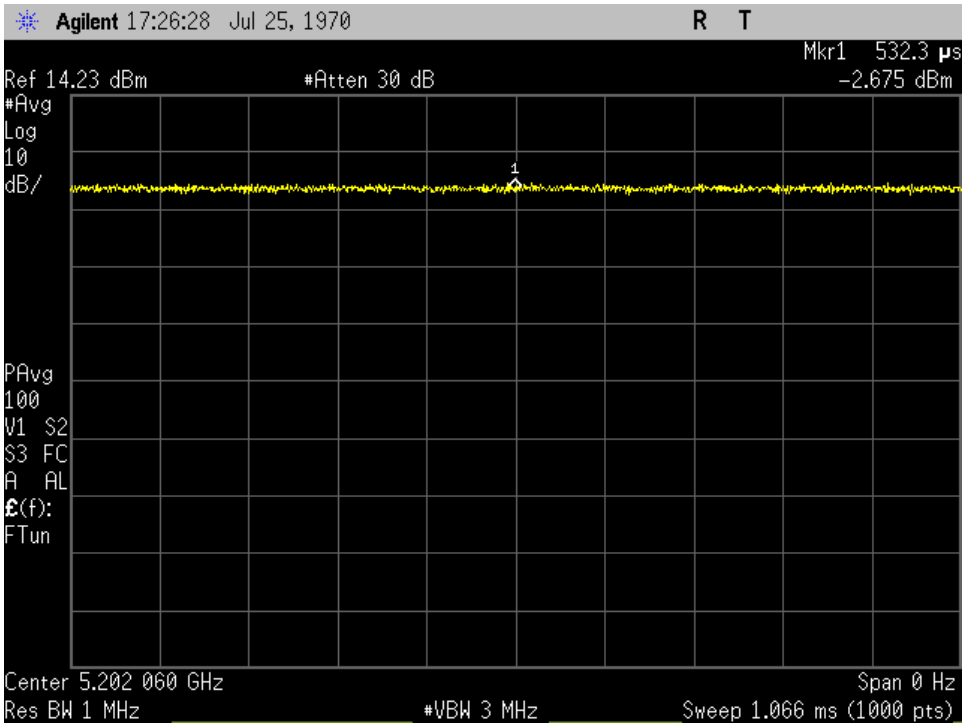


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W52_5200MHz_low_mid Ch_40_20MHz BW_n-mode_Antenna Power_Port 1

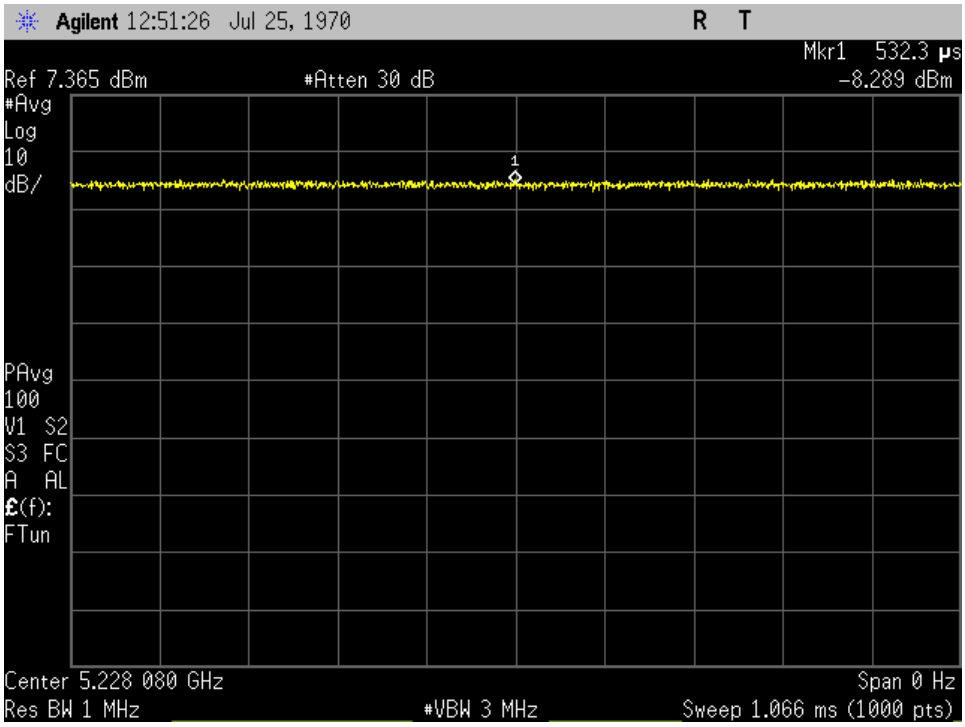


W52_5200MHz_low_mid Ch_40_20MHz BW_n-mode_Antenna Power_Port 2

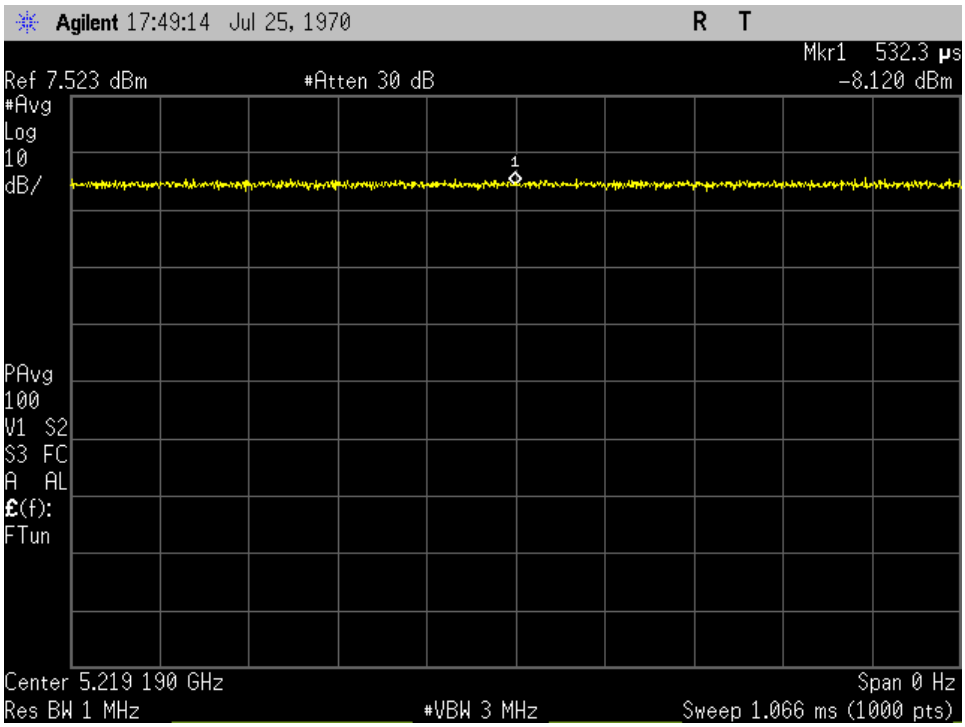


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W52_5210MHz_Low mid Ch_42_80MHz BW_ac-mode_Antenna Power_Port 1

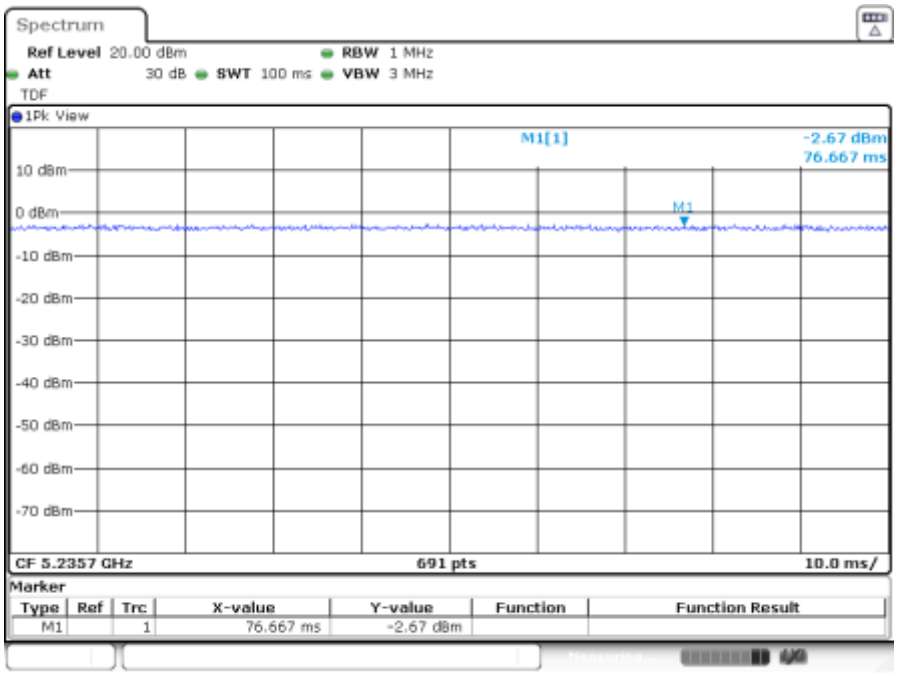


W52_5210MHz_Low mid Ch_42_80MHz BW_ac-mode_Antenna Power_Port 2

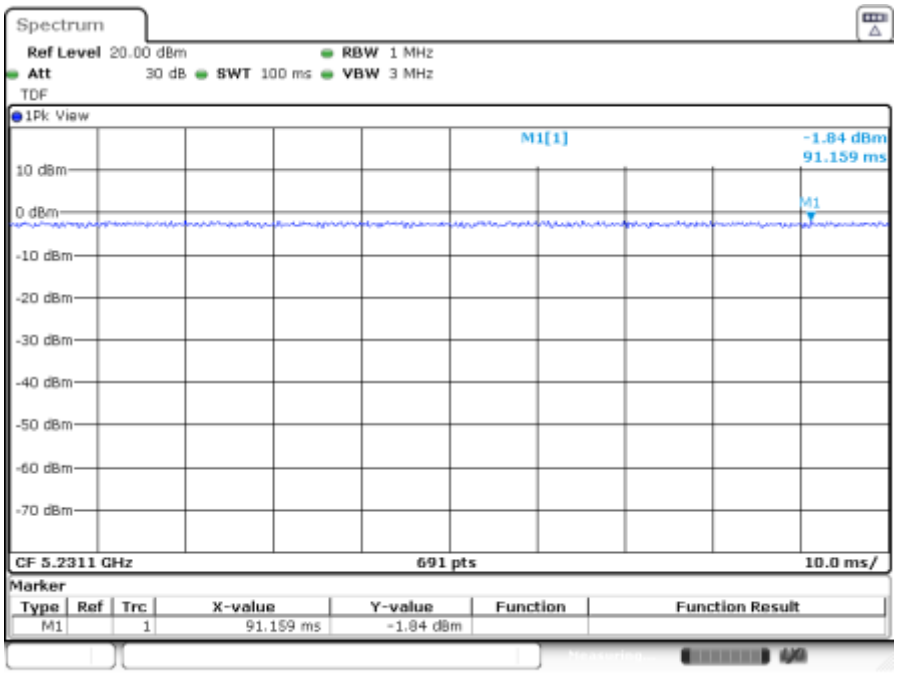


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W52_5230MHz_high_mid Ch_46_40MHz BW_n-mode_Antenna Power_Port 1

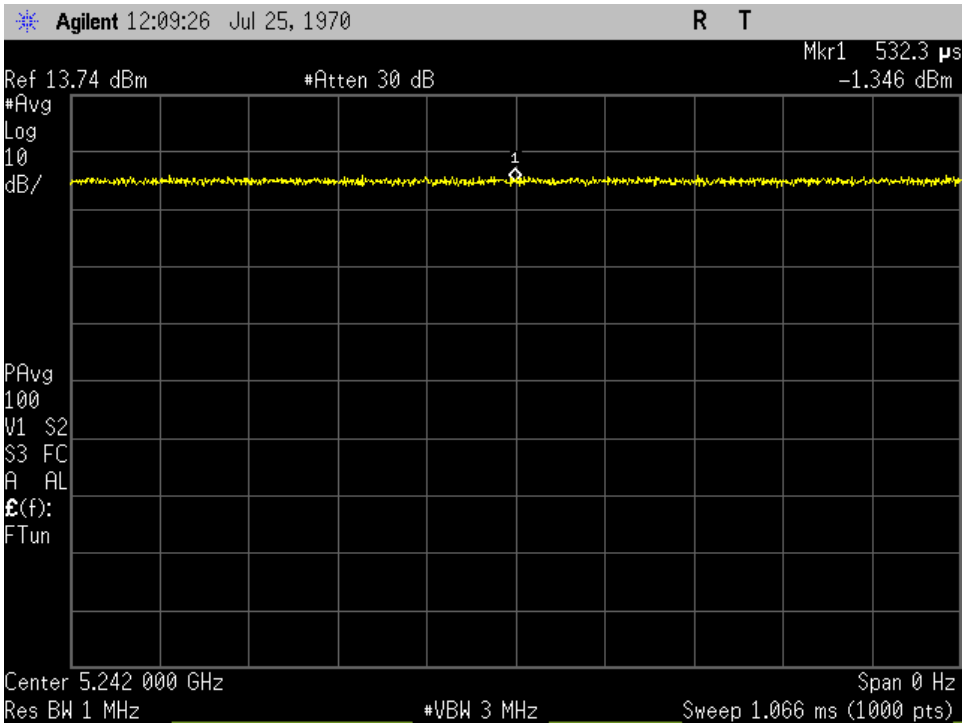


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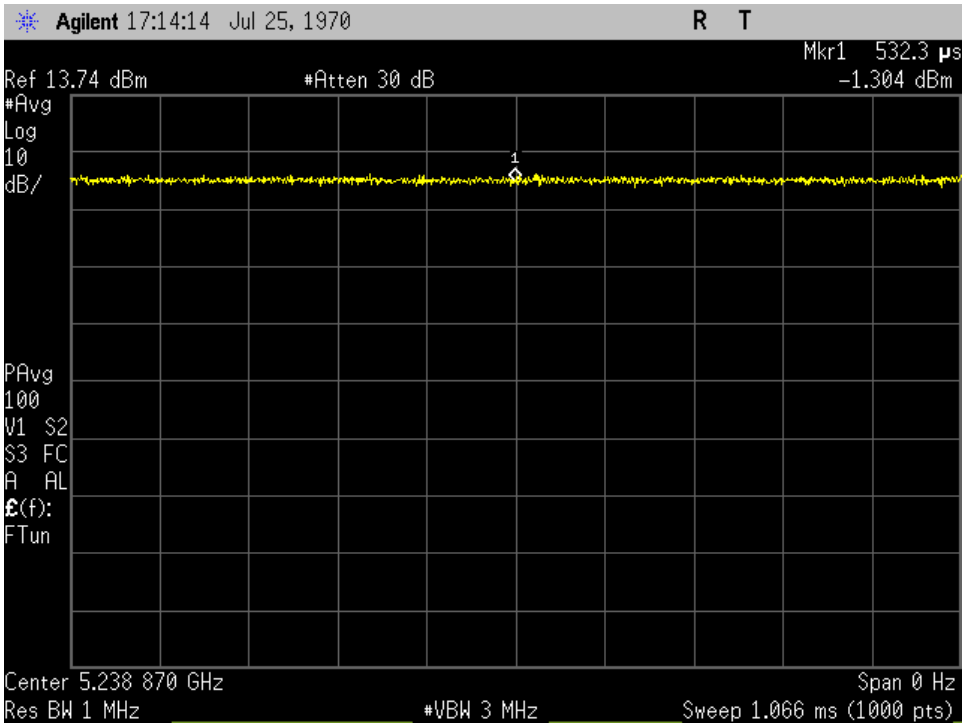


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W52_5240MHz_high_mid Ch_48_20MHz BW_a-mode_Antenna Power_Port 1

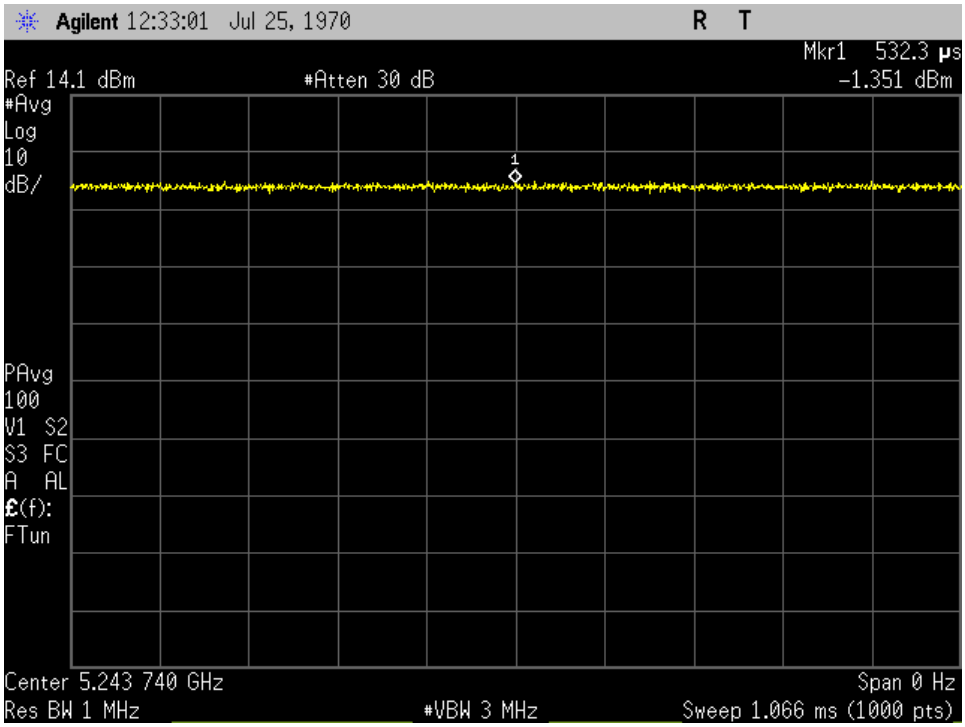


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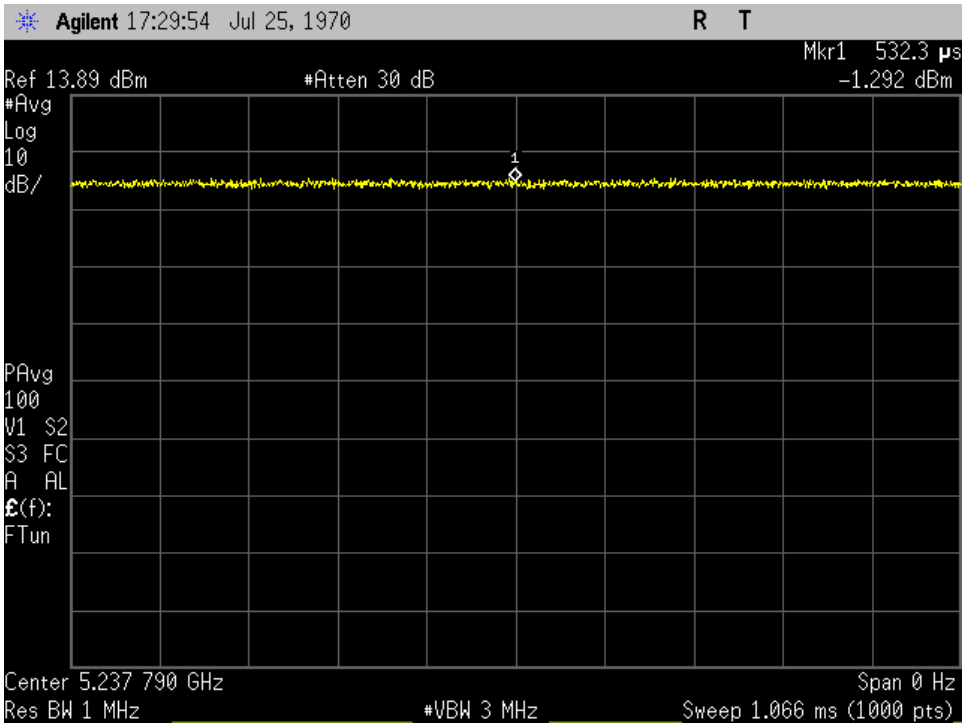


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W52_5240MHz_high_mid Ch_48_20MHz BW_n-mode_Antenna Power_Port 1

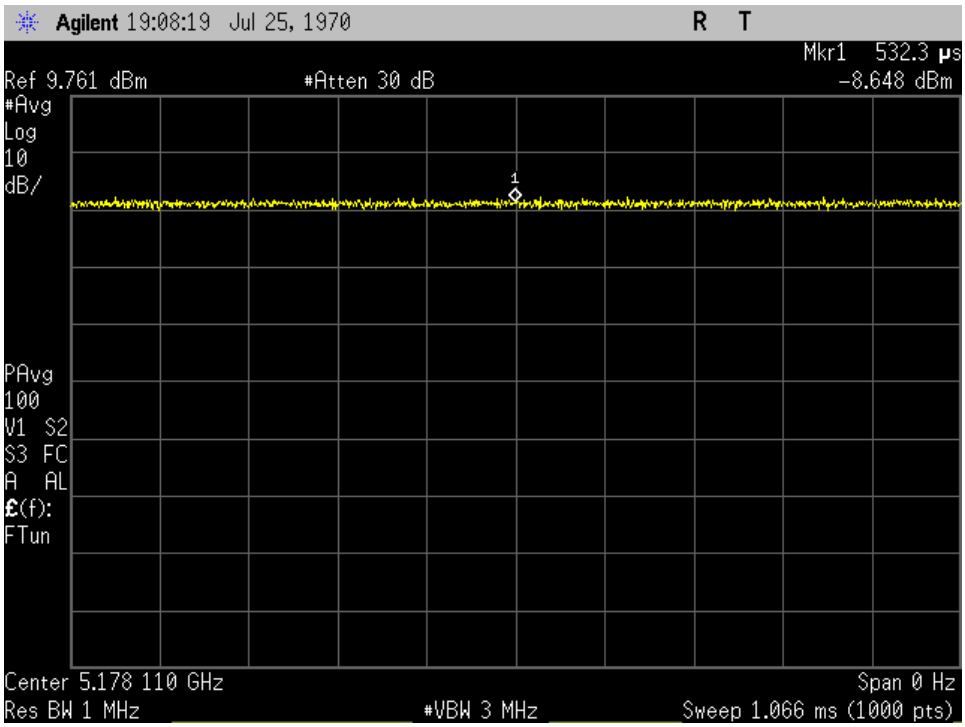


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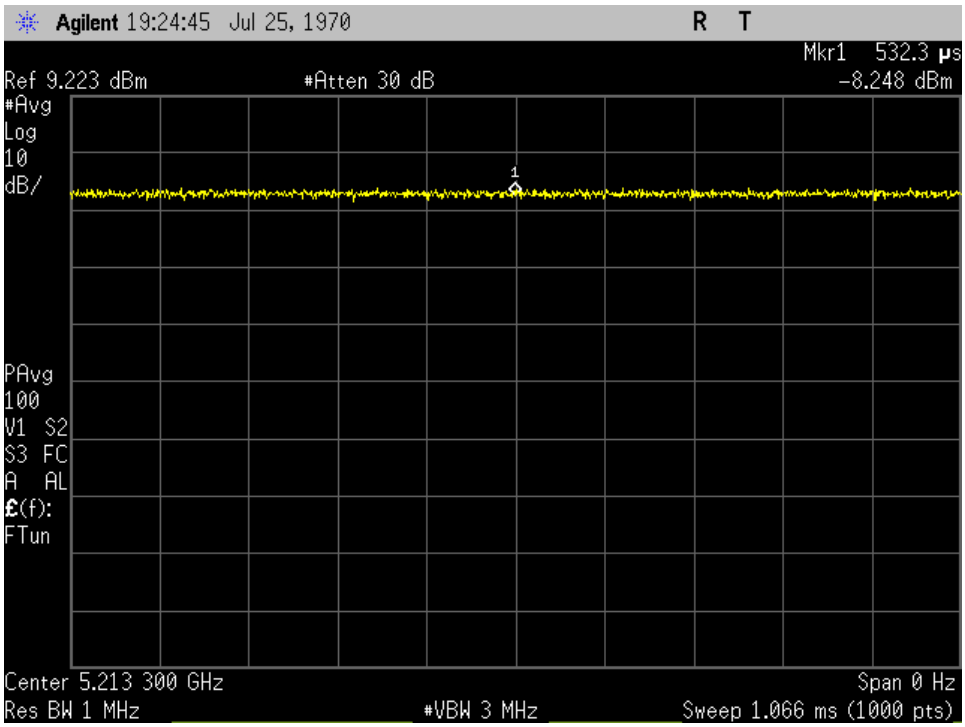


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W52_5210MHz_Low mid Ch_42_80MHz BW_ax-mode_Antenna Power_Port 1



W52_5210MHz_Low mid Ch_42_80MHz BW_ax-mode_Antenna Power_Port 2

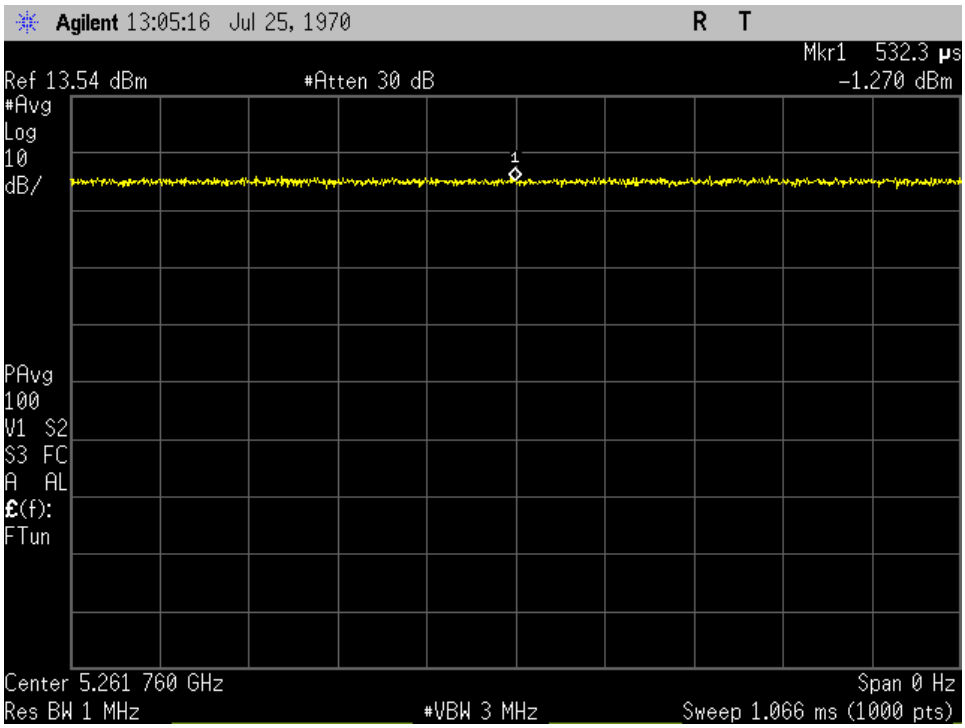


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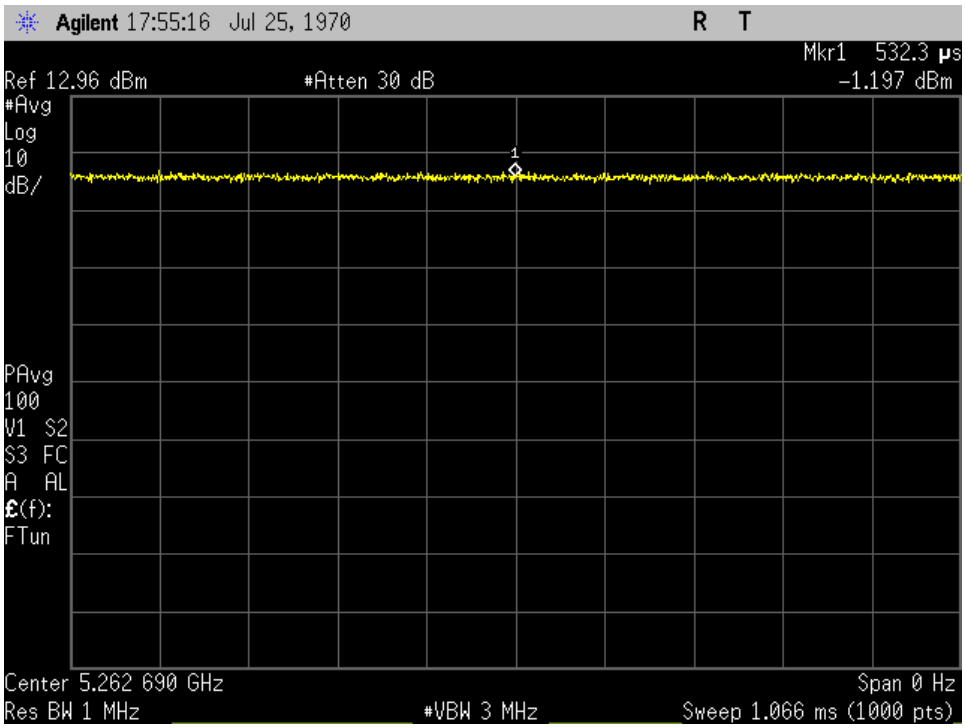
Antenna Power Plots (Band W53)

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W53_5260MHz_low_mid Ch_52_20MHz BW_a-mode_Antenna Power_Port 1

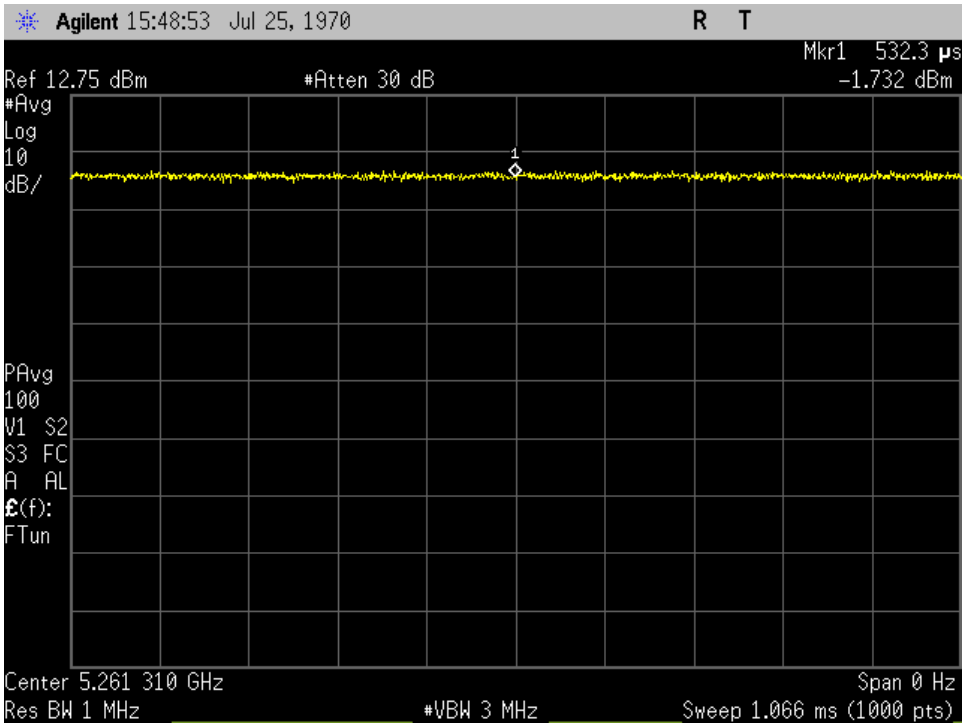


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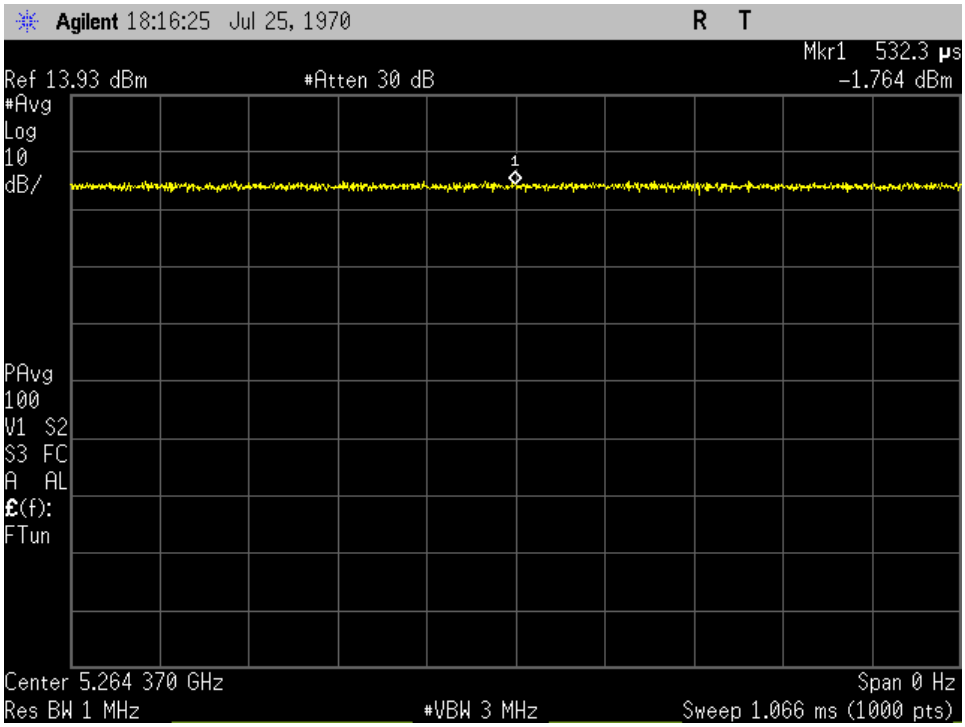


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W53_5260MHz_low_mid Ch_52_20MHz BW_n-mode_Antenna Power_Port 1

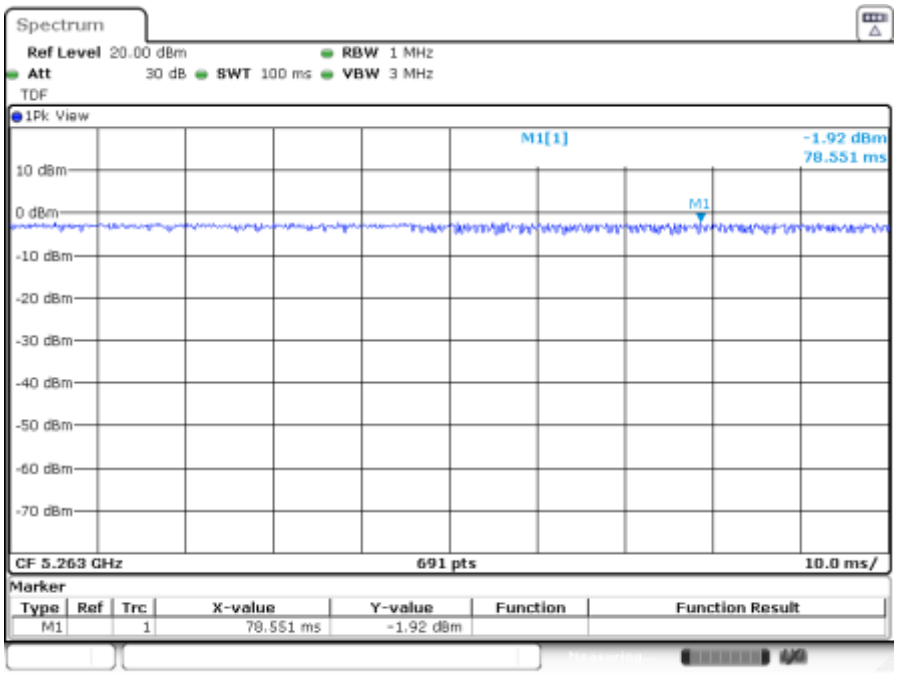


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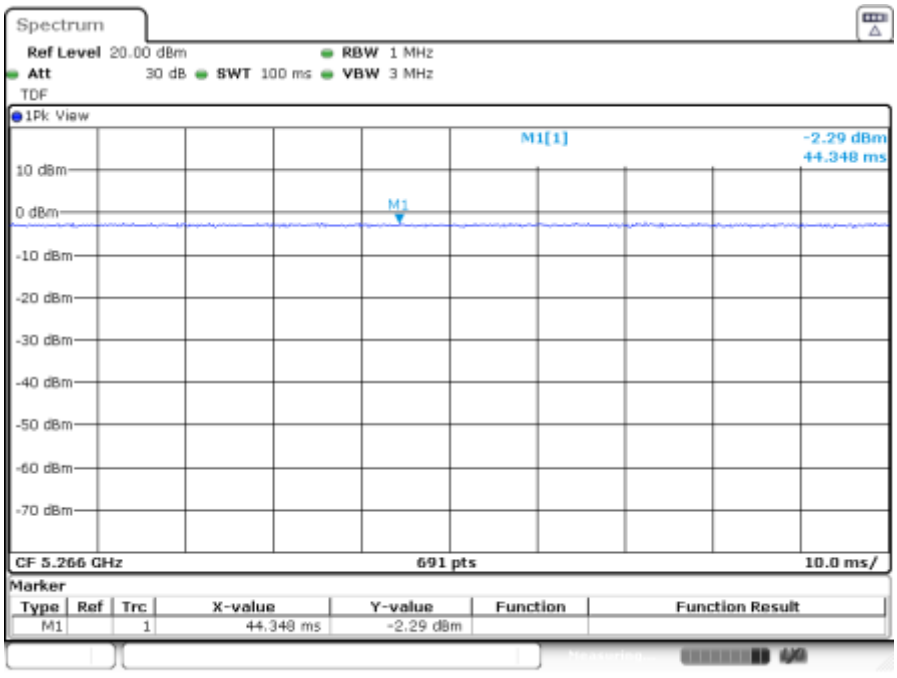


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W53_5270MHz_low_mid Ch_54_40MHz BW_n-mode_Antenna Power_Port 1

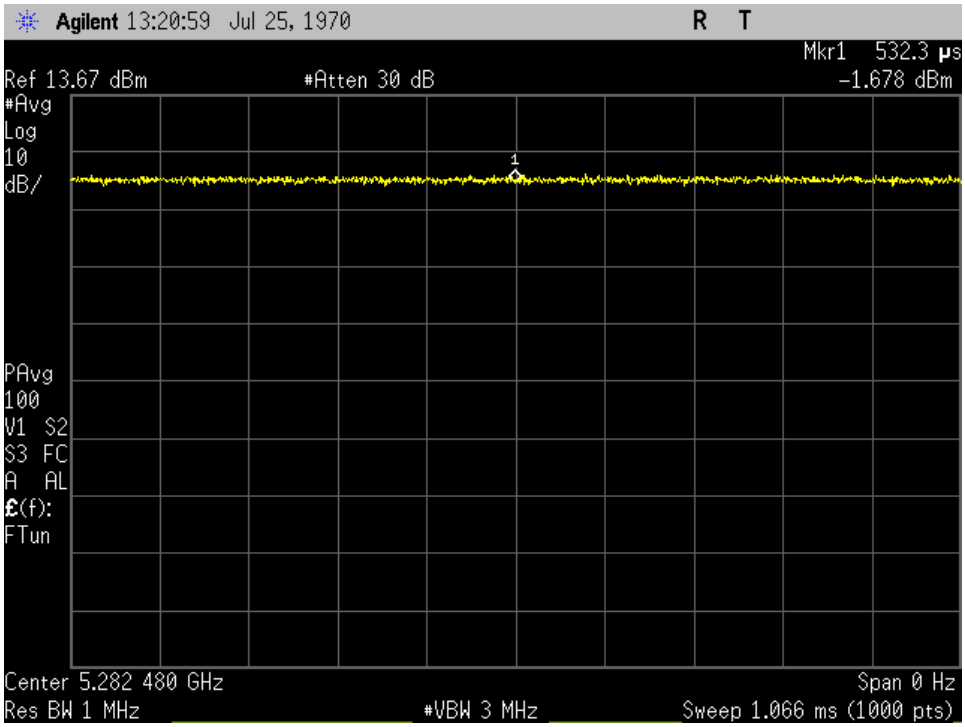


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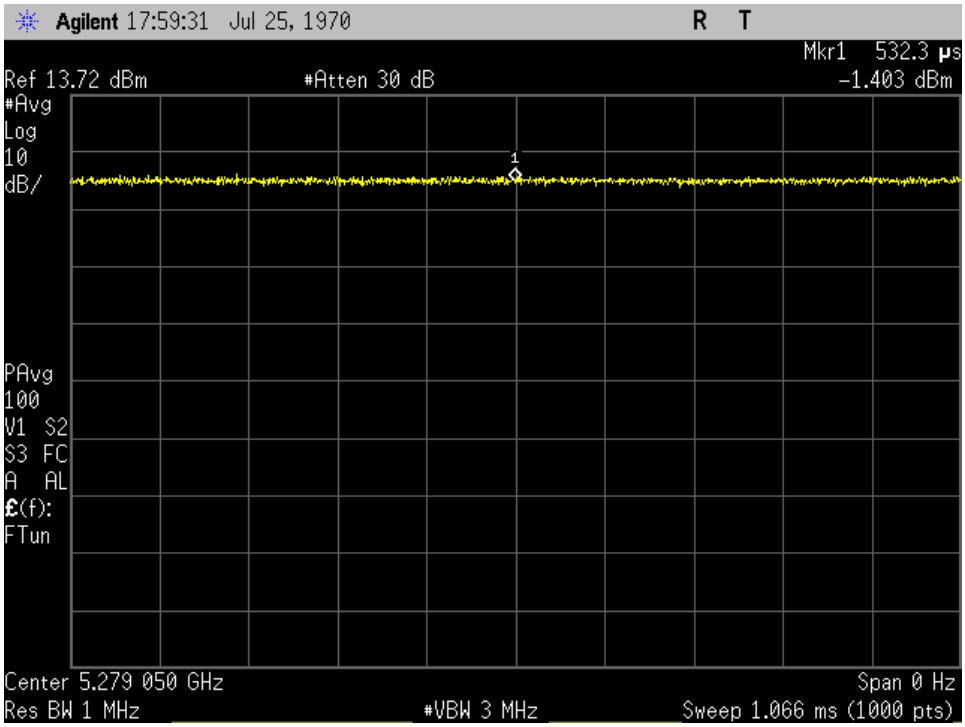


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W53_5280MHz_high_mid Ch_56_20MHz BW_a-mode_Antenna Power_Port 1

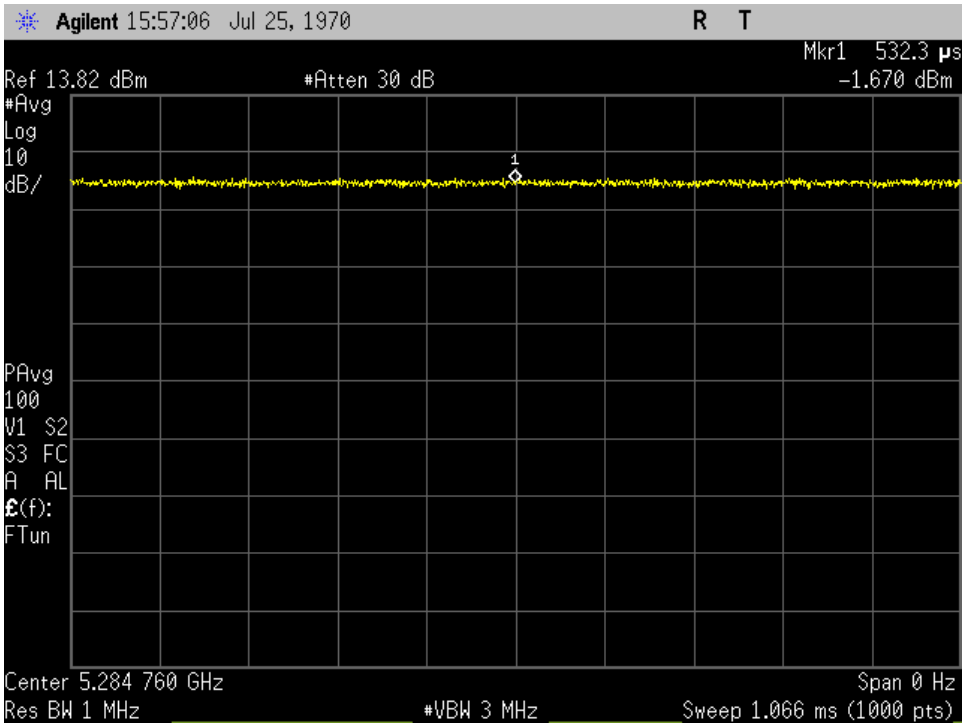


W53_5280MHz_high_mid Ch_56_20MHz BW_a-mode_Antenna Power_Port 2

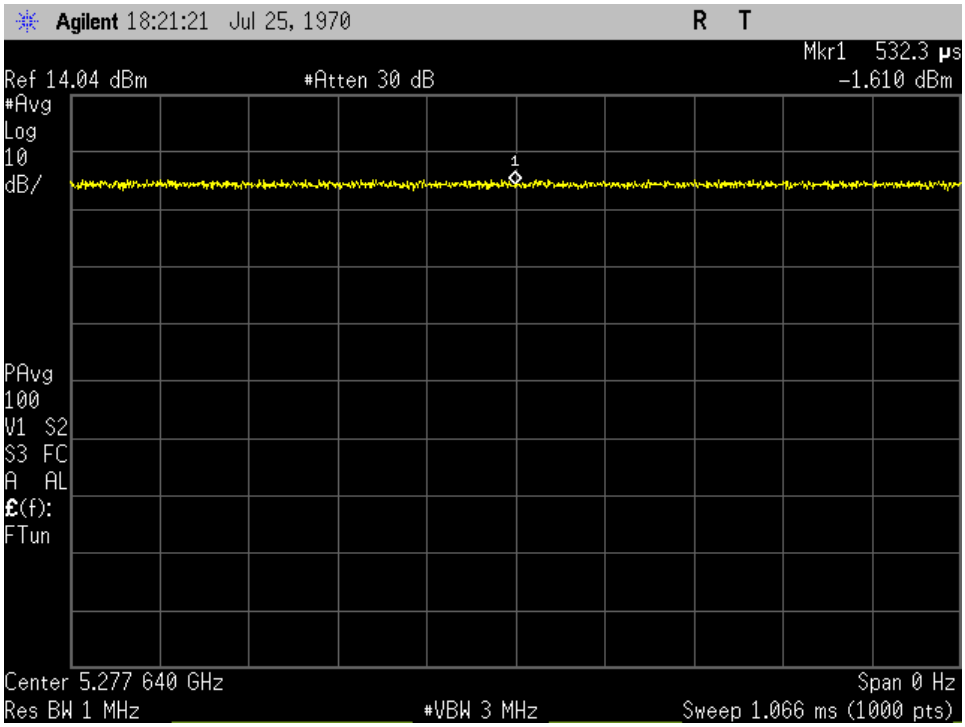


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W53_5280MHz_high_mid Ch_56_20MHz BW_n-mode_Antenna Power_Port 1

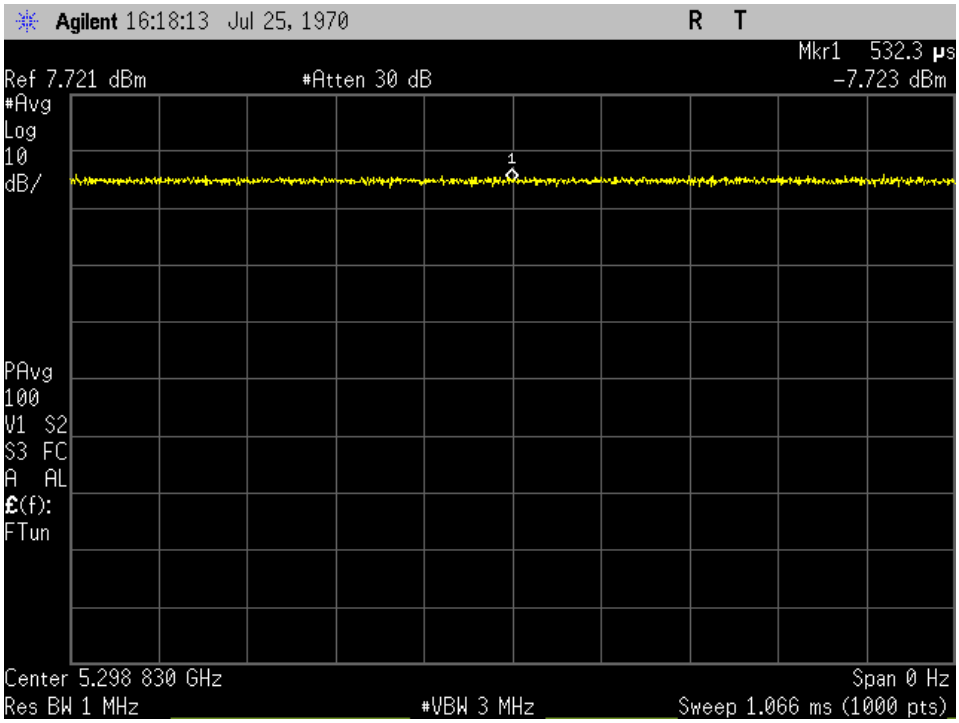


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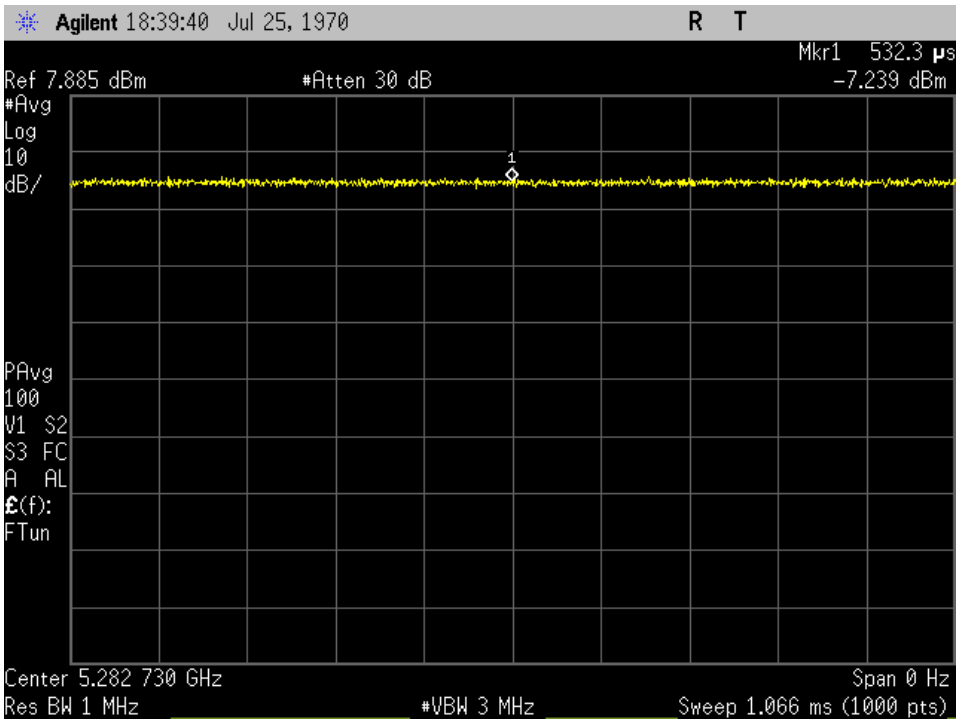


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W53_5290MHz_High Ch_58_80MHz BW_ac-mode_Antenna Power_Port 1

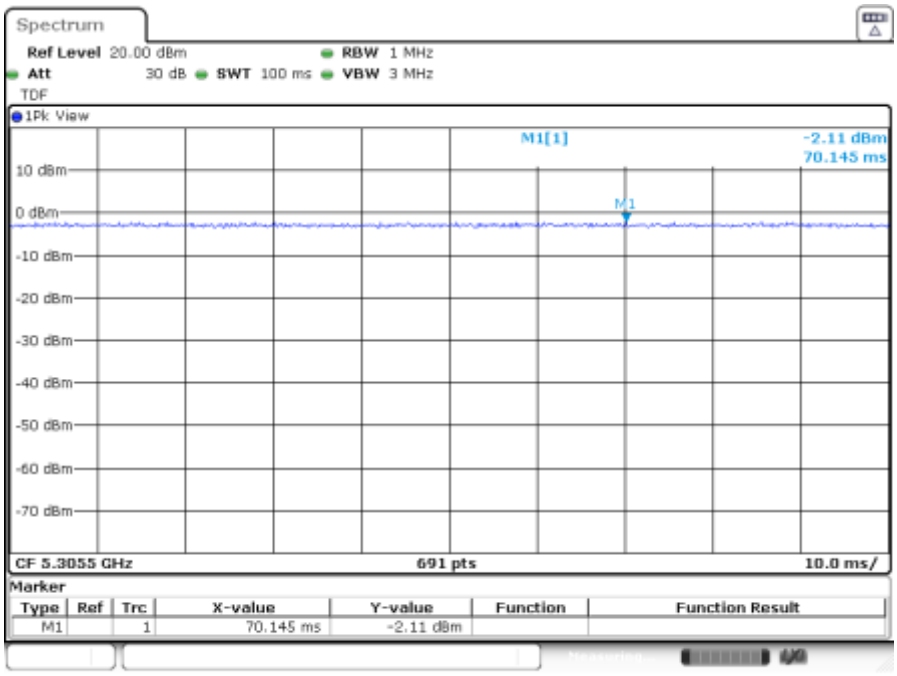


W53_5290MHz_High Ch_58_80MHz BW_ac-mode_Antenna Power_Port 2

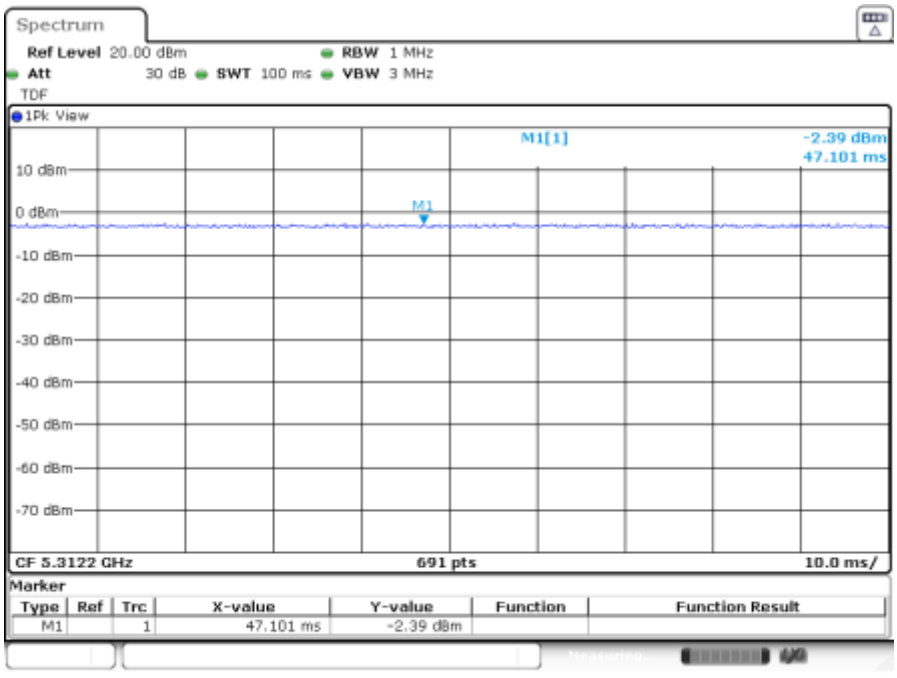


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W53_5310MHz_High Ch_62_40MHz BW_n-mode_Antenna Power_Port 1

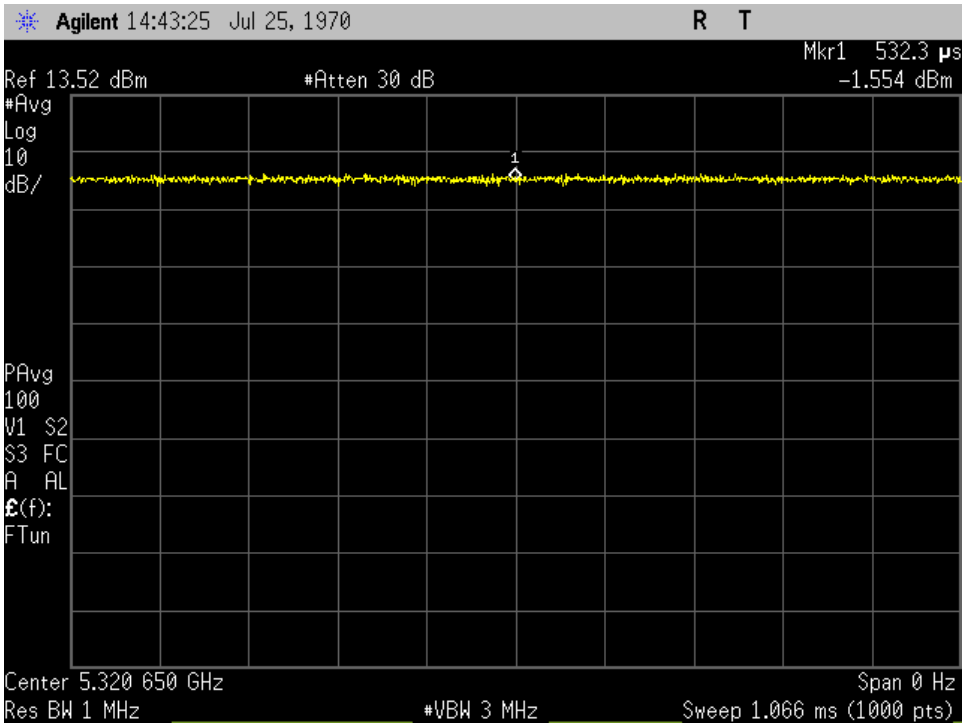


W53_5310MHz_High Ch_62_40MHz BW_n-mode_Antenna Power_Port 2

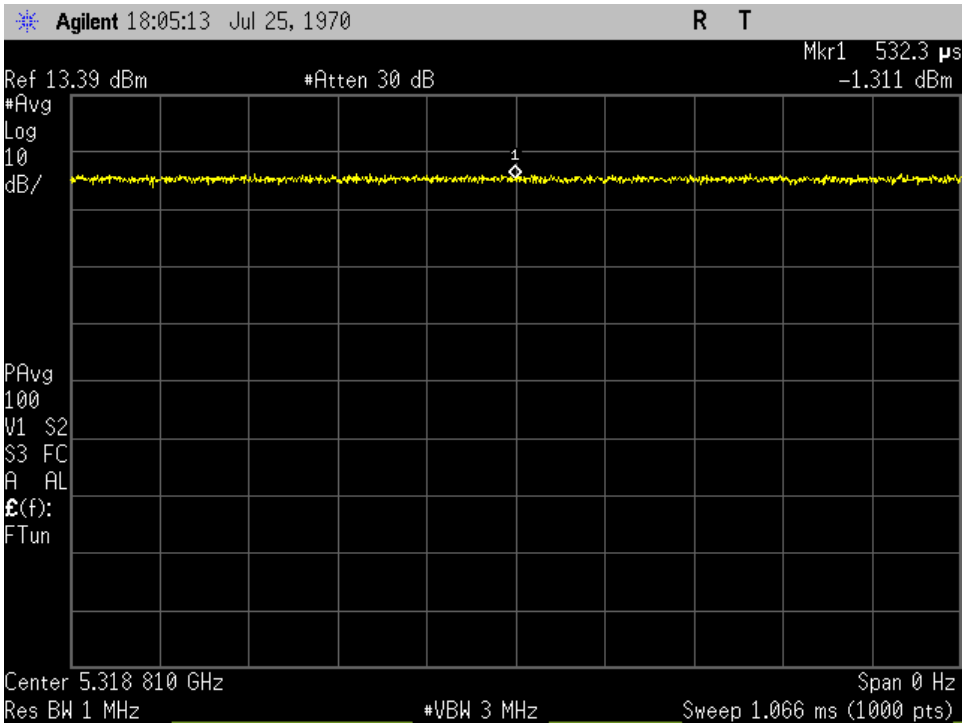


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W53_5320MHz_High Ch_64_20MHz BW_a-mode_Antenna Power_Port 1

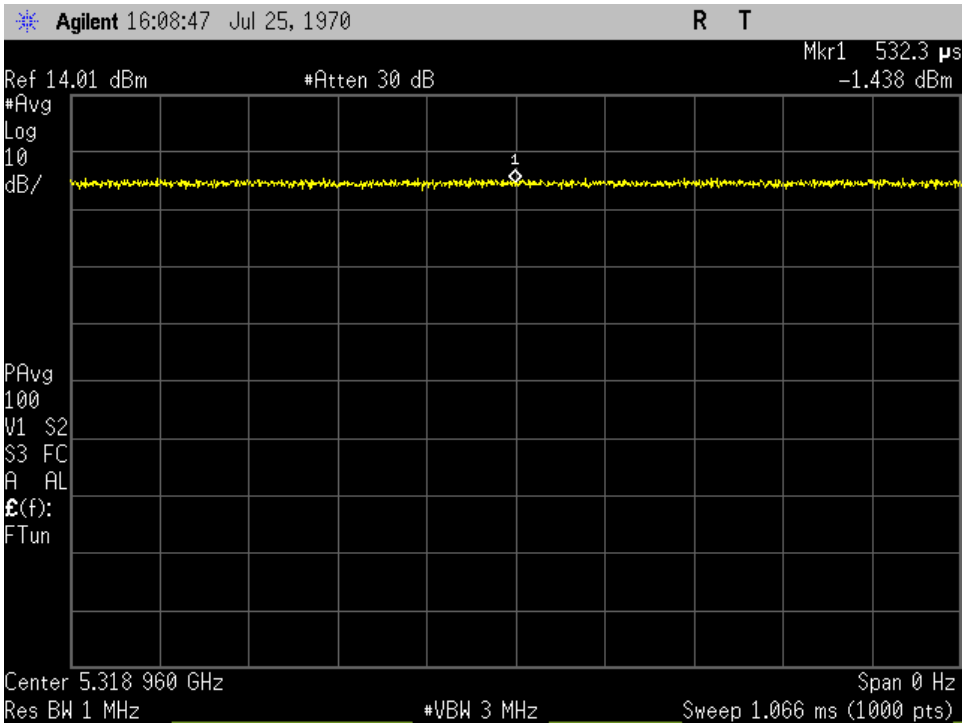


W53_5320MHz_High Ch_64_20MHz BW_a-mode_Antenna Power_Port 2

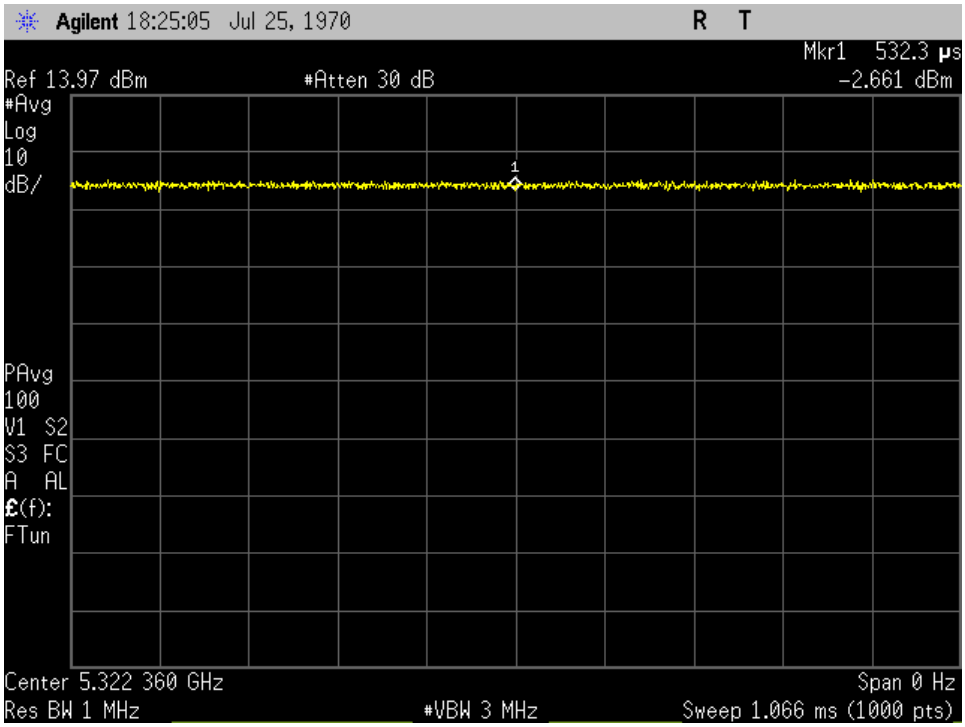


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W53_5320MHz_High Ch_64_20MHz BW_n-mode_Antenna Power_Port 1

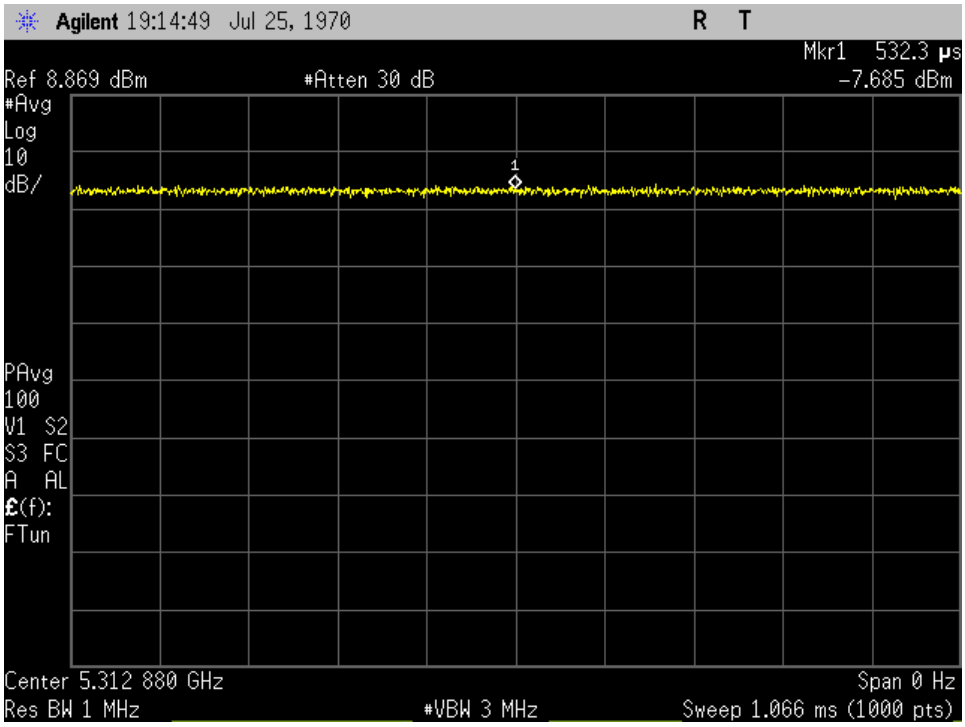


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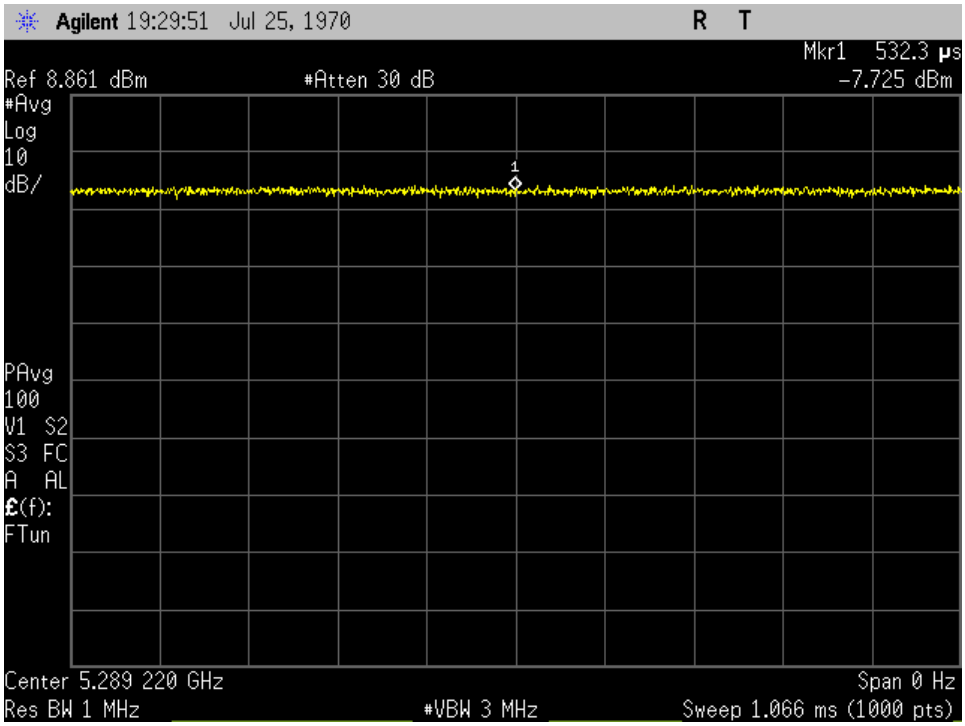


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W53_5290MHz_High Ch_58_80MHz BW_ax-mode_Antenna Power_Port 1



W53_5290MHz_High Ch_58_80MHz BW_ax-mode_Antenna Power_Port 2

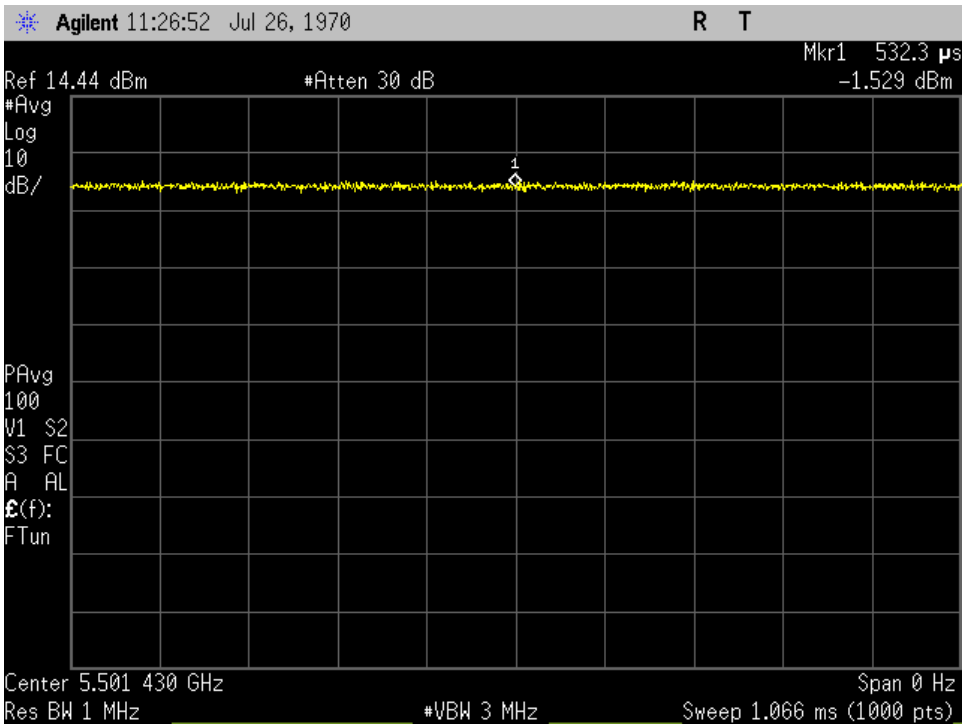


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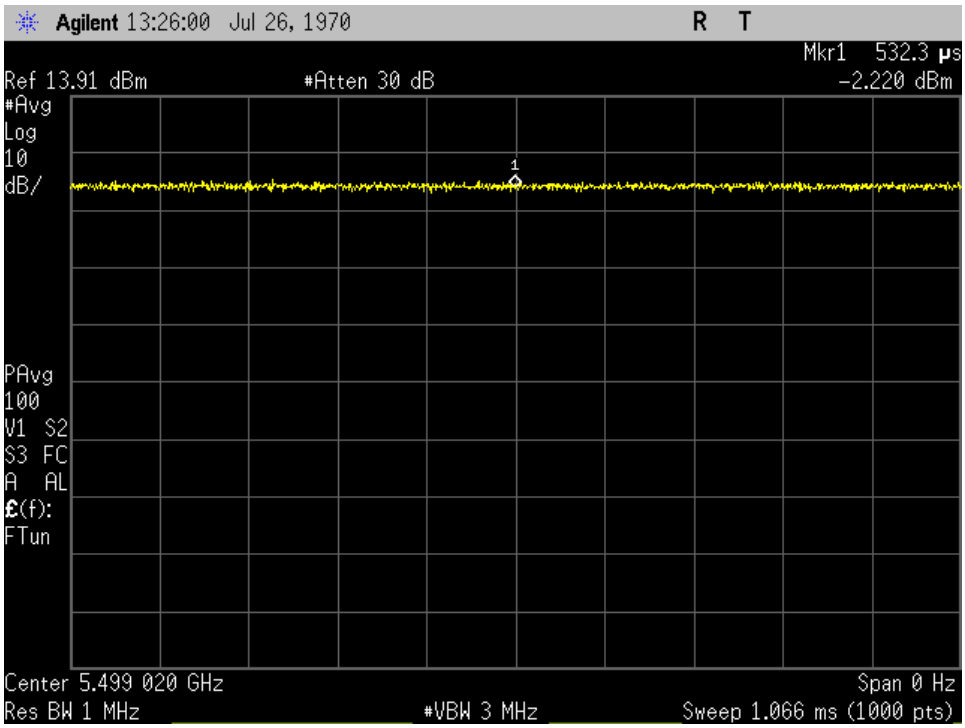
Antenna Power Plots (Band W56)

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W56_5500MHz_High Ch_100_20MHz BW_n-mode_Antenna Power_Port 1

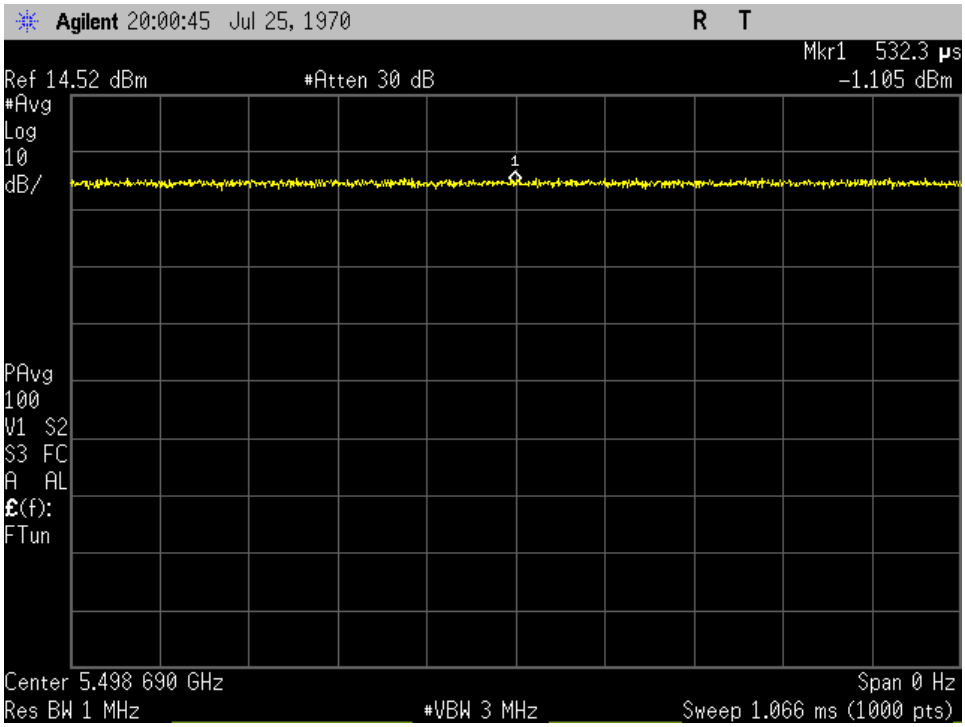


W56_5500MHz_High Ch_100_20MHz BW_n-mode_Antenna Power_Port 2

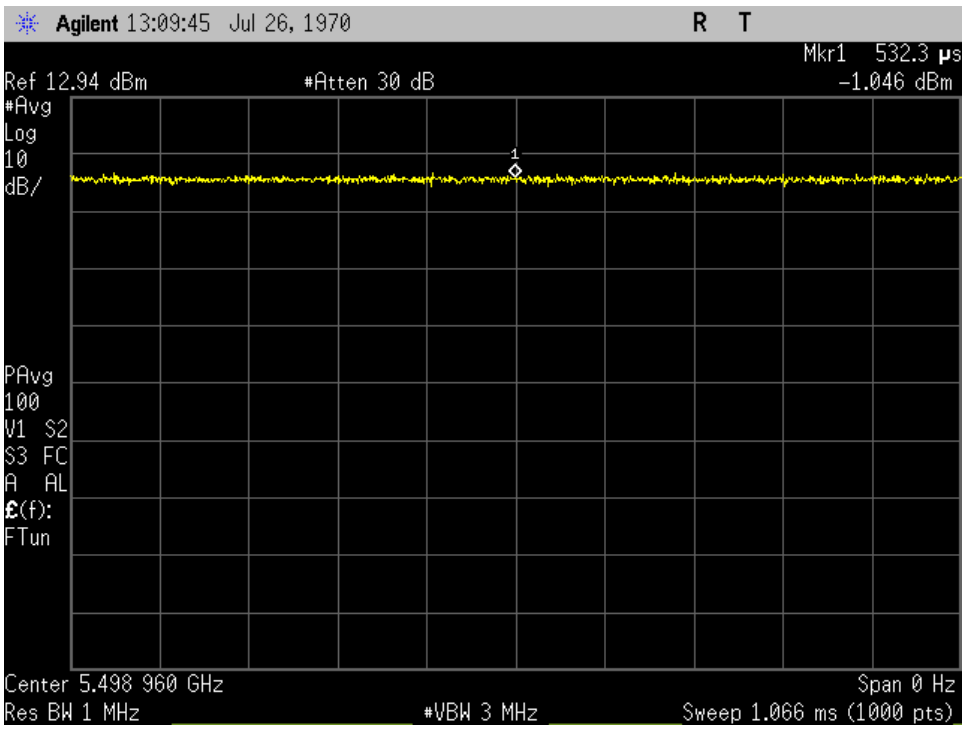


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W56_5500MHz_Low Ch_100_20MHz BW_a-mode_Antenna Power_Port 1

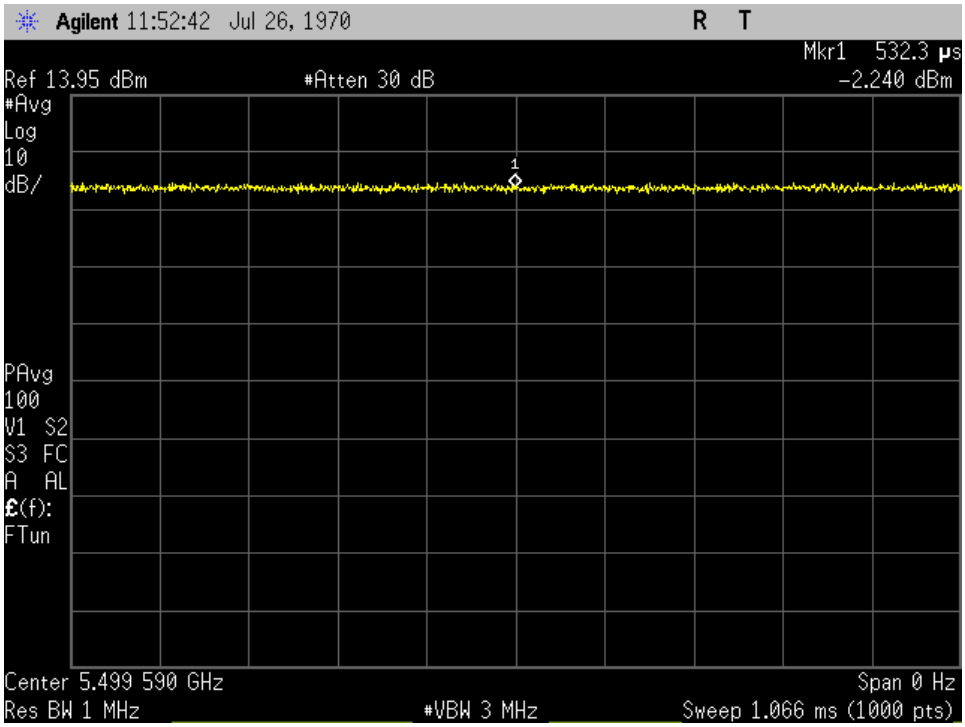


W56_5500MHz_Low Ch_100_20MHz BW_a-mode_Antenna Power_Port 2

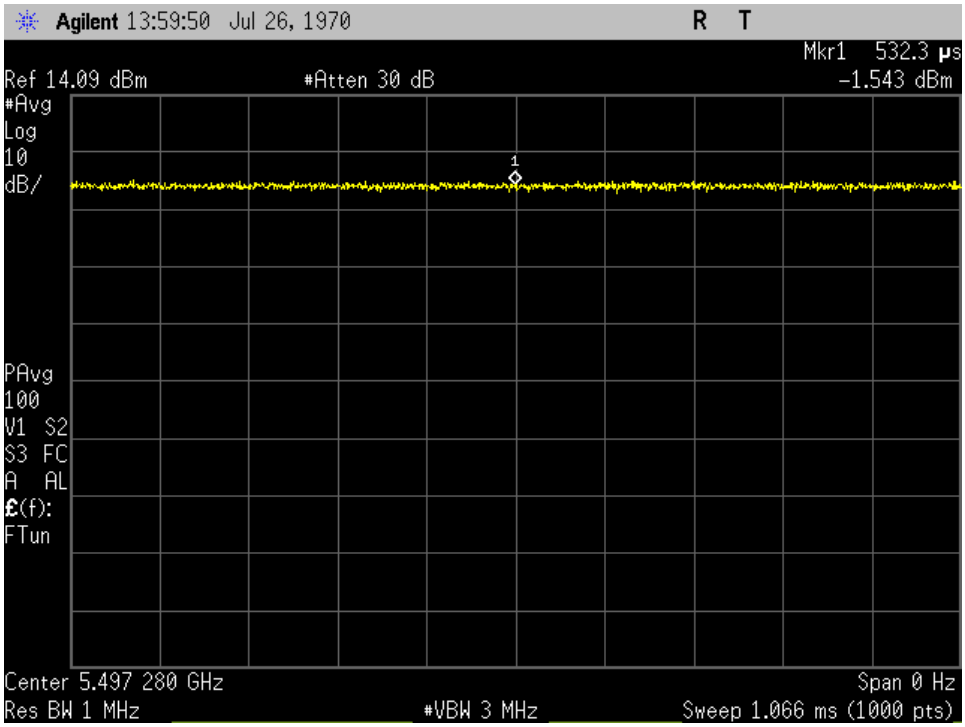


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W56_5500MHz_Low Ch_100_20MHz BW_ac-mode_Antenna Power_Port 1

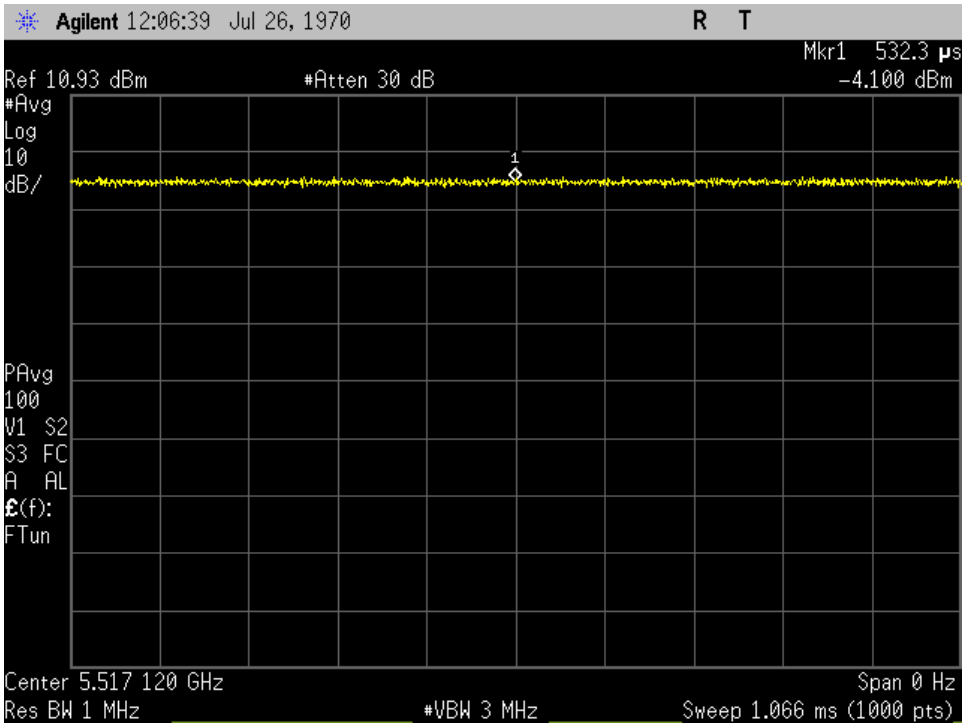


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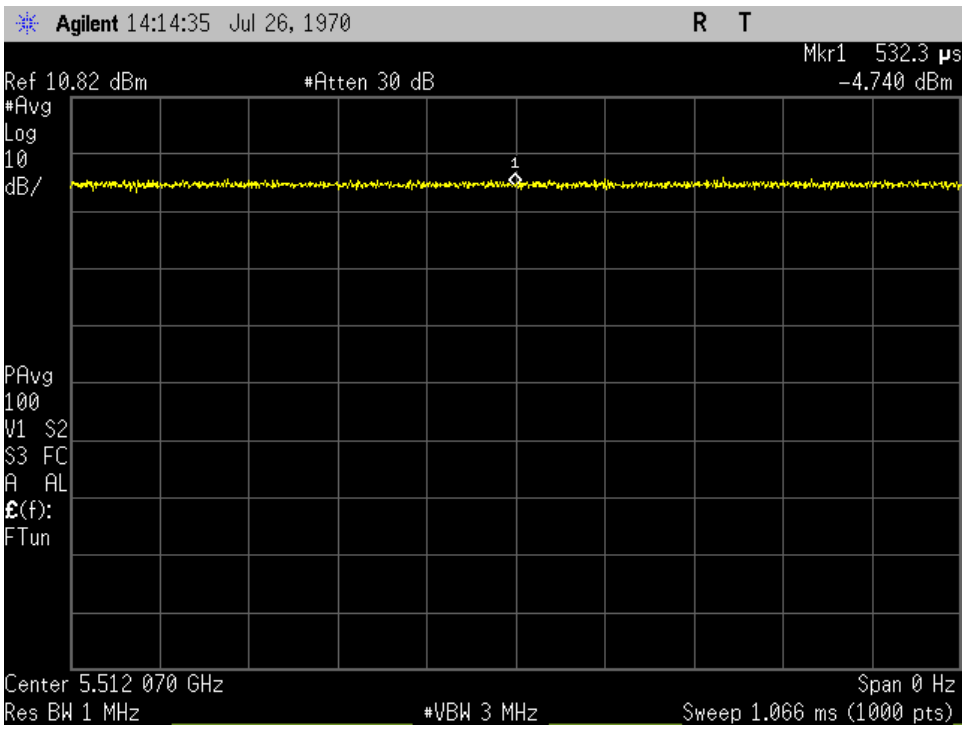


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W56_5510MHz_High Ch_102_40MHz BW_n-mode_Antenna Power_Port 1

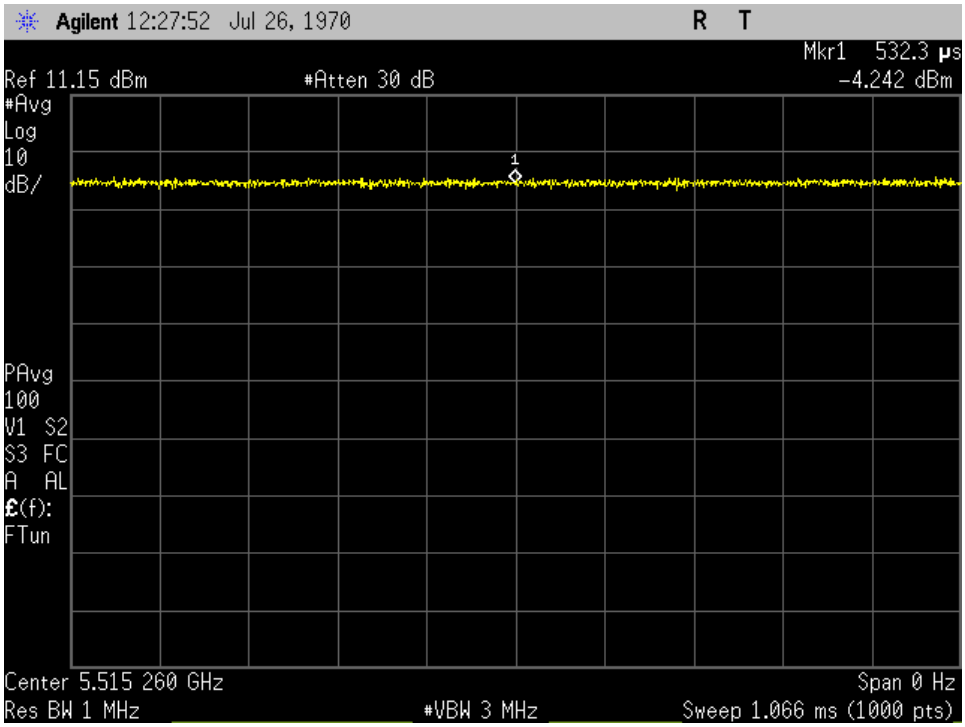


W56_5510MHz_High Ch_102_40MHz BW_n-mode_Antenna Power_Port 2

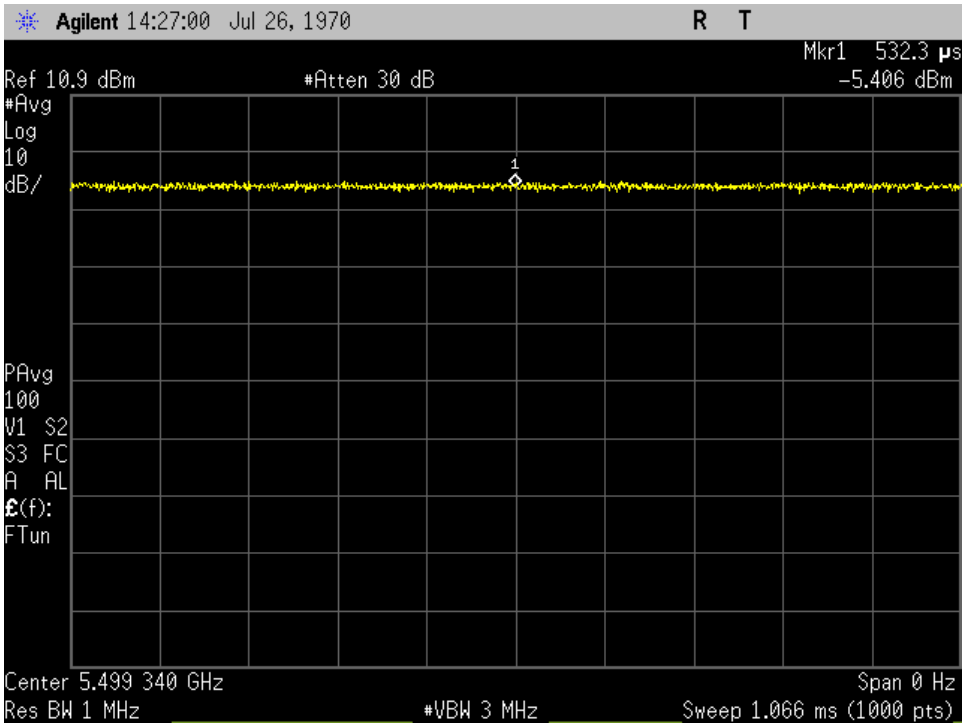


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W56_5510MHz_Mid Ch_102_40MHz BW_ac-mode_Antenna Power_Port 1

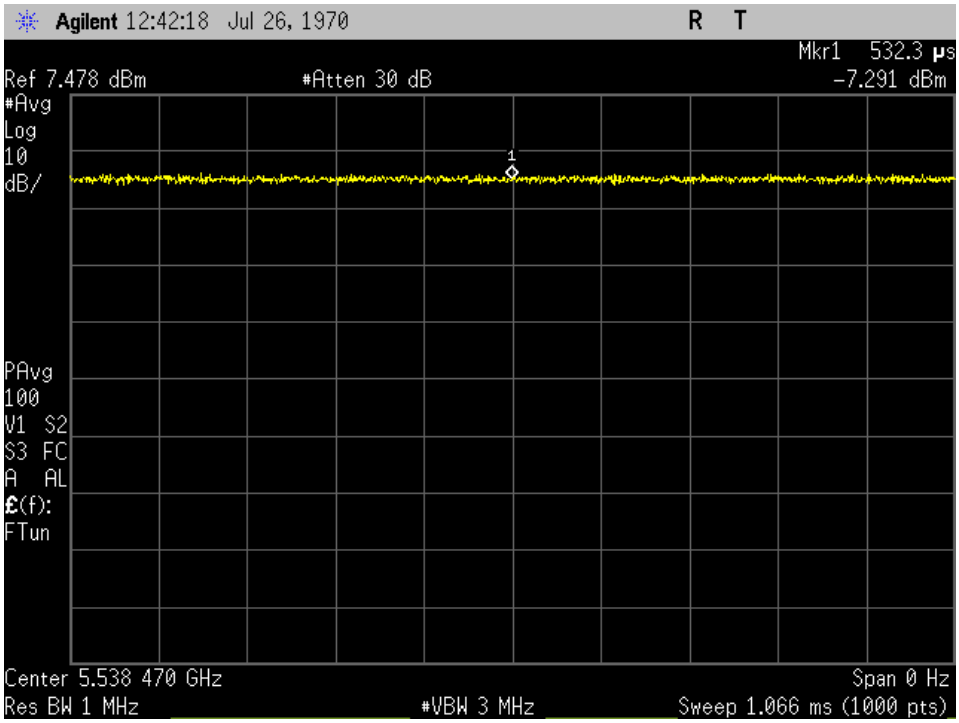


W56_5510MHz_Mid Ch_102_40MHz BW_ac-mode_Antenna Power_Port 2

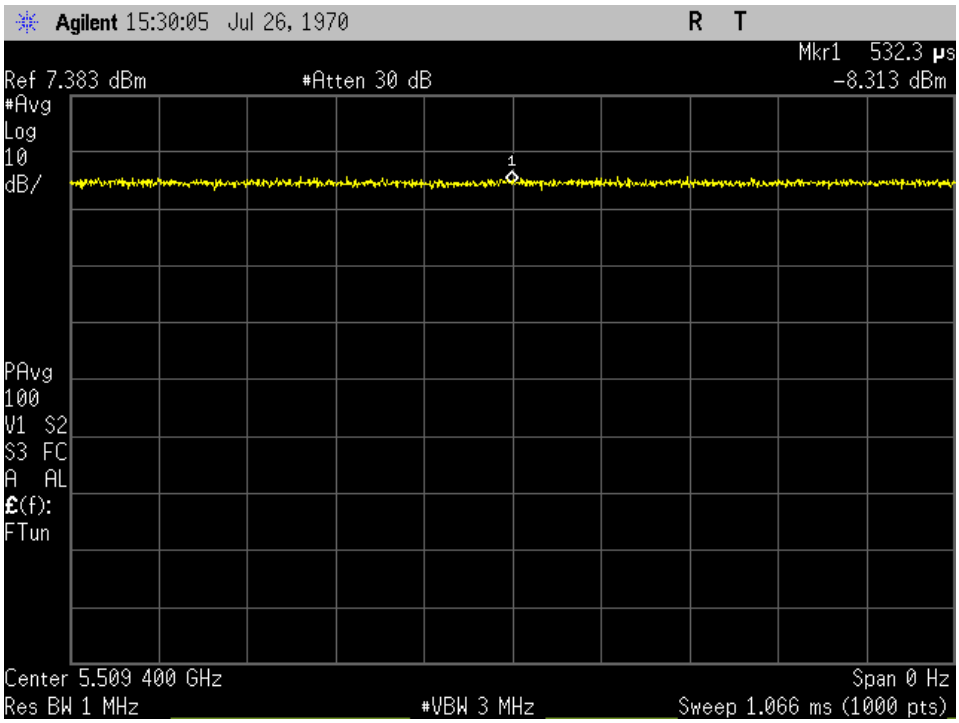


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W56_5530MHz_Low Ch_106_80MHz BW_ac-mode_Antenna Power_Port 1

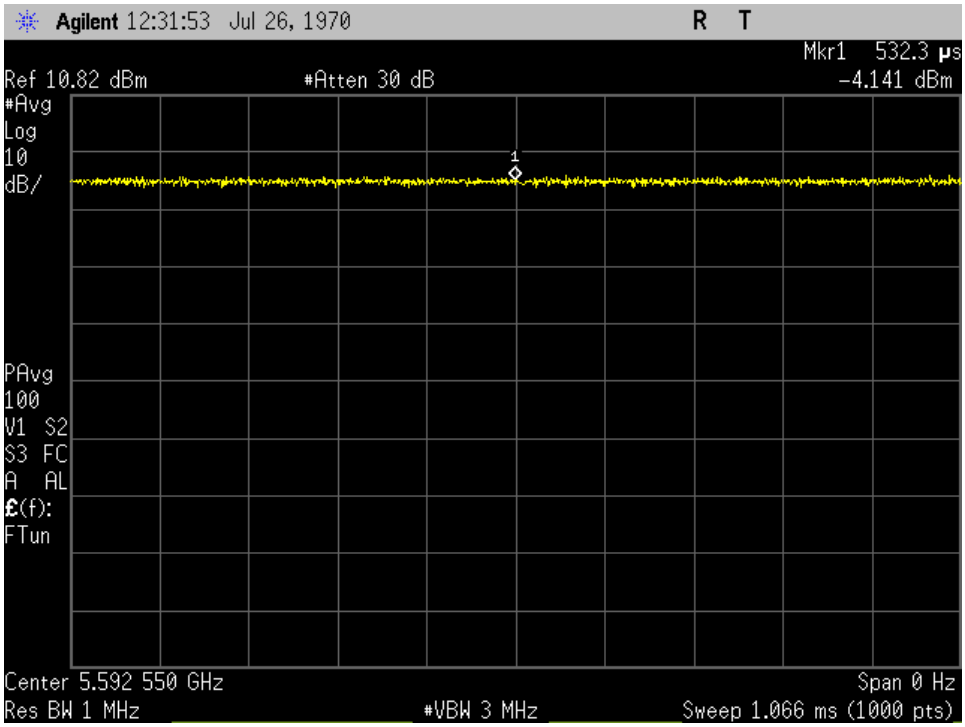


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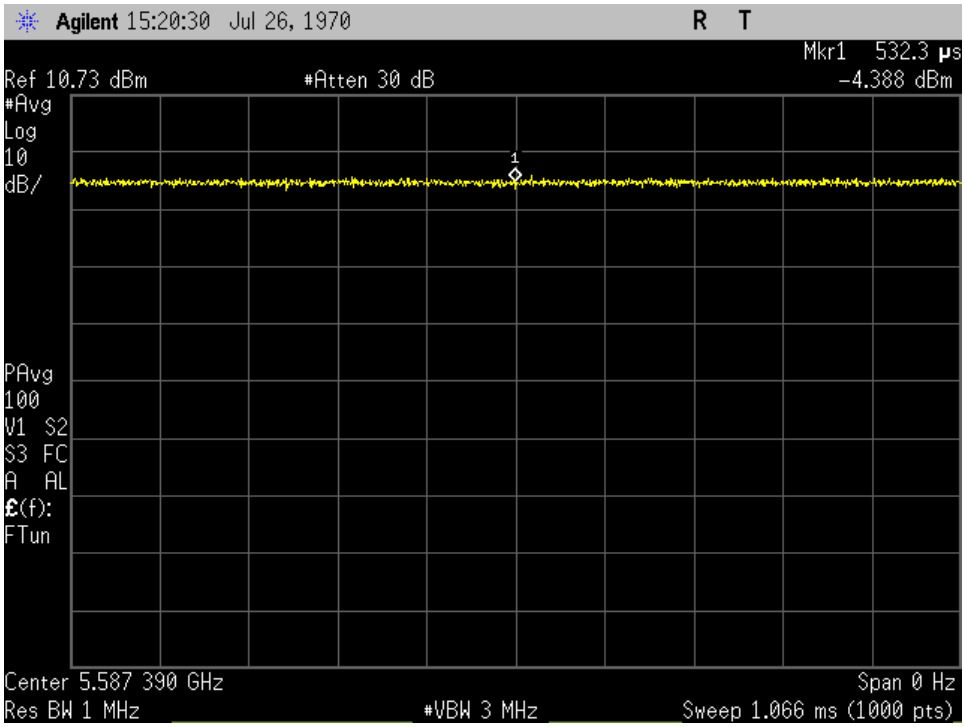


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W56_5590MHz_High Ch_118_40MHz BW_ac-mode_Antenna Power_Port 1

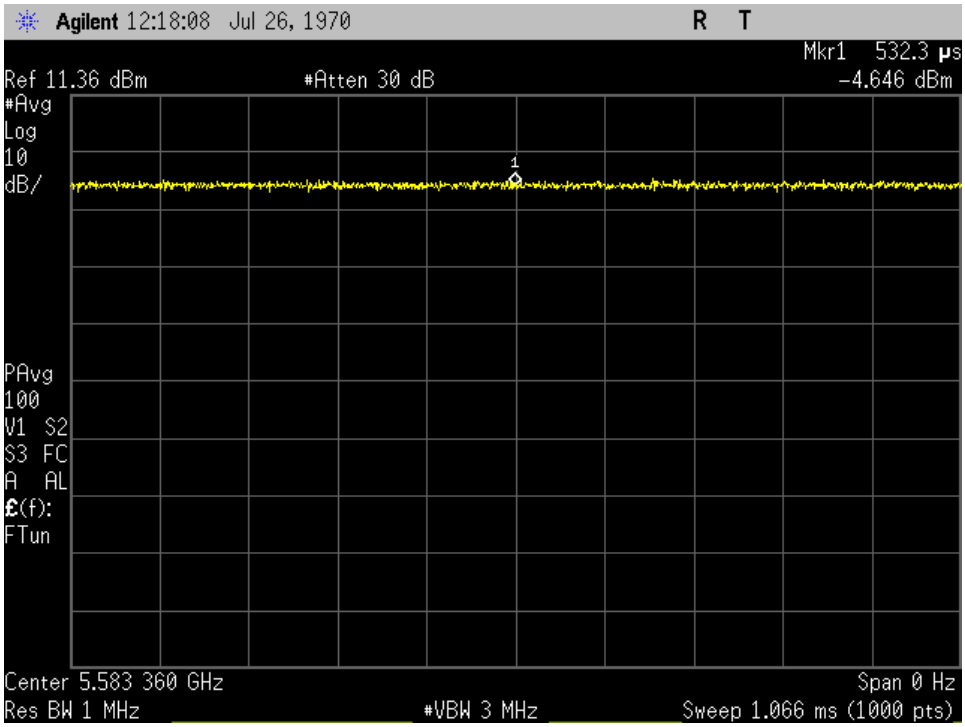


W56_5590MHz_High Ch_118_40MHz BW_ac-mode_Antenna Power_Port 2

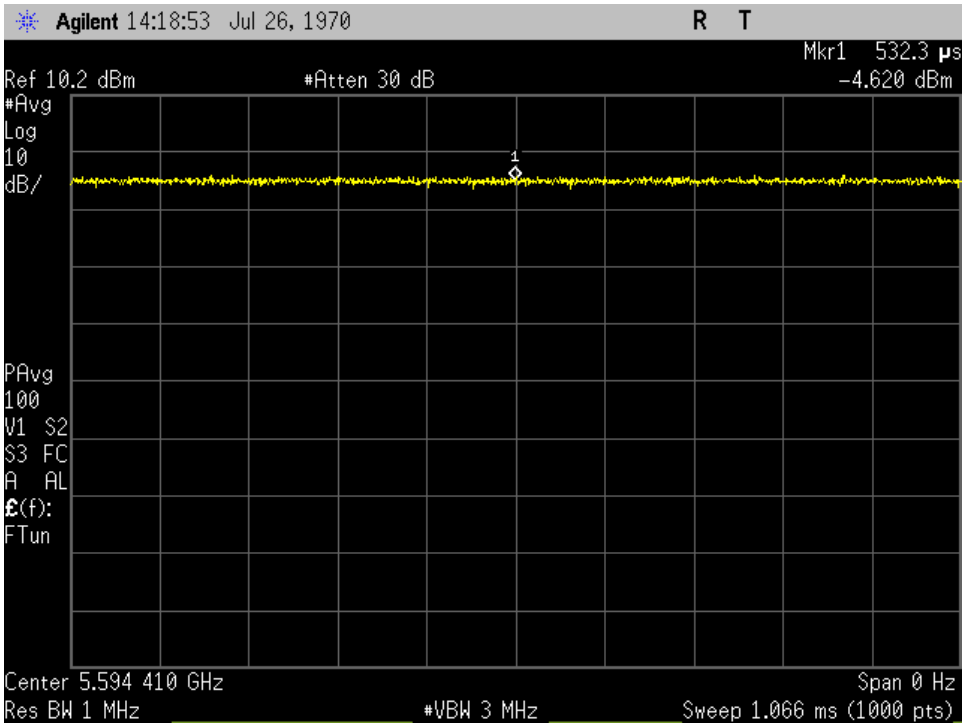


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W56_5590MHz_High Ch_118_40MHz BW_n-mode_Antenna Power_Port 1

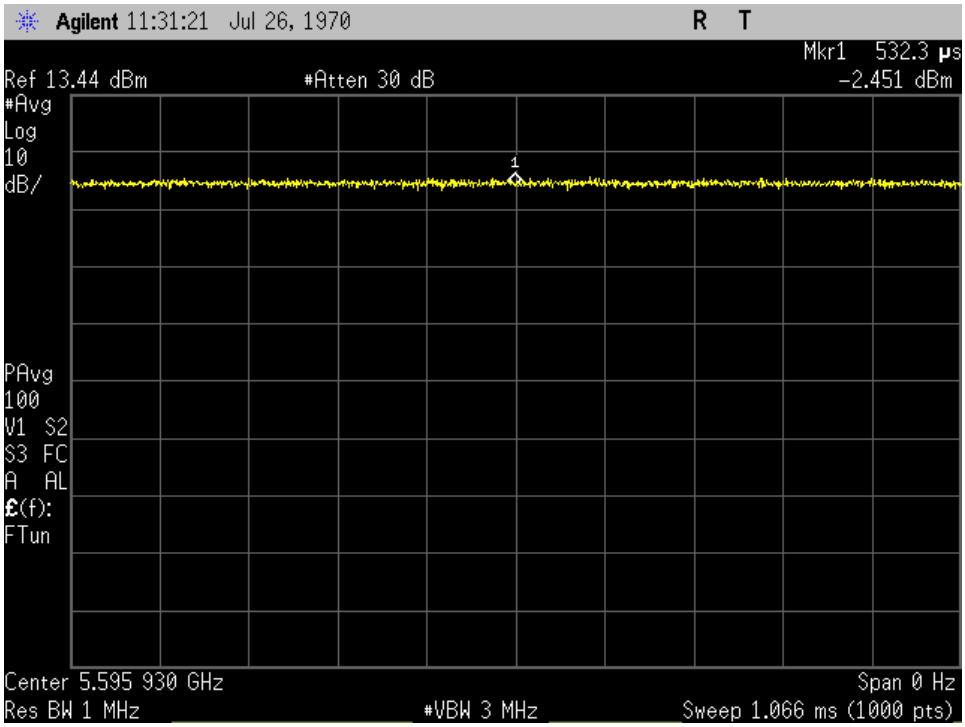


W56_5590MHz_High Ch_118_40MHz BW_n-mode_Antenna Power_Port 2

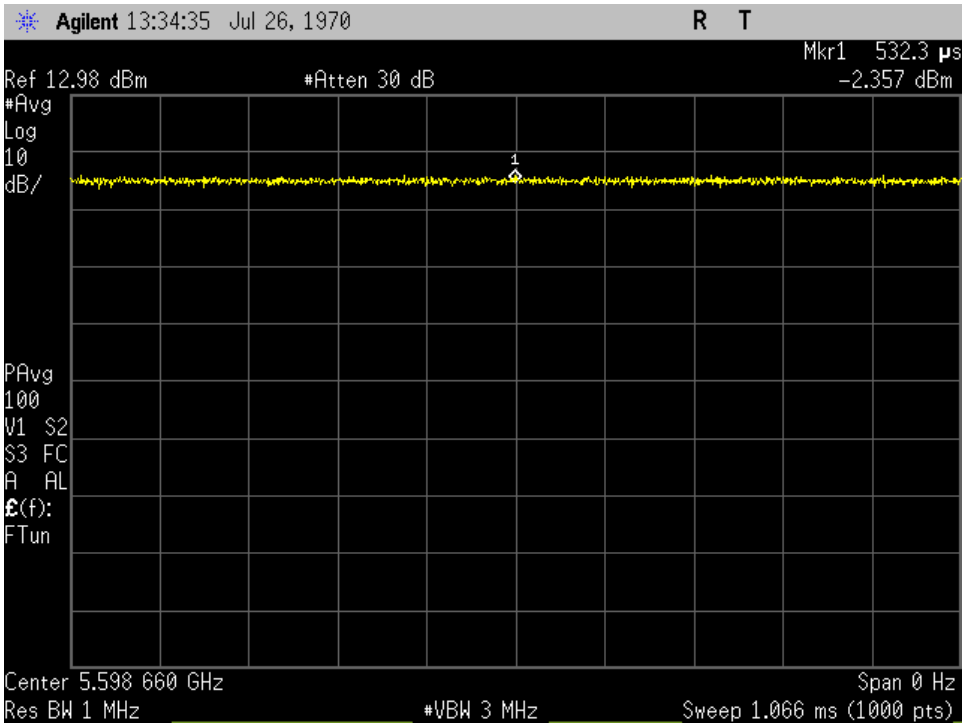


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W56_5600MHz_High Ch_120_20MHz BW_n-mode_Antenna Power_Port 1

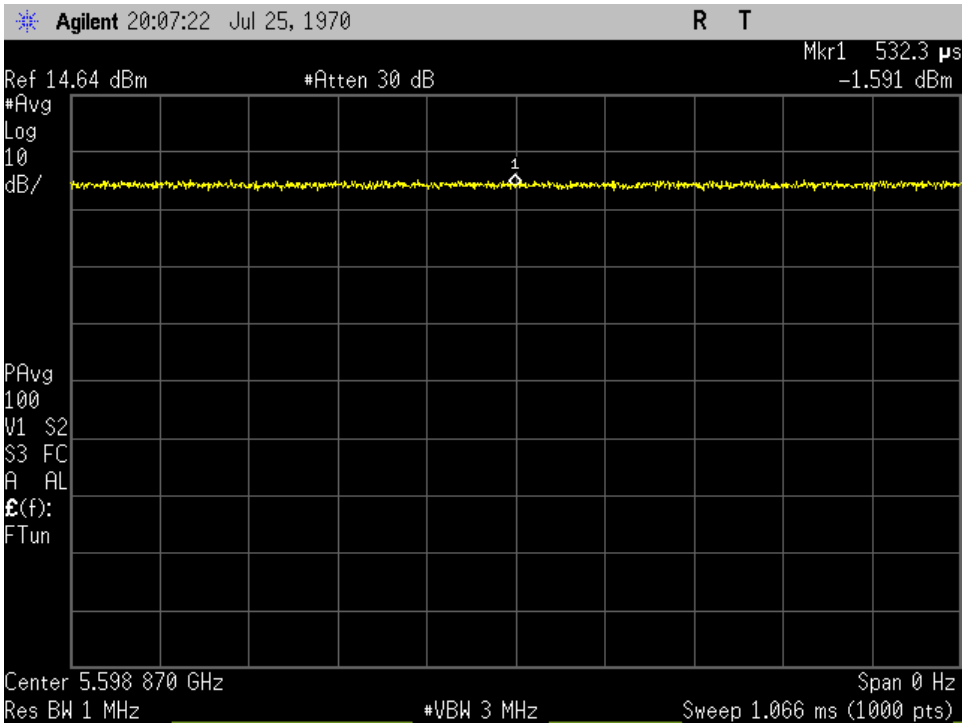


W56_5600MHz_High Ch_120_20MHz BW_n-mode_Antenna Power_Port 2

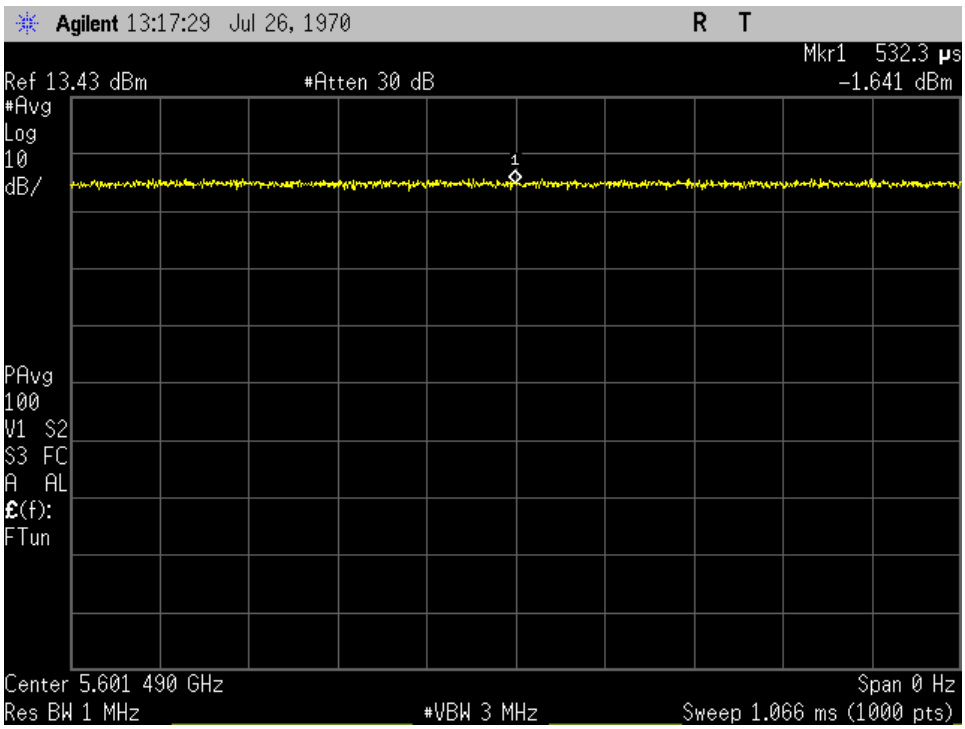


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W56_5600MHz_Mid Ch_120_20MHz BW_a-mode_Antenna Power_Port 1

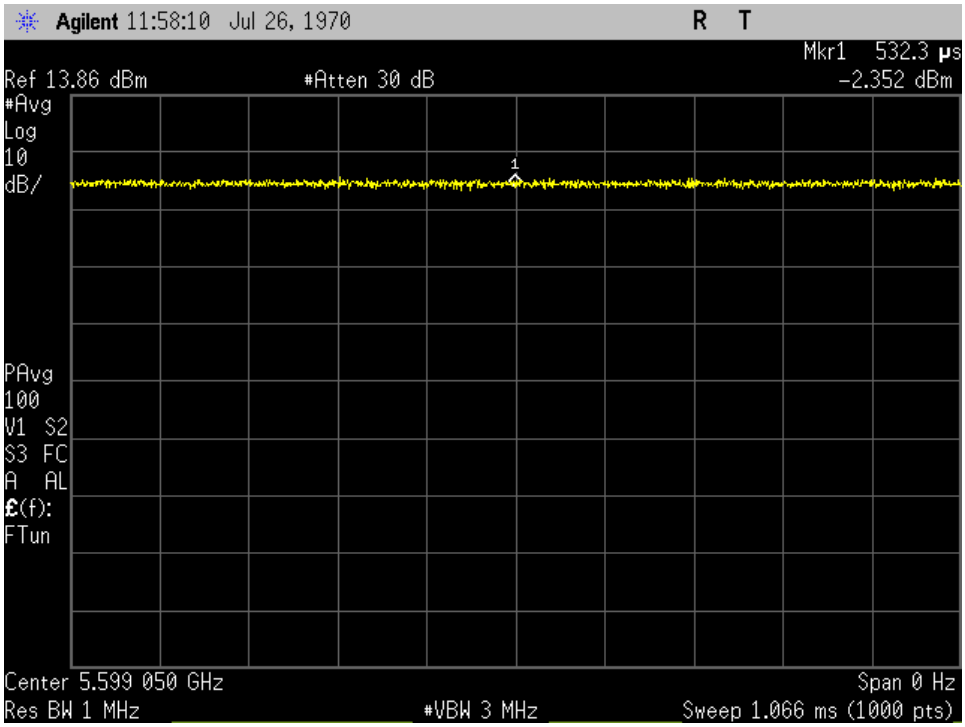


W56_5600MHz_Mid Ch_120_20MHz BW_a-mode_Antenna Power_Port 2

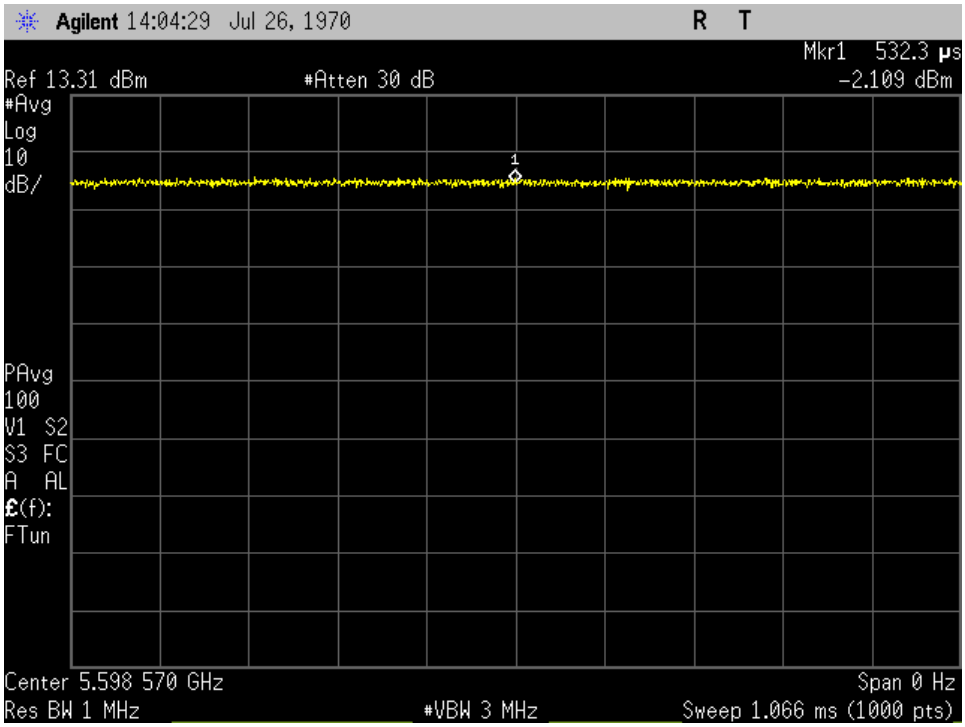


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W56_5600MHz_Mid Ch_120_20MHz BW_ac-mode_Antenna Power_Port 1

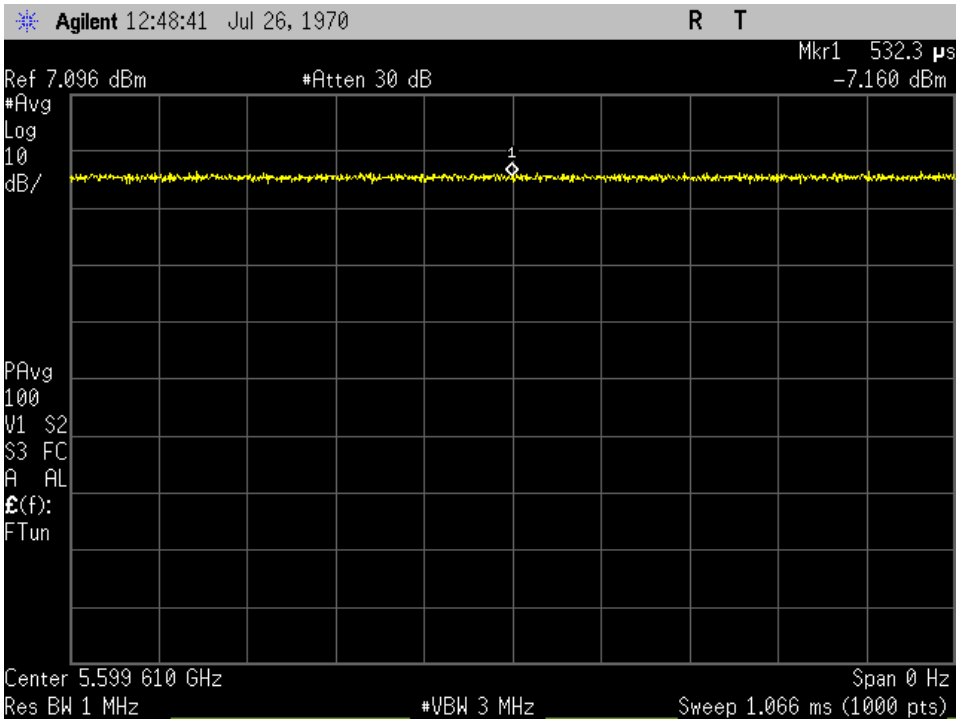


W56_5600MHz_Mid Ch_120_20MHz BW_ac-mode_Antenna Power_Port 2

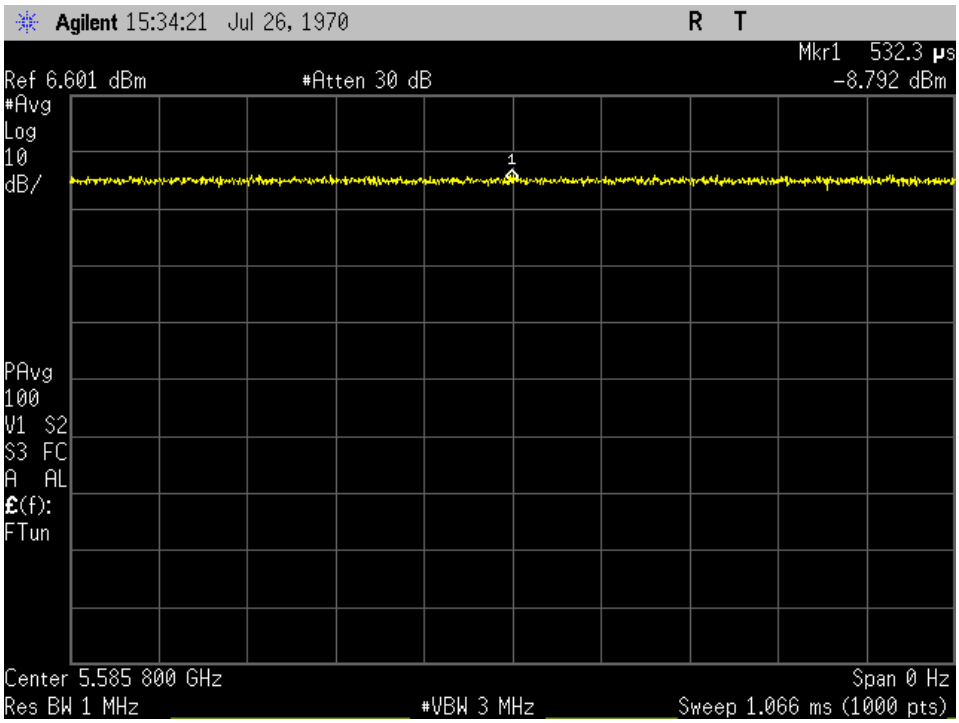


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W56_5610MHz_Mid Ch_122_80MHz BW_ac-mode_Antenna Power_Port 1

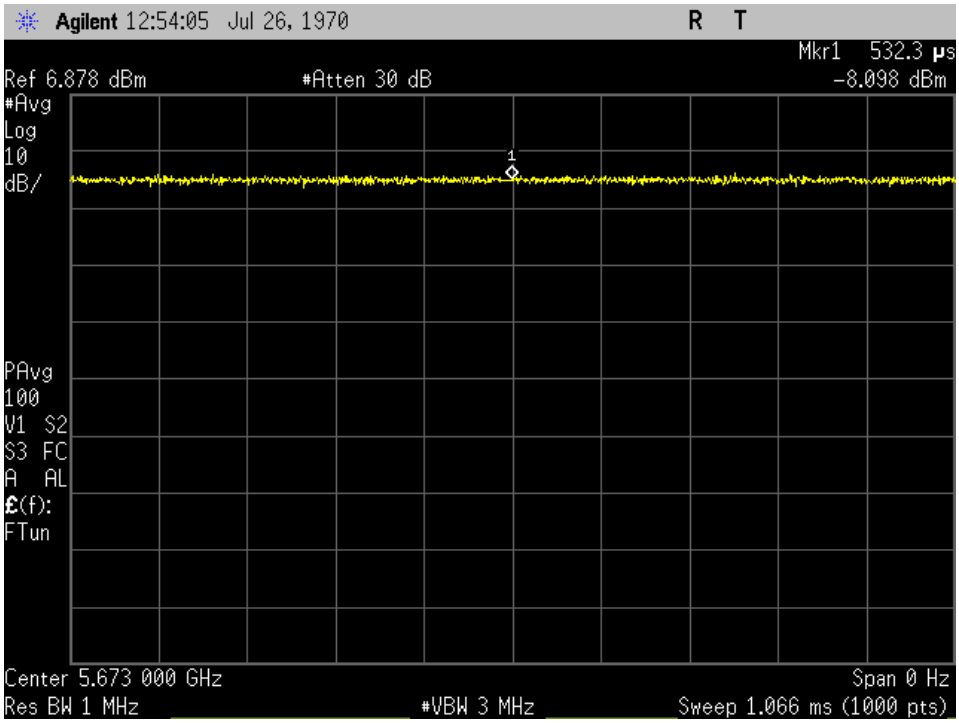


W56_5610MHz_Mid Ch_122_80MHz BW_ac-mode_Antenna Power_Port 2

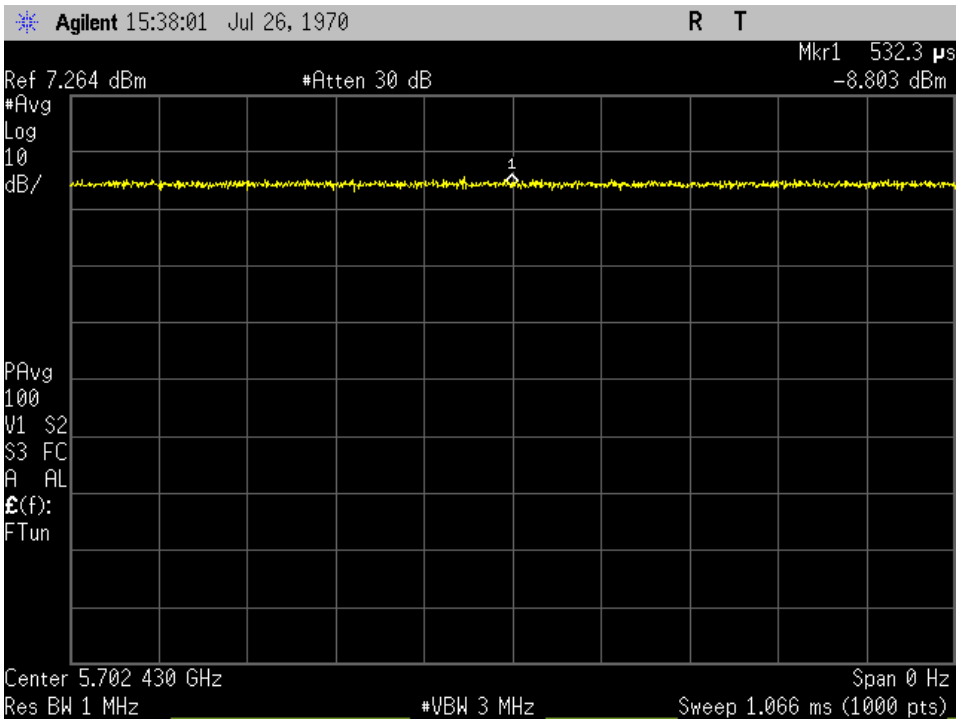


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W56_5690MHz_High Ch_138_80MHz BW_ac-mode_Antenna Power_Port 1

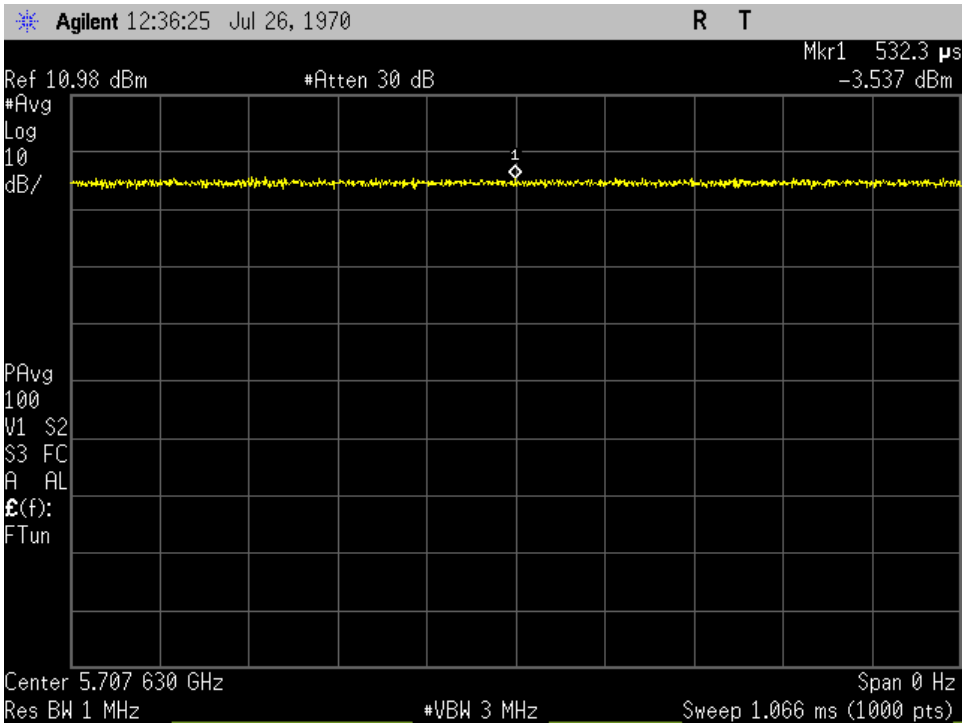


W56_5690MHz_High Ch_138_80MHz BW_ac-mode_Antenna Power_Port 2

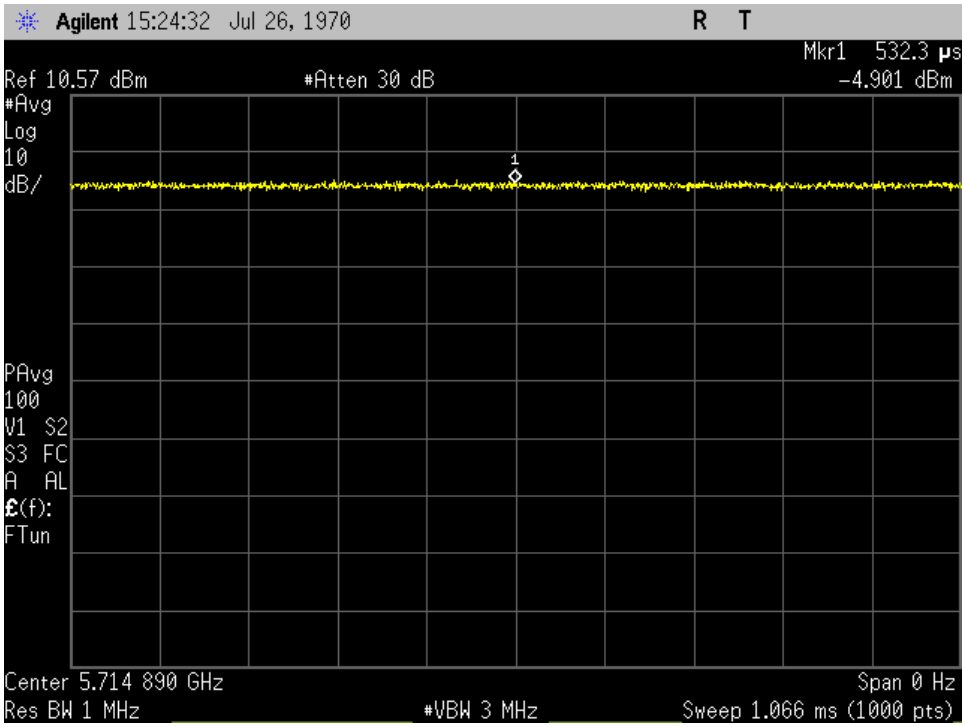


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W56_5710MHz_High Ch_142_40MHz BW_ac-mode_Antenna Power_Port 1

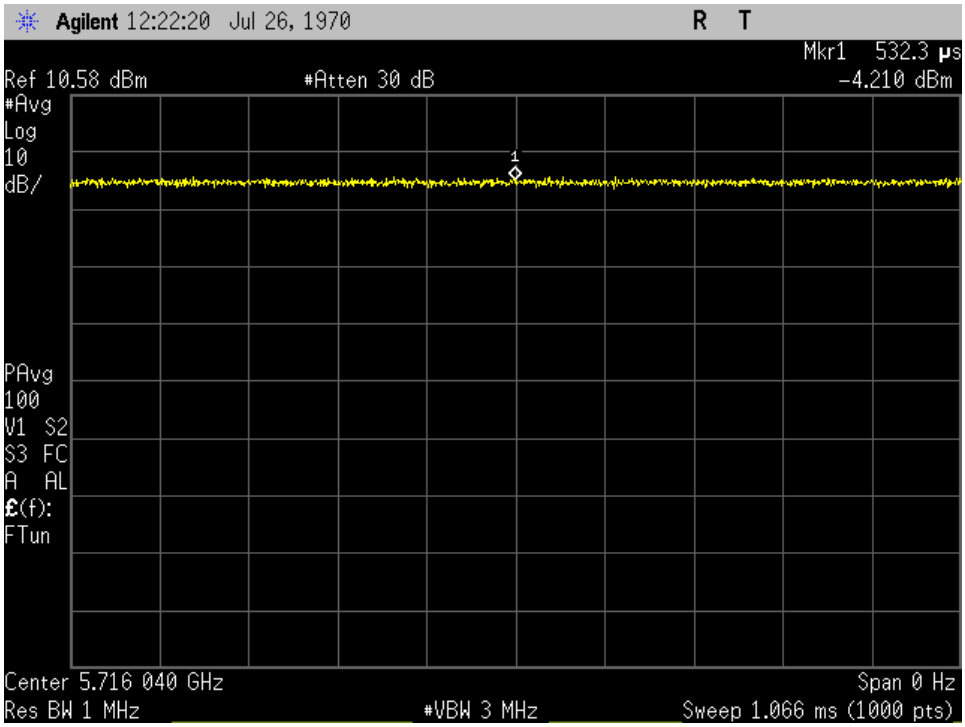


W56_5710MHz_High Ch_142_40MHz BW_ac-mode_Antenna Power_Port 2

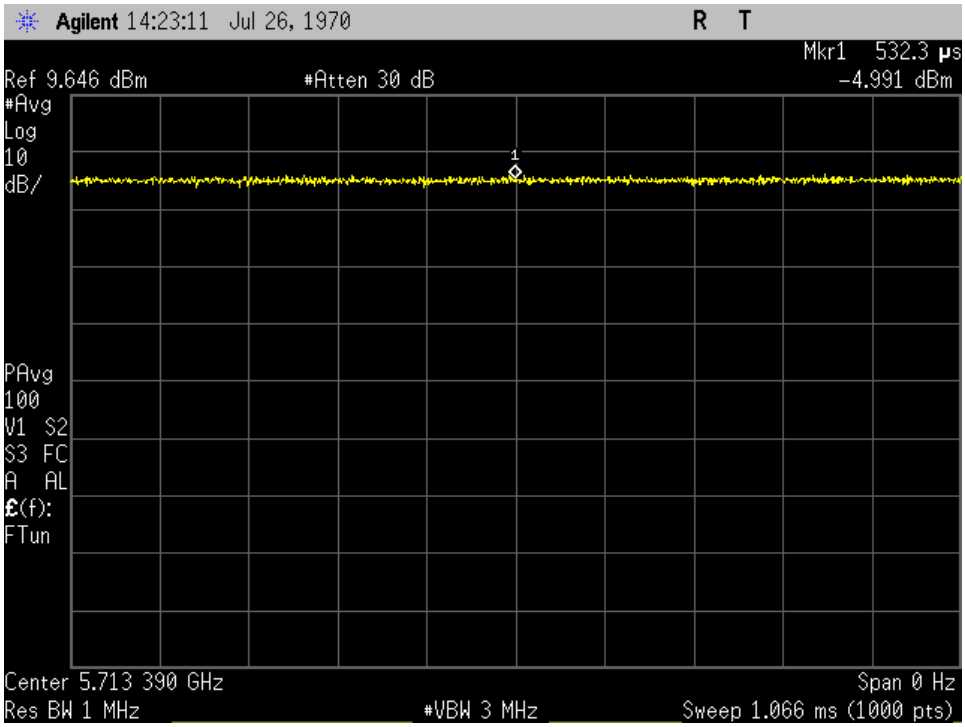


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W56_5710MHz_Low Ch_142_40MHz BW_n-mode_Antenna Power_Port 1

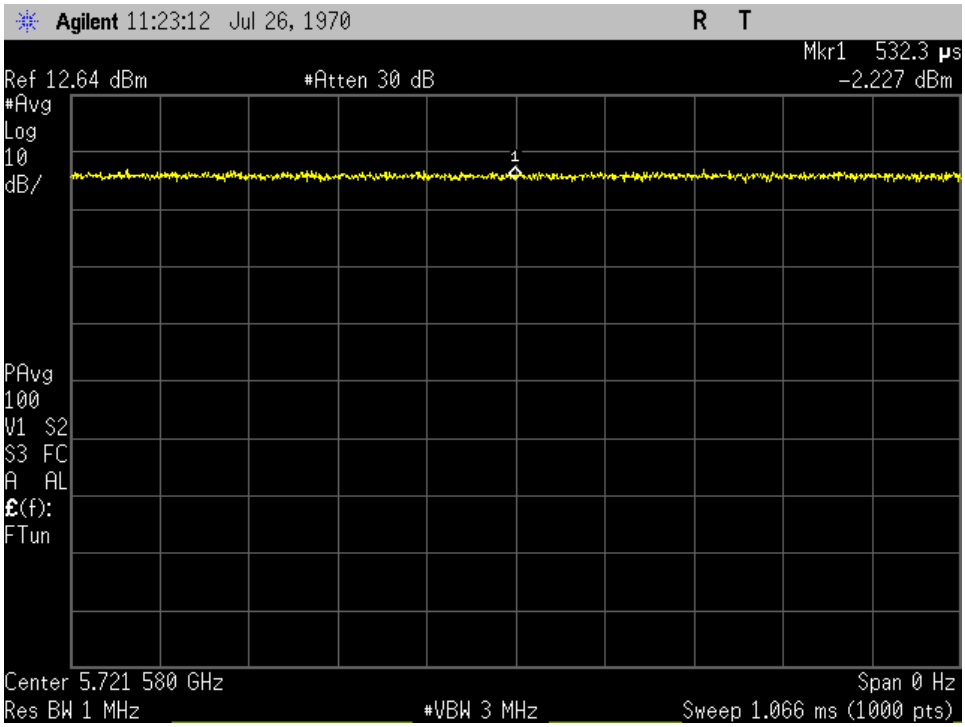


W56_5710MHz_Low Ch_142_40MHz BW_n-mode_Antenna Power_Port 2

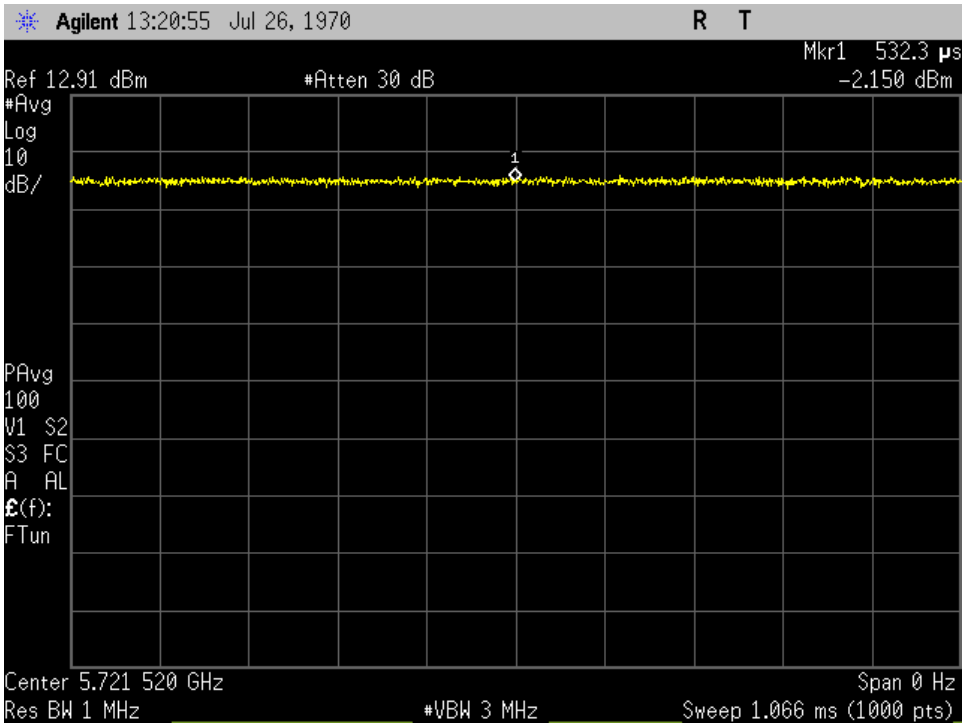


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W56_5720MHz_High Ch_144_20MHz BW_a-mode_Antenna Power_Port 1

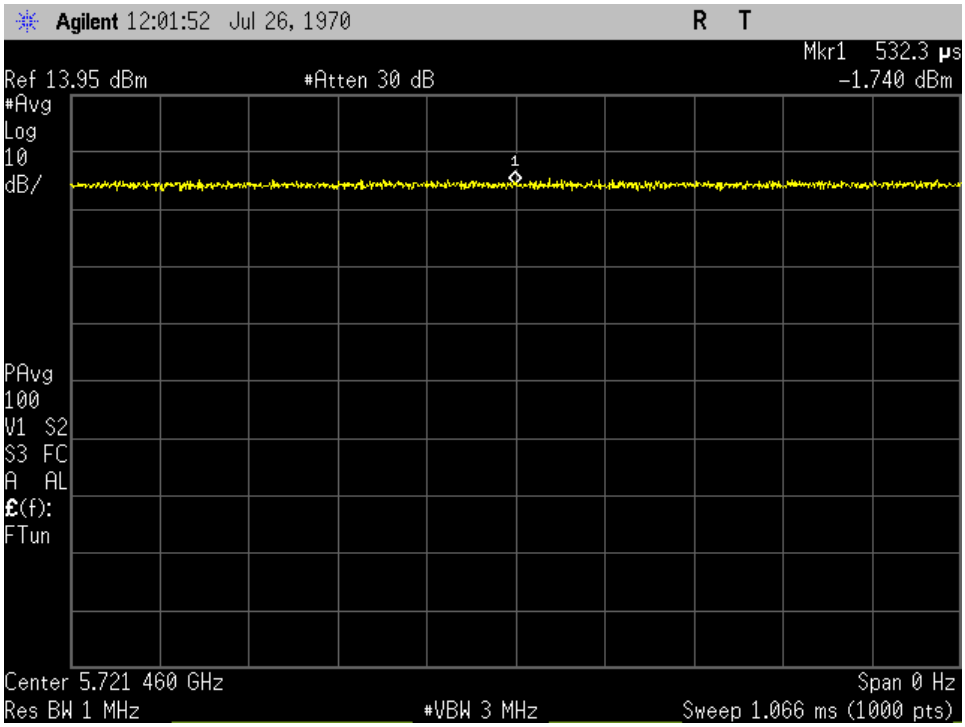


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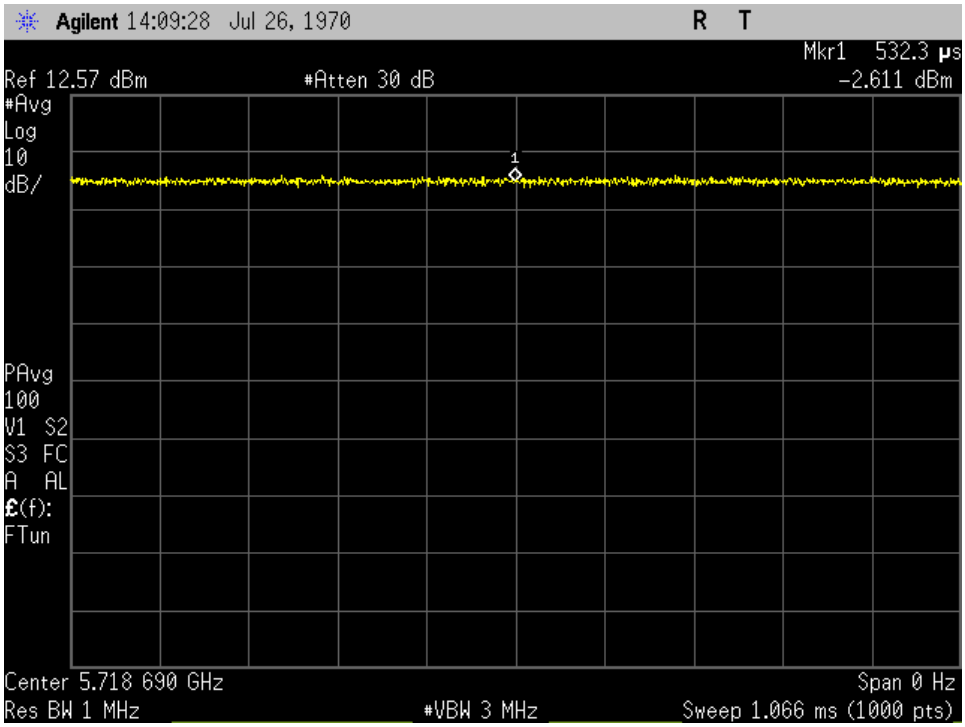


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W56_5720MHz_High Ch_144_20MHz BW_ac-mode_Antenna Power_Port 1

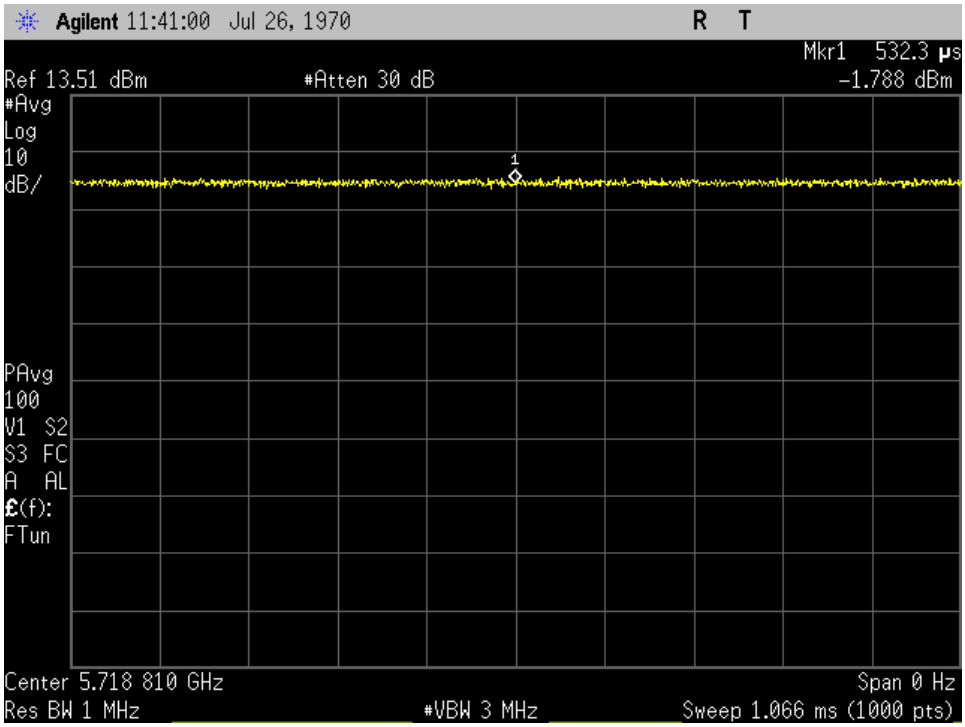


W56_5720MHz_High Ch_144_20MHz BW_ac-mode_Antenna Power_Port 2

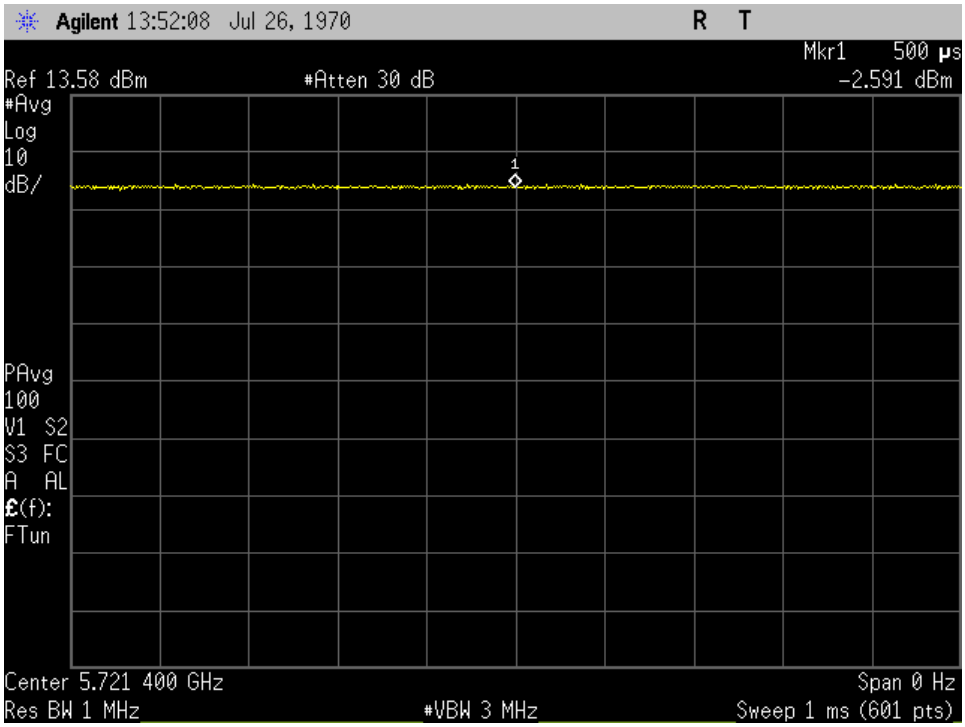


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W56_5720MHz_Low Ch_144_20MHz BW_n-mode_Antenna Power_Port 1

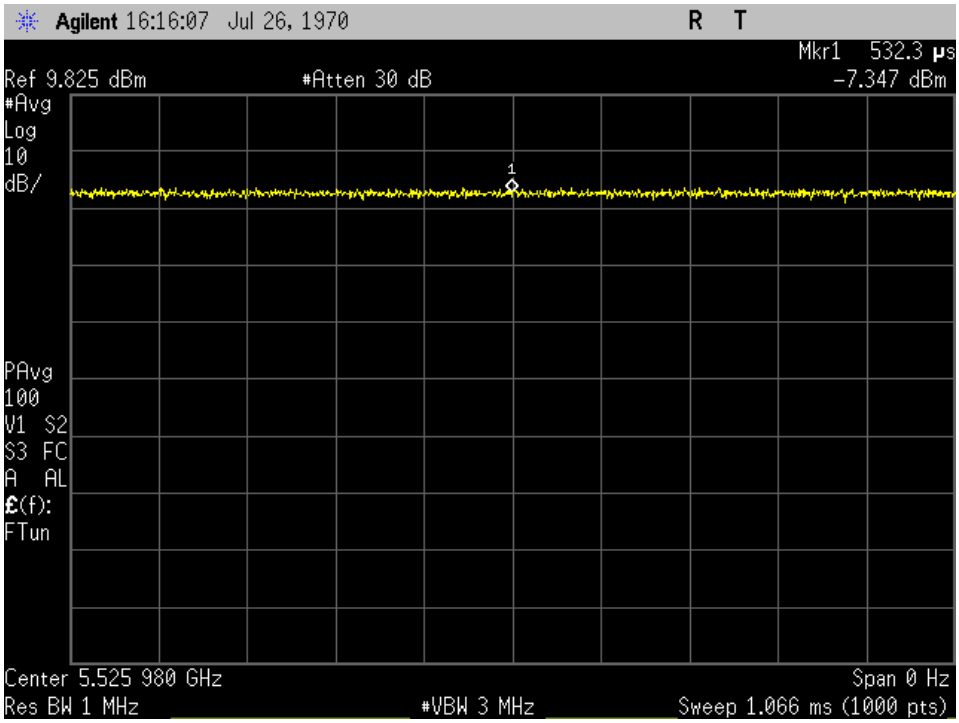


W56_5720MHz_Low Ch_144_20MHz BW_n-mode_Antenna Power_Port 2

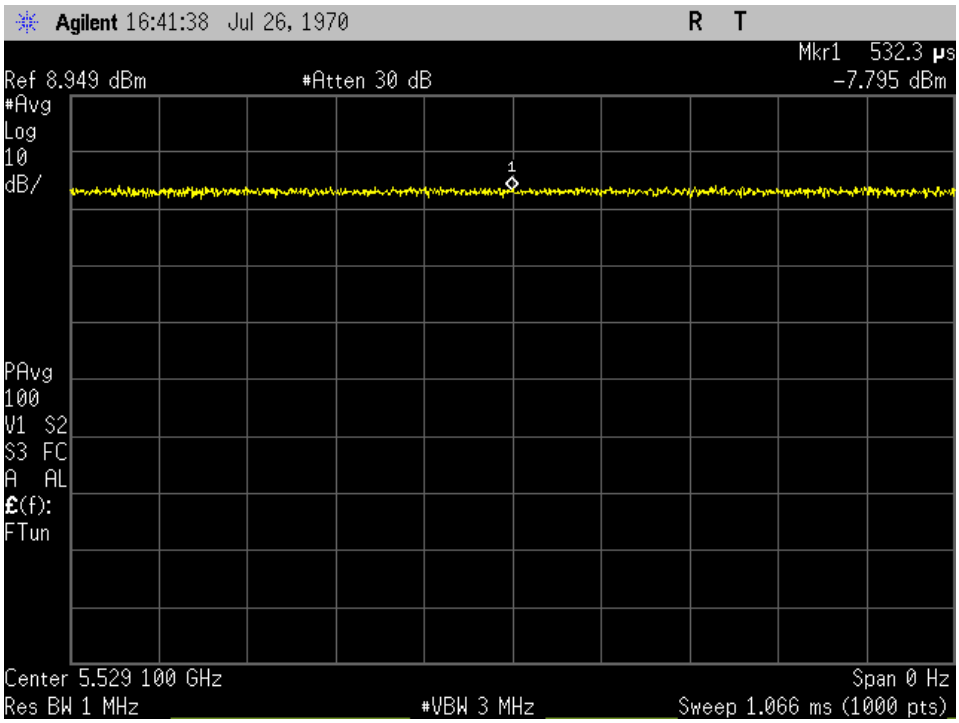


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W56_5530MHz_Low Ch_106_80MHz BW_ax-mode_Antenna Power_Port 1

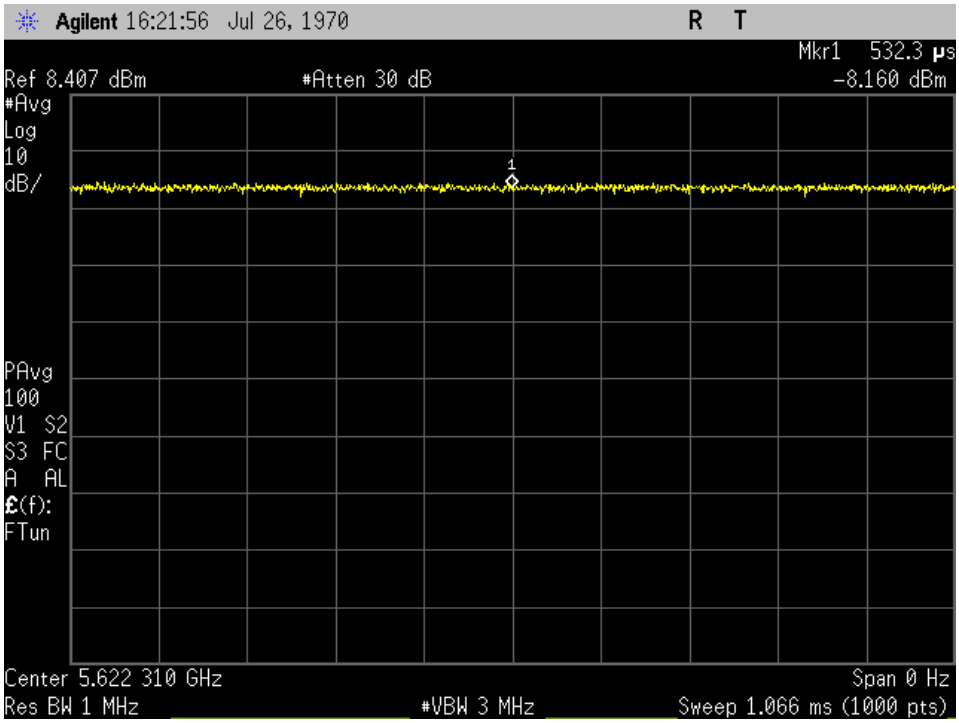


W56_5530MHz_Low Ch_106_80MHz BW_ax-mode_Antenna Power_Port 2

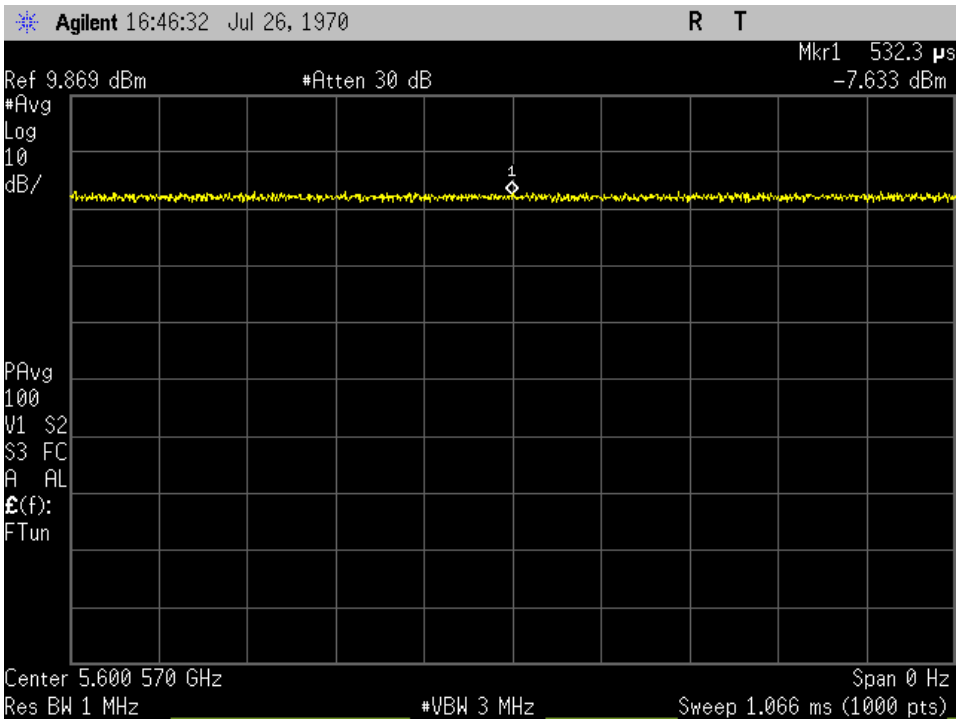


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W56_5610MHz_Mid Ch_122_80MHz BW_ax-mode_Antenna Power_Port 1

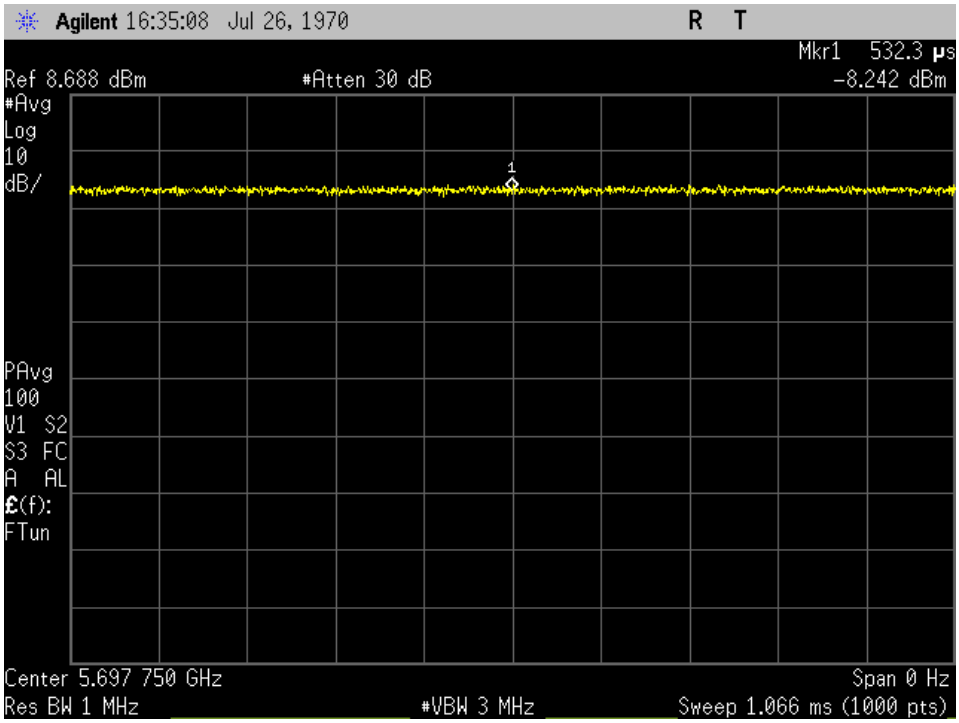


W56_5610MHz_Mid Ch_122_80MHz BW_ax-mode_Antenna Power_Port 2

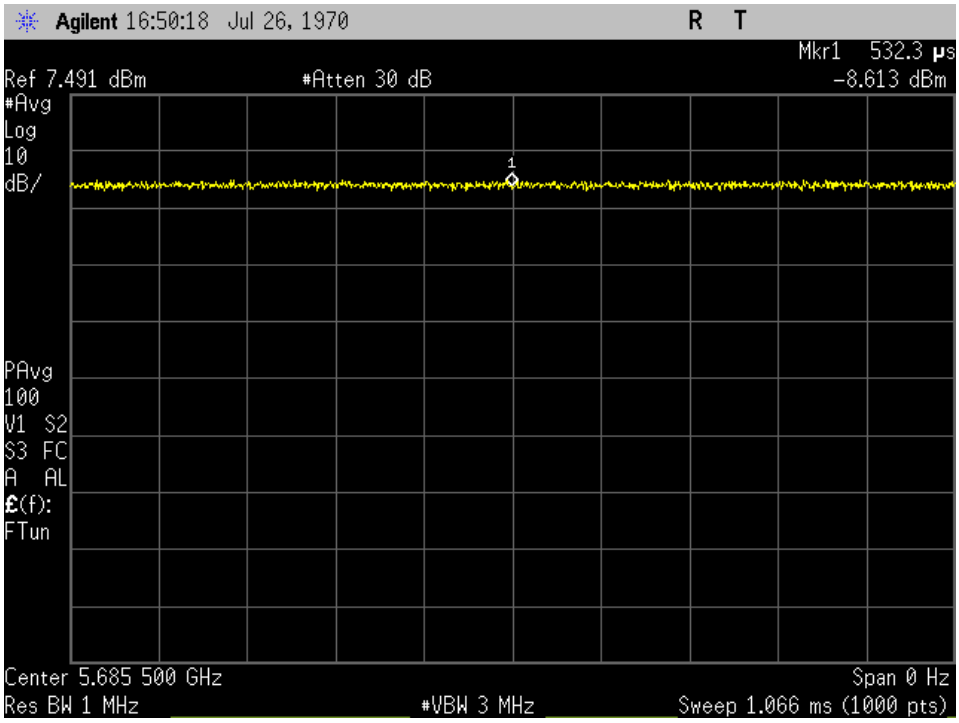


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W56_5690MHz_High Ch_138_80MHz BW_ax-mode_Antenna Power_Port 1



W56_5690MHz_High Ch_138_80MHz BW_ax-mode_Antenna Power_Port 2

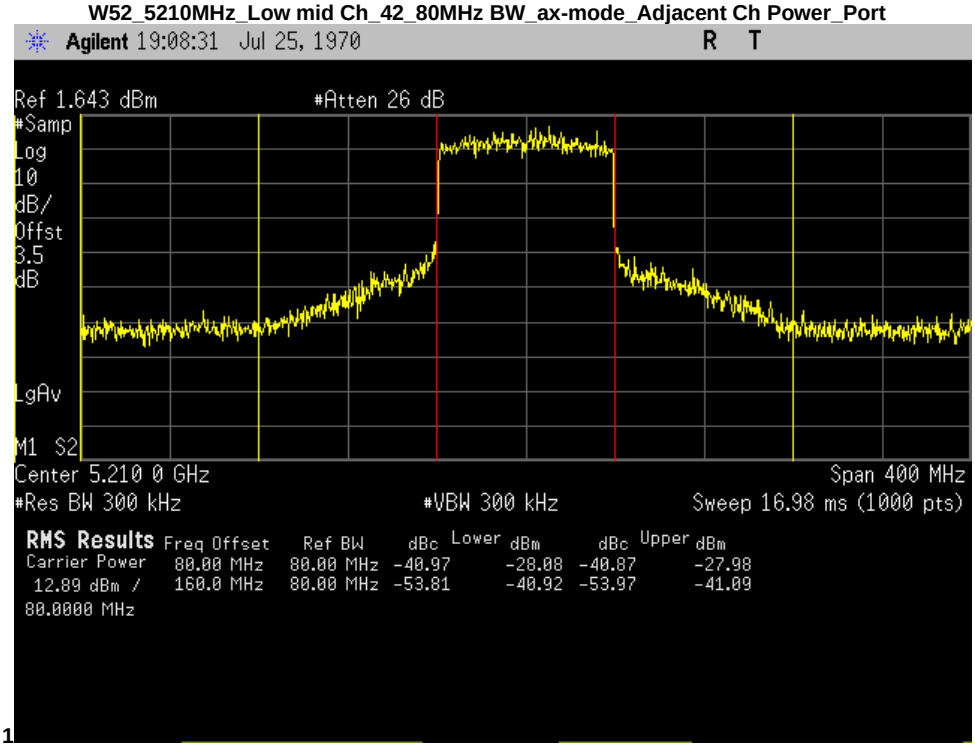


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Adjacent Channel Power Plots (Band W52)

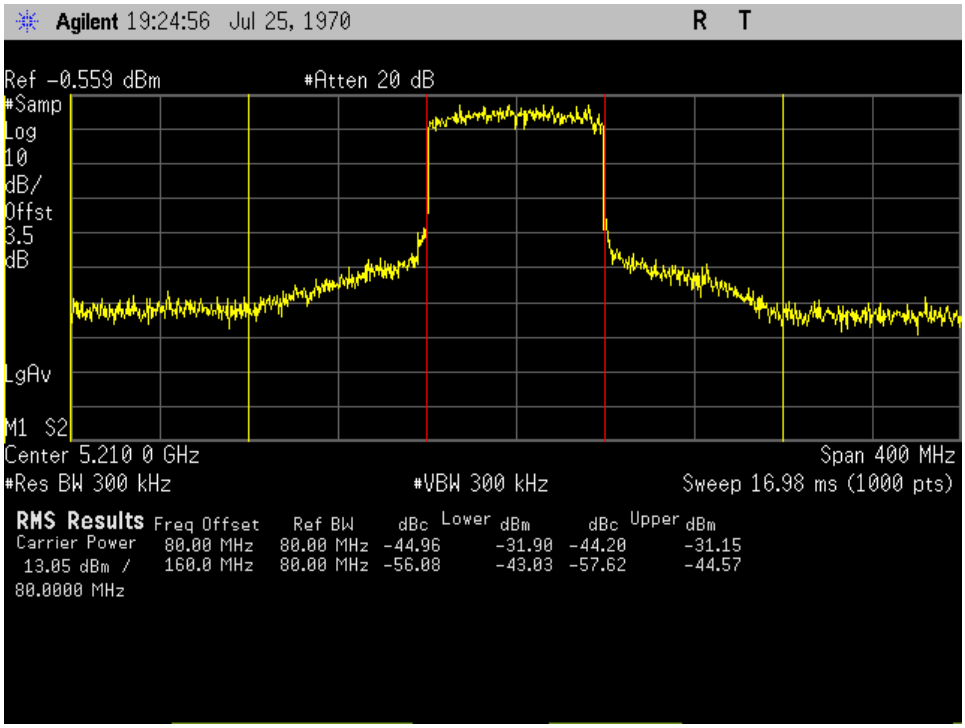
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W52_5210MHz_Low mid Ch_42_80MHz BW_ax-mode_Adjacent Ch Power_Port



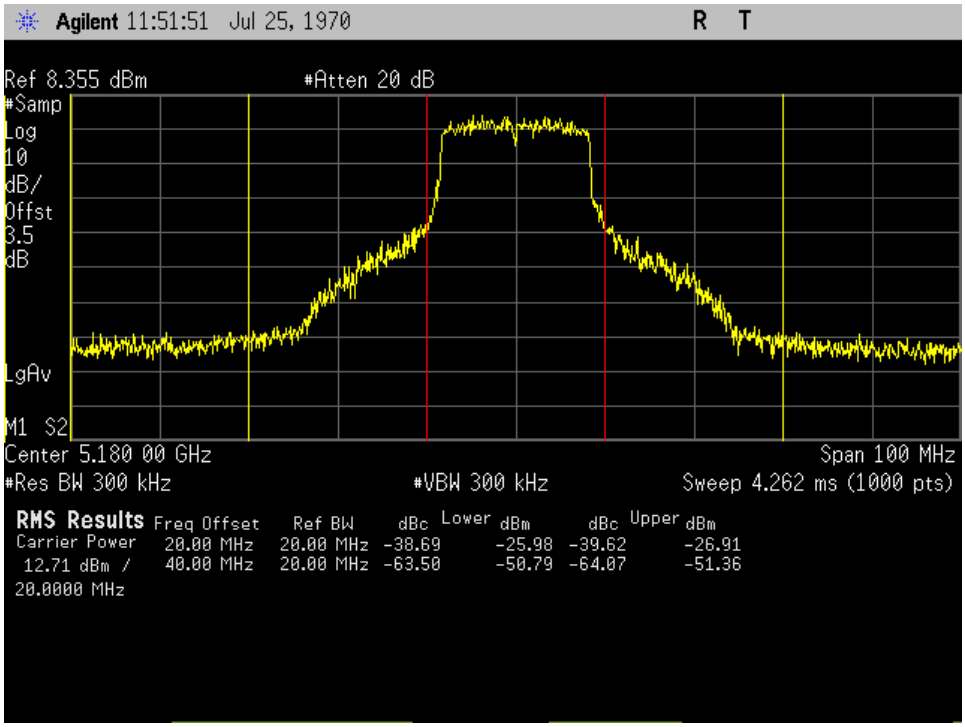
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W52_5210MHz_Low mid Ch_42_80MHz BW_ax-mode_Adjacent Ch Power_Port 2

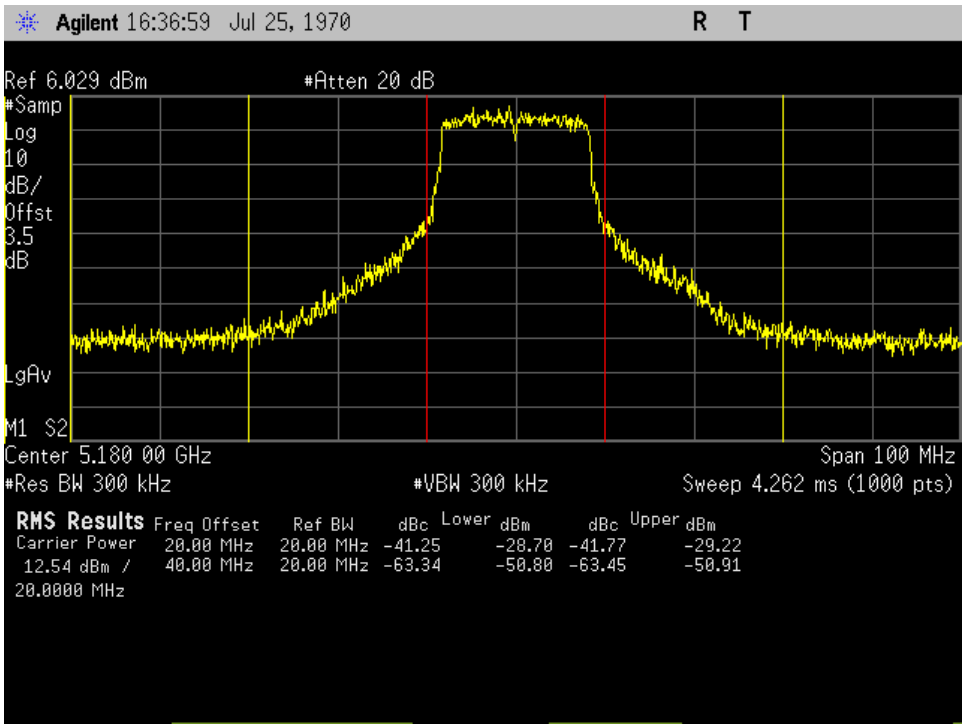


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W52_5180MHz_Low Ch_36_20MHz BW_a-mode_Adjacent Ch Power_Port 1

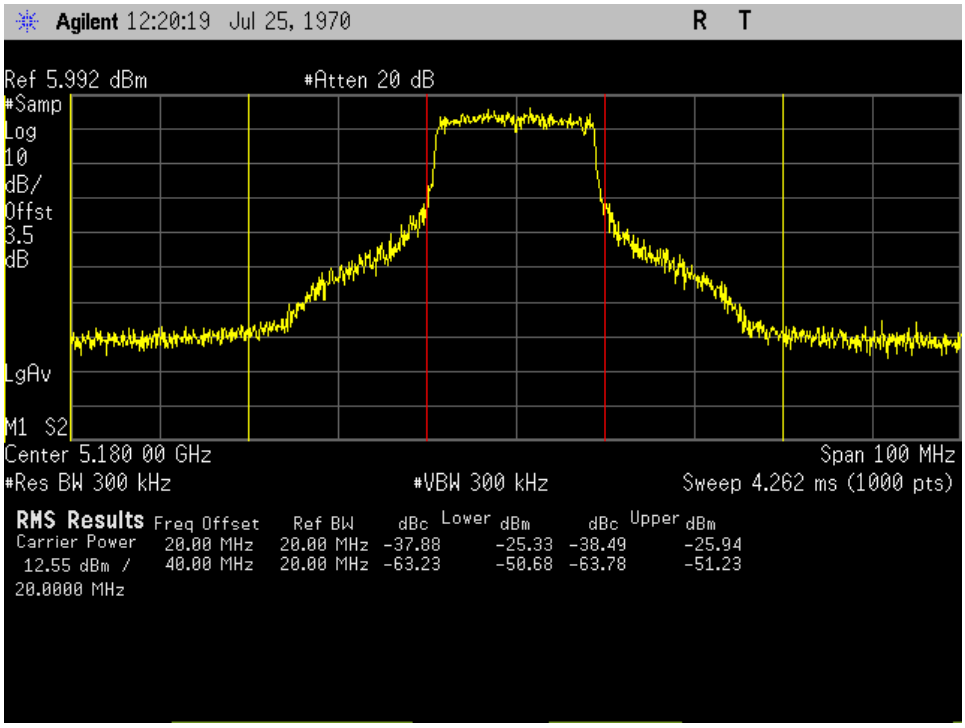


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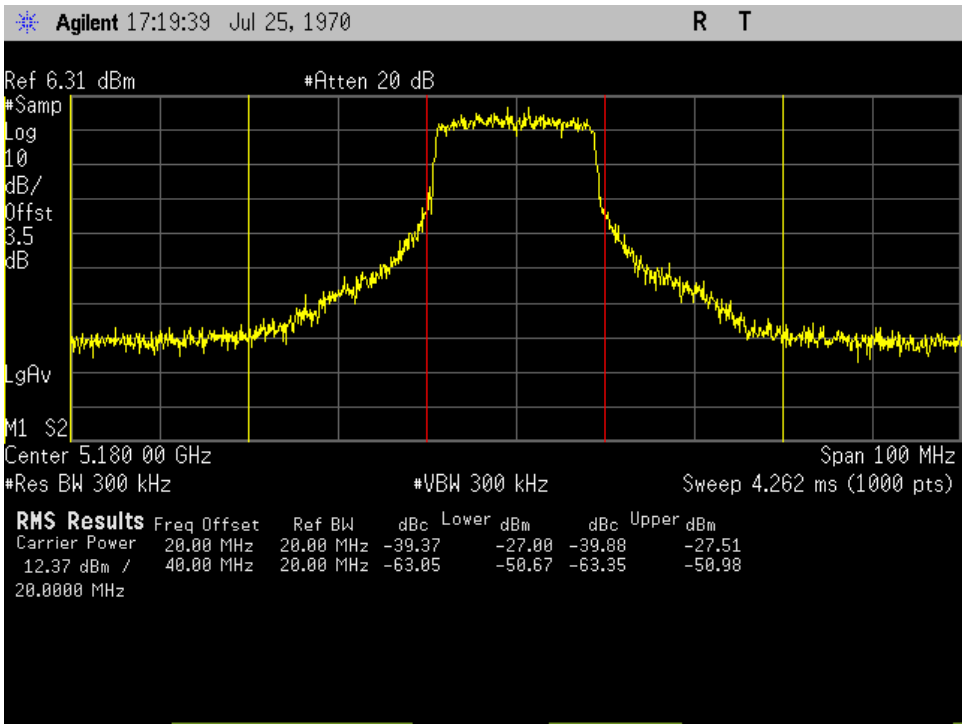


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W52_5180MHz_Low Ch_36_20MHz BW_n-mode_Adjacent Ch Power_Port 1

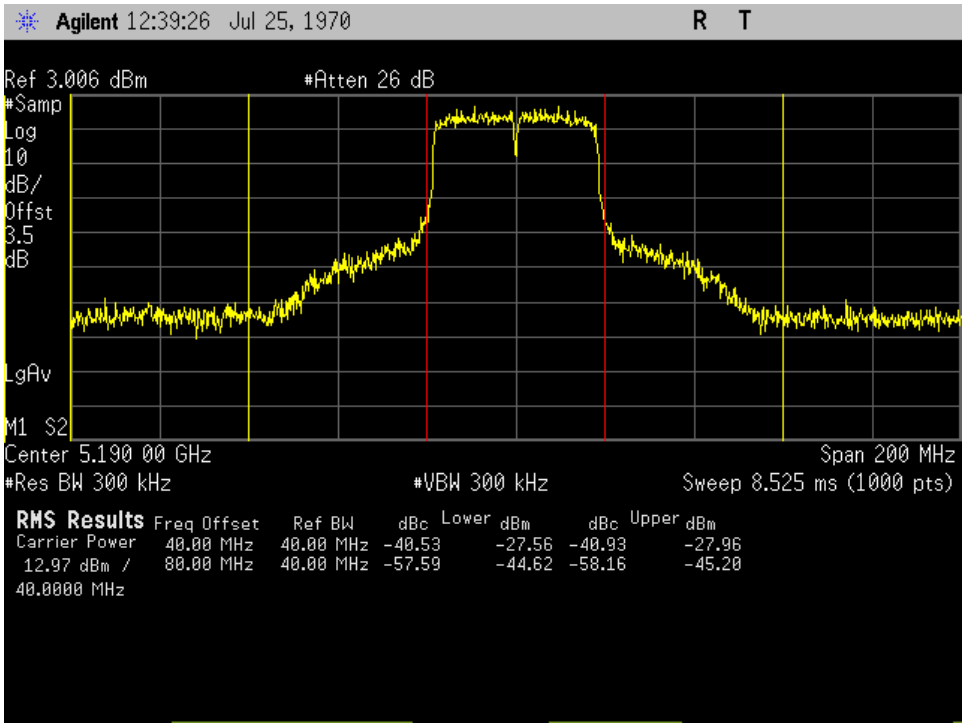


W52_5180MHz_Low Ch_36_20MHz BW_n-mode_Adjacent Ch Power_Port 2

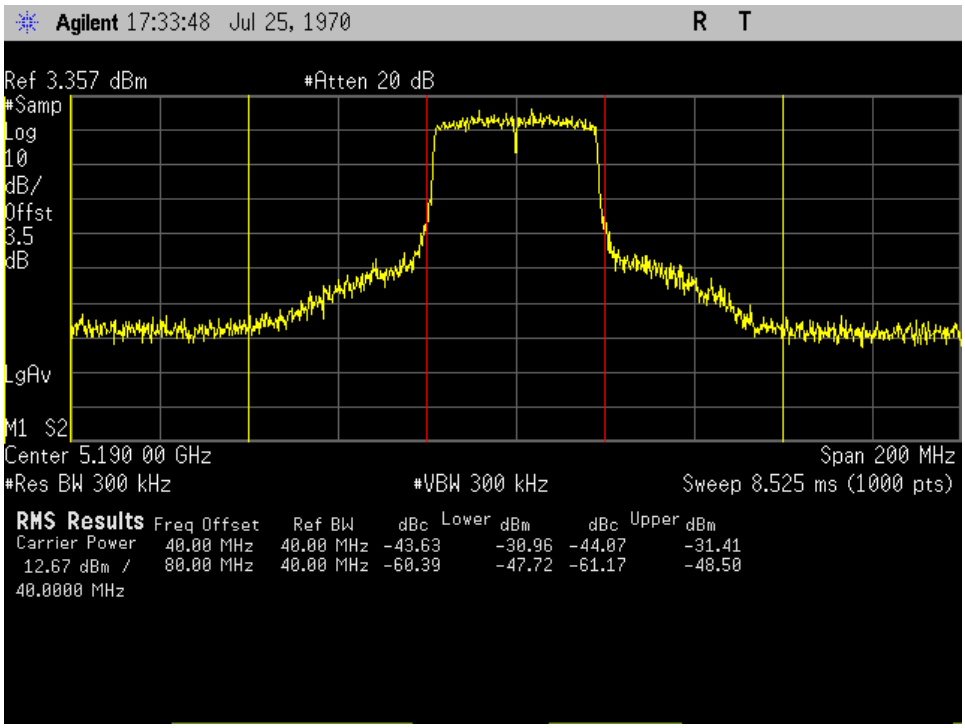


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W52_5190MHz_Low Ch_38_40MHz BW_n-mode_Adjacent Ch Power_Port 1

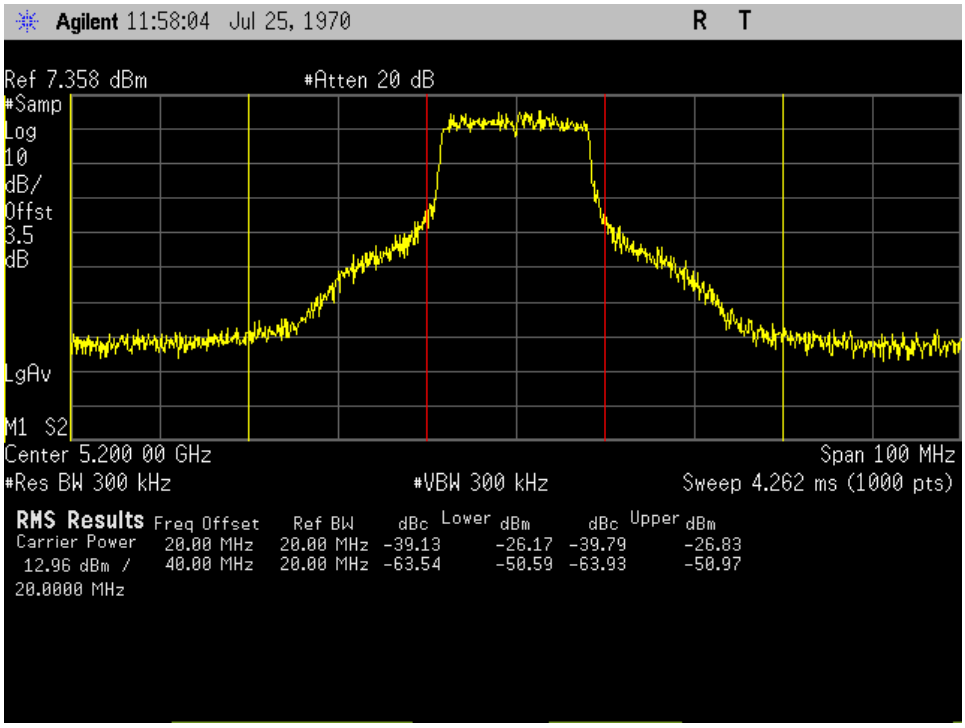


W52_5190MHz_Low Ch_38_40MHz BW_n-mode_Adjacent Ch Power_Port 2

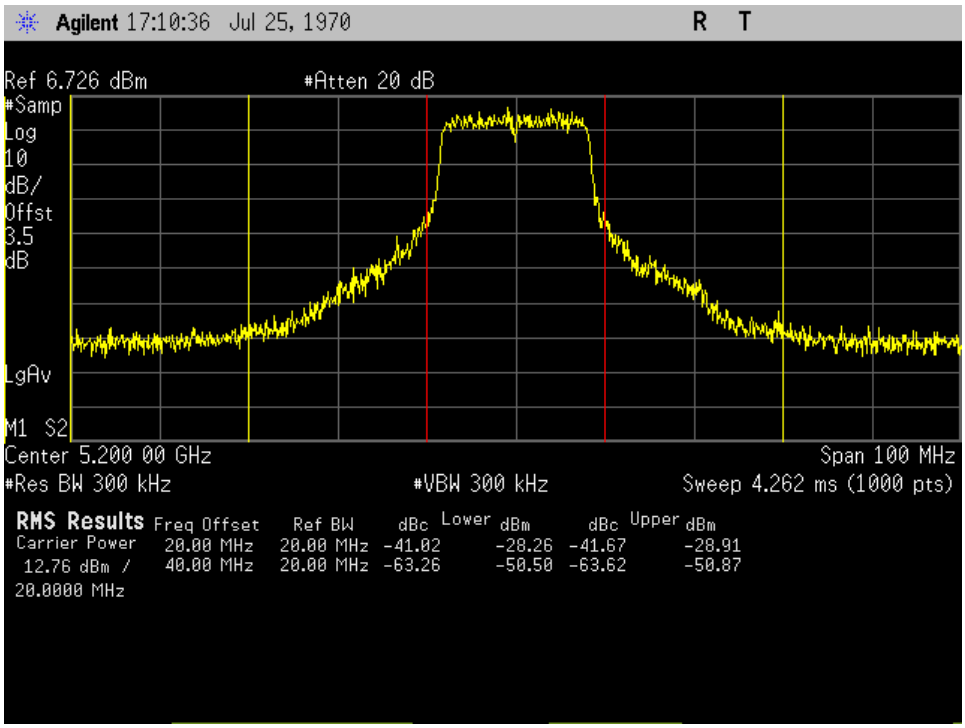


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W52_5200MHz_low_mid Ch_40_20MHz BW_a-mode_Adjacent Ch Power_Port 1

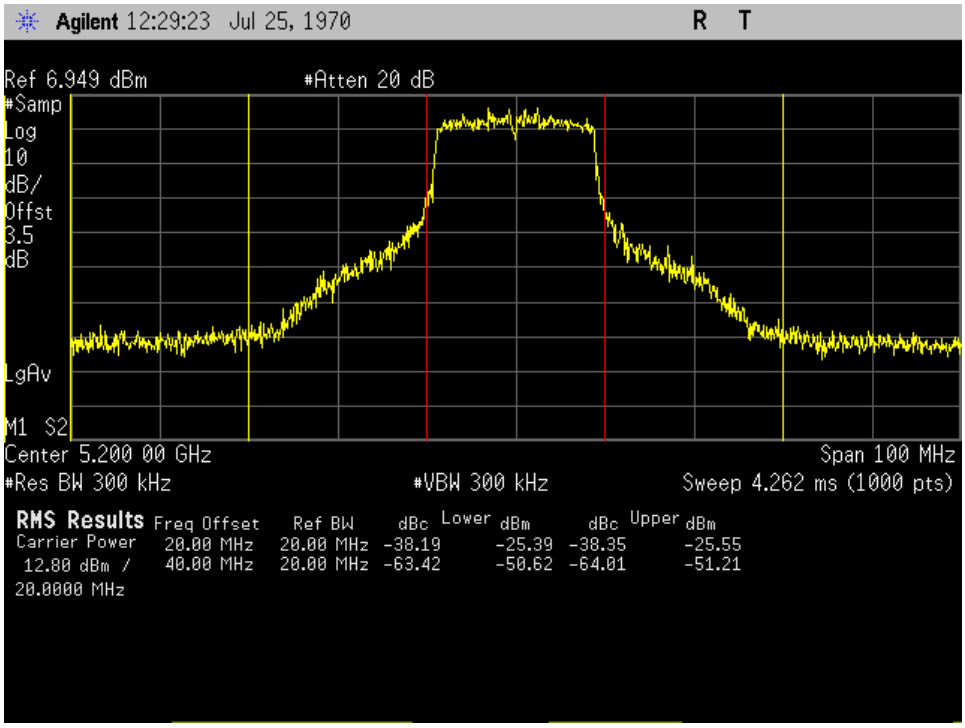


W52_5200MHz_low_mid Ch_40_20MHz BW_a-mode_Adjacent Ch Power_Port 2

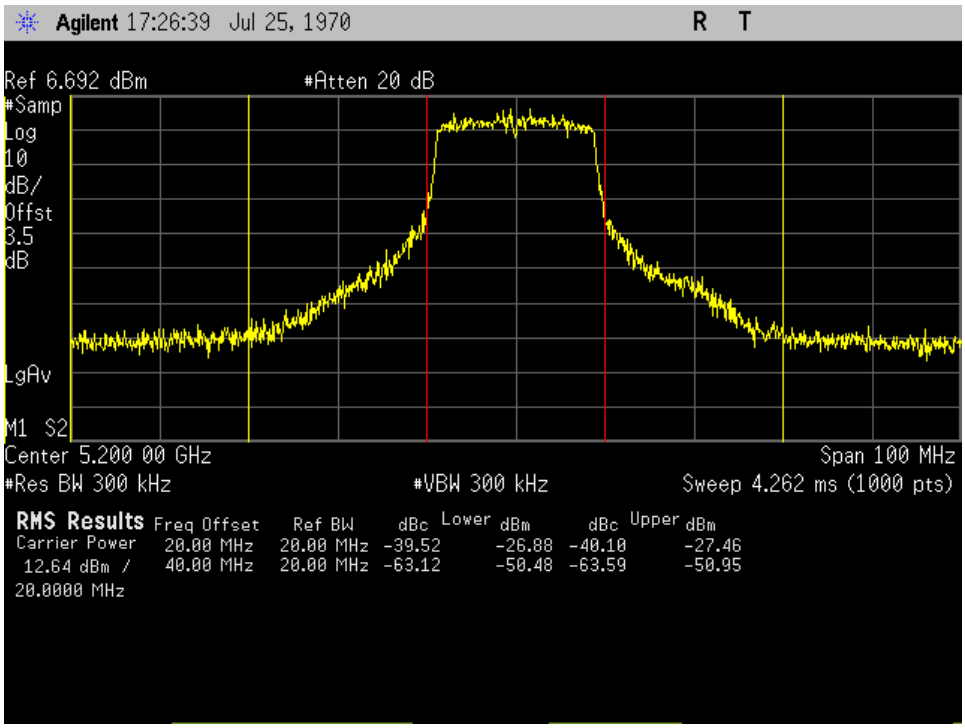


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W52_5200MHz_low_mid Ch_40_20MHz BW_n-mode_Adjacent Ch Power_Port 1

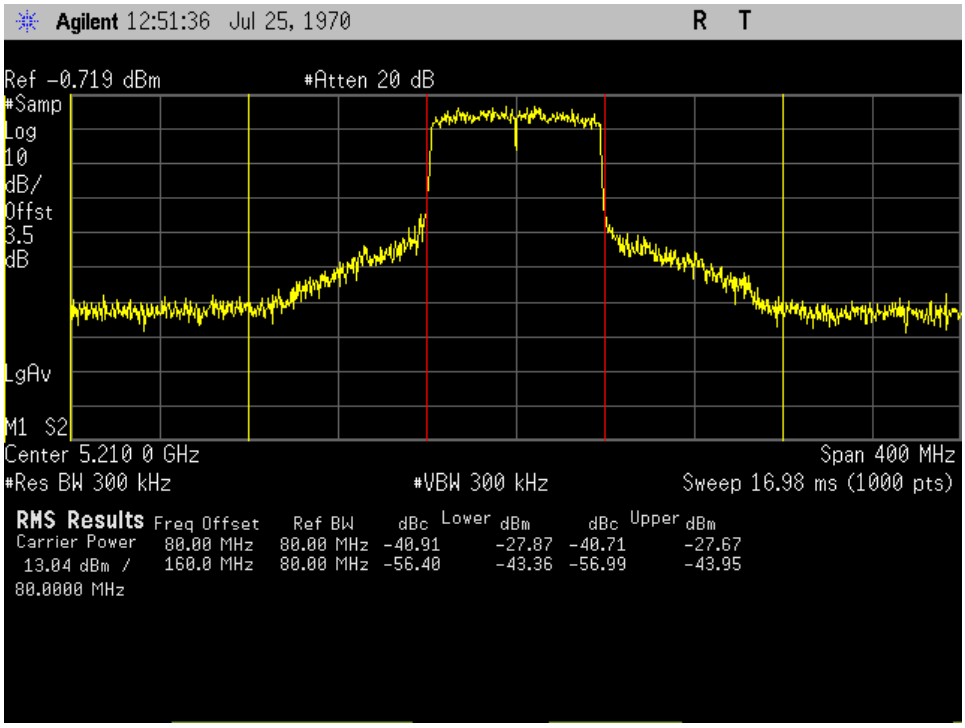


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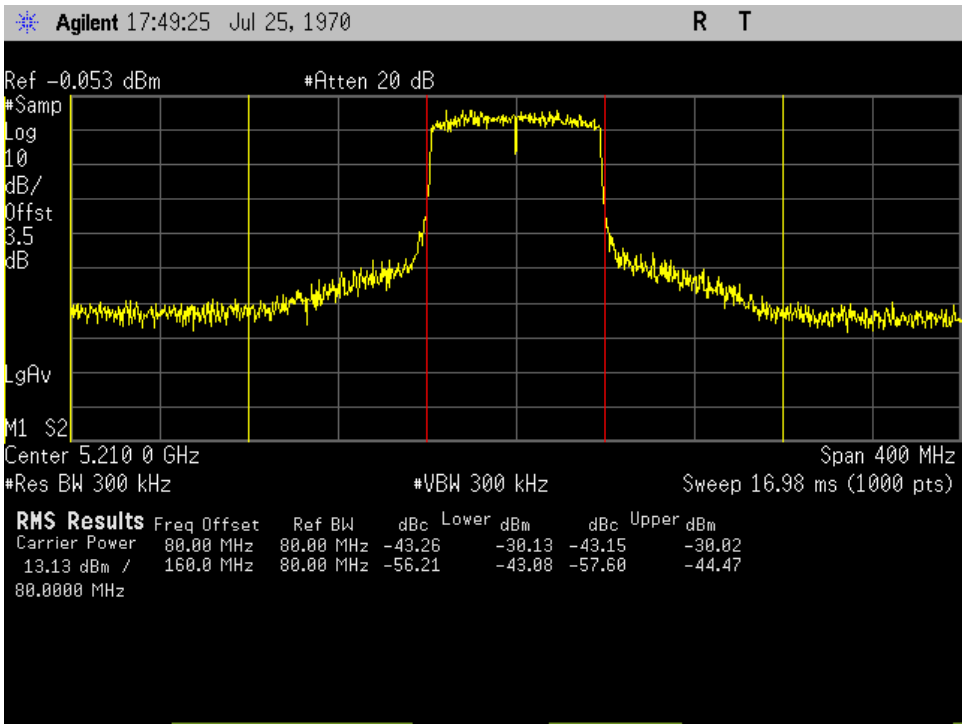


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W52_5210MHz_Low mid Ch_42_80MHz BW_ac-mode_Adjacent Ch Power_Port 1

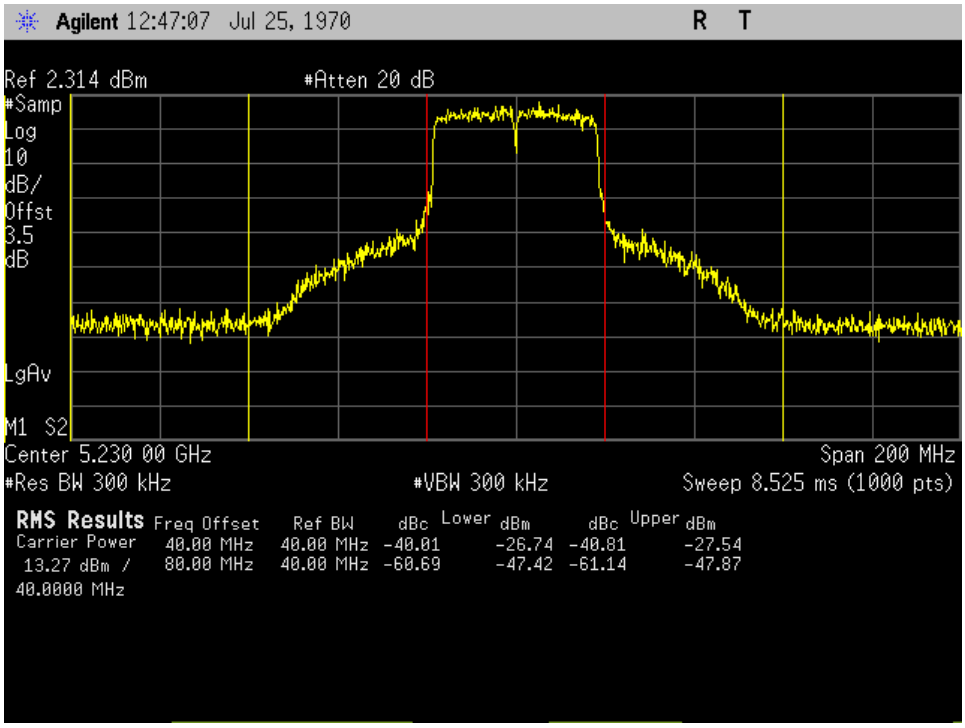


W52_5210MHz_Low mid Ch_42_80MHz BW_ac-mode_Adjacent Ch Power_Port 2

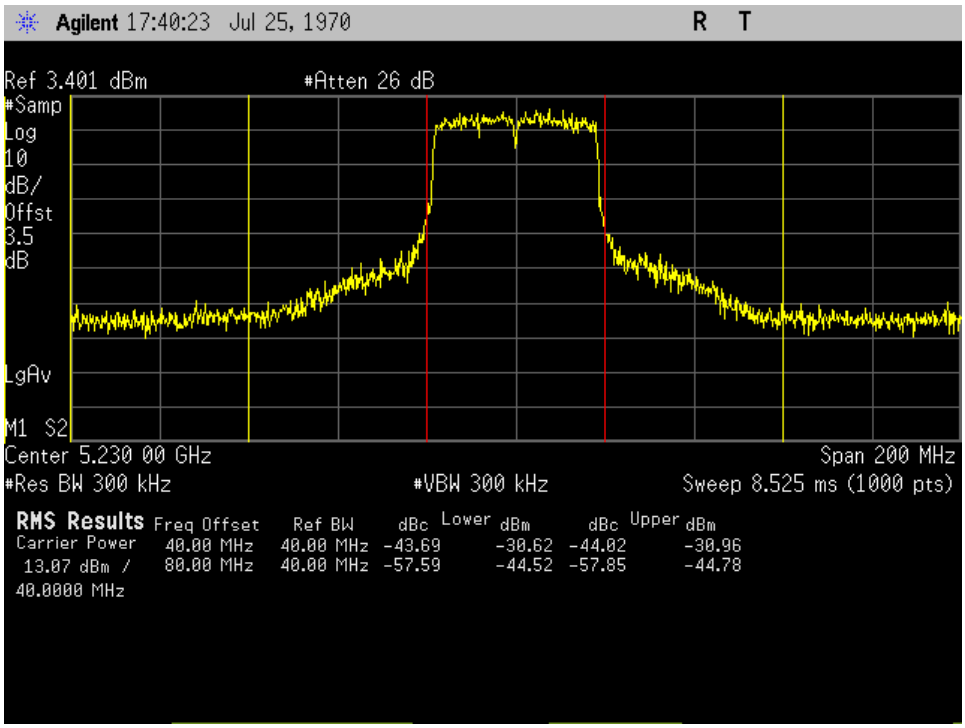


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W52_5230MHz_high_mid Ch_46_40MHz BW_n-mode_Adjacent Ch Power_Port 1

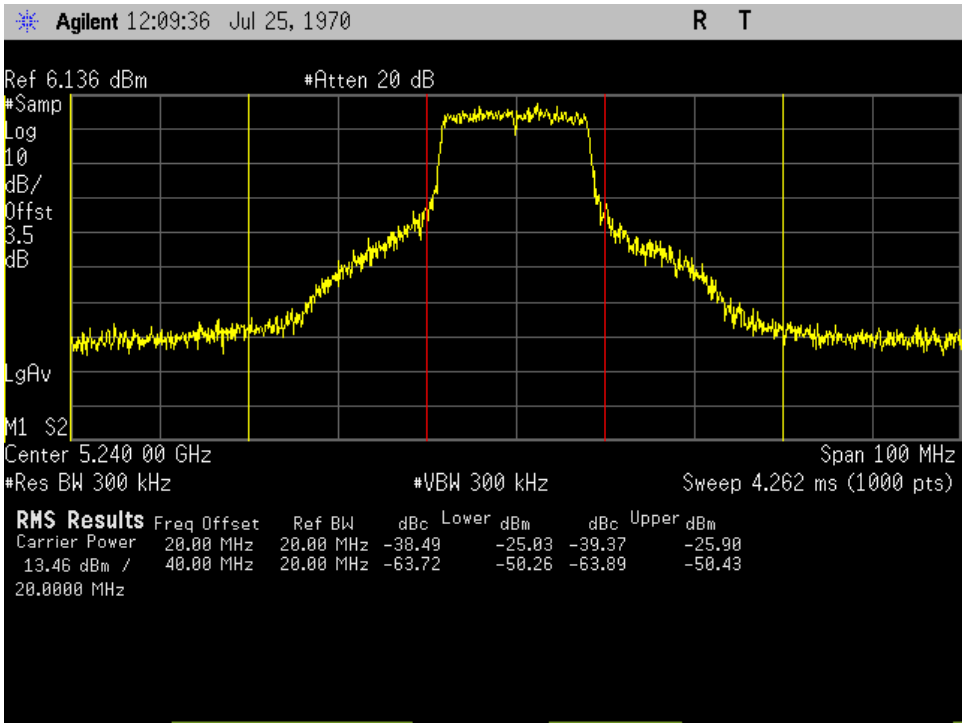


W52_5230MHz_high_mid Ch_46_40MHz BW_n-mode_Adjacent Ch Power_Port 2

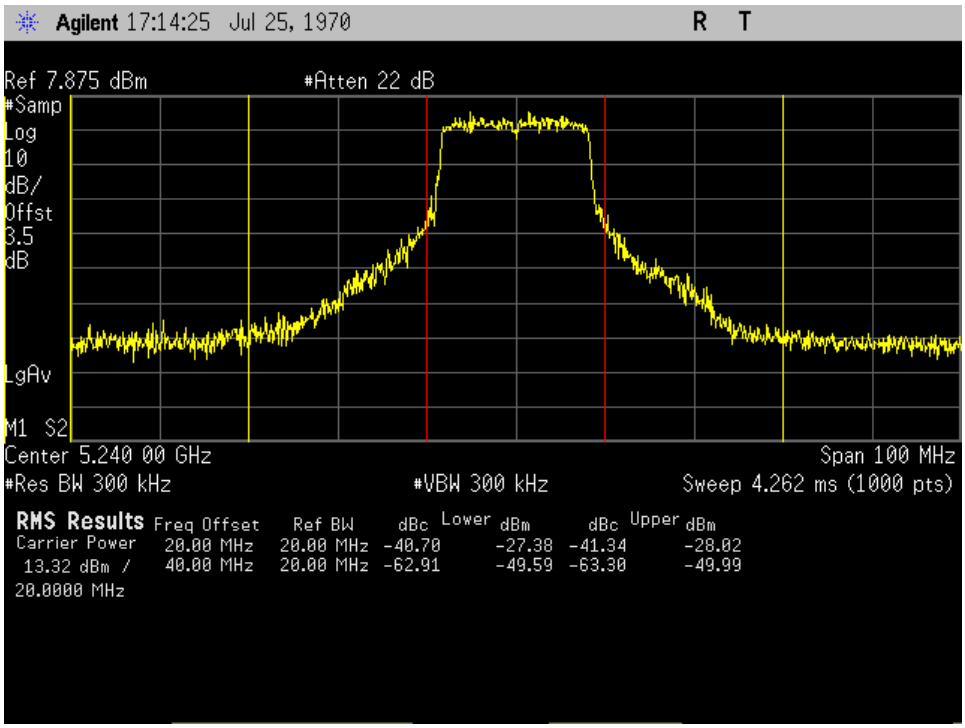


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W52_5240MHz_high_mid Ch_48_20MHz BW_a-mode_Adjacent Ch Power_Port 1

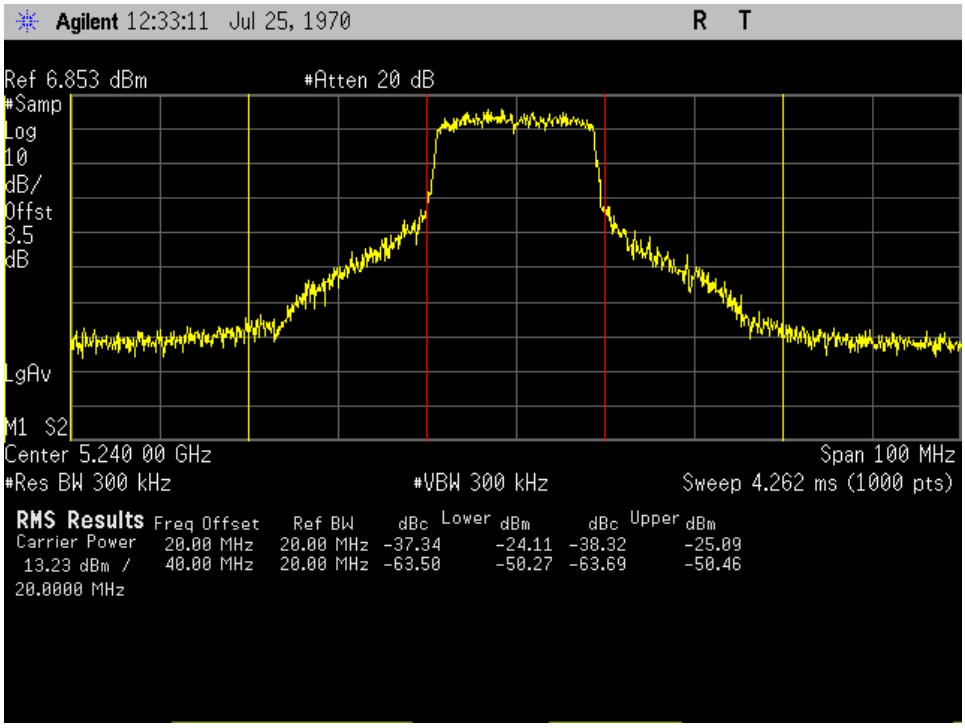


W52_5240MHz_high_mid Ch_48_20MHz BW_a-mode_Adjacent Ch Power_Port 2

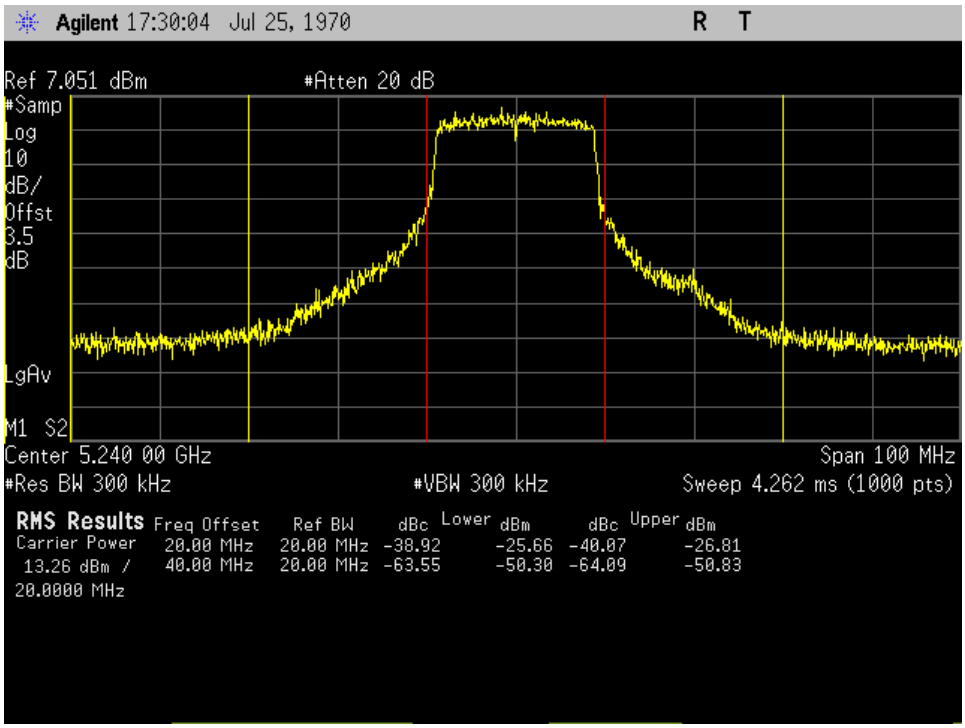


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W52_5240MHz_high_mid Ch_48_20MHz BW_n-mode_Adjacent Ch Power_Port 1



W52_5240MHz_high_mid Ch_48_20MHz BW_n-mode_Adjacent Ch Power_Port 2

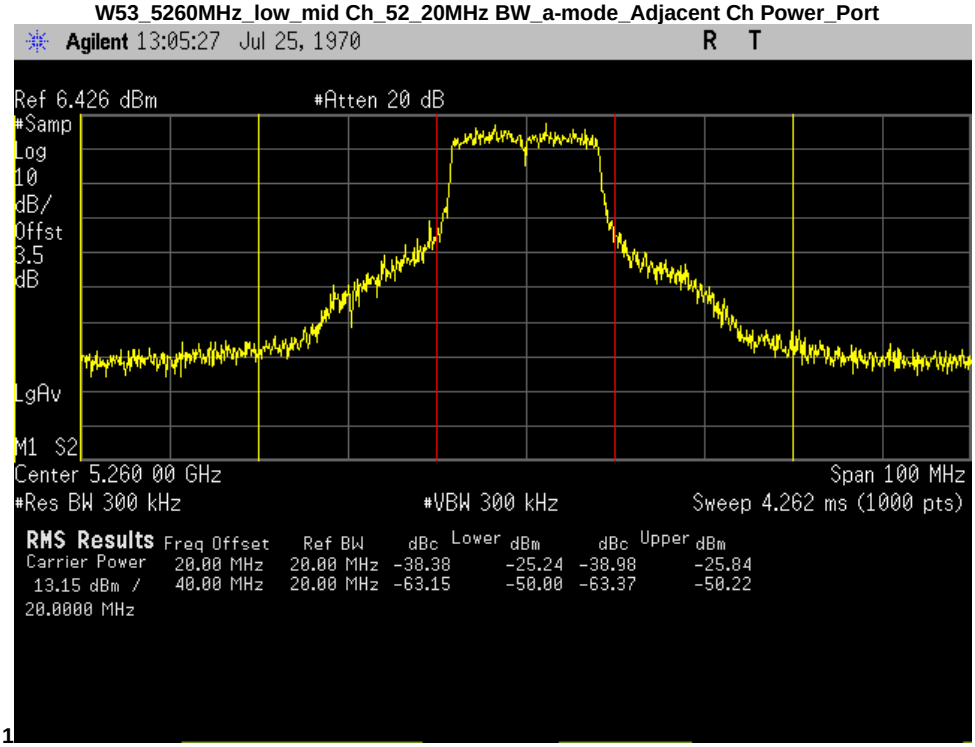


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Adjacent Channel Power Plots (Band W53)

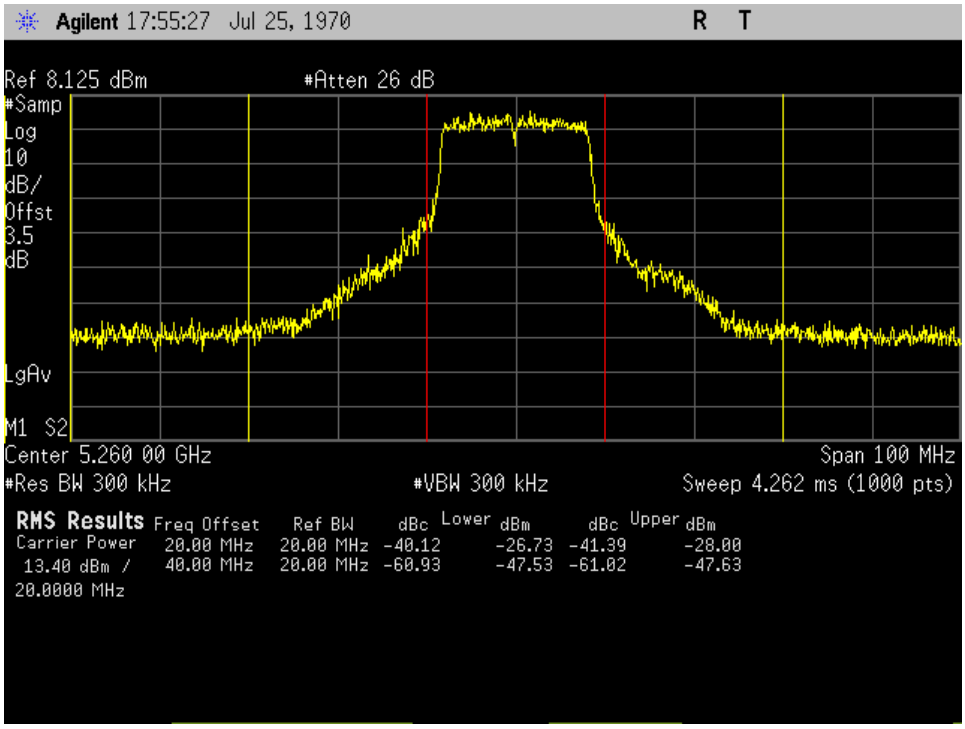
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W53_5260MHz_low_mid Ch_52_20MHz BW_a-mode_Adjacent Ch Power_Port



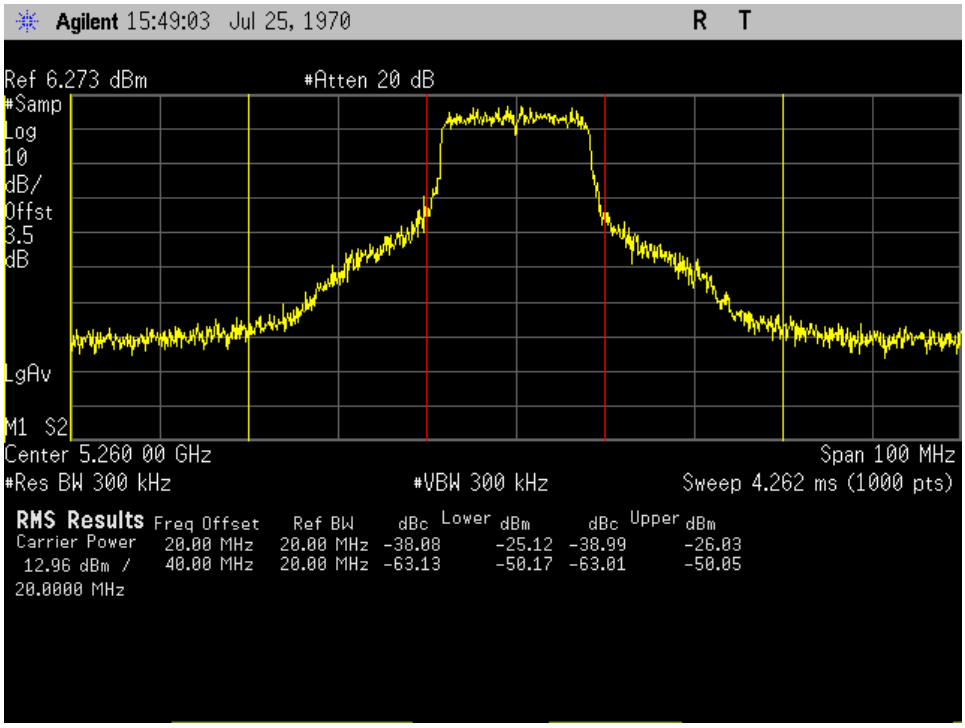
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W53_5260MHz_low_mid Ch_52_20MHz BW_a-mode_Adjacent Ch Power_Port 2

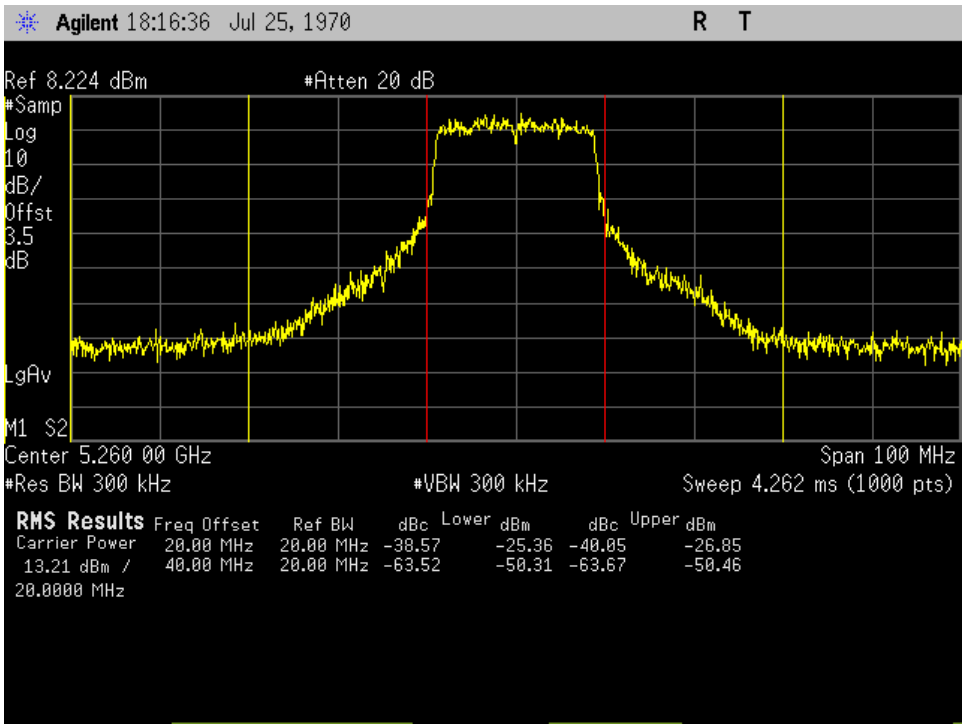


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W53_5260MHz_low_mid Ch_52_20MHz BW_n-mode_Adjacent Ch Power_Port 1

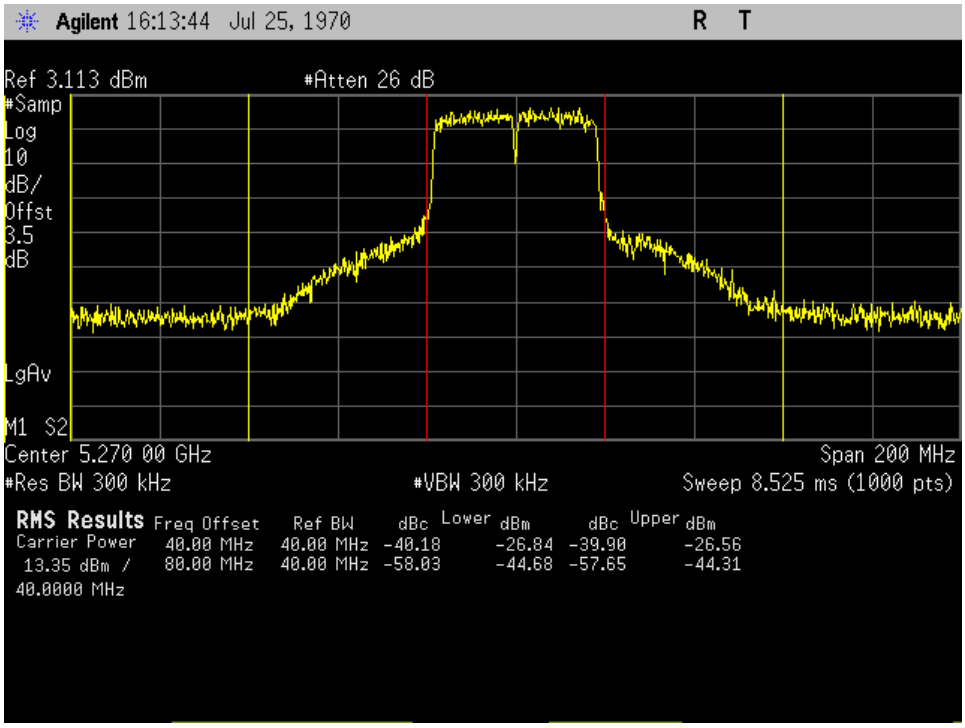


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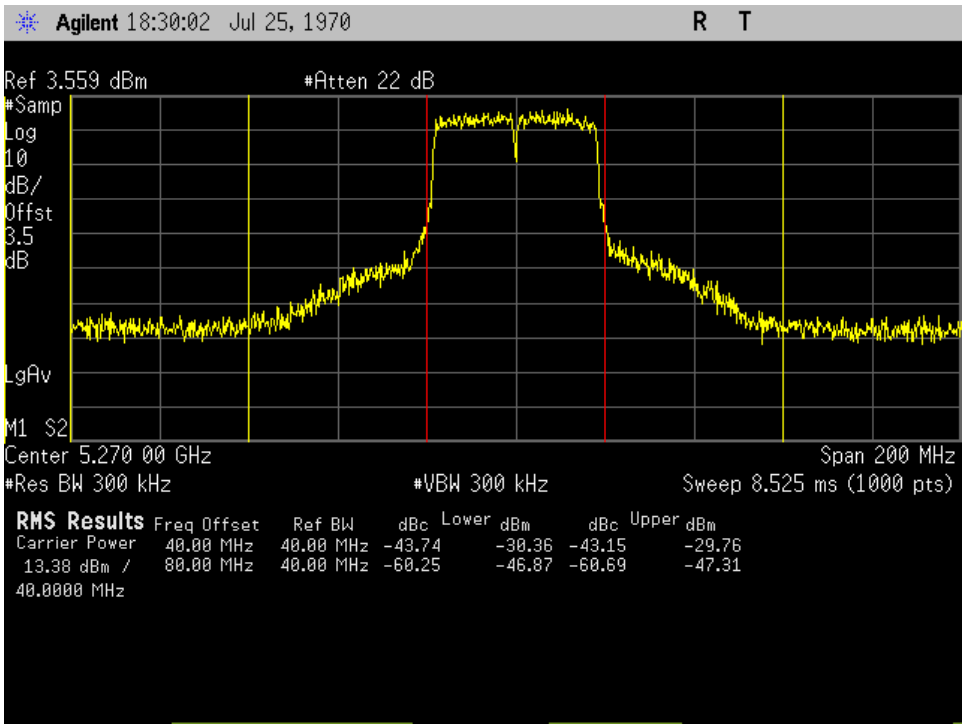


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W53_5270MHz_low_mid Ch_54_40MHz BW_n-mode_Adjacent Ch Power_Port 1

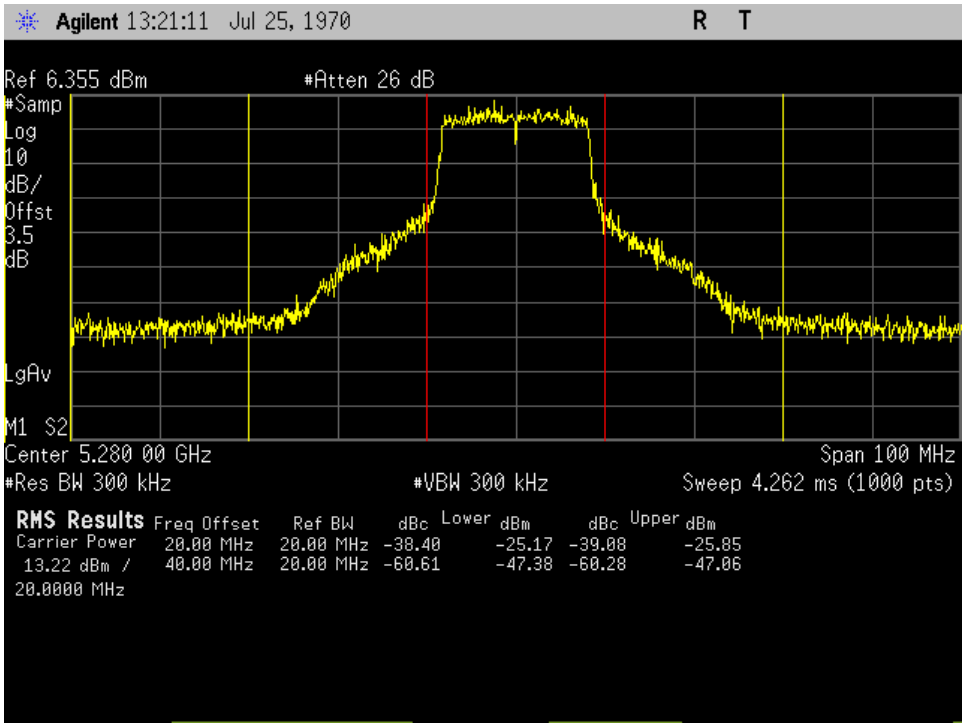


W53_5270MHz_low_mid Ch_54_40MHz BW_n-mode_Adjacent Ch Power_Port 2

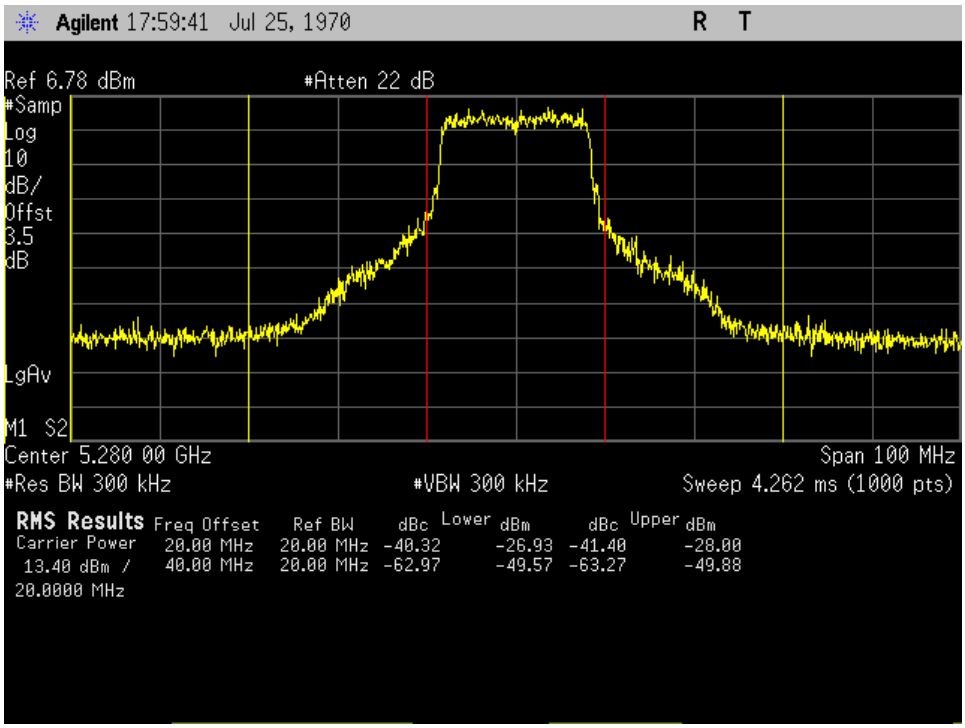


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W53_5280MHz_high_mid Ch_56_20MHz BW_a-mode_Adjacent Ch Power_Port 1

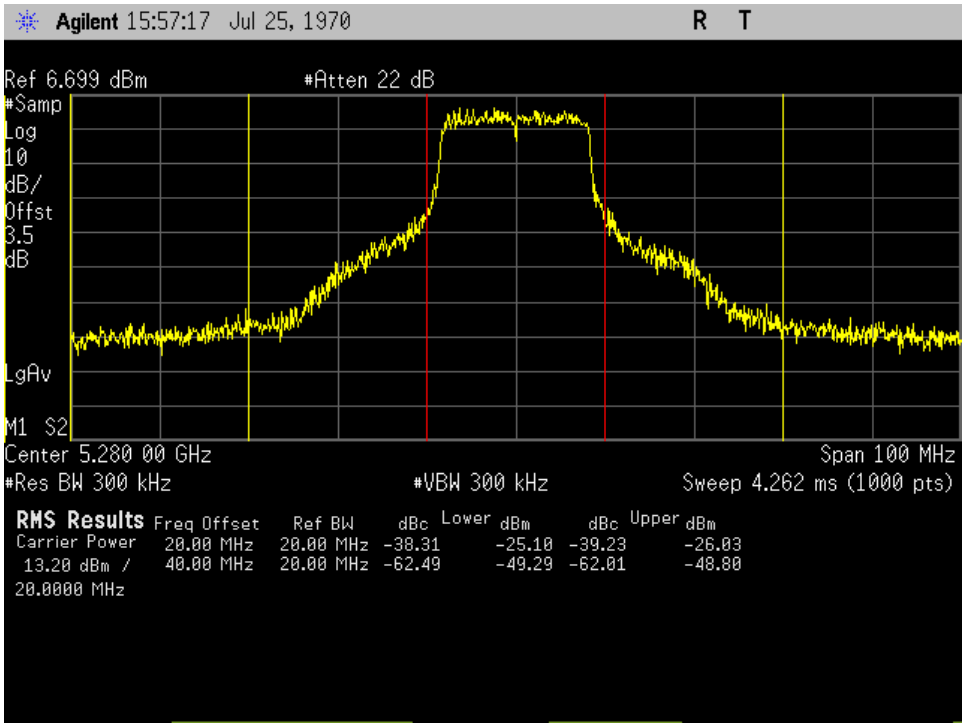


W53_5280MHz_high_mid Ch_56_20MHz BW_a-mode_Adjacent Ch Power_Port 2

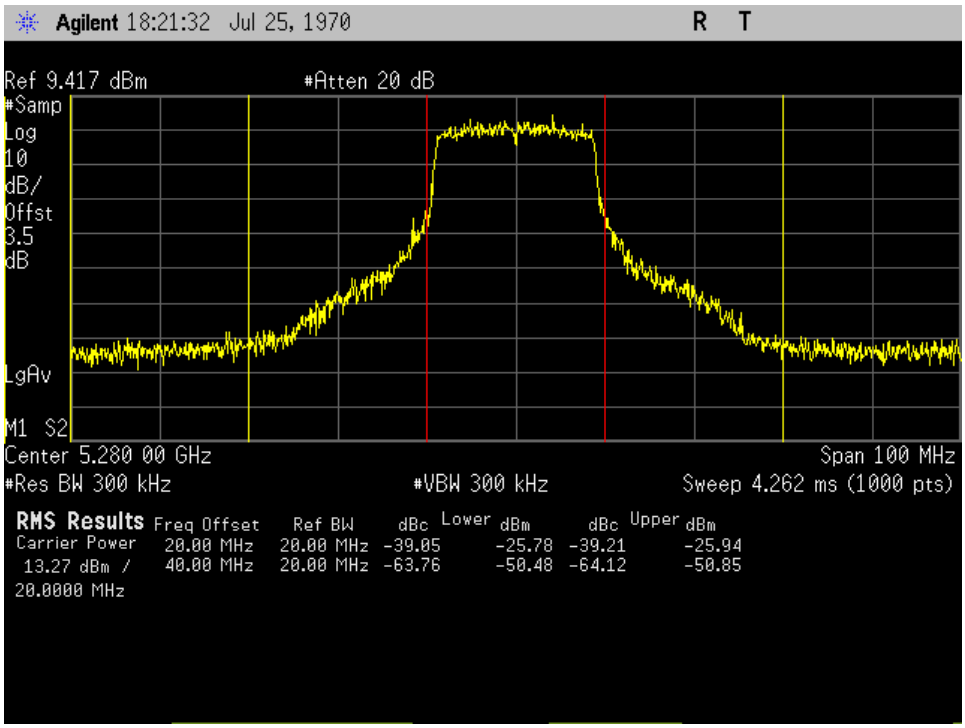


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W53_5280MHz_high_mid Ch_56_20MHz BW_n-mode_Adjacent Ch Power_Port 1

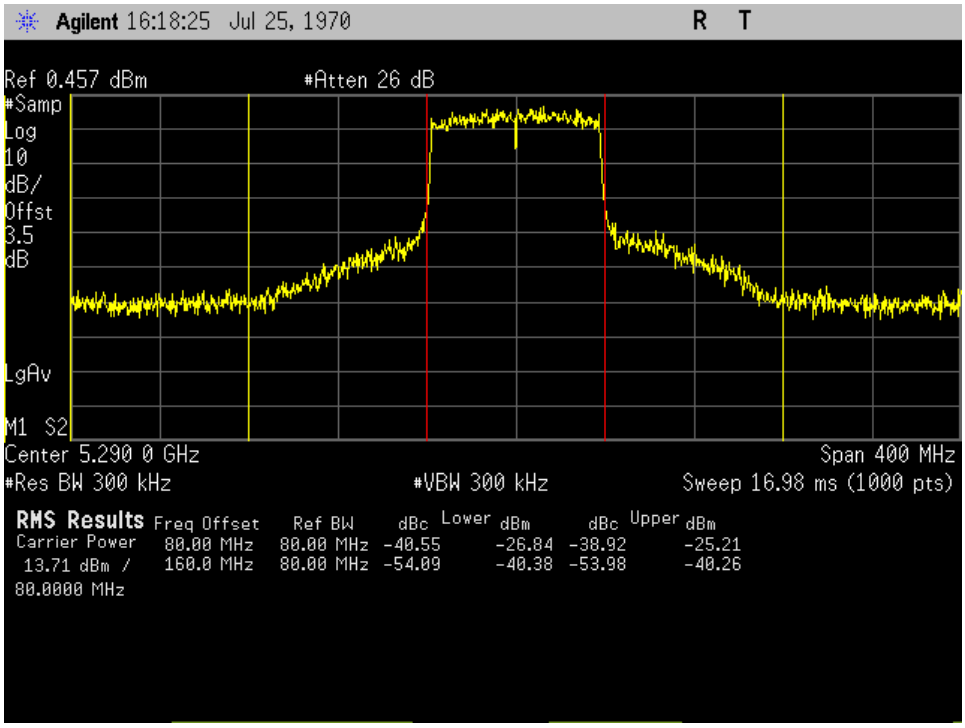


W53_5280MHz_high_mid Ch_56_20MHz BW_n-mode_Adjacent Ch Power_Port 2

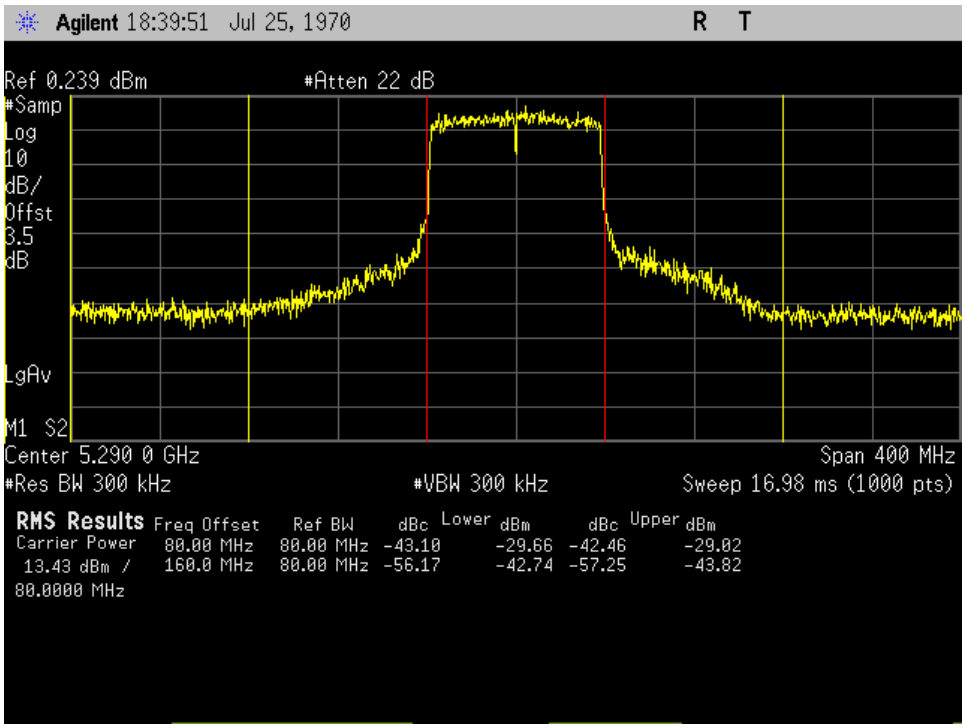


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W53_5290MHz_High Ch_58_80MHz BW_ac-mode_Adjacent Ch Power_Port 1

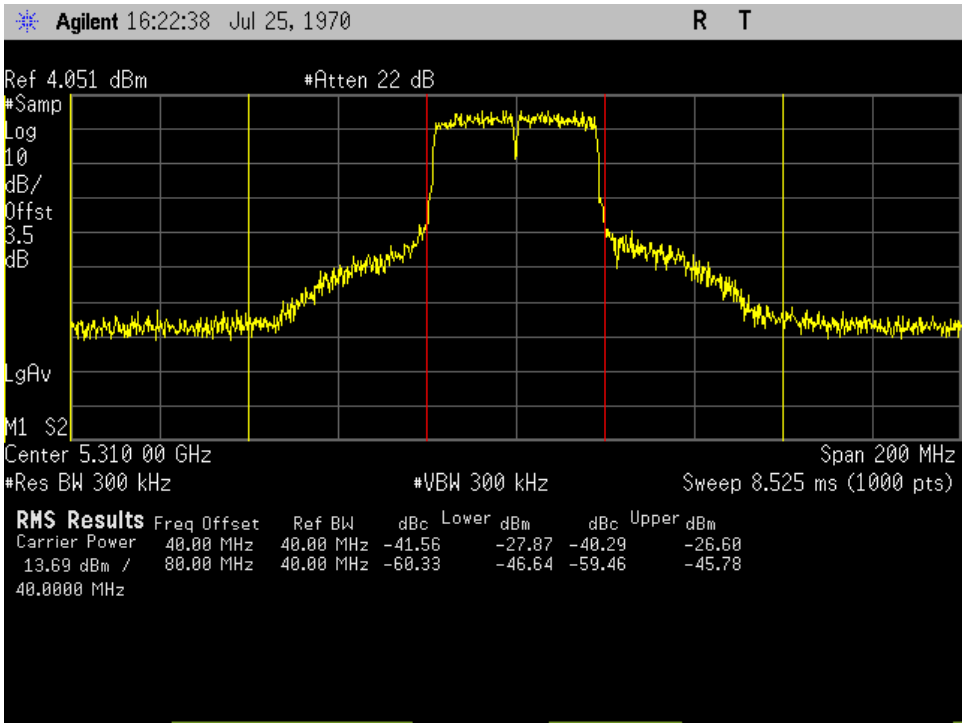


W53_5290MHz_High Ch_58_80MHz BW_ac-mode_Adjacent Ch Power_Port 2

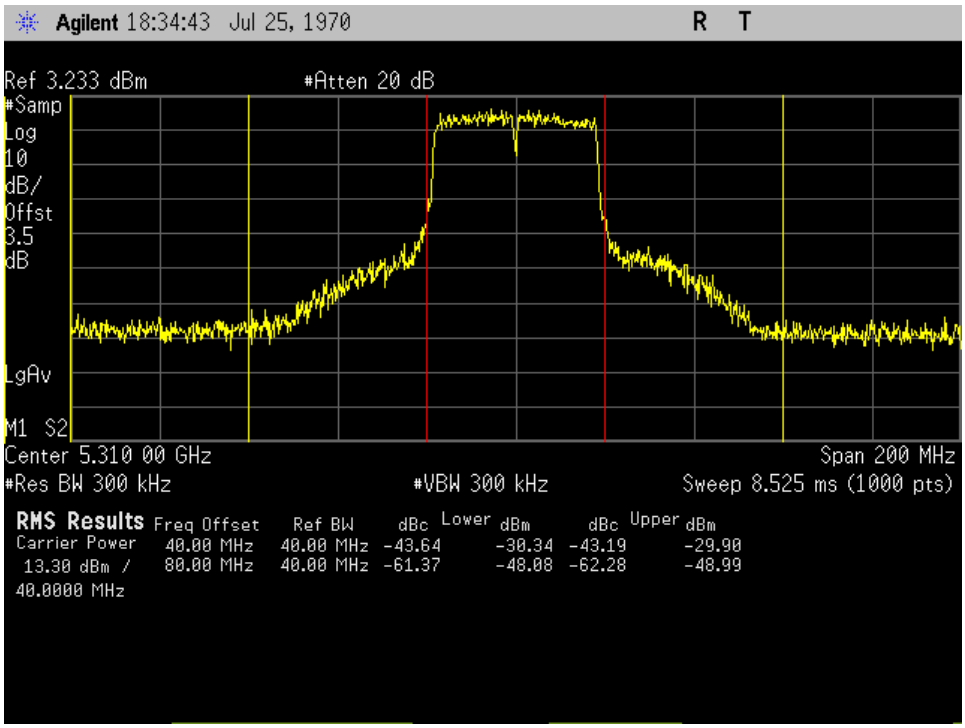


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W53_5310MHz_High Ch_62_40MHz BW_n-mode_Adjacent Ch Power_Port 1

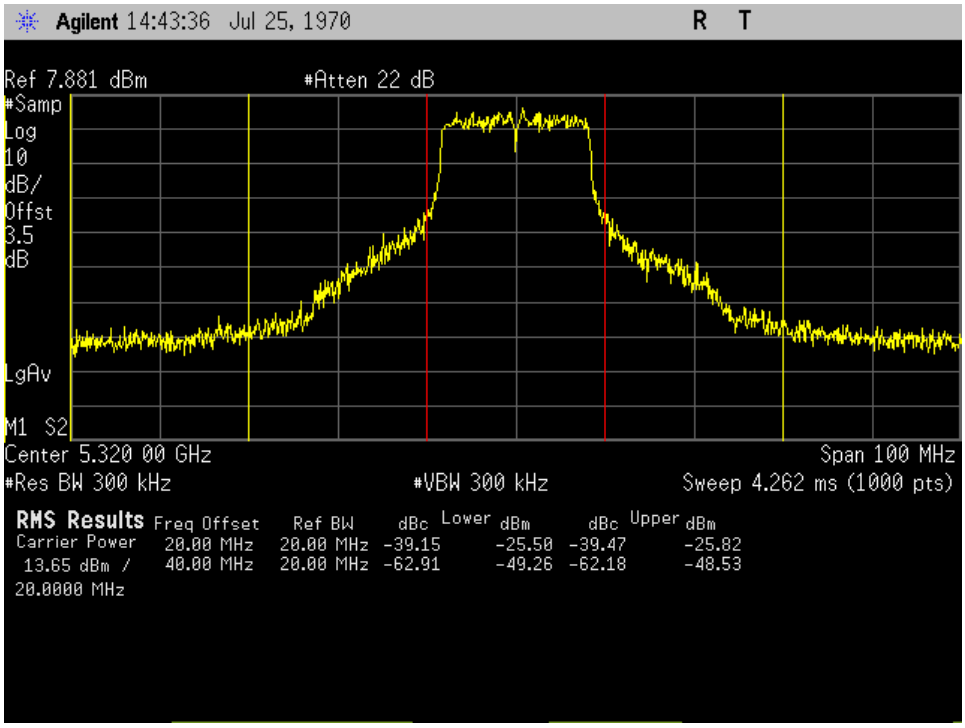


W53_5310MHz_High Ch_62_40MHz BW_n-mode_Adjacent Ch Power_Port 2

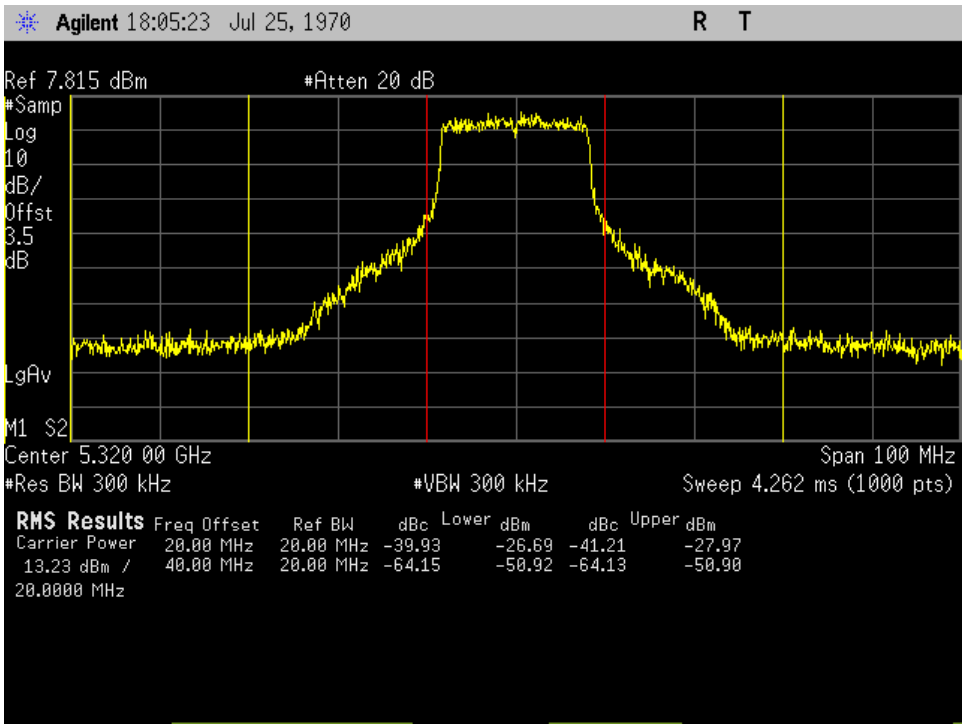


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W53_5320MHz_High Ch_64_20MHz BW_a-mode_Adjacent Ch Power_Port 1

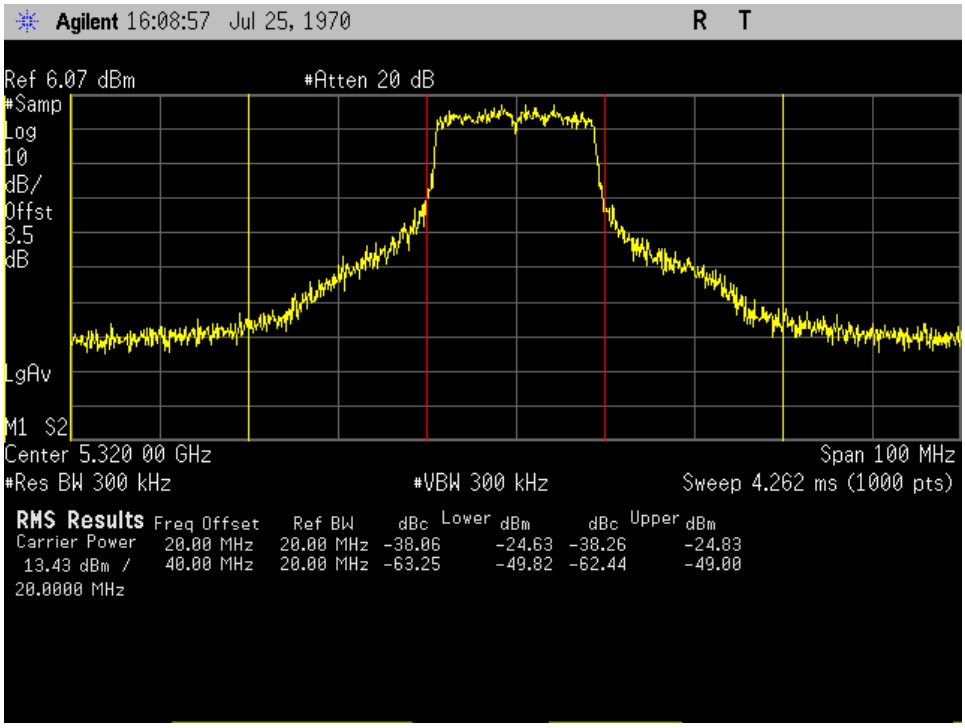


W53_5320MHz_High Ch_64_20MHz BW_a-mode_Adjacent Ch Power_Port 2

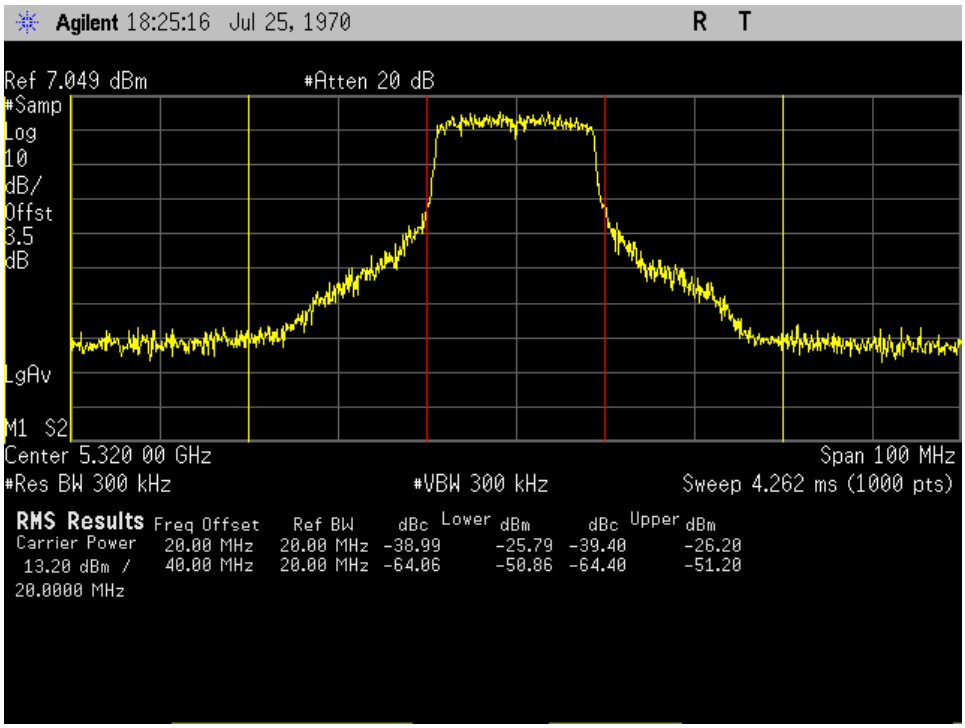


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W53_5320MHz_High Ch_64_20MHz BW_n-mode_Adjacent Ch Power_Port 1

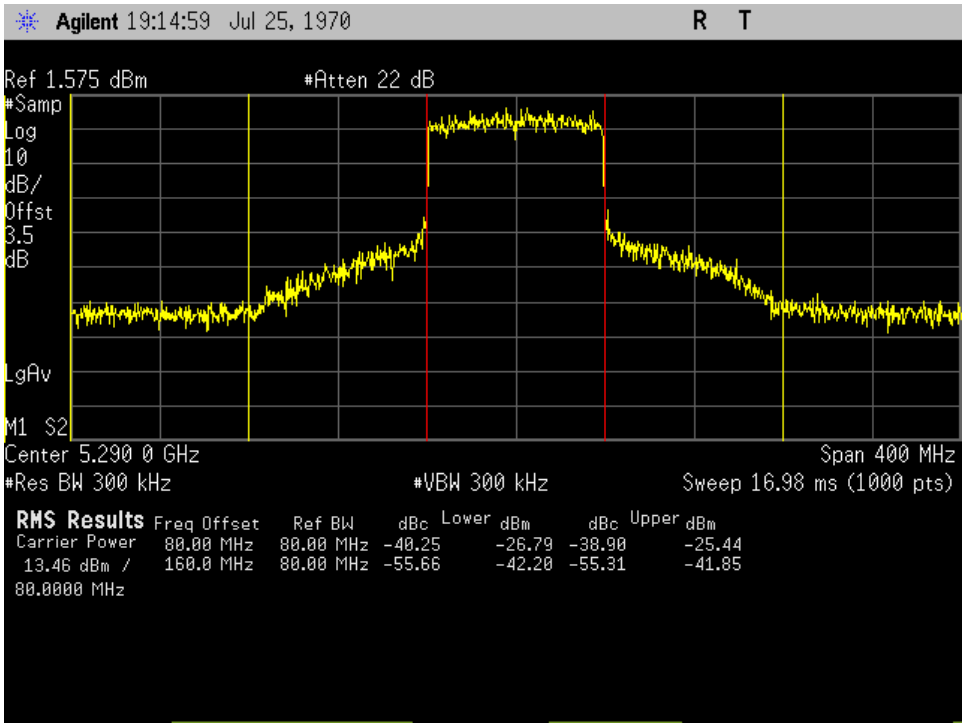


W53_5320MHz_High Ch_64_20MHz BW_n-mode_Adjacent Ch Power_Port 2

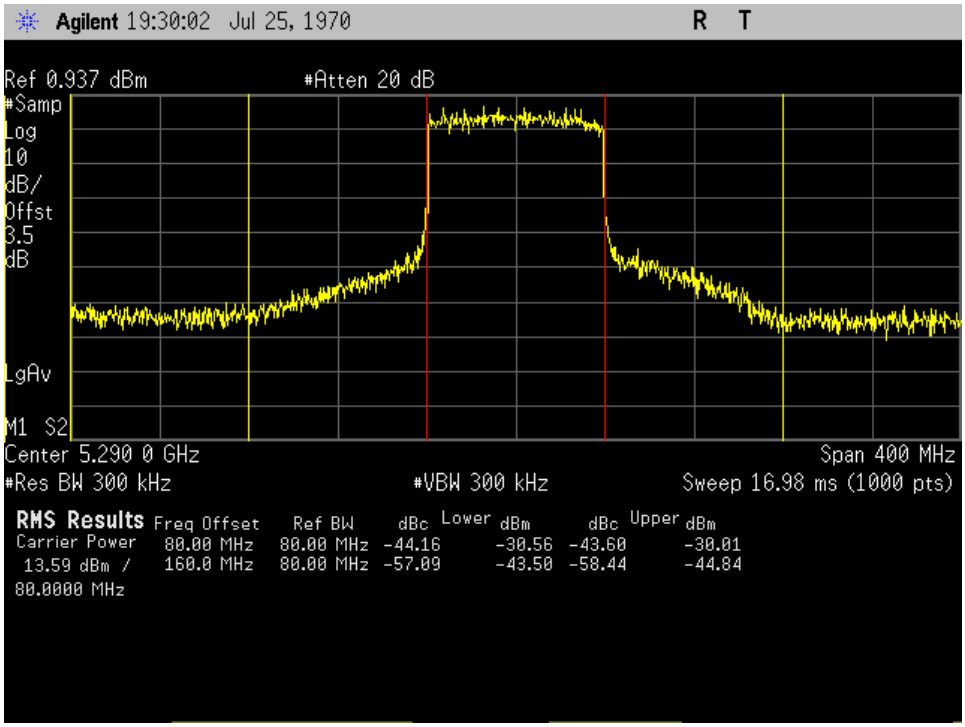


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W53_5290MHz_High Ch_58_80MHz BW_ax-mode_Adjacent Ch Power_Port 1



W53_5290MHz_High Ch_58_80MHz BW_ax-mode_Adjacent Ch Power_Port 2

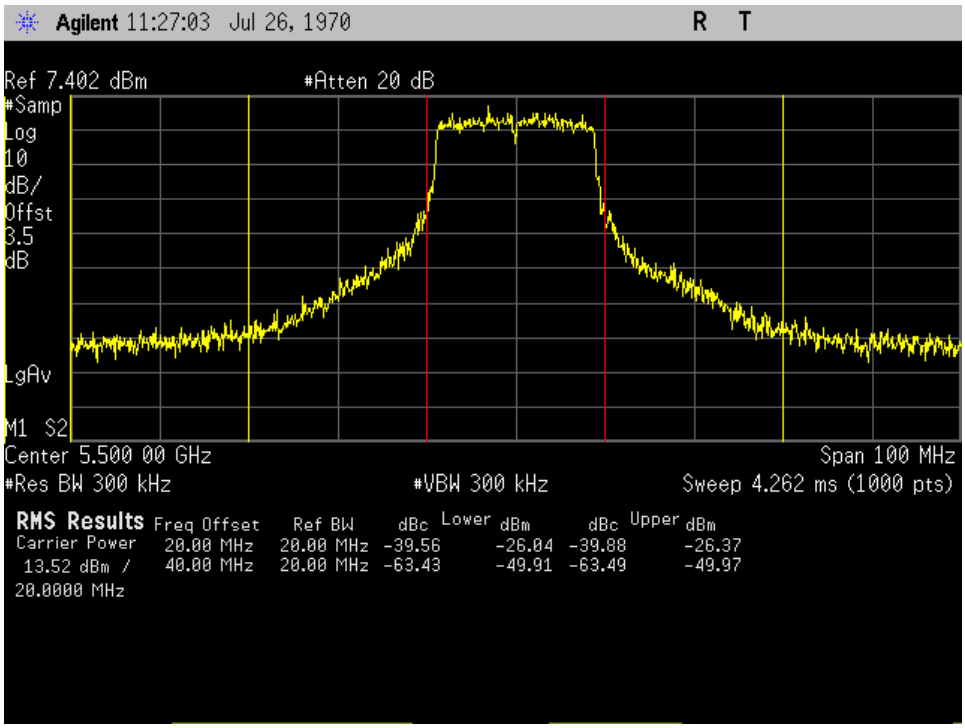


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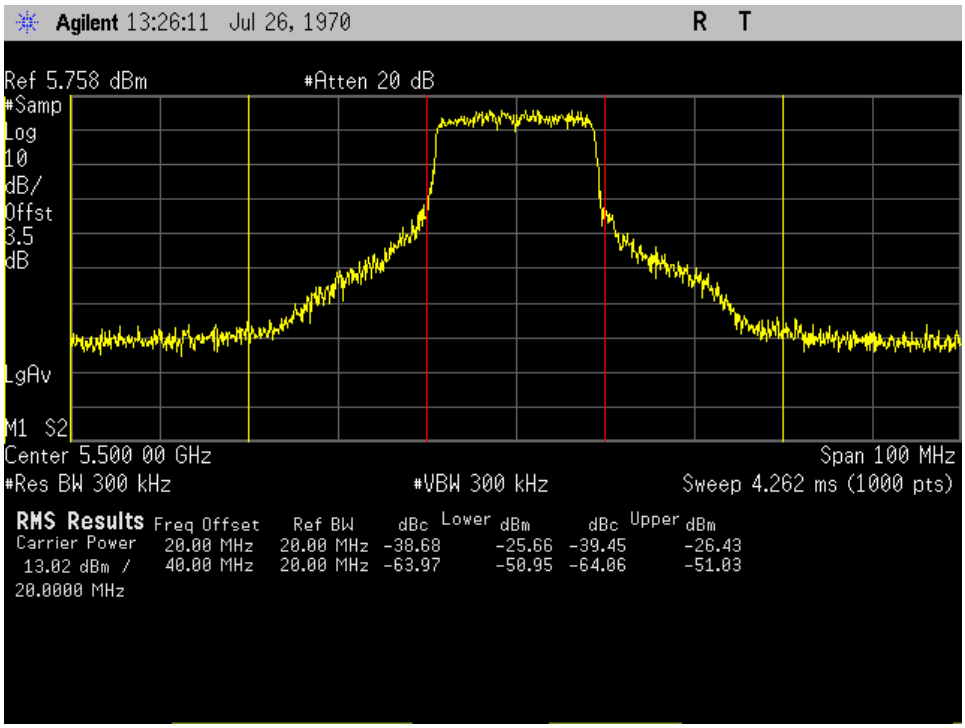
Adjacent Channel Power Plots (Band W56)

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W56_5500MHz_High Ch_100_20MHz BW_n-mode_Adjacent Ch Power_Port 1

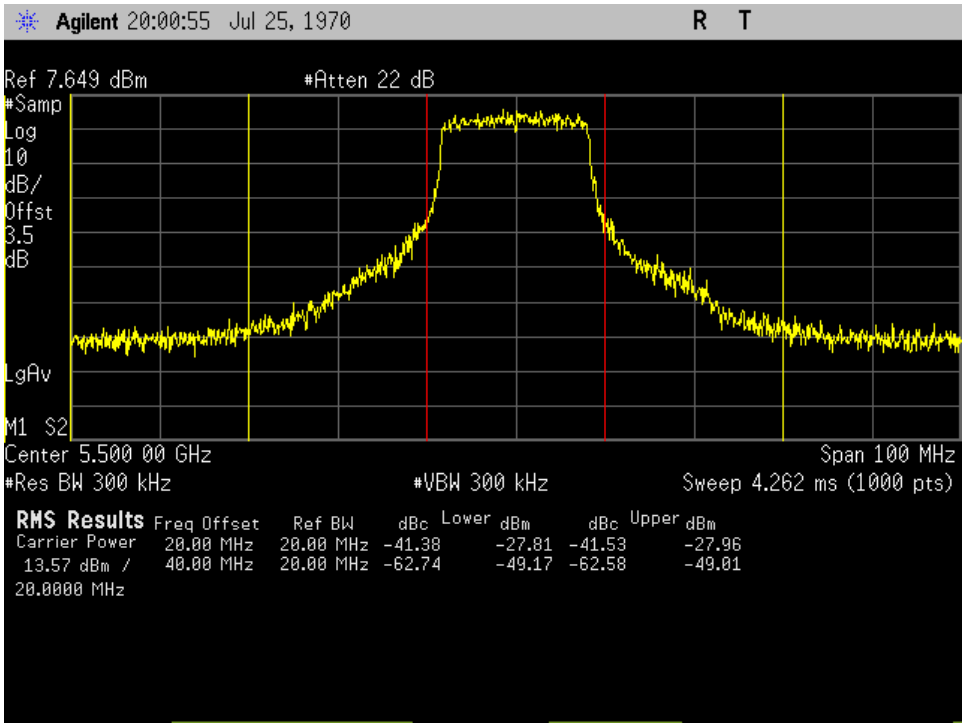


W56_5500MHz_High Ch_100_20MHz BW_n-mode_Adjacent Ch Power_Port 2

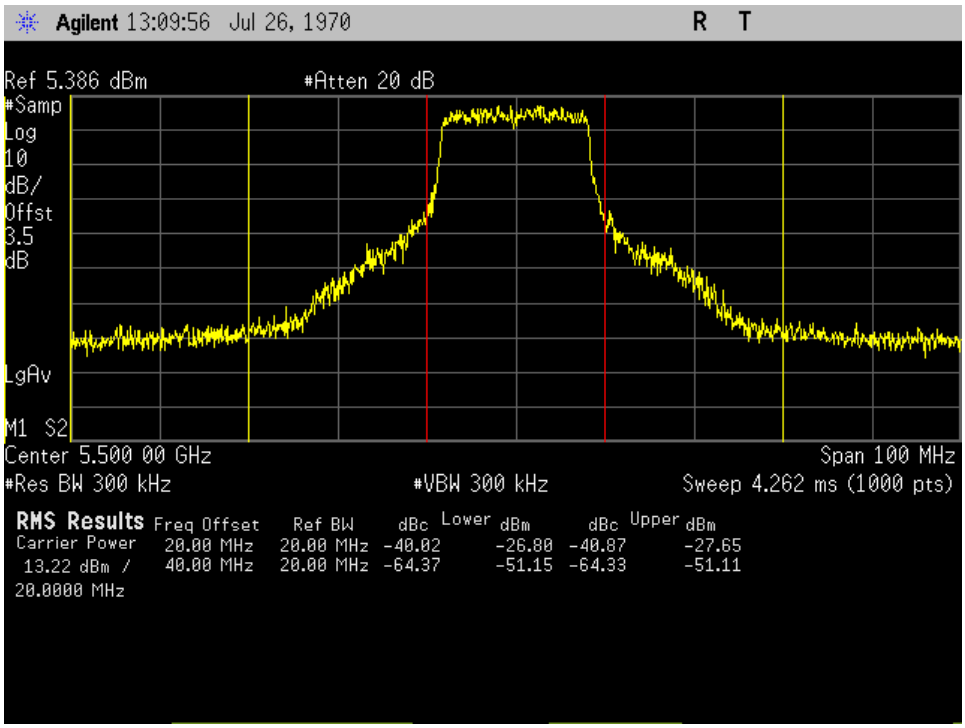


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W56_5500MHz_Low Ch_100_20MHz BW_a-mode_Adjacent Ch Power_Port 1

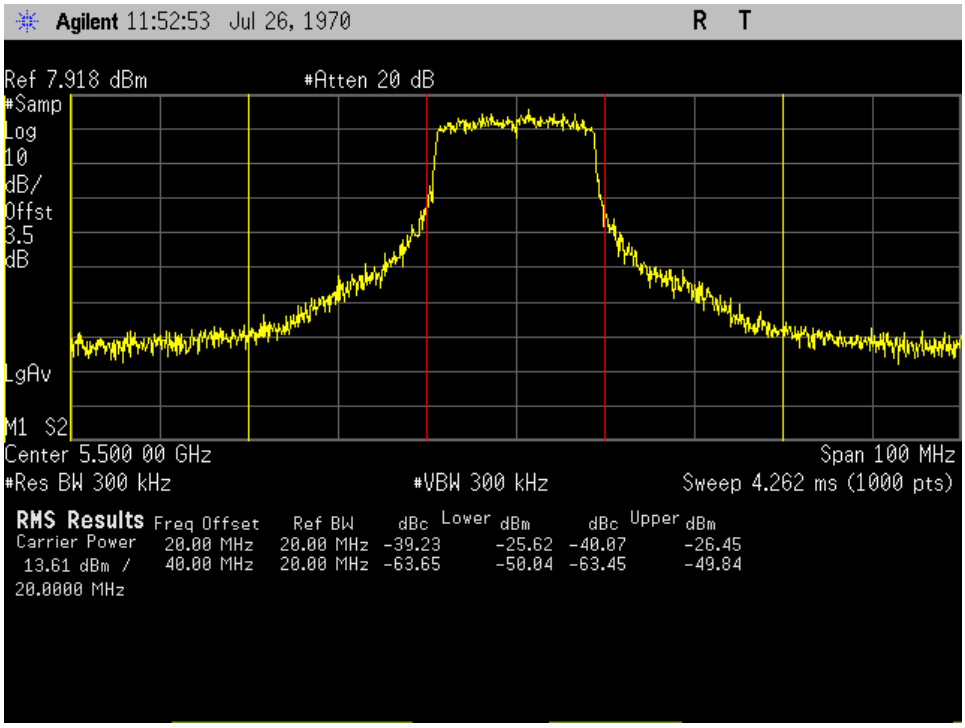


W56_5500MHz_Low Ch_100_20MHz BW_a-mode_Adjacent Ch Power_Port 2

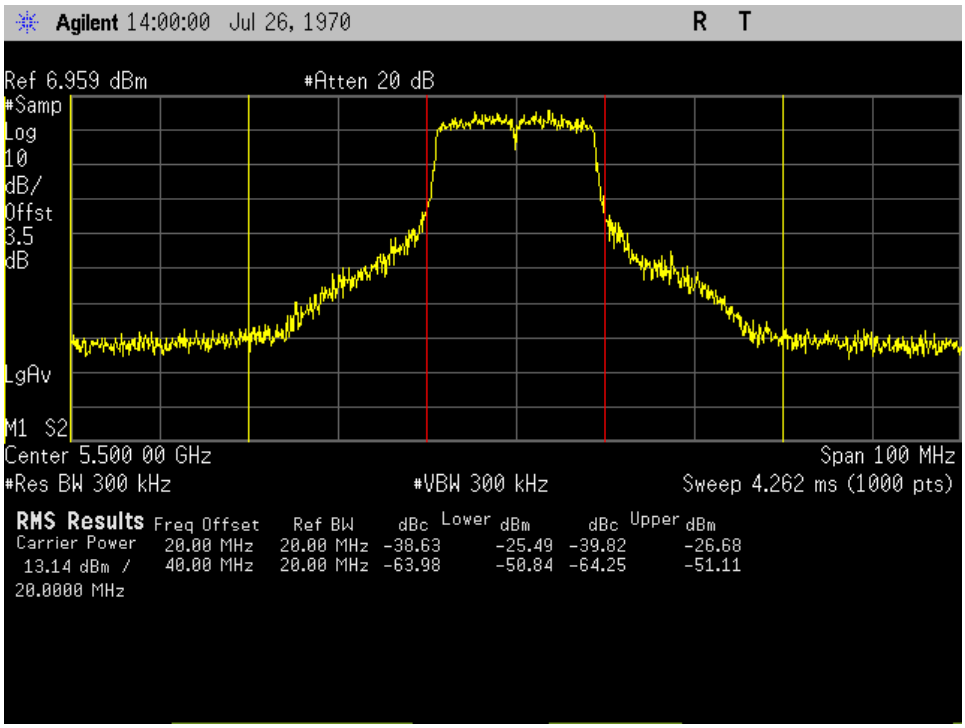


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W56_5500MHz_Low Ch_100_20MHz BW_ac-mode_Adjacent Ch Power_Port 1

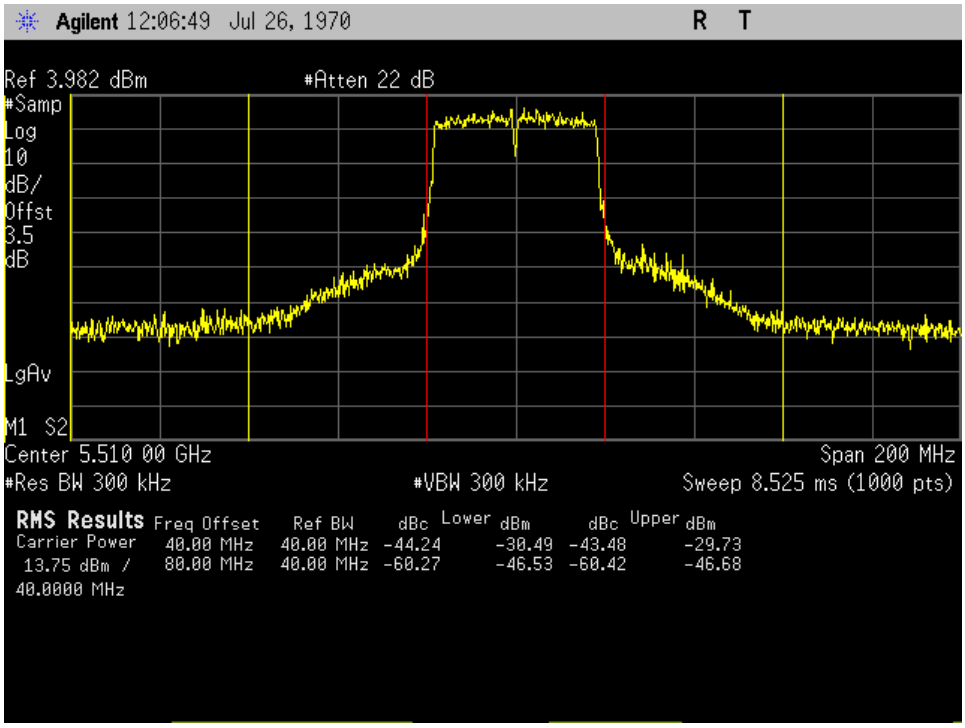


W56_5500MHz_Low Ch_100_20MHz BW_ac-mode_Adjacent Ch Power_Port 2

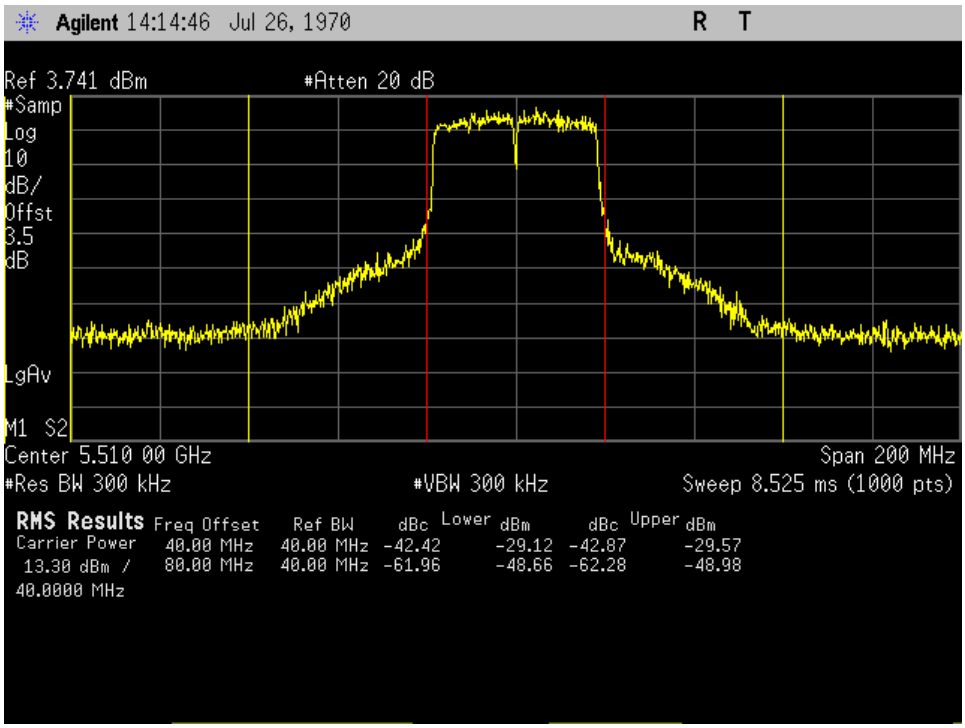


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W56_5510MHz_High Ch_102_40MHz BW_n-mode_Adjacent Ch Power_Port 1

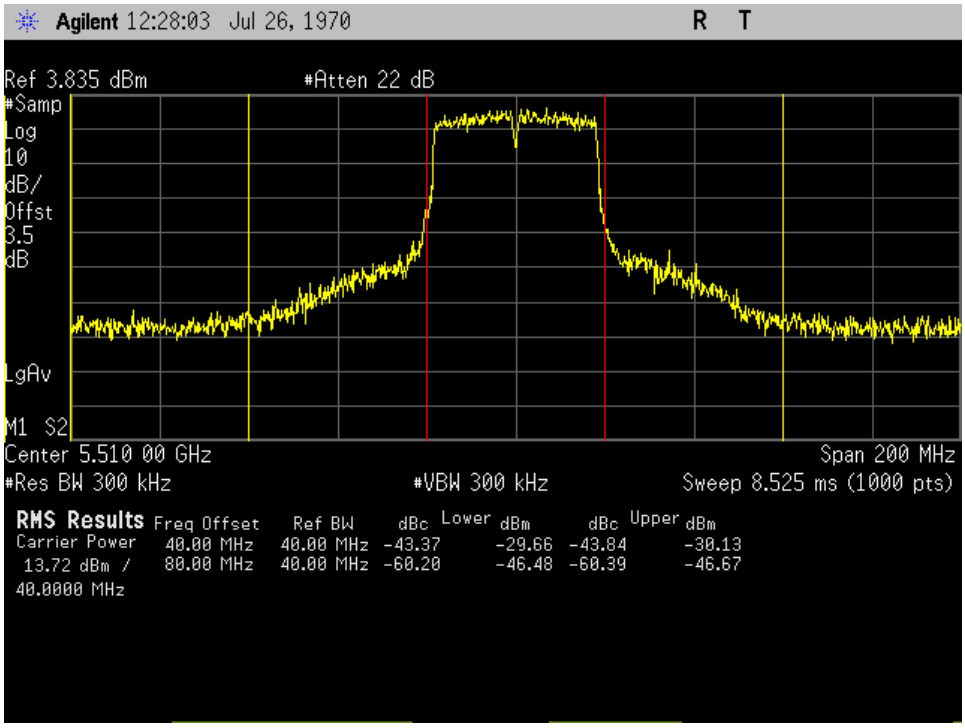


W56_5510MHz_High Ch_102_40MHz BW_n-mode_Adjacent Ch Power_Port 2

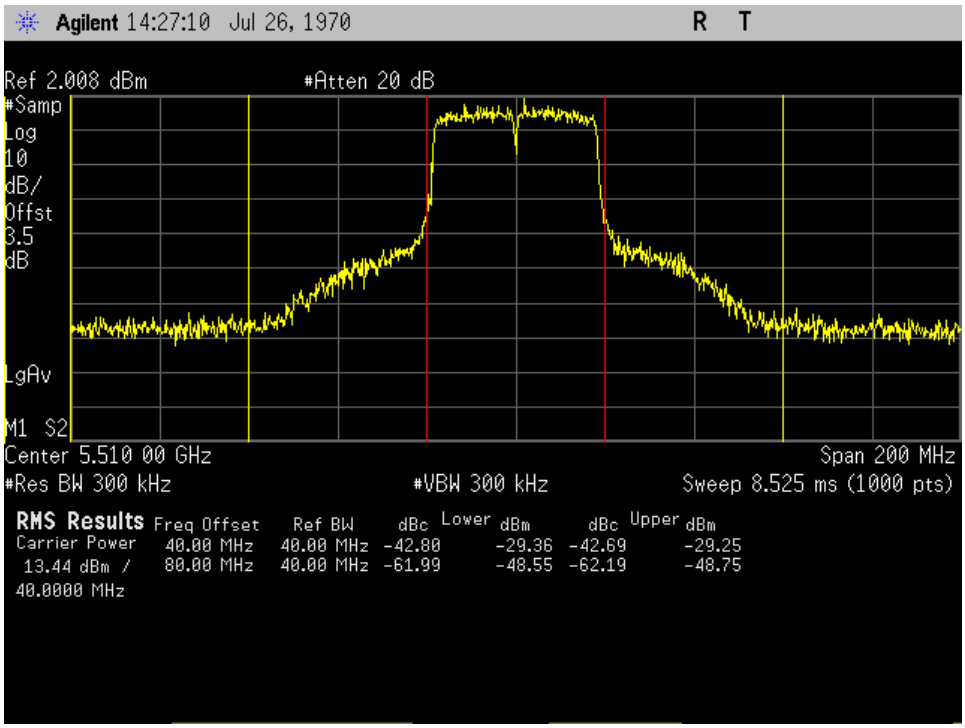


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W56_5510MHz_Mid Ch_102_40MHz BW_ac-mode_Adjacent Ch Power_Port 1

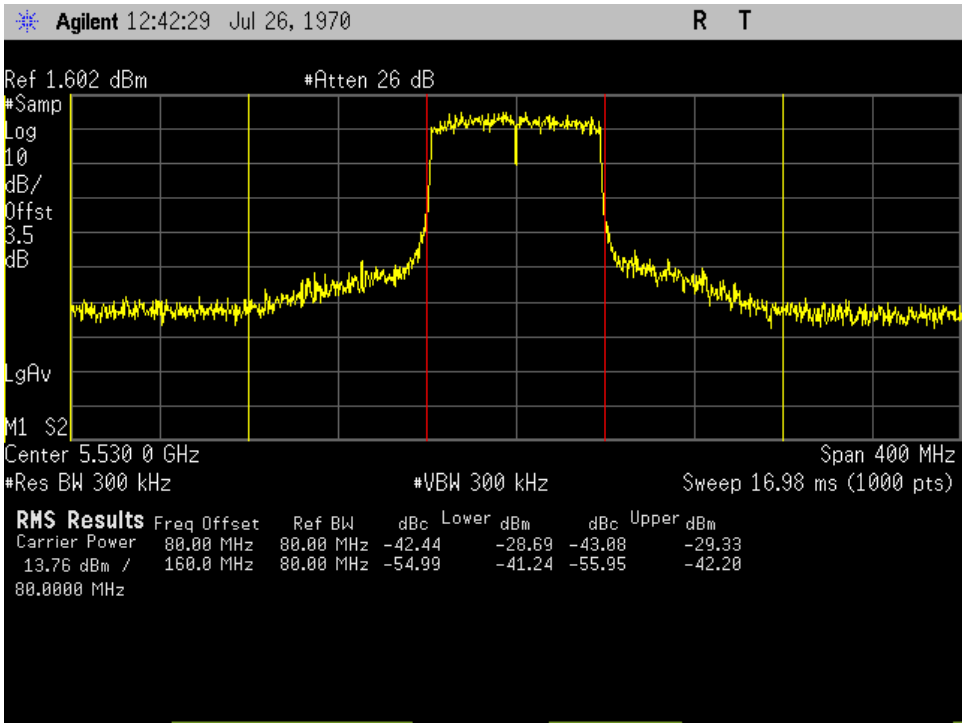


W56_5510MHz_Mid Ch_102_40MHz BW_ac-mode_Adjacent Ch Power_Port 2

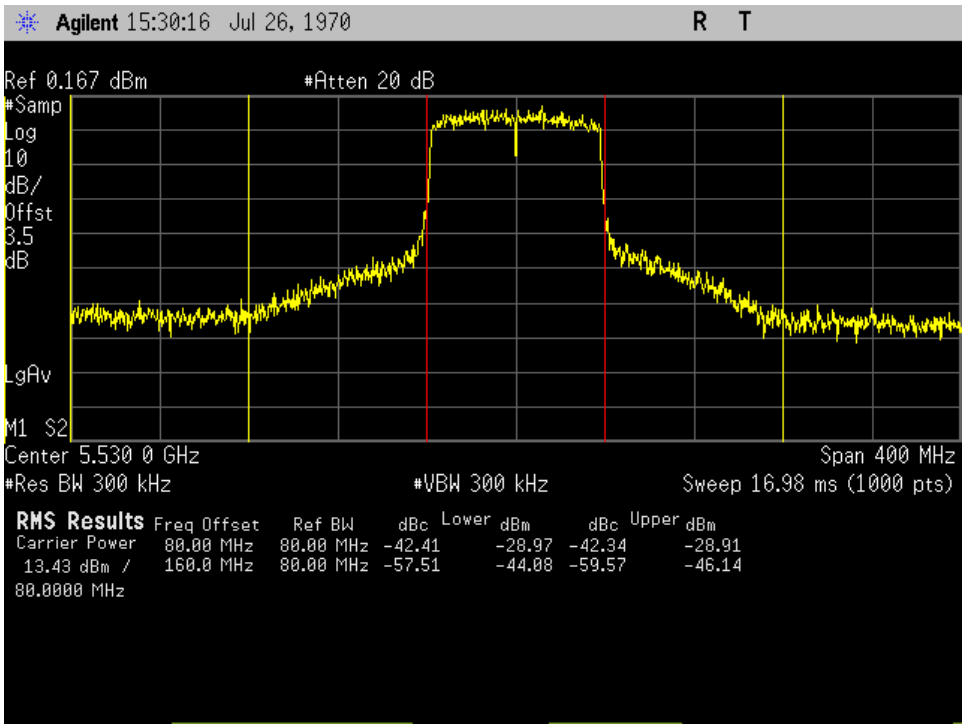


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W56_5530MHz_Low Ch_106_80MHz BW_ac-mode_Adjacent Ch Power_Port 1

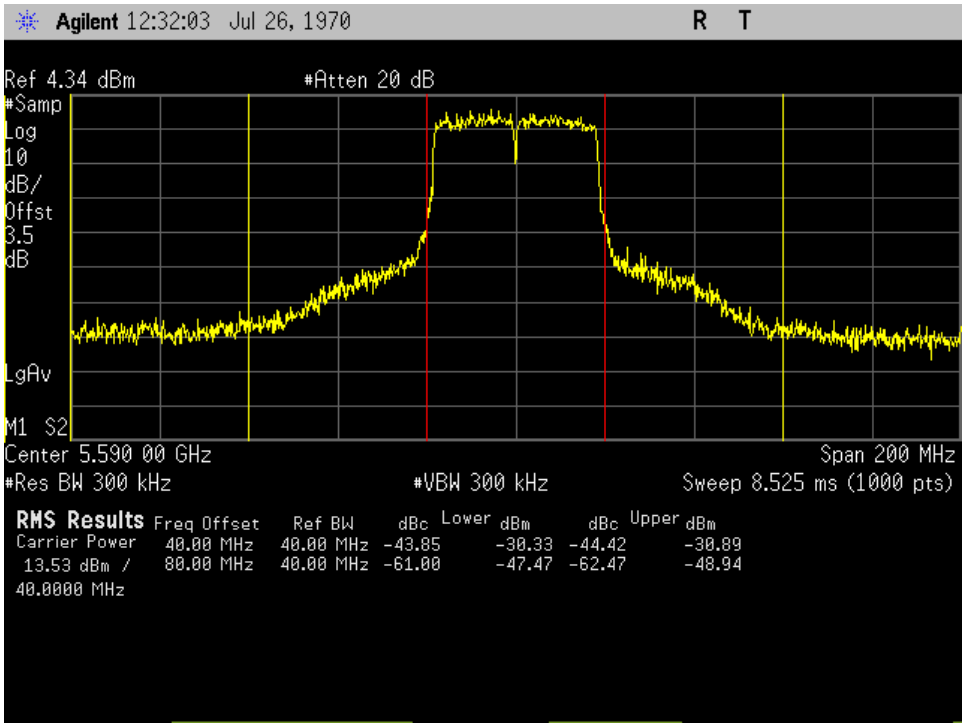


W56_5530MHz_Low Ch_106_80MHz BW_ac-mode_Adjacent Ch Power_Port 2

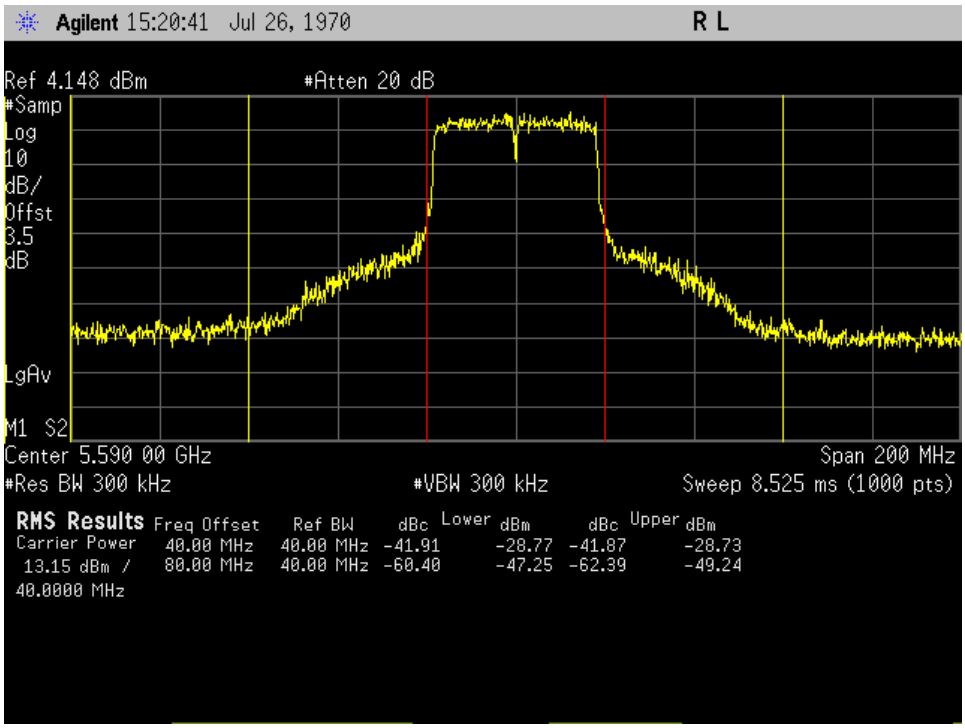


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W56_5590MHz_High Ch_118_40MHz BW_ac-mode_Adjacent Ch Power_Port 1

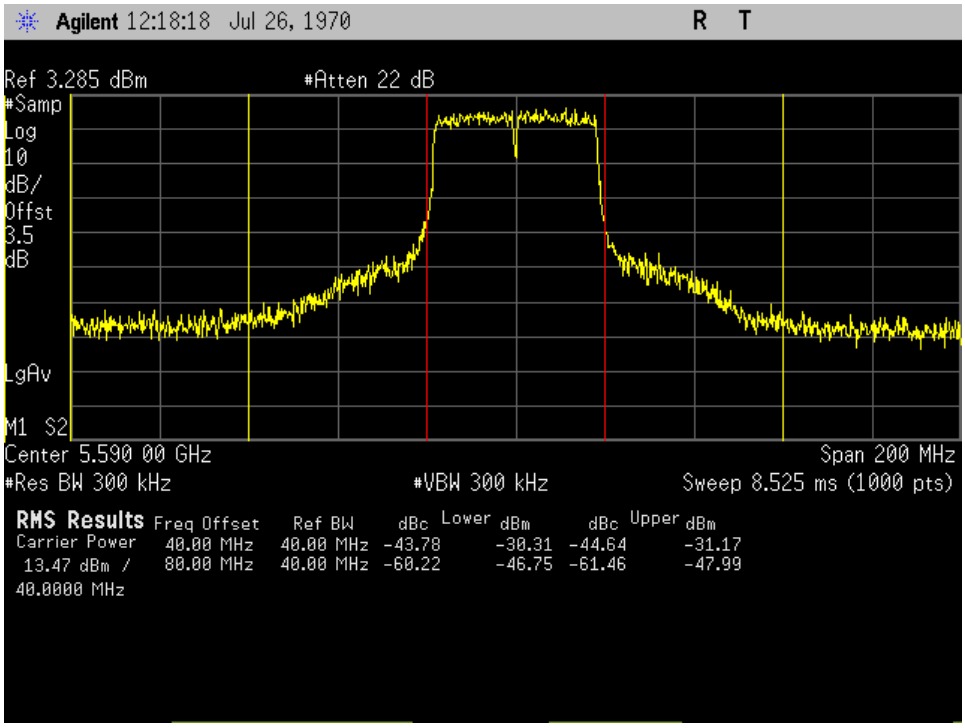


W56_5590MHz_High Ch_118_40MHz BW_ac-mode_Adjacent Ch Power_Port 2

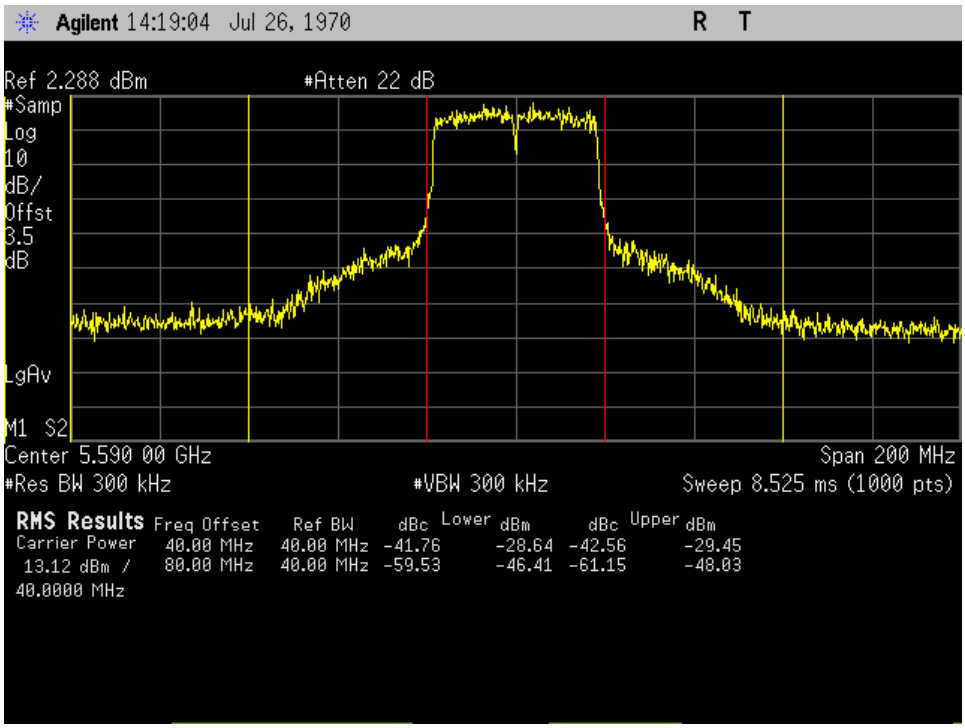


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W56_5590MHz_High Ch_118_40MHz BW_n-mode_Adjacent Ch Power_Port 1

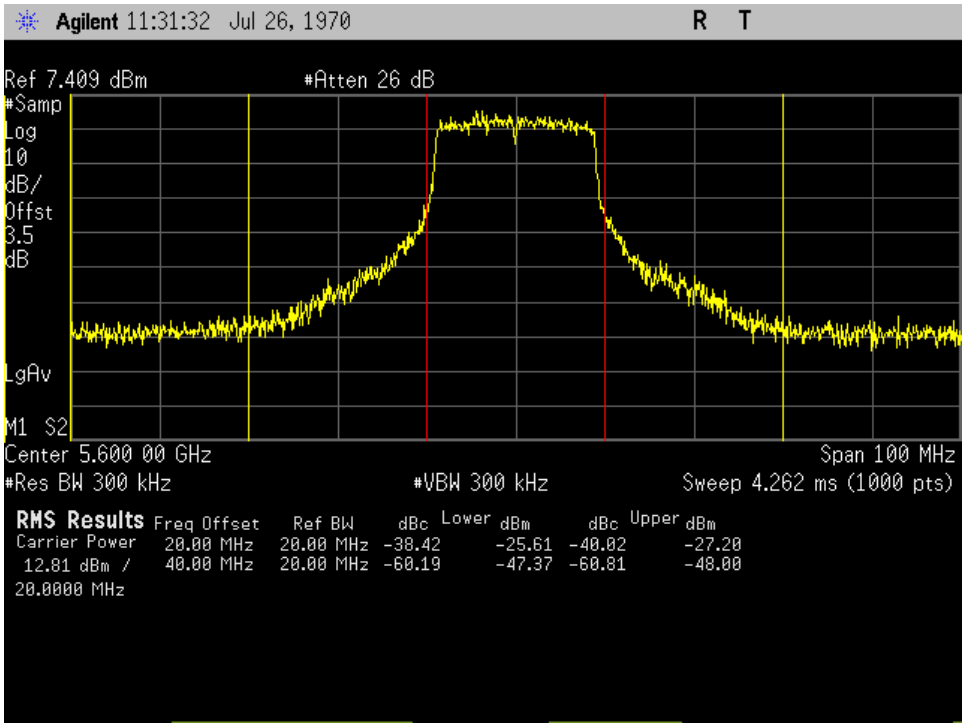


W56_5590MHz_High Ch_118_40MHz BW_n-mode_Adjacent Ch Power_Port 2

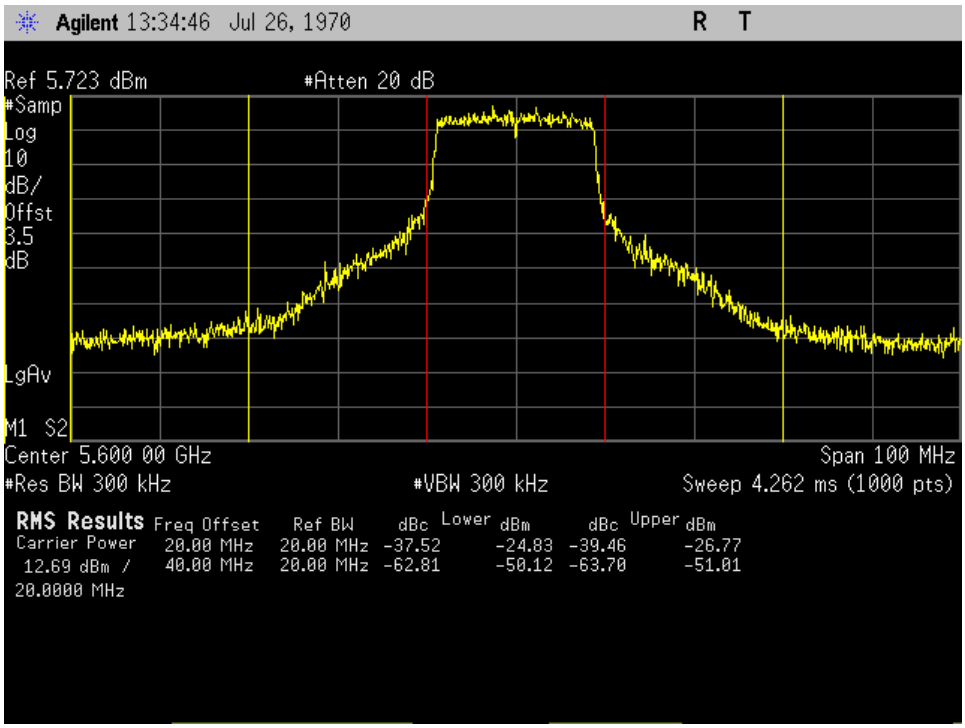


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W56_5600MHz_High Ch_120_20MHz BW_n-mode_Adjacent Ch Power_Port 1

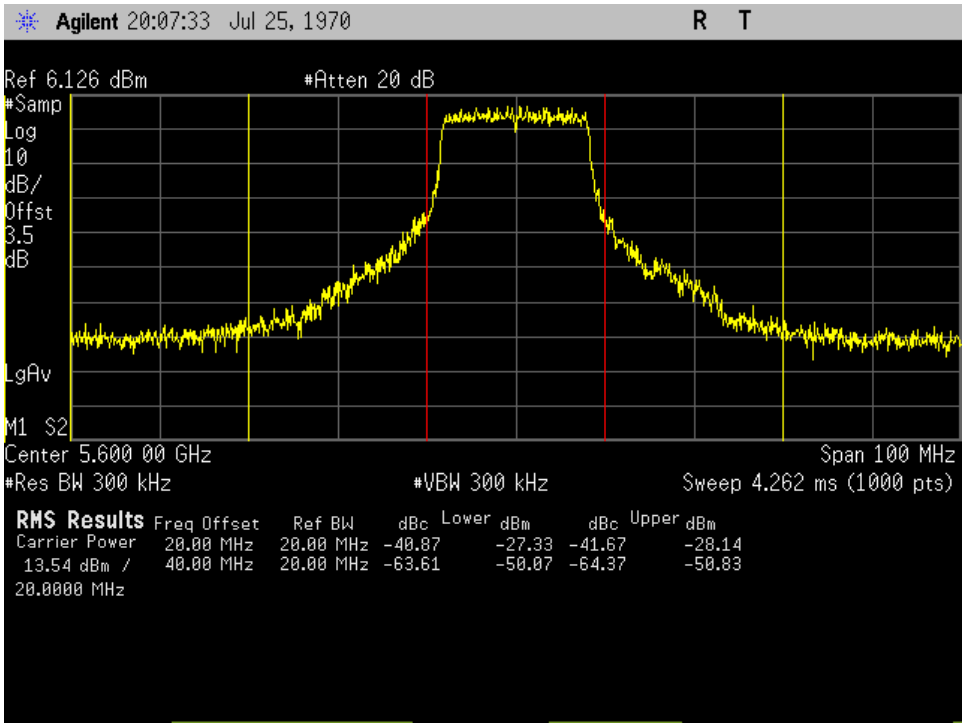


W56_5600MHz_High Ch_120_20MHz BW_n-mode_Adjacent Ch Power_Port 2

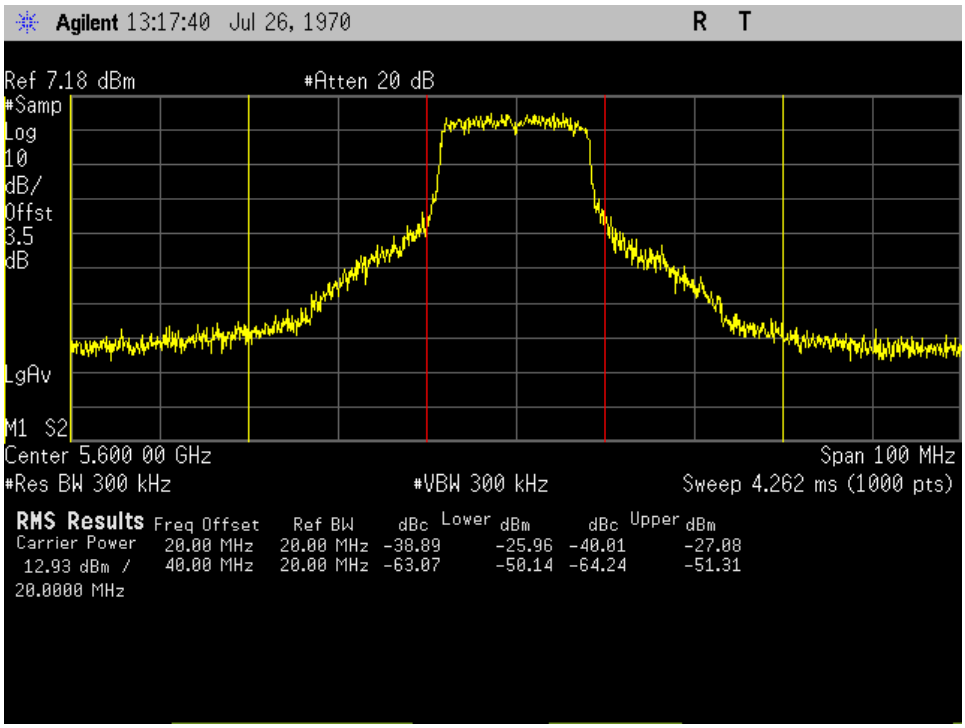


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W56_5600MHz_Mid Ch_120_20MHz BW_a-mode_Adjacent Ch Power_Port 1

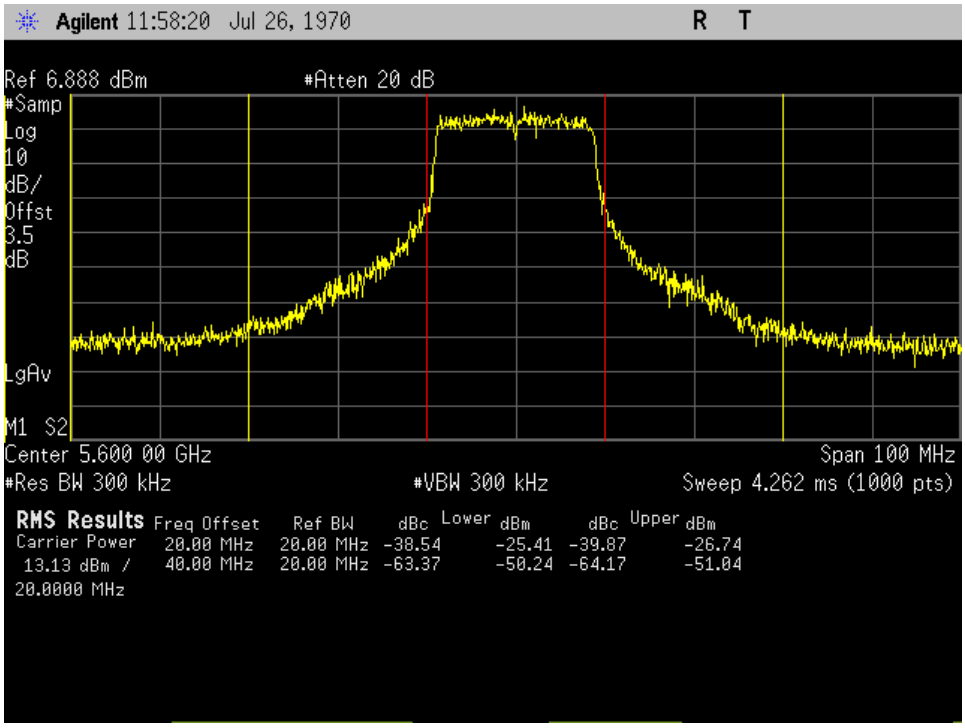


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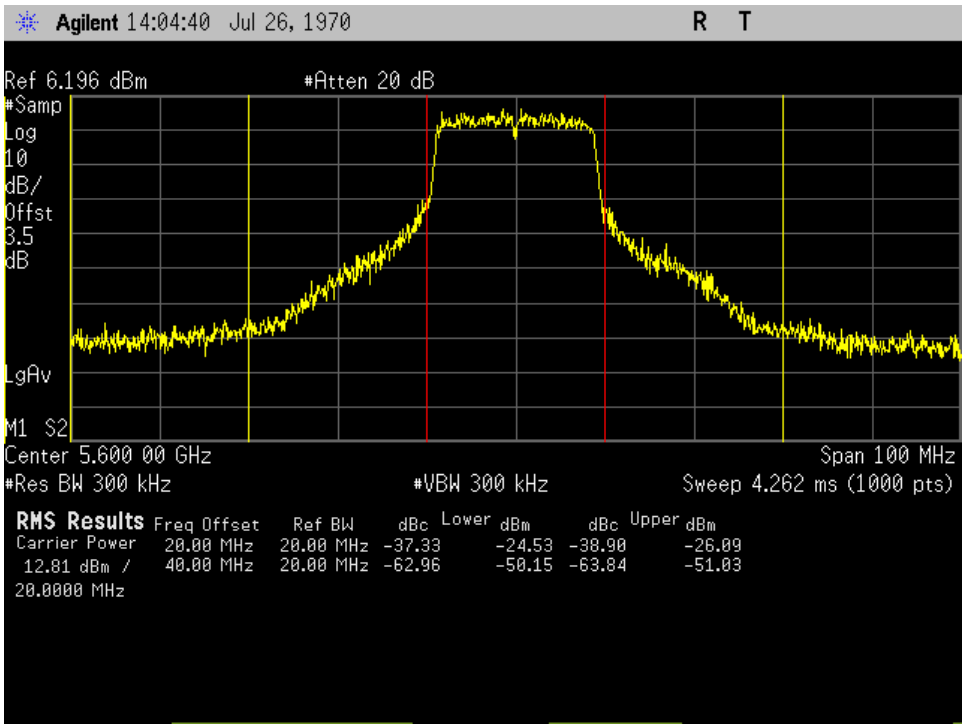


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W56_5600MHz_Mid Ch_120_20MHz BW_ac-mode_Adjacent Ch Power_Port 1

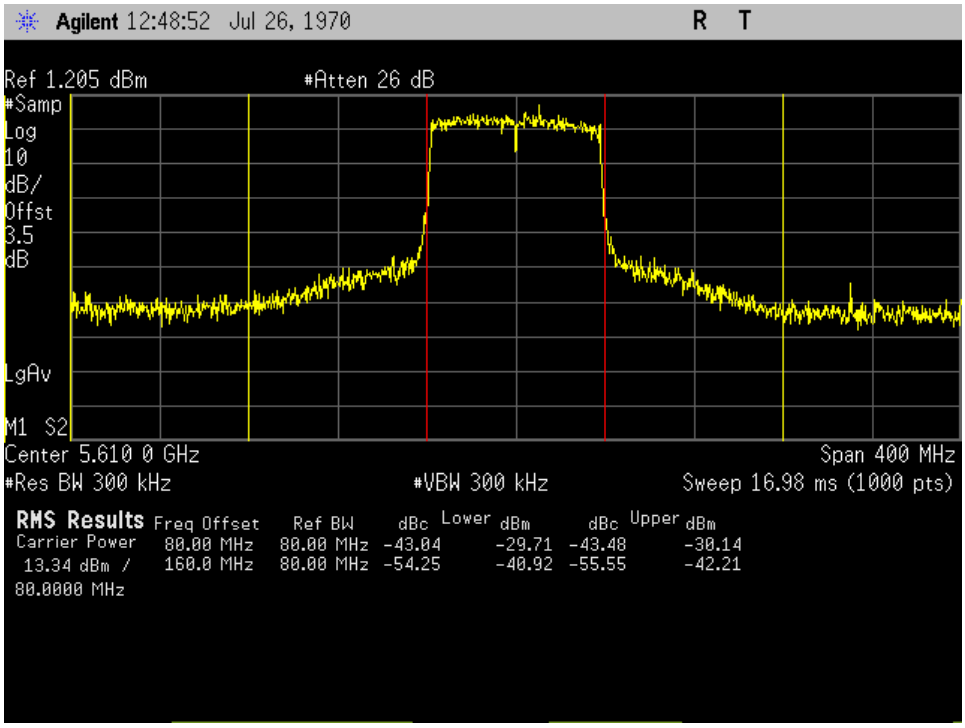


W56_5600MHz_Mid Ch_120_20MHz BW_ac-mode_Adjacent Ch Power_Port 2

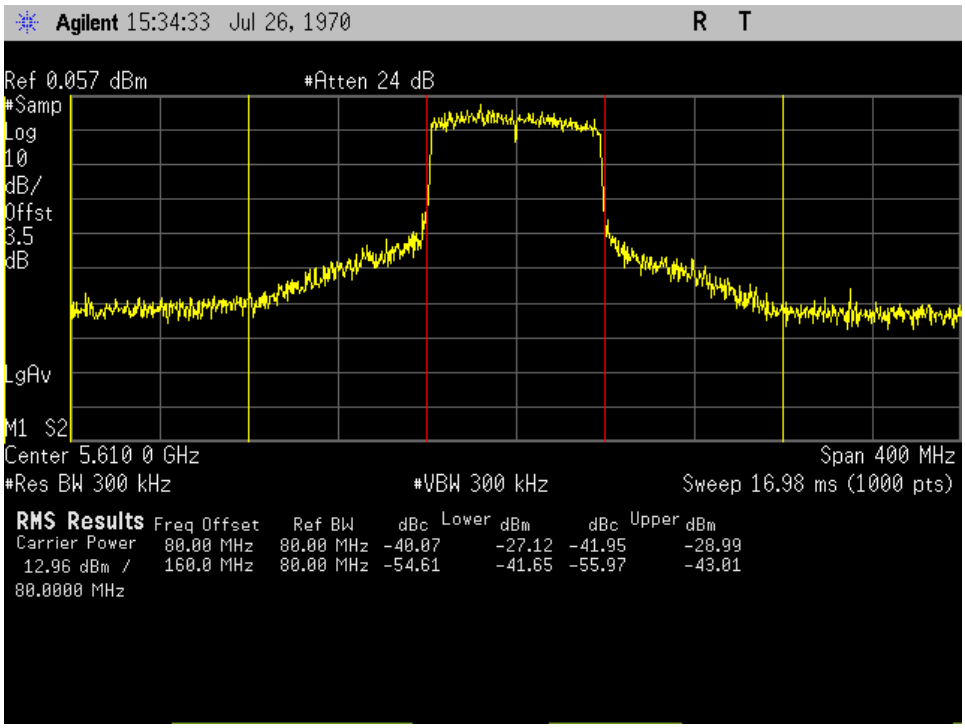


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W56_5610MHz_Mid Ch_122_80MHz BW_ac-mode_Adjacent Ch Power_Port 1

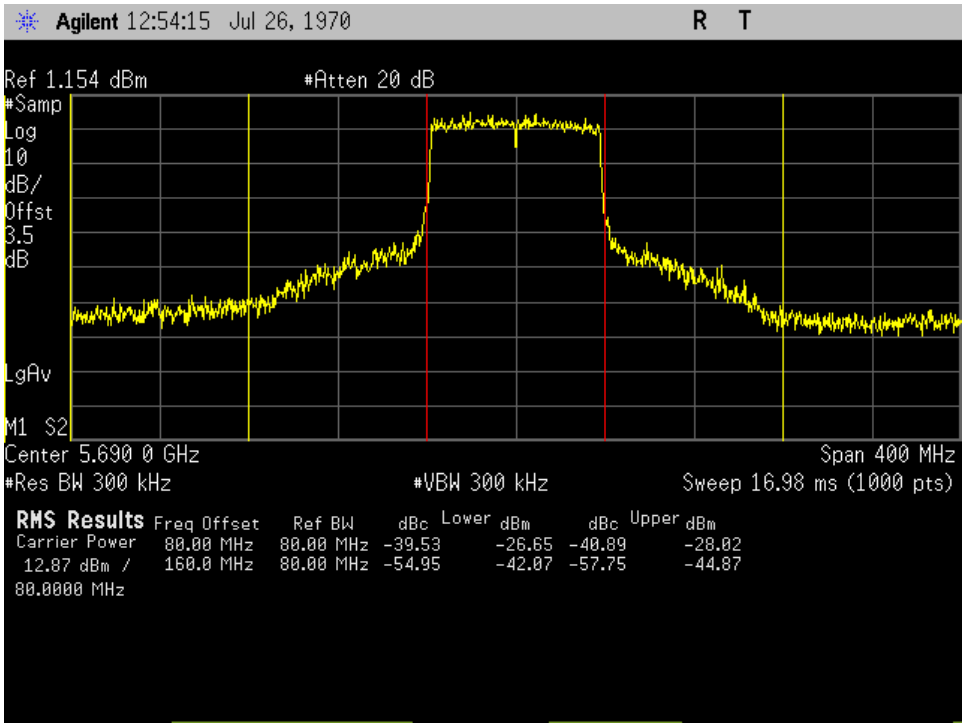


W56_5610MHz_Mid Ch_122_80MHz BW_ac-mode_Adjacent Ch Power_Port 2

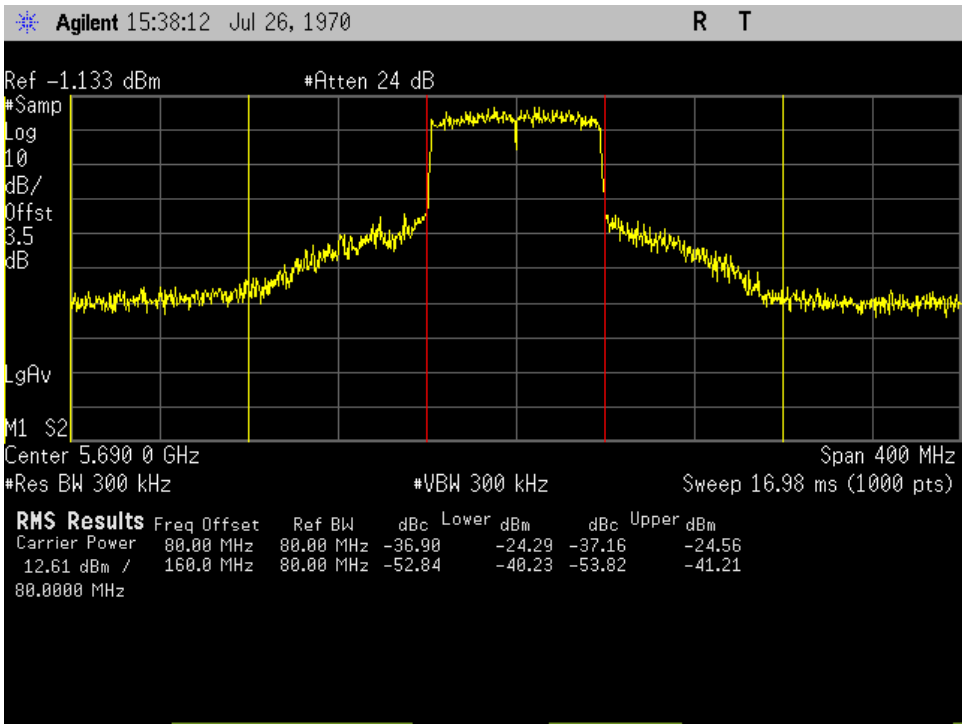


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W56_5690MHz_High Ch_138_80MHz BW_ac-mode_Adjacent Ch Power_Port 1

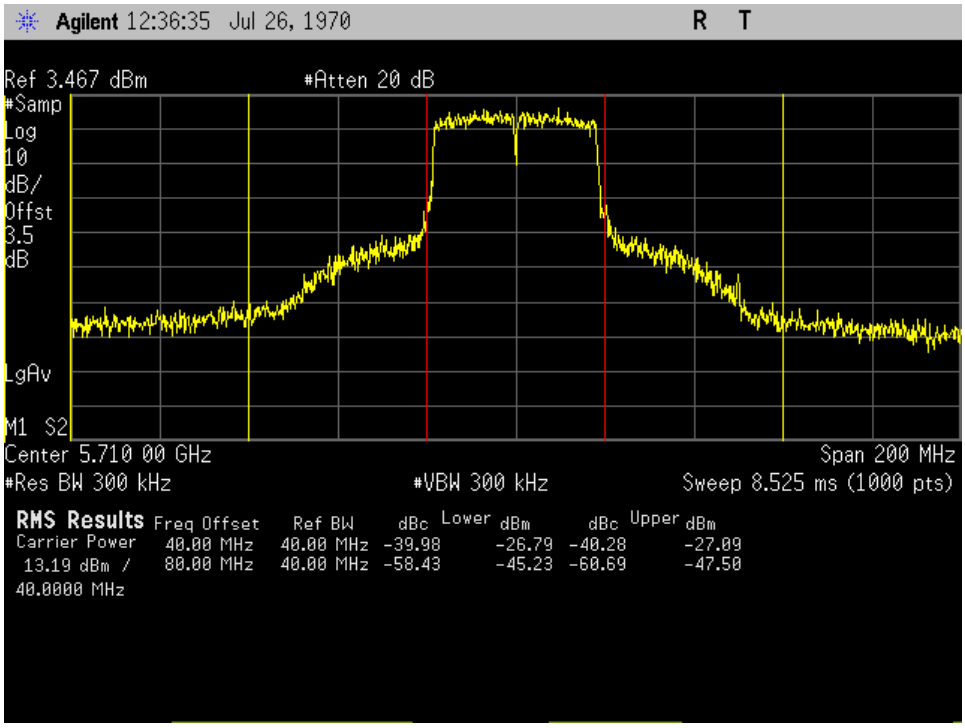


W56_5690MHz_High Ch_138_80MHz BW_ac-mode_Adjacent Ch Power_Port 2

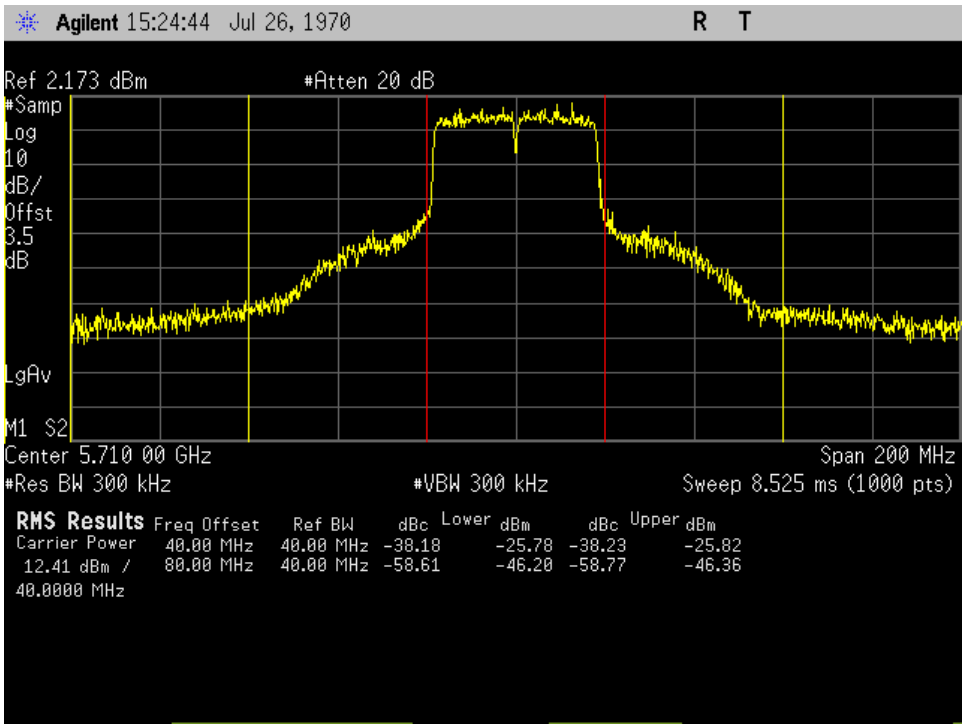


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W56_5710MHz_High Ch_142_40MHz BW_ac-mode_Adjacent Ch Power_Port 1

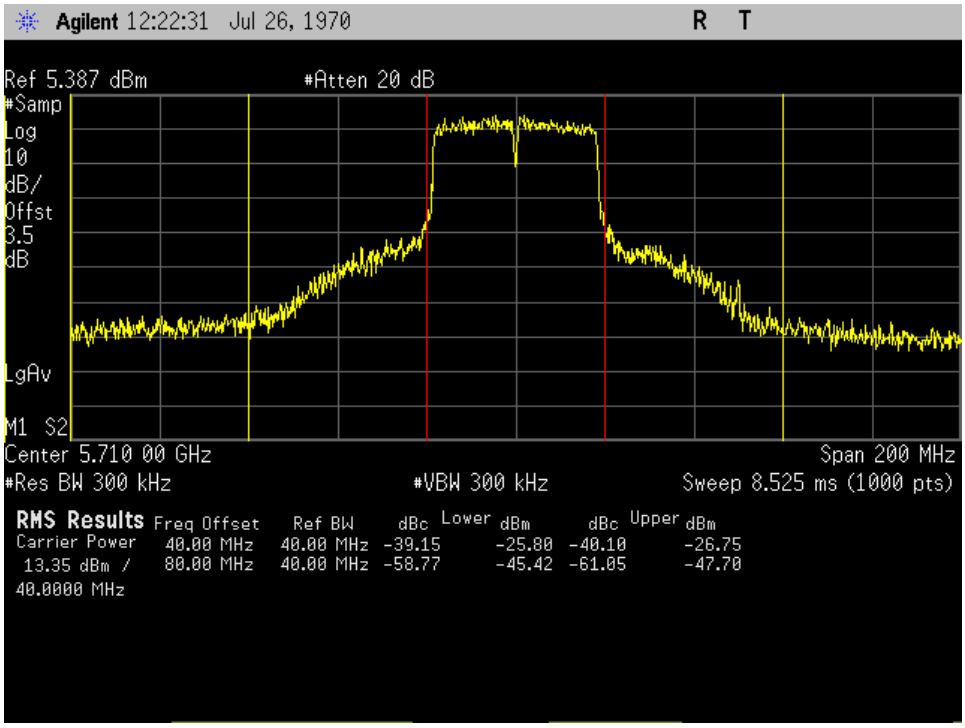


W56_5710MHz_High Ch_142_40MHz BW_ac-mode_Adjacent Ch Power_Port 2

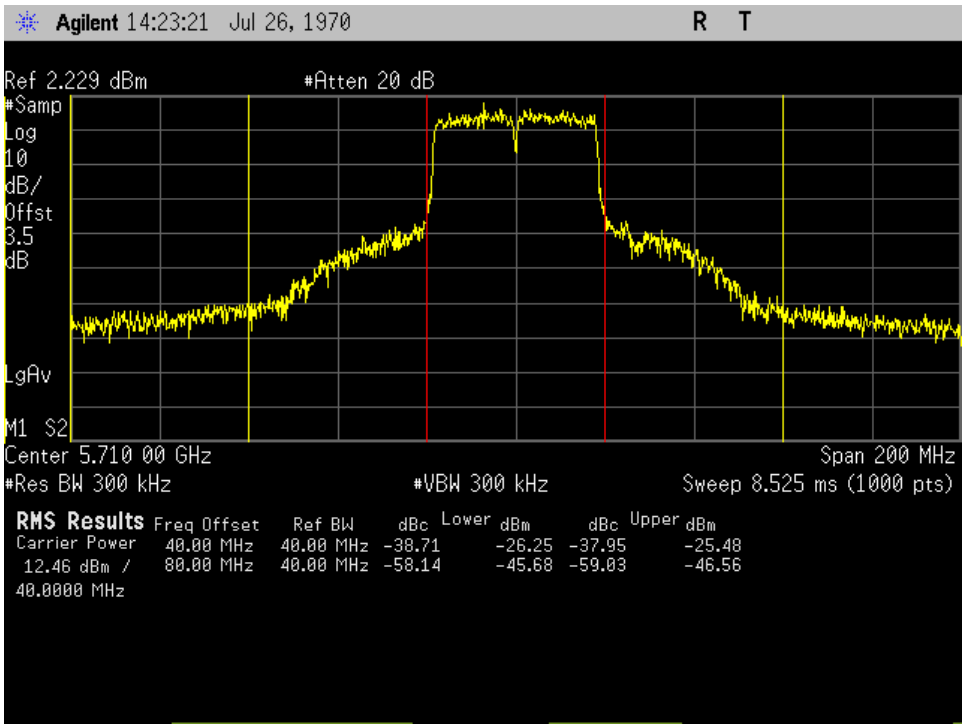


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W56_5710MHz_Low Ch_142_40MHz BW_n-mode_Adjacent Ch Power_Port 1

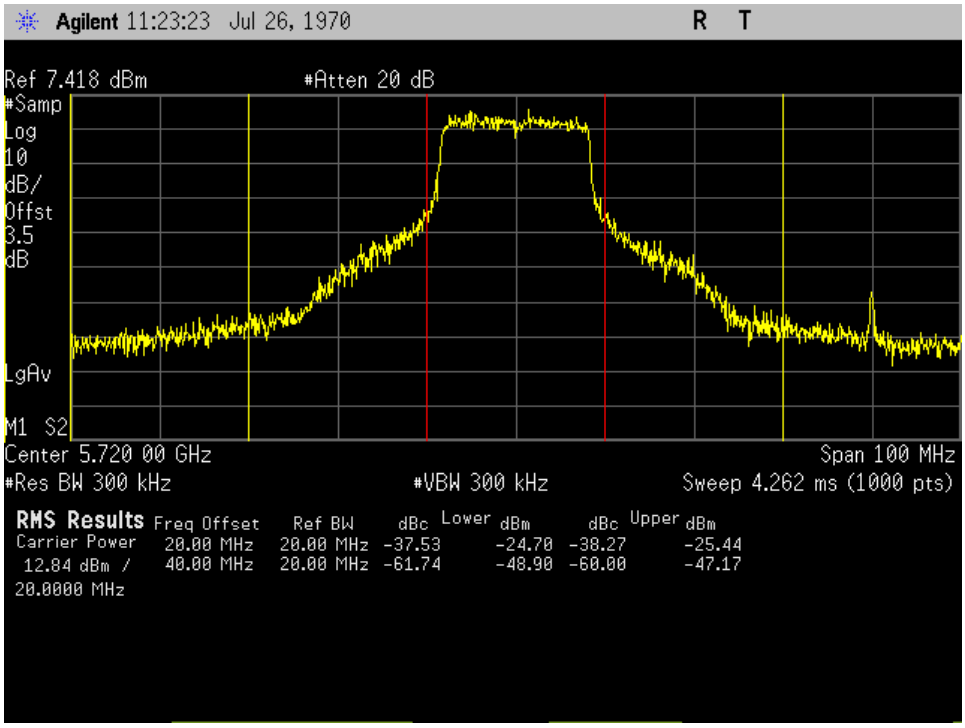


W56_5710MHz_Low Ch_142_40MHz BW_n-mode_Adjacent Ch Power_Port 2

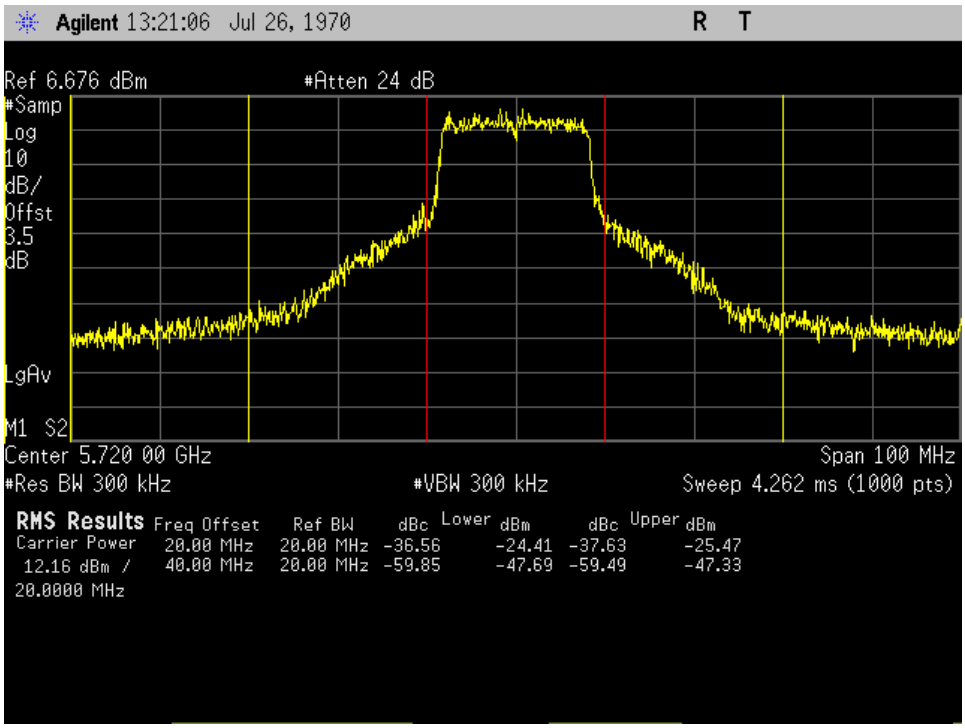


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W56_5720MHz_High Ch_144_20MHz BW_a-mode_Adjacent Ch Power_Port 1

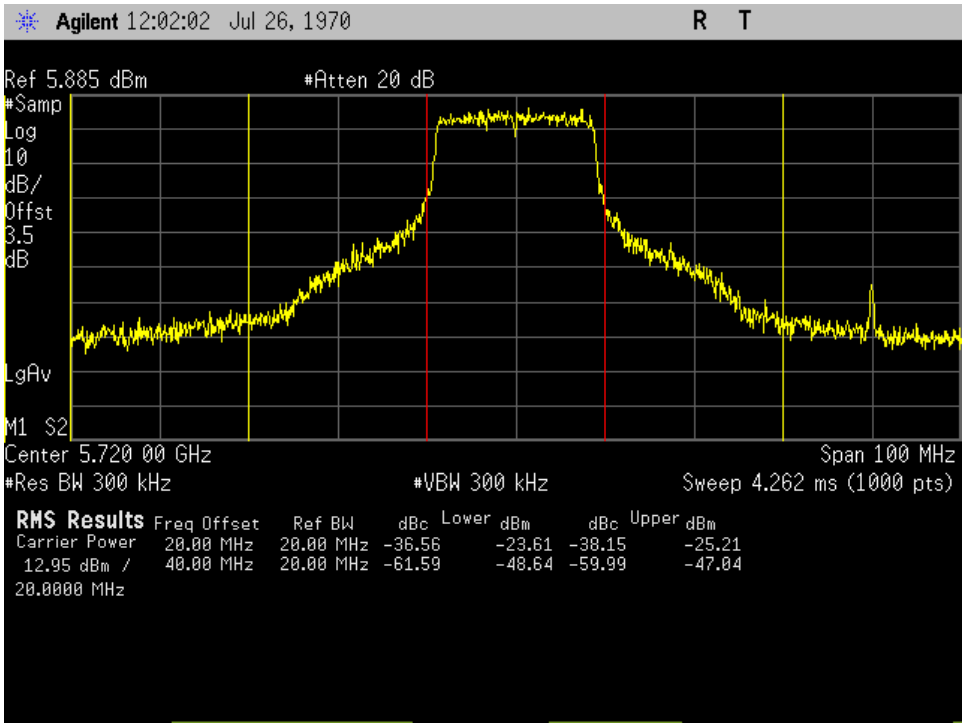


W56_5720MHz_High Ch_144_20MHz BW_a-mode_Adjacent Ch Power_Port 2

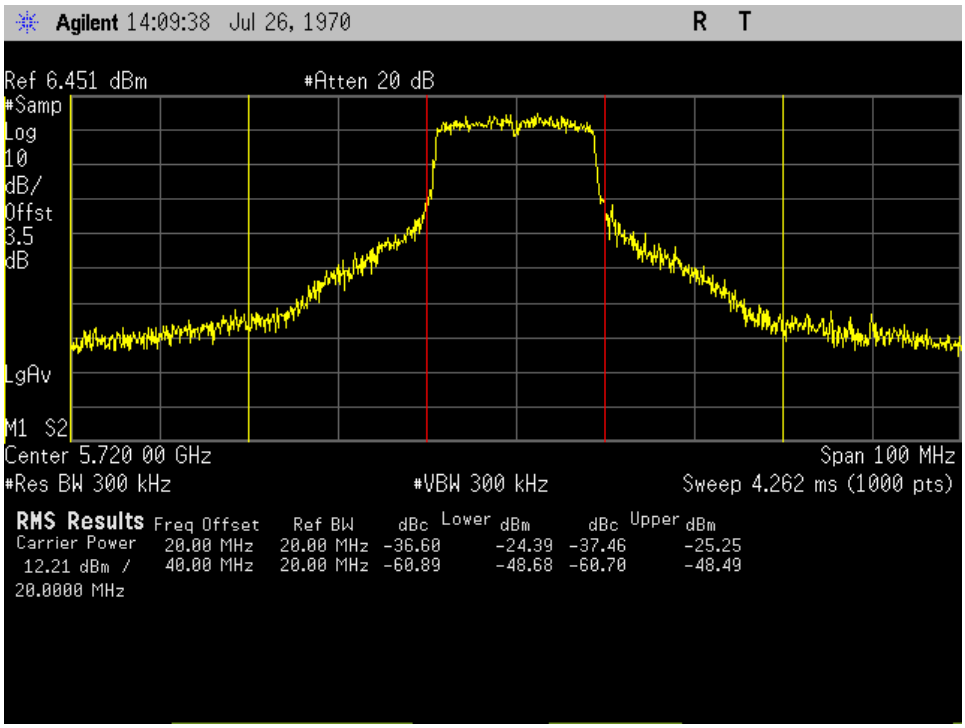


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W56_5720MHz_High Ch_144_20MHz BW_ac-mode_Adjacent Ch Power_Port 1

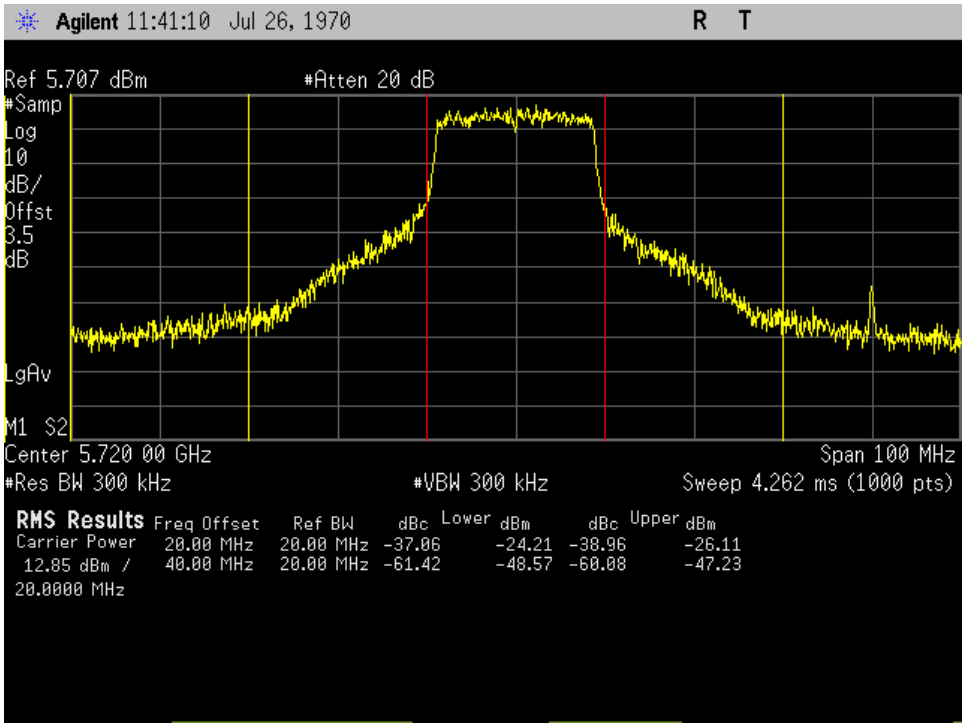


W56_5720MHz_High Ch_144_20MHz BW_ac-mode_Adjacent Ch Power_Port 2

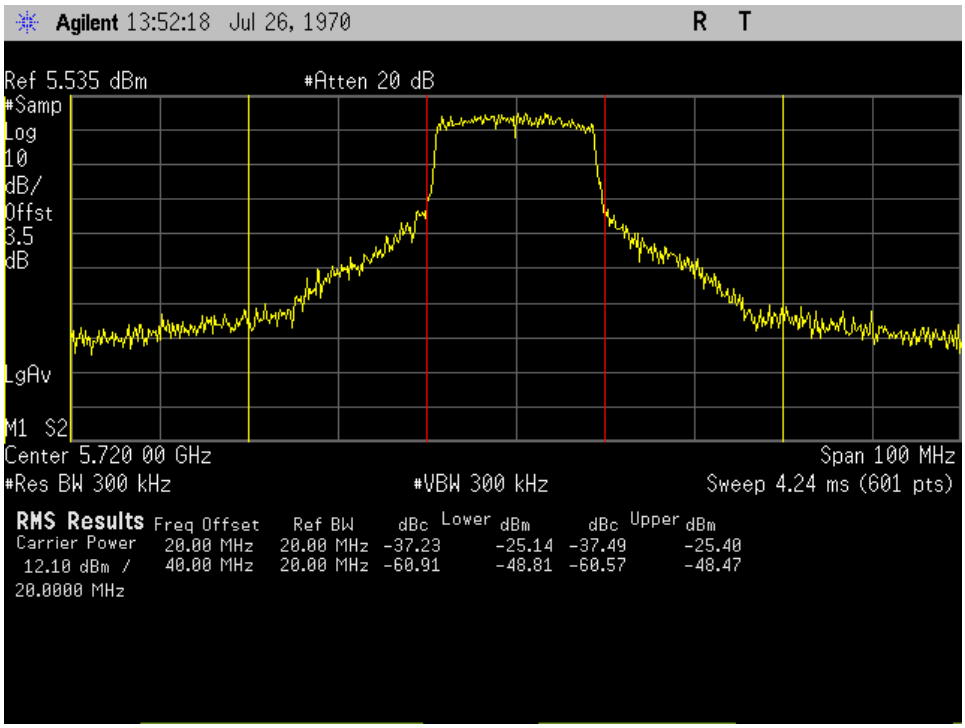


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W56_5720MHz_Low Ch_144_20MHz BW_n-mode_Adjacent Ch Power_Port 1

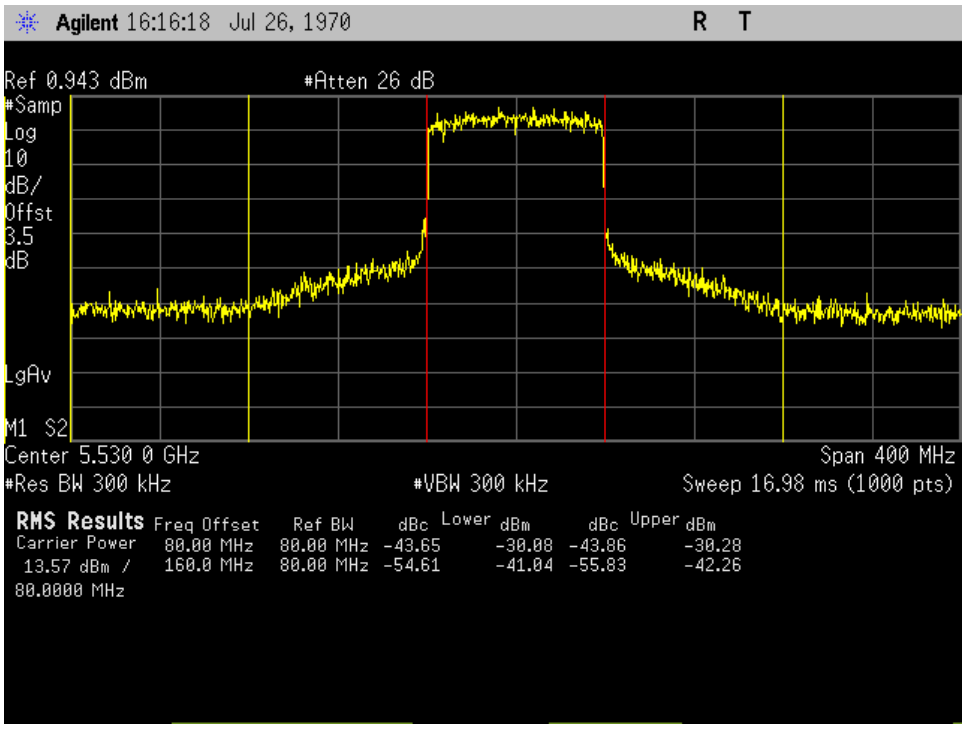


W56_5720MHz_Low Ch_144_20MHz BW_n-mode_Adjacent Ch Power_Port 2



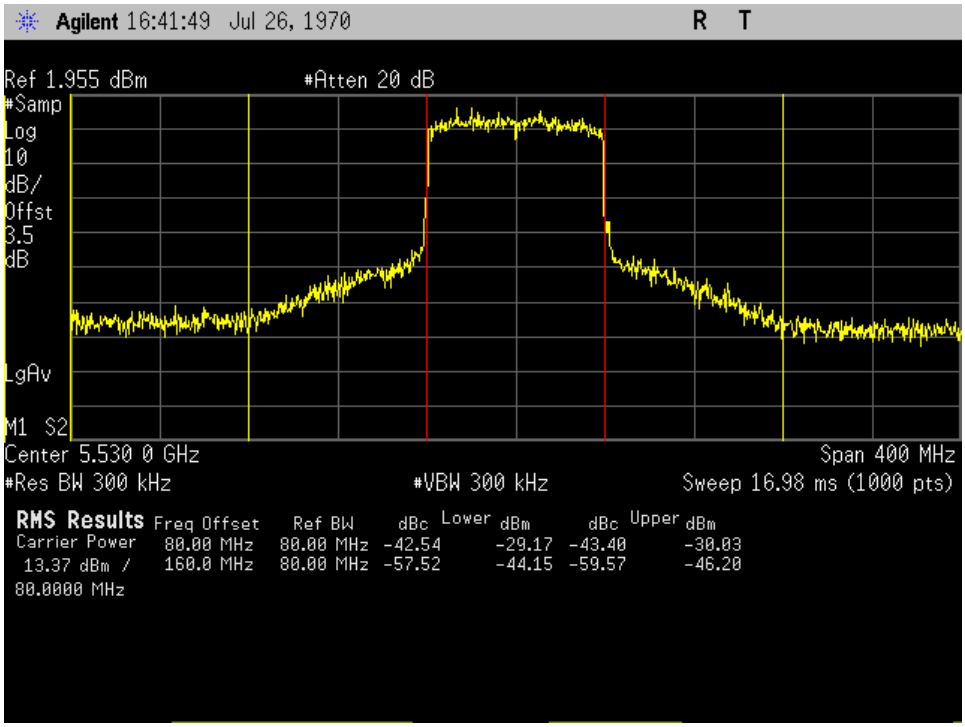
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W56_5530MHz_Low Ch_106_80MHz BW_ac-mode_Adjacent Ch Power_Port 1



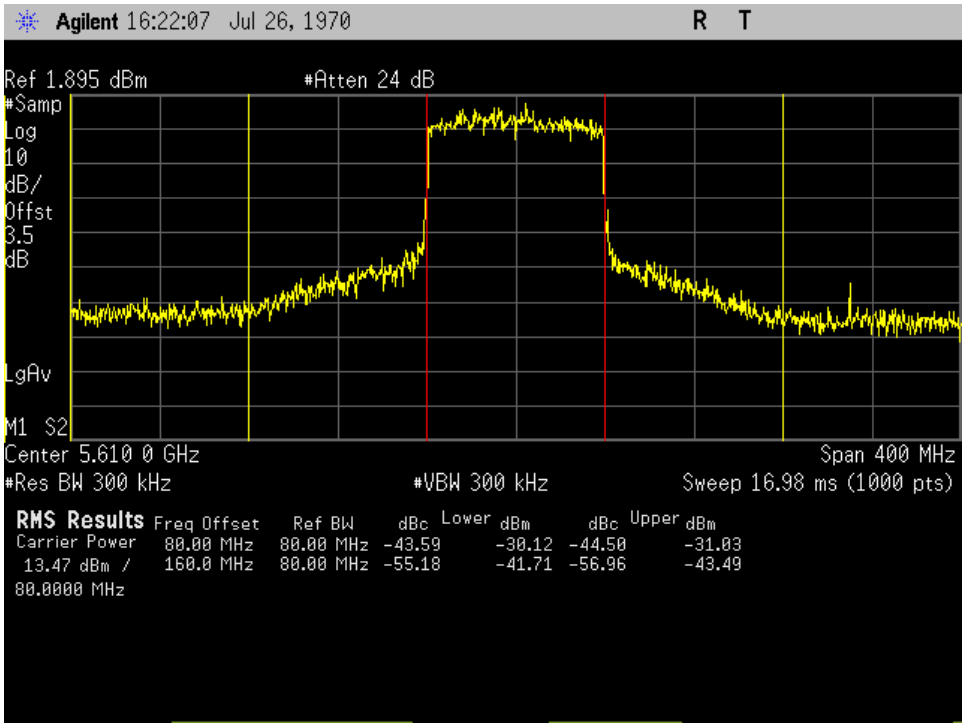
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W56_5530MHz_Low Ch_106_80MHz BW_ac-mode_Adjacent Ch Power_Port 2

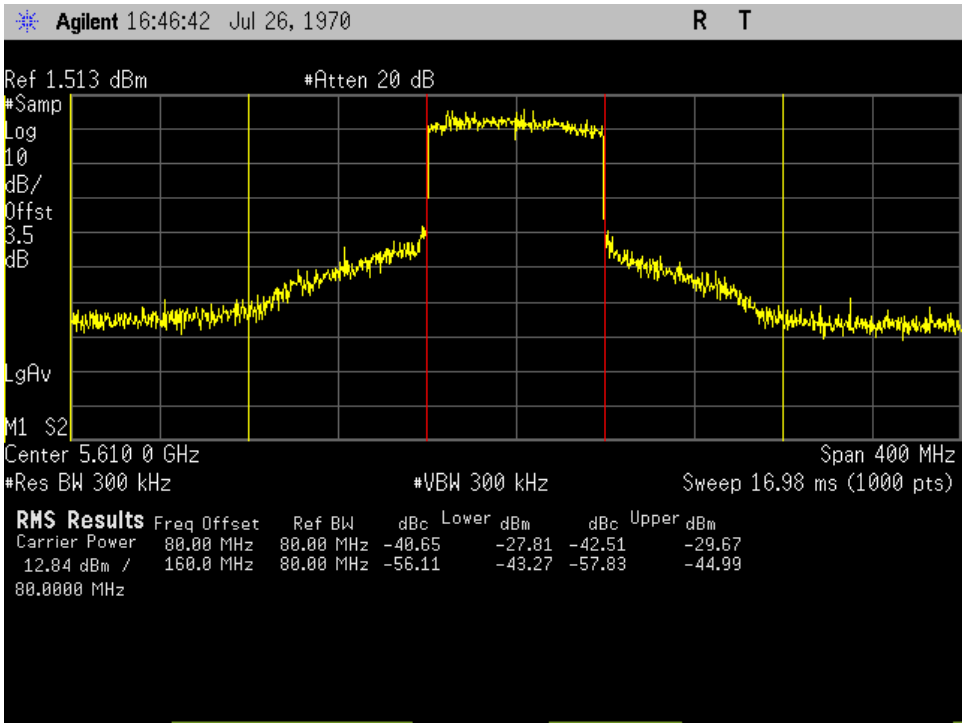


W56_5610MHz_Mid Ch_122_80MHz BW_ac-mode_Adjacent Ch Power_Port 1

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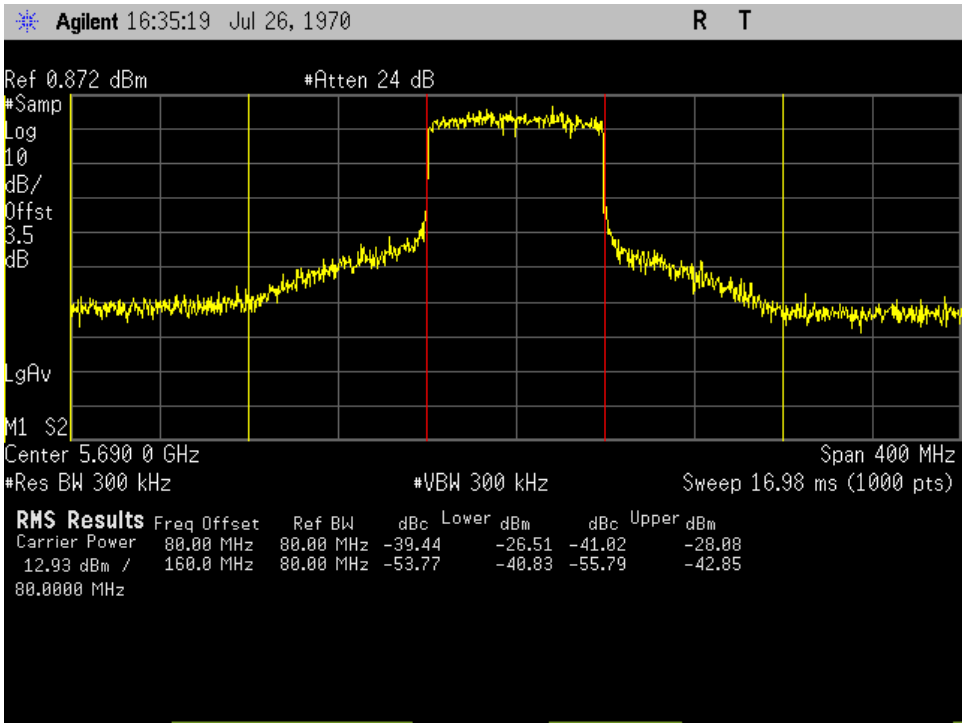


W56_5610MHz_Mid Ch_122_80MHz BW_ac-mode_Adjacent Ch Power_Port 2

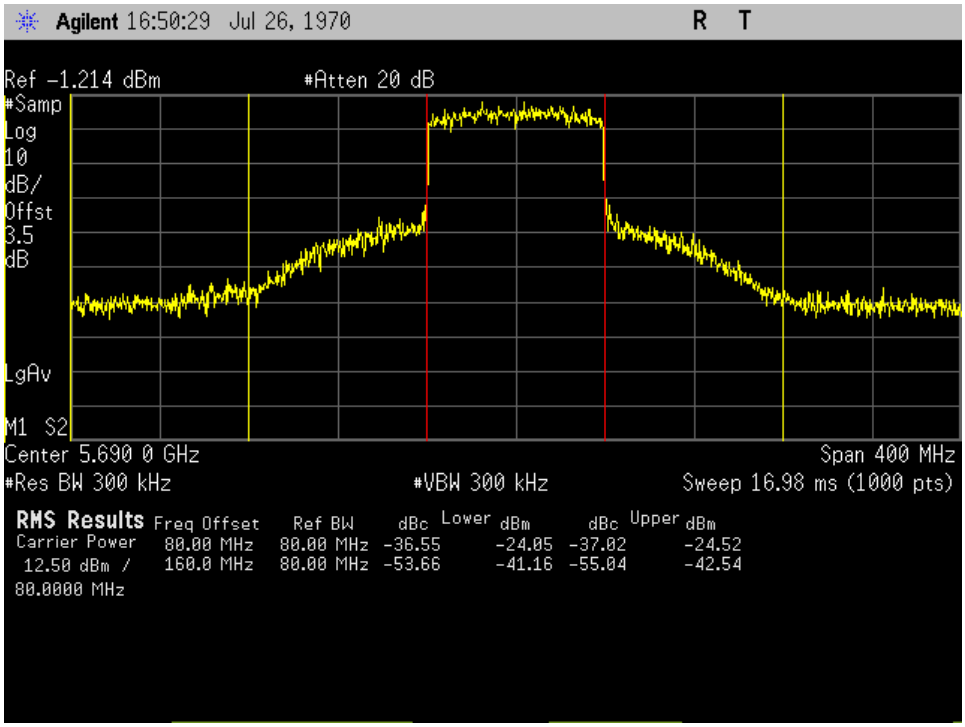


W56_5690MHz_High Ch_138_80MHz BW_ac-mode_Adjacent Ch Power_Port 1

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W56_5690MHz_High Ch_138_80MHz BW_ac-mode_Adjacent Ch Power_Port 2

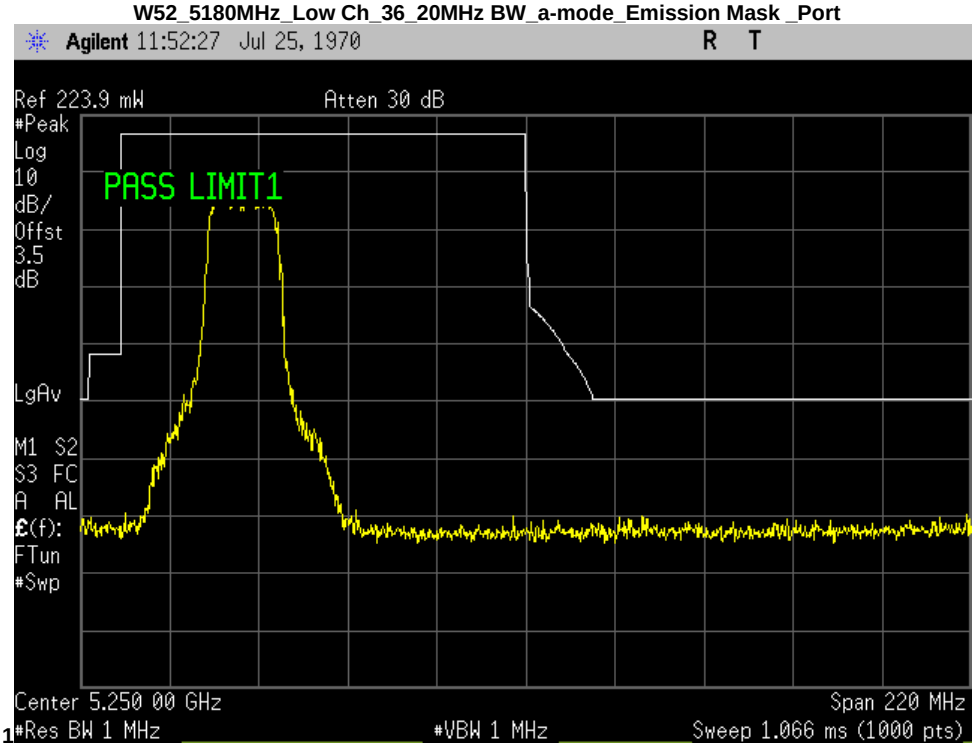


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Leakage Power Plots (Band W52)

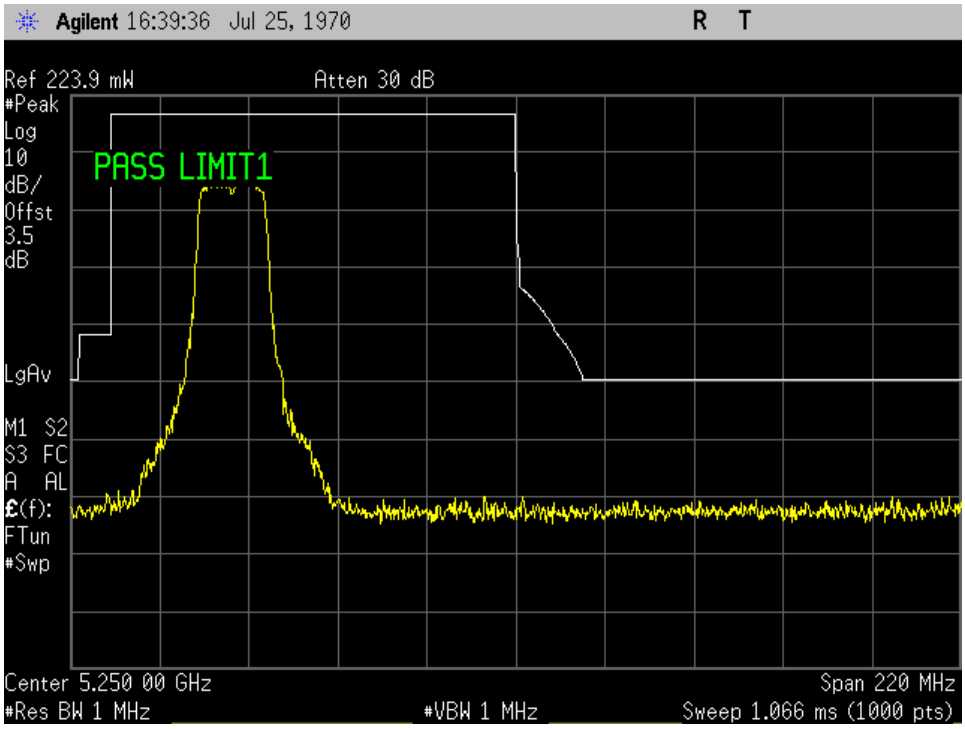
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W52_5180MHz_Low Ch_36_20MHz BW_a-mode_Emission Mask _Port



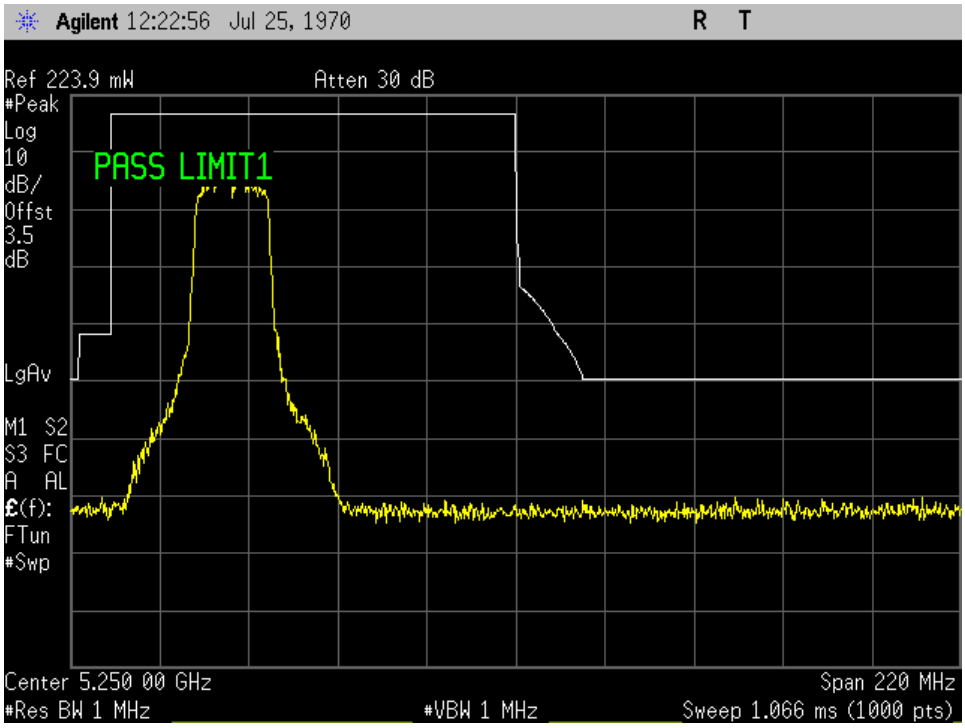
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W52_5180MHz_Low Ch_36_20MHz BW_a-mode_Emission Mask _Port 2

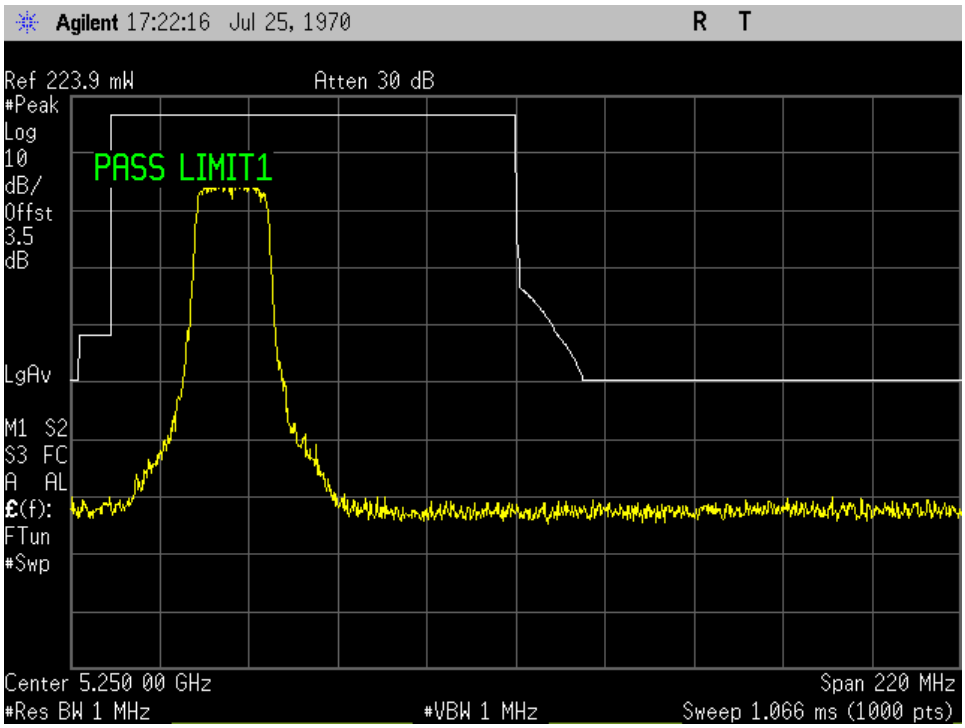


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W52_5180MHz_Low Ch_36_20MHz BW_n-mode_Emission Mask _Port 1

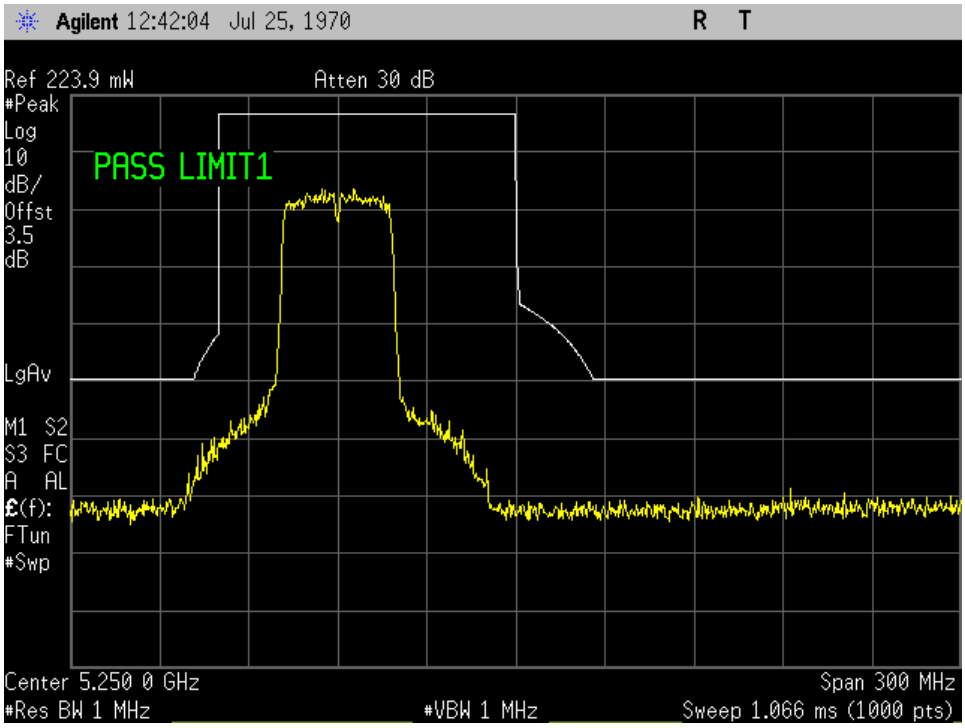


W52_5180MHz_Low Ch_36_20MHz BW_n-mode_Emission Mask _Port 2

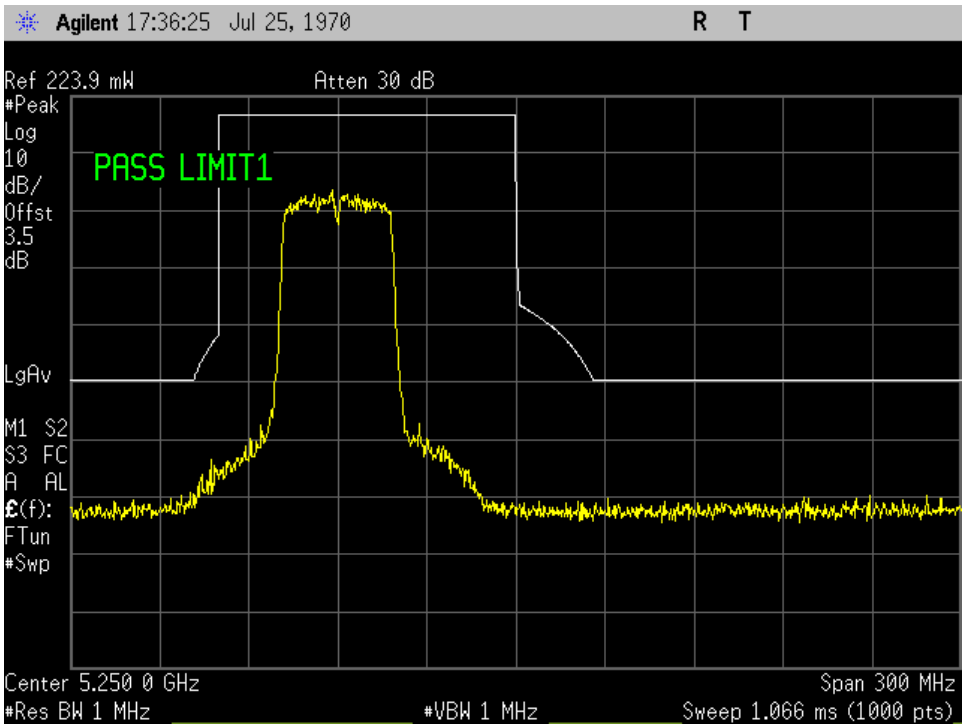


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W52_5190MHz_Low Ch_38_40MHz BW_n-mode_Emission Mask _Port 1

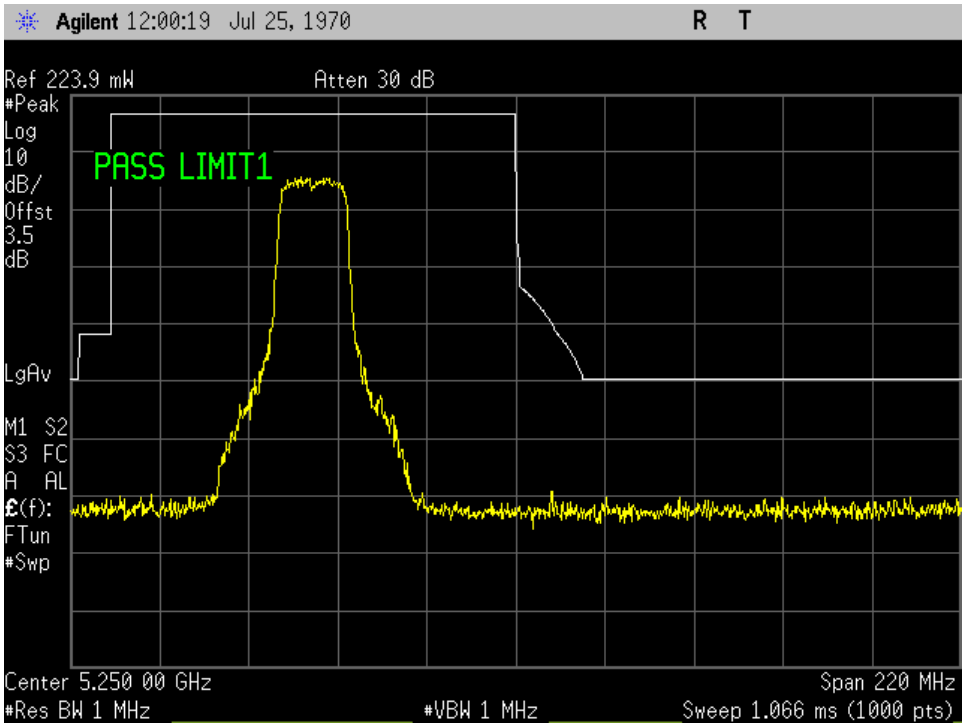


W52_5190MHz_Low Ch_38_40MHz BW_n-mode_Emission Mask _Port 2

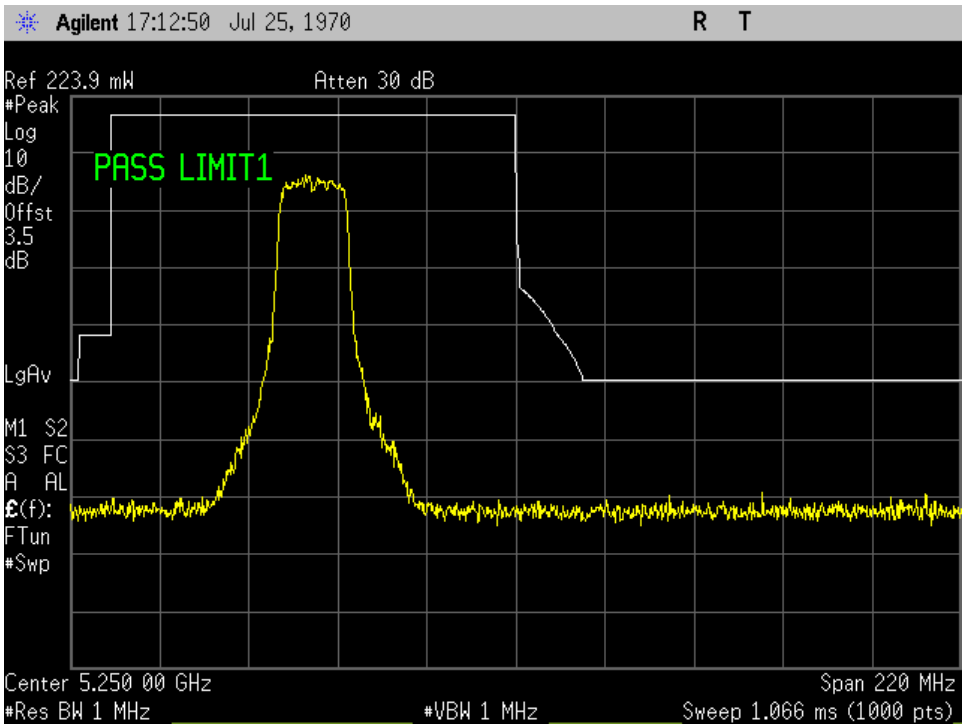


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W52_5200MHz_low_mid Ch_40_20MHz BW_a-mode_Emission Mask _Port 1

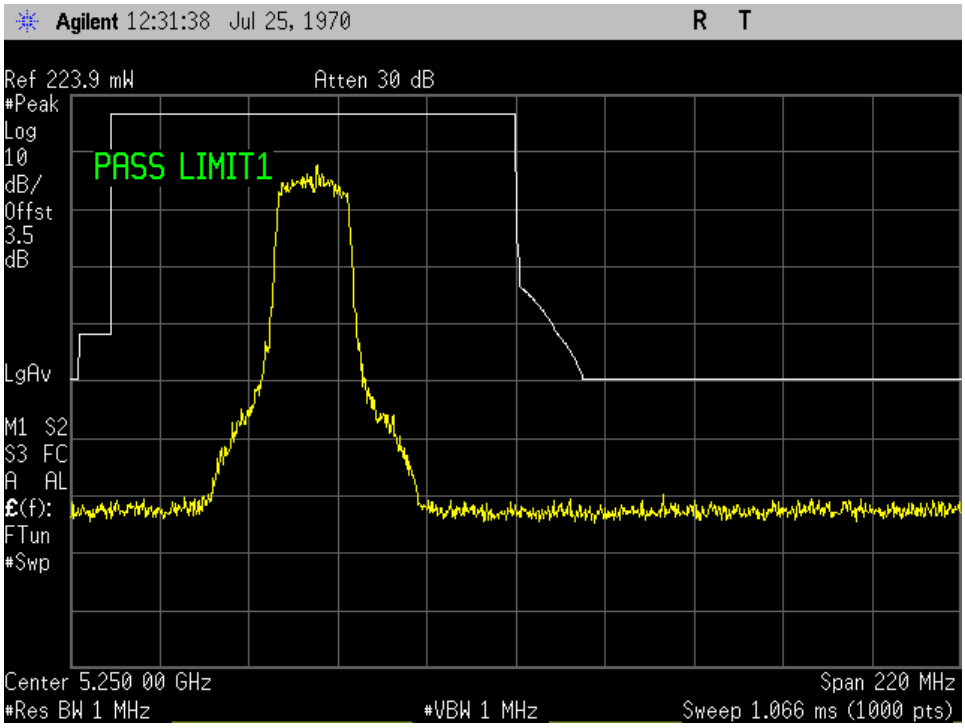


W52_5200MHz_low_mid Ch_40_20MHz BW_a-mode_Emission Mask _Port 2

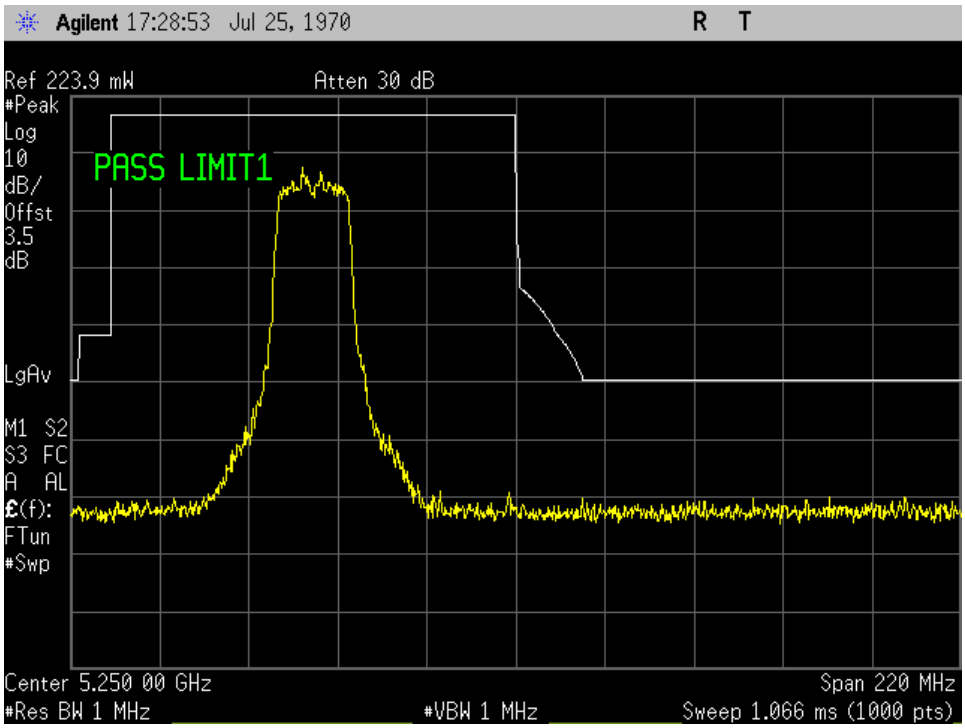


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W52_5200MHz_low_mid Ch_40_20MHz BW_n-mode_Emission Mask _Port 1

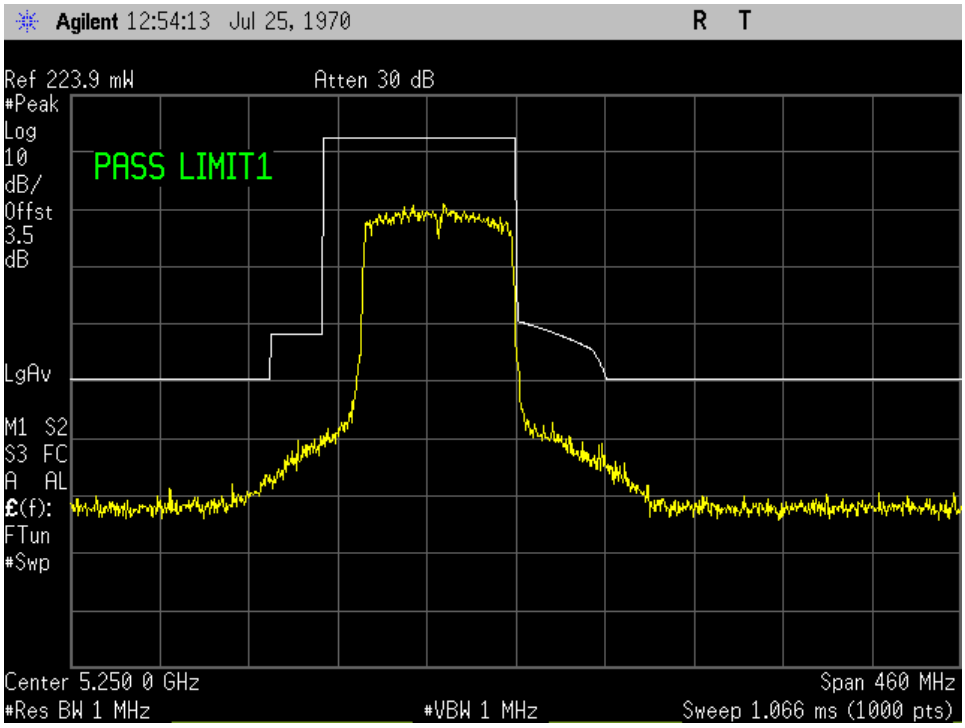


W52_5200MHz_low_mid Ch_40_20MHz BW_n-mode_Emission Mask _Port 2

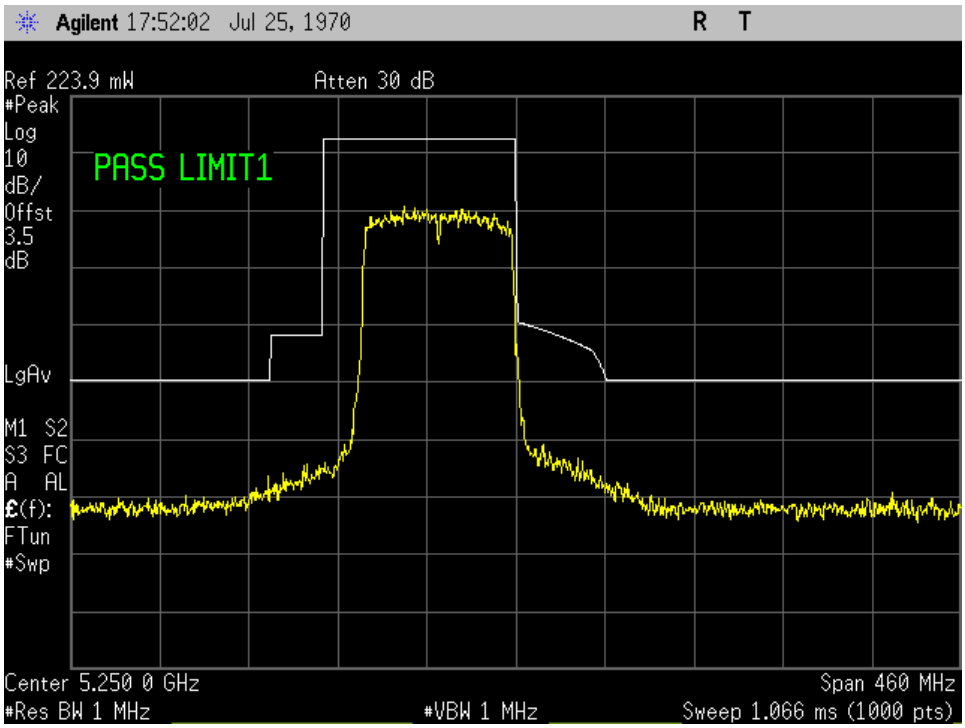


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W52_5210MHz_Low mid Ch_42_80MHz BW_ac-mode_Emission Mask _Port 1

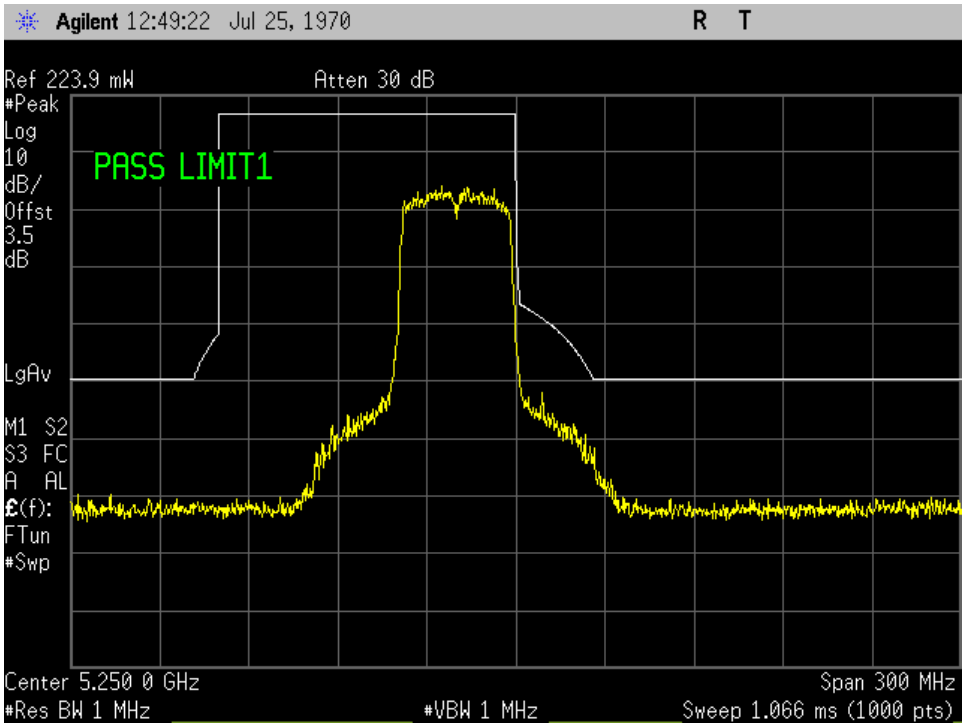


W52_5210MHz_Low mid Ch_42_80MHz BW_ac-mode_Emission Mask _Port 2

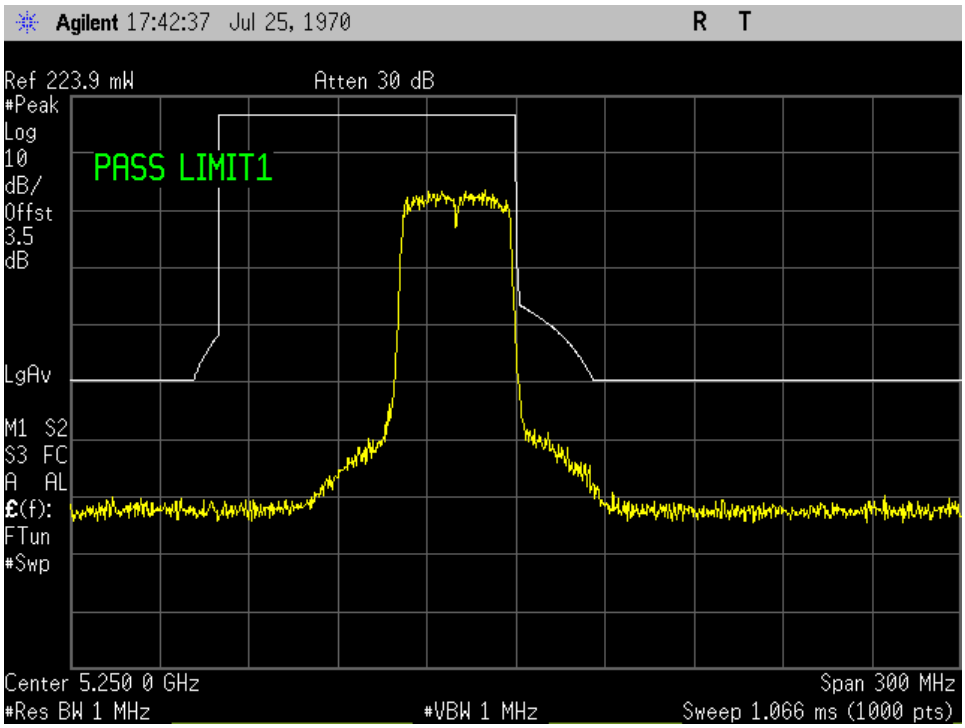


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W52_5230MHz_high_mid Ch_46_40MHz BW_n-mode_Emission Mask _Port 1

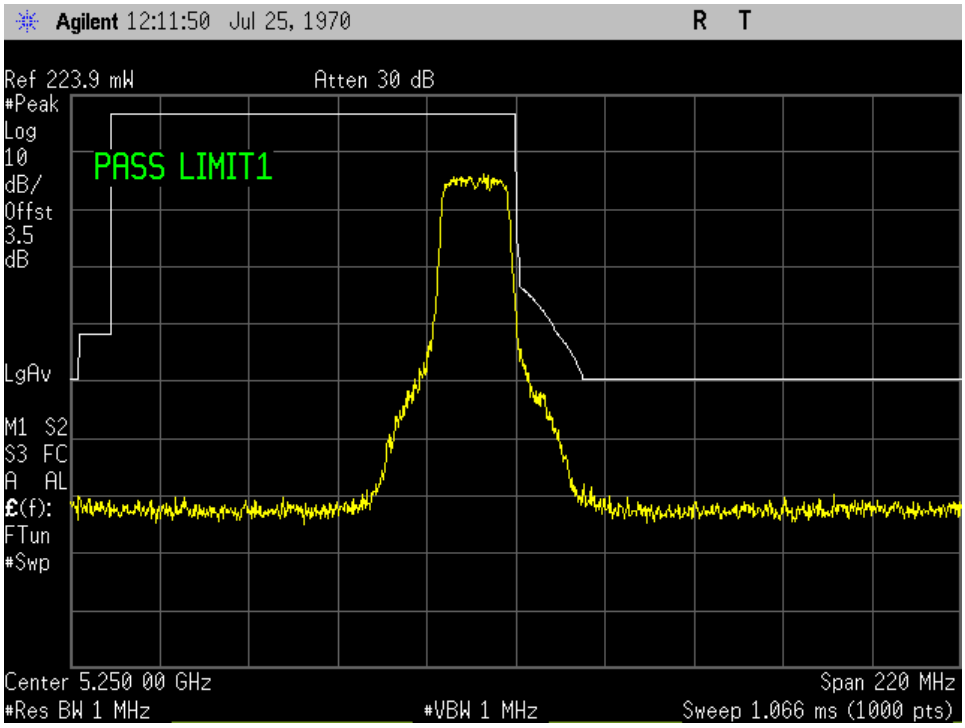


W52_5230MHz_high_mid Ch_46_40MHz BW_n-mode_Emission Mask _Port 2

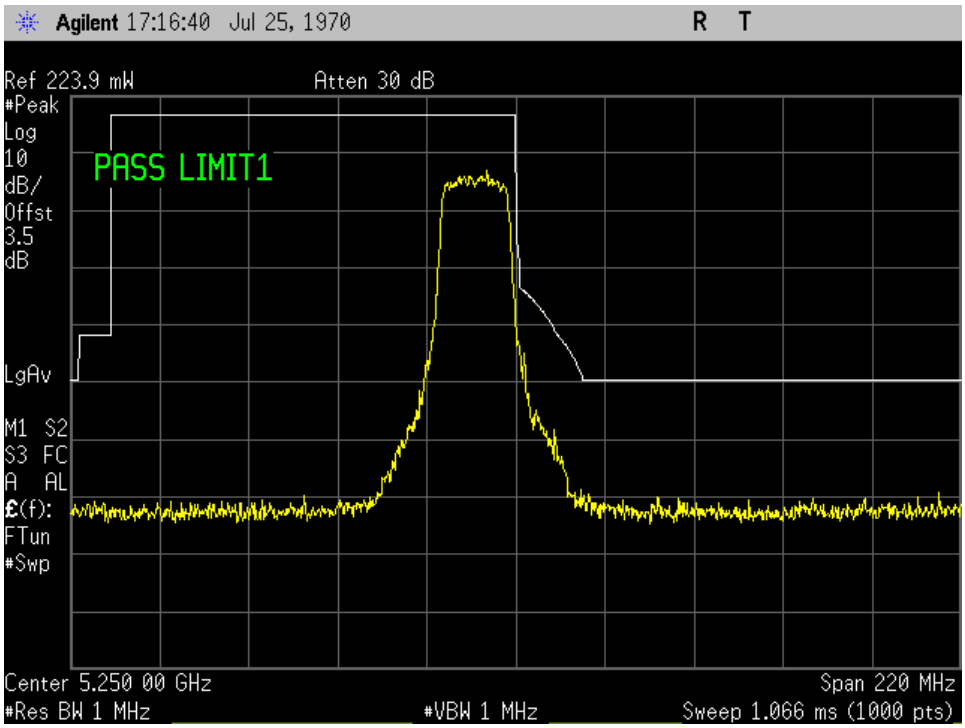


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W52_5240MHz_high_mid Ch_48_20MHz BW_a-mode_Emission Mask _Port 1

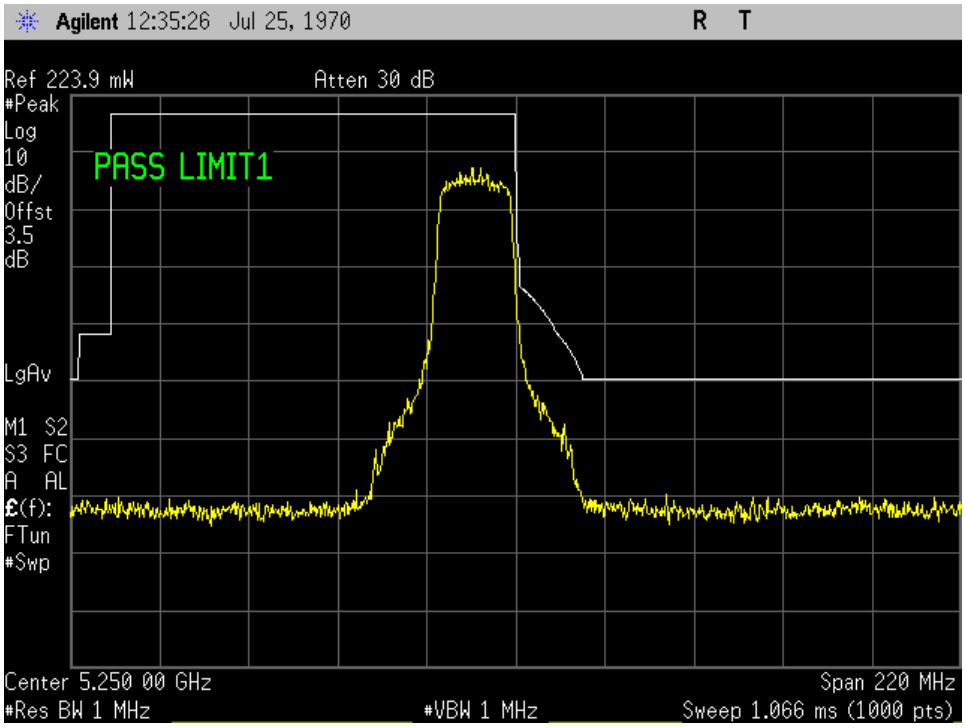


W52_5240MHz_high_mid Ch_48_20MHz BW_a-mode_Emission Mask _Port 2

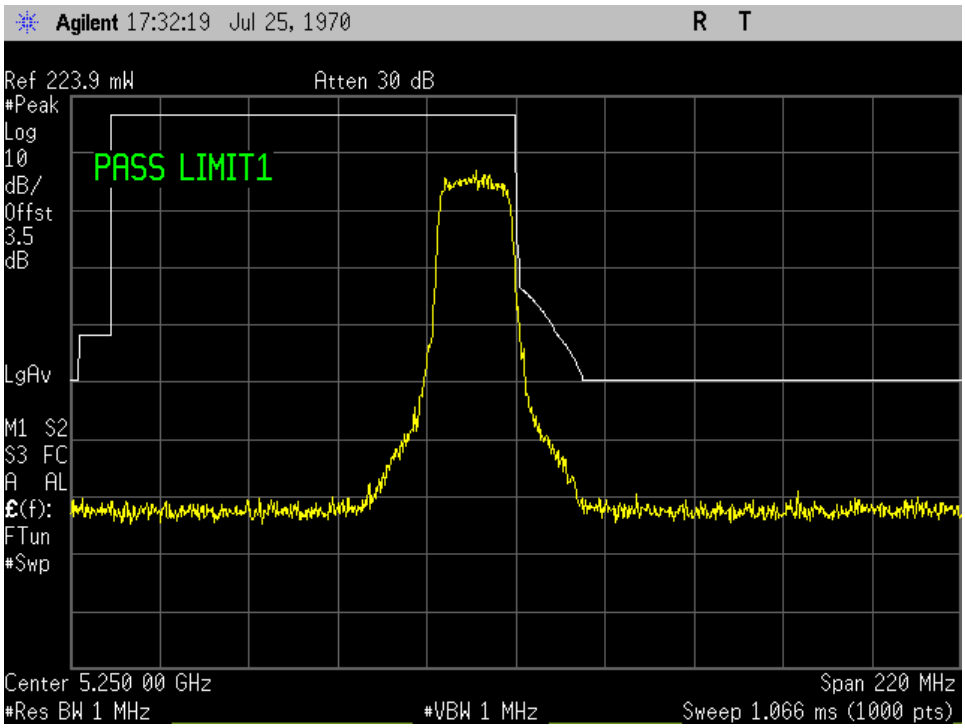


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W52_5240MHz_high_mid Ch_48_20MHz BW_n-mode_Emission Mask _Port 1

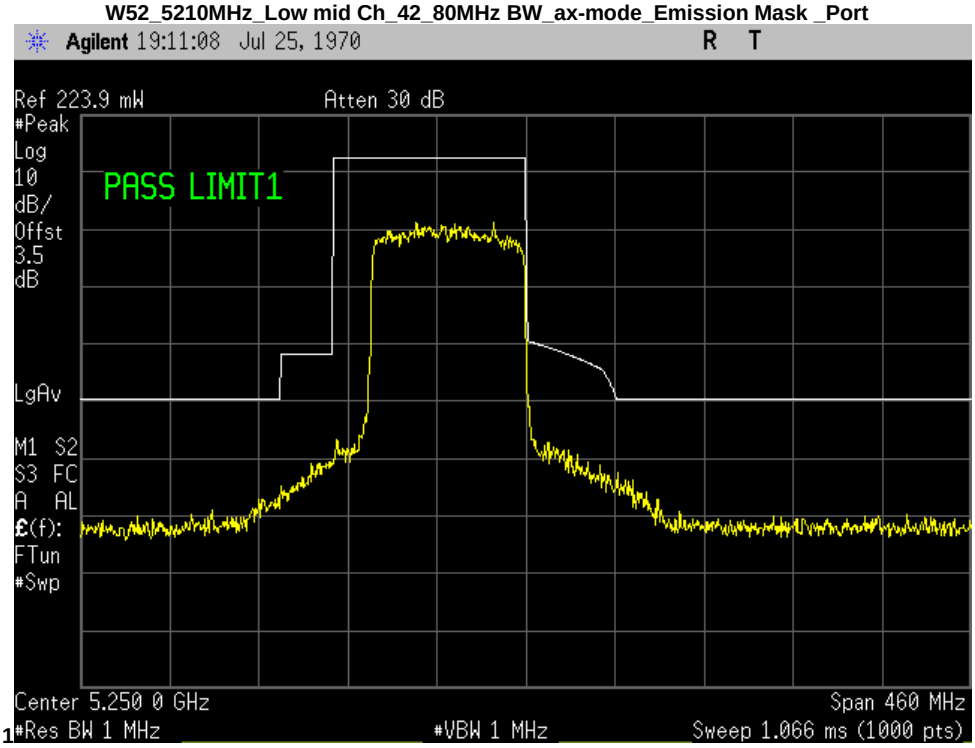


W52_5240MHz_high_mid Ch_48_20MHz BW_n-mode_Emission Mask _Port 2



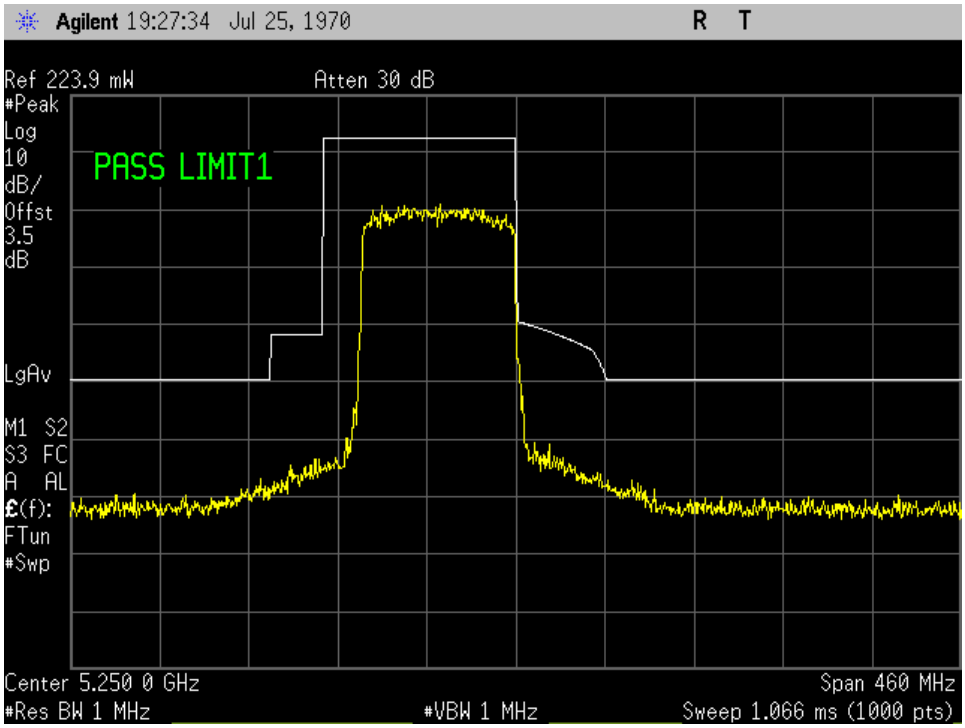
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W52_5210MHz_Low mid Ch_42_80MHz BW_ax-mode_Emission Mask _Port



1

W52_5210MHz_Low mid Ch_42_80MHz BW_ax-mode_Emission Mask _Port 2

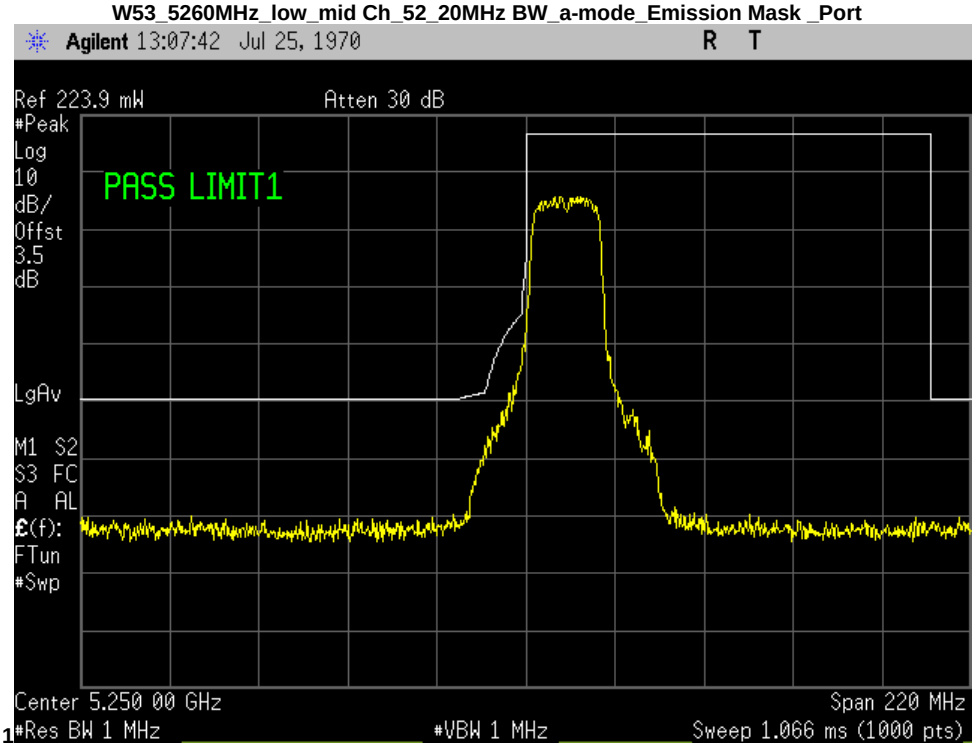


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Leakage Power Plots (Band W53)

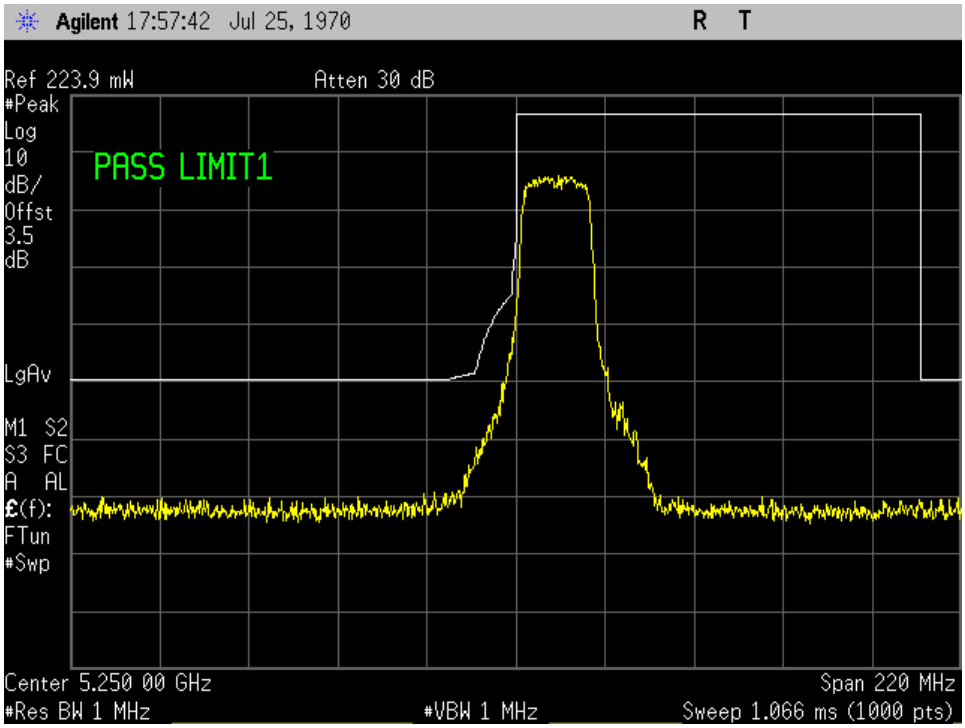
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W53_5260MHz_low_mid Ch_52_20MHz BW_a-mode_Emission Mask _Port



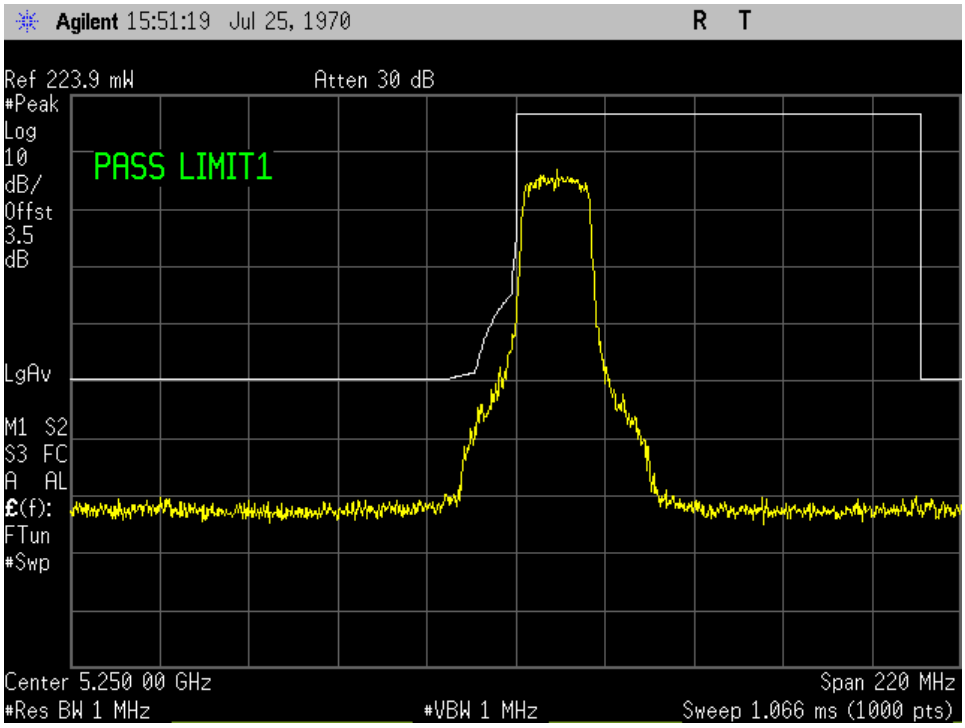
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W53_5260MHz_low_mid Ch_52_20MHz BW_a-mode_Emission Mask _Port 2

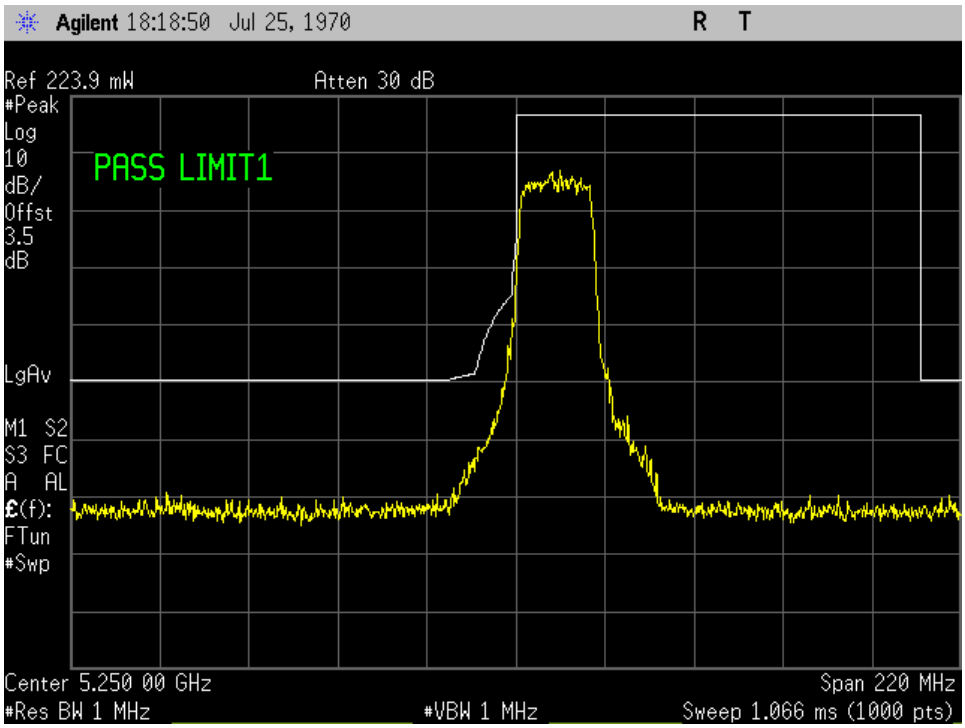


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W53_5260MHz_low_mid Ch_52_20MHz BW_n-mode_Emission Mask _Port 1

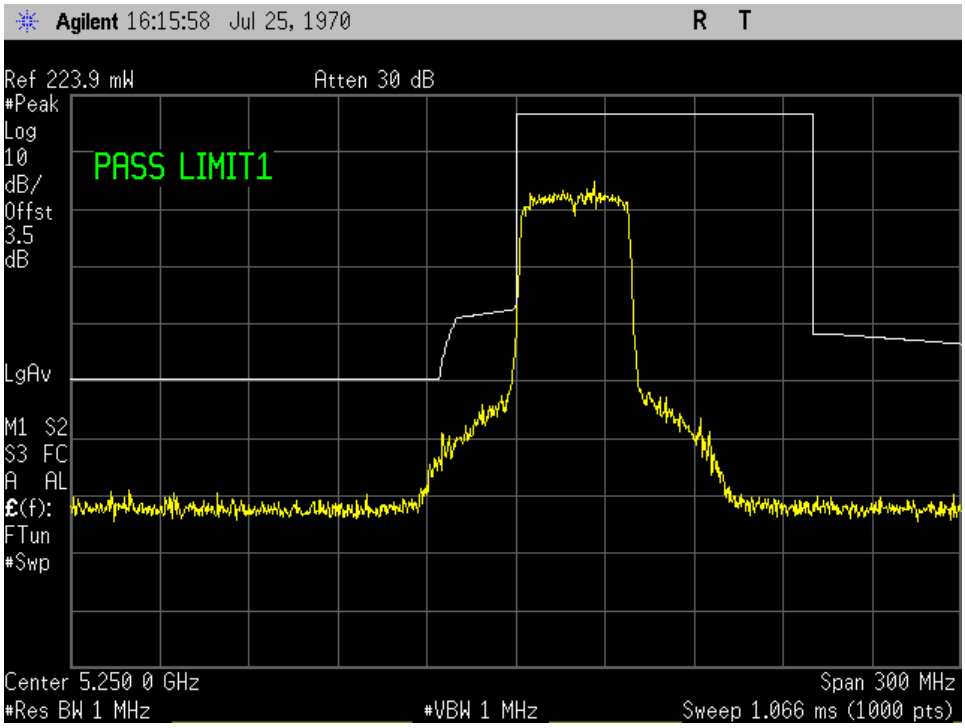


W53_5260MHz_low_mid Ch_52_20MHz BW_n-mode_Emission Mask _Port 2

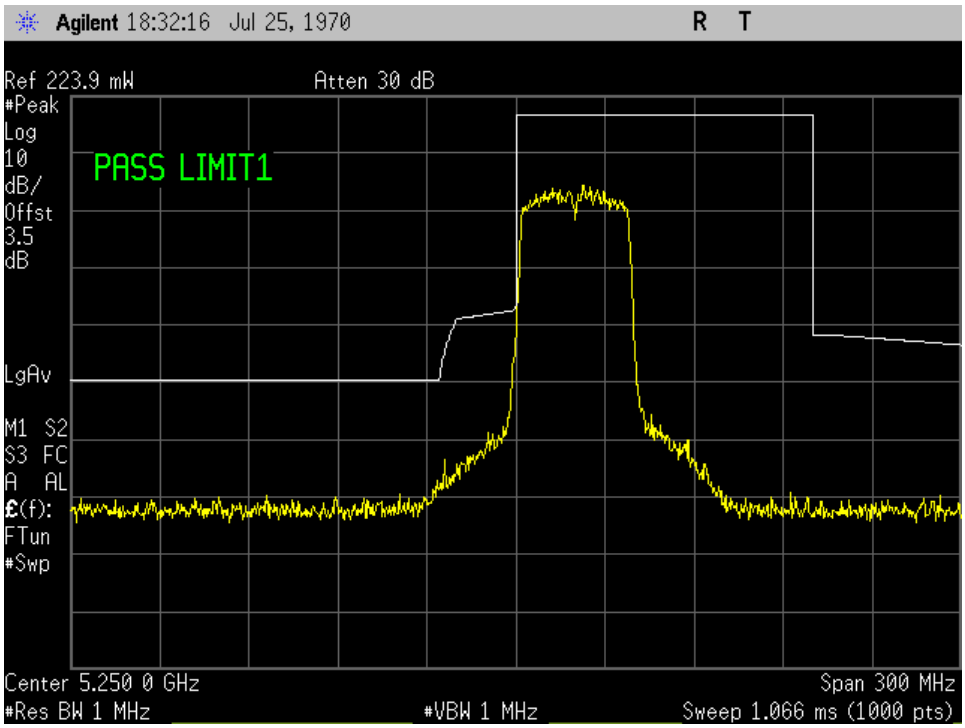


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W53_5270MHz_low_mid Ch_54_40MHz BW_n-mode_Emission Mask _Port 1

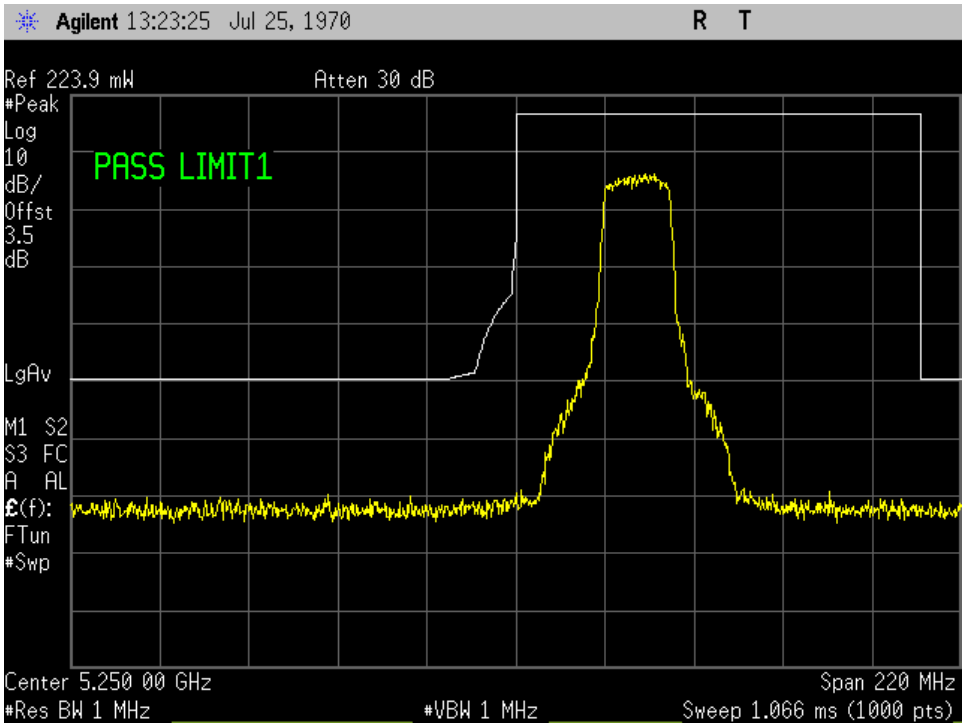


W53_5270MHz_low_mid Ch_54_40MHz BW_n-mode_Emission Mask _Port 2

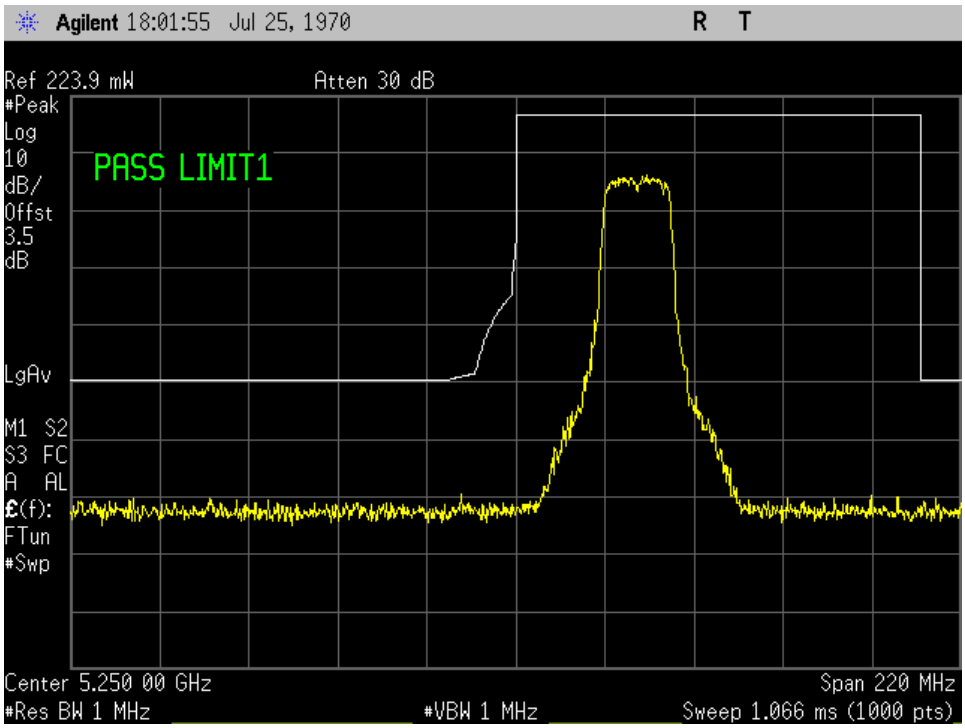


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W53_5280MHz_high_mid Ch_56_20MHz BW_a-mode_Emission Mask _Port 1

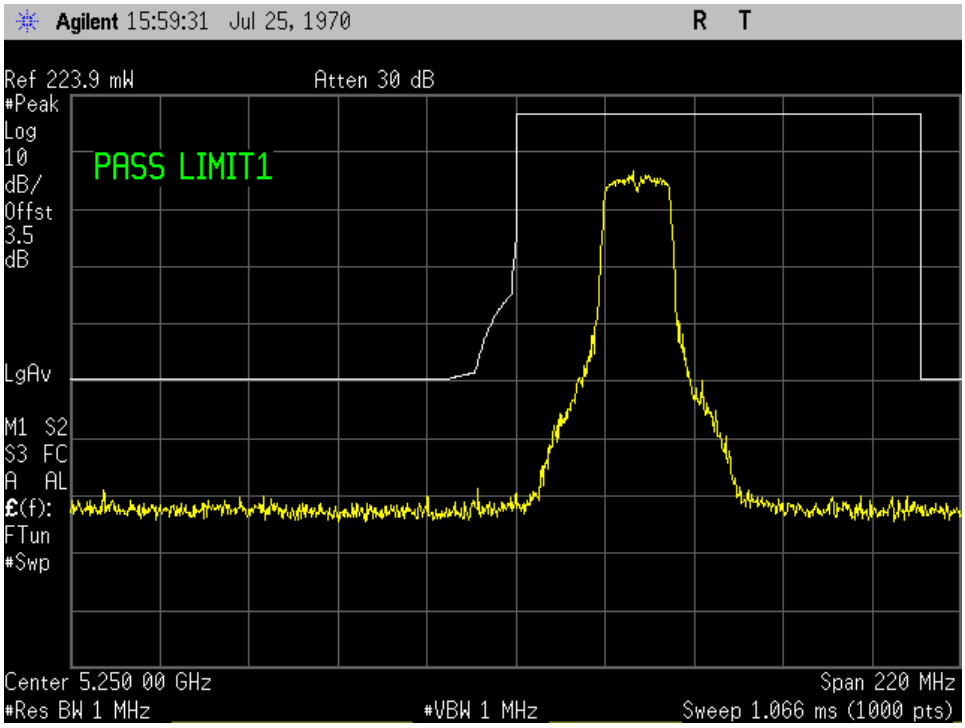


W53_5280MHz_high_mid Ch_56_20MHz BW_a-mode_Emission Mask _Port 2

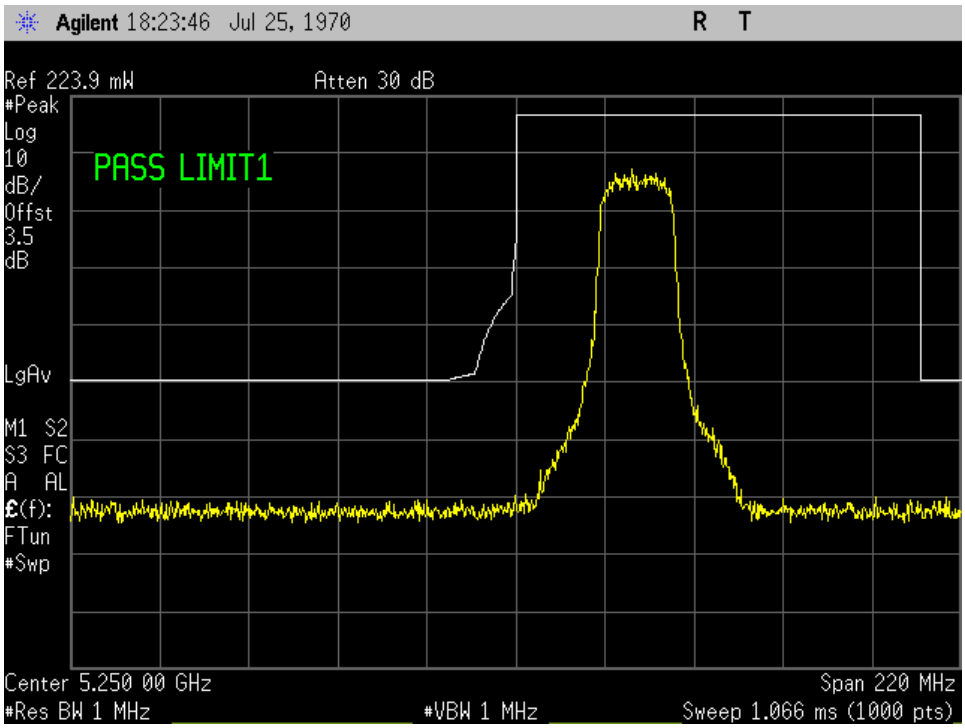


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W53_5280MHz_high_mid Ch_56_20MHz BW_n-mode_Emission Mask _Port 1

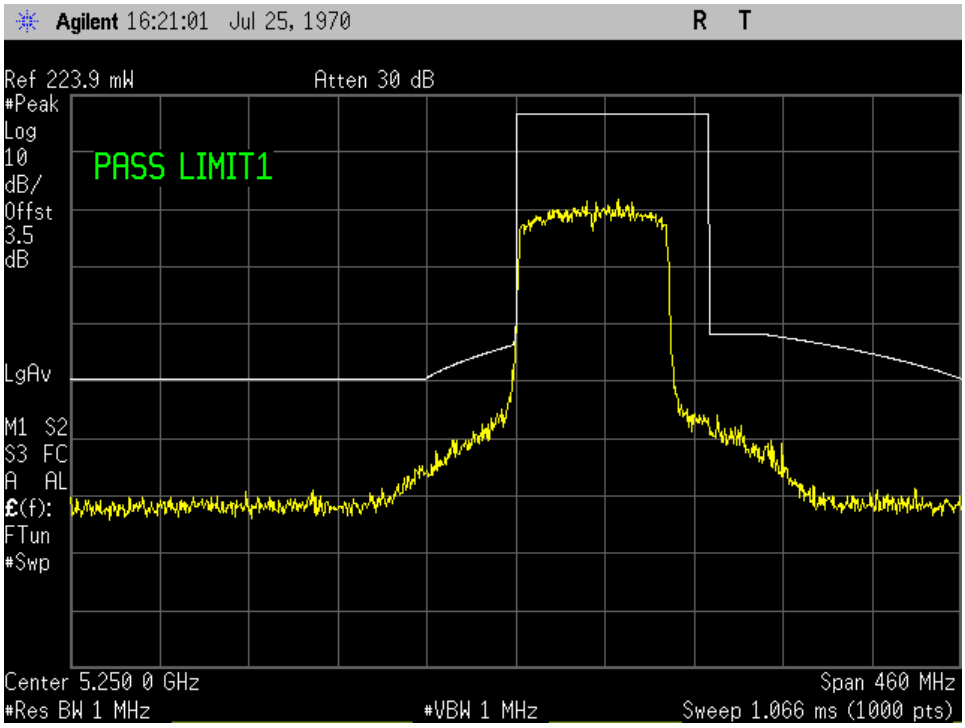


W53_5280MHz_high_mid Ch_56_20MHz BW_n-mode_Emission Mask _Port 2

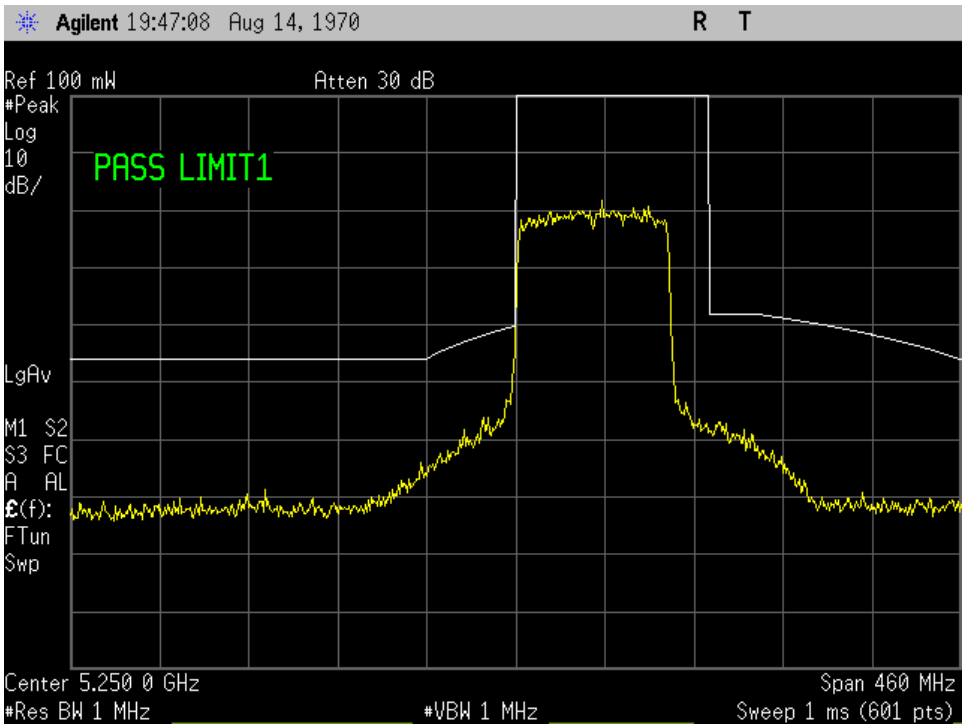


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W53_5290MHz_High Ch_58_80MHz BW_ac-mode_Emission Mask _Port 1

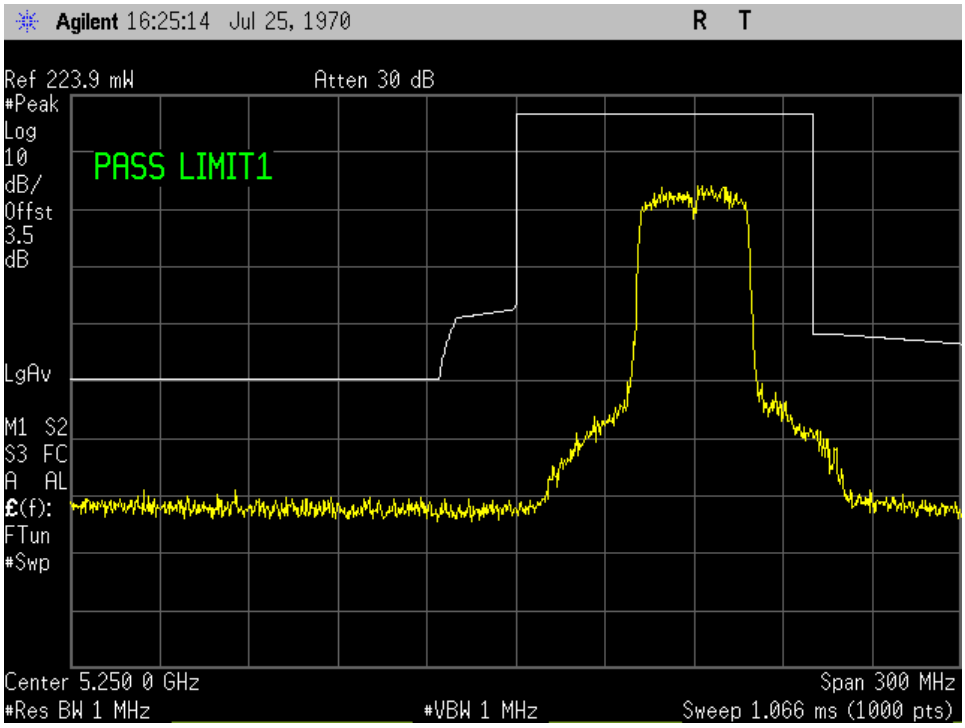


W53_5290MHz_High Ch_58_80MHz BW_ac-mode_Emission Mask _Port 2

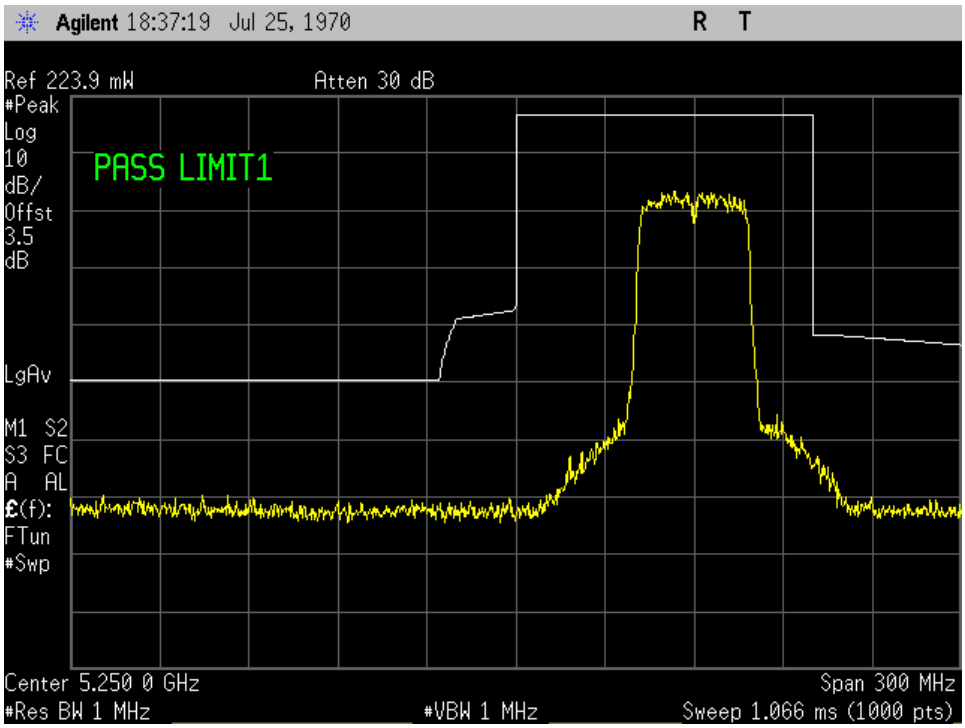


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W53_5310MHz_High Ch_62_40MHz BW_n-mode_Emission Mask _Port 1

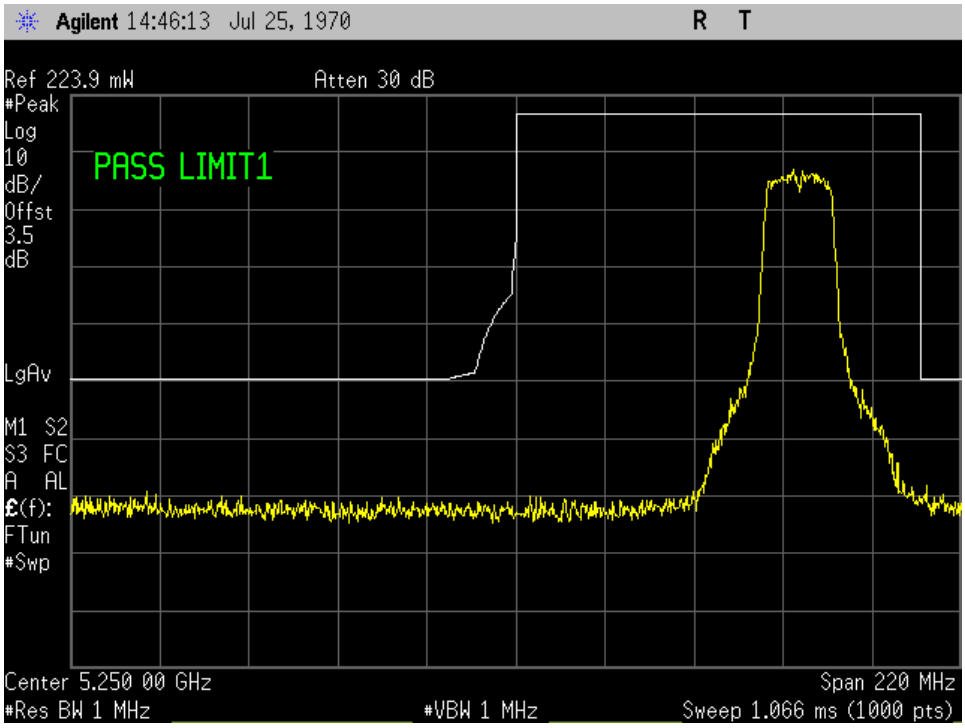


W53_5310MHz_High Ch_62_40MHz BW_n-mode_Emission Mask _Port 2

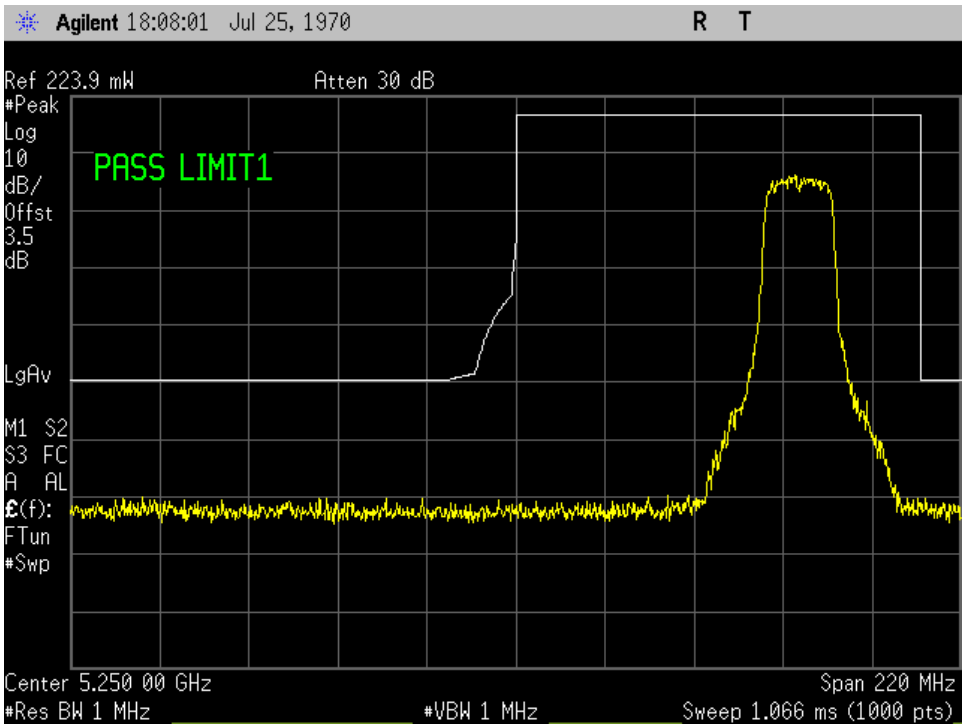


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W53_5320MHz_High Ch_64_20MHz BW_a-mode_Emission Mask _Port 1

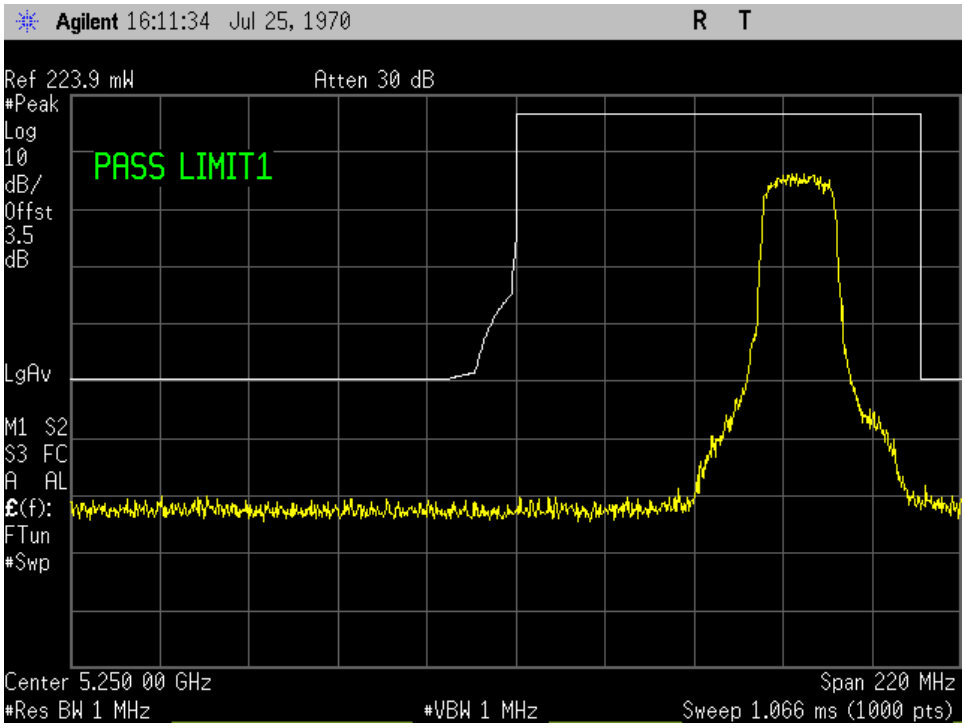


W53_5320MHz_High Ch_64_20MHz BW_a-mode_Emission Mask _Port 2

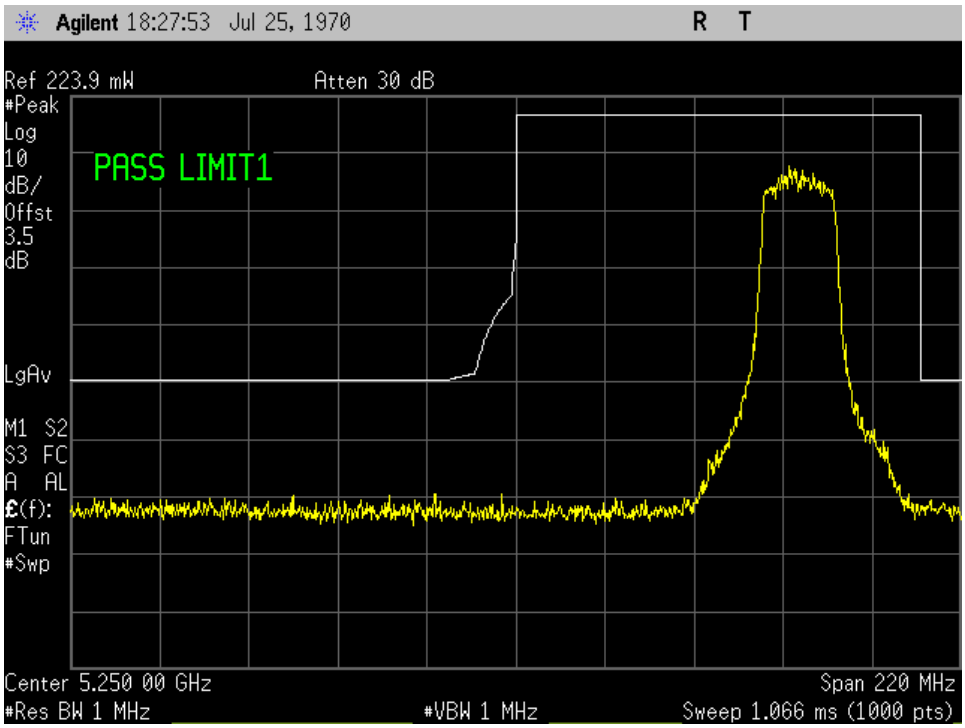


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W53_5320MHz_High Ch_64_20MHz BW_n-mode_Emission Mask _Port 1

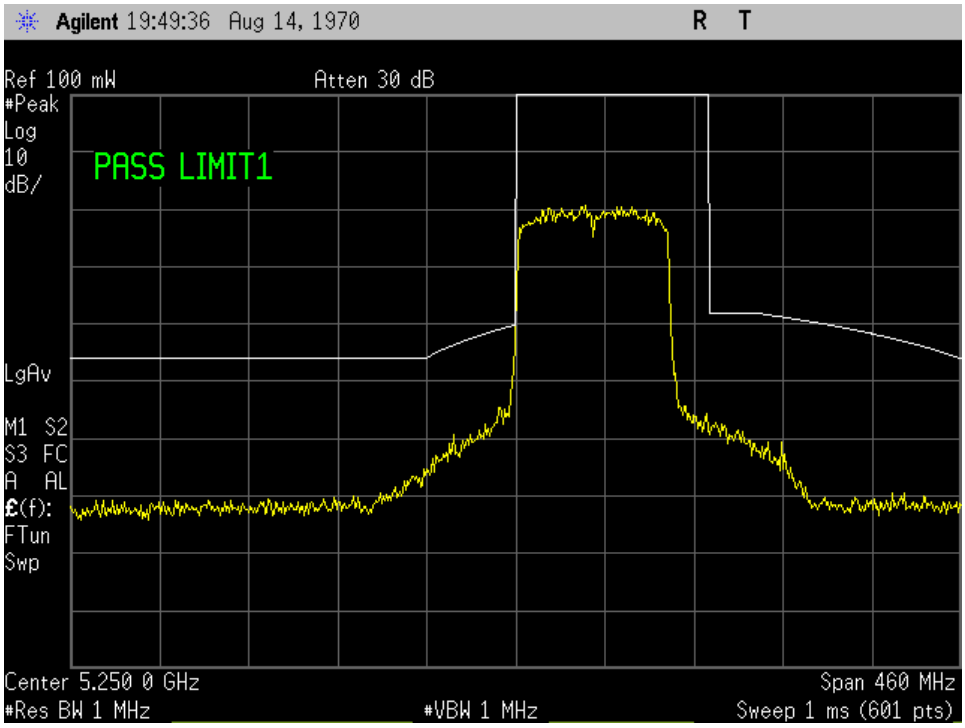


W53_5320MHz_High Ch_64_20MHz BW_n-mode_Emission Mask _Port 2

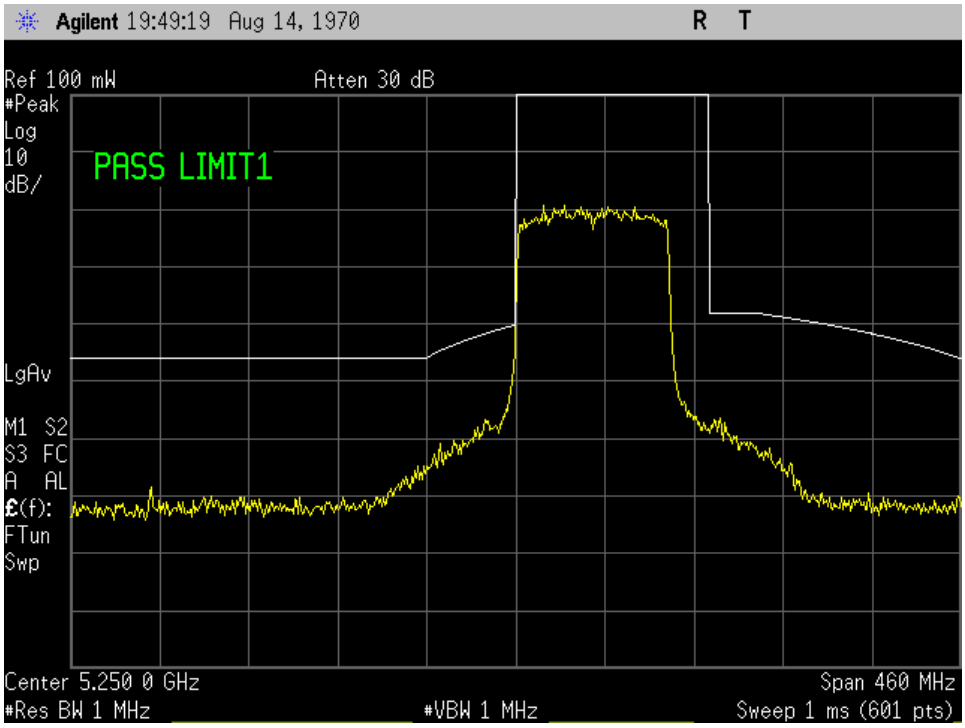


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W53_5290MHz_High Ch_58_80MHz BW_ax-mode_Emission Mask _Port 1



W53_5290MHz_High Ch_58_80MHz BW_ax-mode_Emission Mask _Port 2

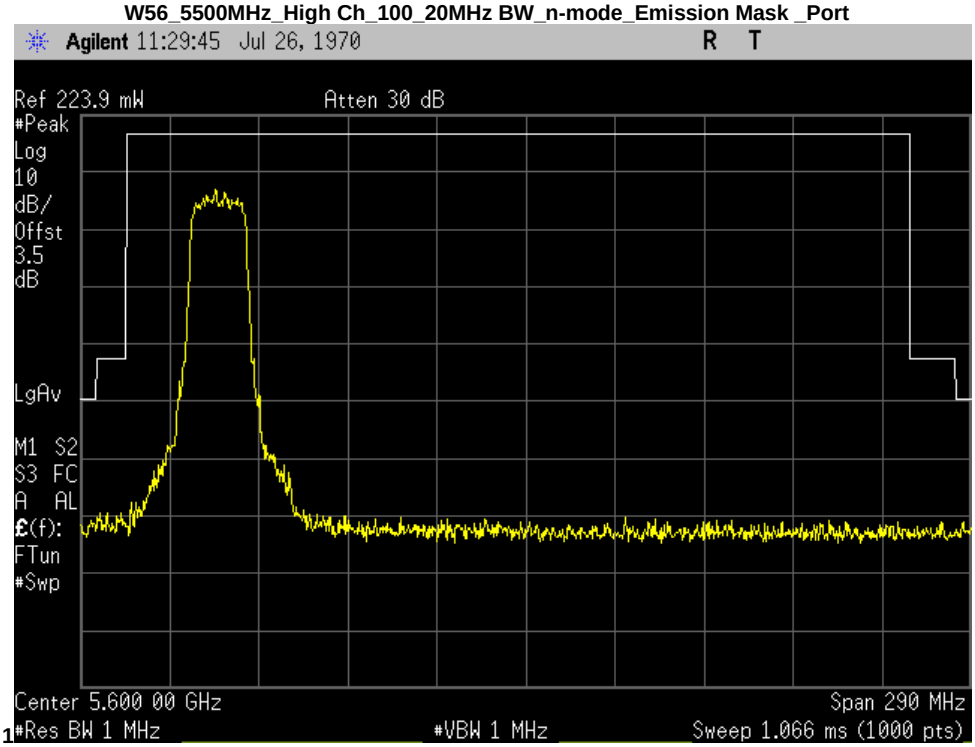


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Leakage Power Plots (Band W56)

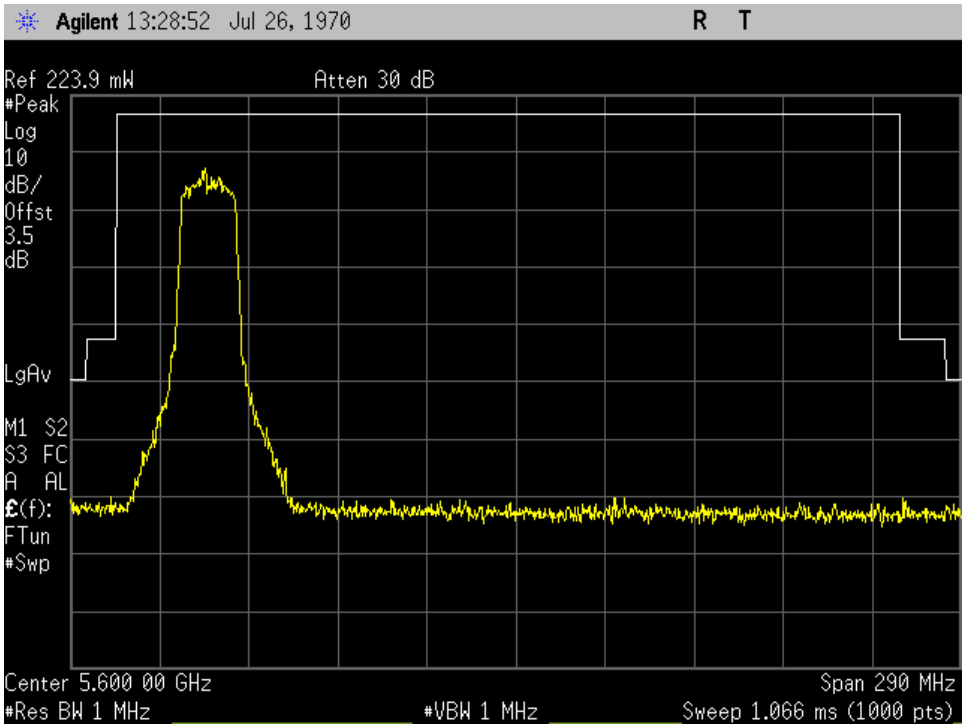
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W56_5500MHz_High Ch_100_20MHz BW_n-mode_Emission Mask _Port



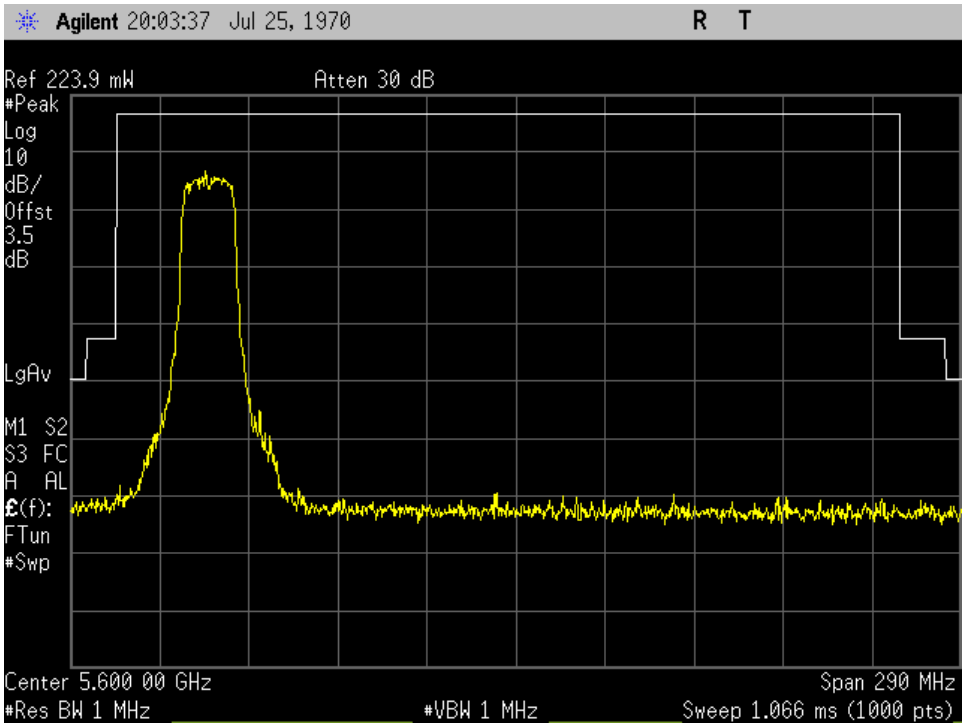
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W56_5500MHz_High Ch_100_20MHz BW_n-mode_Emission Mask _Port 2

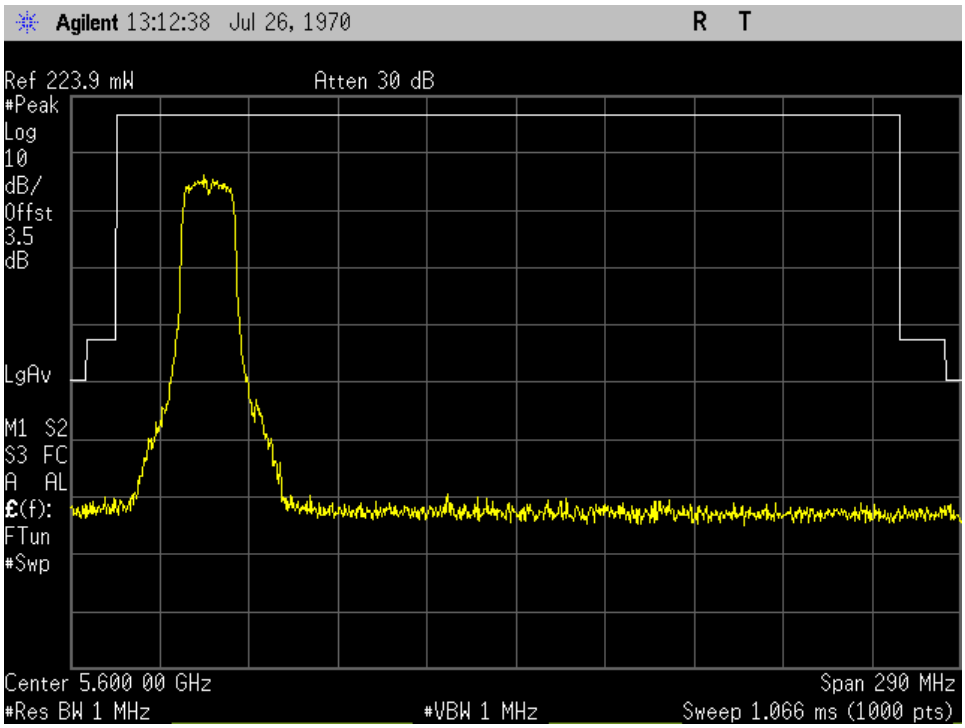


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W56_5500MHz_Low Ch_100_20MHz BW_a-mode_Emission Mask _Port 1

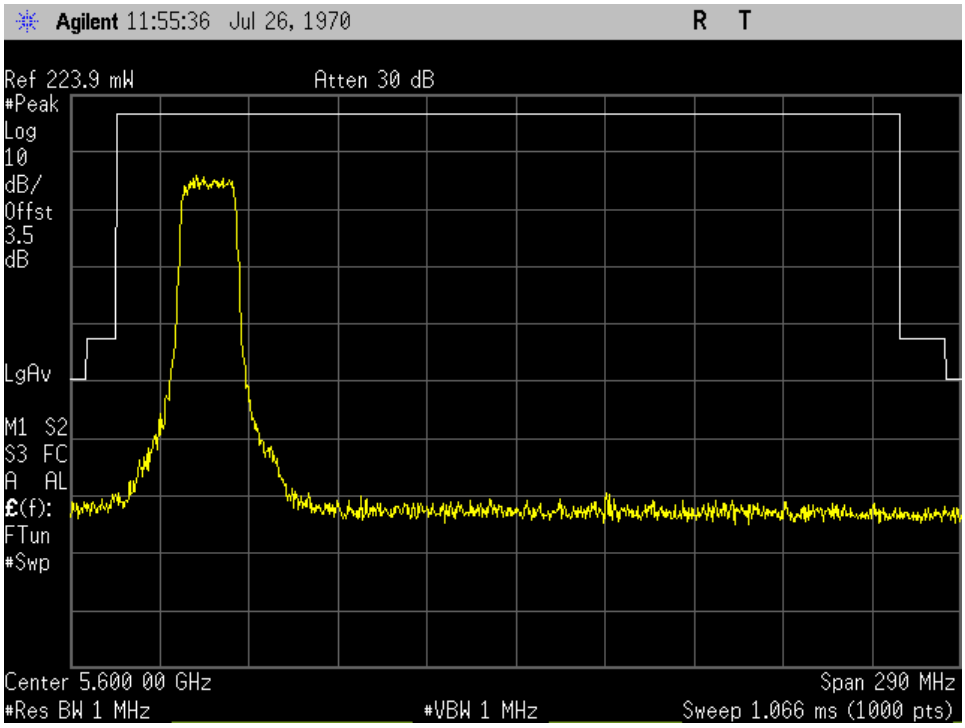


W56_5500MHz_Low Ch_100_20MHz BW_a-mode_Emission Mask _Port 2

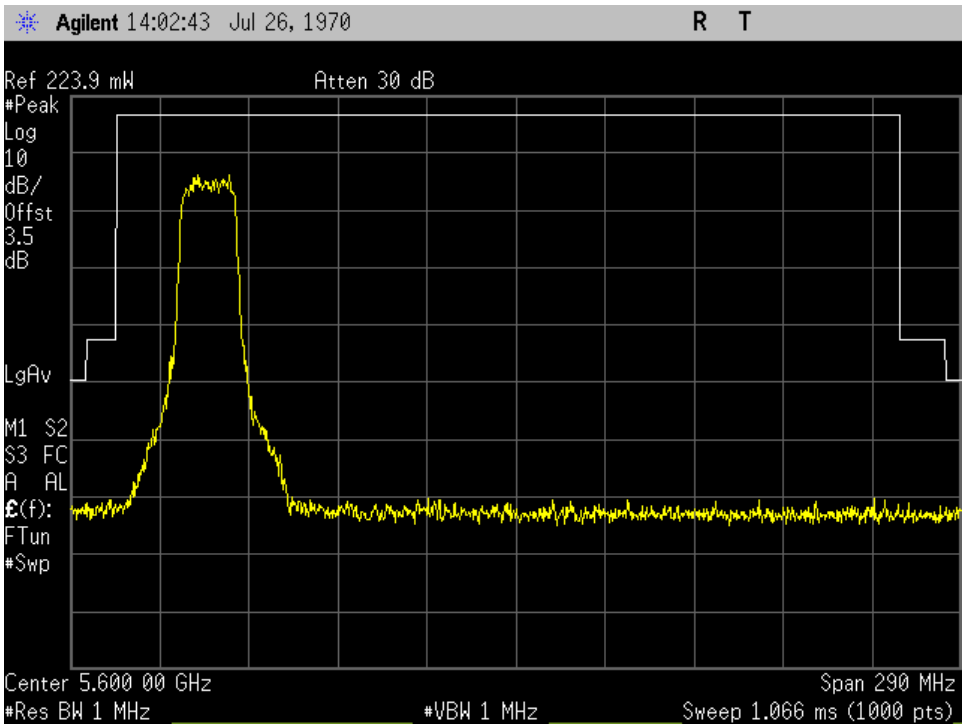


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W56_5500MHz_Low Ch_100_20MHz BW_ac-mode_Emission Mask _Port 1

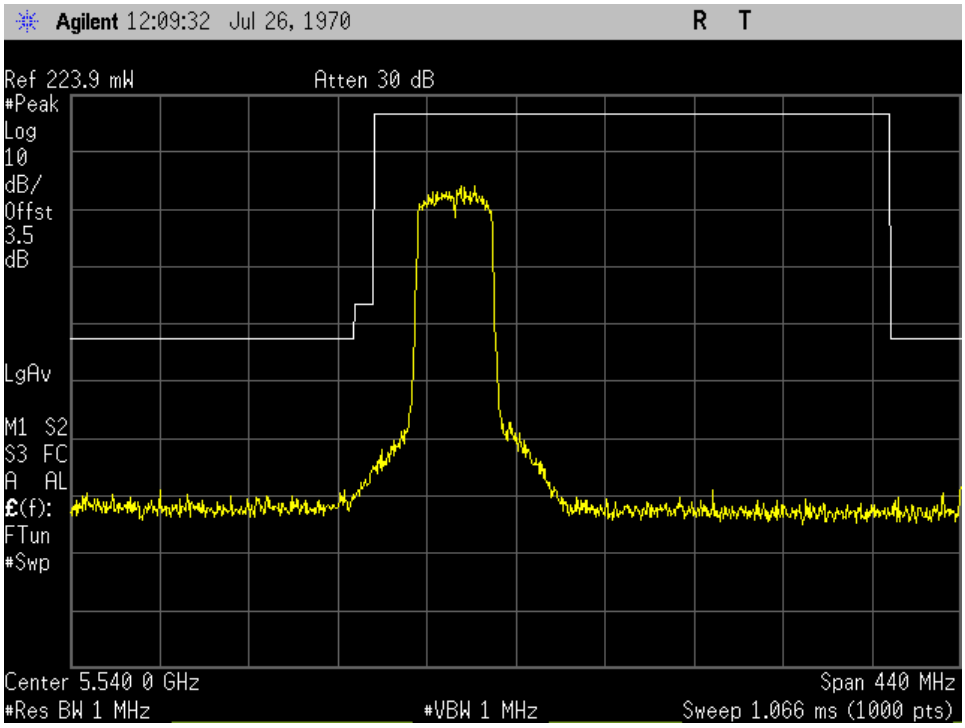


W56_5500MHz_Low Ch_100_20MHz BW_ac-mode_Emission Mask _Port 2

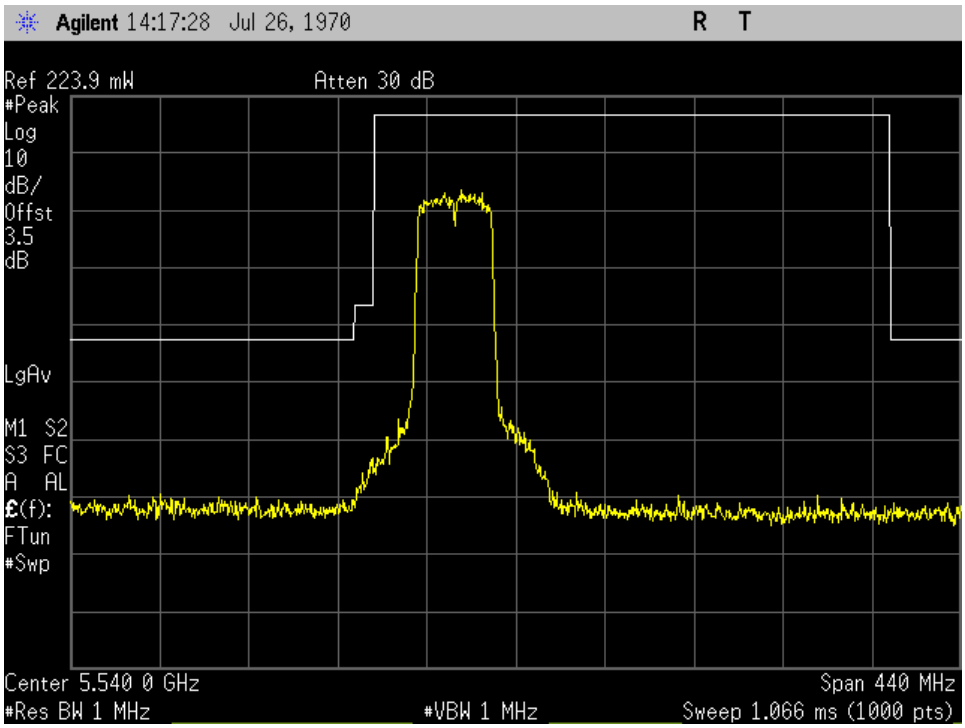


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W56_5510MHz_High Ch_102_40MHz BW_n-mode_Emission Mask _Port 1

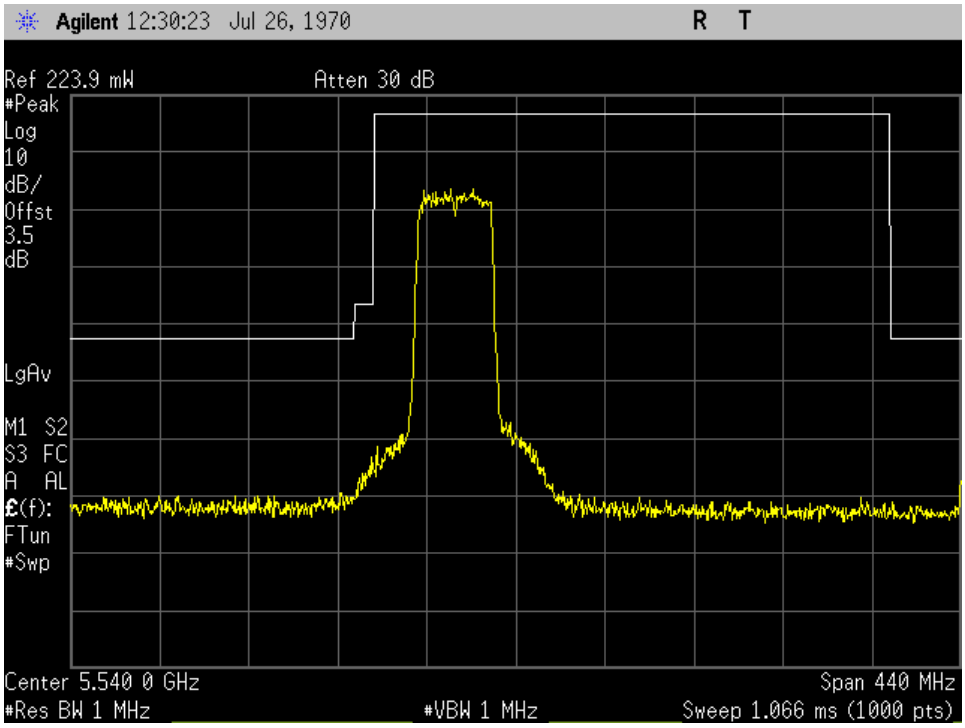


W56_5510MHz_High Ch_102_40MHz BW_n-mode_Emission Mask _Port 2

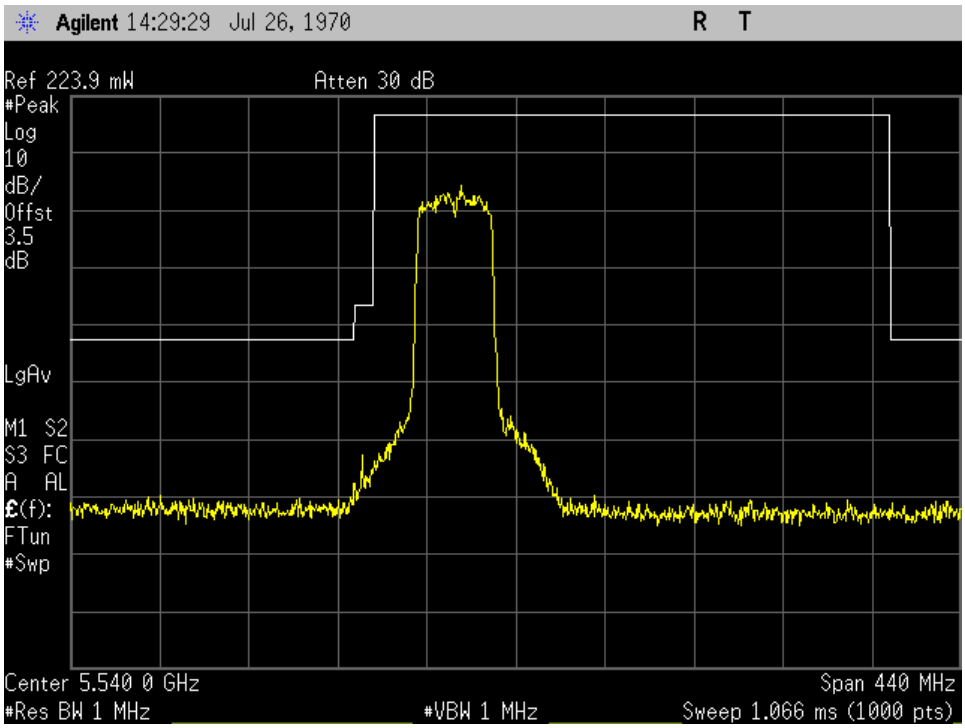


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W56_5510MHz_Mid Ch_102_40MHz BW_ac-mode_Emission Mask _Port 1

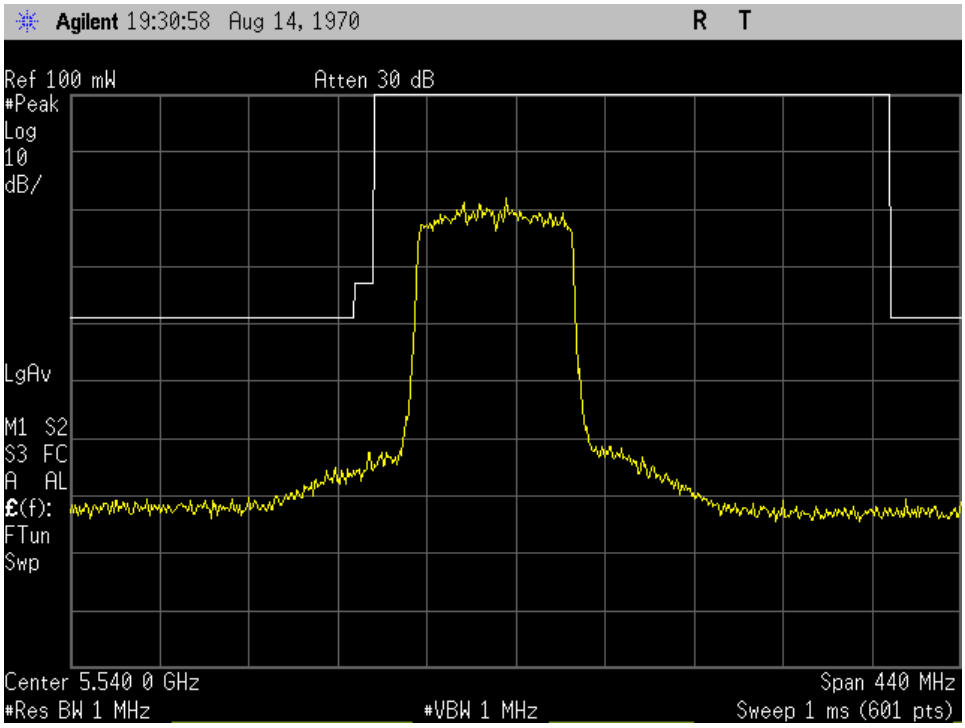


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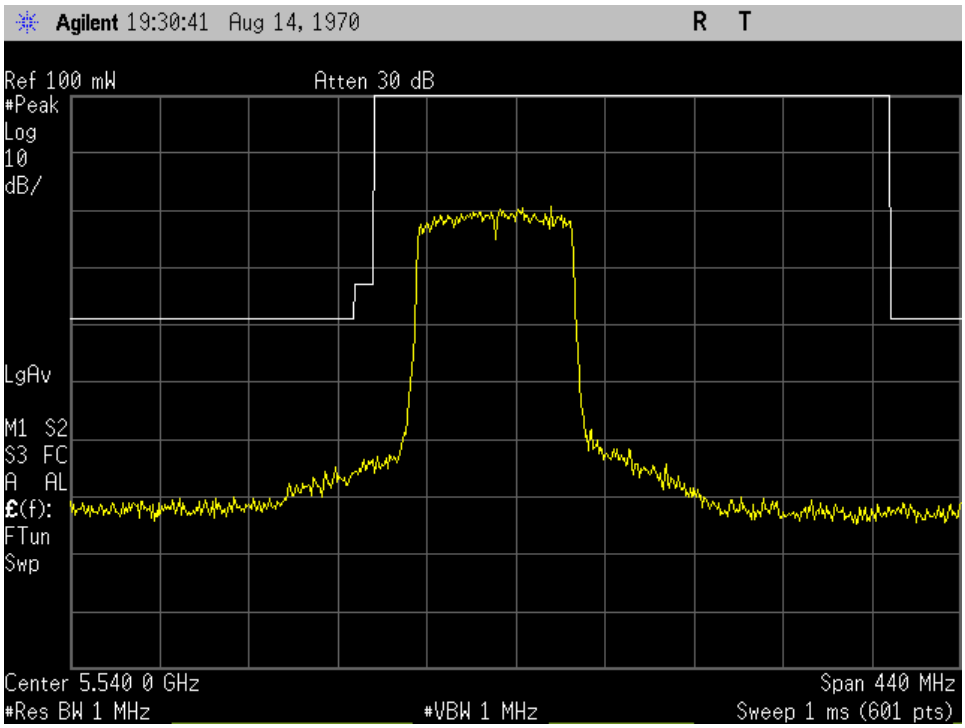


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W56_5530MHz_High Ch_106_80MHz BW_ac-mode_Emission Mask _Port 1

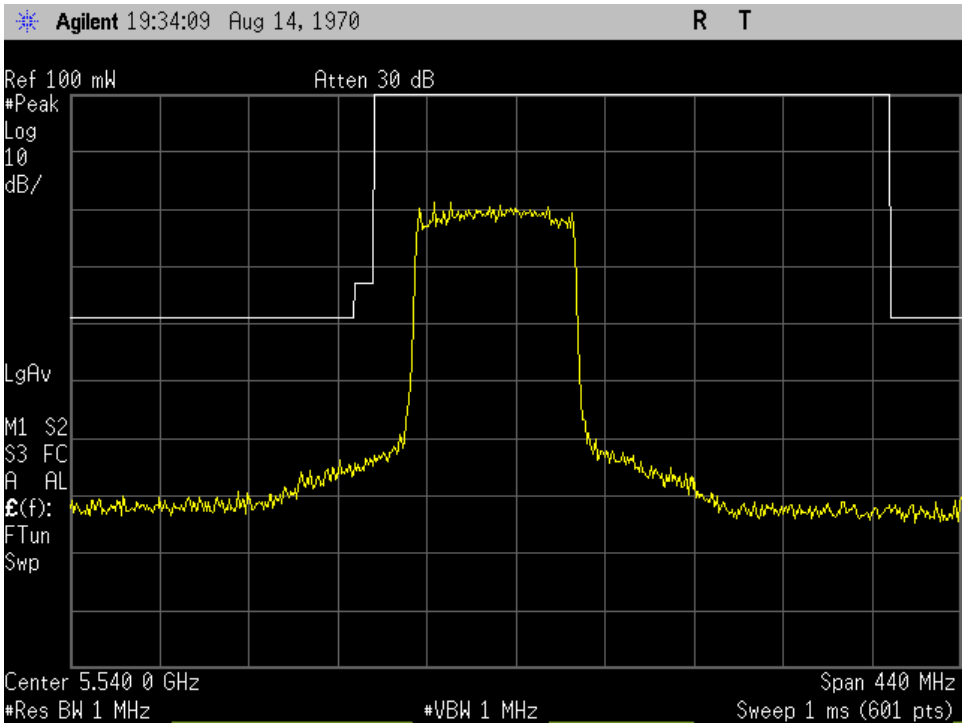


W56_5530MHz_High Ch_106_80MHz BW_ac-mode_Emission Mask _Port 2

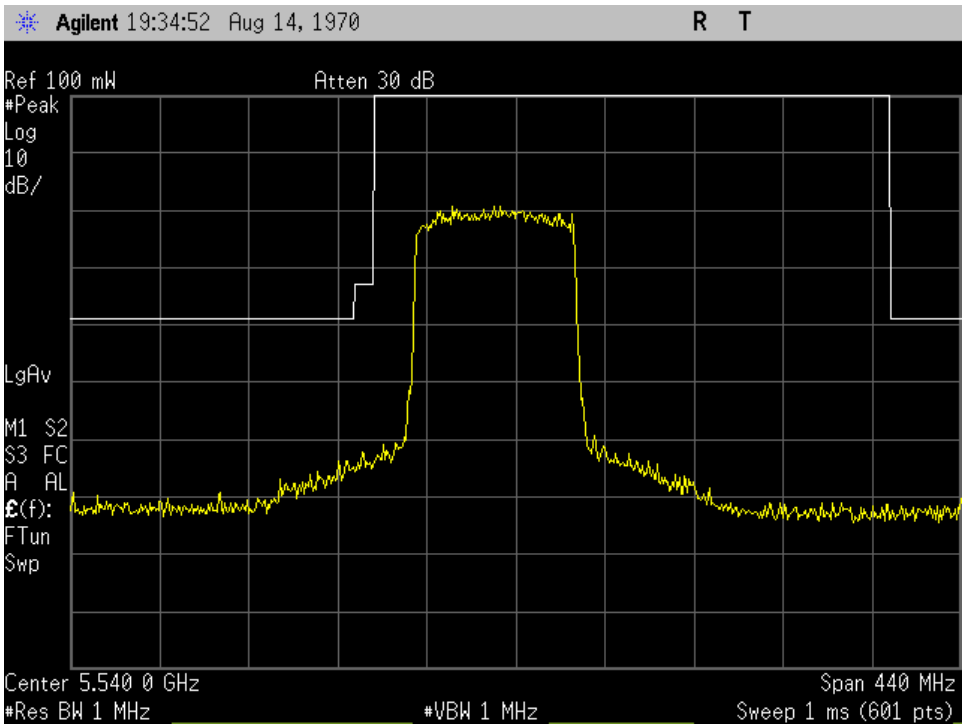


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W56_5530MHz_High Ch_106_80MHz BW_ax-mode_Emission Mask _Port 1

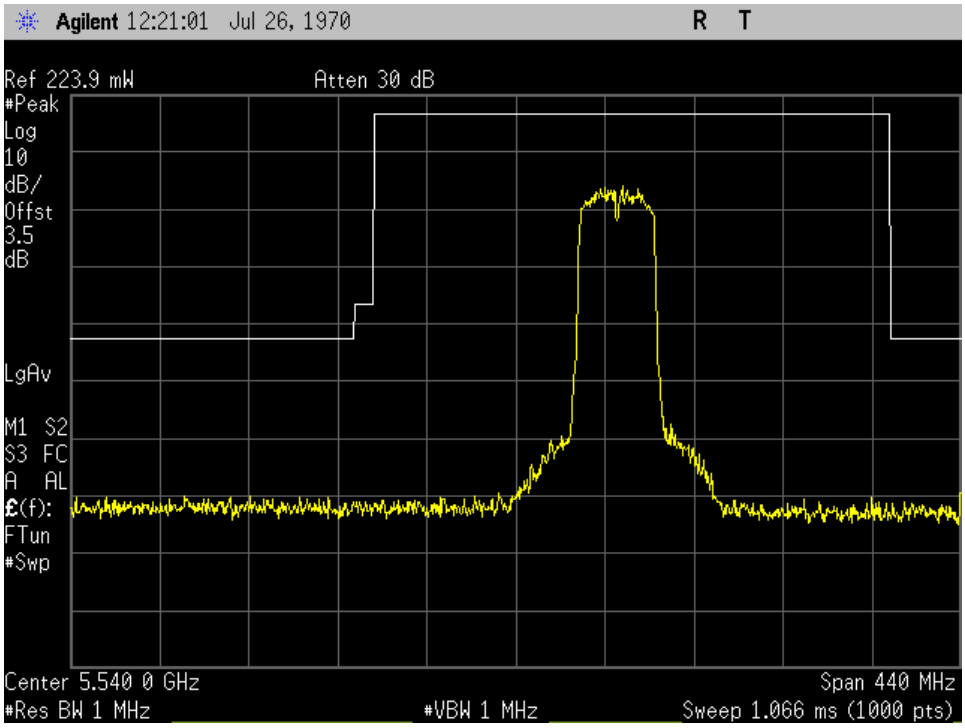


W56_5530MHz_High Ch_106_80MHz BW_ax-mode_Emission Mask _Port 2

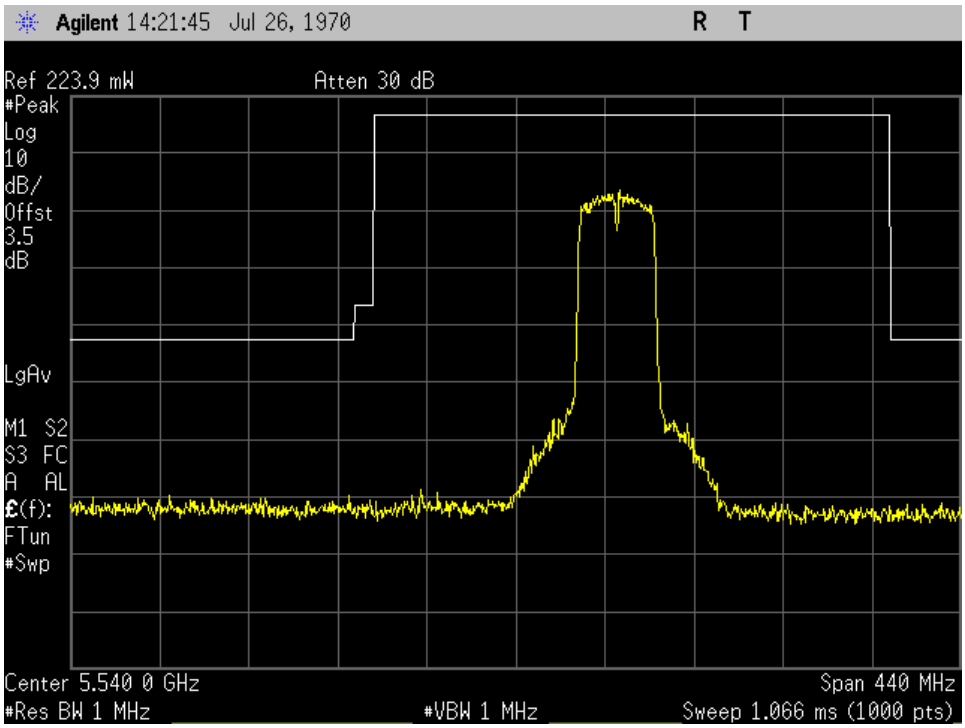


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W56_5590MHz_High Ch_118_40MHz BW_n-mode_Emission Mask _Port 1

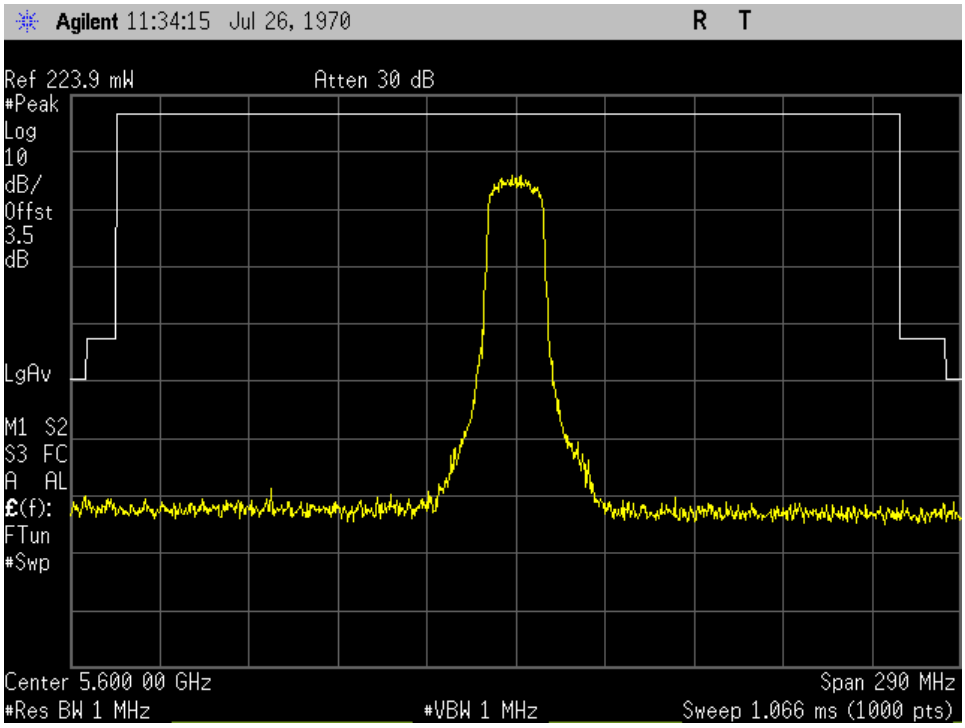


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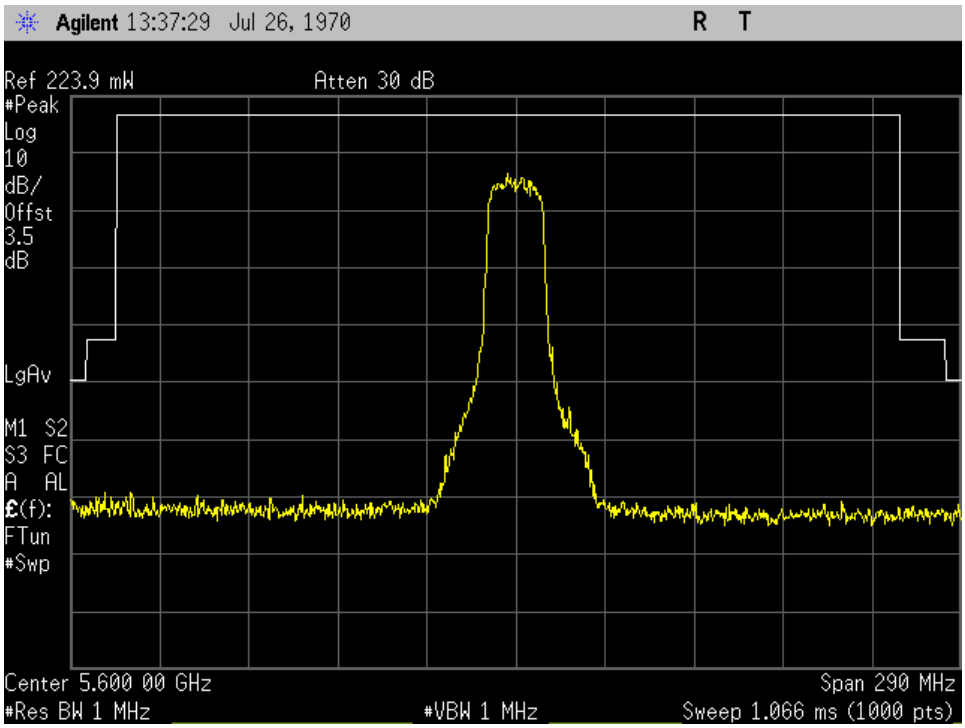


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W56_5600MHz_High Ch_120_20MHz BW_n-mode_Emission Mask _Port 1

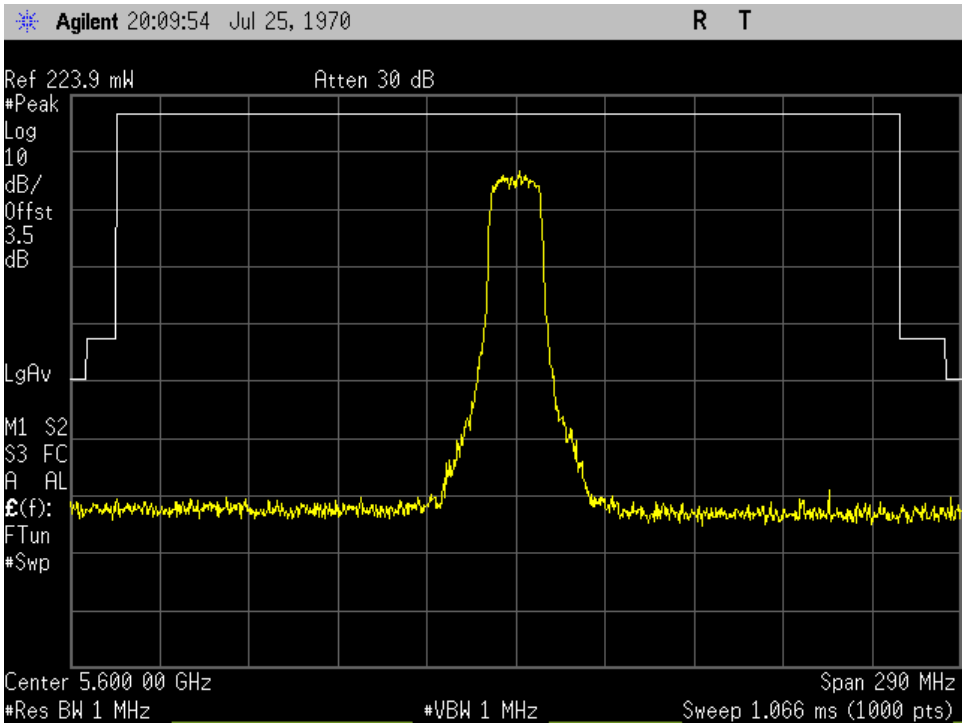


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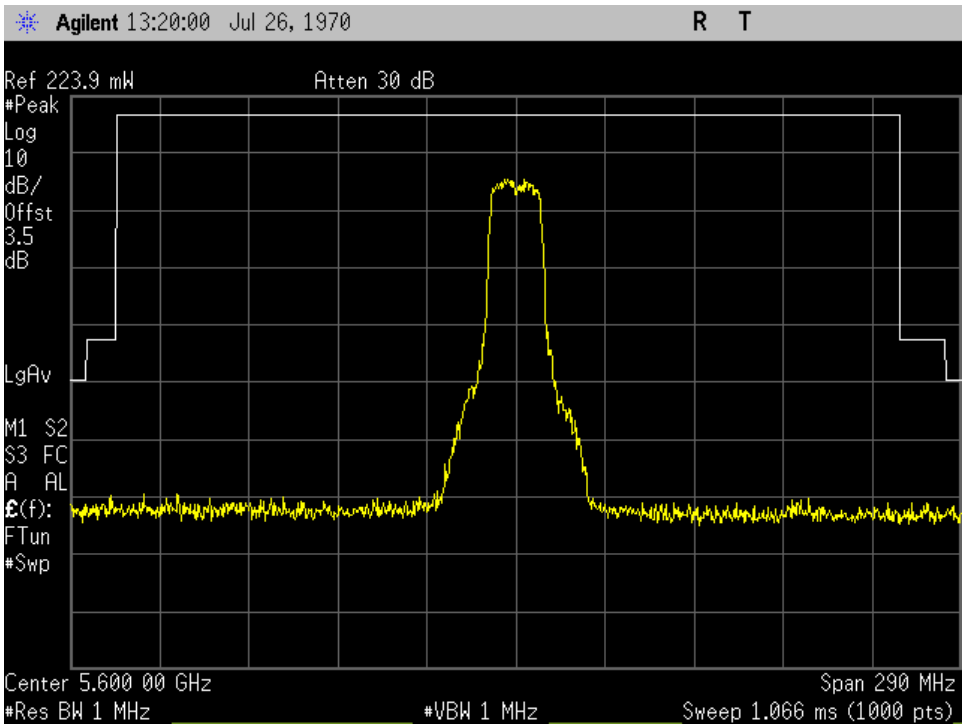


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W56_5600MHz_Mid Ch_120_20MHz BW_a-mode_Emission Mask _Port 1

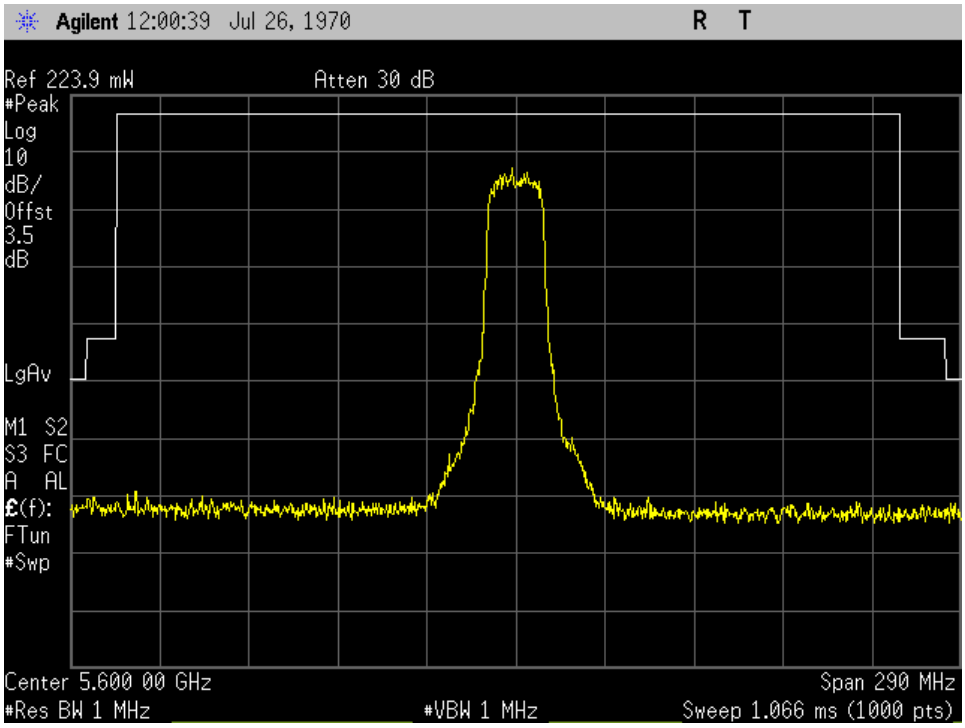


W56_5600MHz_Mid Ch_120_20MHz BW_a-mode_Emission Mask _Port 2

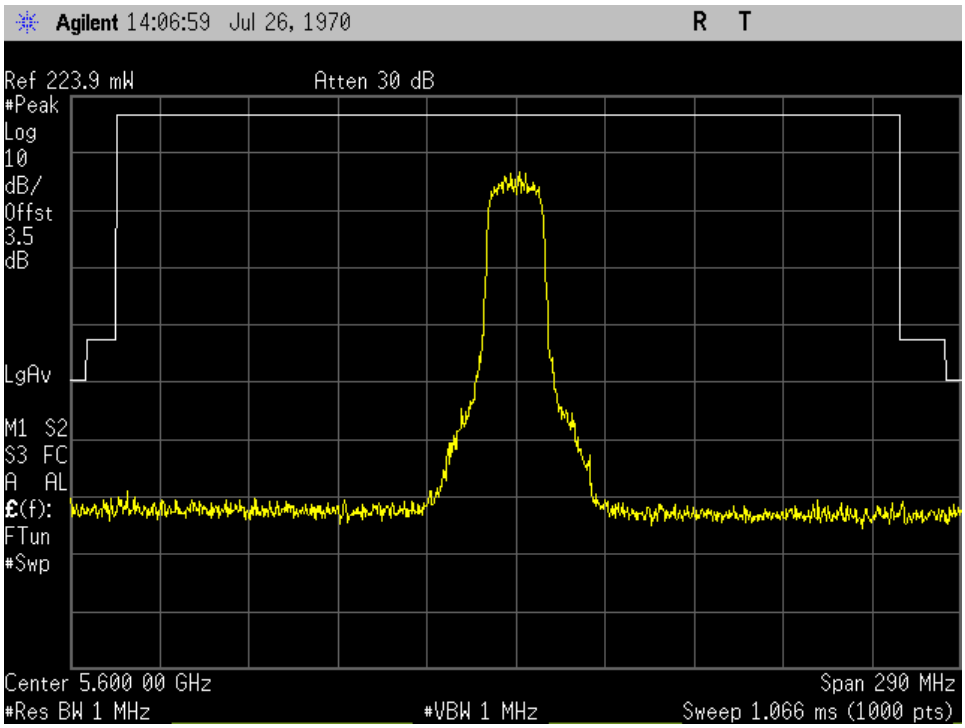


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W56_5600MHz_Mid Ch_120_20MHz BW_ac-mode_Emission Mask _Port 1

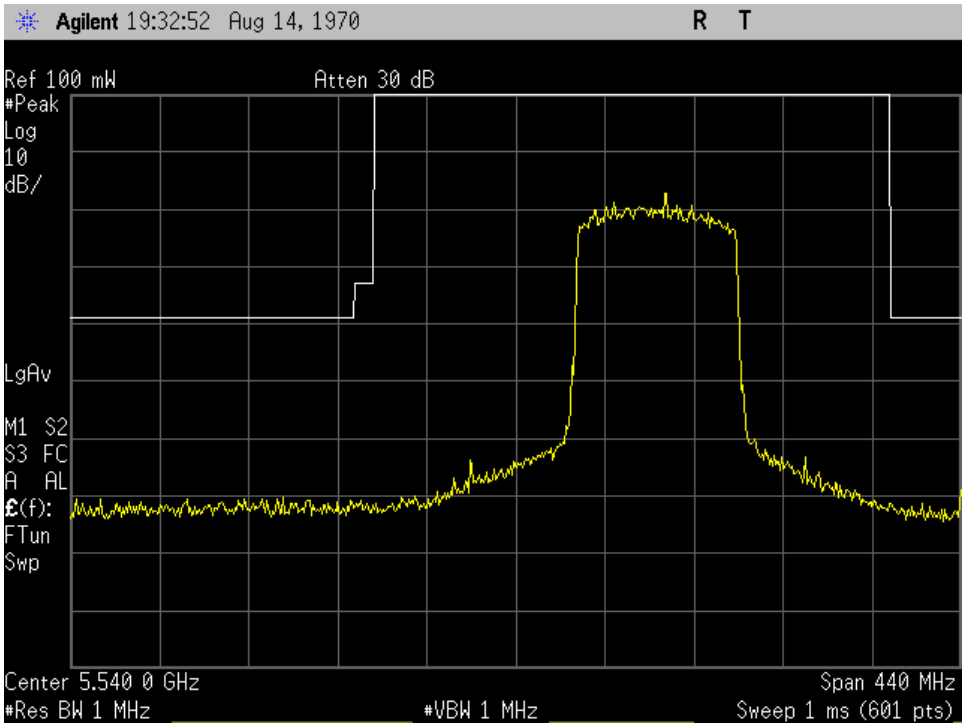


W56_5600MHz_Mid Ch_120_20MHz BW_ac-mode_Emission Mask _Port 2

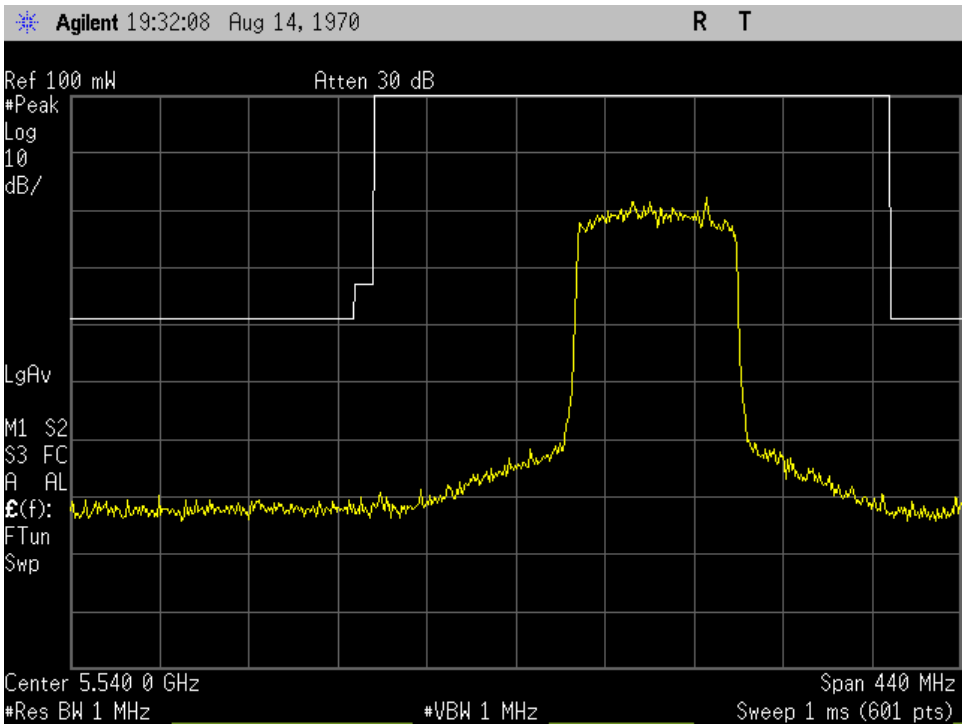


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W56_5610MHz_High Ch_122_80MHz BW_ac-mode_Emission Mask _Port 1

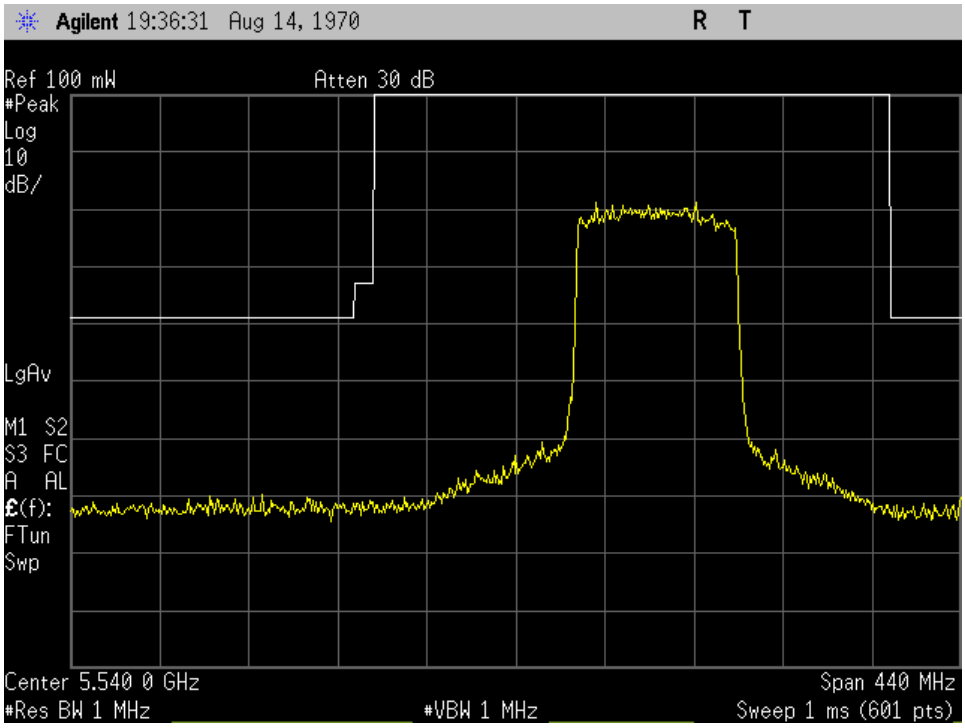


W56_5610MHz_High Ch_122_80MHz BW_ac-mode_Emission Mask _Port 2

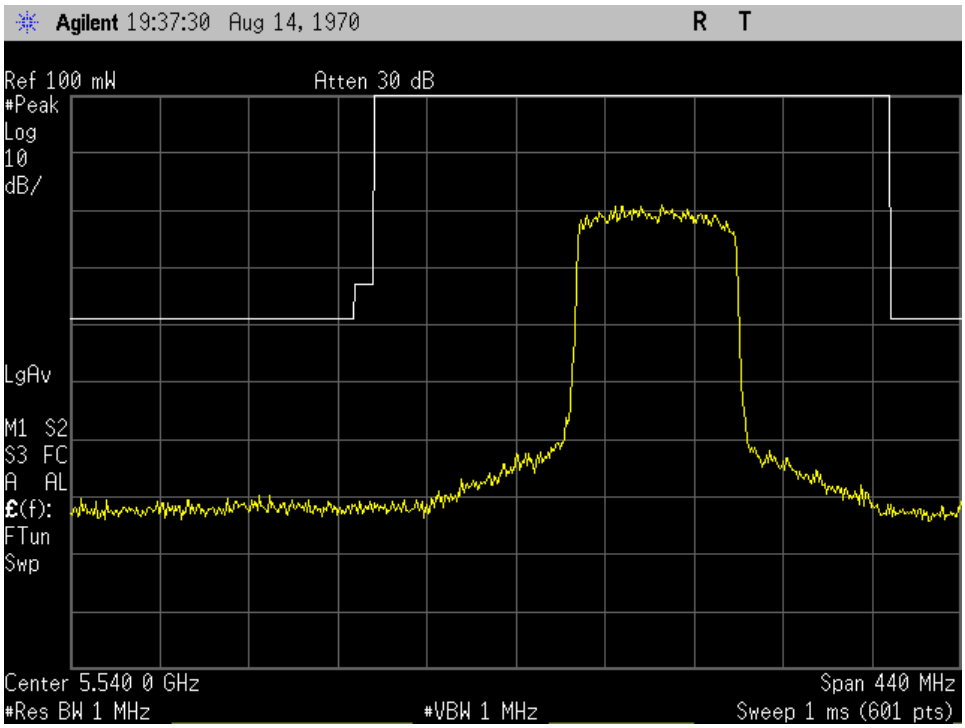


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W56_5610MHz_High Ch_122_80MHz BW_ax-mode_Emission Mask _Port 1

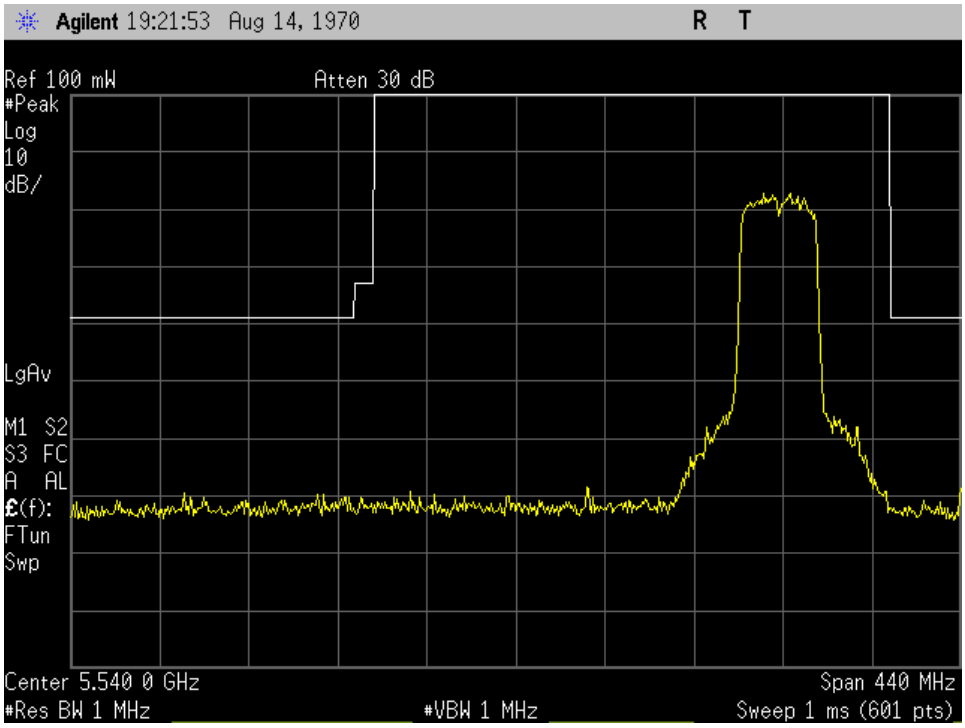


W56_5610MHz_High Ch_122_80MHz BW_ax-mode_Emission Mask _Port 2

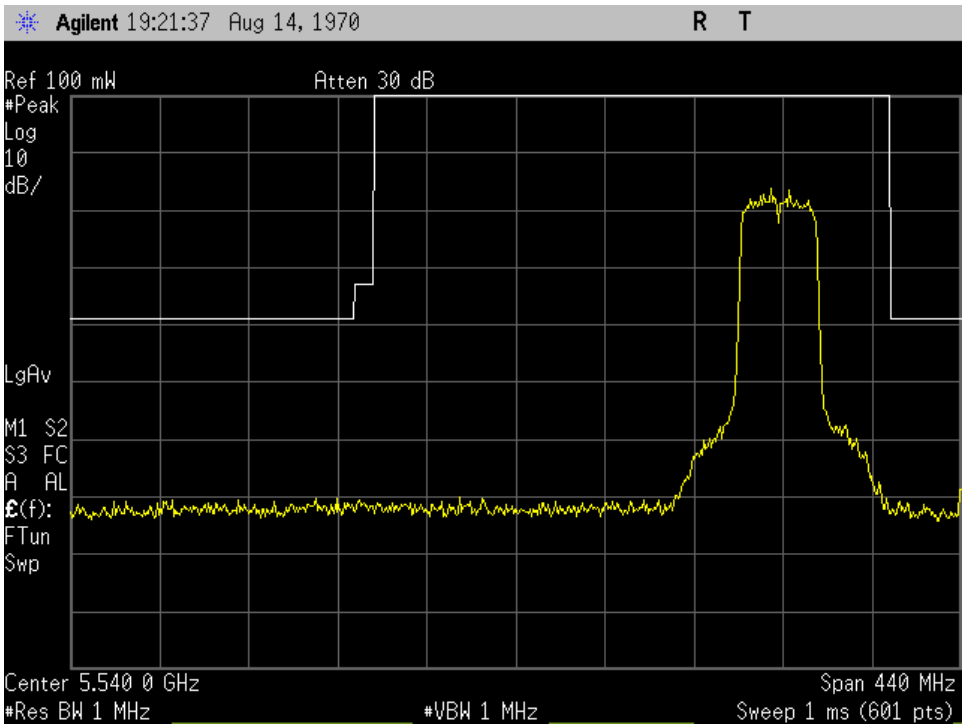


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W56_5670MHz_Low Ch_134_40MHz BW_ac-mode_Emission Mask _Port 1

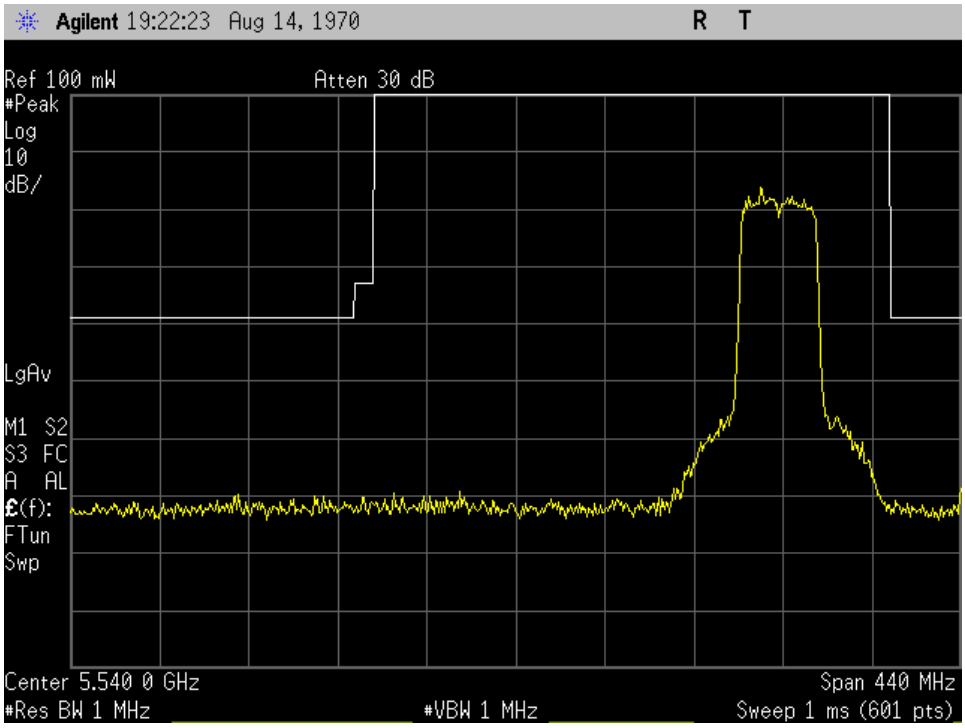


W56_5670MHz_Low Ch_134_40MHz BW_ac-mode_Emission Mask _Port 2

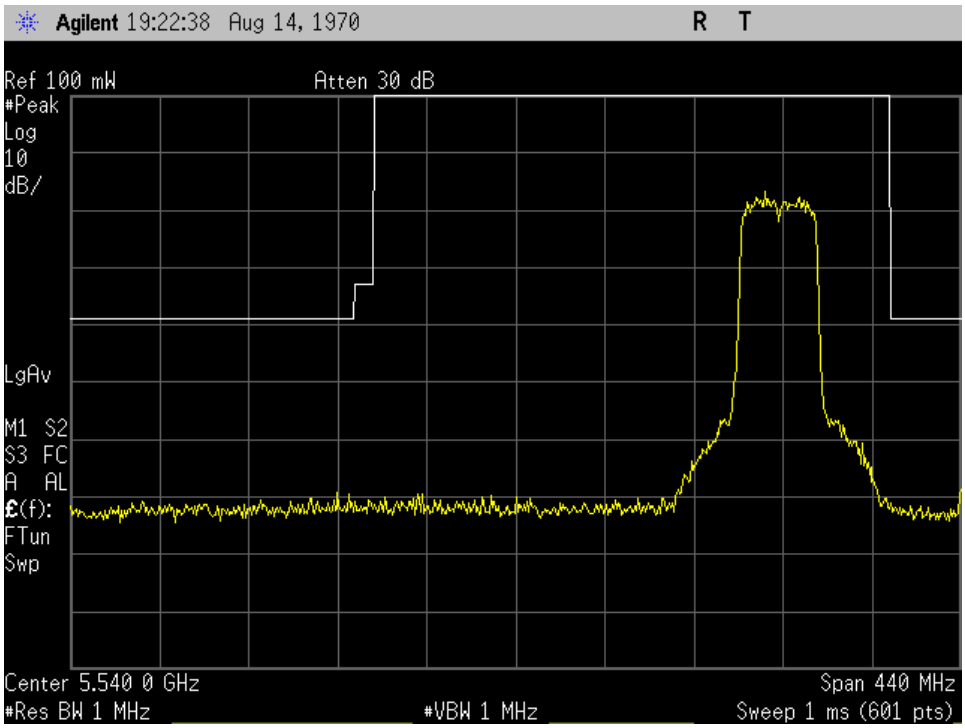


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W56_5670MHz_Low Ch_134_40MHz BW_ax-mode_Emission Mask _Port 1

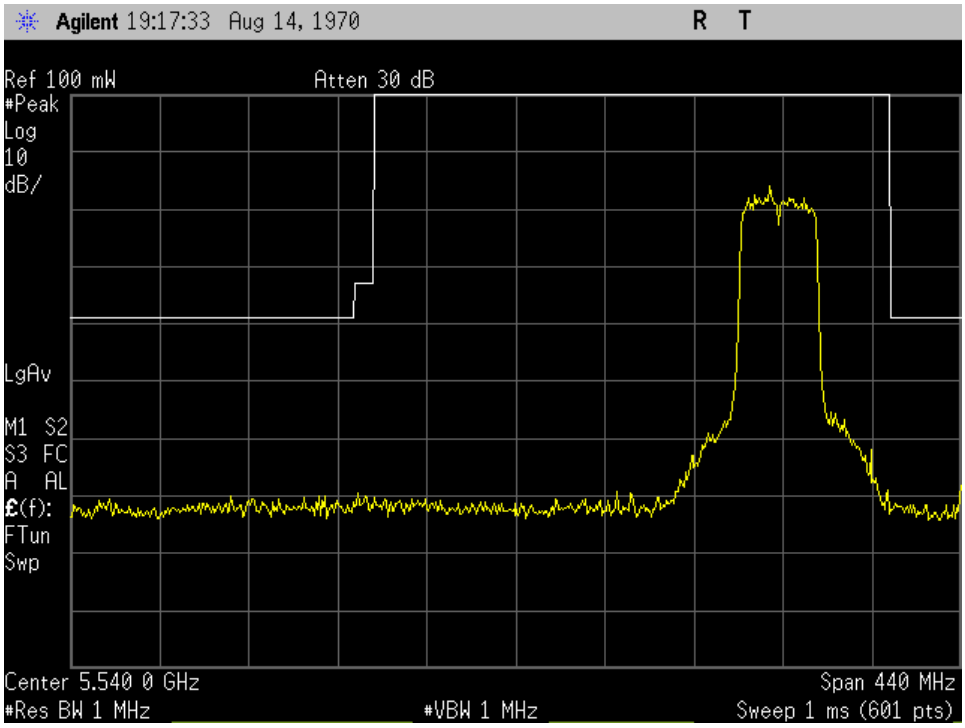


W56_5670MHz_Low Ch_134_40MHz BW_ax-mode_Emission Mask _Port 2

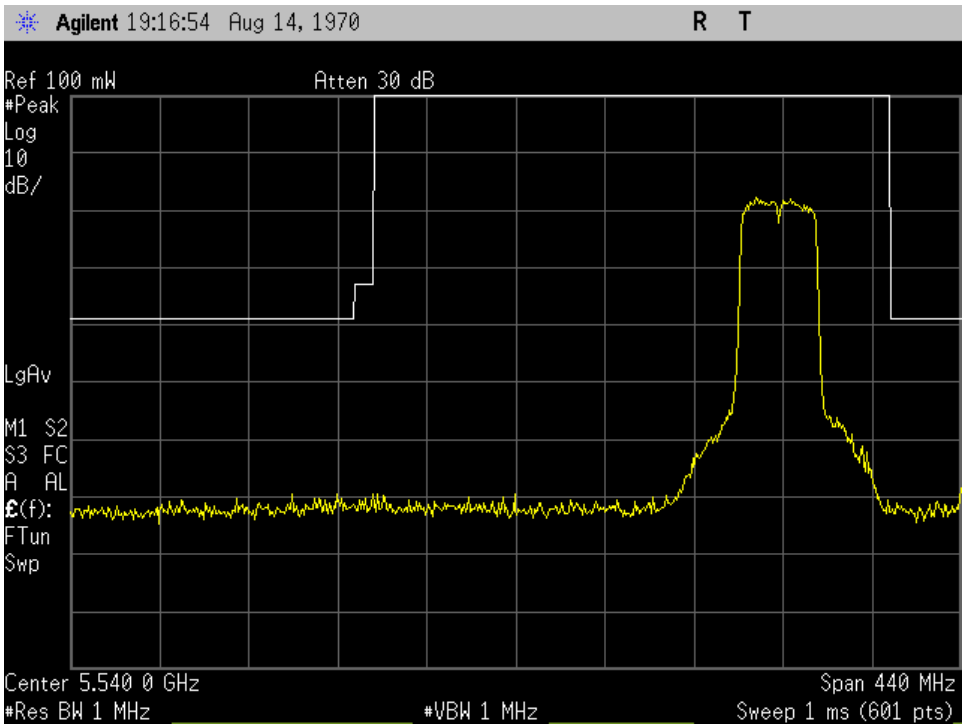


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W56_5670MHz_Low Ch_134_40MHz BW_n-mode_Emission Mask _Port 1

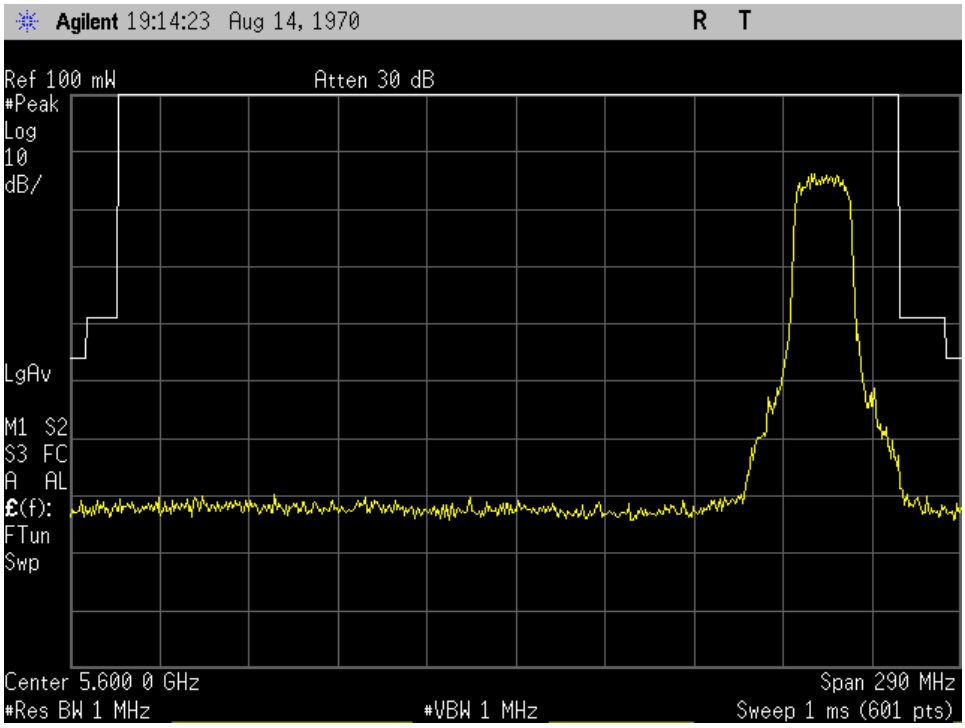


W56_5670MHz_Low Ch_134_40MHz BW_n-mode_Emission Mask _Port 2

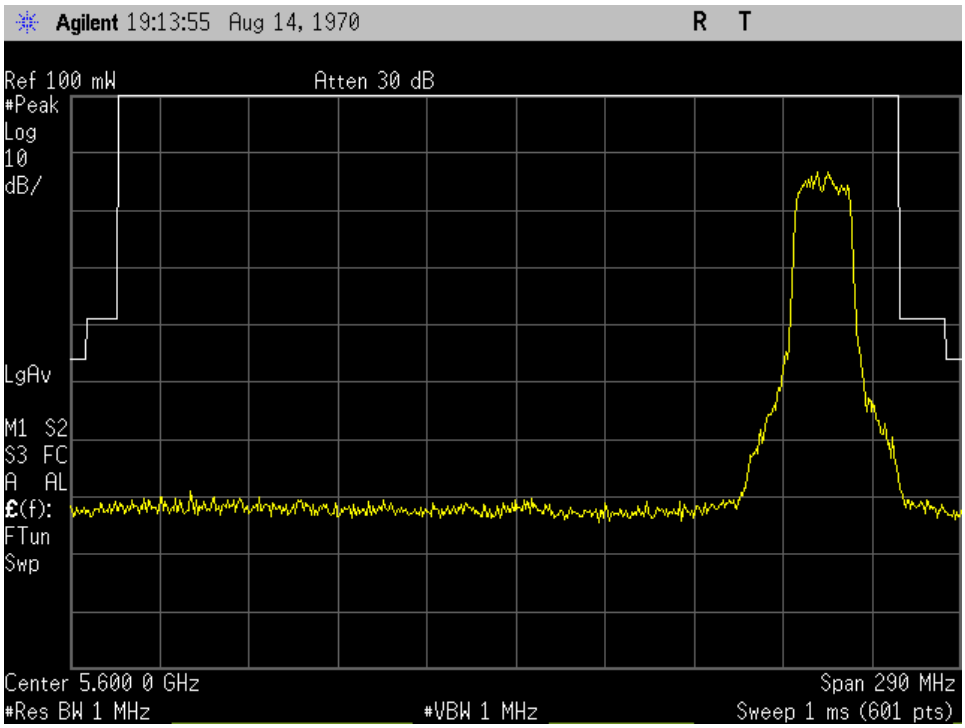


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W56_5700MHz_High Ch_140_20MHz BW_a-mode_Emission Mask _Port 1

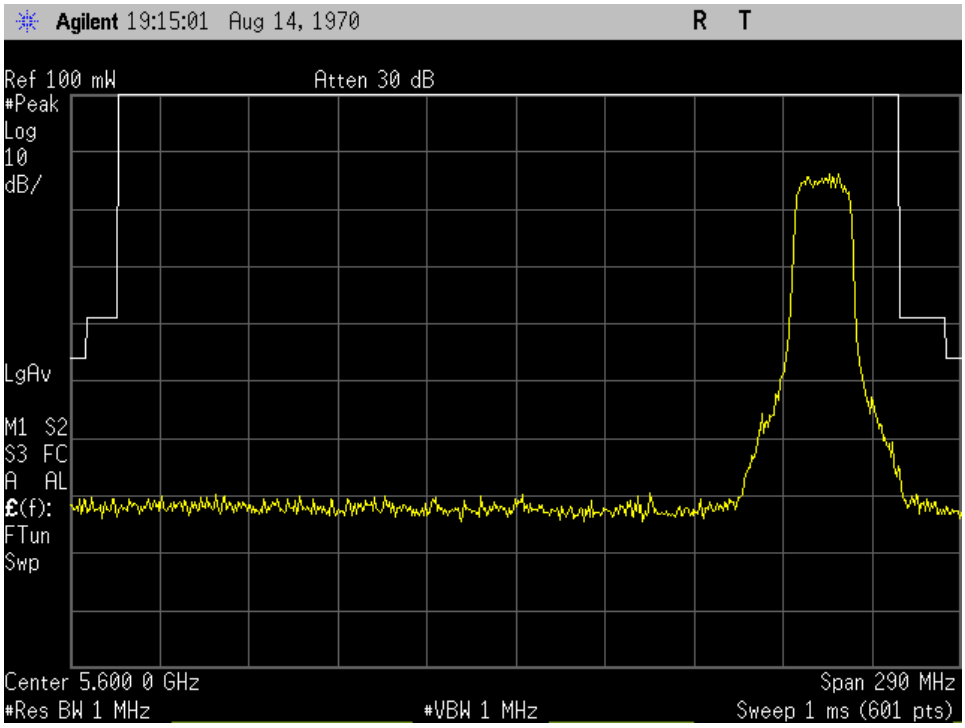


W56_5700MHz_High Ch_140_20MHz BW_a-mode_Emission Mask _Port 2



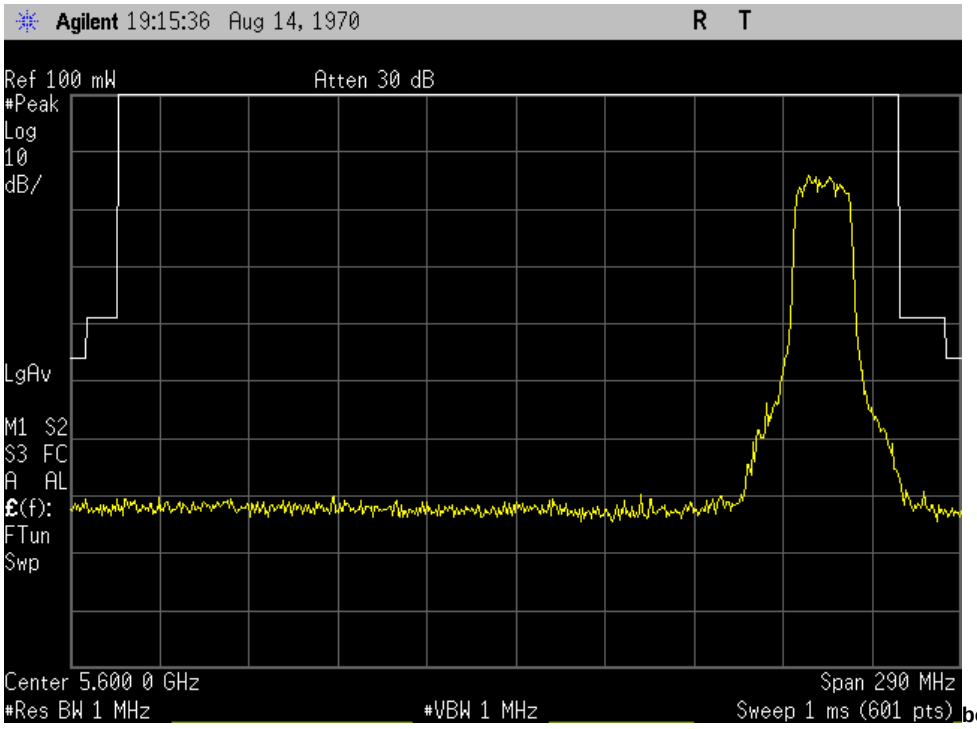
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W56_5700MHz_Low Ch_140_20MHz BW_n-mode_Emission Mask _Port 1



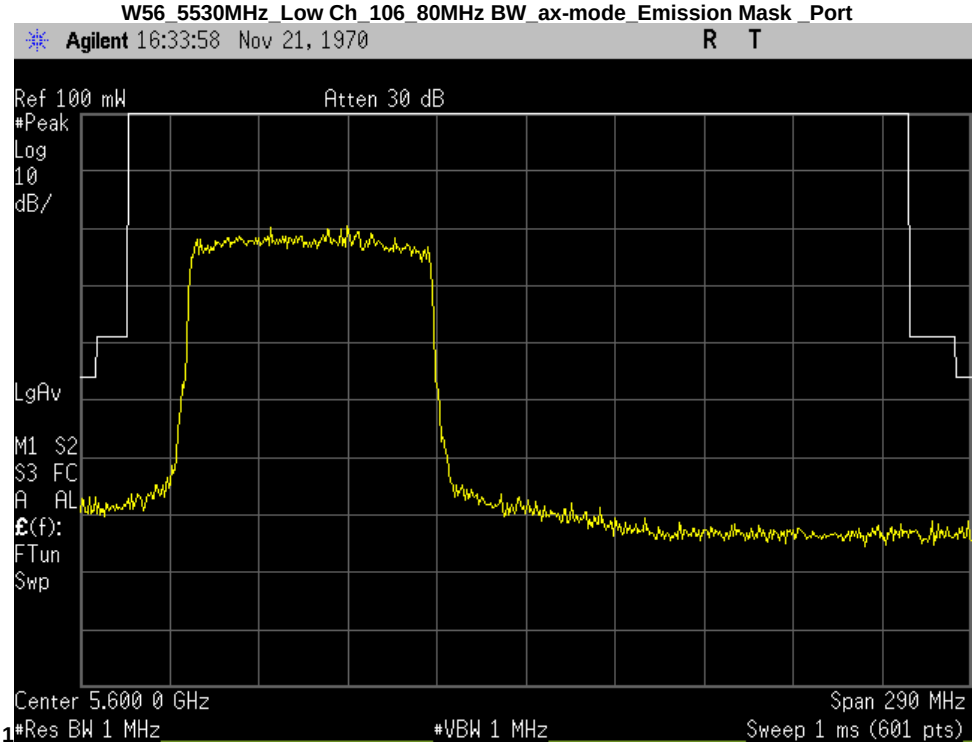
W56_5700MHz_Low Ch_140_20MHz BW_n-mode_Emission Mask _Port 2

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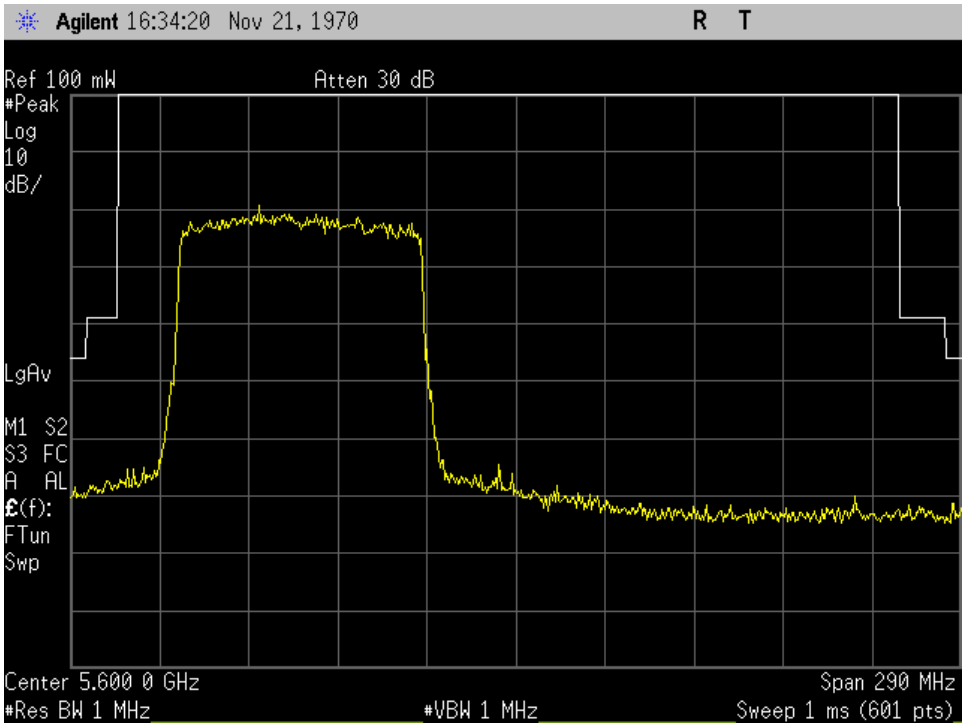
W56_5530MHz_Low Ch_106_80MHz BW_ax-mode_Emission Mask _Port



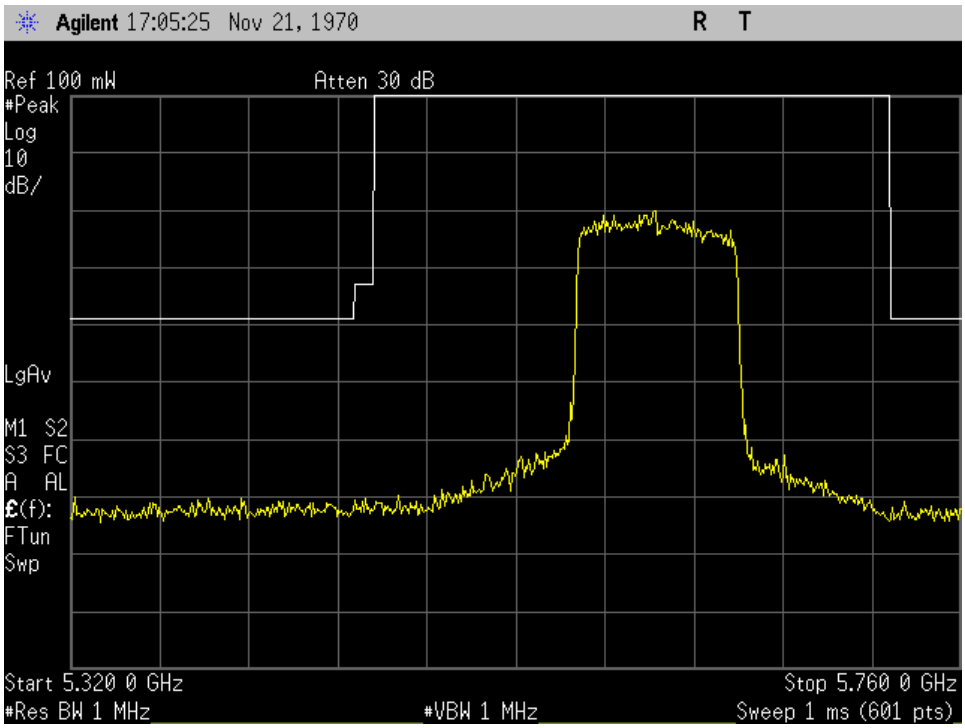
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W56_5530MHz_Low Ch_106_80MHz BW_ax-mode_Emission Mask _Port 2

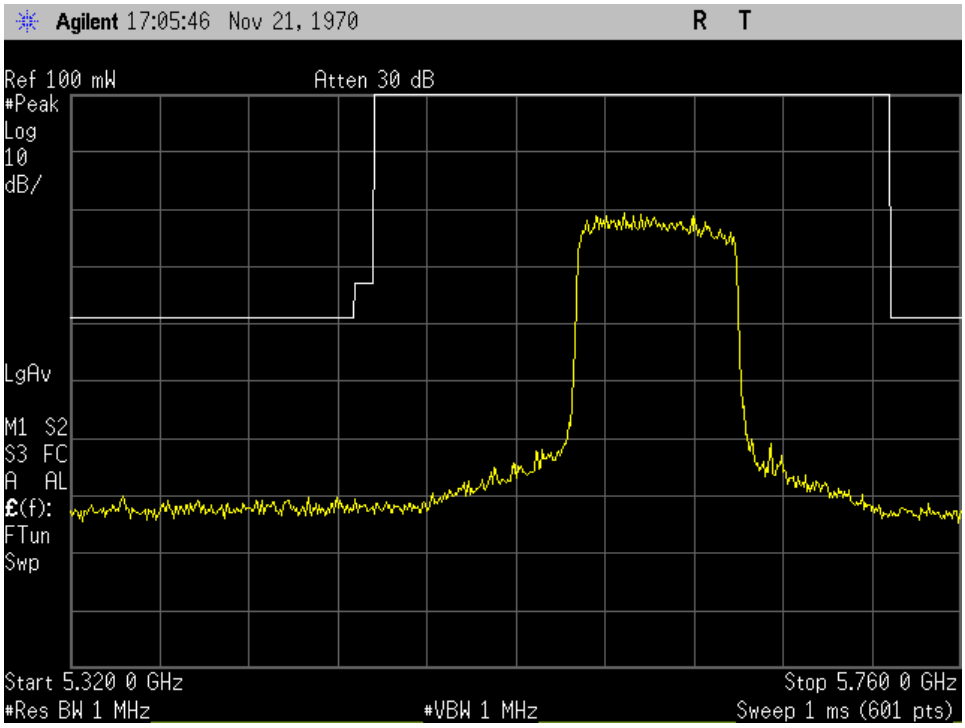


W56_5610MHz_High Ch_122_80MHz BW_ax-mode_Emission Mask _Port 1

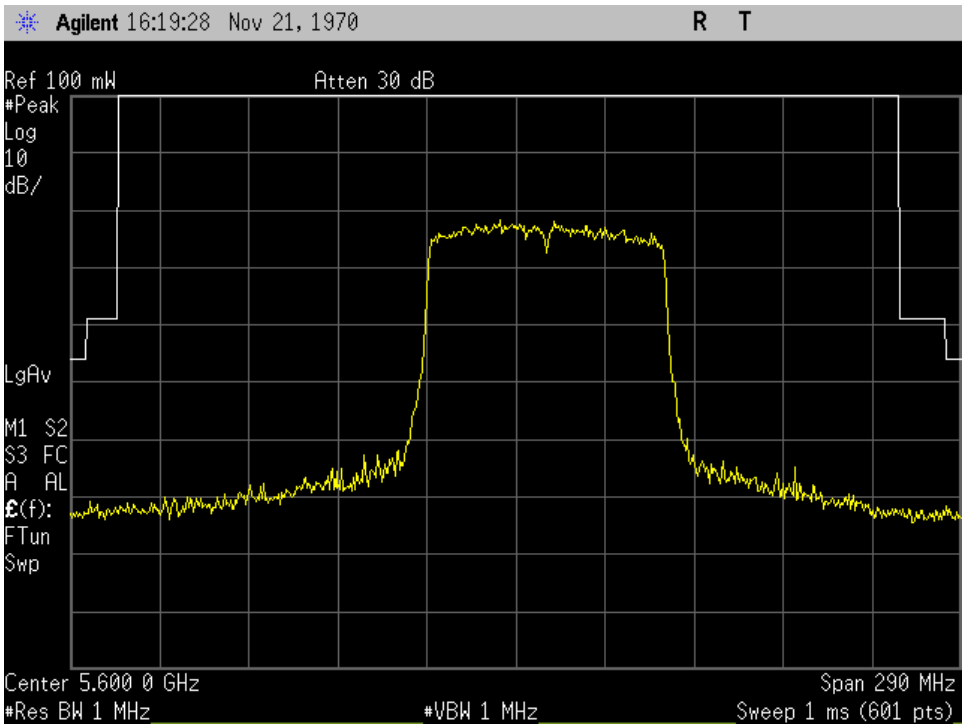


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W56_5610MHz_High Ch_122_80MHz BW_ax-mode_Emission Mask _Port 2

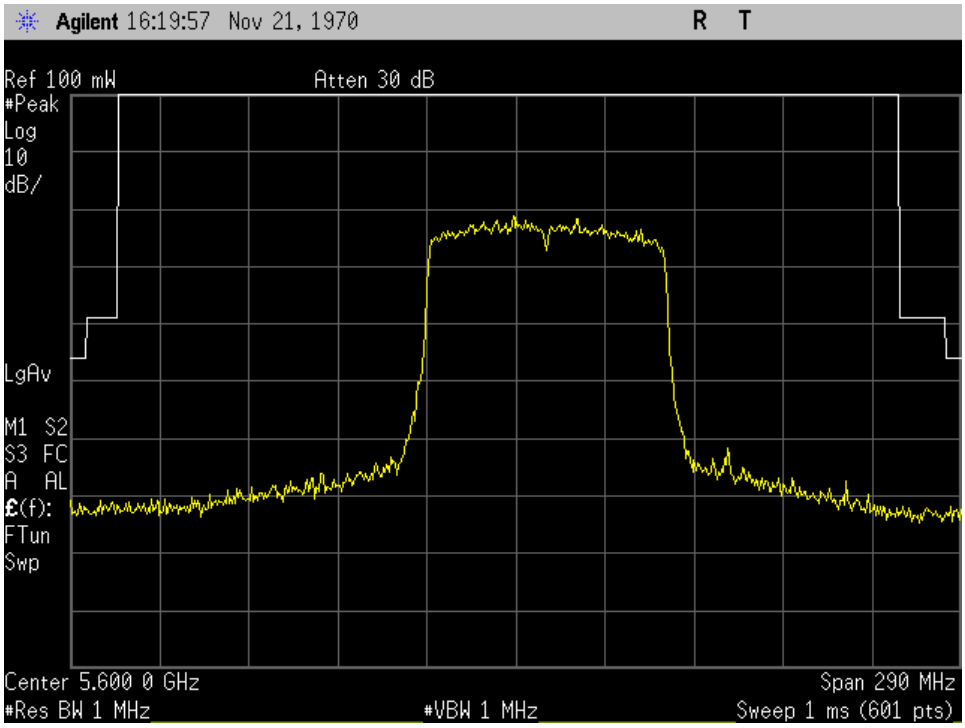


W56_5610MHz_Mid Ch_122_80MHz BW_ac-mode_Emission Mask _Port 1

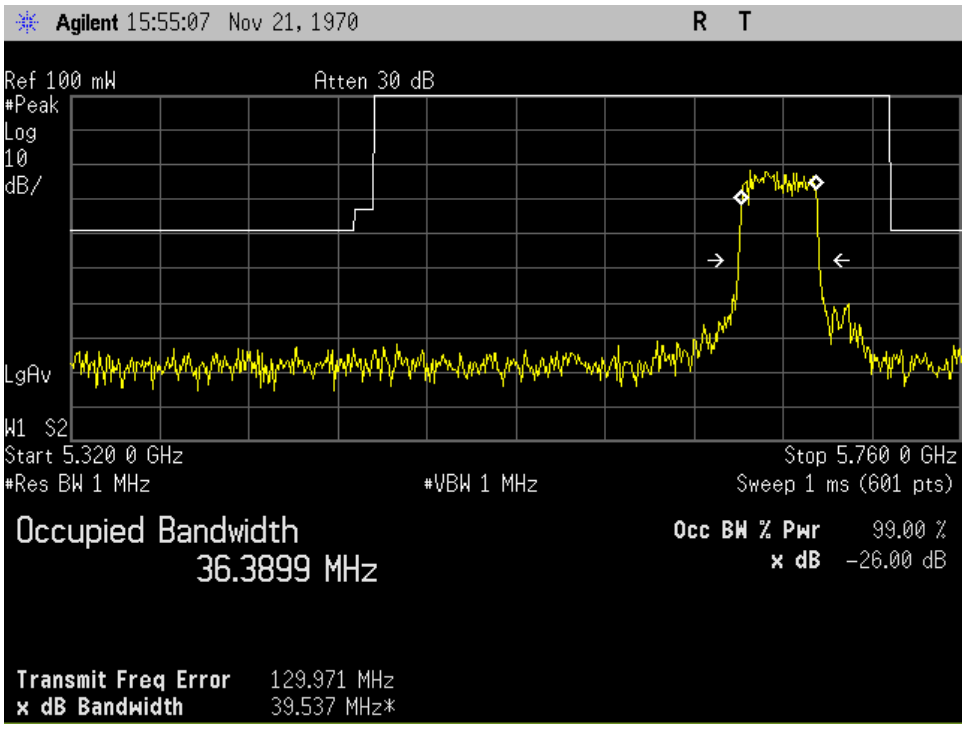


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W56_5610MHz_Mid Ch_122_80MHz BW_ac-mode_Emission Mask _Port 2

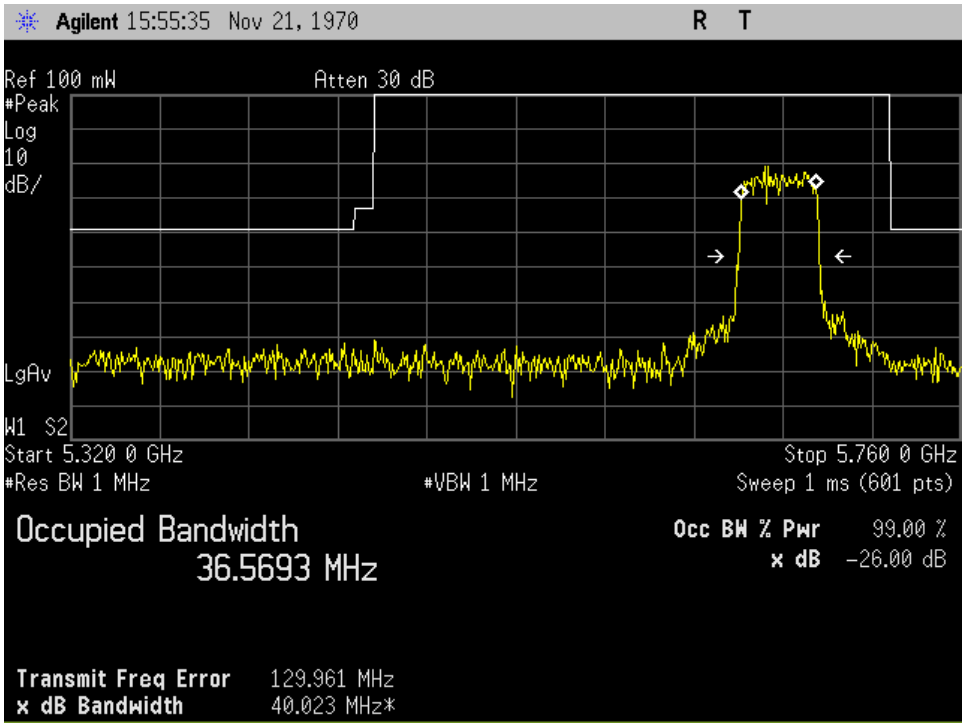


W56_5670MHz_Low Ch_134_40MHz BW_n-mode_Emission Mask _Port 1

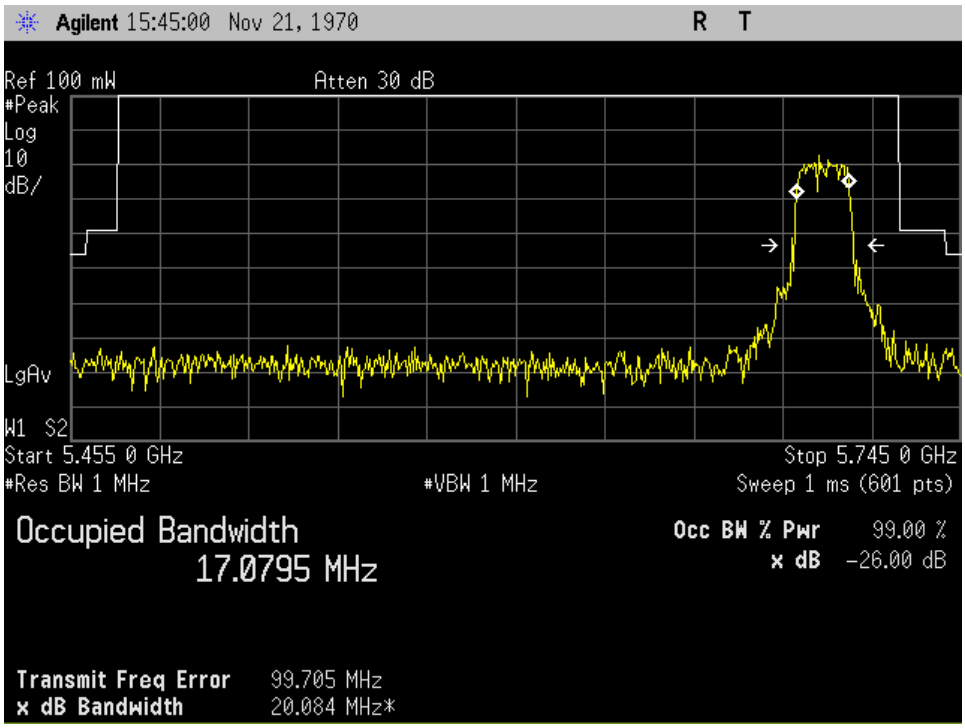


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W56_5670MHz_Low Ch_134_40MHz BW_n-mode_Emission Mask _Port 2

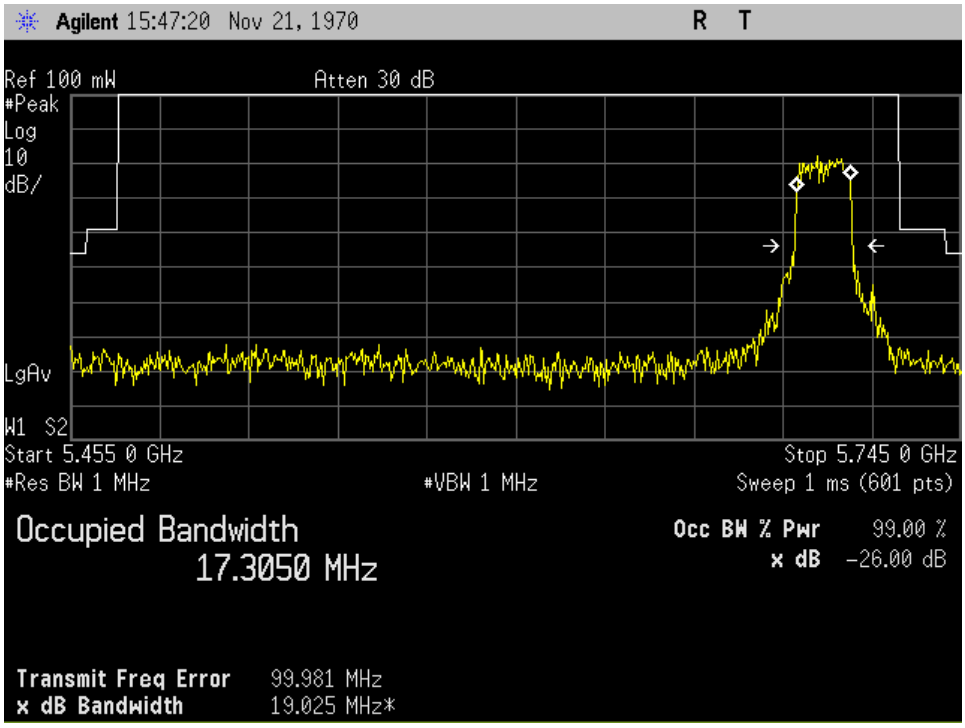


W56_5700MHz_High Ch_140_20MHz BW_a-mode_Emission Mask _Port 1

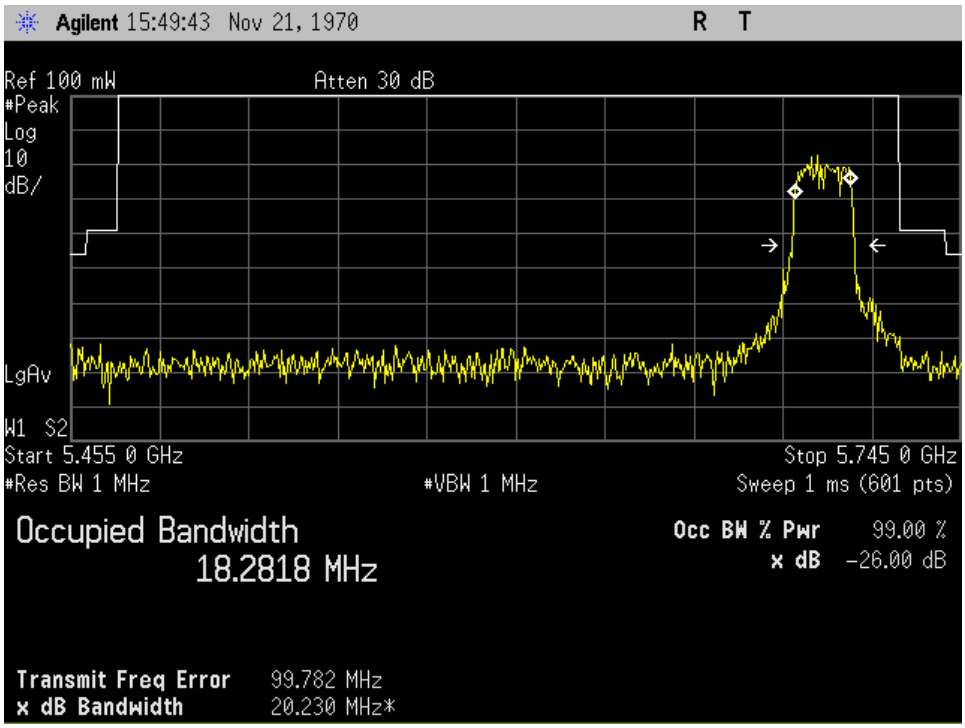


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W56_5700MHz_High Ch_140_20MHz BW_a-mode_Emission Mask _Port 2

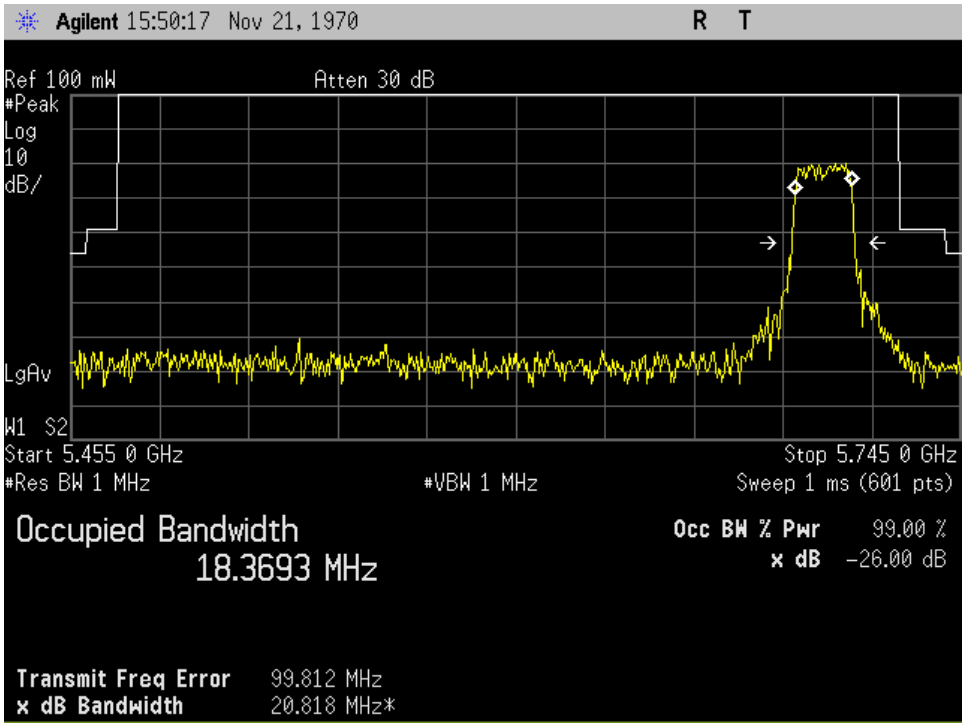


W56_5700MHz_Low Ch_140_20MHz BW_n-mode_Emission Mask _Port 1



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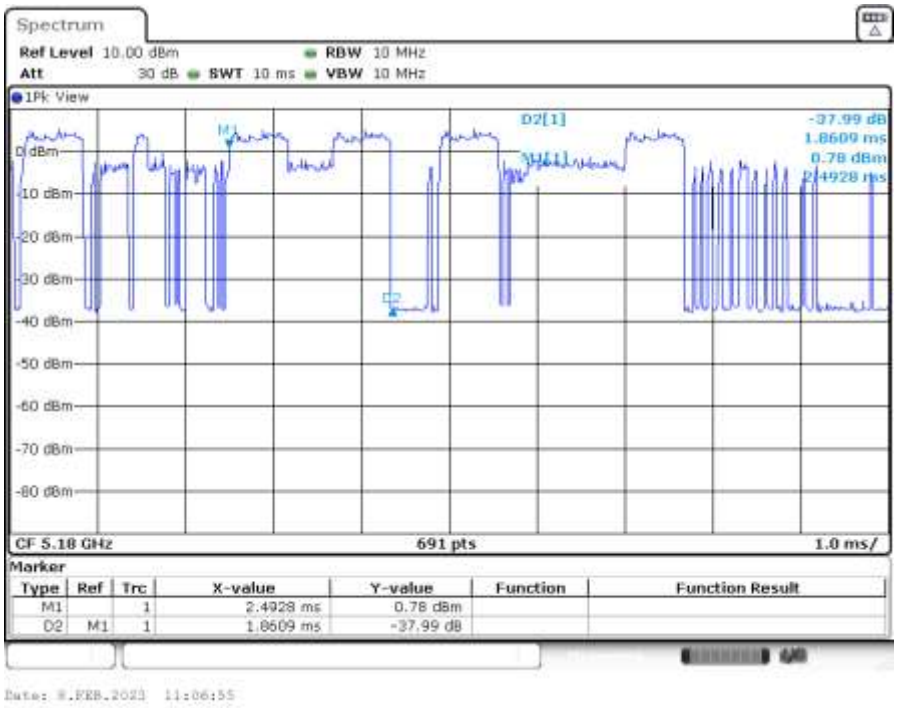
W56_5700MHz_Low Ch_140_20MHz BW_n-mode_Emission Mask _Port 2



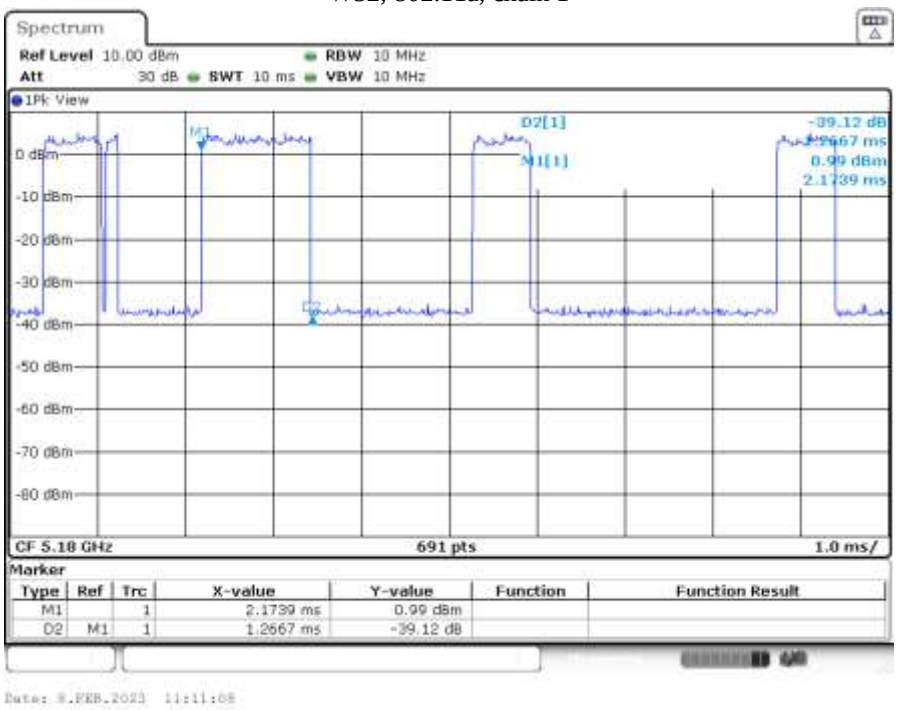
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Transmission Burst Length (Band W52)

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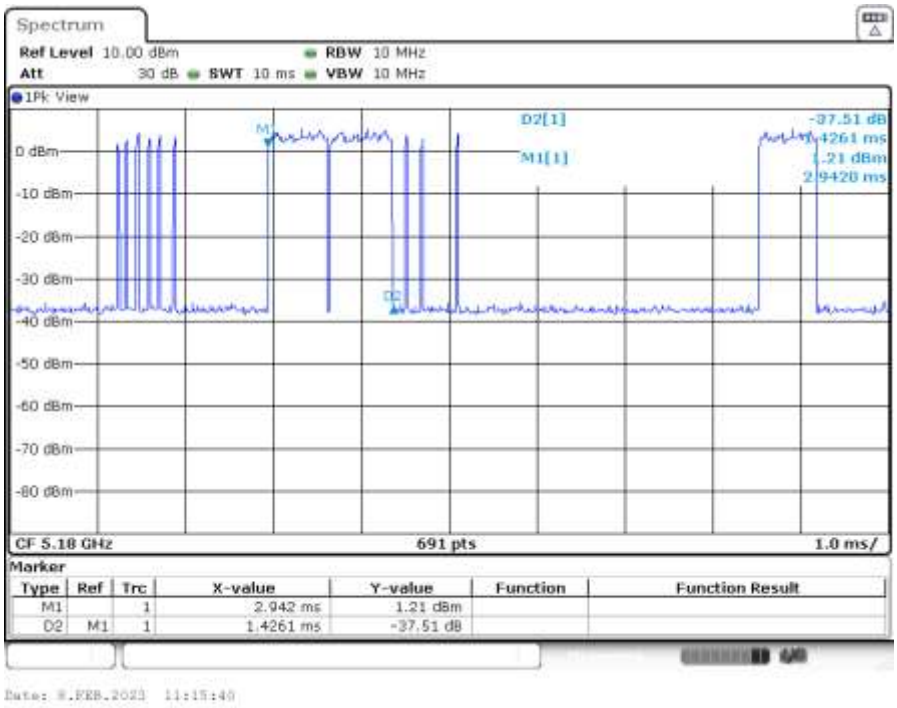


W52, 802.11a, chain 1

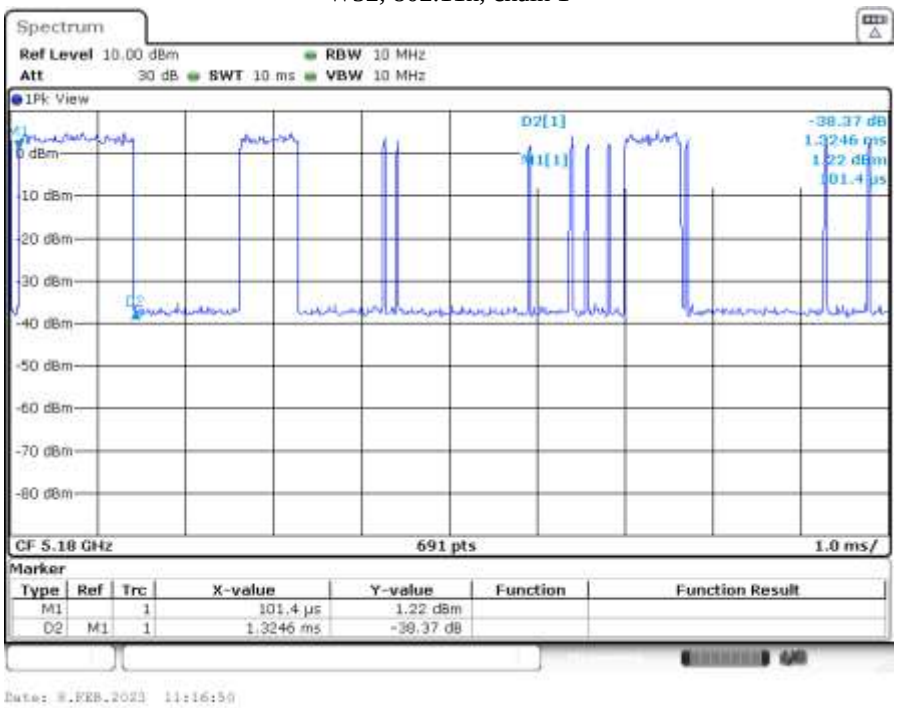


W52, 802.11a, chain 2

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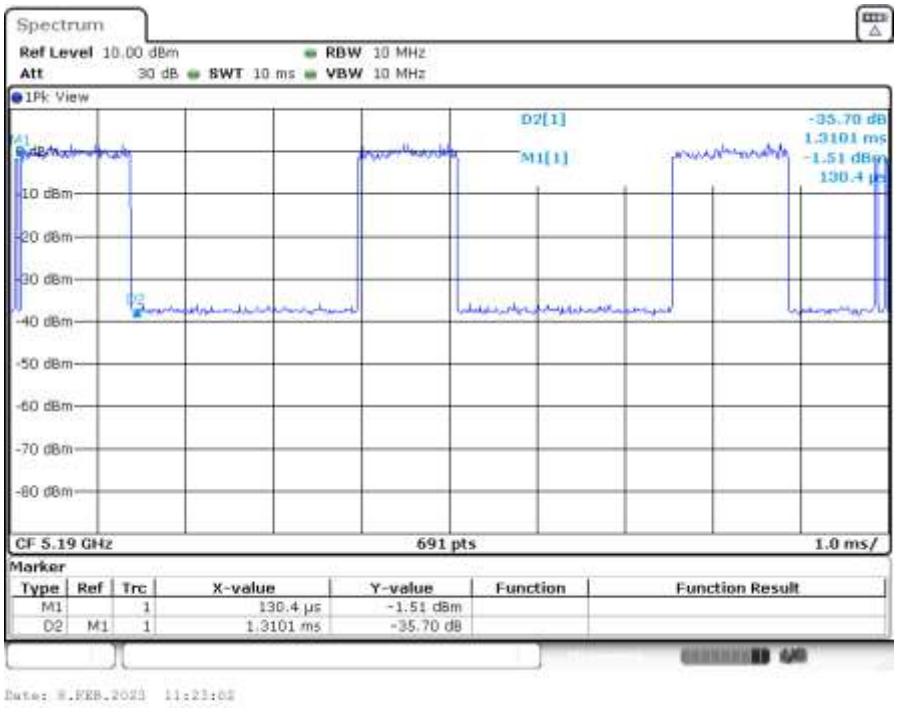
W52, 802.11n, chain 1



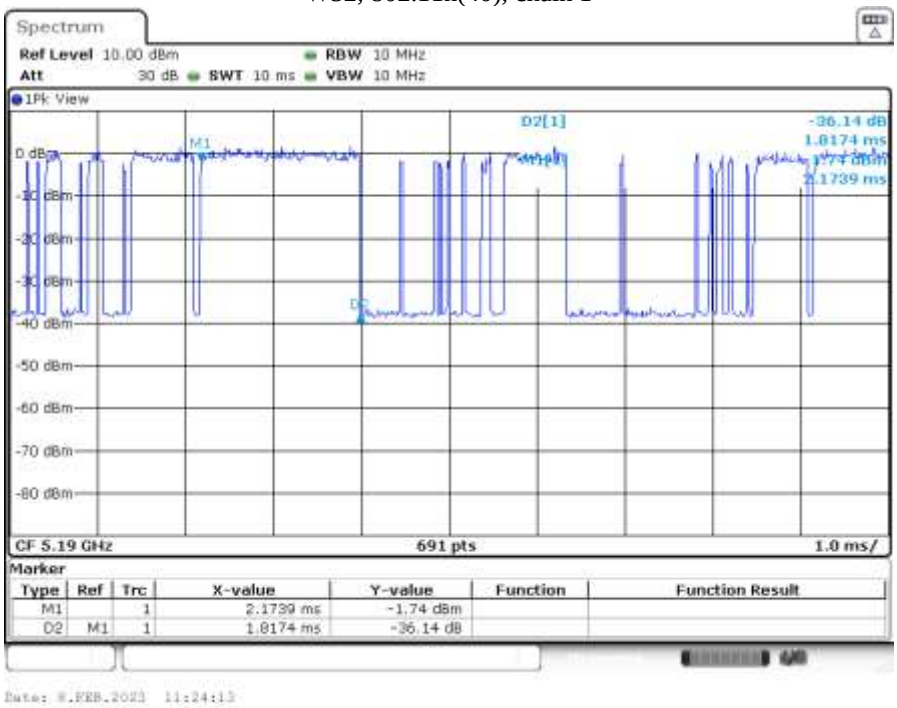
W52, 802.11n, chain 2

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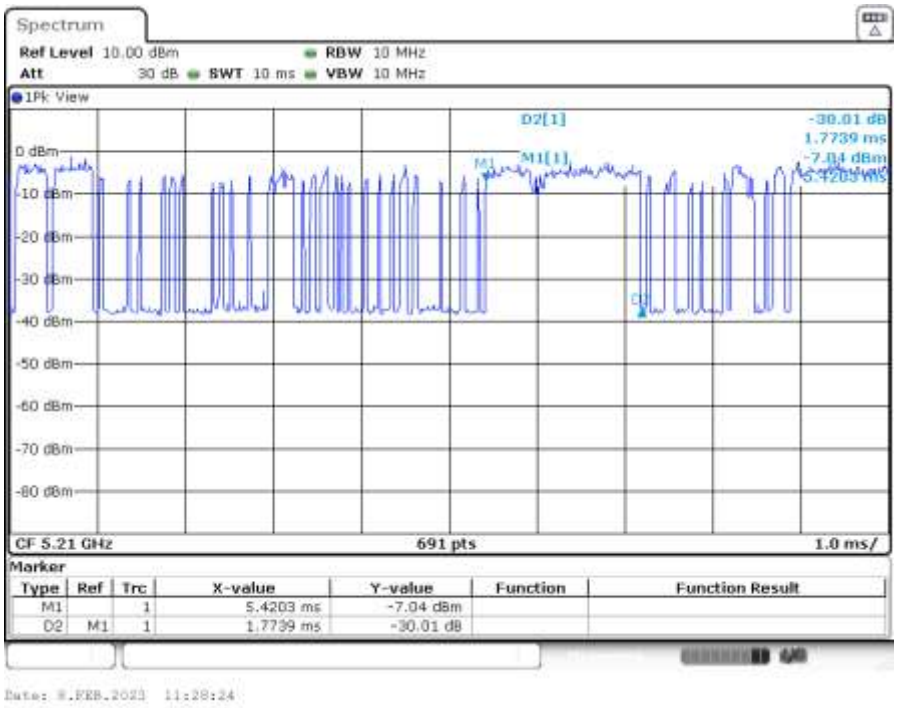


W52, 802.11n(40), chain 1

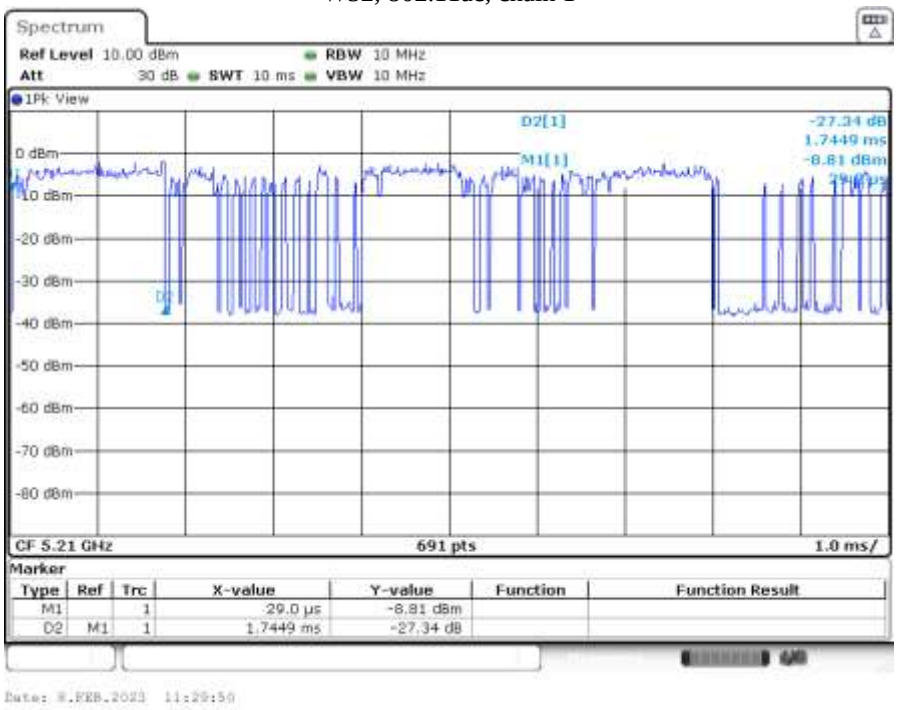


W52, 802.11n(40), chain 2

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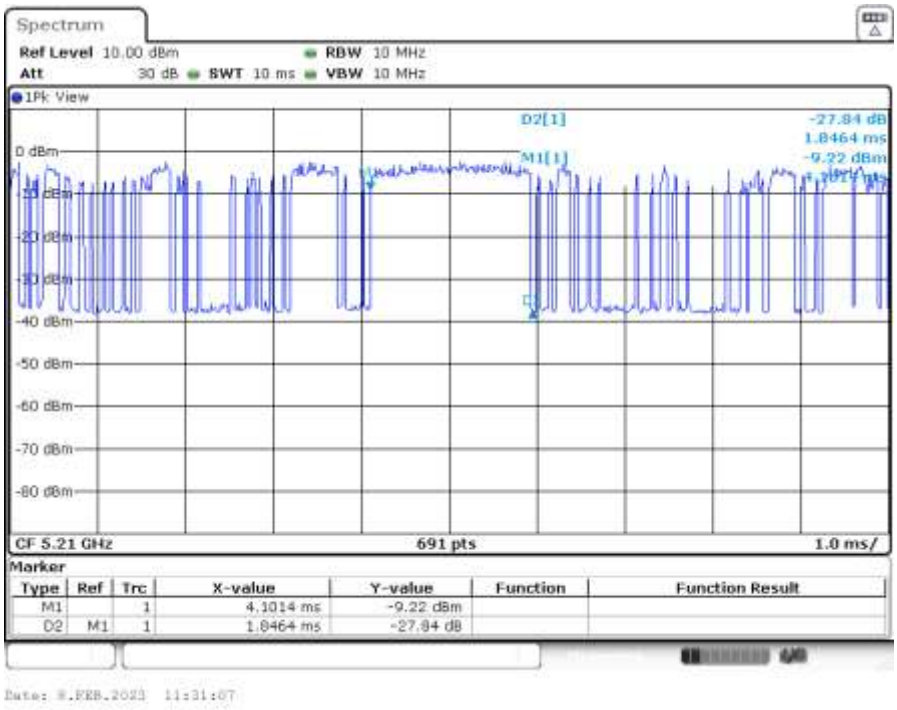


W52, 802.11ac, chain 1

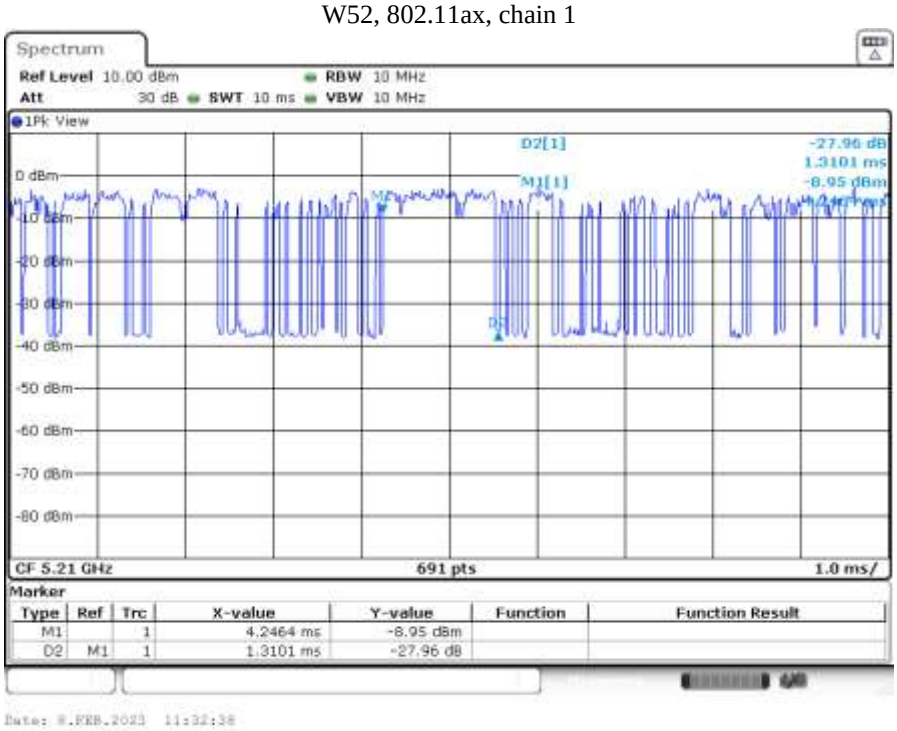


W52, 802.11ac, chain 2

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W52, 802.11ax, chain 1

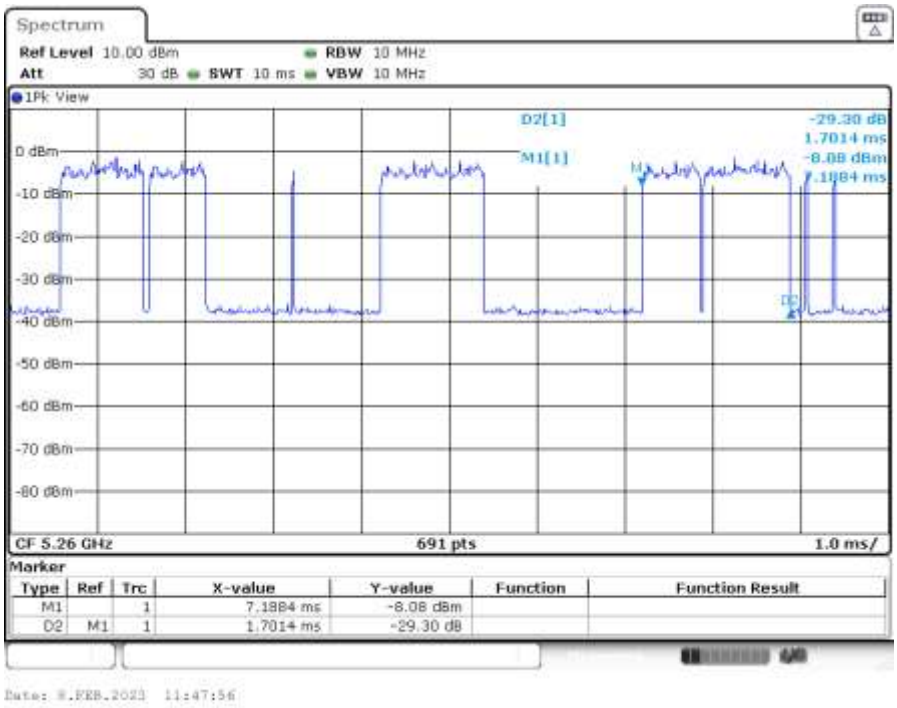


W52, 802.11ax, chain 2

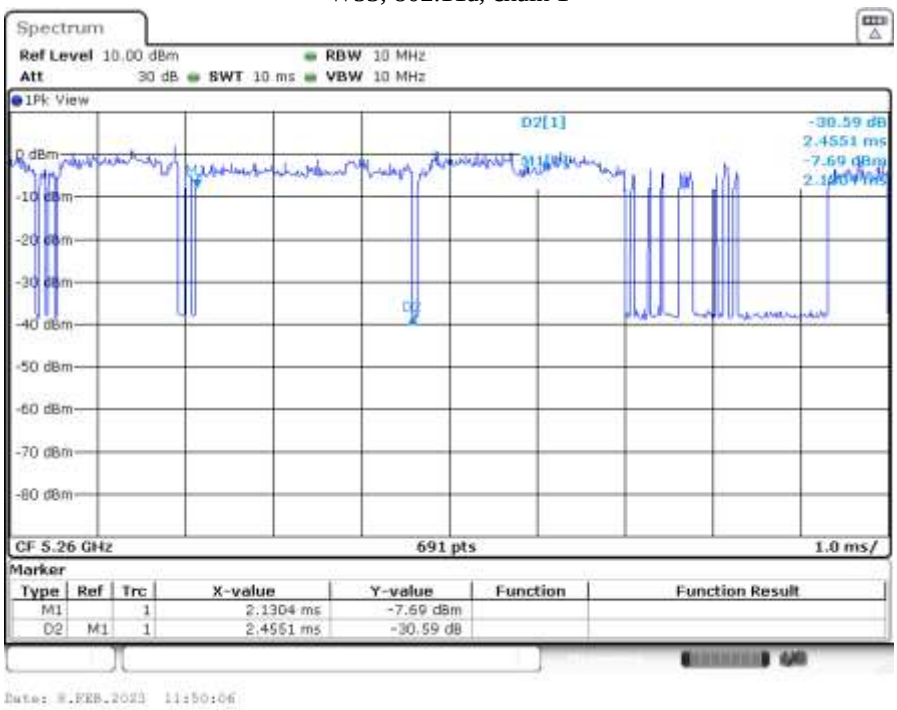
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Transmission Burst Length (Band W53)

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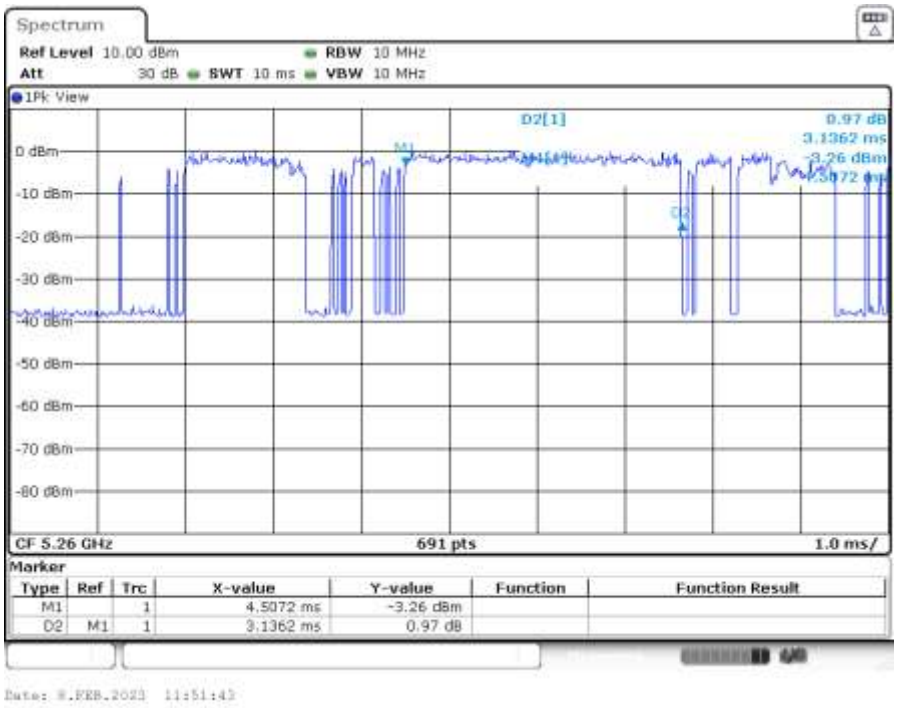


W53, 802.11a, chain 1

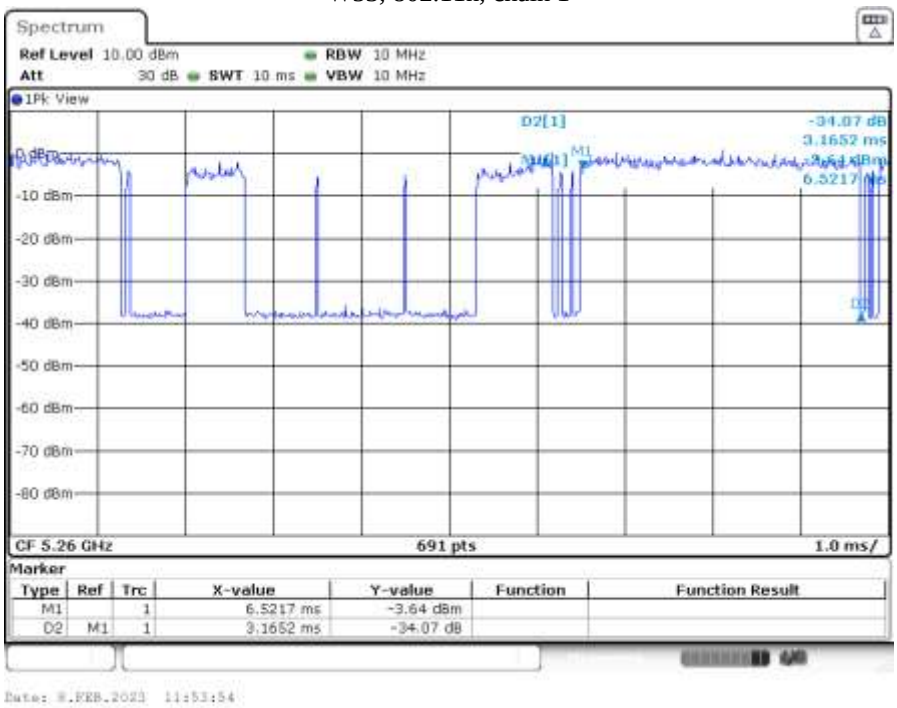


W53, 802.11a, chain 2

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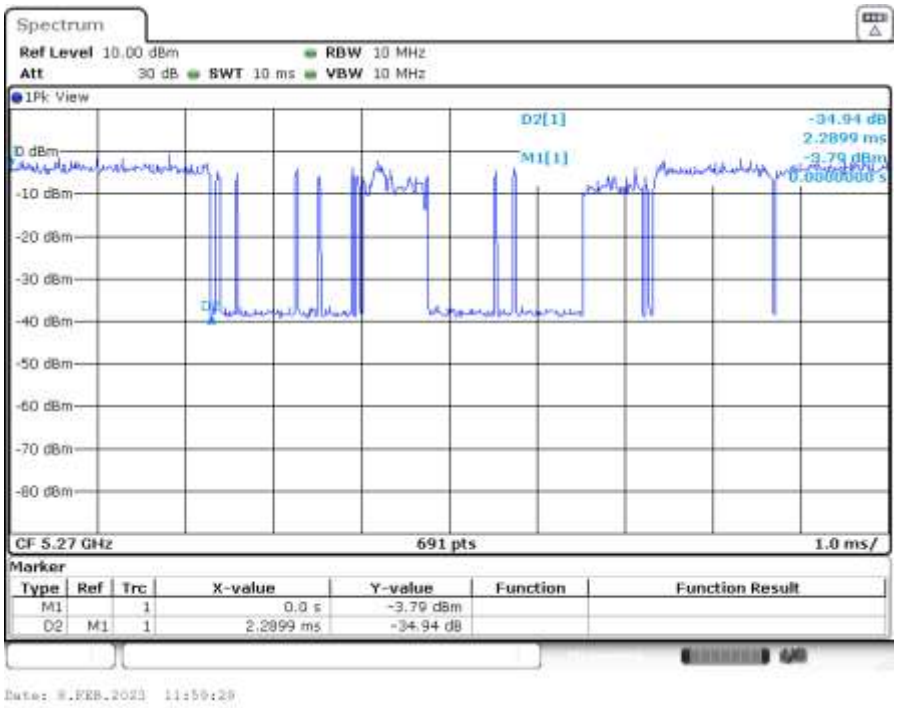


W53, 802.11n, chain 1

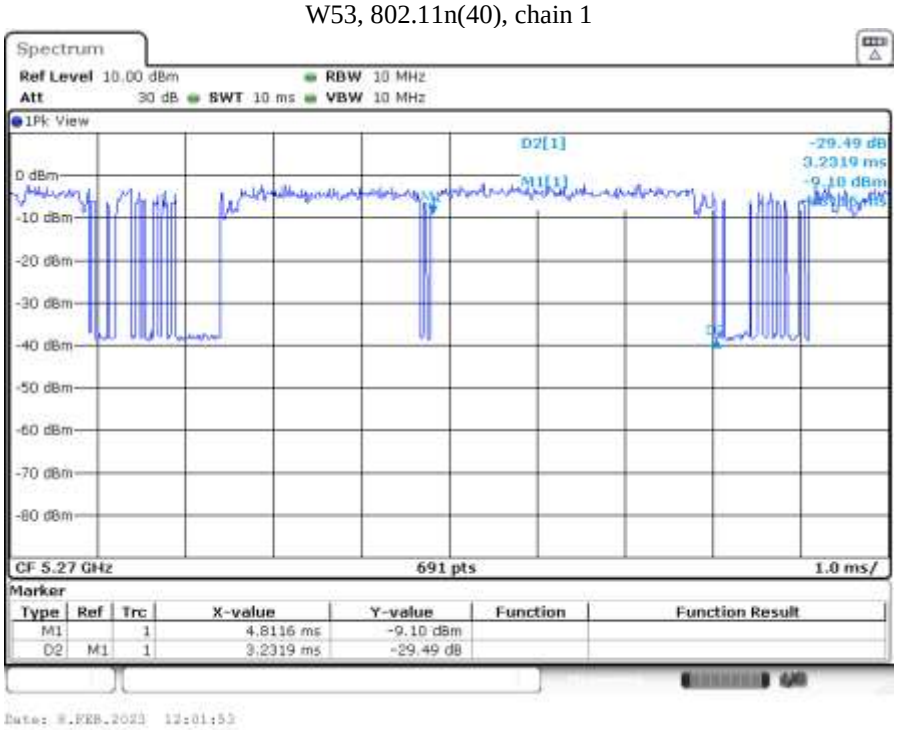


W53, 802.11n, chain 2

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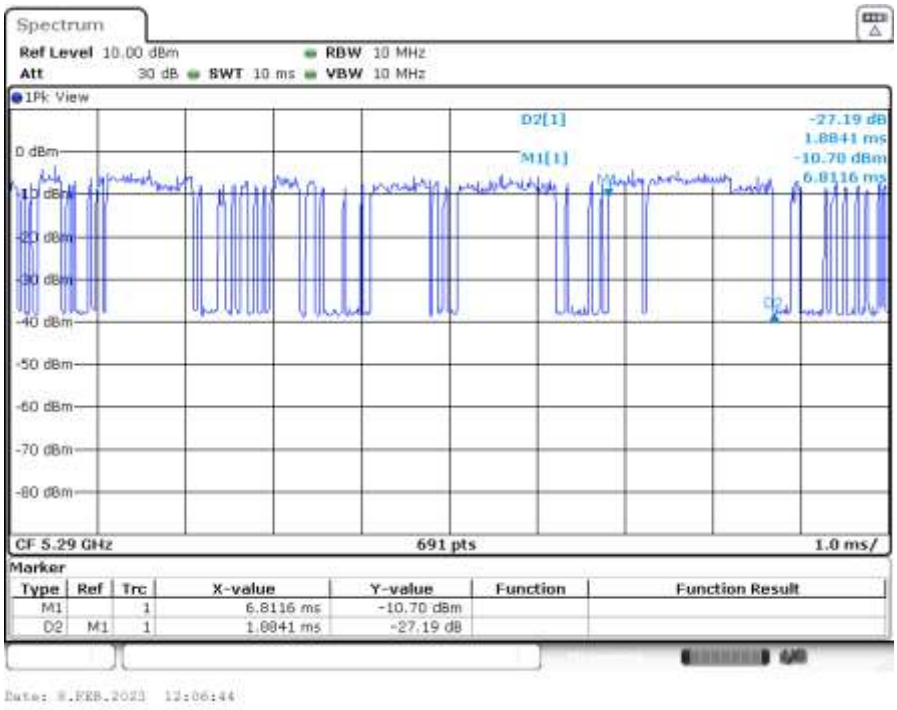


W53, 802.11n(40), chain 1

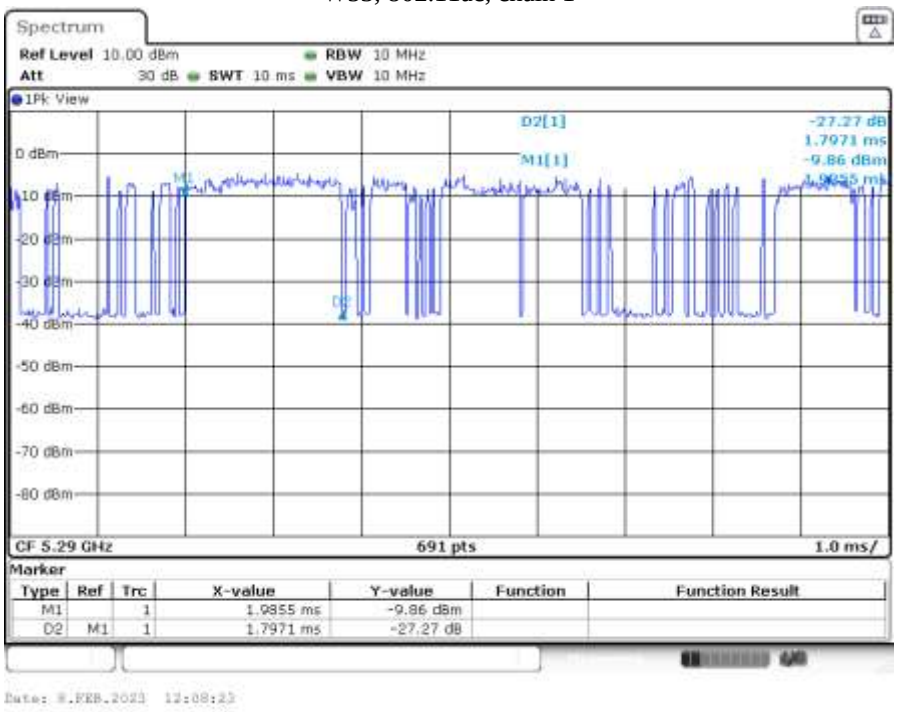


W53, 802.11n(40), chain 2

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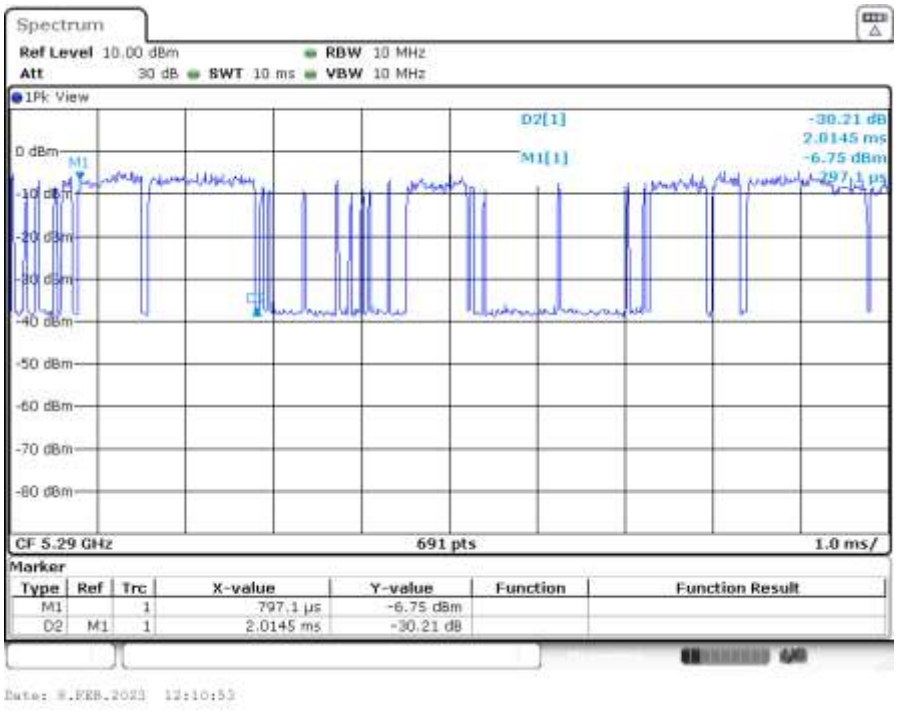


W53, 802.11ac, chain 1

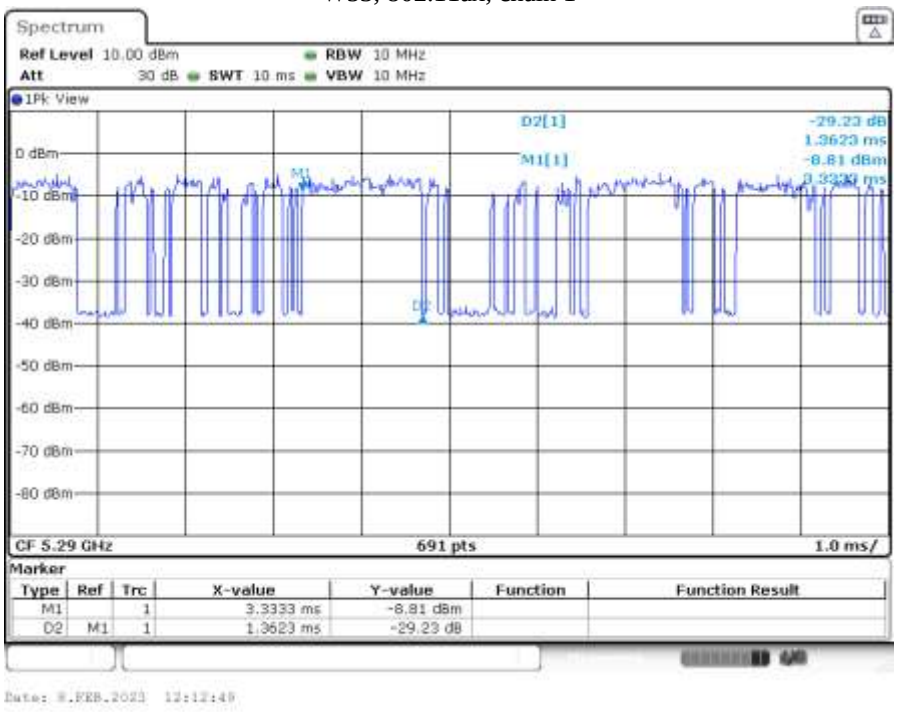


W53, 802.11ac, chain 2

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W53, 802.11ax, chain 1



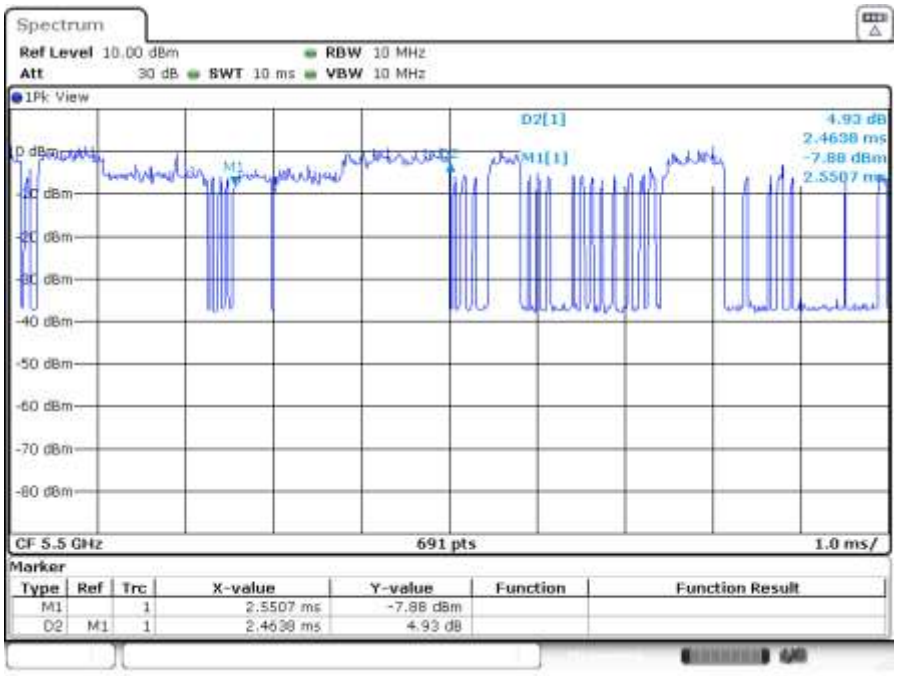
W53, 802.11ax, chain 2

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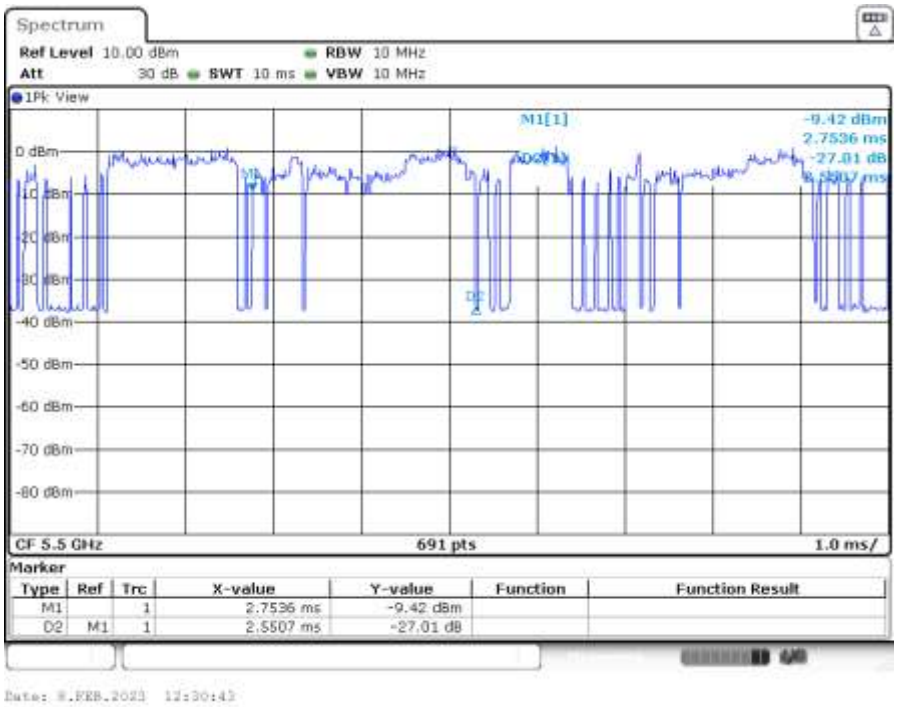
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Transmission Burst Length (Band W56)

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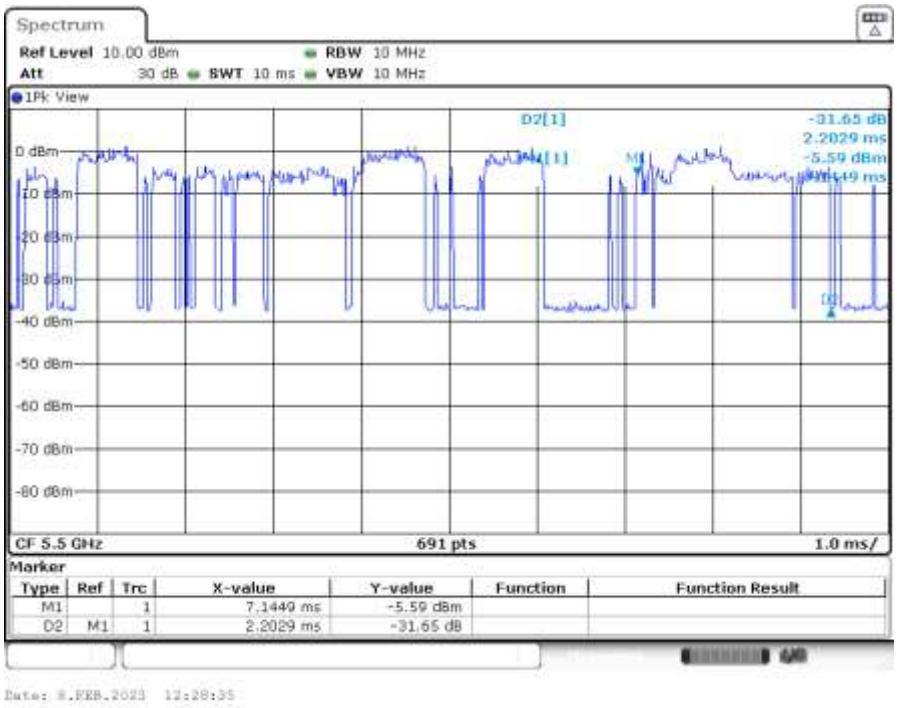


W56, 802.11a, chain 1

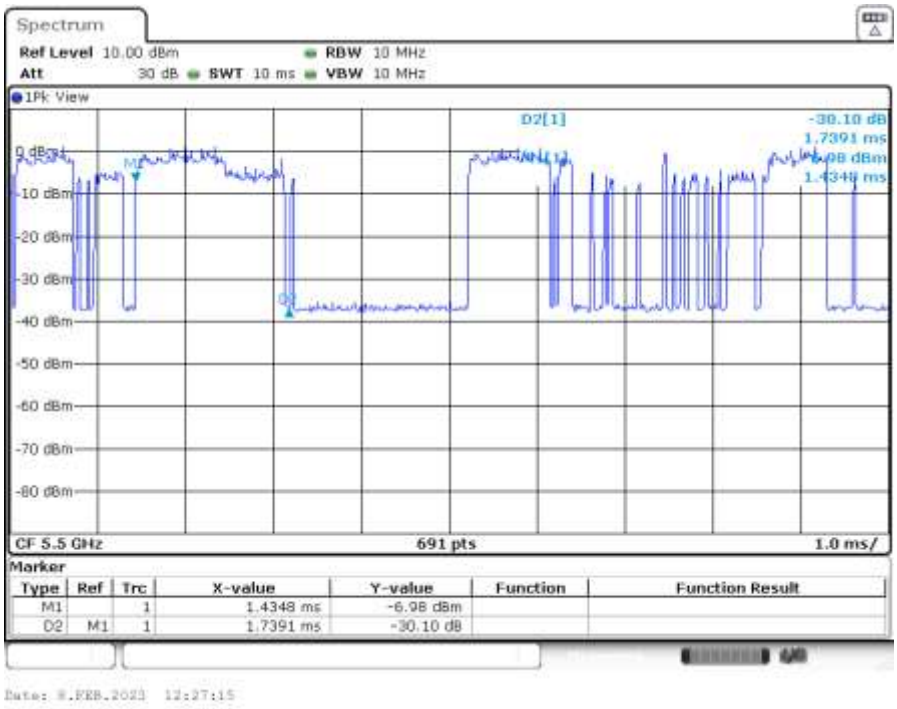


W56, 802.11a, chain 2

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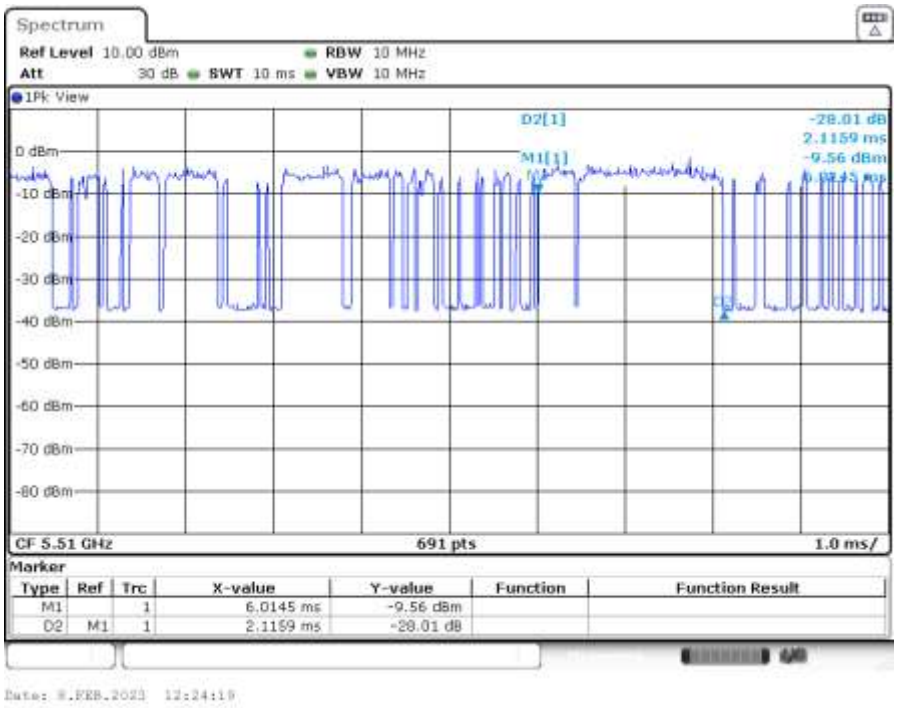


W56, 802.11n, chain 1

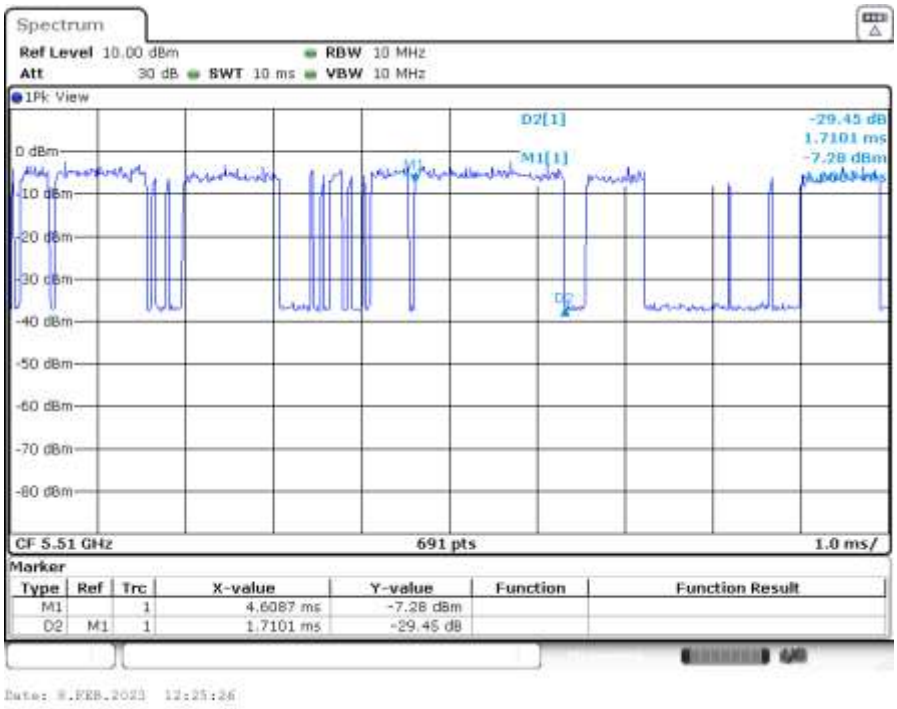


W56, 802.11n, chain 2

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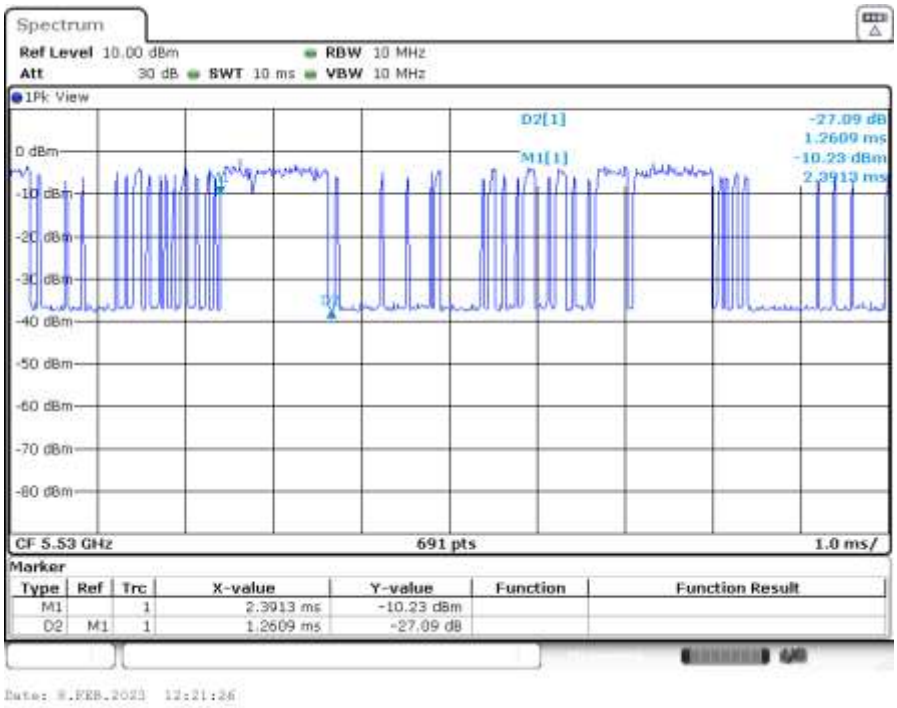


W56, 802.11n(40), chain 1

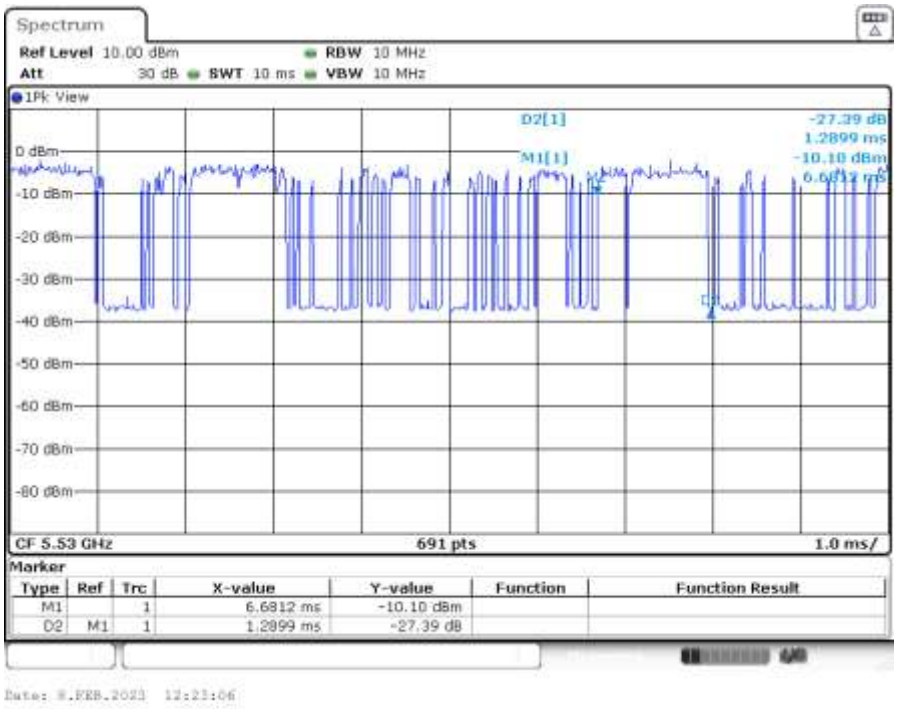


W56, 802.11n(40), chain 2

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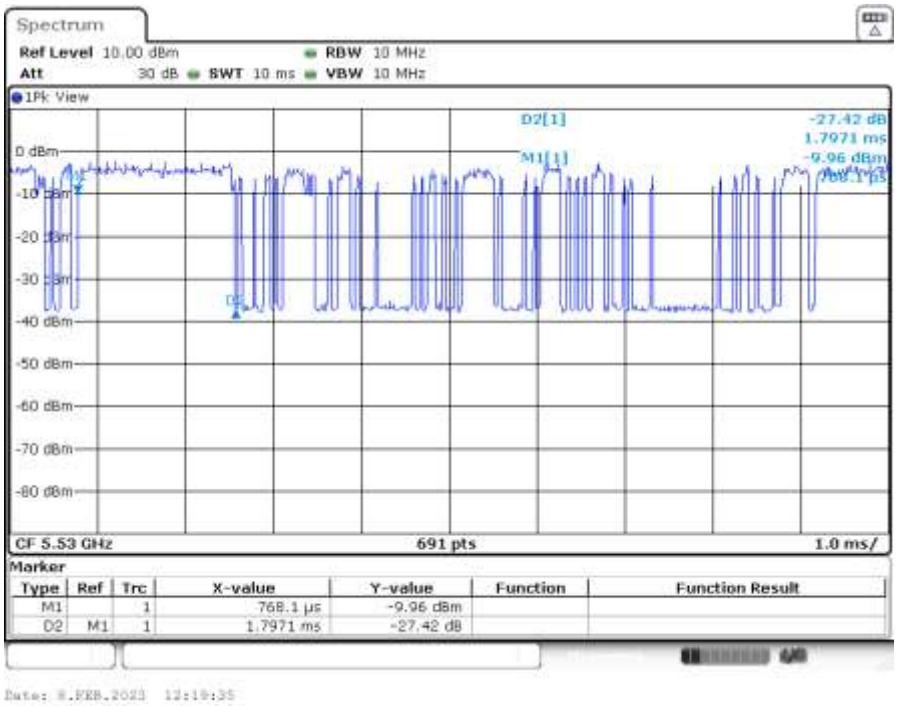


W56, 802.11ac, chain 1

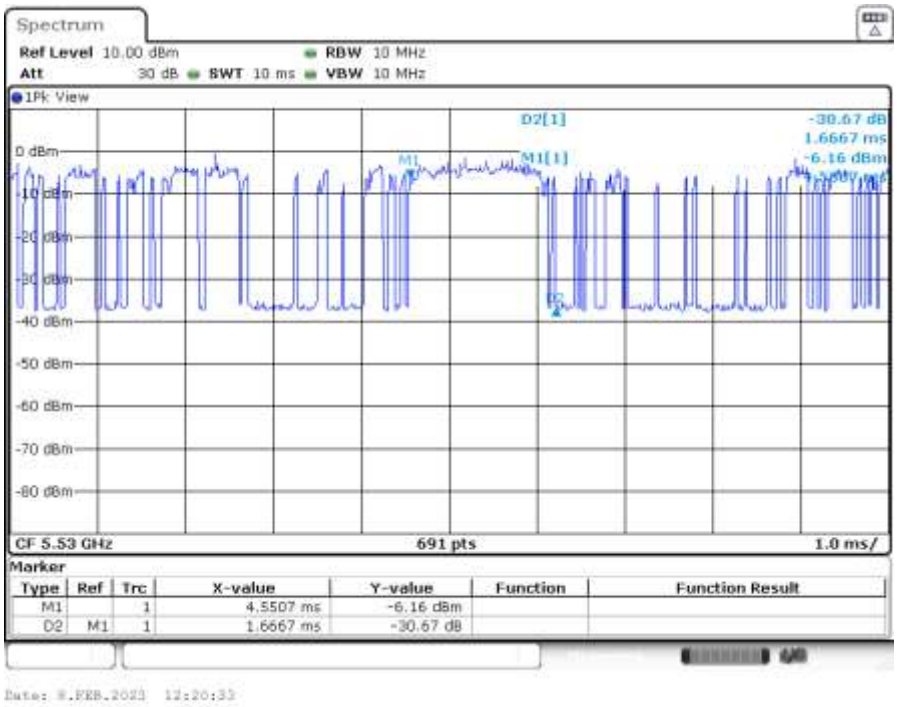


W56, 802.11ac, chain 2

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W56, 802.11ax, chain 1



W56, 802.11ax, chain 2

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End of Report

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