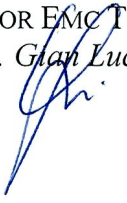




*ELECTROMAGNETIC COMPATIBILITY  
ELECTRICAL SAFETY  
LASER SPECTROSCOPY  
ENVIRONMENTAL PHYSICS*

**G.S.D. S.r.l.**  
Certified in accordance with  
**UNI EN ISO 9001:2008**  
by  
**TÜV Rheinland Italia S.r.l.**  
Certificate N. 39 00 1850509

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                           |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------|
| <b>G.S.D. Srl</b><br><b>PISA - Italy</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Test Report n. 17318FCC</b>                                                            | Rev. 01 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                           |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                           |         |
| <b>Manufacturer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>JAGGER &amp; LEWIS</b>                                                                 |         |
| Address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 165 Avenue de Bretagne<br>Euratechnologies 59000 LILLE<br>FRANCE                          |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                           |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                           |         |
| <b>Test Family Name</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Smart Dog Device</b>                                                                   |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                           |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                           |         |
| <b>Testing Laboratory Name</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>G.S.D. S.r.l.</b>                                                                      |         |
| Address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Via Marmiceto, 8<br>56121 Pisa (PI)<br>Italy                                              |         |
| Tel/Fax                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | +39 050 984254 / +39 050 984262                                                           |         |
| P.IVA/VAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 01343950505                                                                               |         |
| http – e-mail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <a href="http://www.gsd.it">www.gsd.it</a> - <a href="mailto:info@gsd.it">info@gsd.it</a> |         |
| FCC Listed. Registration Number: 424037.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                           |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                           |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                           |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                           |         |
| <b>Location and Date of Issue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Pisa, 2017 July 03                                                                        |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                           |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                           |         |
| <div style="text-align: center;"><b>G.S.D. s.r.l.</b><br/>Via Marmiceto, 8<br/>56121 OSPEDALETTO - PISA<br/>Tel. 050.984254 - Fax 050.984262<br/>P. IVA 01343950505</div> <div style="display: flex; justify-content: space-between;"><div style="text-align: center;"><b>SENIOR EMC TEST MANAGER</b><br/><i>Dr. Gian Luca Genovesi</i><br/></div><div style="text-align: center;"><b>QUALITY MANAGER</b><br/><i>Dr. David Pelliccia</i><br/></div></div> |                                                                                           |         |

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|                                                                                                                             |                           |                          |
| <b><i>Revision details</i></b>                                                                                              |                           |                          |
| <b><i>Date</i></b>                                                                                                          | <b><i>Page No.(s)</i></b> | <b><i>Details</i></b>    |
| 2017 July 03                                                                                                                | 58                        | Rev. 00<br>Initial issue |
| 2017 July 03                                                                                                                | 60                        | Rev. 01<br>Second issue  |
|                                                                                                                             |                           |                          |
|                                                                                                                             |                           |                          |
|                                                                                                                             |                           |                          |
|                                                                                                                             |                           |                          |
|                                                                                                                             |                           |                          |

|                                                           |                                                                 |
|-----------------------------------------------------------|-----------------------------------------------------------------|
| <b>1. MANUFACTURER AND EUT IDENTIFICATION<sup>1</sup></b> |                                                                 |
| <b>Manufacturer</b>                                       | <b>JAGGER &amp; LEWIS.</b>                                      |
| Address                                                   | 165 Avenue de Bretagne<br>Euratechnologies59000 LILLE<br>FRANCE |
|                                                           |                                                                 |
|                                                           |                                                                 |
| <b>Test Family Name</b>                                   | <b>Smart Dog Device</b>                                         |
|                                                           |                                                                 |
| <b>Frequency Range</b>                                    | 2402-2480 MHz (BLE)<br>2412-2462 MHz (WLAN 802.11b/g/n)         |
|                                                           |                                                                 |
| Date of reception                                         | <b>2017 May 20</b>                                              |
|                                                           |                                                                 |
| Sampling                                                  | <b>Laboratory sample for certification</b>                      |
|                                                           |                                                                 |
| Test Item Description                                     | <b>Smart Dog Device</b>                                         |
|                                                           |                                                                 |
| Nominal Input Voltage                                     | <b>Internal Battery - USB connector for charging battery</b>    |
|                                                           |                                                                 |
| <b>FCC ID</b>                                             | <b>2AMKG-JL1PETDEVICE</b>                                       |
|                                                           |                                                                 |

<sup>1</sup>A detailed documentation is preserved in the internal fascicle.

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## 2. REFERENCE STANDARDS

Tests and measurements are performed accordingly to the reference standards given in the table below:

| <i>TEST</i>                                                   | <i>STANDARD</i>                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emissions: Conducted and Radiated – Section 15.207 and 15.209 | <p>FCC Rules and Regulations, Title 47 Part 15 – Sub part C</p> <p>ANSI C63.4 2014 – American National Standard for Methods of Measuring of Radio-Noise Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz – 40 GHz</p> <p>ANSI C63.10 2013 – American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices</p> |
| §15.249 Operation within the band 2400.00 – 2483.00 MHz:      | <p>FCC Rules and Regulations, Title 47 Part 15 – Sub part C</p> <p>ANSI C63.4 2014 – American National Standard for Methods of Measuring of Radio-Noise Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz – 40 GHz</p> <p>ANSI C63.10 2013 – American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices</p> |
| Antenna Requirement: §15.203                                  | FCC Rules and Regulations, Title 47 Part 15 – Sub part C                                                                                                                                                                                                                                                                                                                           |

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**3. RESULT, CONDITION, MEASUREMENT UNCERTAINTY**Summary of Test Results

| <i>TEST</i>                                                                                                                | <i>RESULT</i> |
|----------------------------------------------------------------------------------------------------------------------------|---------------|
| <i>Emissions: radiated<br/>Section 15.209</i>                                                                              | <i>Pass</i>   |
| <i>Field Strength Emissions – Emissions outside<br/>the bands - Bandwidth<br/>Section 15.249 (a)(c)(d)(e) – 15.215 (c)</i> | <i>Pass</i>   |

Measurement uncertainty

| <i>TEST</i>                                               | <i>EXPANDED UNCERTAINTY</i> |
|-----------------------------------------------------------|-----------------------------|
| Conducted Emission – 50Ω/50μH (150 kHz - 30 MHz)          | ± 3.5 dB                    |
| Radiated Emission – (Semianechoic Room) (30 MHz - 18 GHz) | ± 4.7 dB                    |

Climatic Conditions

| <i>PARAMETER</i>  | <i>VALUE</i> |
|-------------------|--------------|
| Temperature       | (293 ± 3) K  |
| Relative humidity | (50 ± 5) %   |

Extensions

The results refer only to the sampled EUT and under the specified conditions.

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#### 4. RADIATED EMISSIONS - FIELD STRENGTH EMISSIONS – EMISSIONS RADIATED OUTSIDE THE BAND – OCCUPIED BANDWIDTH

In the following table you can find the limits established by the reference standard:

§ 15.209 Limits

| FREQUENCY RANGE<br>(MHz) | <i>Field Strenght</i><br><i>QUASI-PEAK LIMITS</i><br>[dB (μV/m)] |
|--------------------------|------------------------------------------------------------------|
| 0.009 ÷ 0.490            | 48.15 ÷ 13.8 @ 300m                                              |
| 0.490 ÷ 1.705            | 33.8 ÷ 23 @ 30m                                                  |
| 1.705 ÷ 30               | 29.5 @ 30m                                                       |
| 30 ÷ 88                  | 40                                                               |
| 88 ÷ 216                 | 43,5                                                             |
| 216 ÷ 960                | 46                                                               |
| Above 960                | 54                                                               |

The Field strength of emissions form intentional radiators operated in the 2400.00 – 2483.00 MHz band shall comply with the following:

| Fundamental Frequency<br>(MHz) | Field Strenght of Fundamental<br>(mV/m) | Field Strenght of harmonics<br>(μV/m) |
|--------------------------------|-----------------------------------------|---------------------------------------|
| 2400 – 2483.5                  | 50                                      | 500                                   |

Field strength are specified at a distance of 3 meters

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

As shown in §15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation

#### Test Equipment

| EQUIPMENT        | MANUFACTURER     | MODEL    | CAL. DUE |
|------------------|------------------|----------|----------|
| MXE EMI Receiver | Agilent/Keysight | N9038A   | 01/2018  |
| Anechoic Chamber | Comtest          | CSA01    | 01/2018  |
| Bilog Antenna    | Schaffner        | CBL6112B | 01/2018  |
| Horn Antenna     | EMCO             | 3115     | 01/2018  |
| Horn Antenna     | Alpha Industries | 61932500 | 01/2018  |
| Controllor       | Deisel           | HD100    | 01/2018  |
| Turn Table       | Deisel           | MA240    | 01/2018  |
| LISN             | GSD              | NTW06    | 01/2018  |

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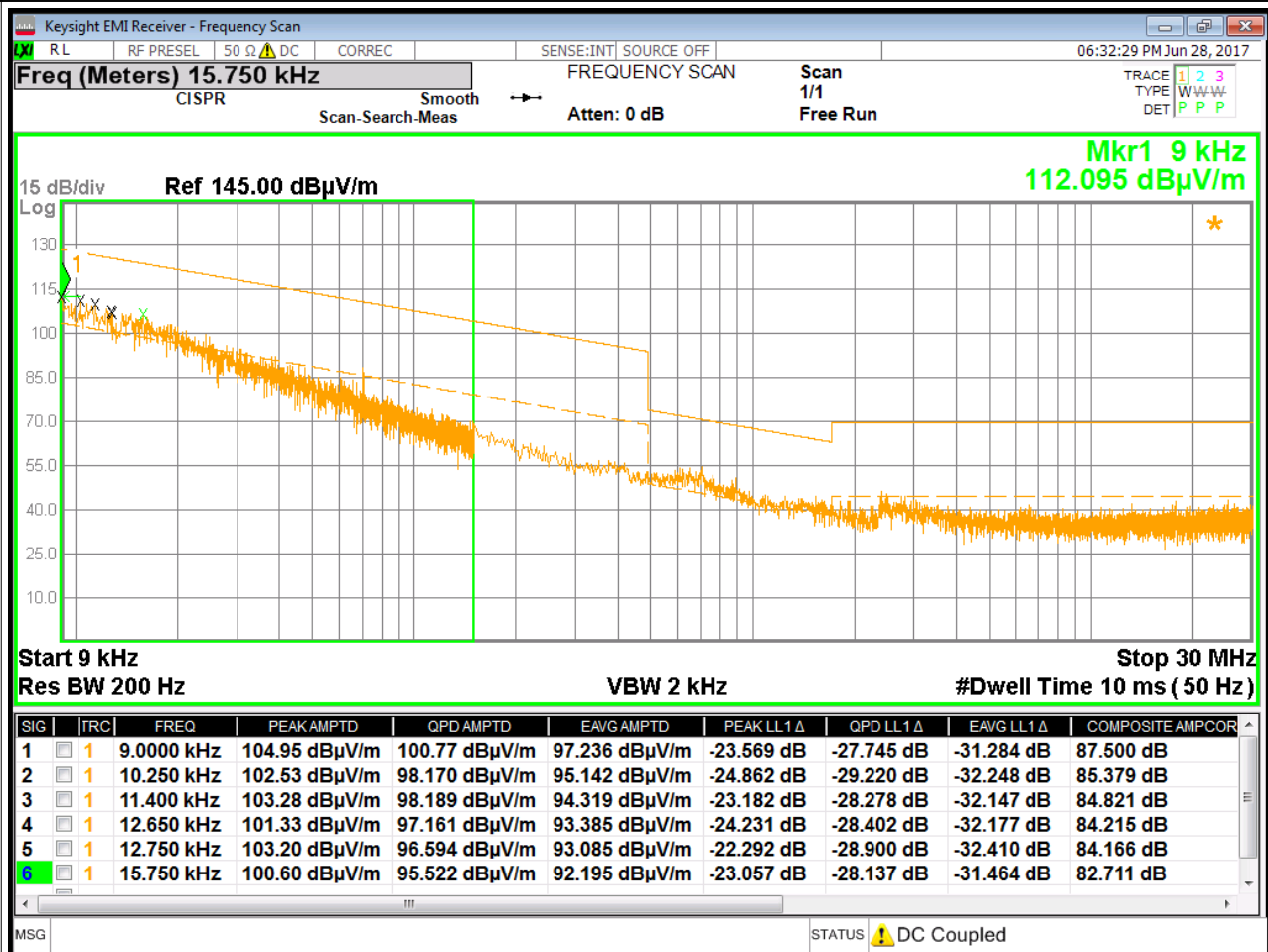
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <u>Test procedure:</u> RE22R02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <u>Notes</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>Azimuth position EUT-Antenna corresponding to 0° identifies the rotating table orientation (TT) in which the instrument to be tested shows the front part turned towards the antenna. Positive grades individuate clockwise rotations of TT when this one is observed from the top. For negative degrees, TT rotation is counter-clockwise.</p> <p>Antenna height respect to the mass plane is conventionally individuated with: MA=XXX where XXX indicates the height (always positive and greater than 100) expressed in cm.</p> <p>Antenna horizontal polarisation is indicated by POL=H.</p> <p>Antenna vertical polarisation is indicated by POL=V.</p> <p>EUT was tested in the three orthogonal planes.</p> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <u>Results and conclusions</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>In all the operative conditions, equipment complied with the standard limits. Graphics in following figures show the most significant registrations of the performed measurements.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>As indicated in §15.215 of Part 15C, unwanted emissions outside the frequency band are attenuated to the emission limit §15.209 and 20 dB BW is inside the 2400-2483.5 permitted band of operation.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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#### 4.1. BLUETOOTH



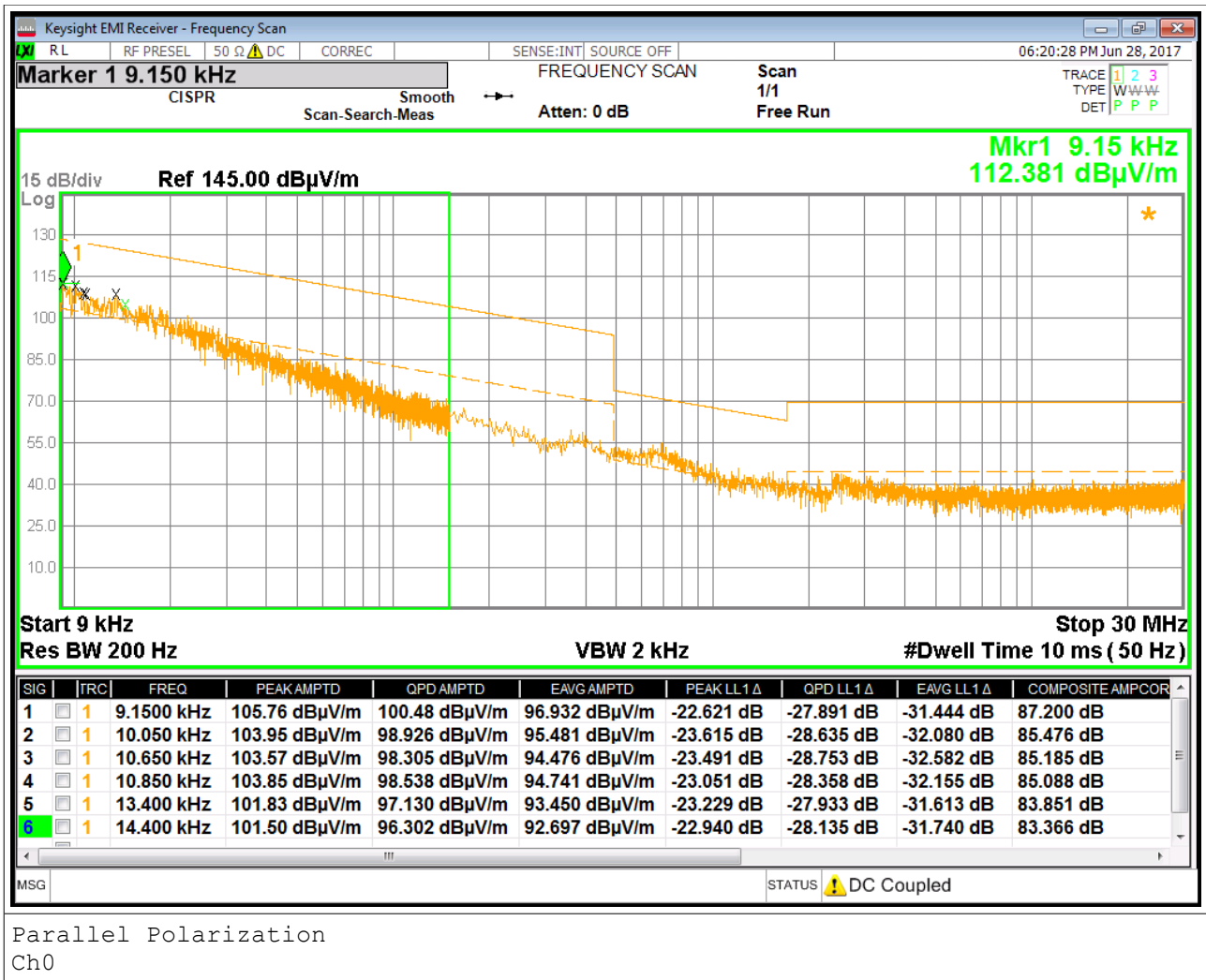
Orthogonal Polarization  
Ch0



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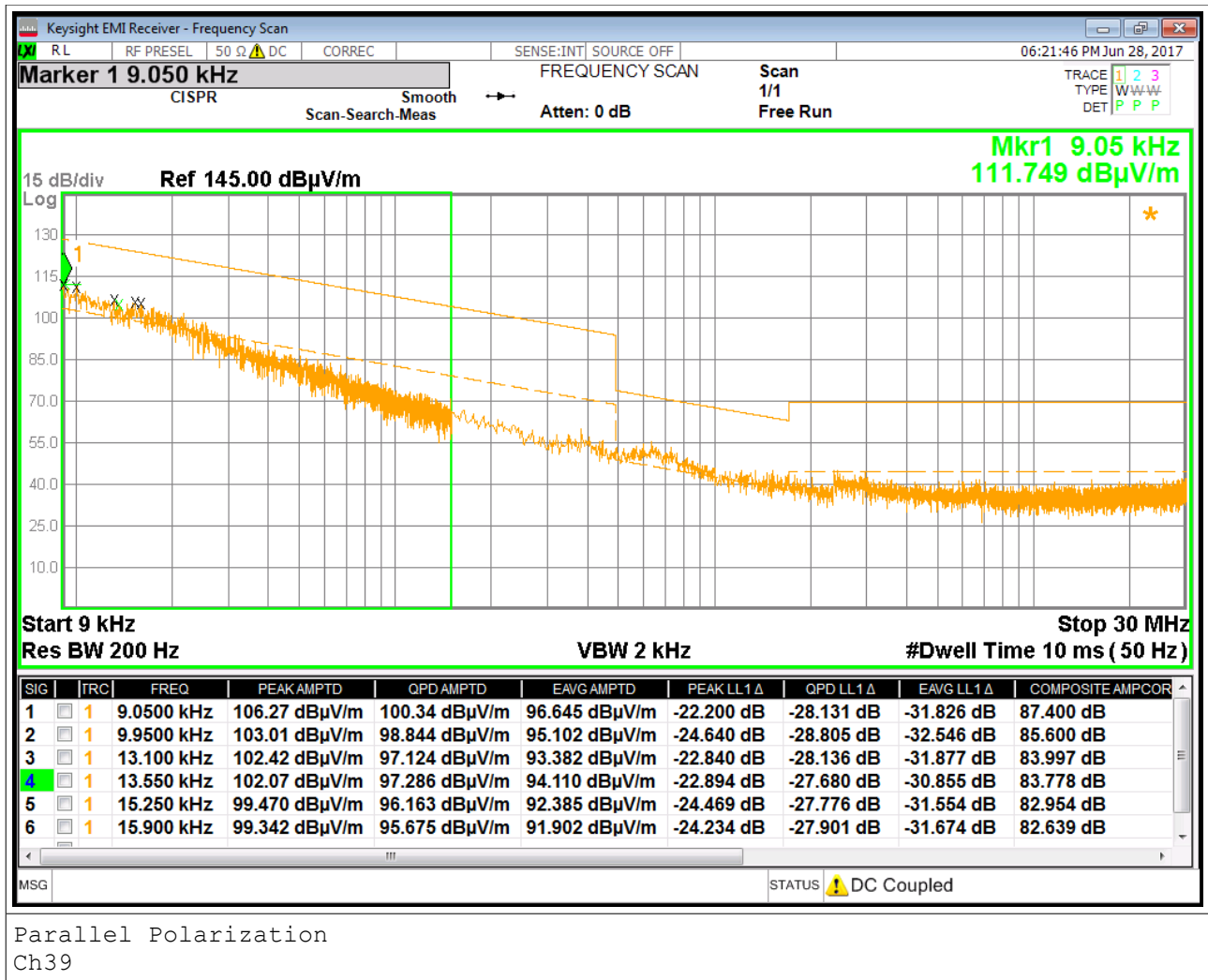
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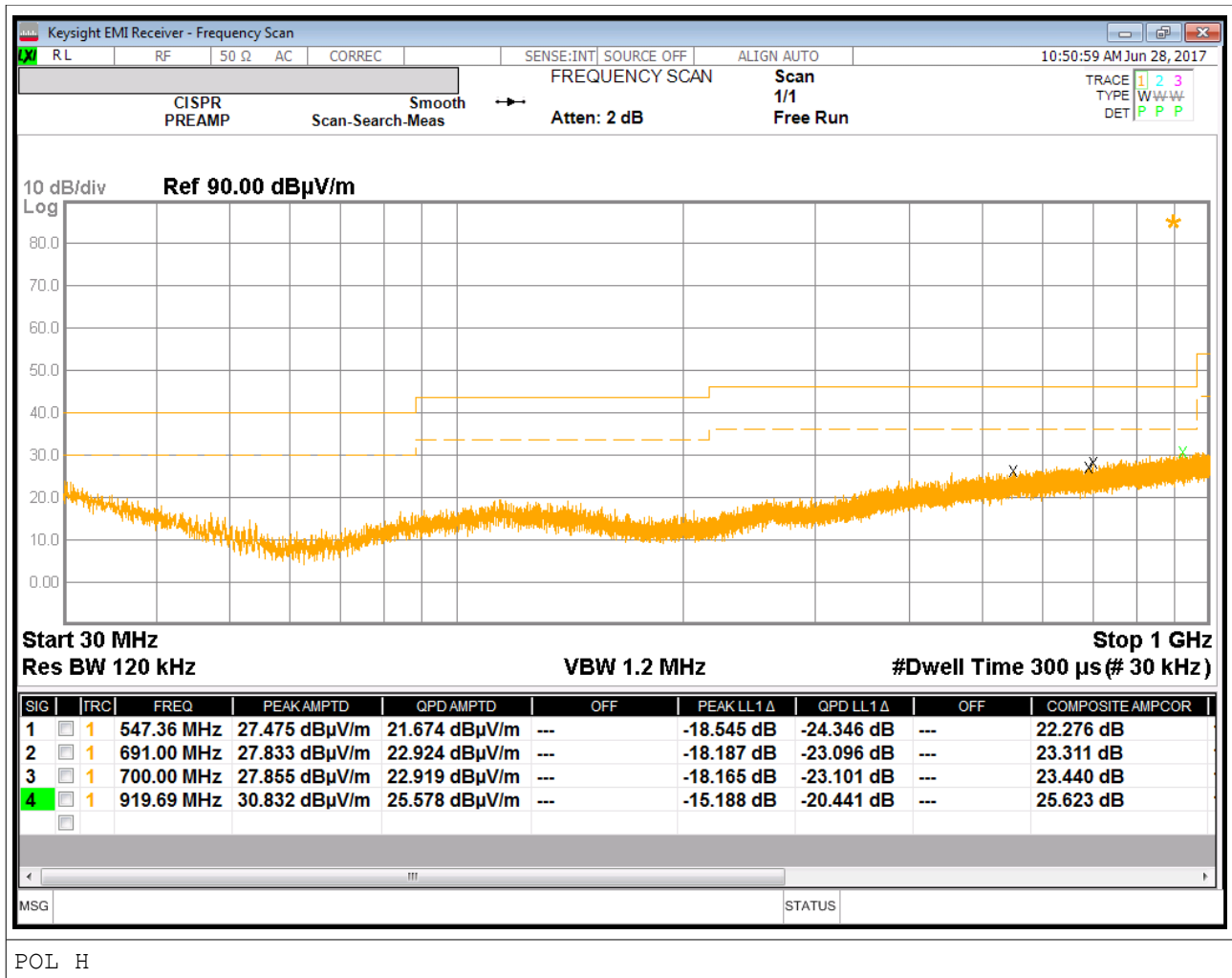
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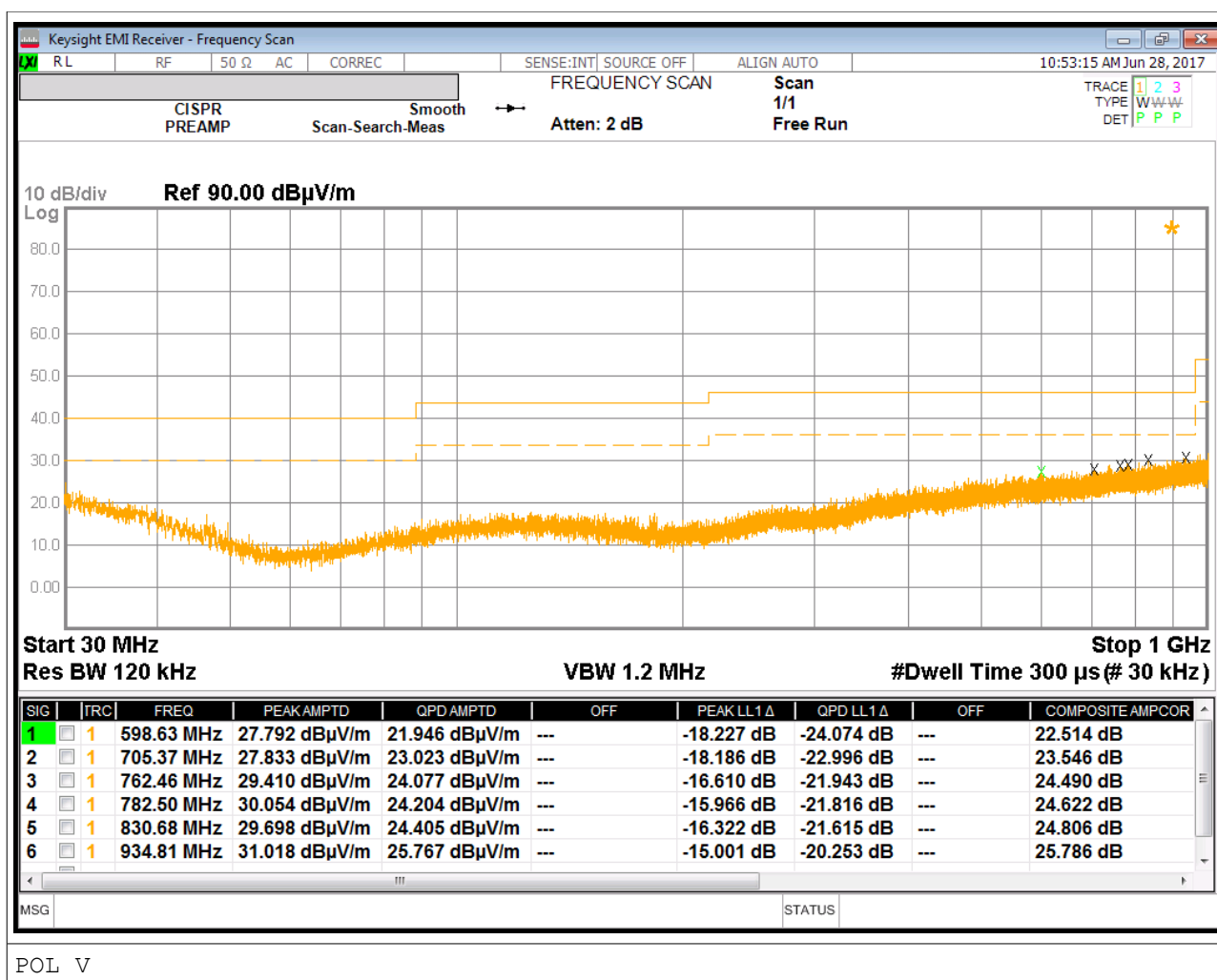


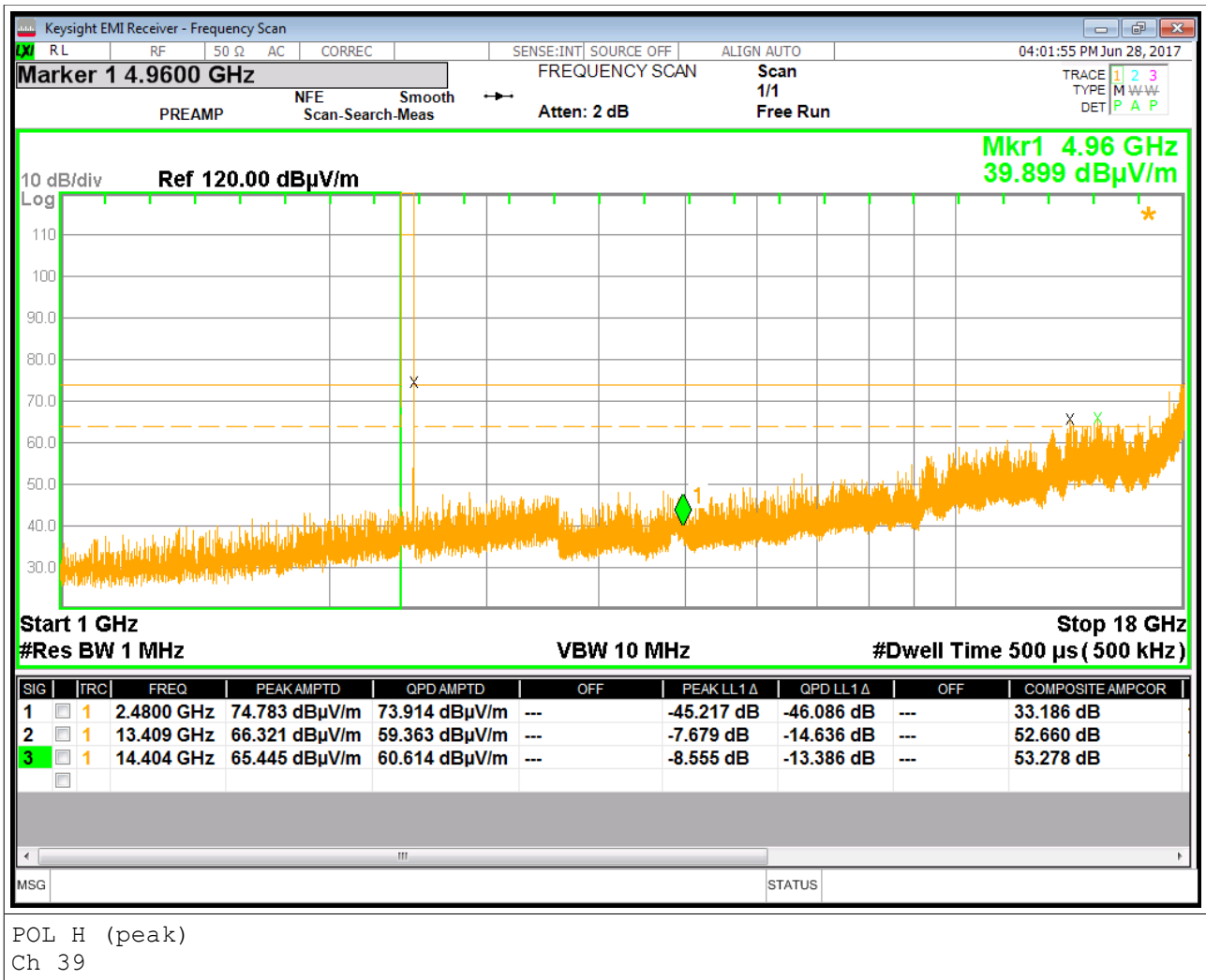
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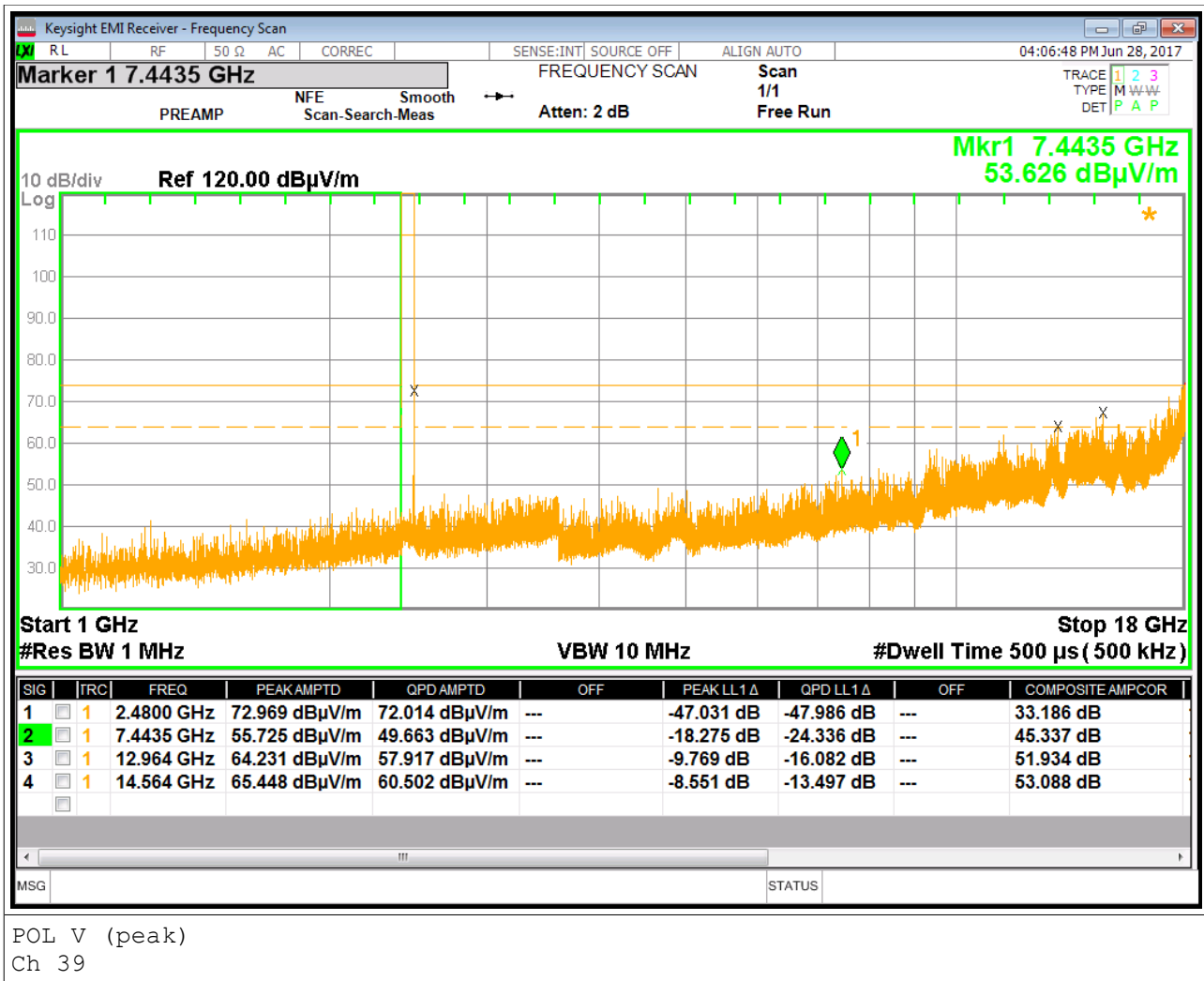




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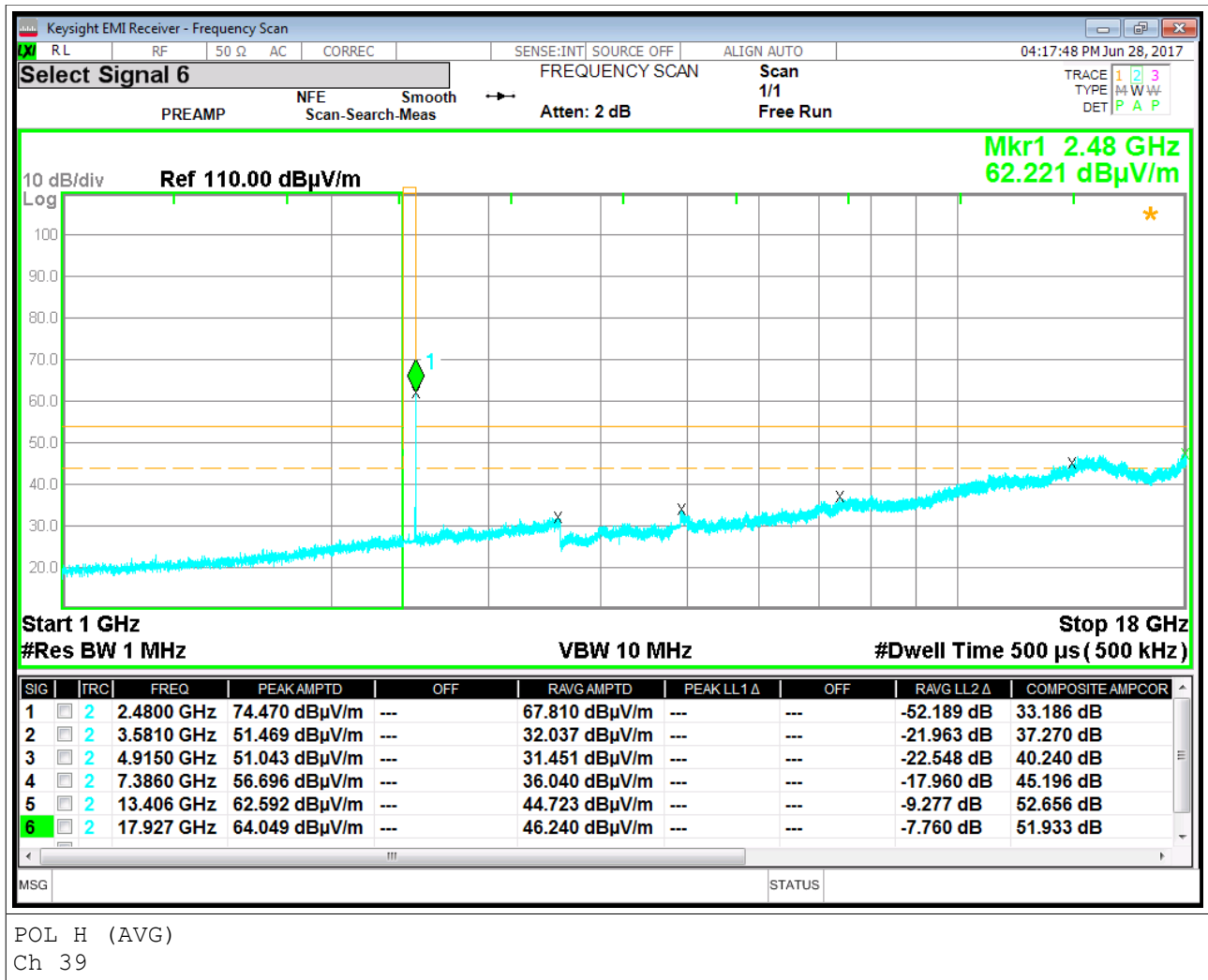
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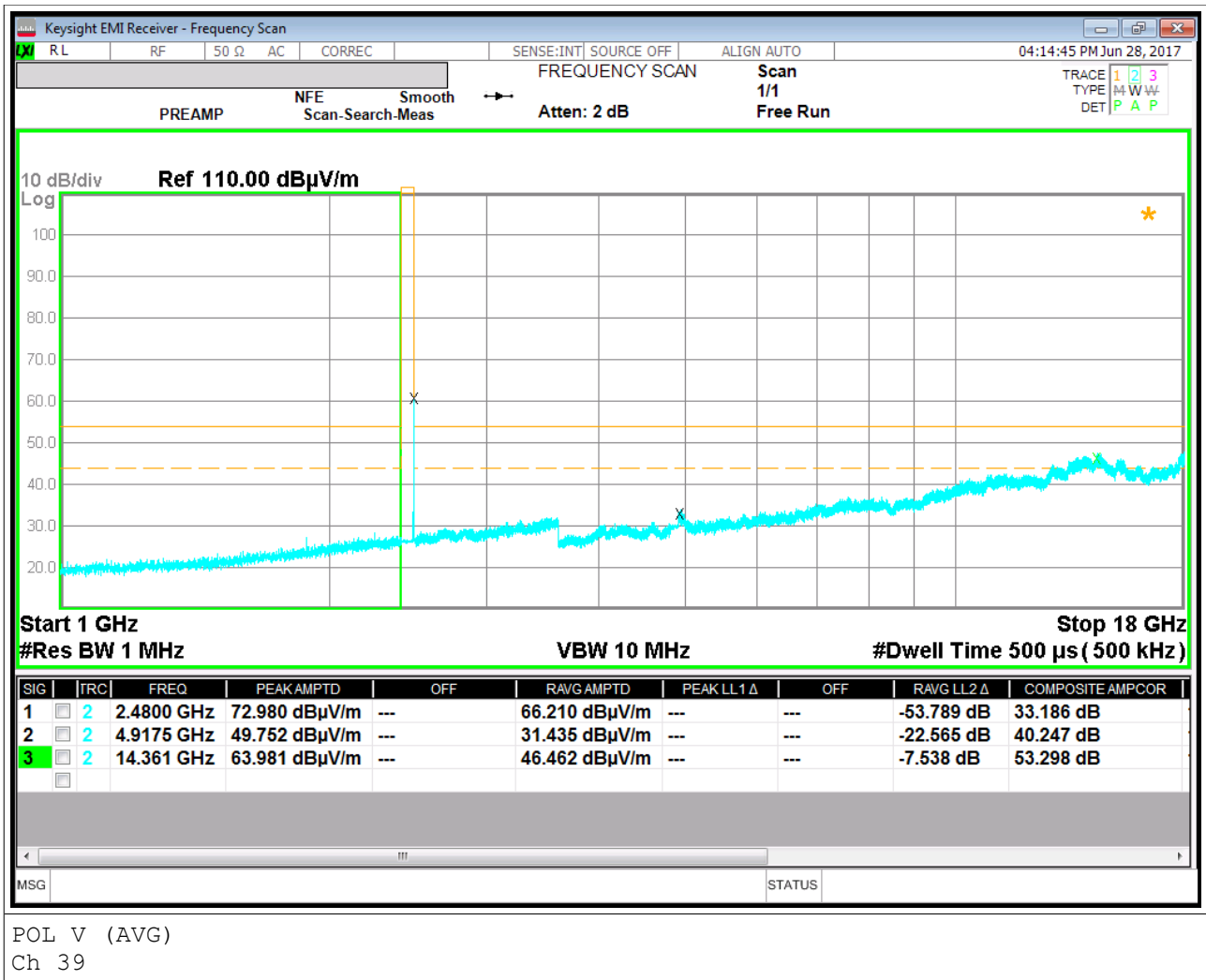
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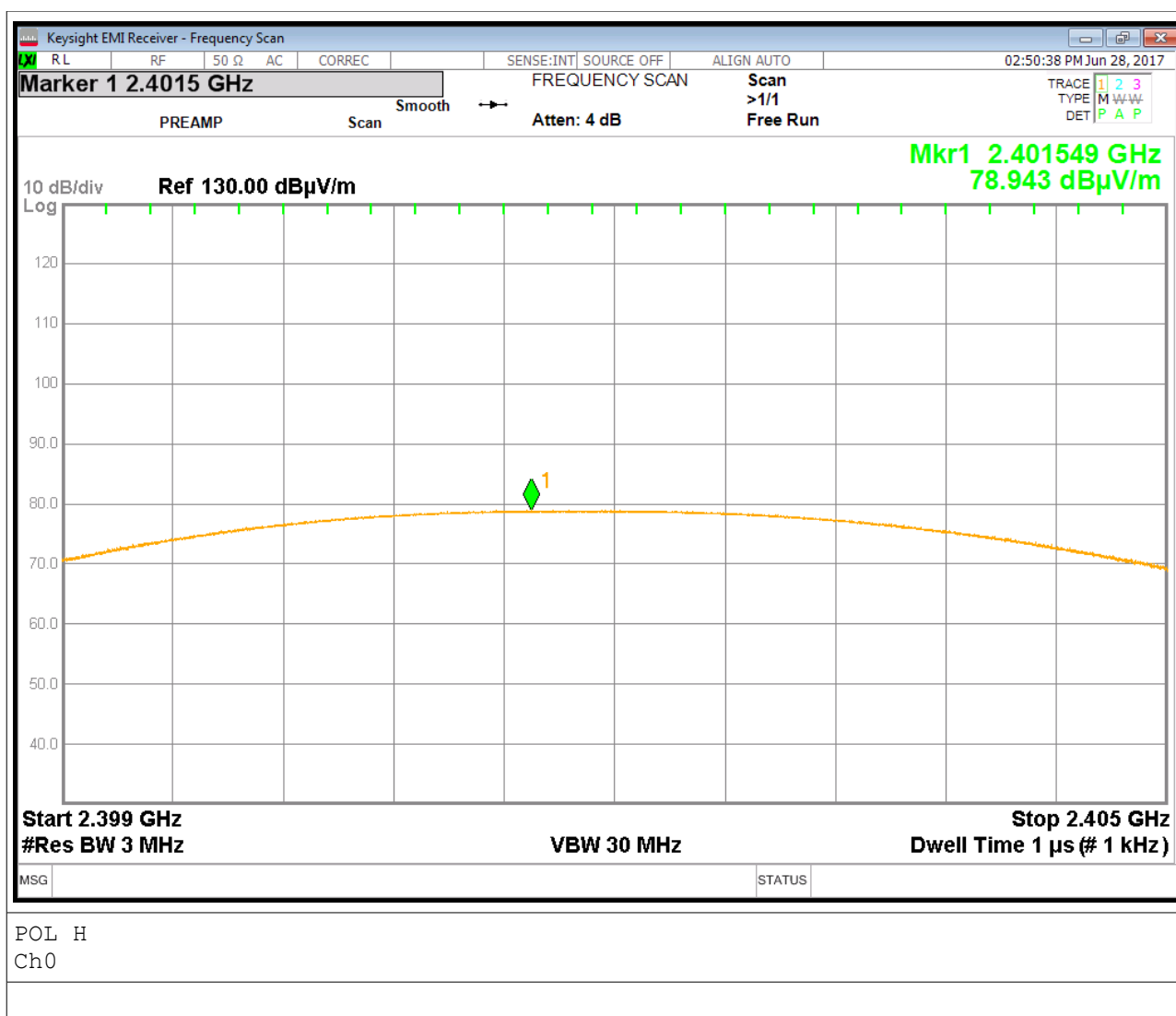
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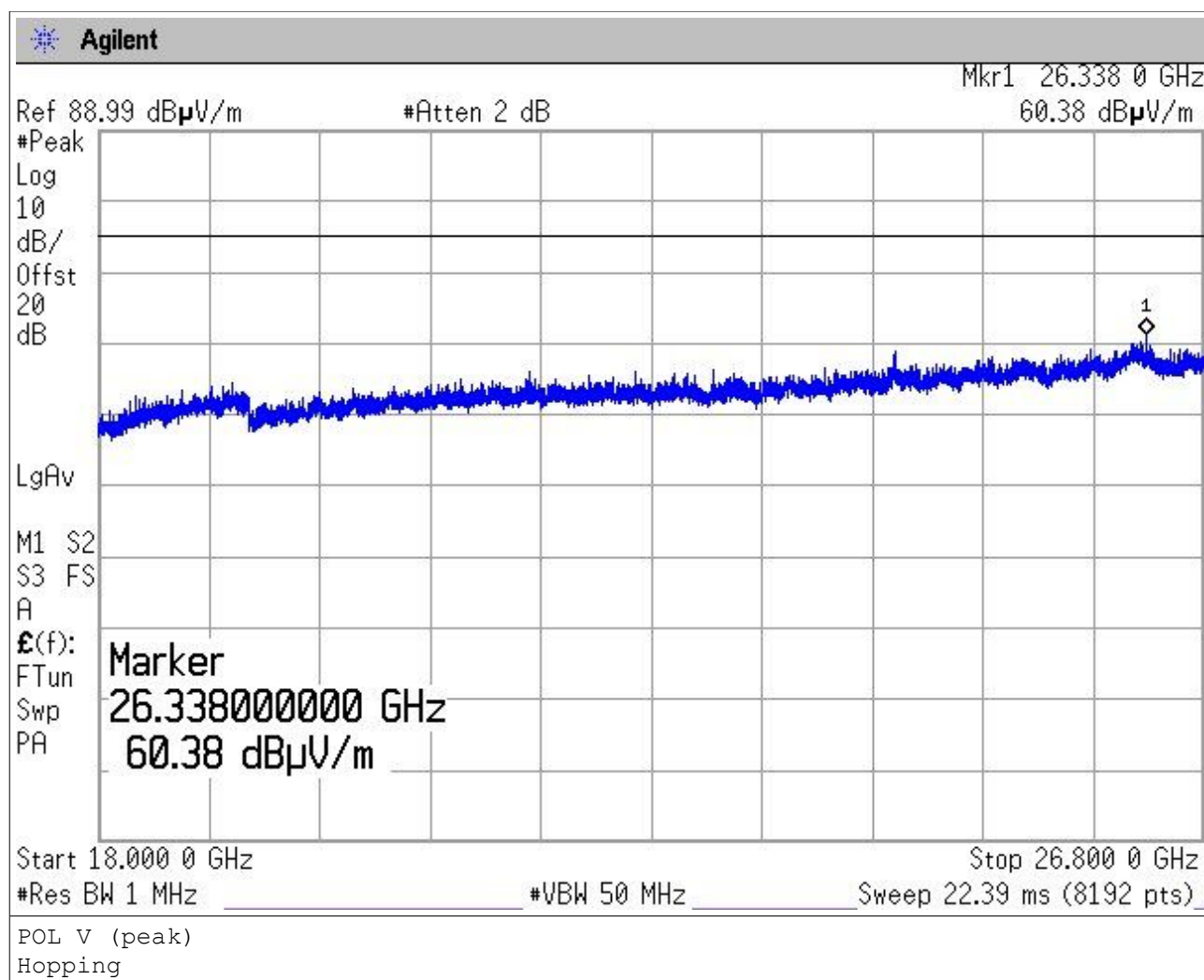
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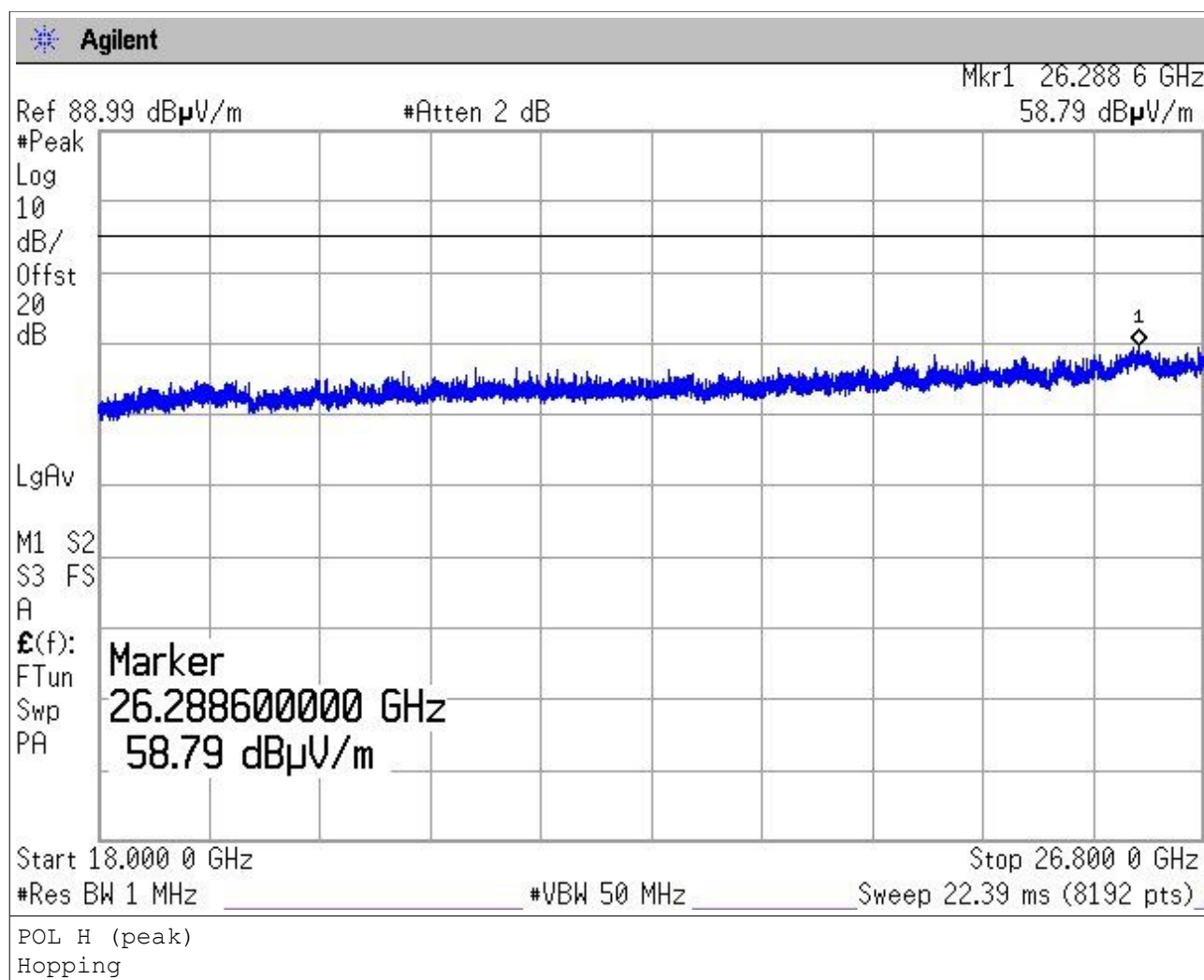




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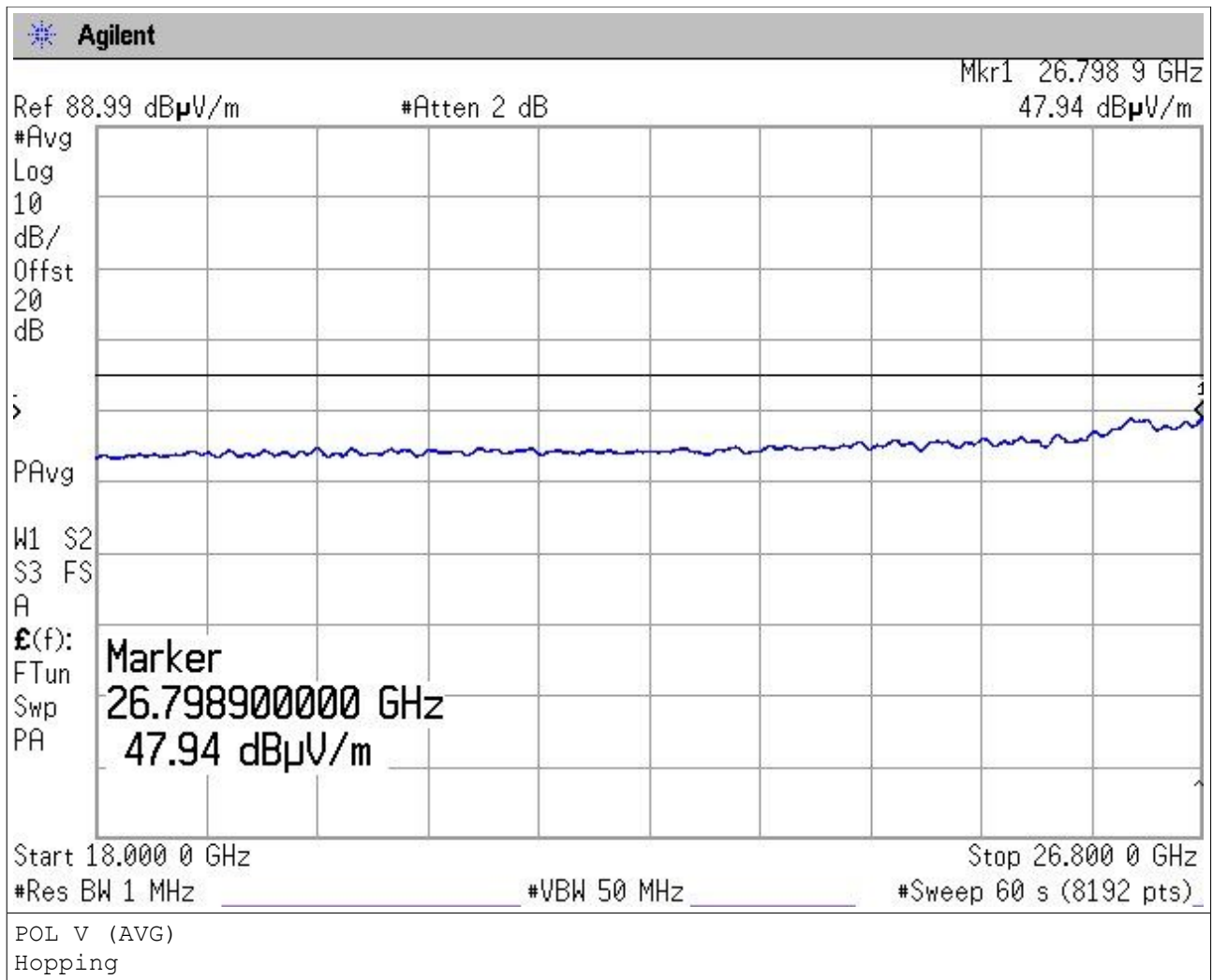
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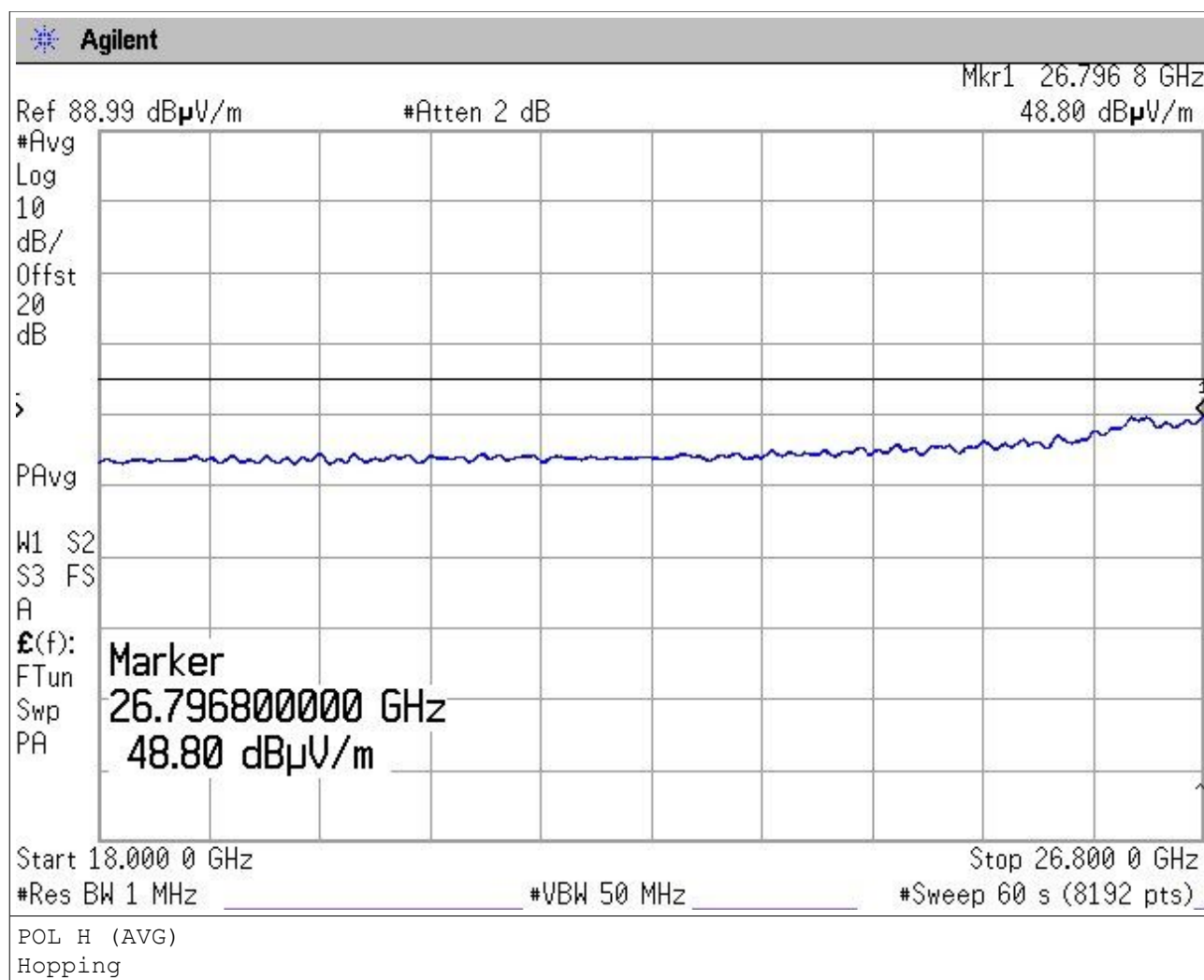
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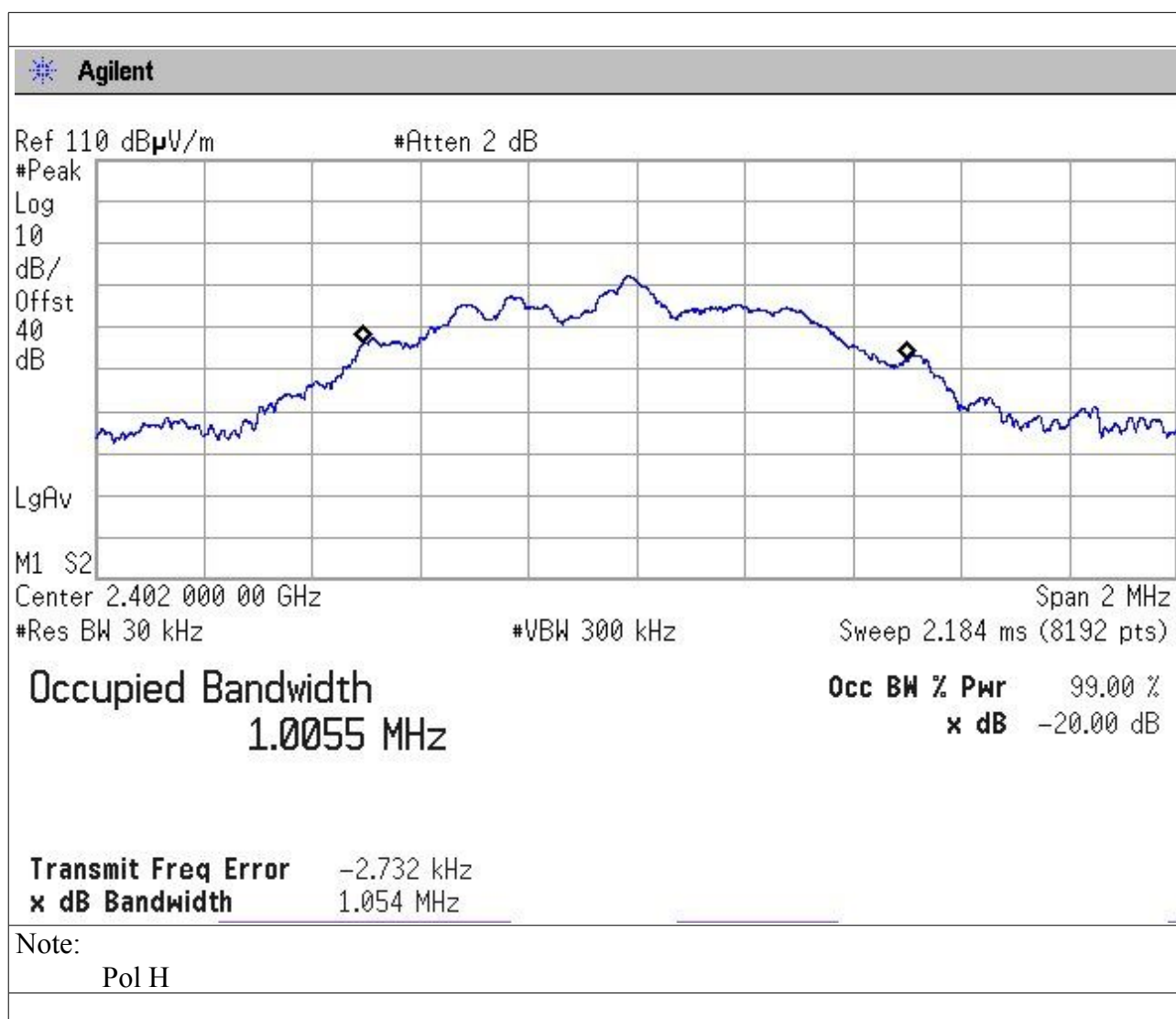
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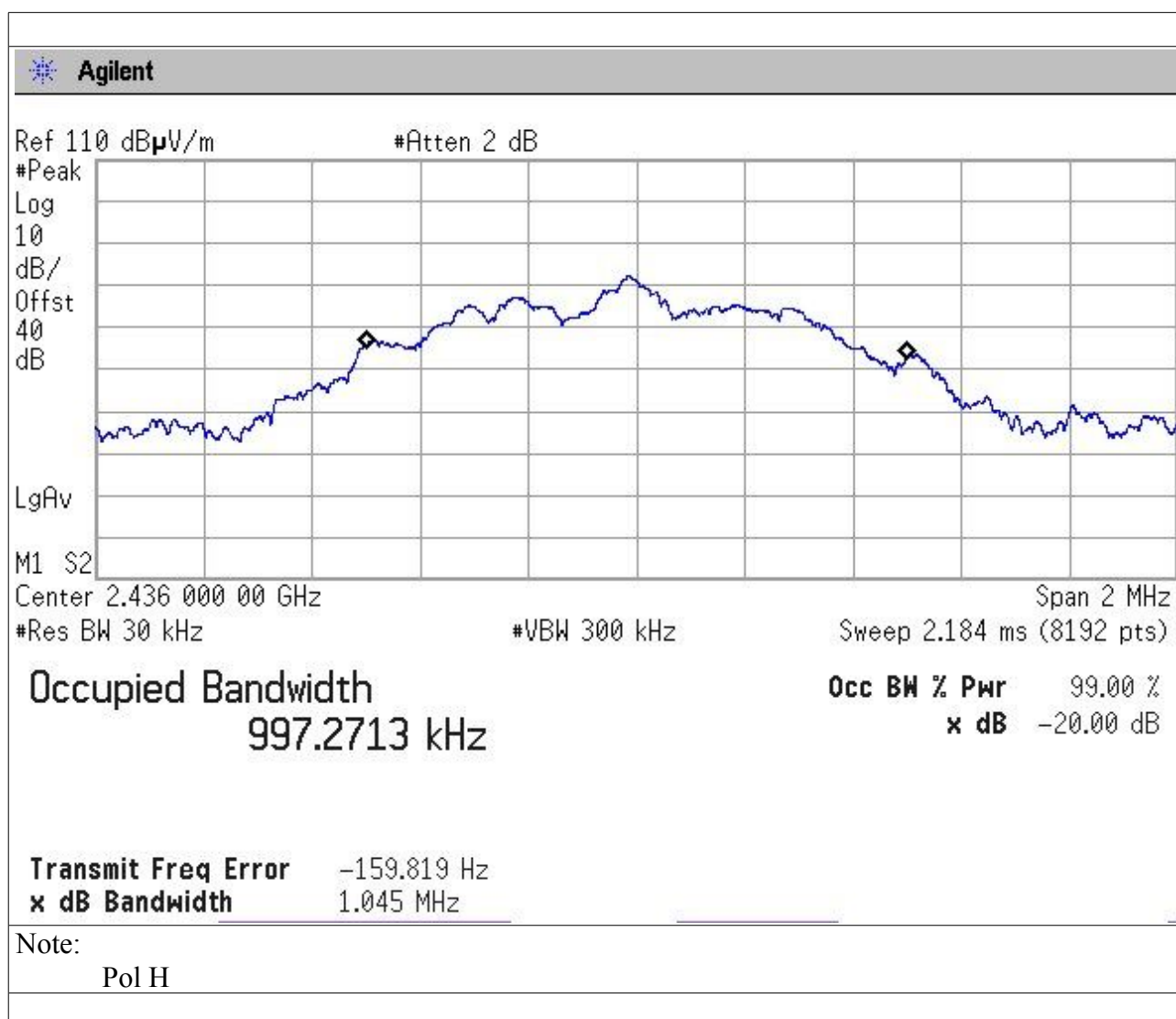
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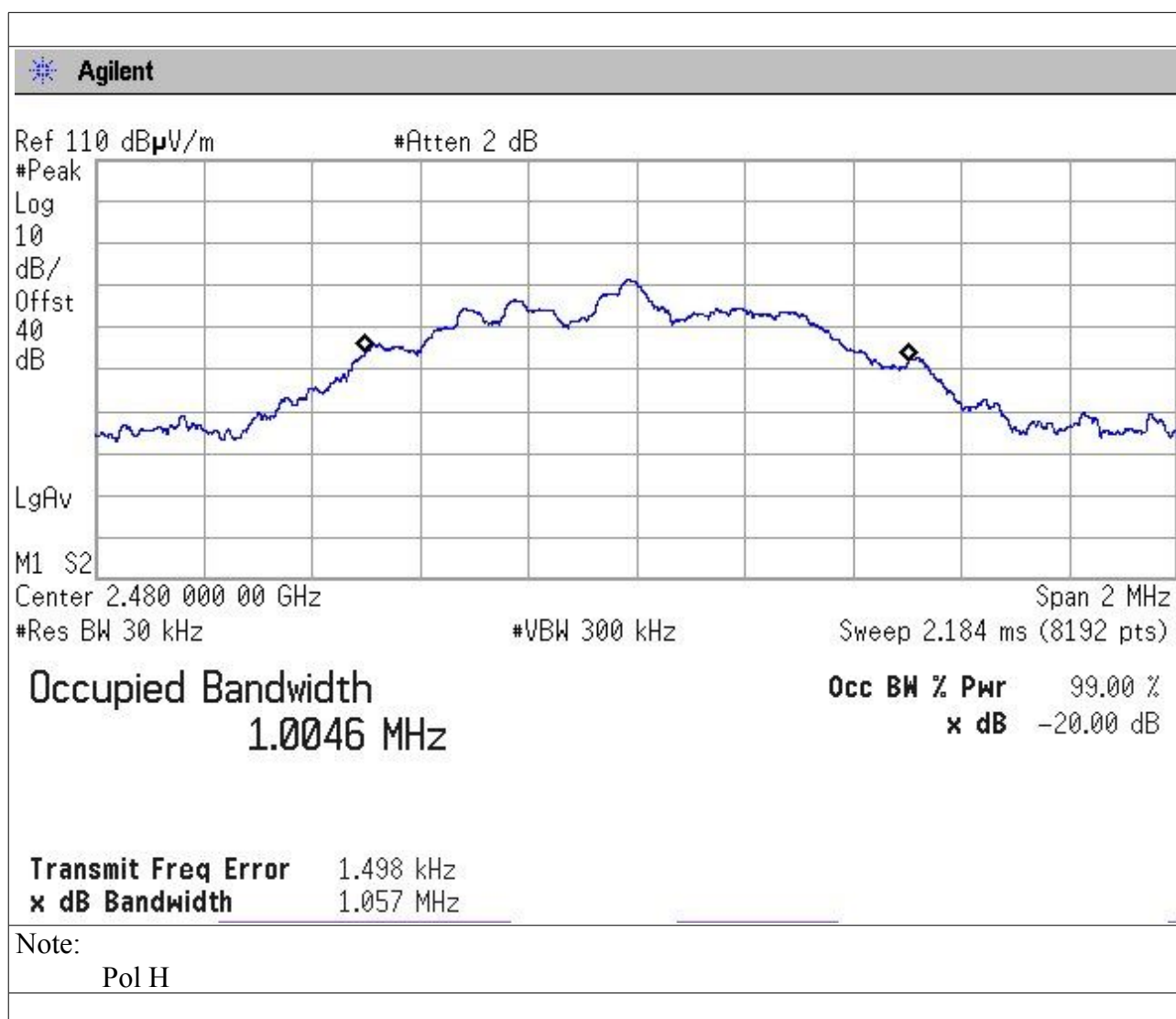
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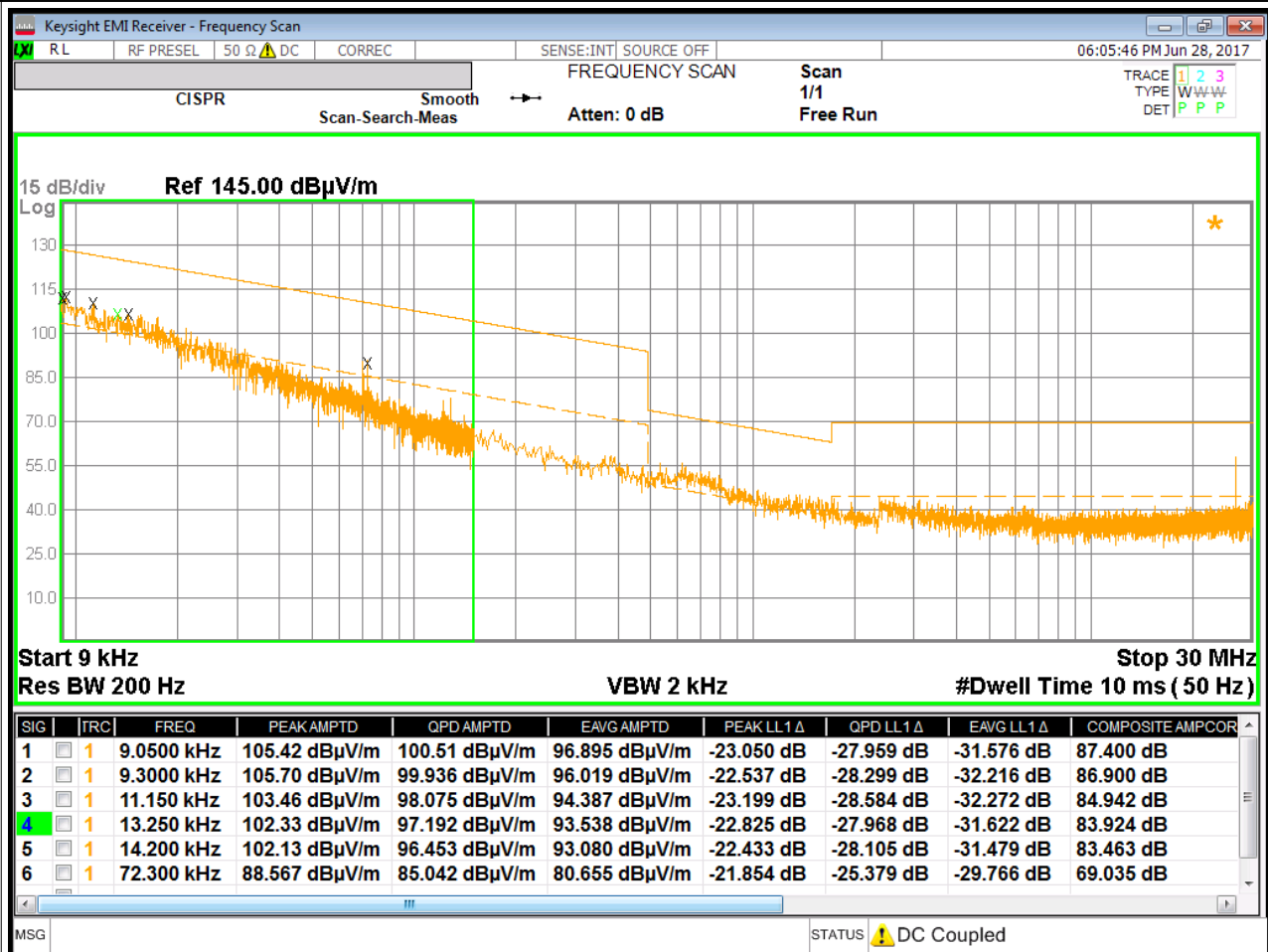


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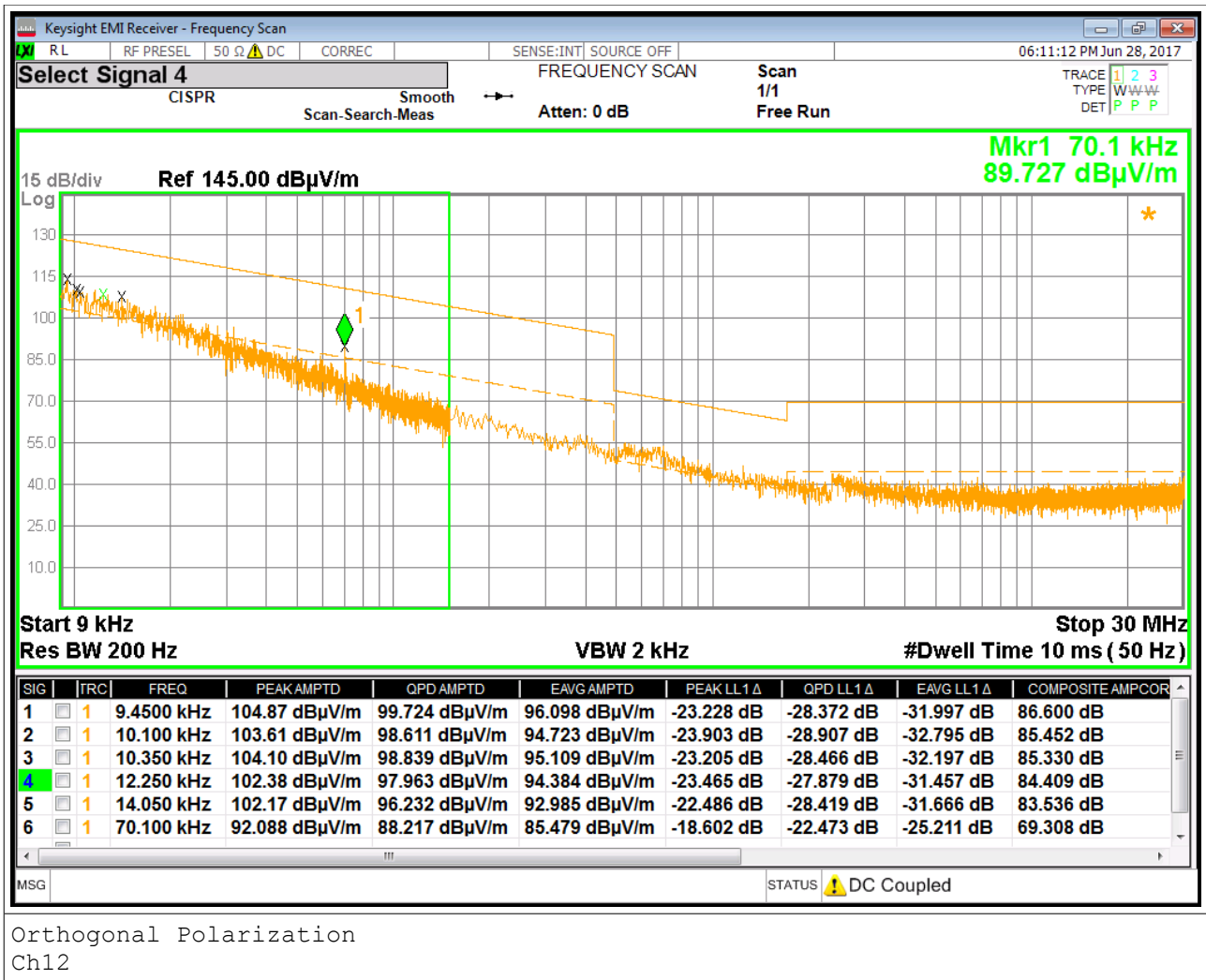
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## 4.2. Wi-Fi



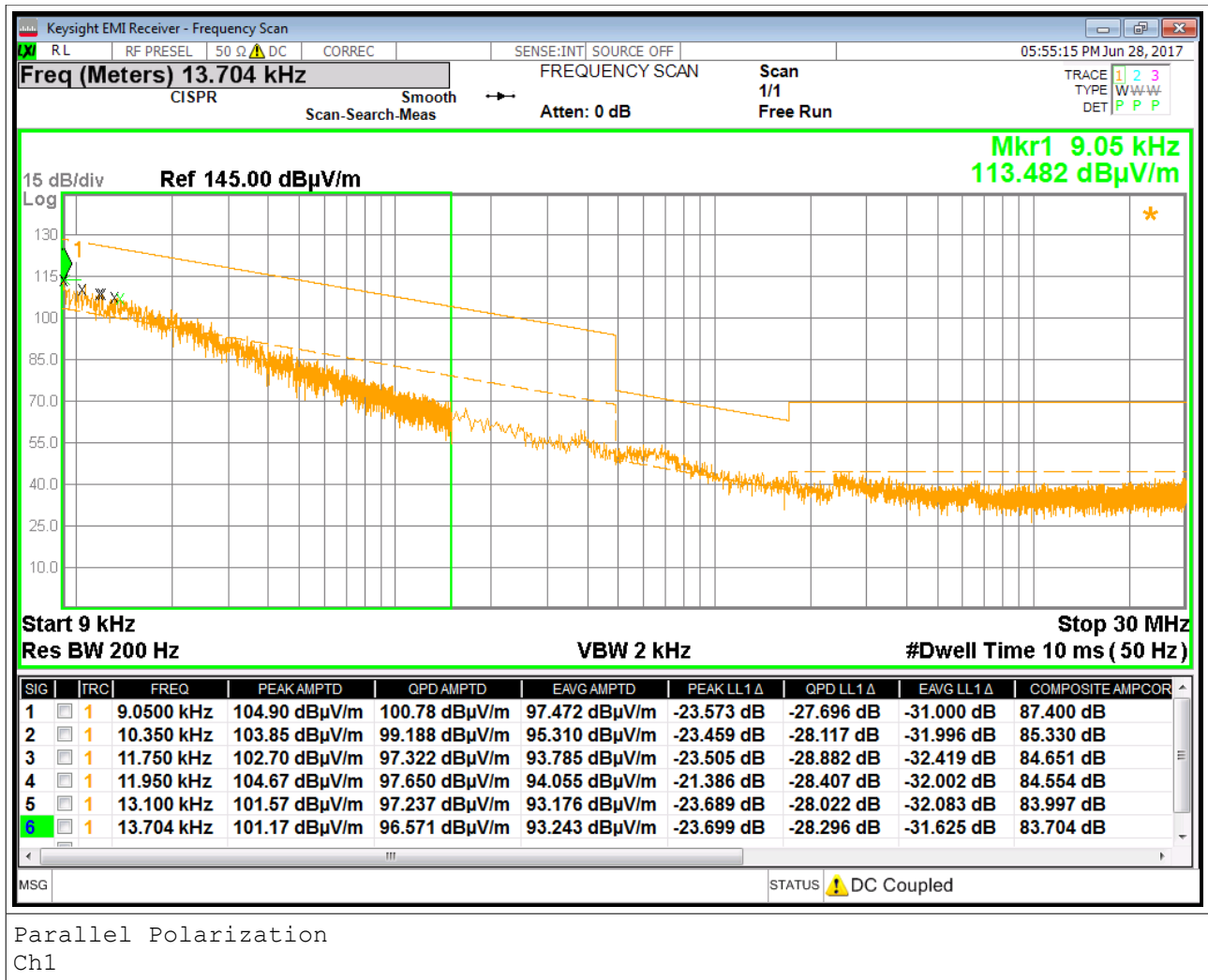
Orthogonal Polarization  
Ch1



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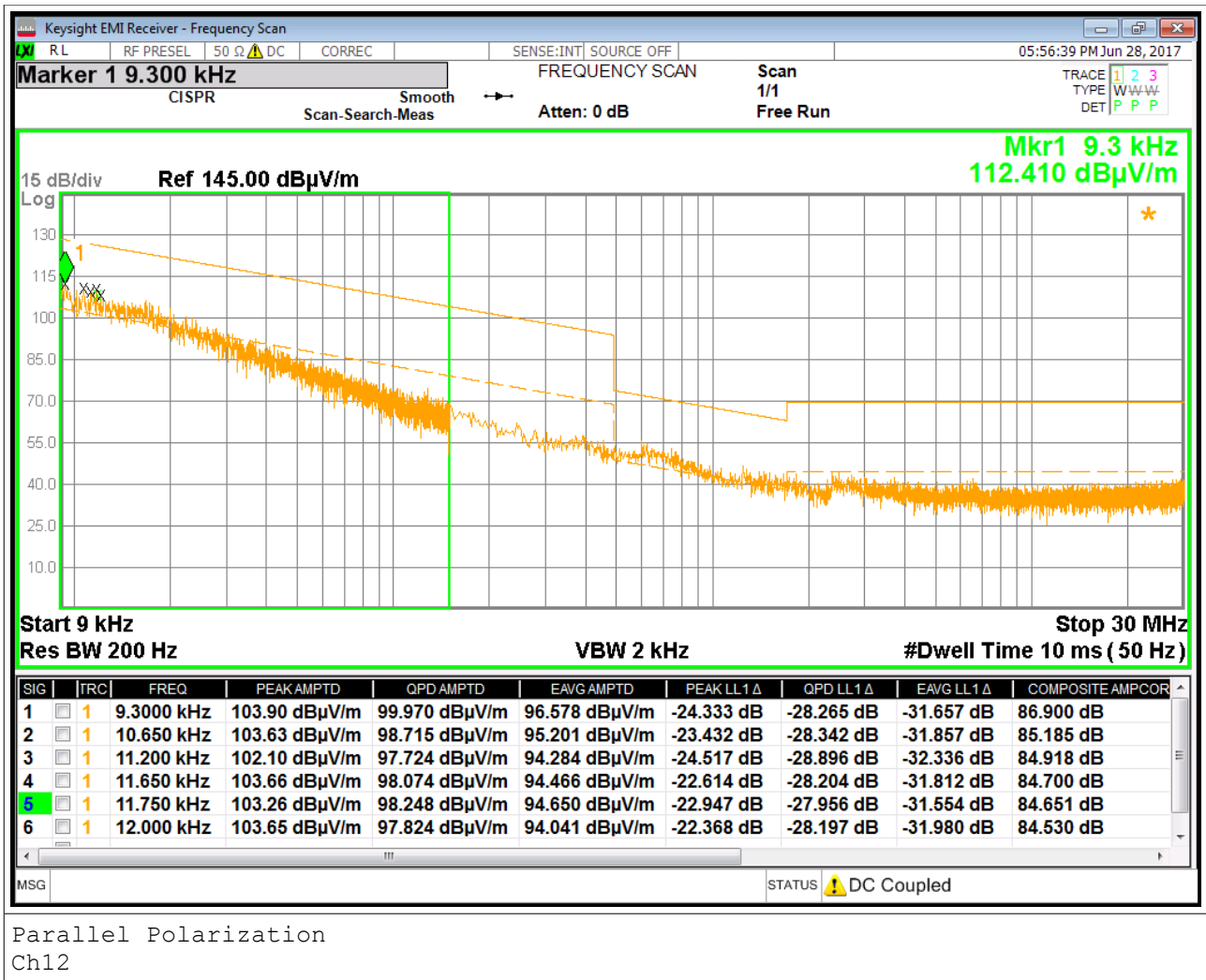
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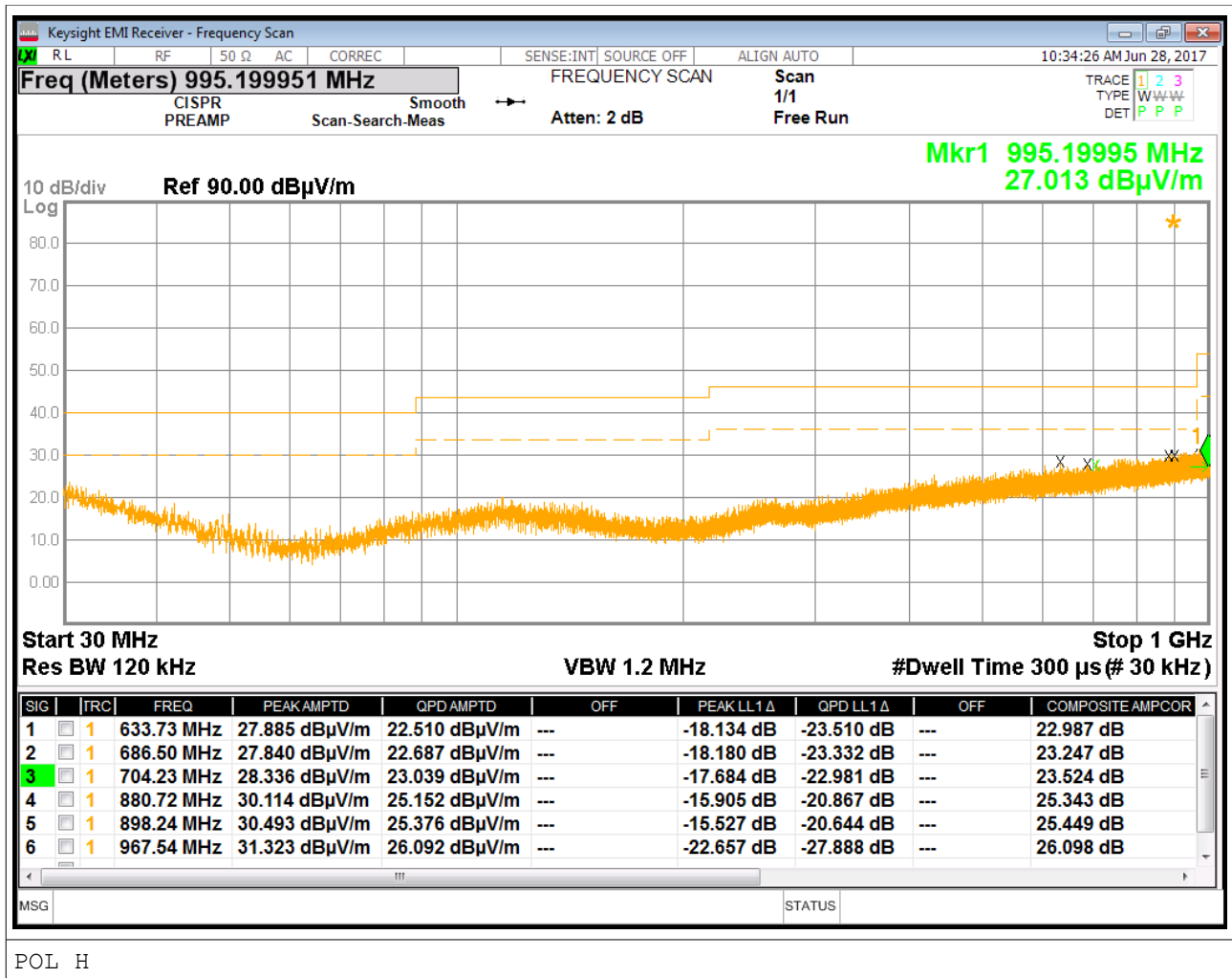
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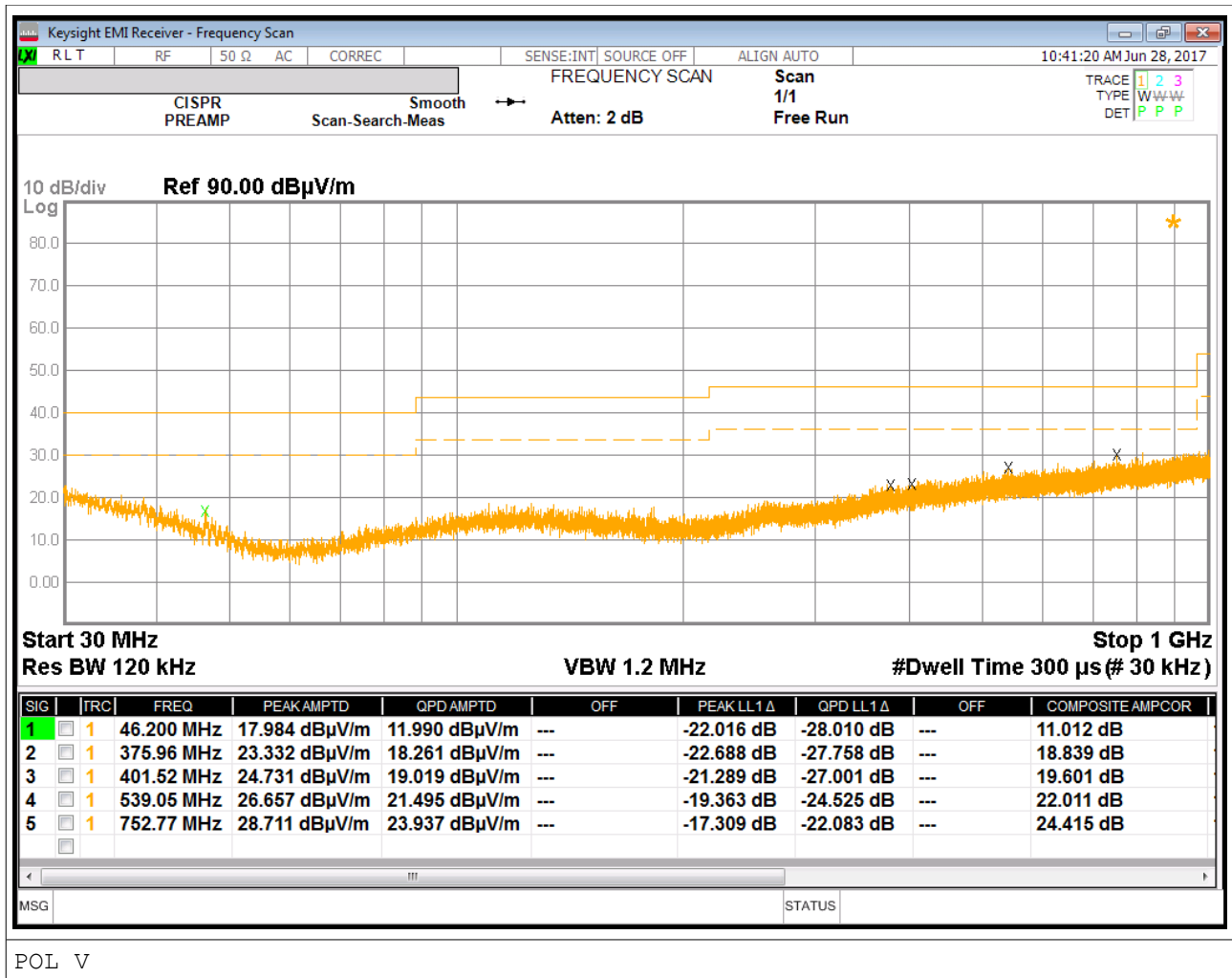


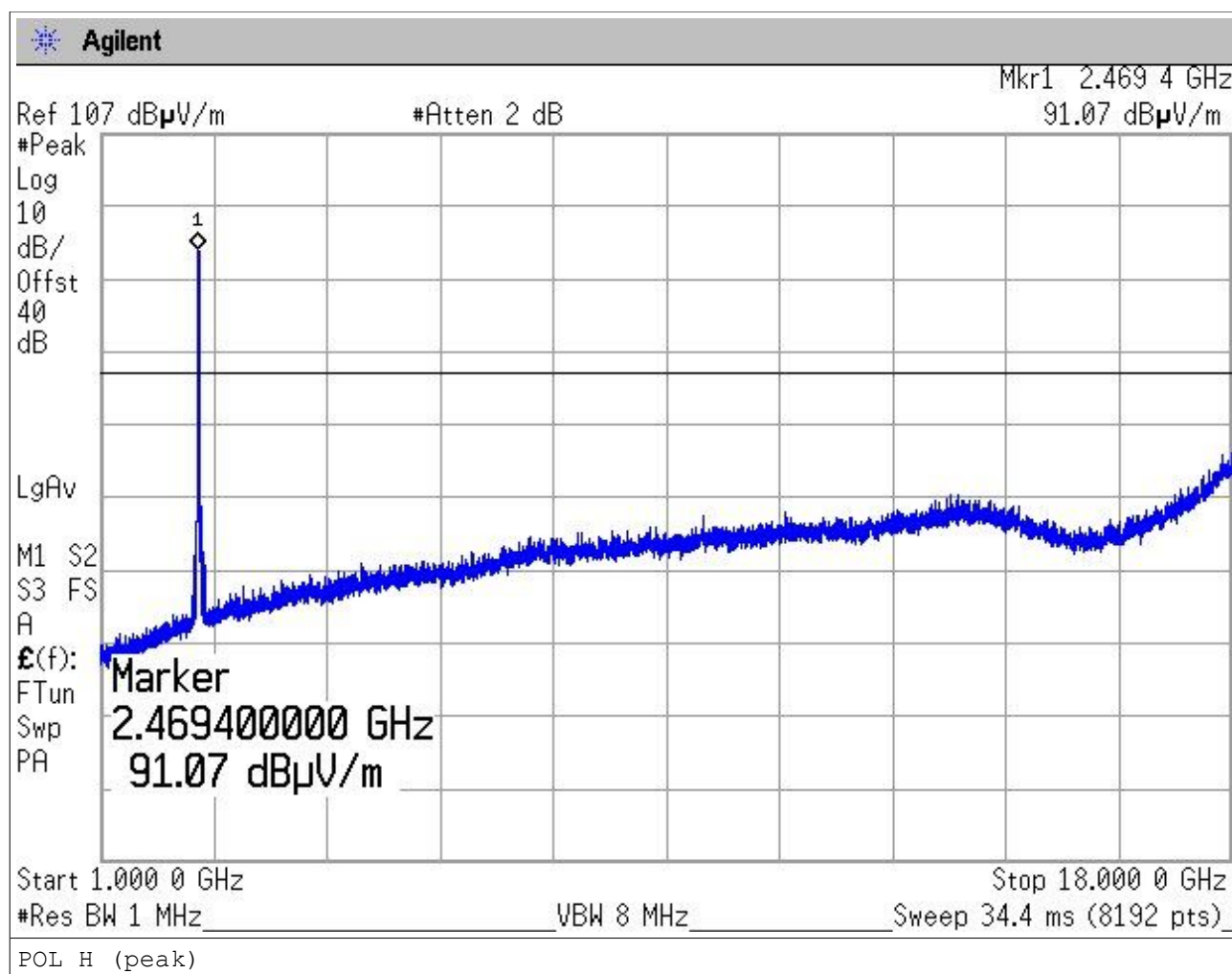
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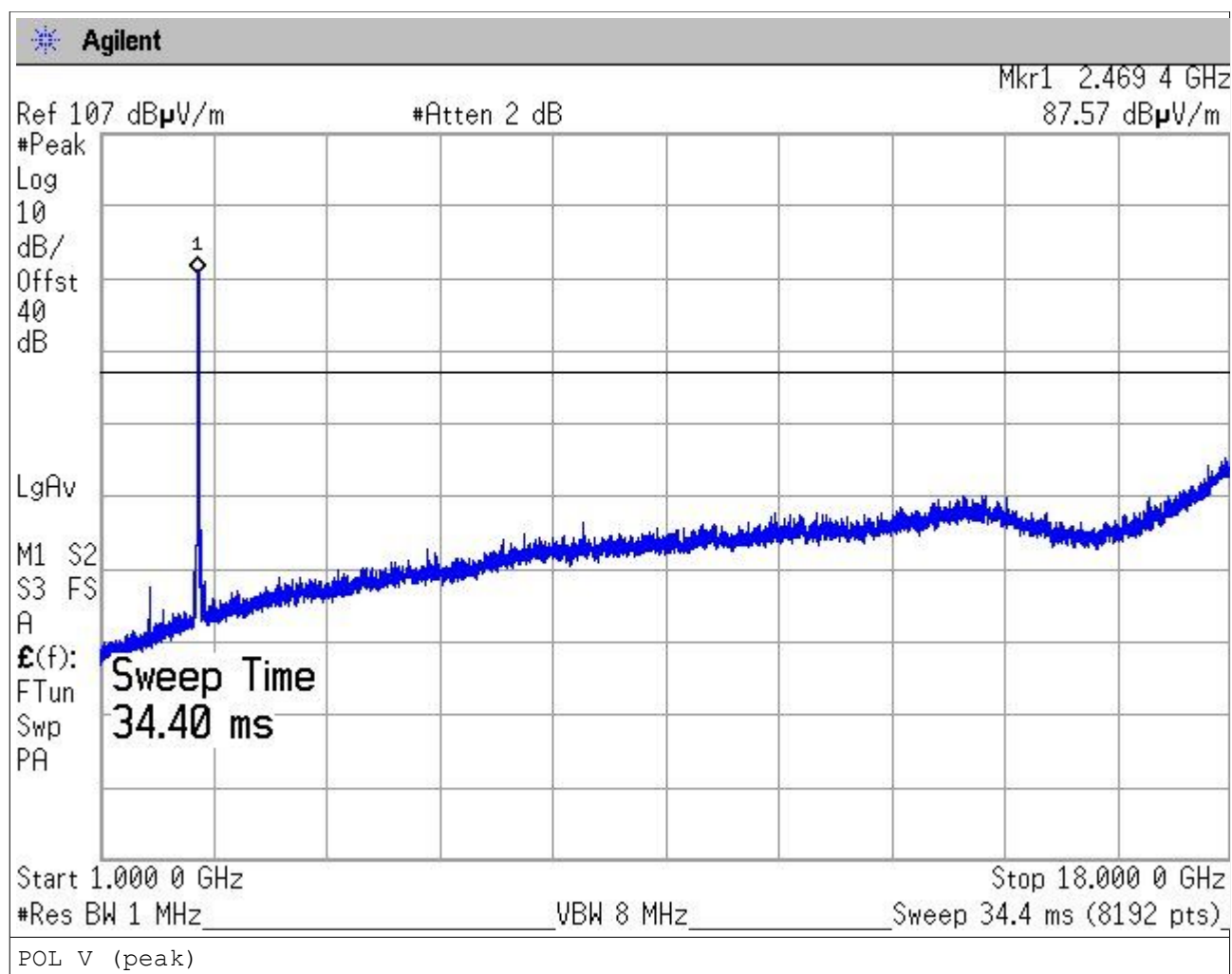




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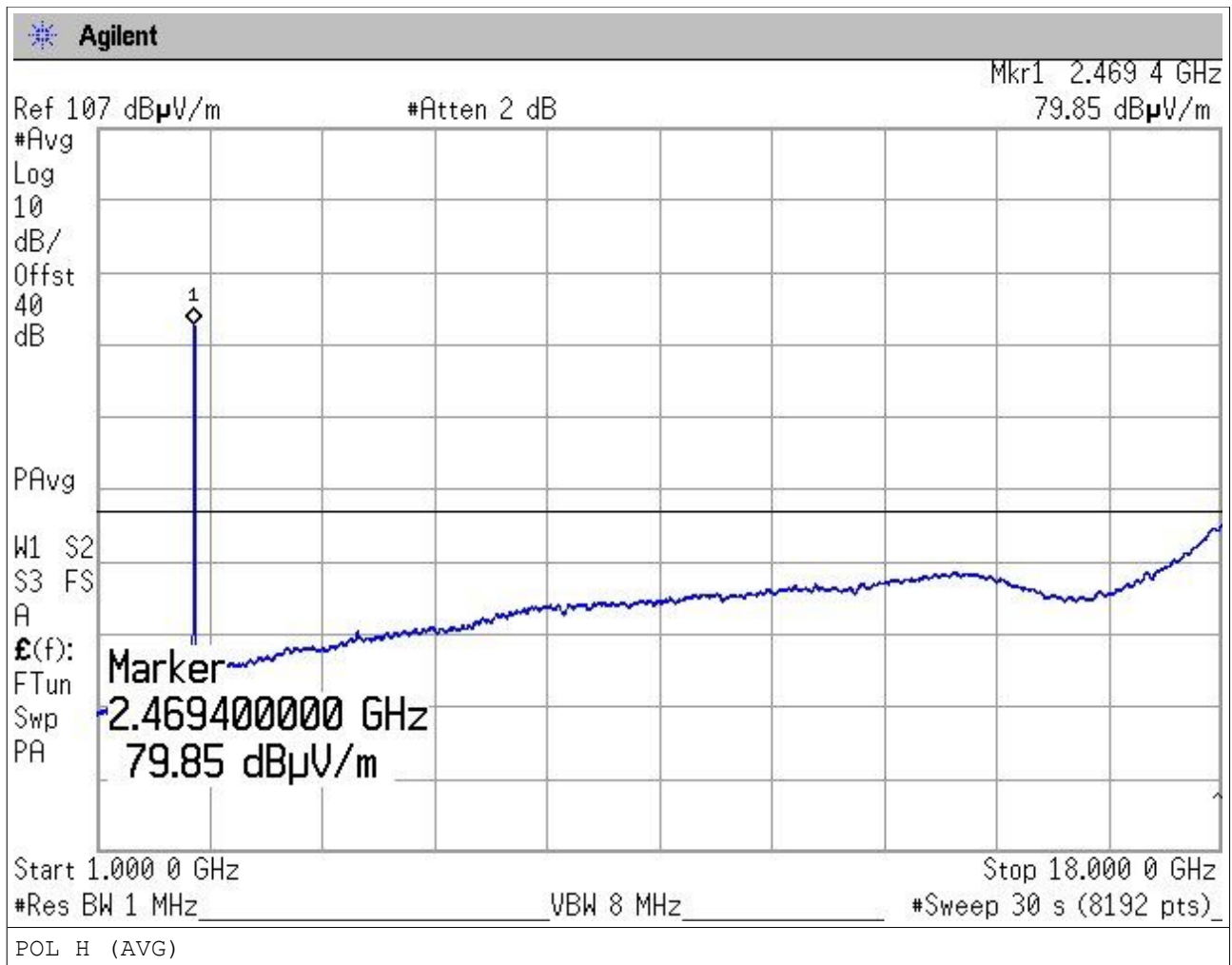
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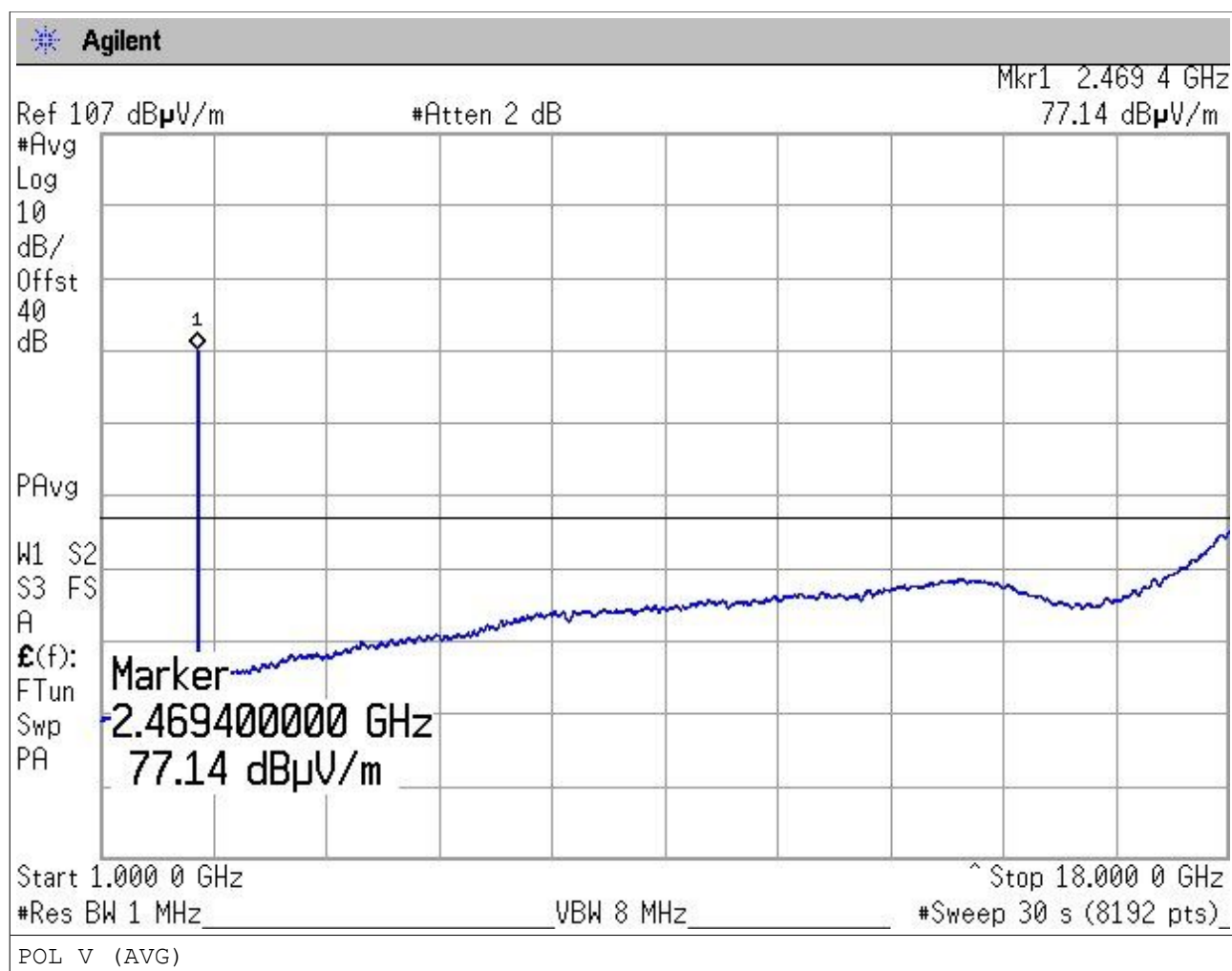
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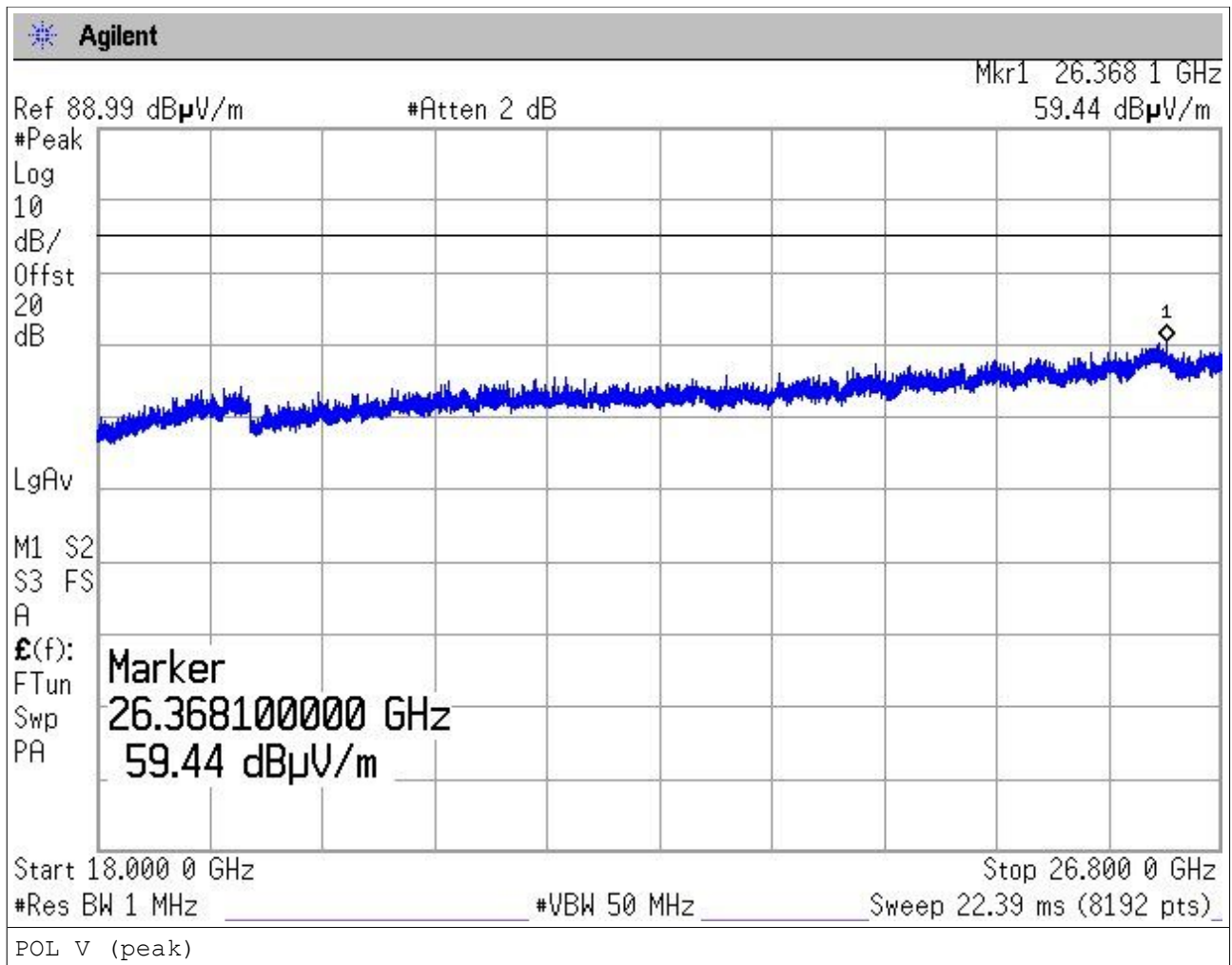
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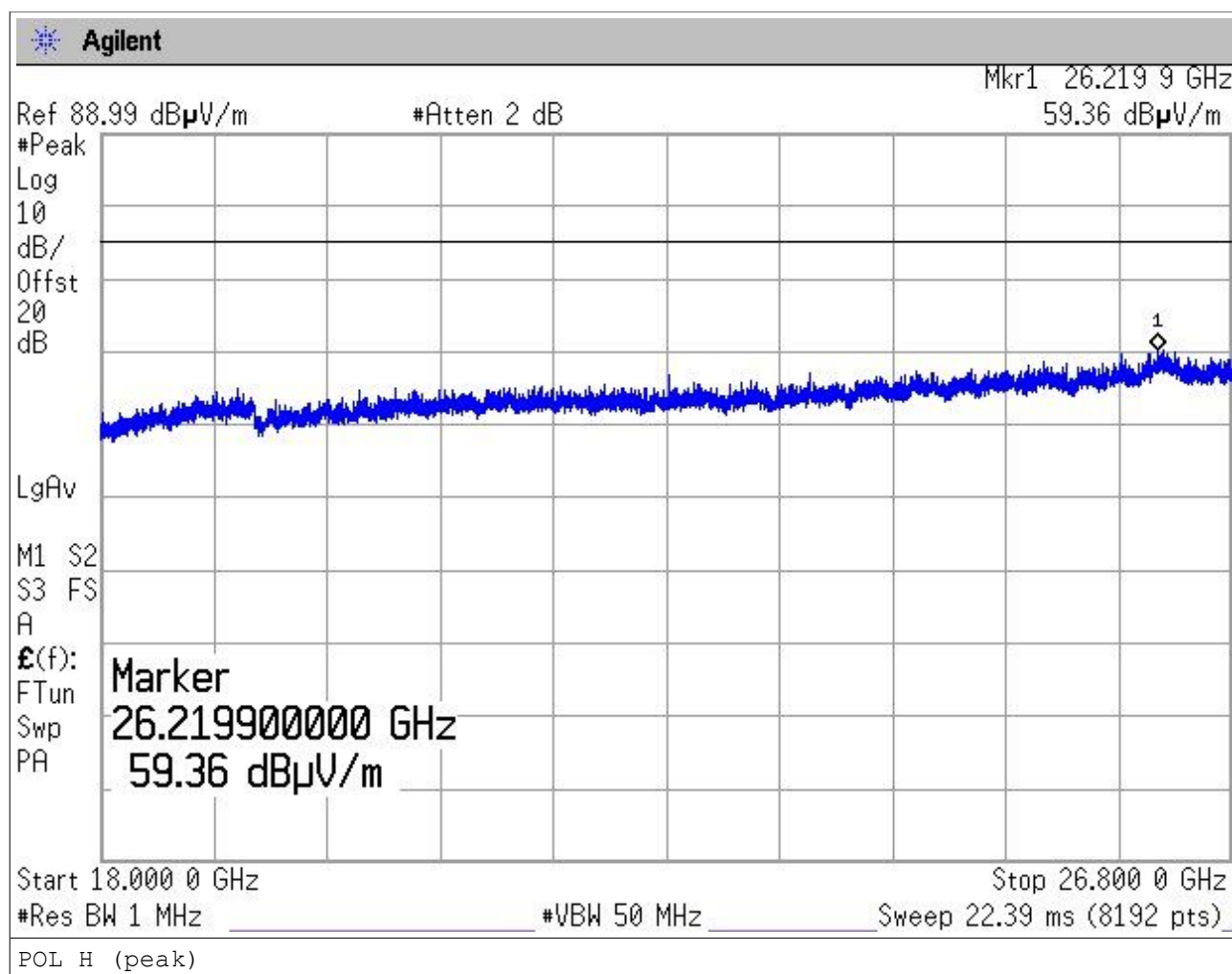
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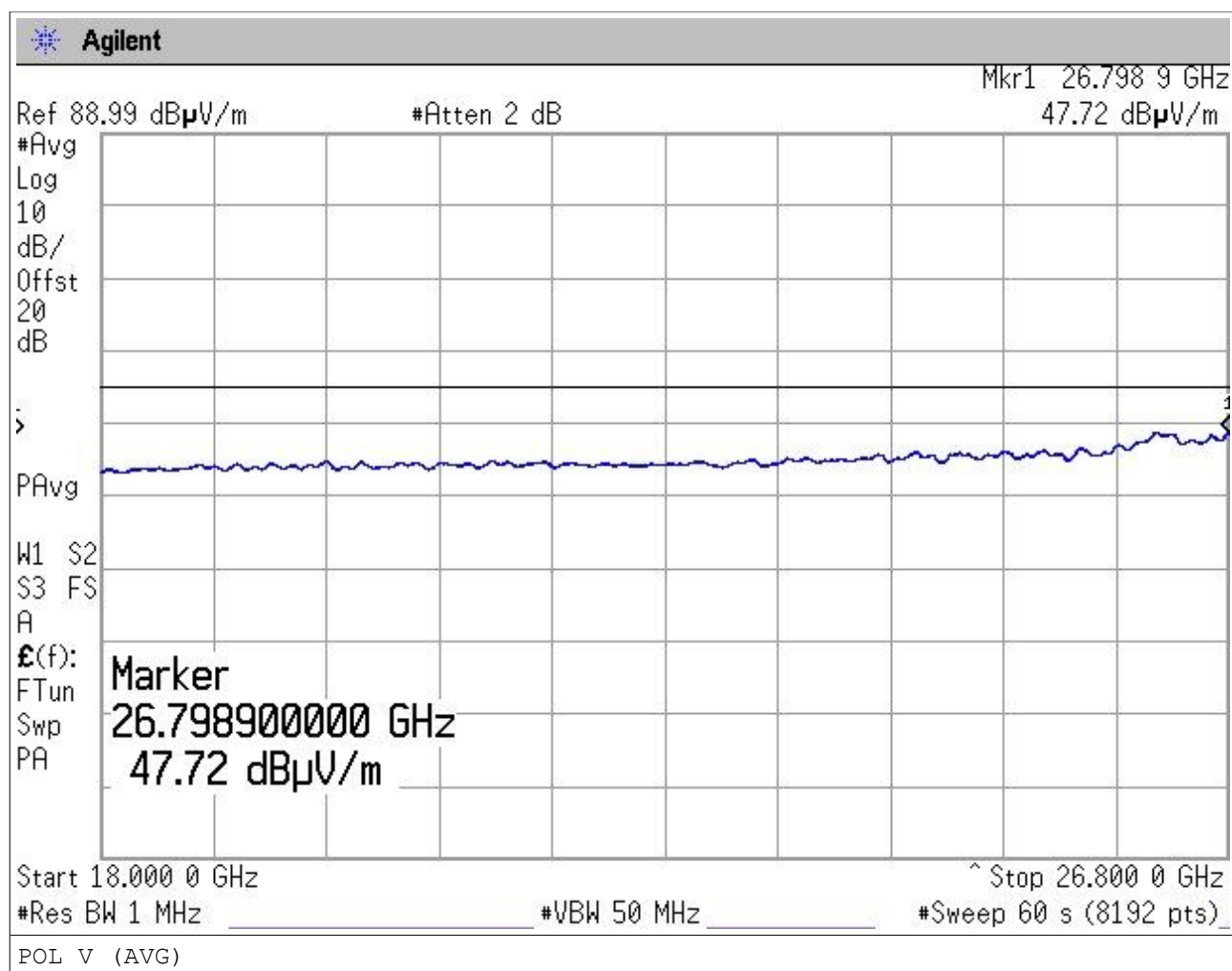
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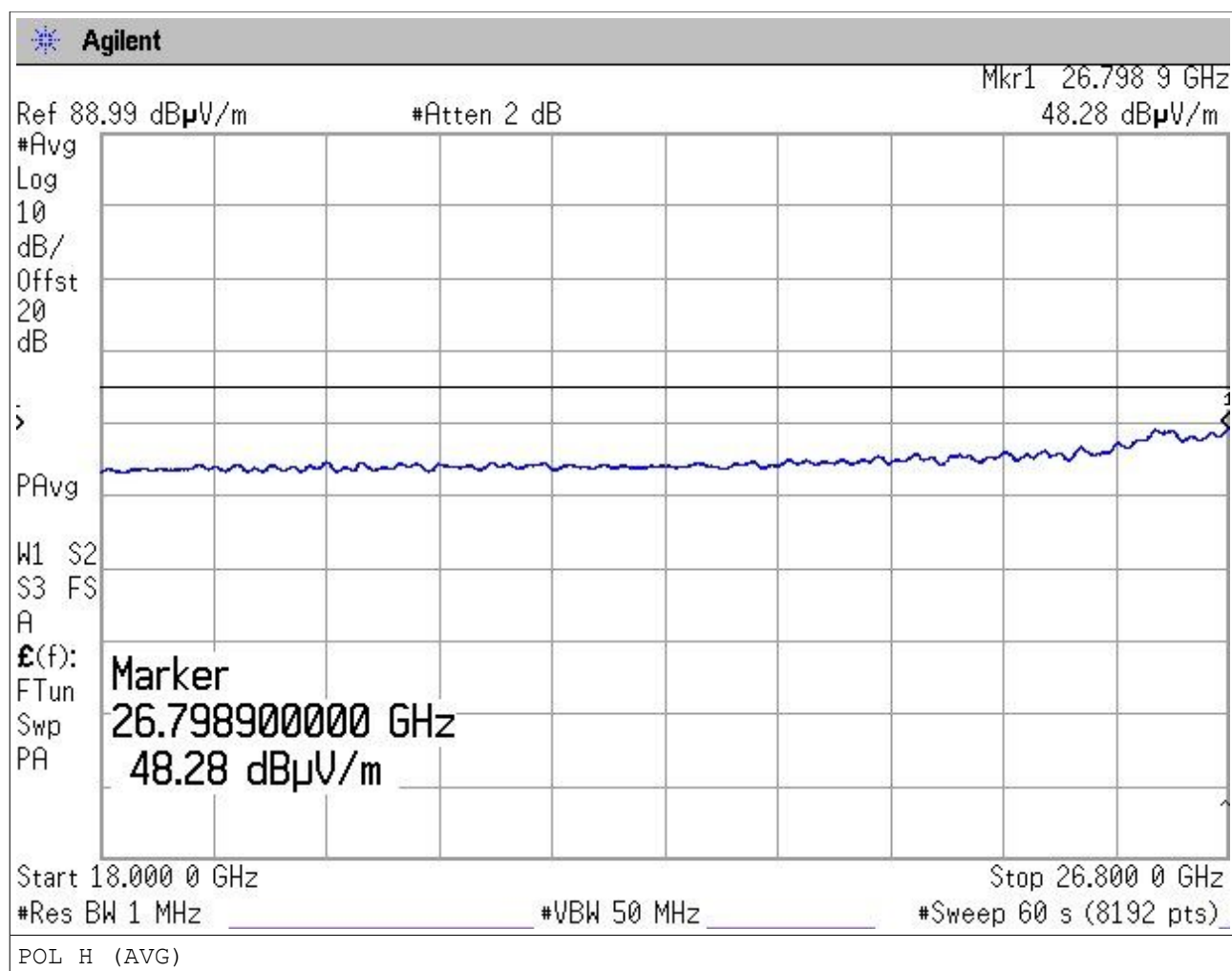
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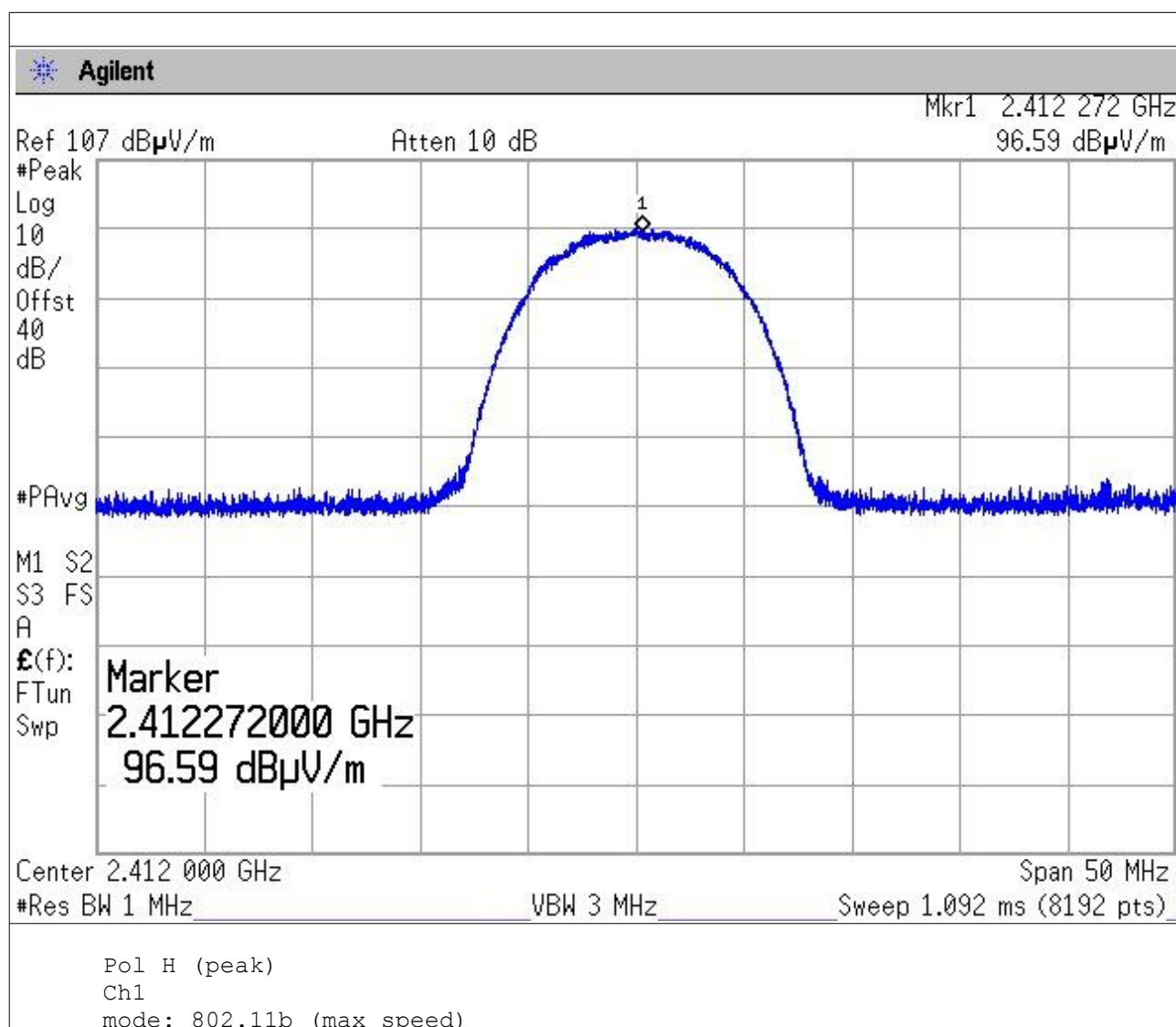
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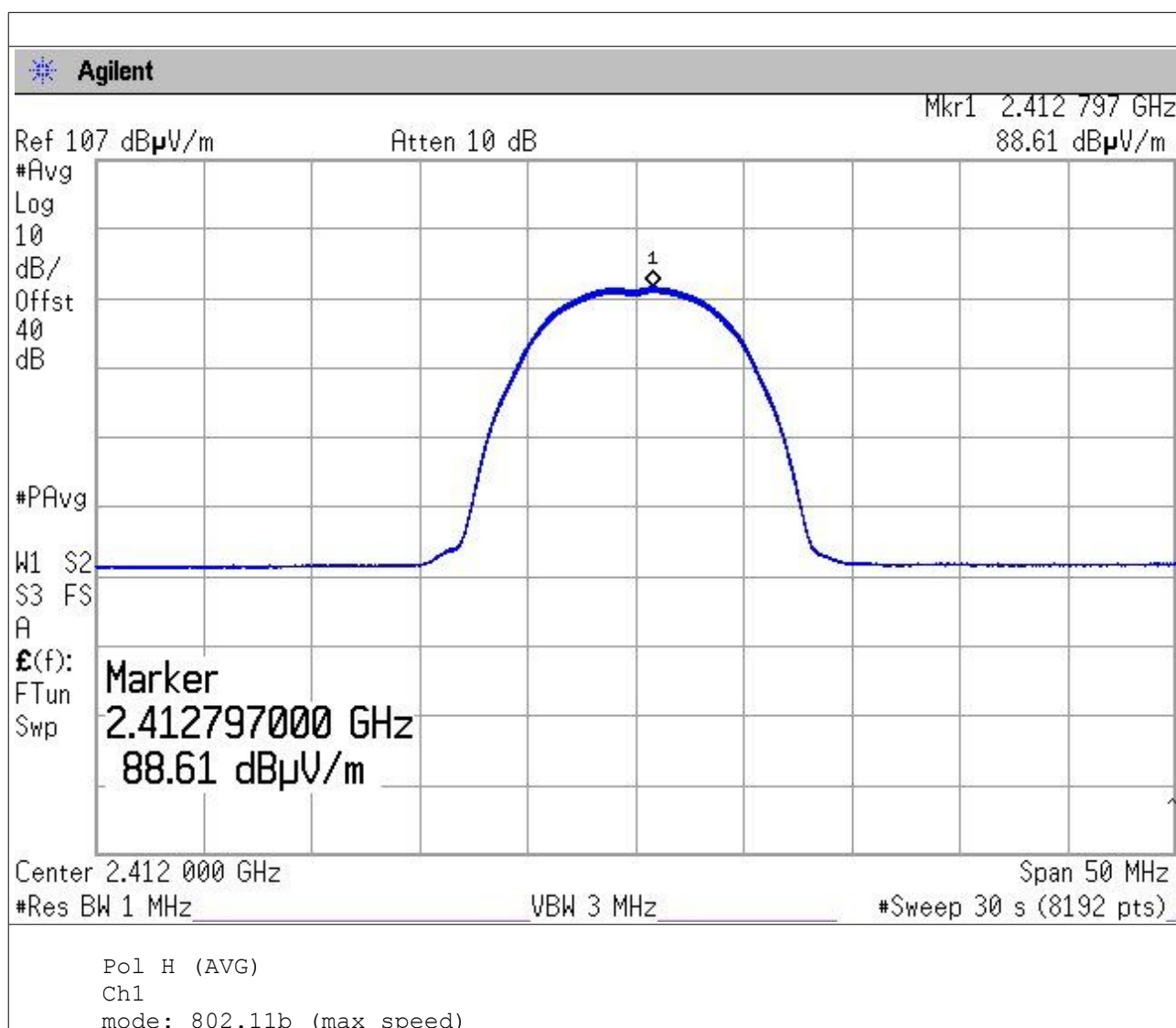


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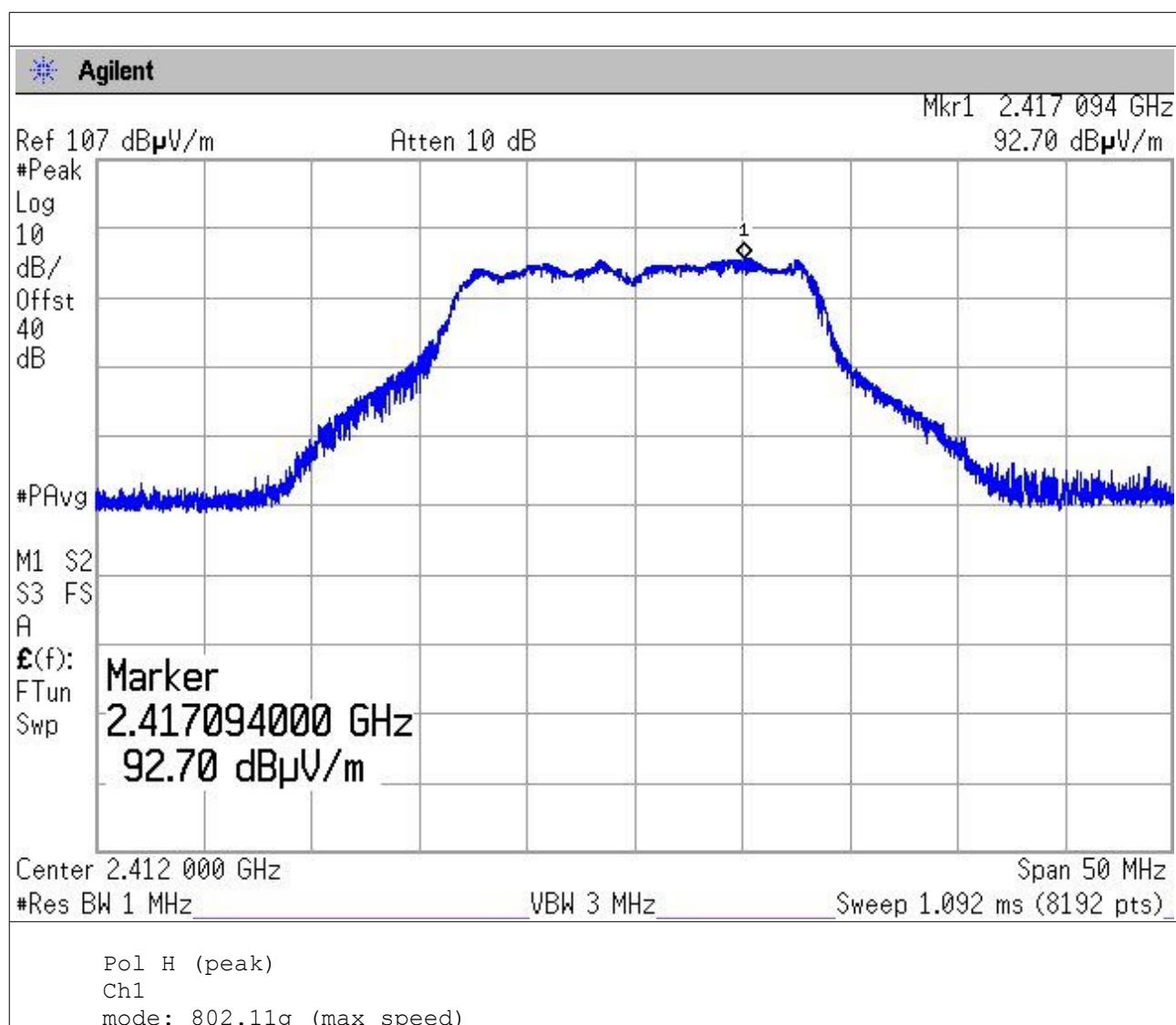


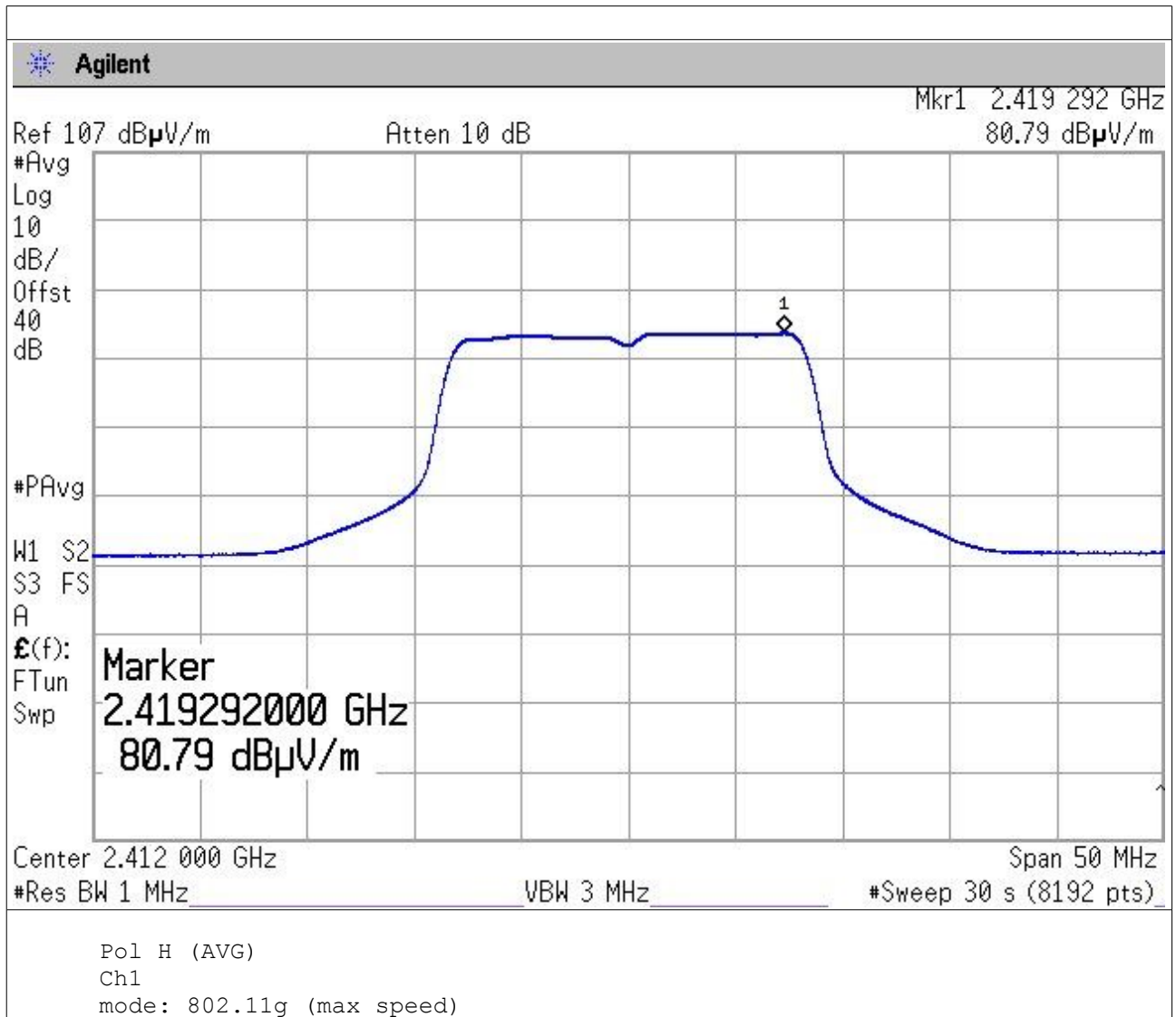


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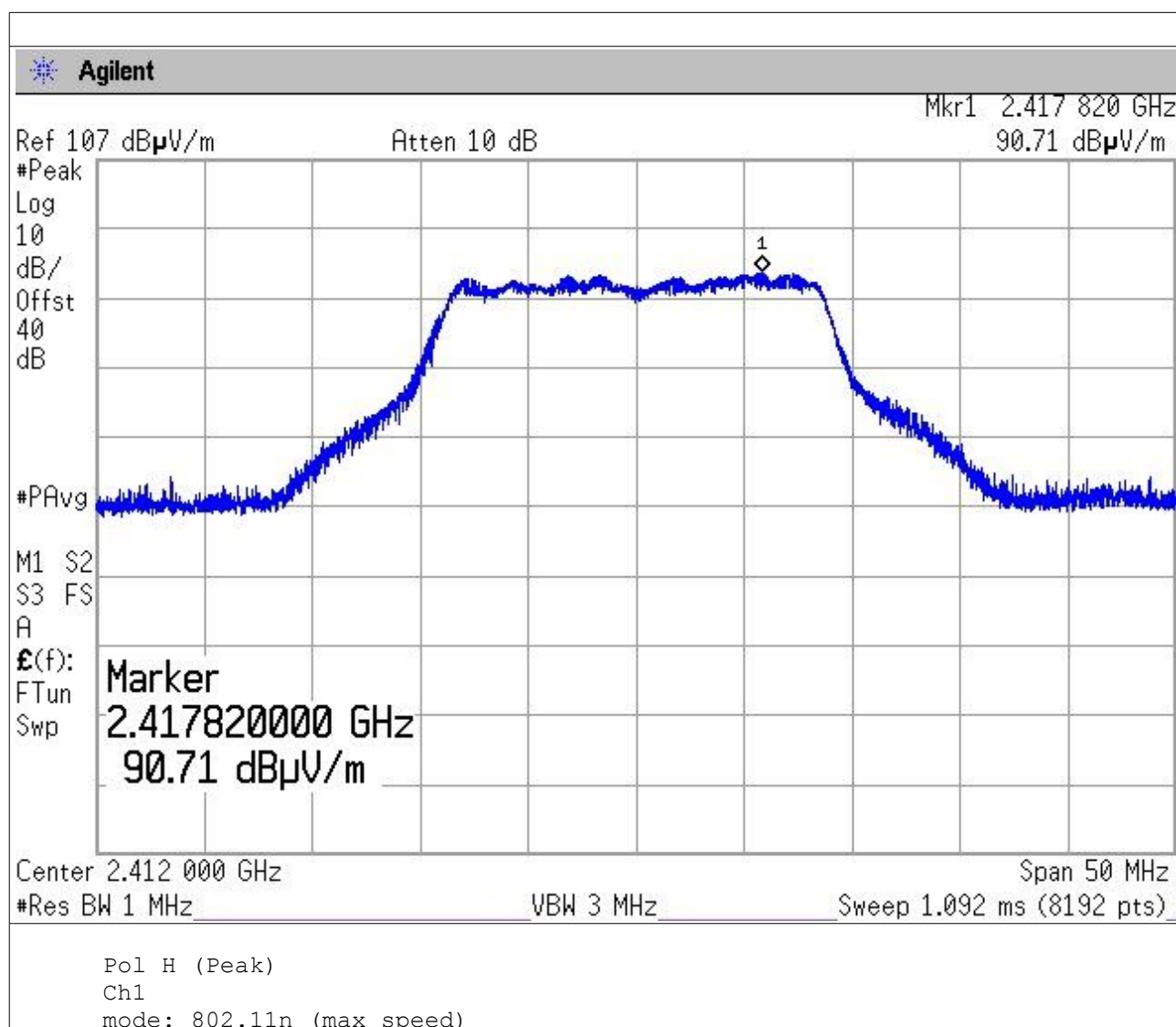


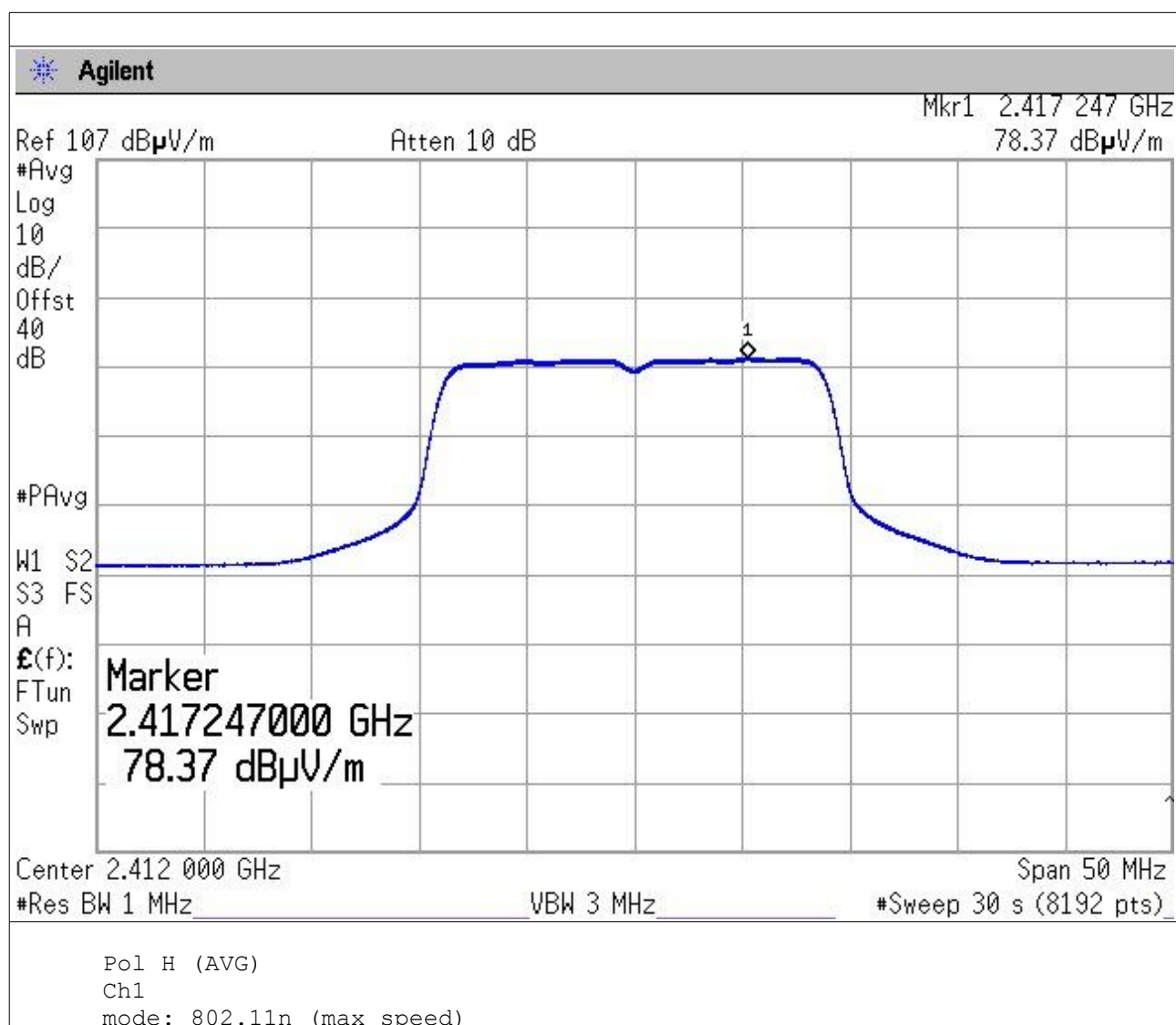


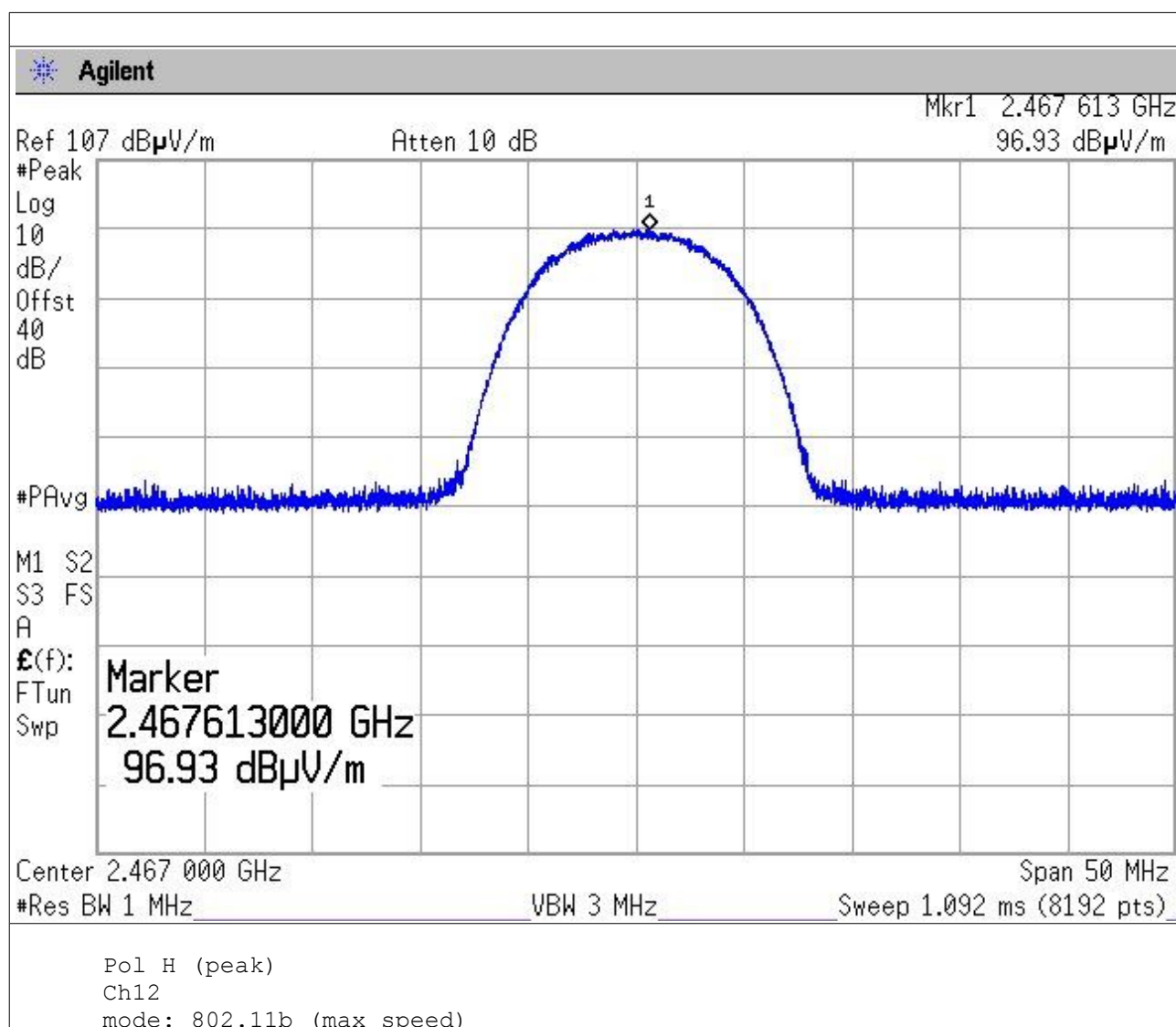
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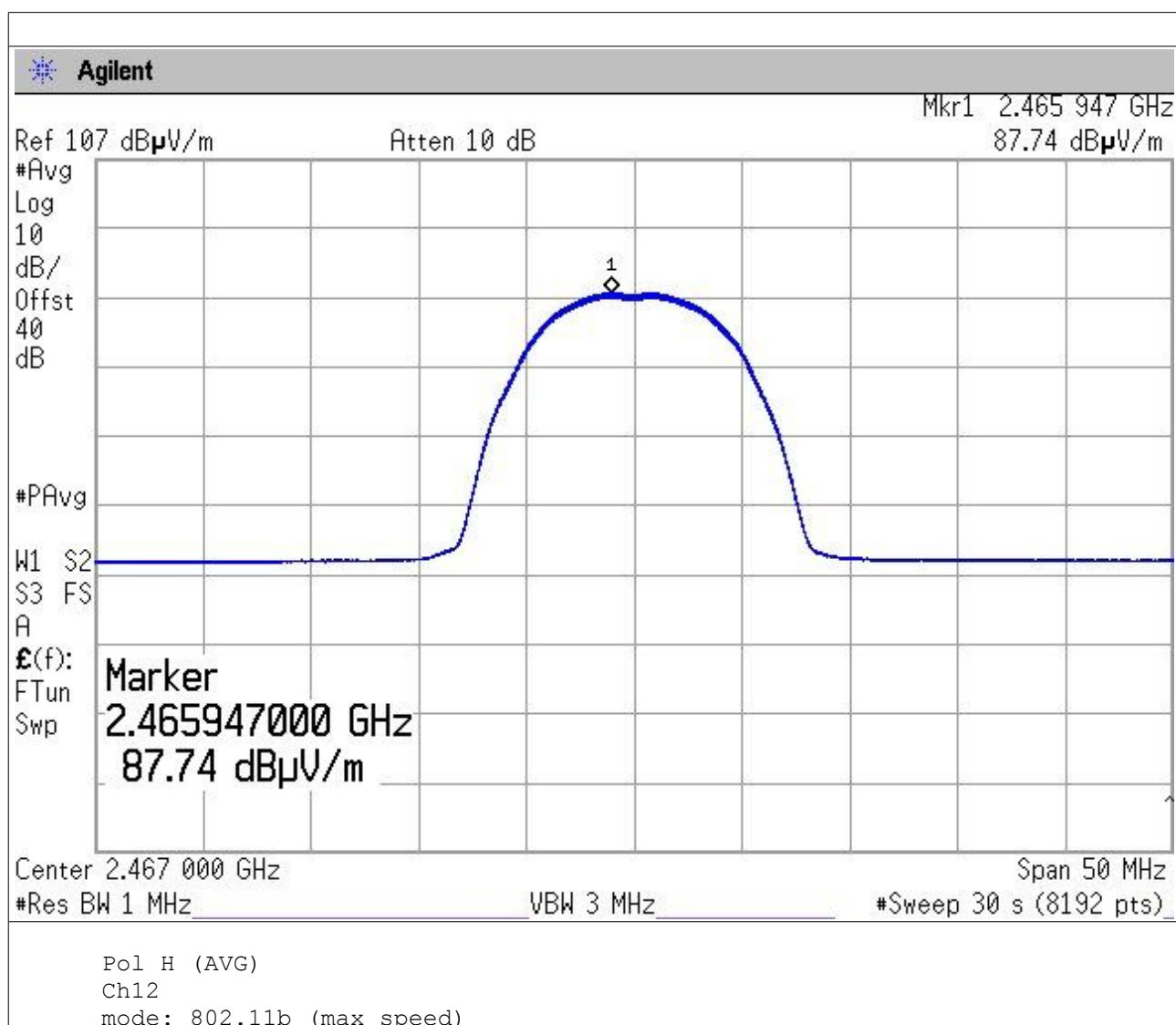
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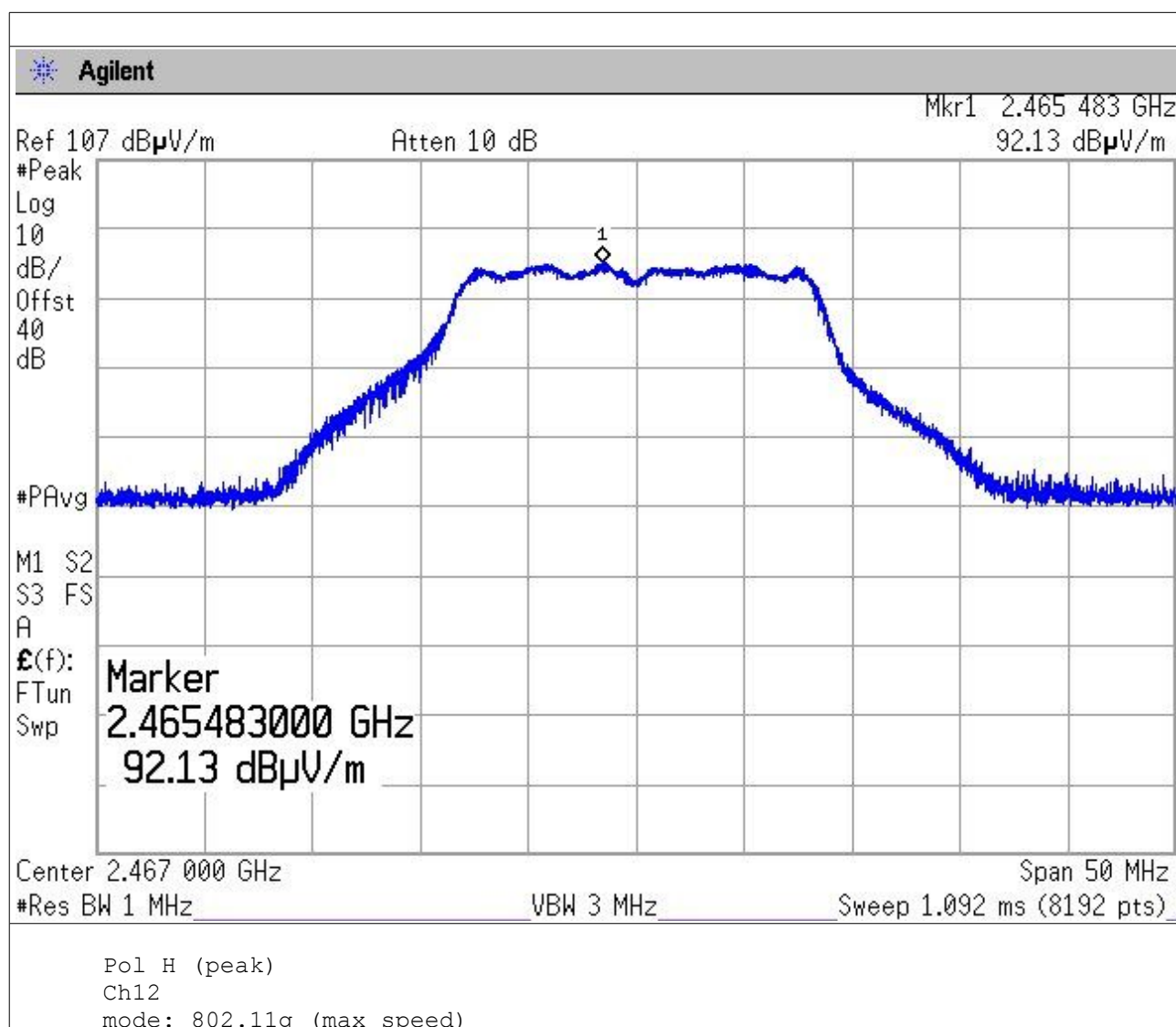




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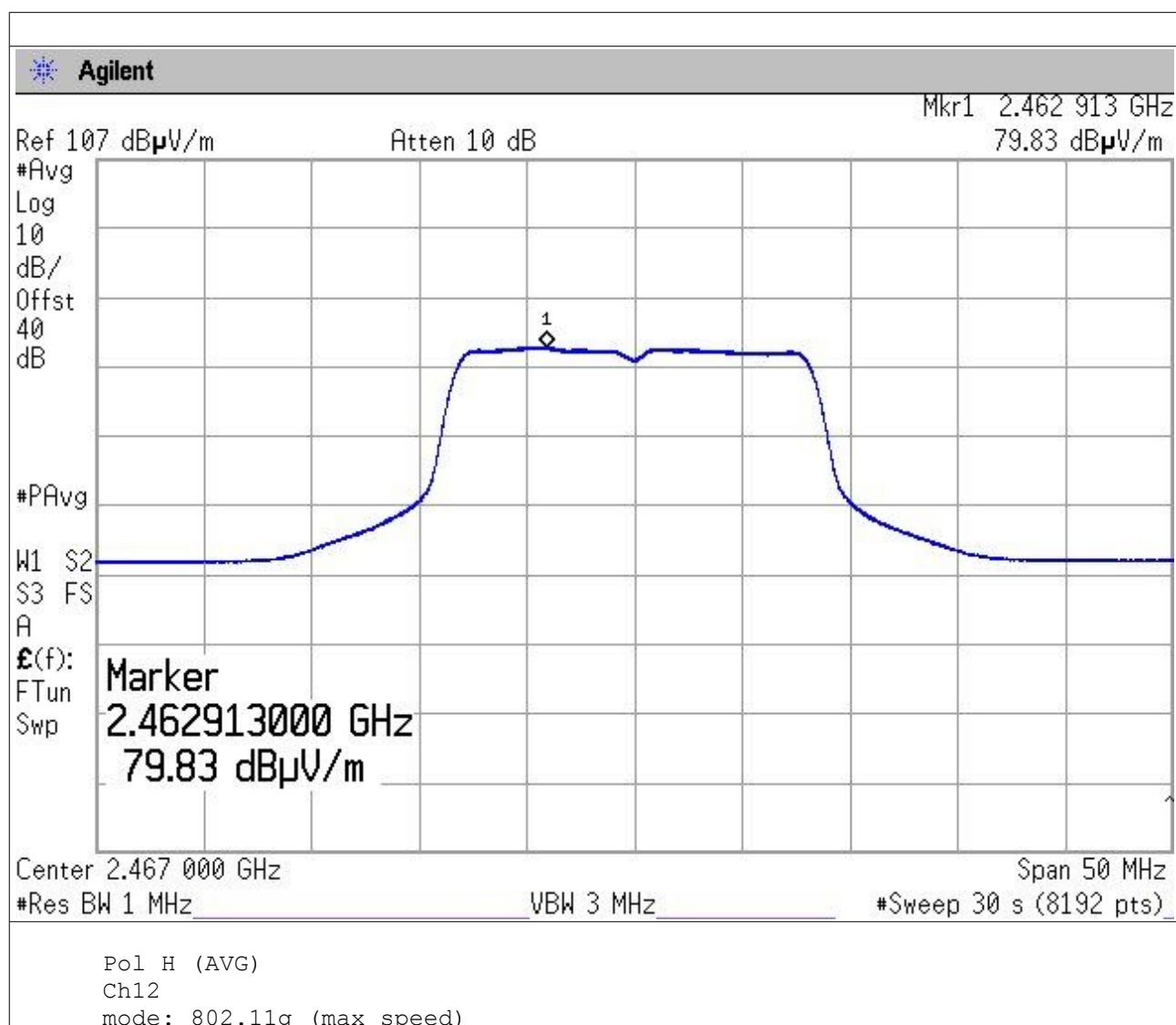
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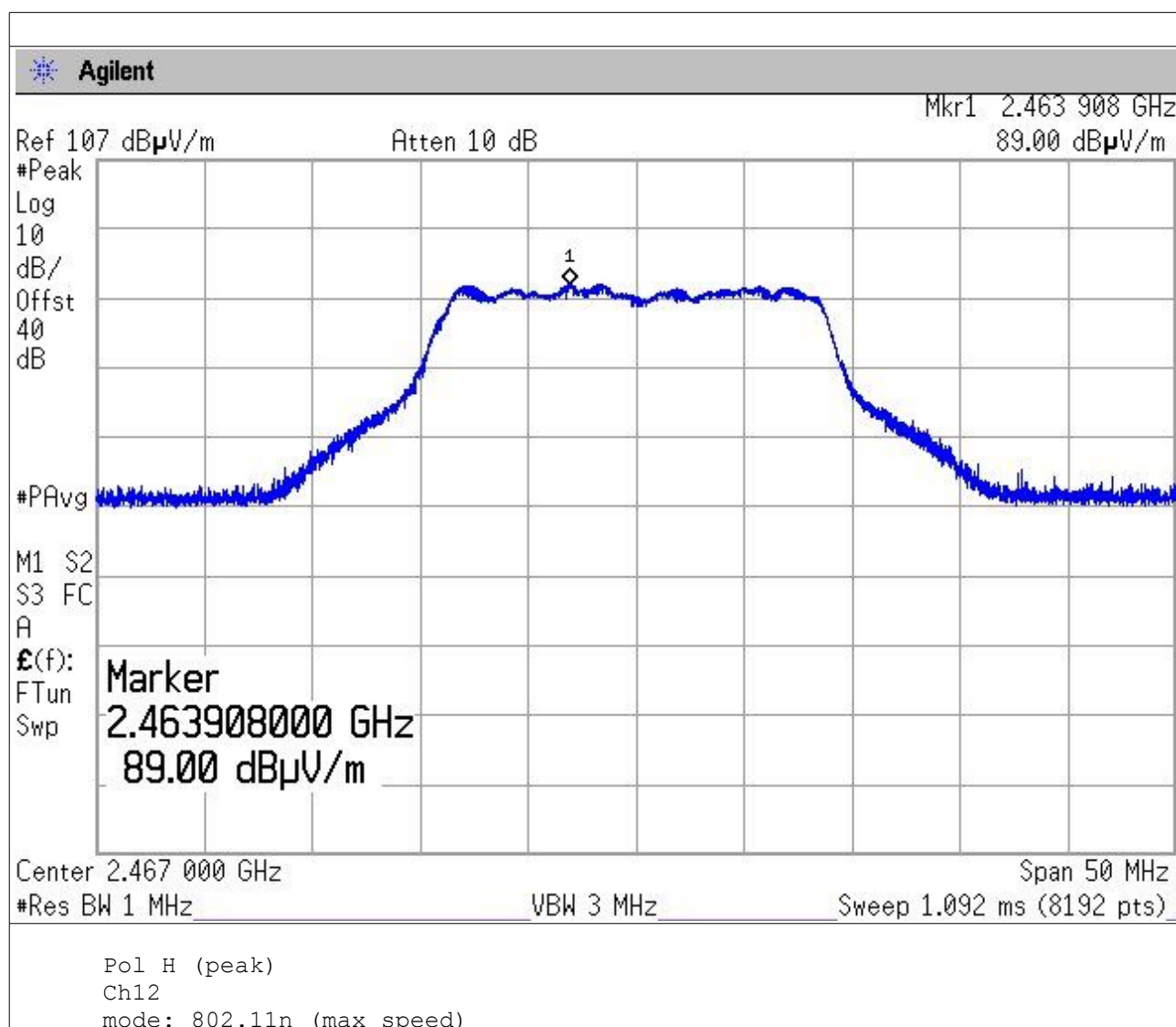
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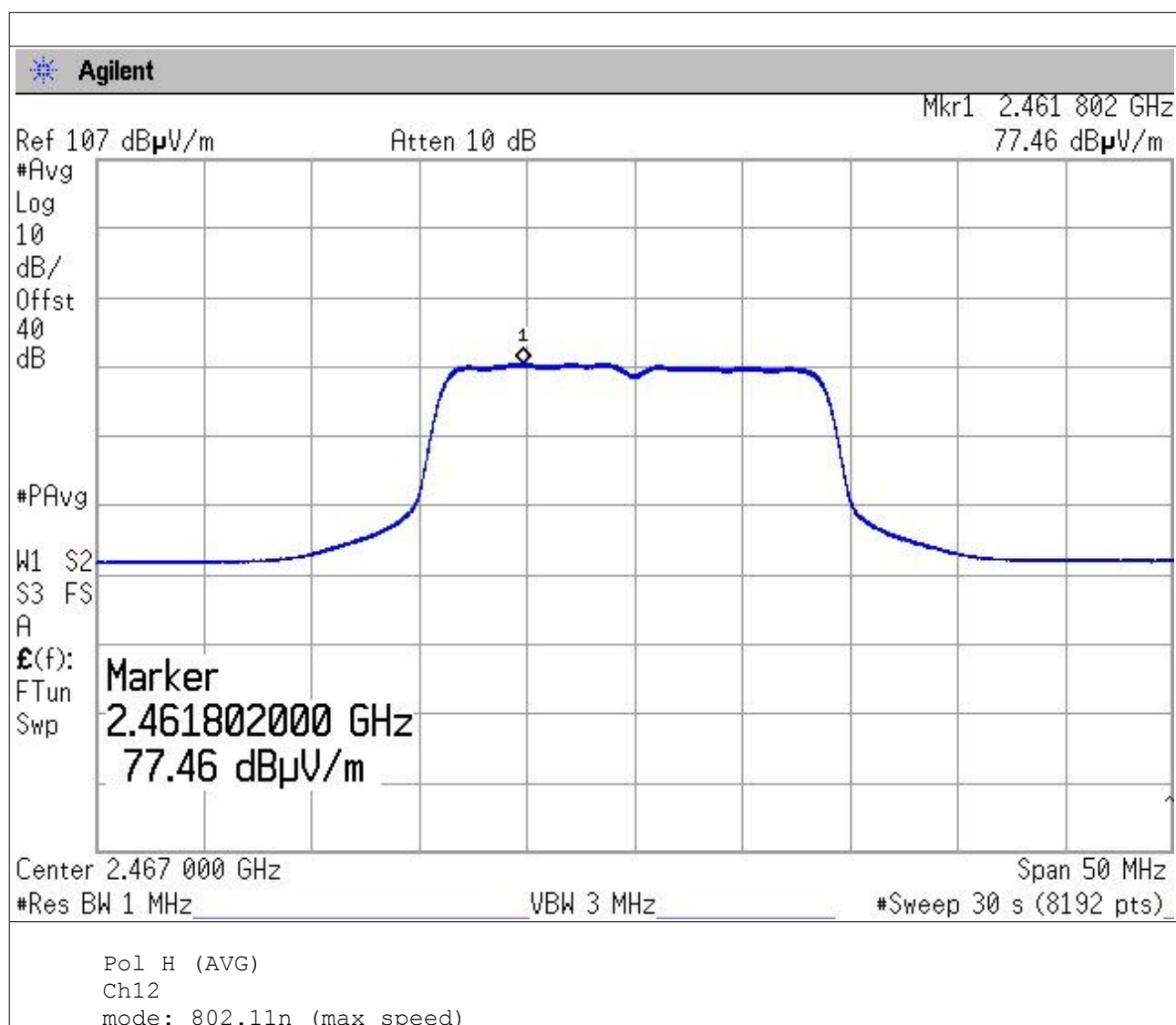


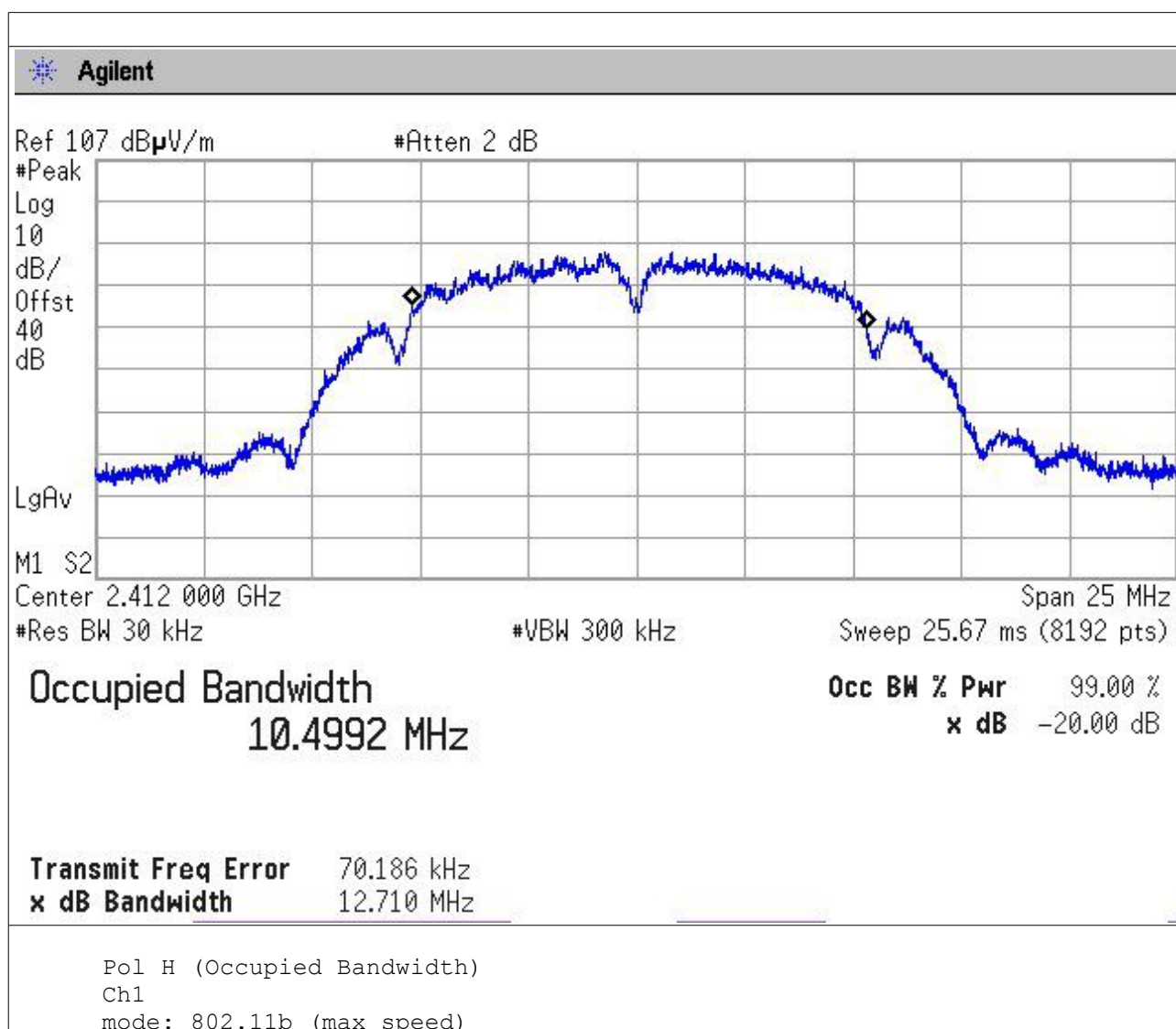
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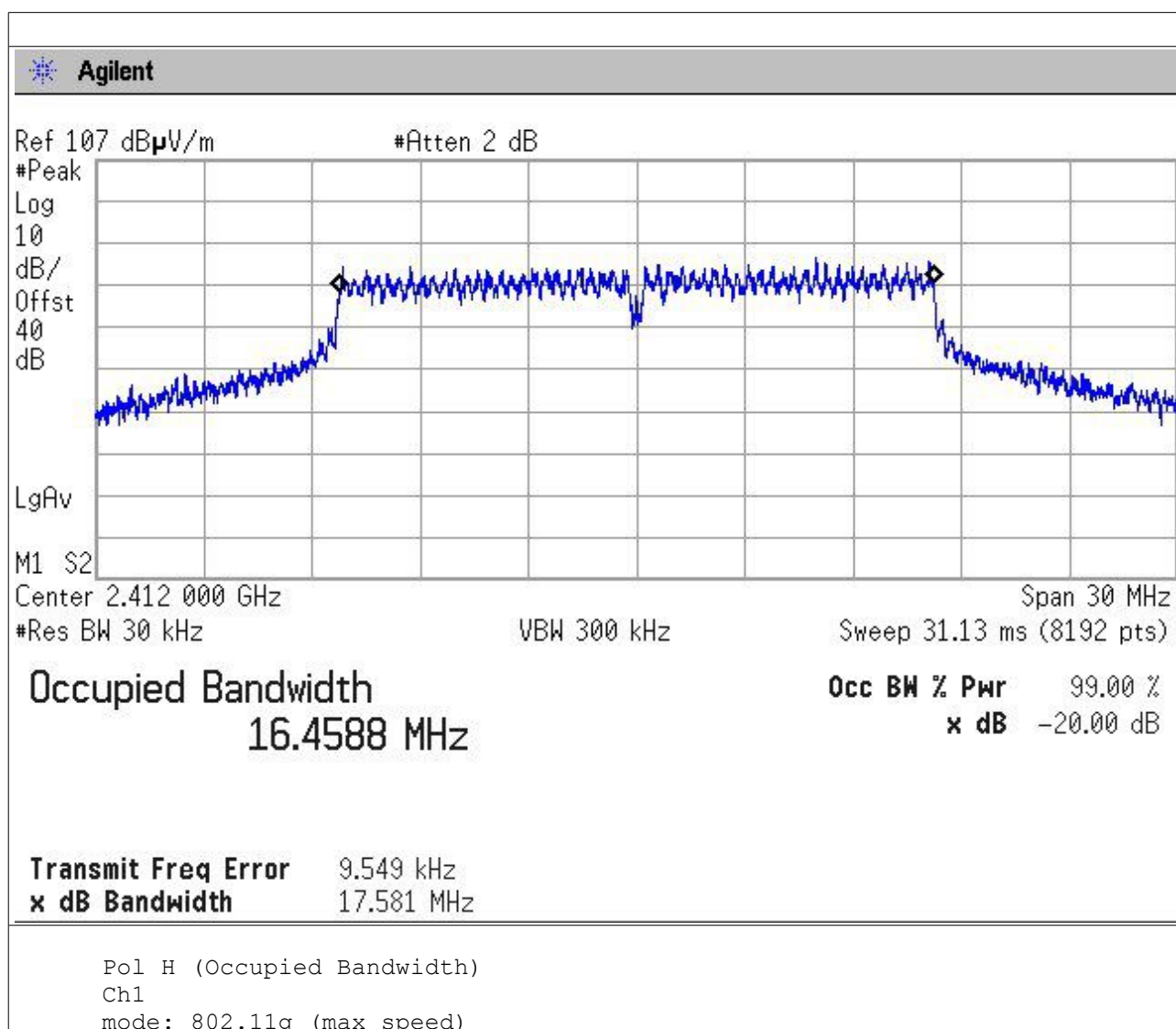




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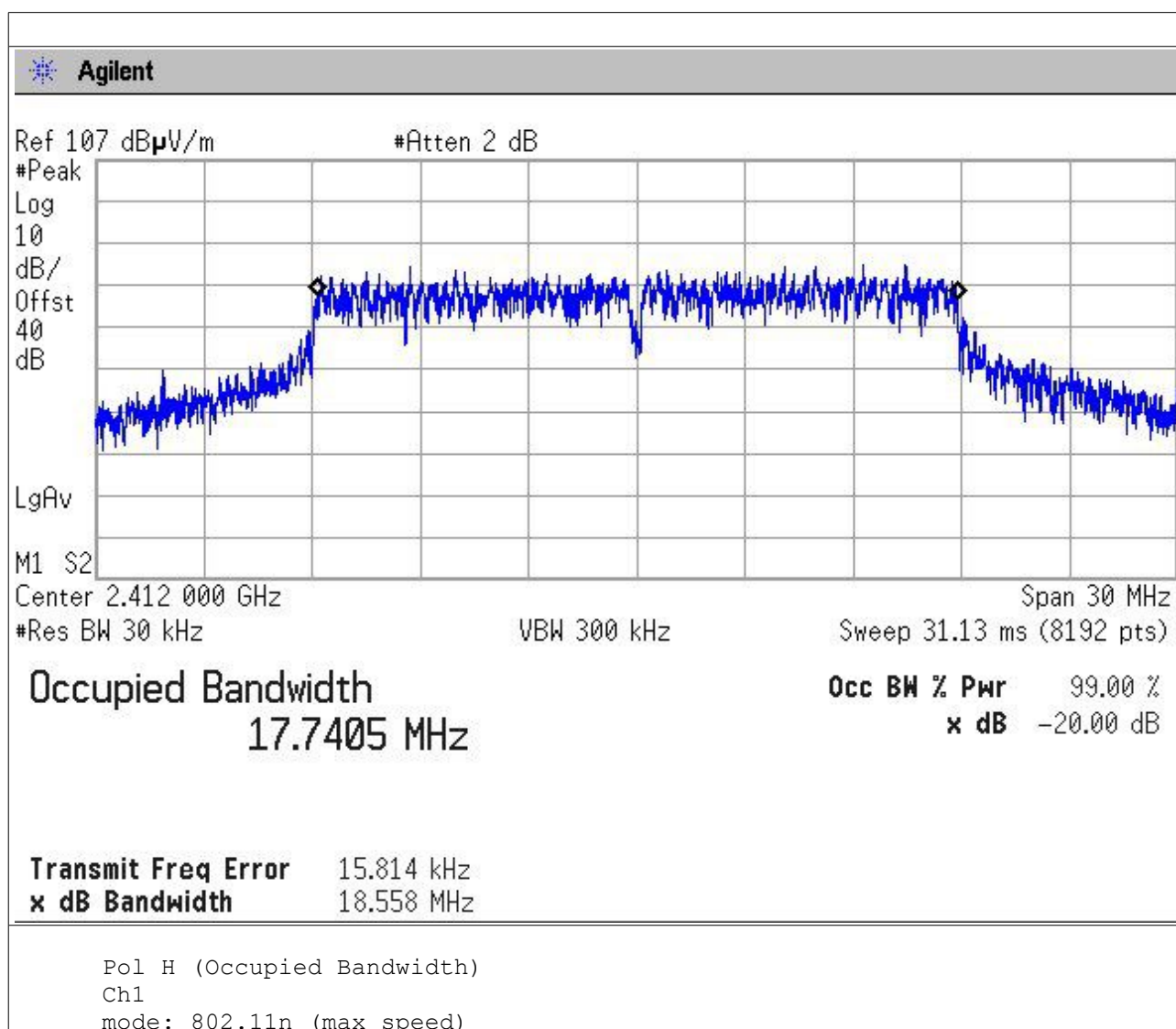
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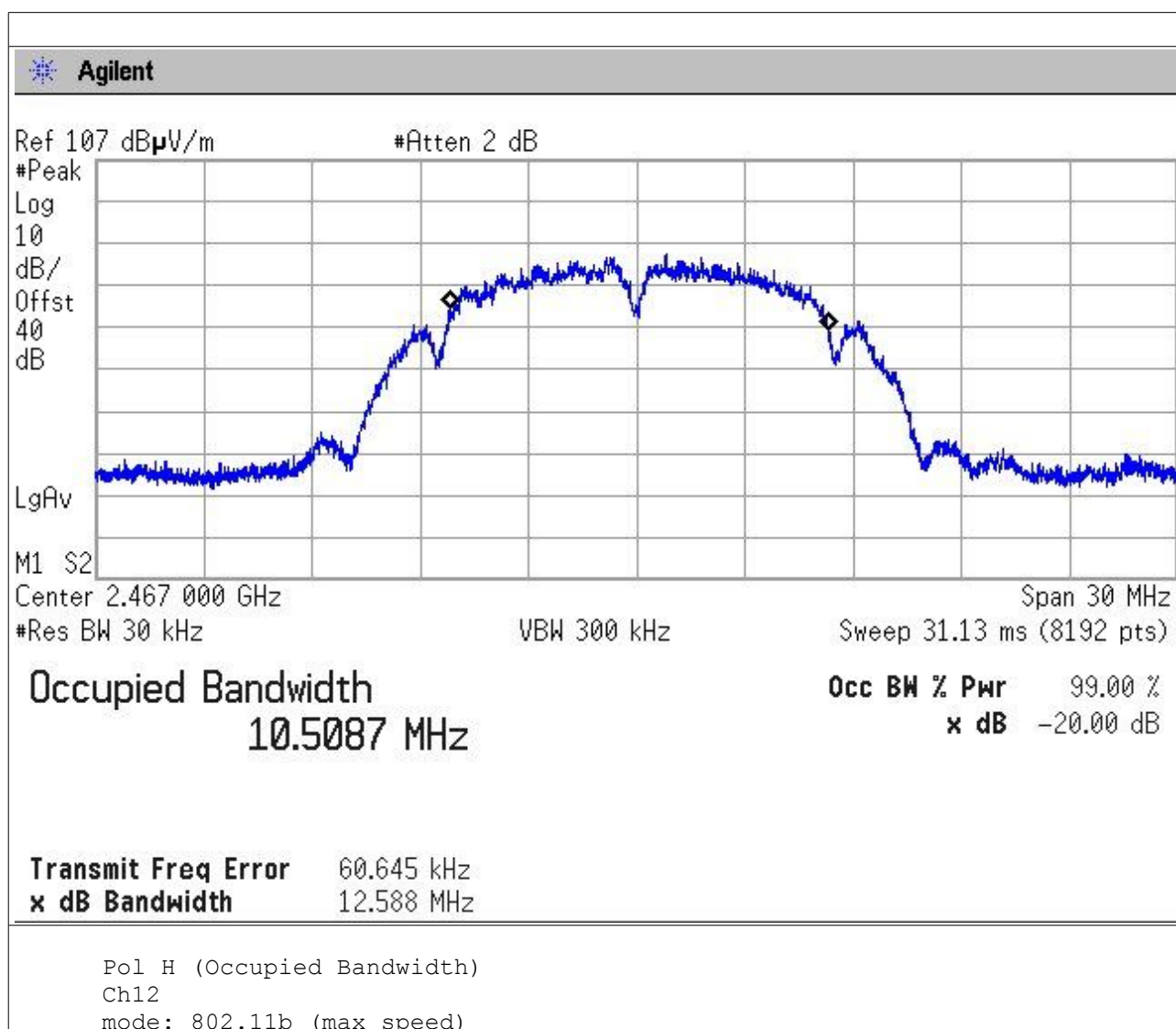


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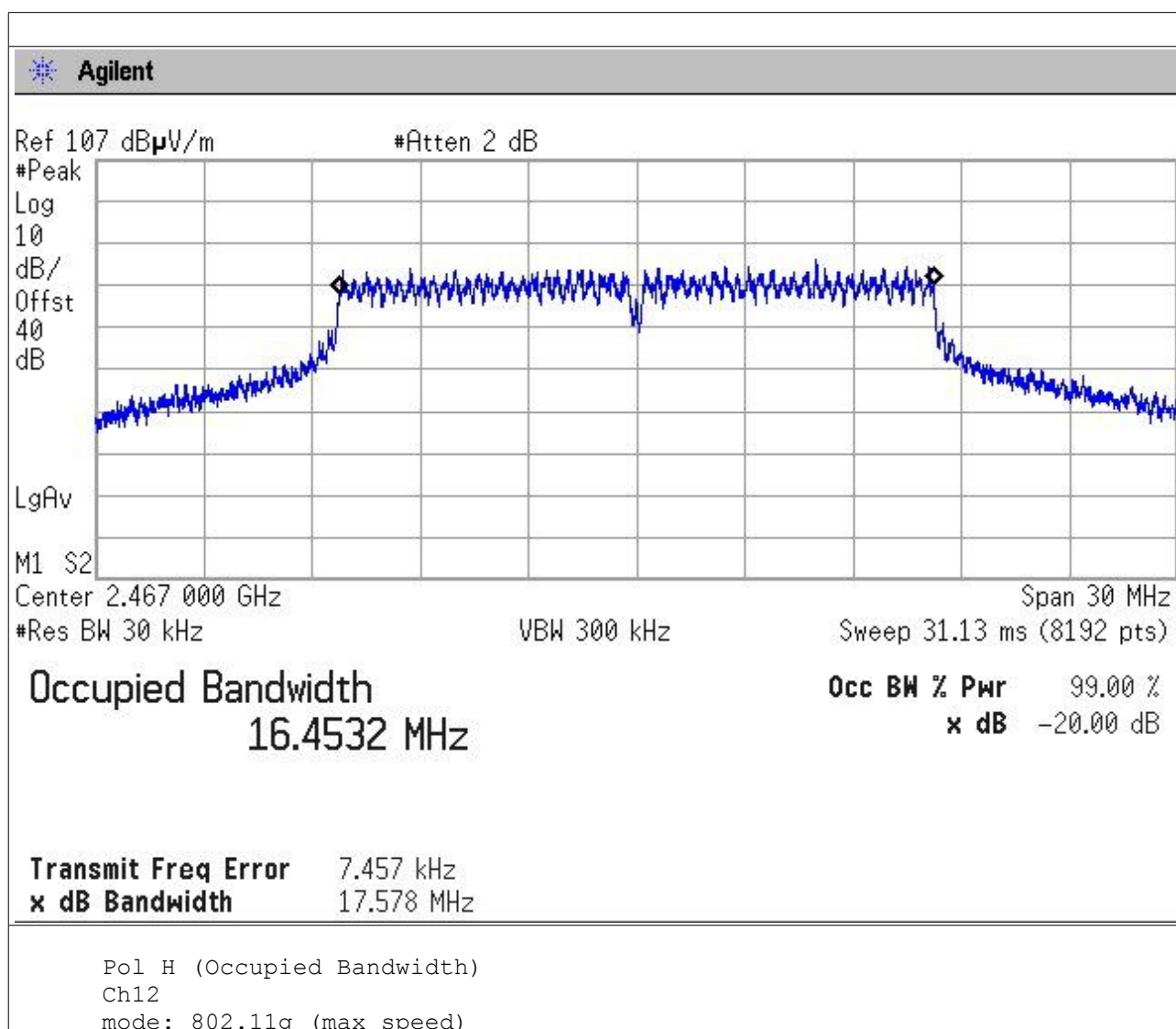




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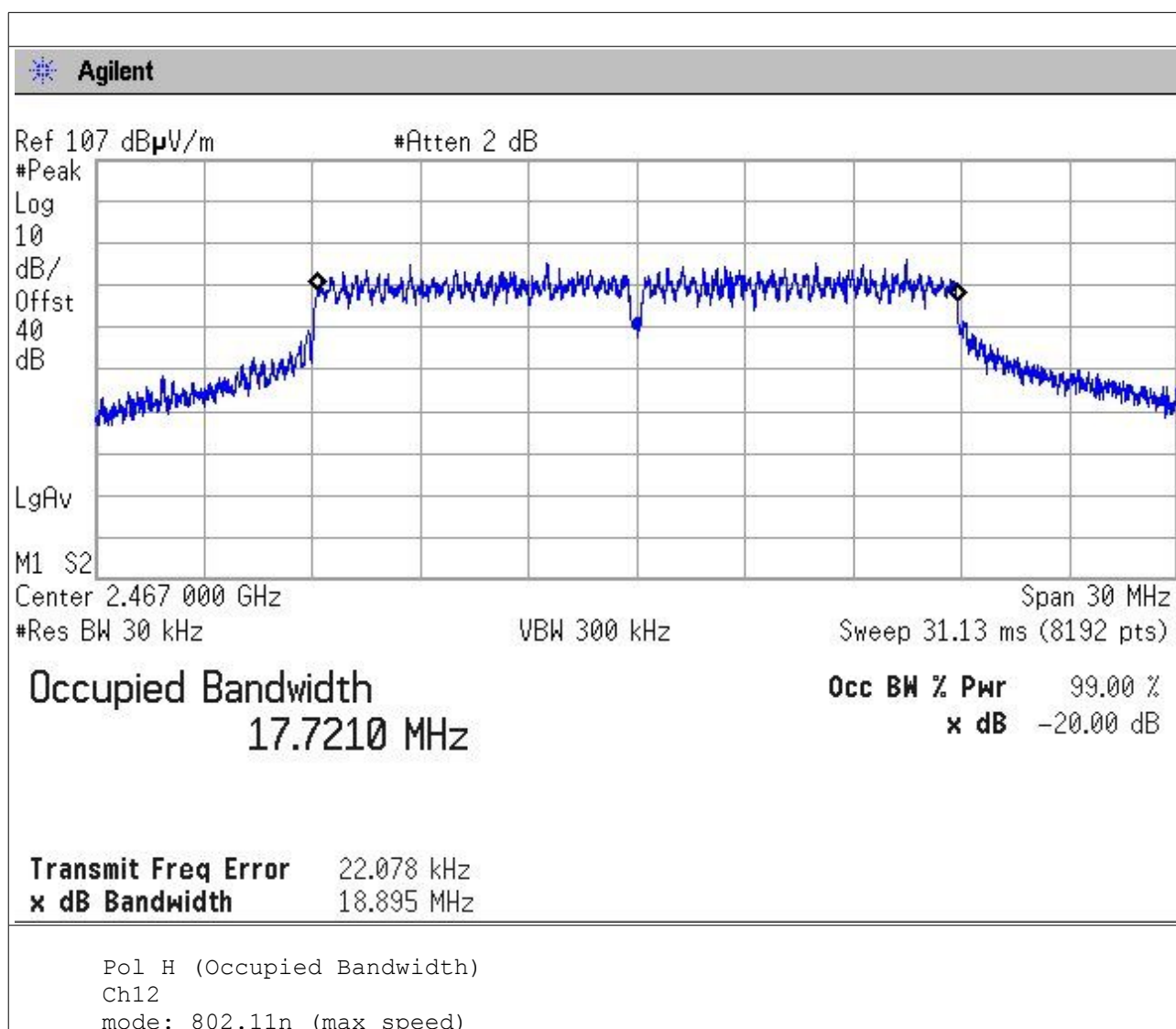
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