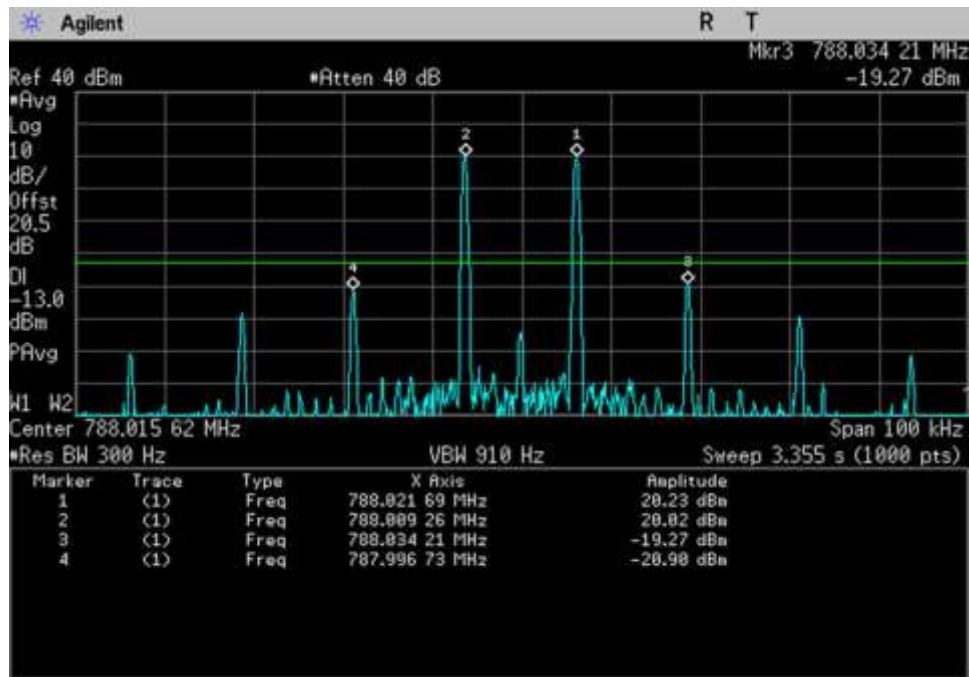
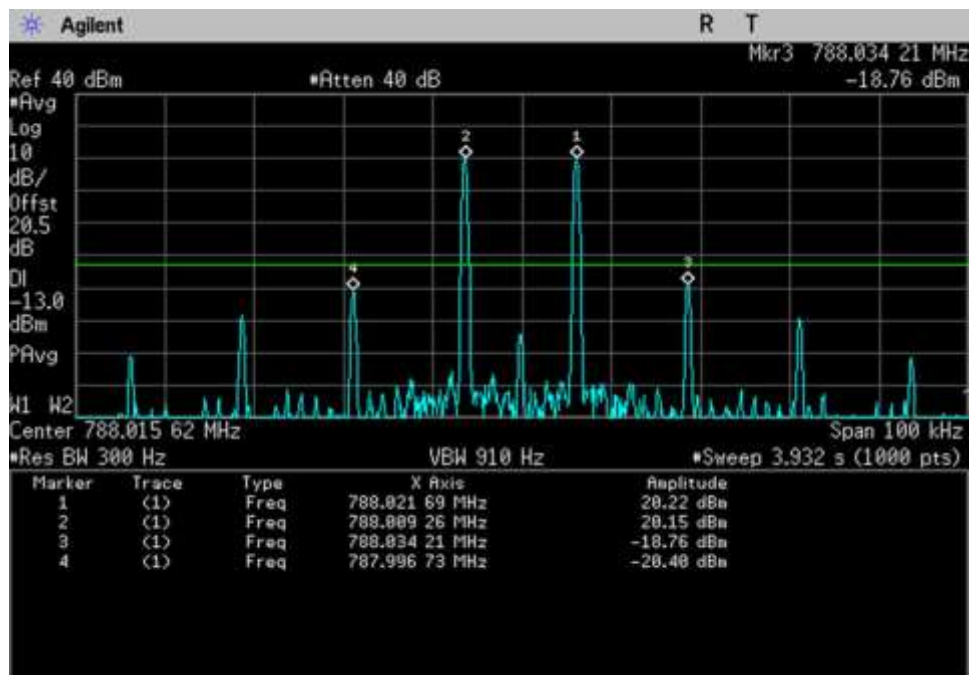
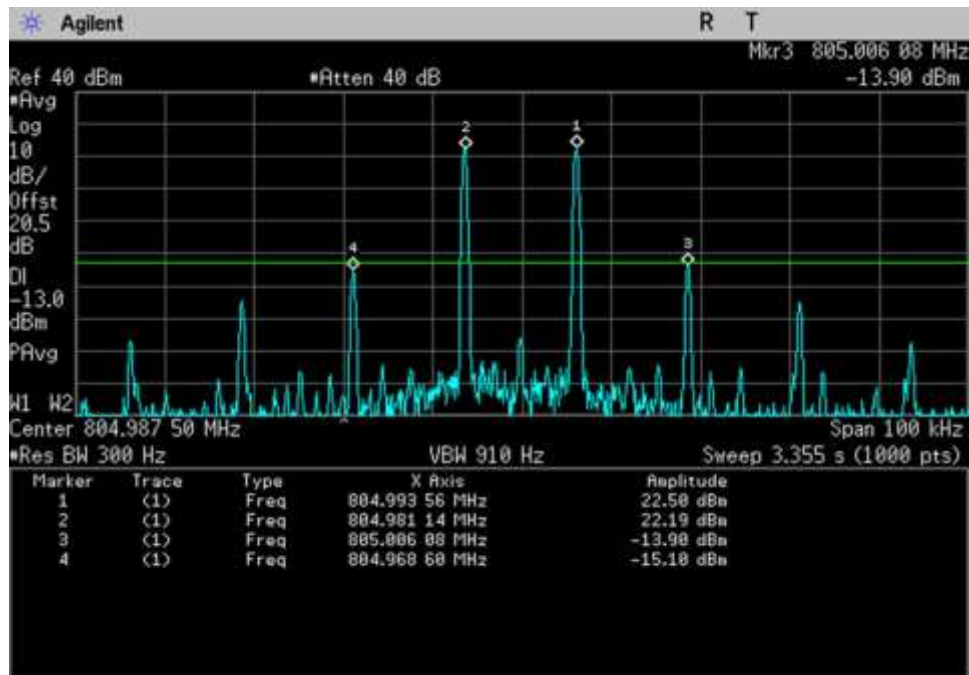




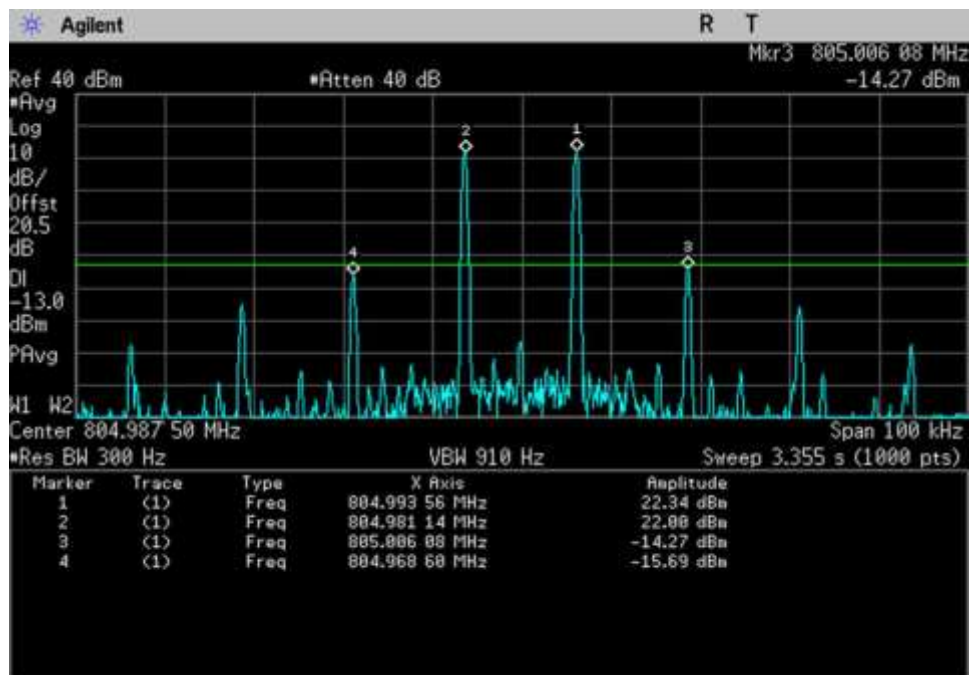
Intermodulation_UL_788-798-LC-AGC_788.015625MHz_12.5kHz



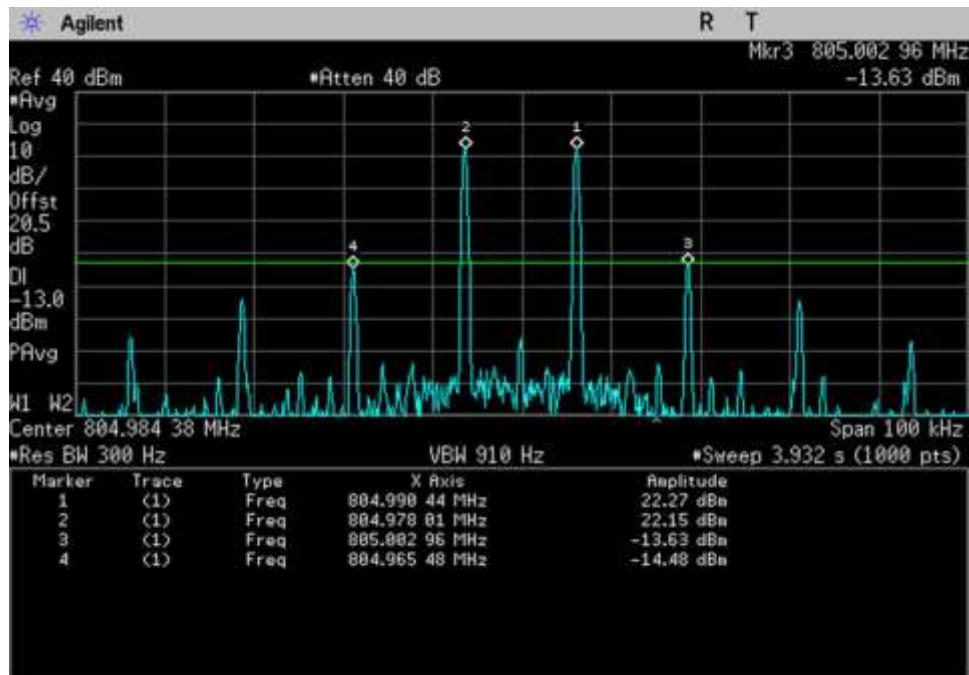
Intermodulation_UL_788-798-LC-AGC+3_788.015625MHz_12.5kHz



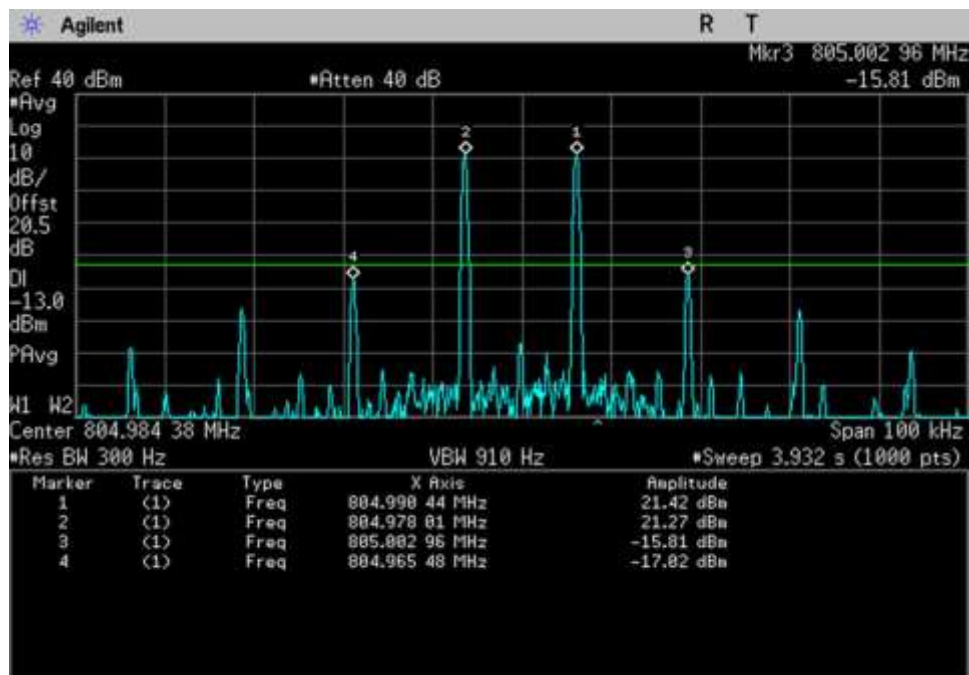
Intermodulation_UL_799-805-F0-AGC_804.9875MHz_12.5kHz



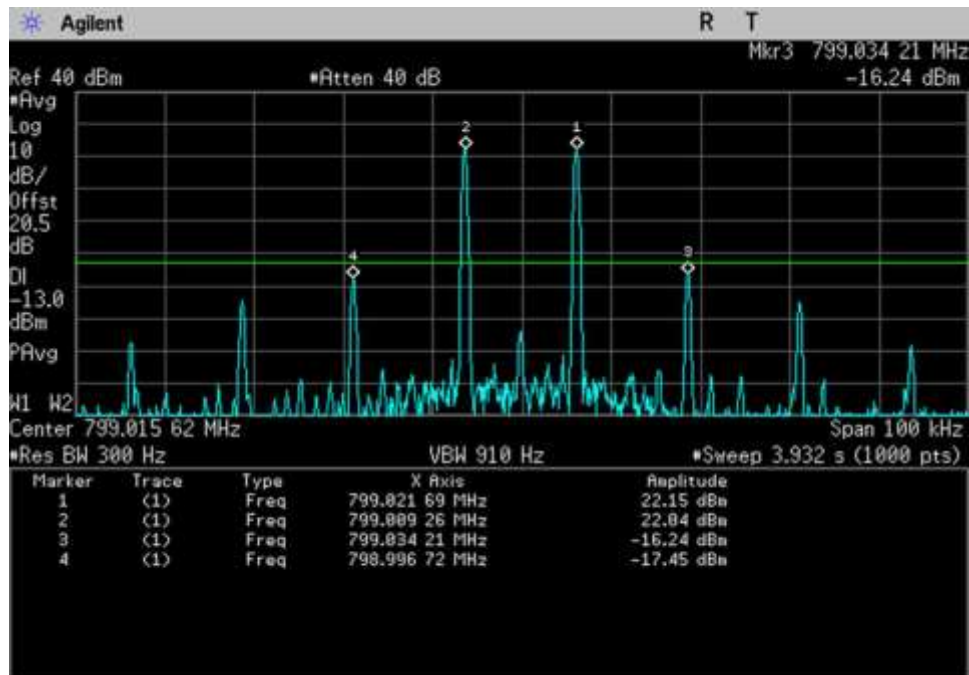
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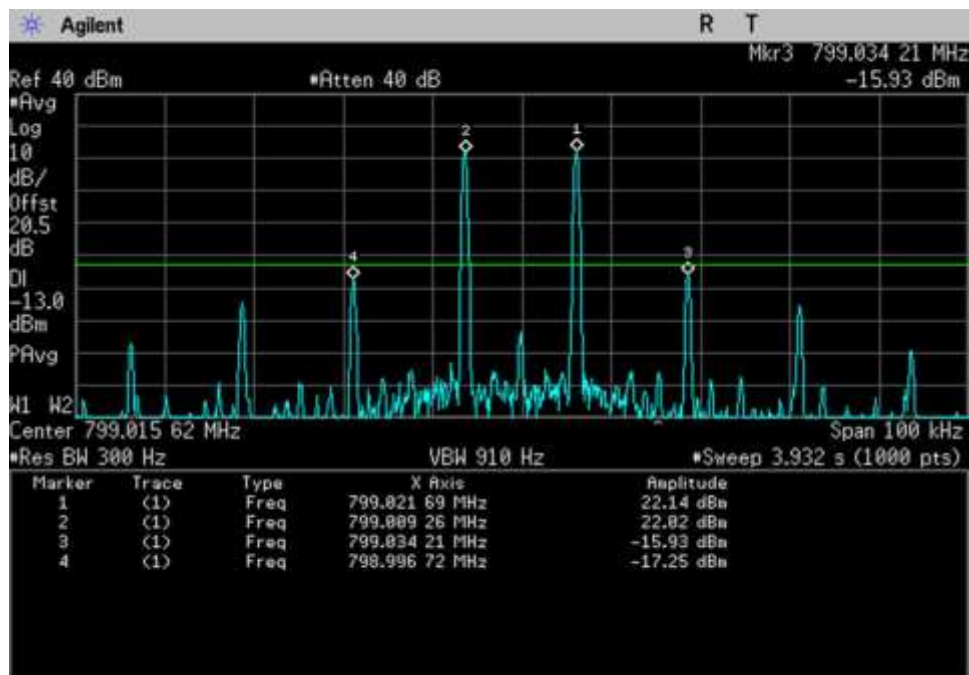
Intermodulation_UL_799-805-HC-AGC_ 804.984375MHz_12.5kHz



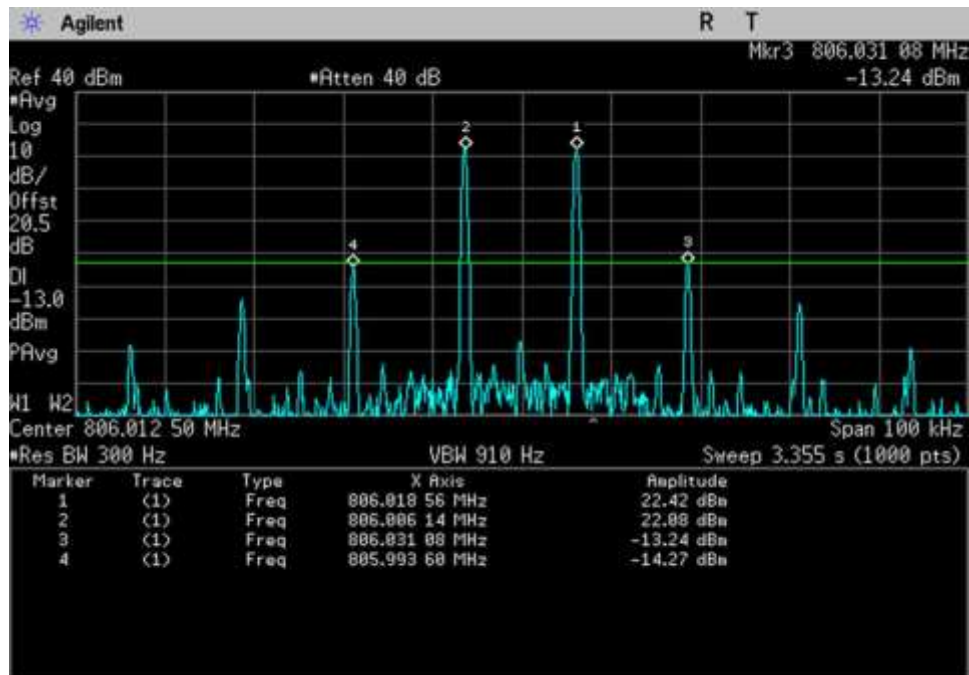
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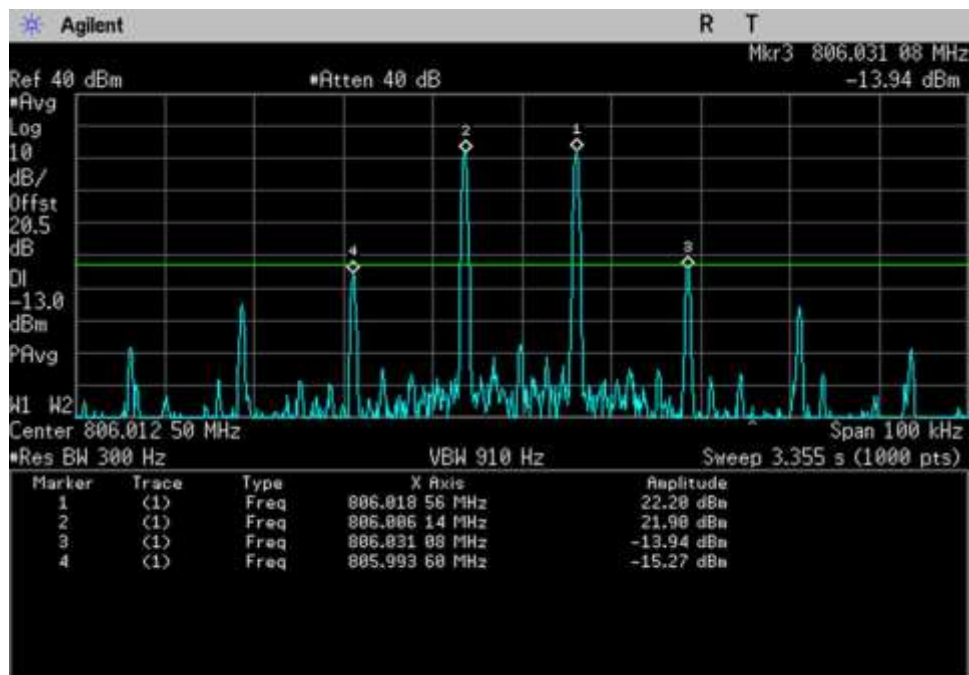
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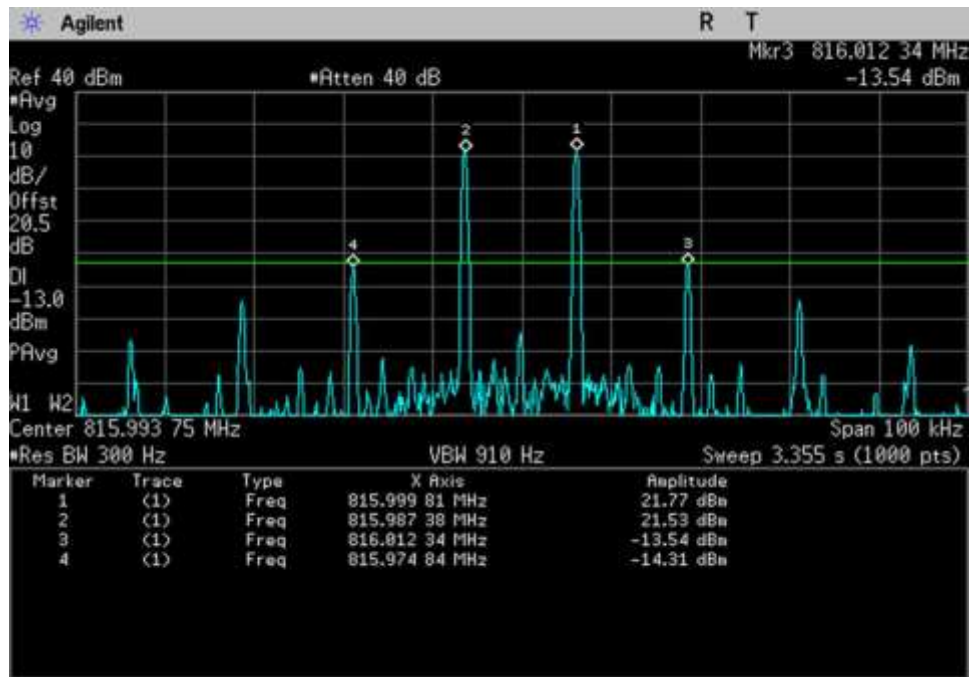
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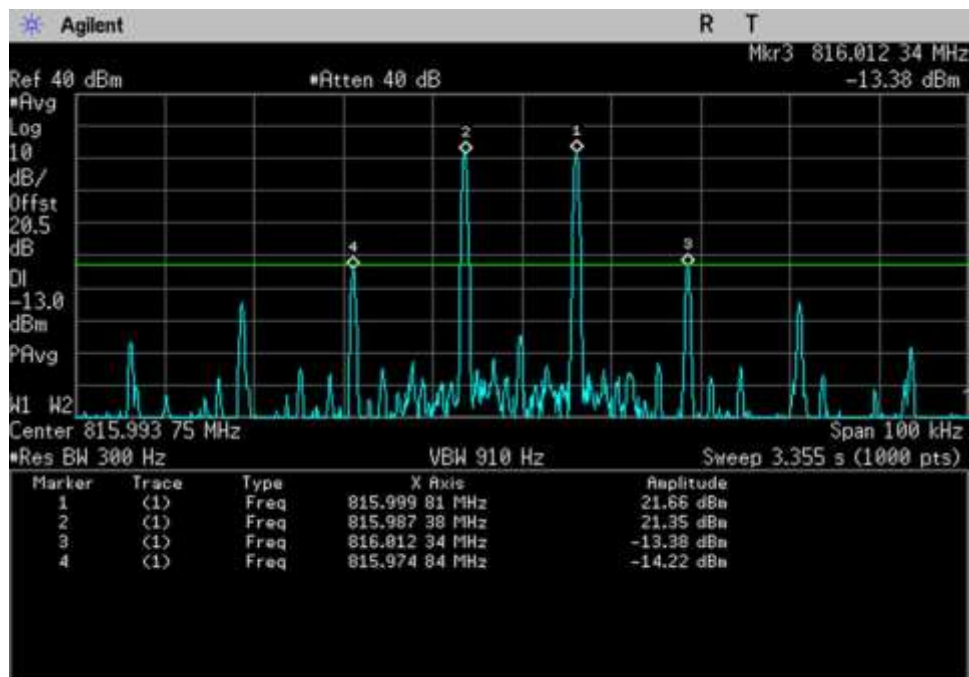
Intermodulation_UL_806-816-F0-AGC_806.0125MHz_12.5kHz



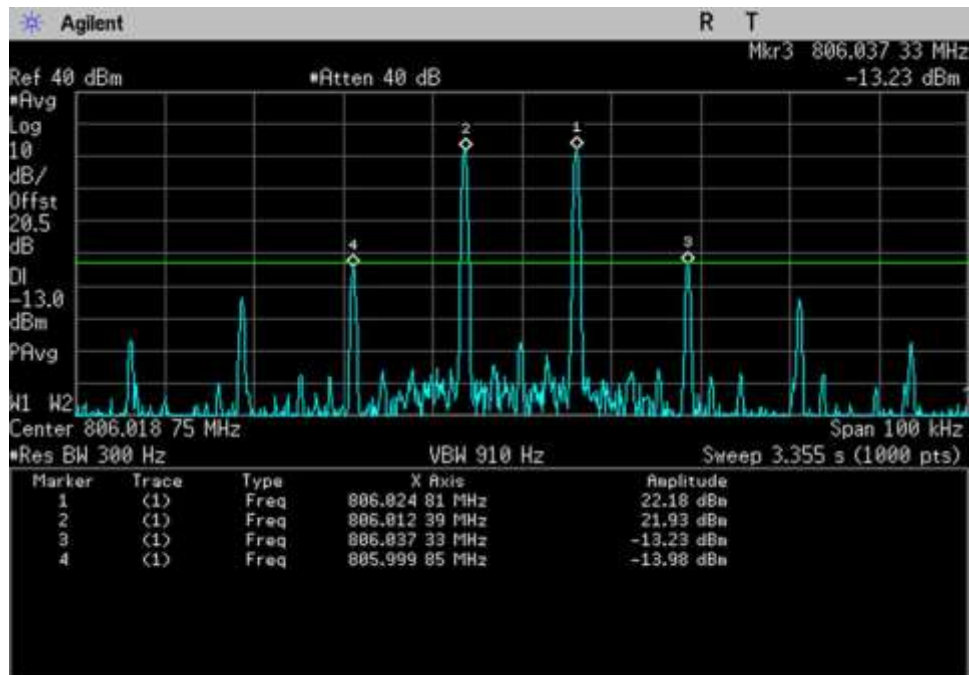
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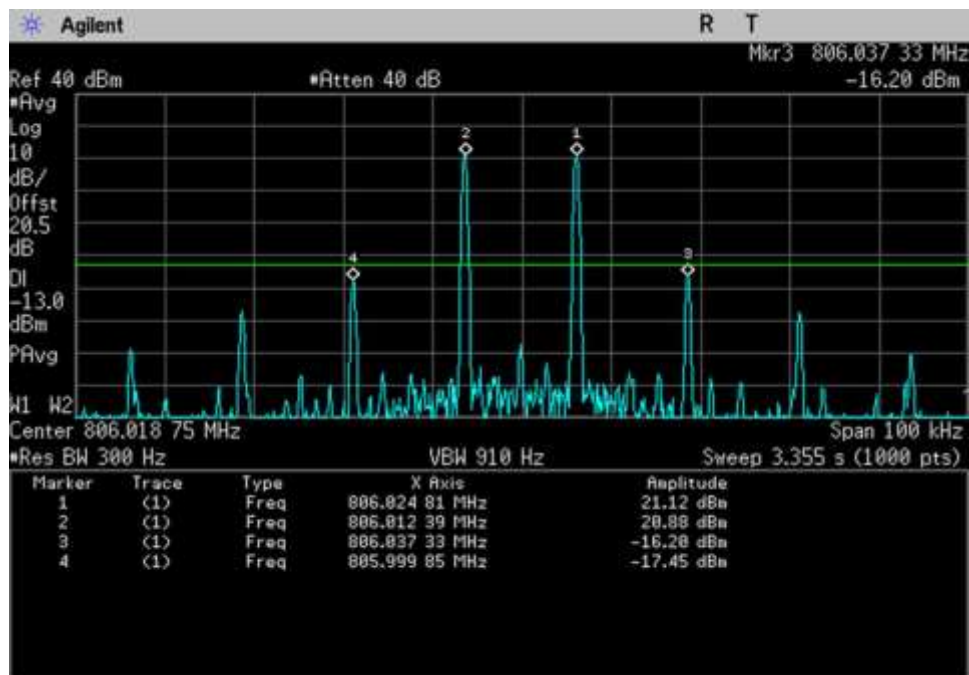
Intermodulation_UL_806-816-HC-ACG_815.99375MHz_12.5kHz



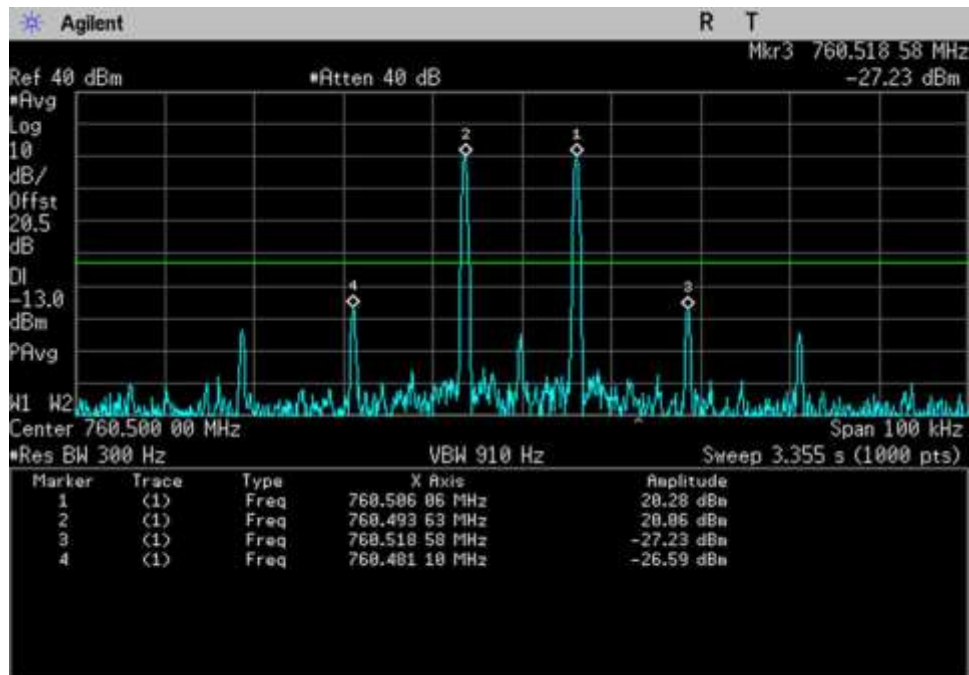
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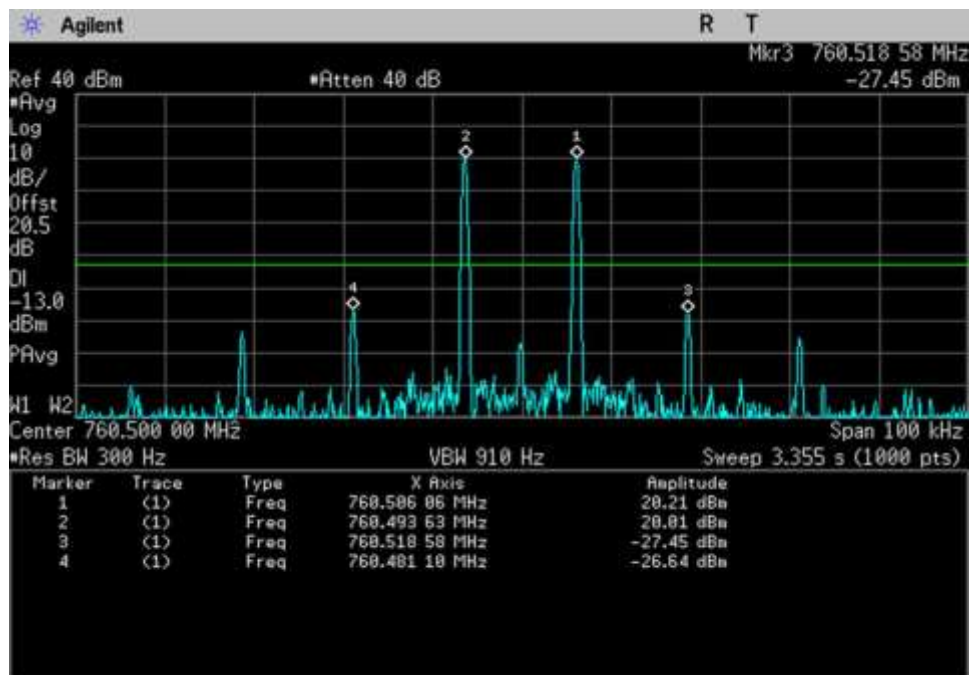
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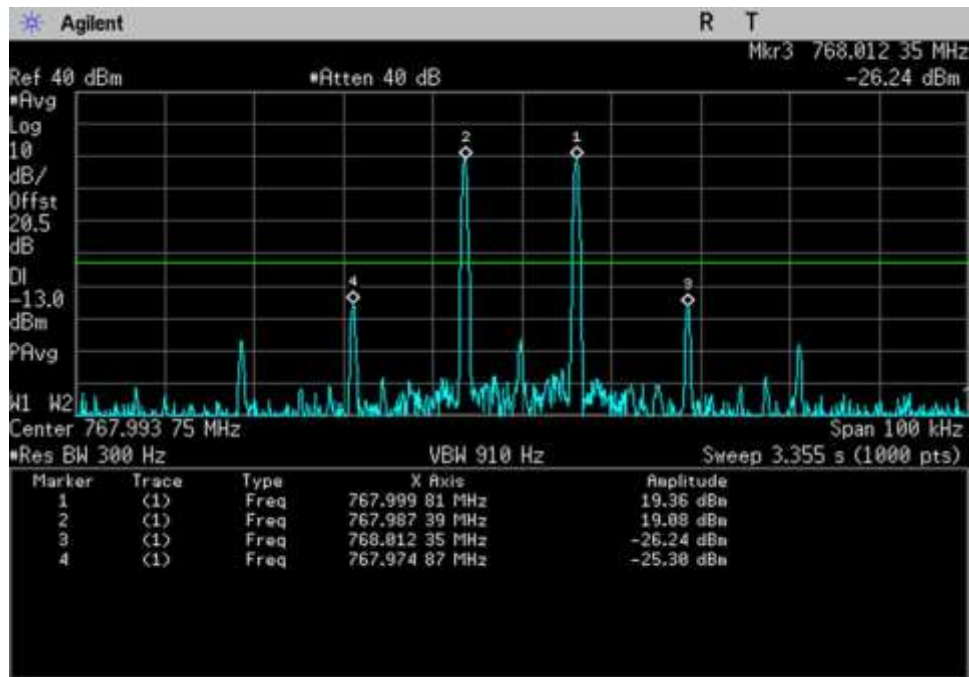
Intermodulation_UL_806-816-LC-ACG+3_806.01875MHz_12.5kHz



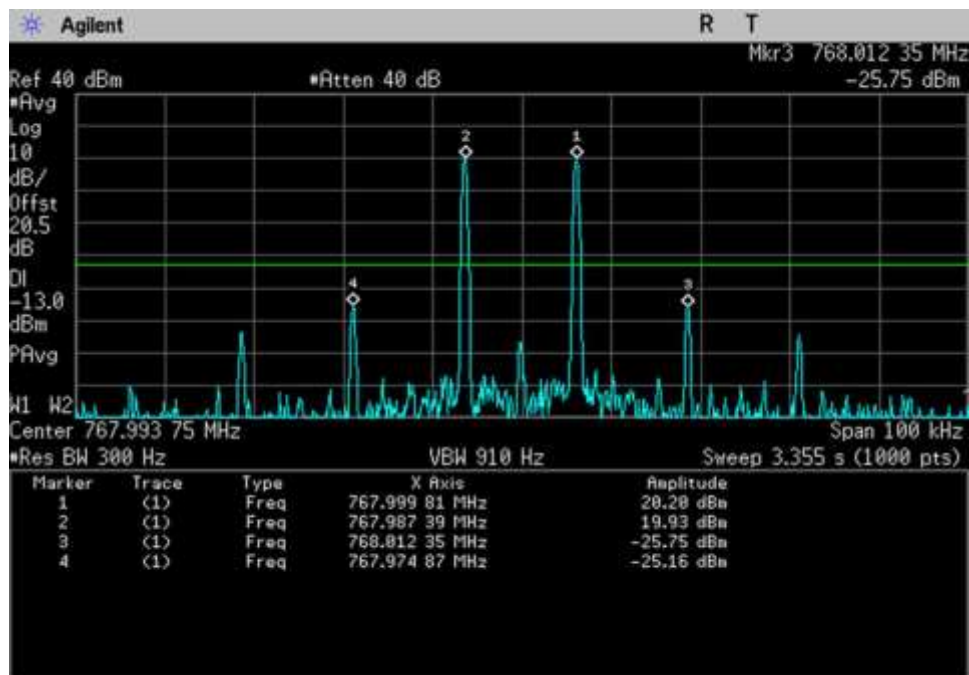
Intermodulation_DL_758-768-F0-AGC_760.5MHz_12.5kHz



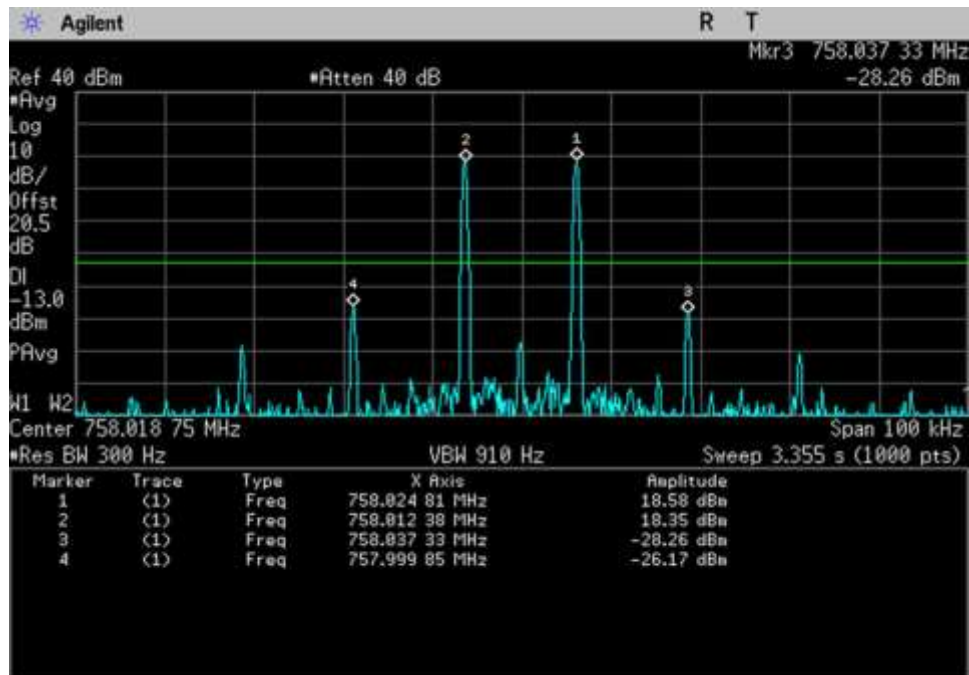
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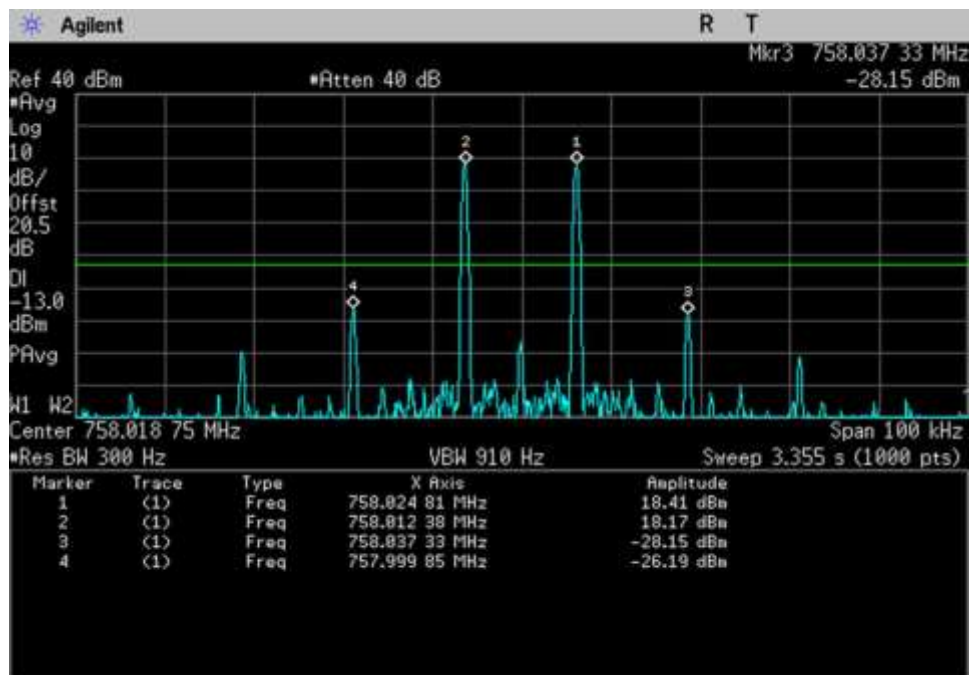
Intermodulation_DL_758-768-HC-AGC_767.99375MHz_12.5kHz



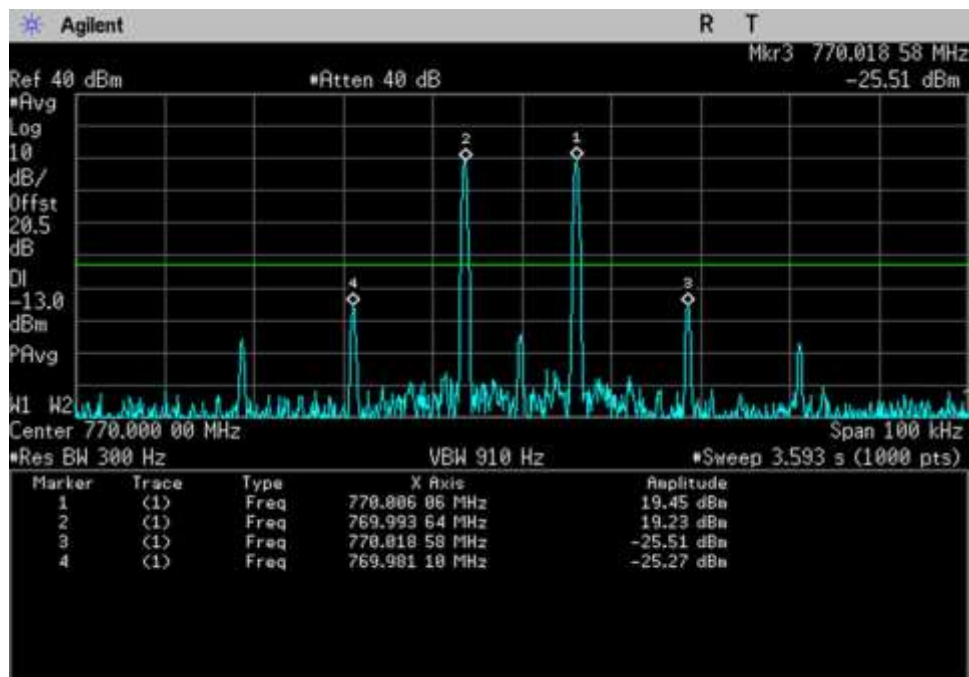
Intermodulation_DL_758-768-HC-AGC+3_767.99375MHz_12.5kHz



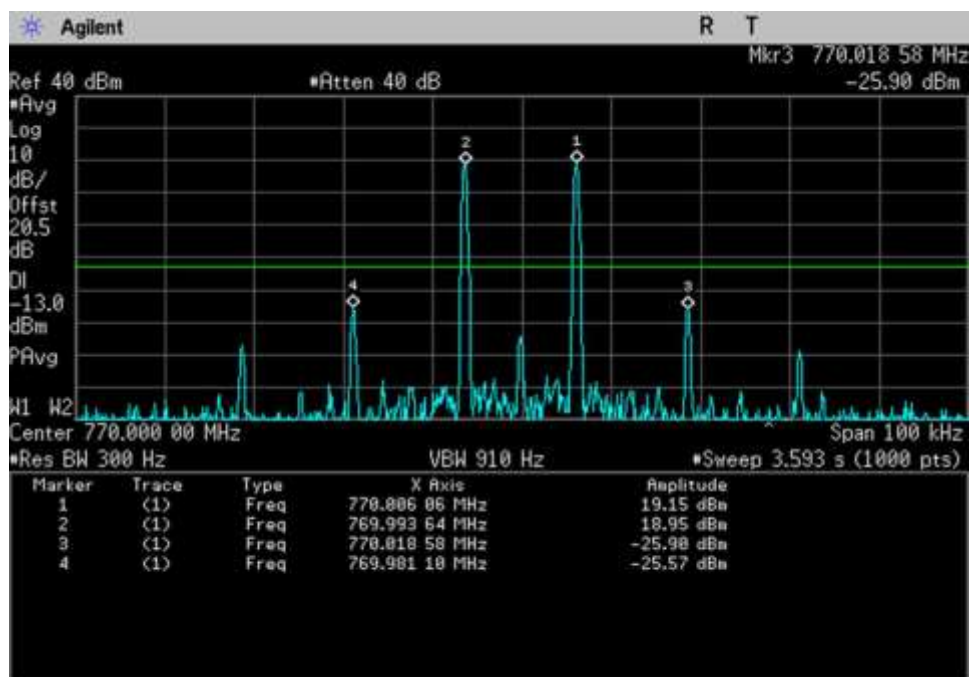
Intermodulation_DL_758-768-LC-AGC_758.01875MHz_12.5kHz



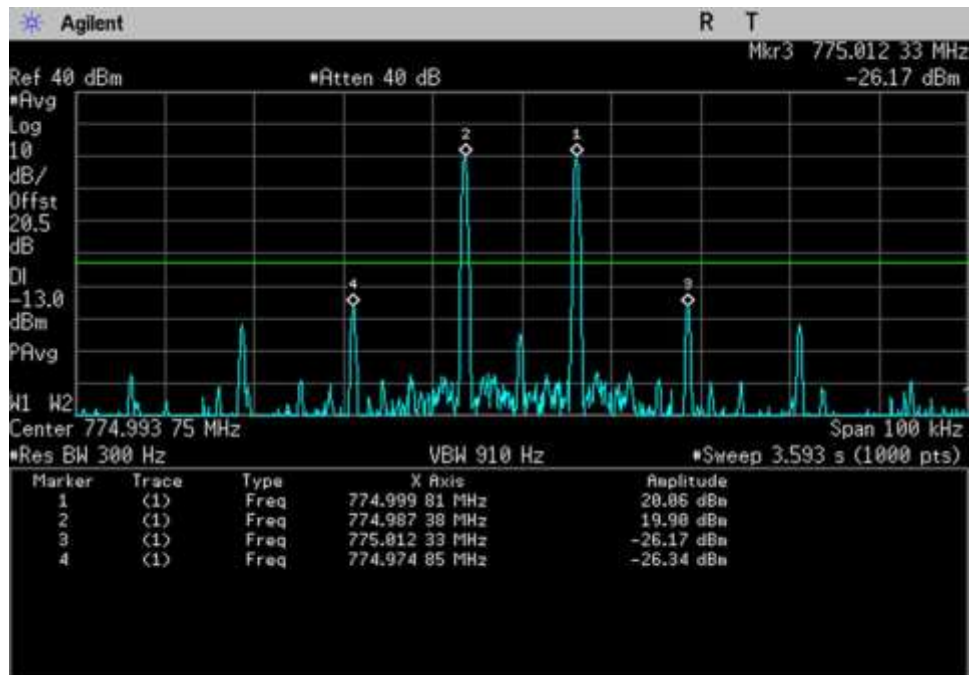
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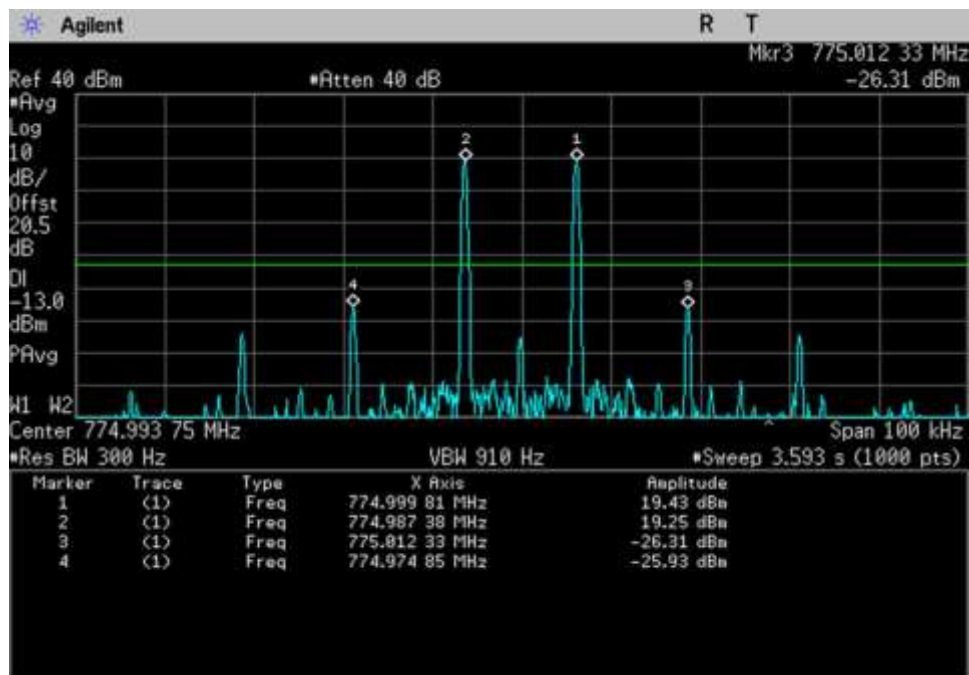
Intermodulation_DL_769-775-F0-AGC_770MHz_12.5kHz



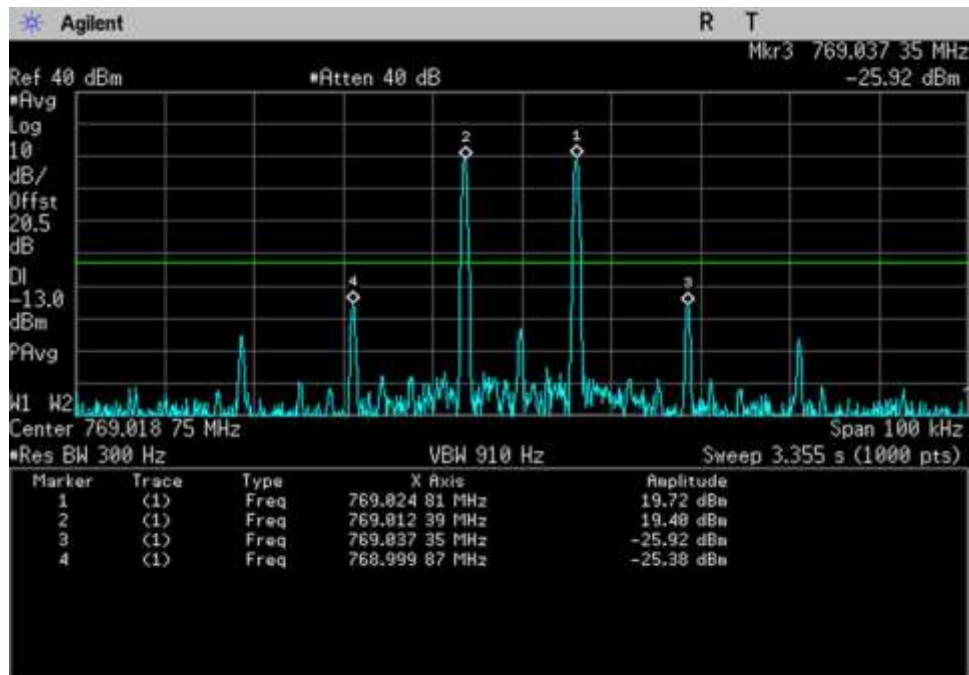
Intermodulation_DL_769-775-F0-AGC+3_770MHz_12.5kHz



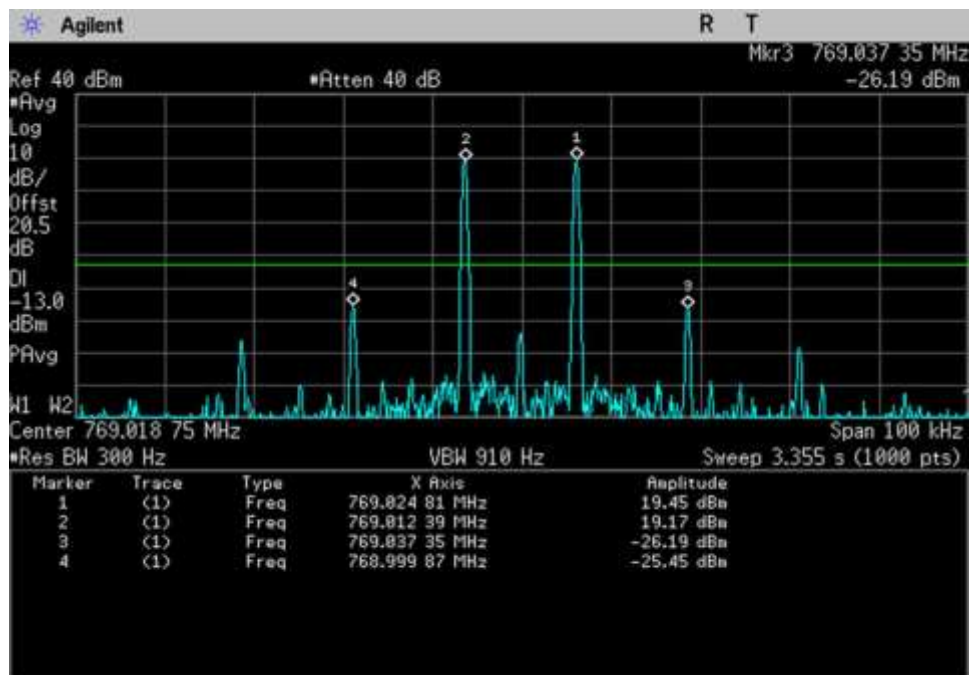
Intermodulation_DL_769-775-HC-AGC_774.99375MHz_12.5kHz



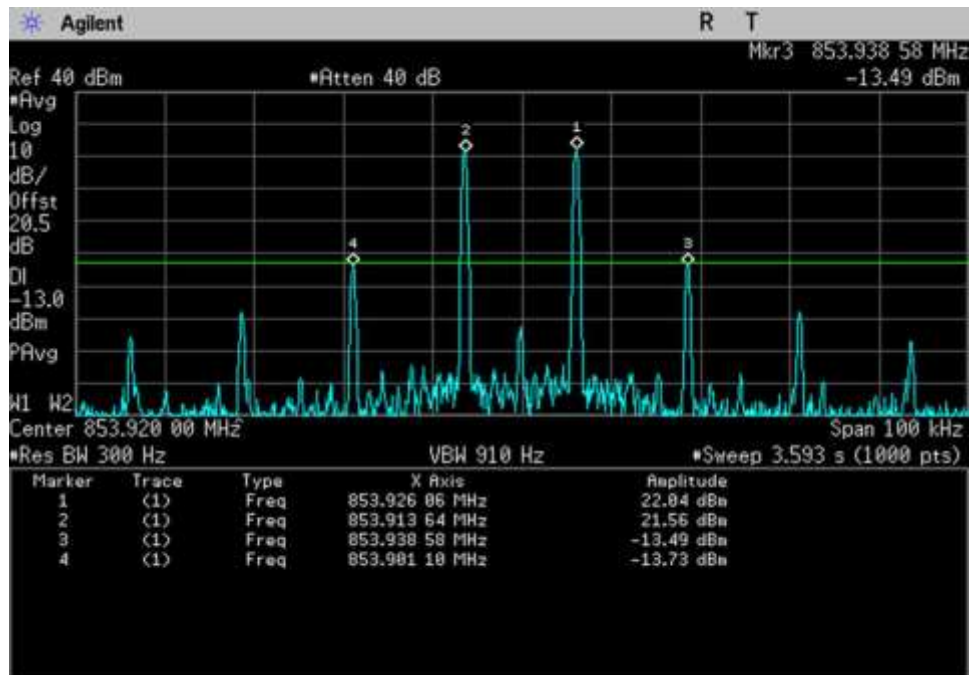
Intermodulation_DL_769-775-HC-AGC+3_774.99375MHz_12.5kHz



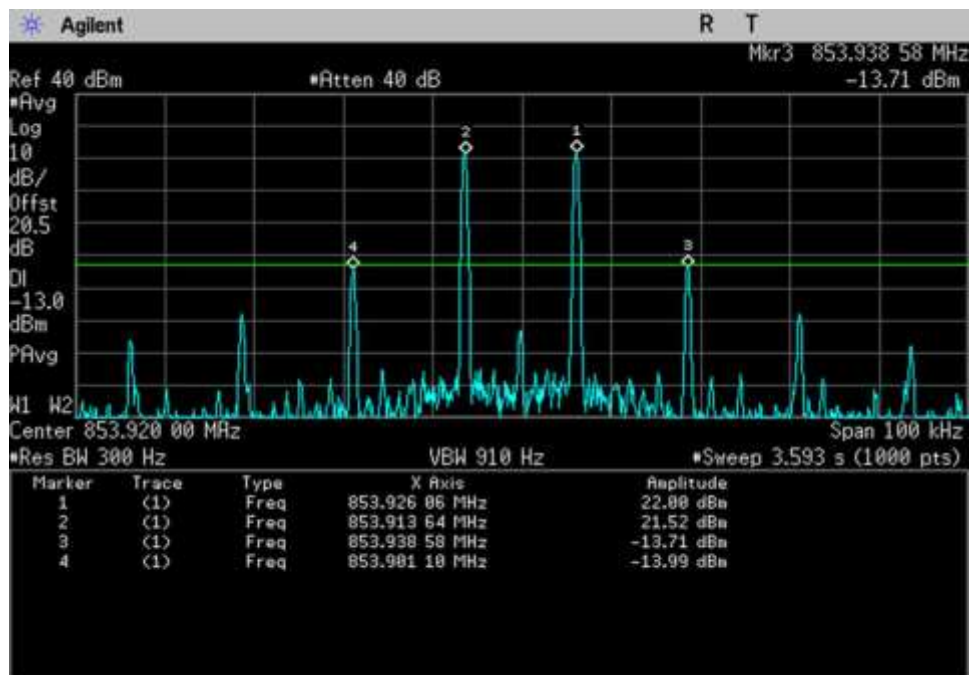
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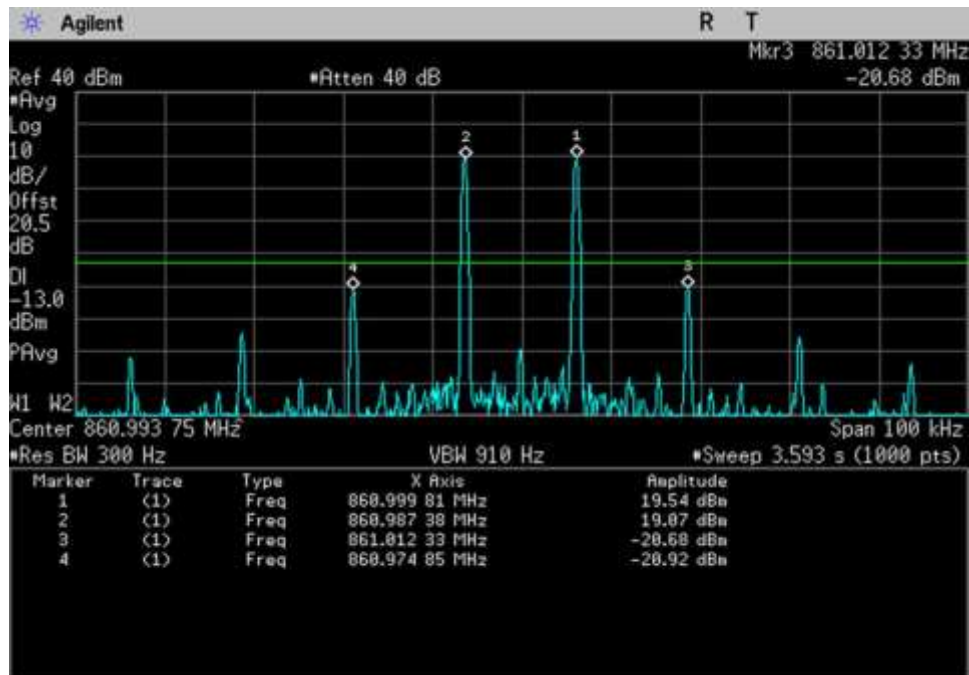
Intermodulation_DL_769-775-LC-AGC+3_769.01875MHz_12.5kHz



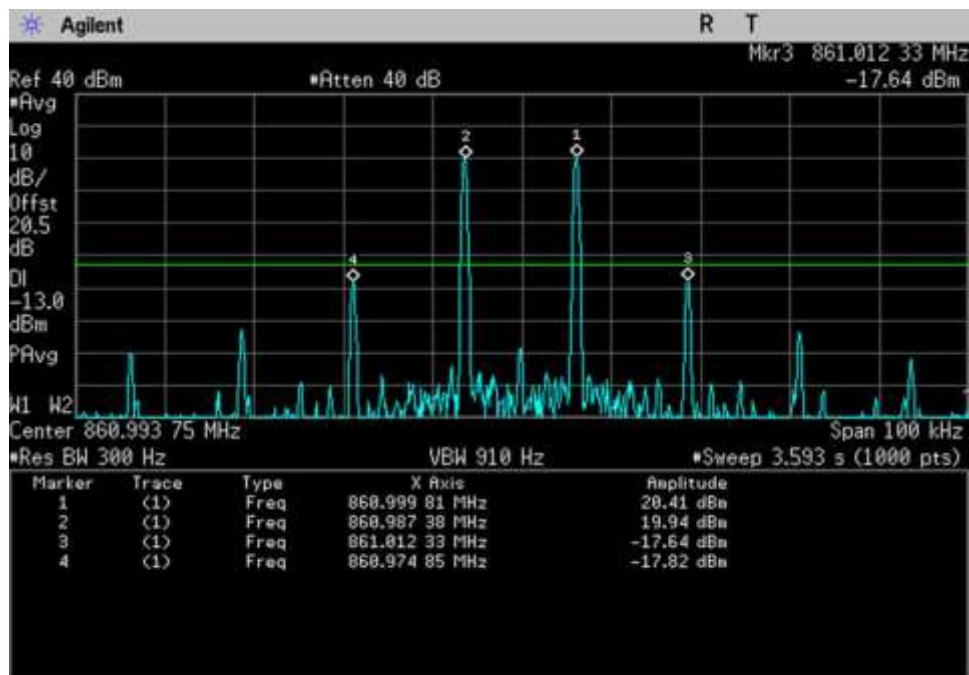
Intermodulation_DL_851-861-F0-AGC_853.92MHz_12.5kHz



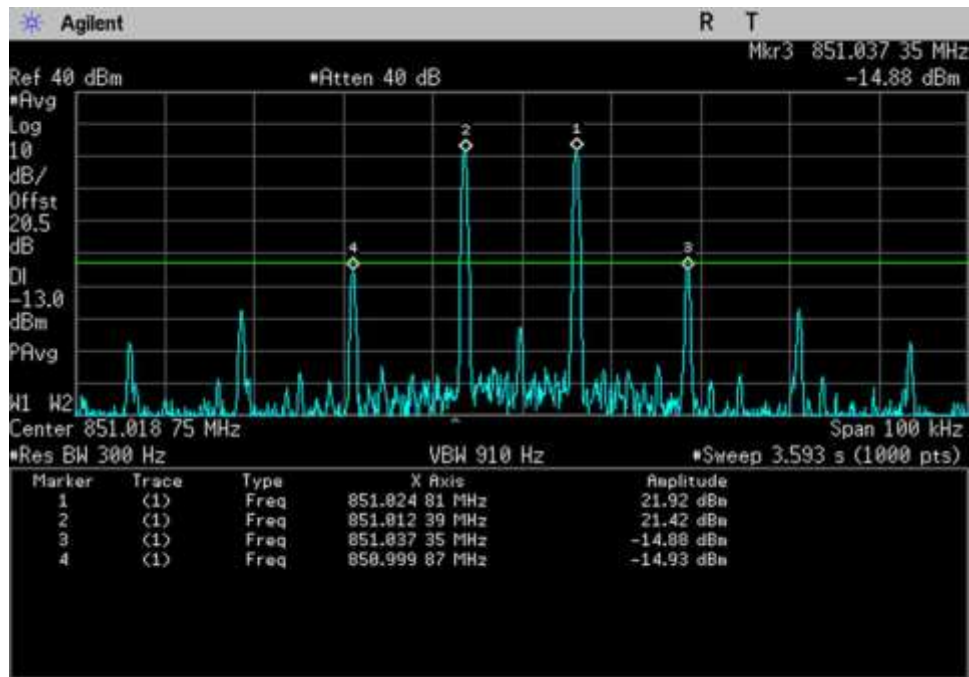
Intermodulation_DL_851-861-F0-AGC+3_853.92MHz_12.5kHz



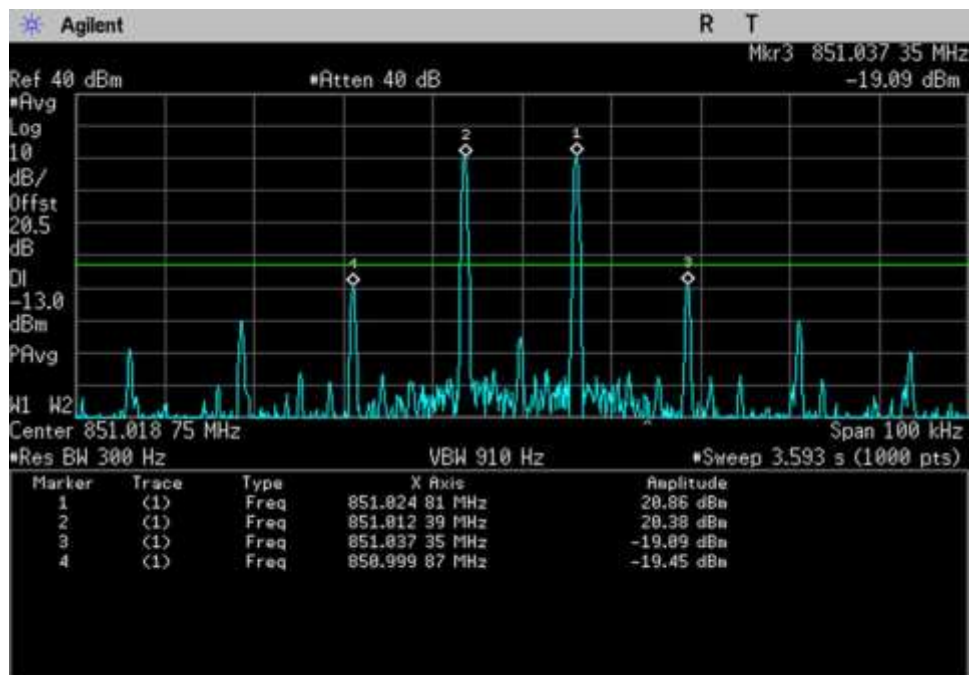
Intermodulation_DL_851-861-HC-AGC_860.99375MHz_12.5kHz



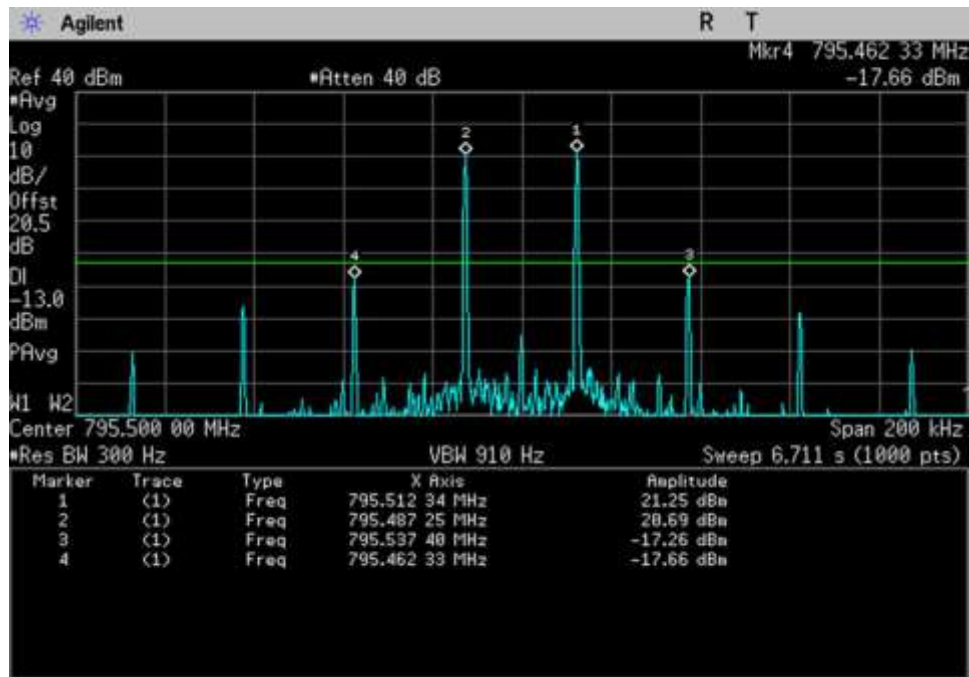
Intermodulation_DL_851-861-HC-AGC+3_860.99375MHz_12.5kHz



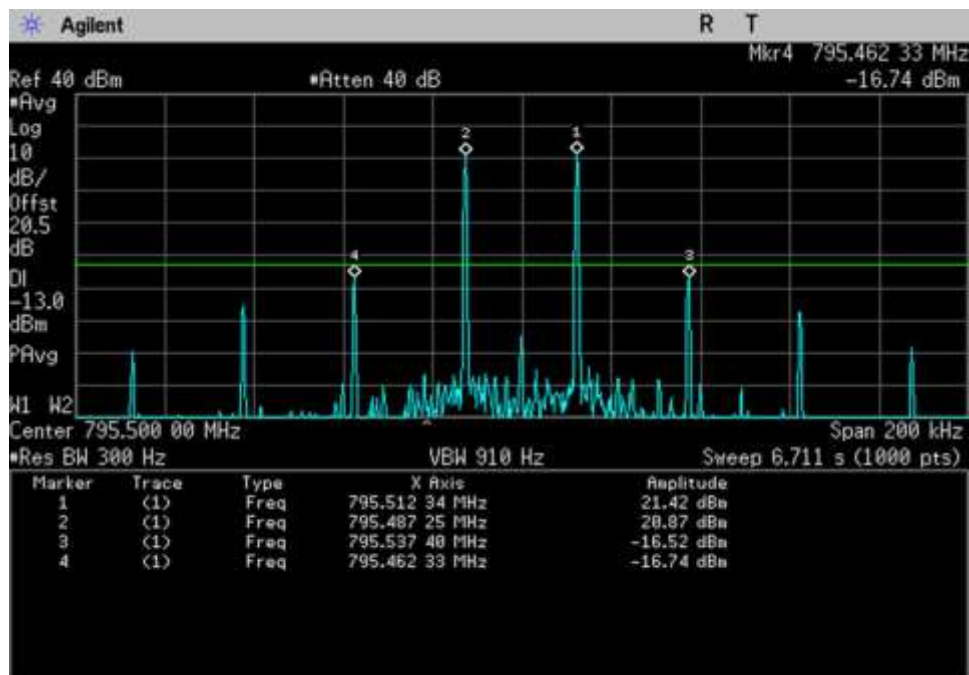
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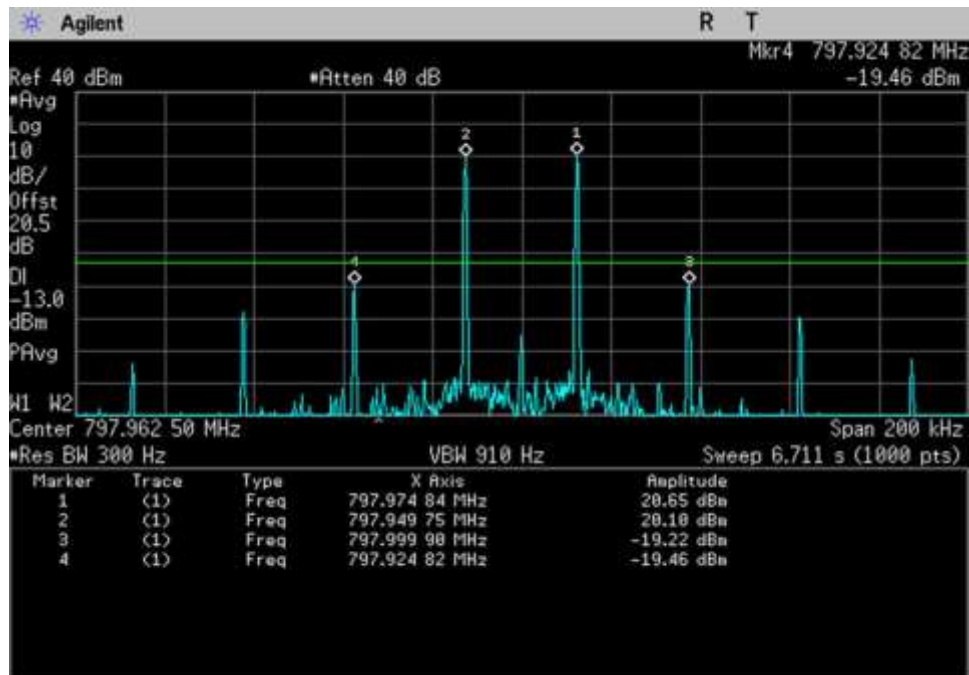
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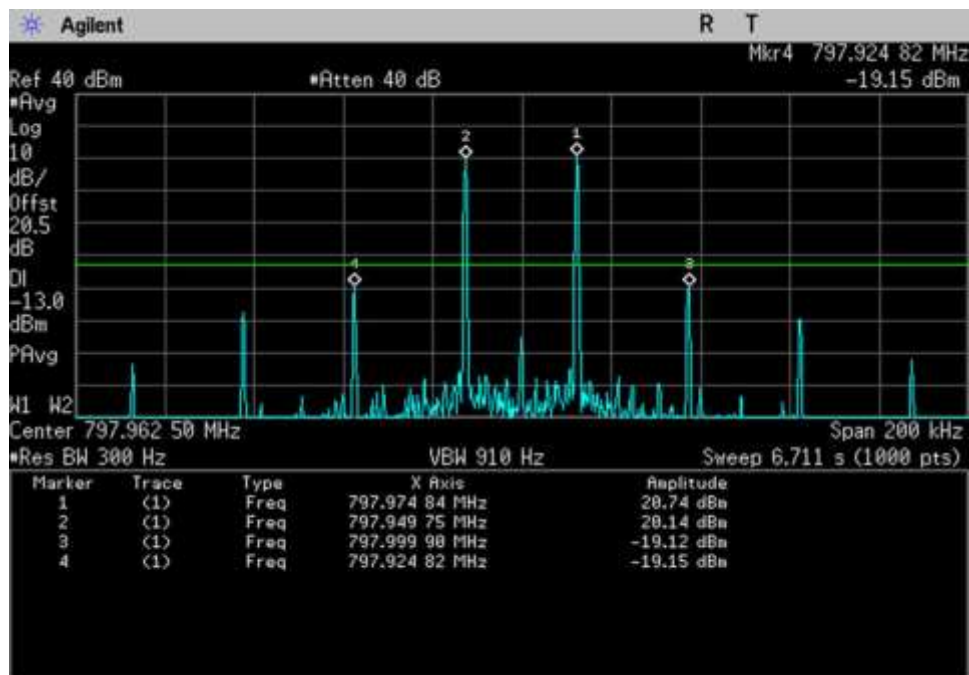
Intermodulation _UL_788-798-F0-AGC_795.5MHz_25kHz



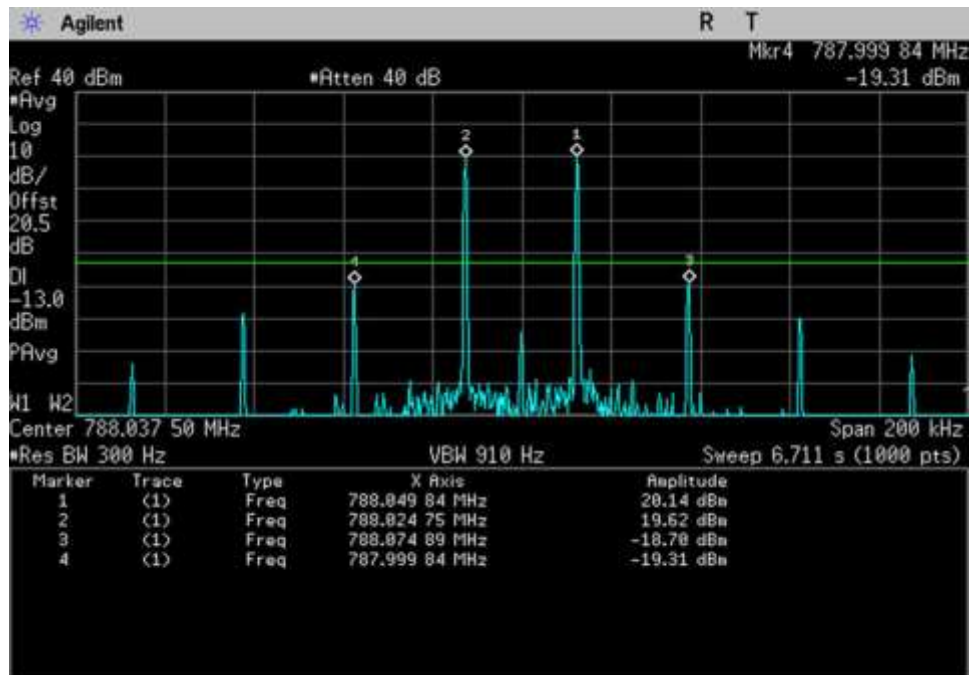
Intermodulation _UL_788-798-F0-AGC+3_795.5MHz_25kHz



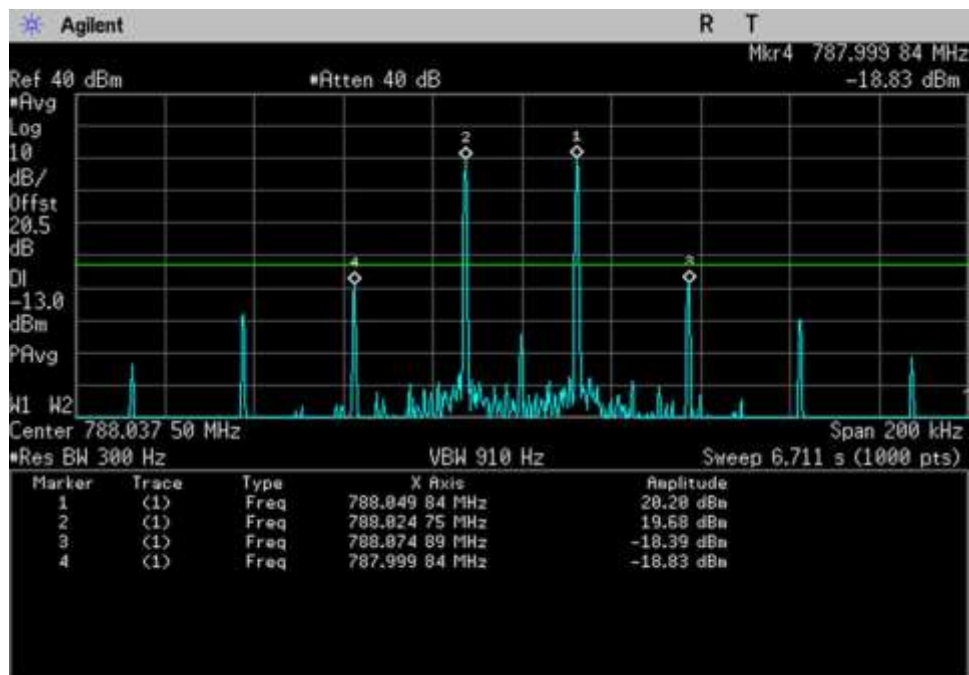
Intermodulation_UL_788-798-HC-AGC_797.9625MHz_25kHz



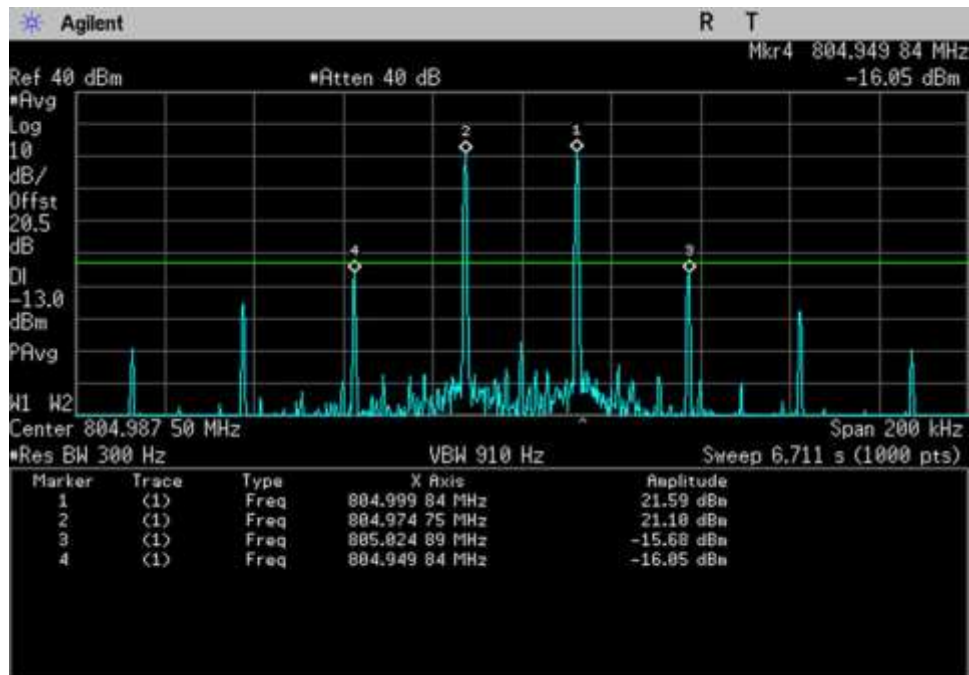
Intermodulation_UL_788-798-HC-AGC+3_797.9625MHz_25kHz



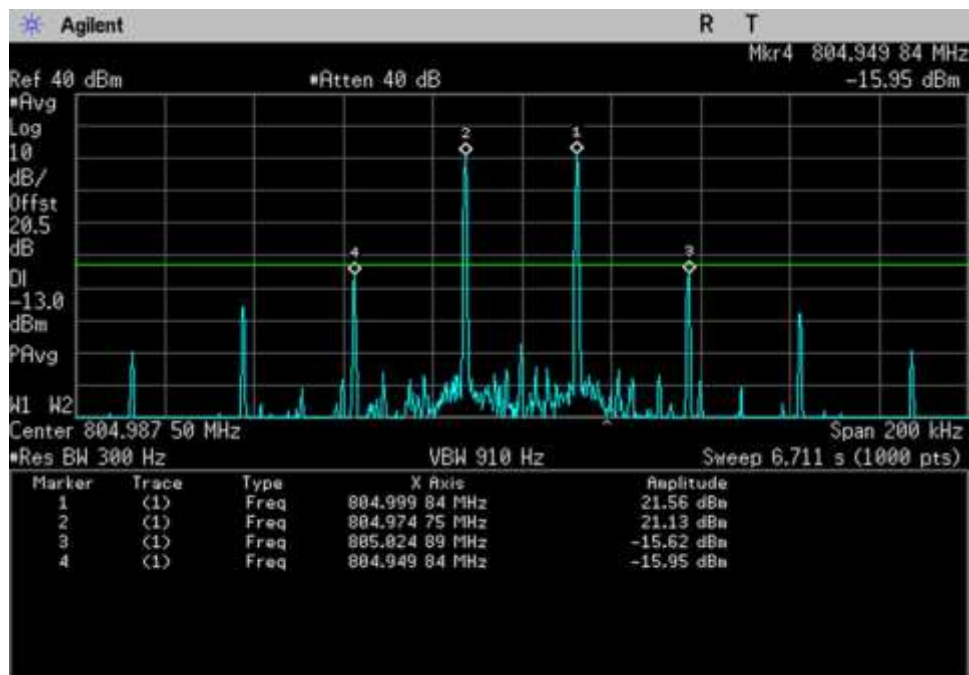
Intermodulation _UL_788-798-LC-AGC_ 788.0375MHz_25kHz



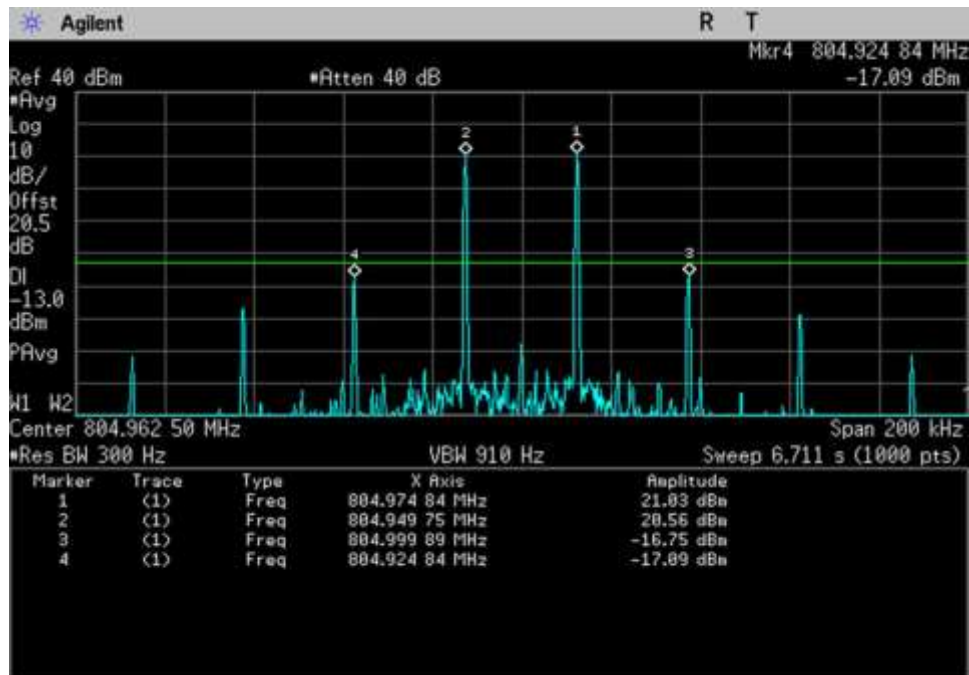
Intermodulation _UL_788-798-LC-AGC+3_ 788.0375MHz_25kHz



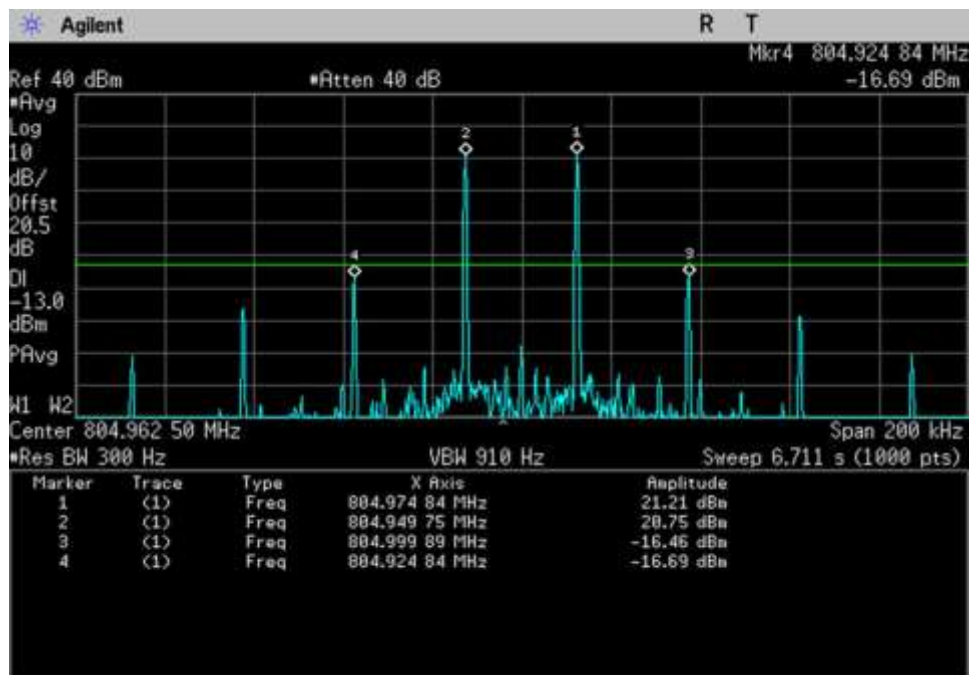
Intermodulation_UL_799-805-F0-AGC_804.9875MHz_25kHz



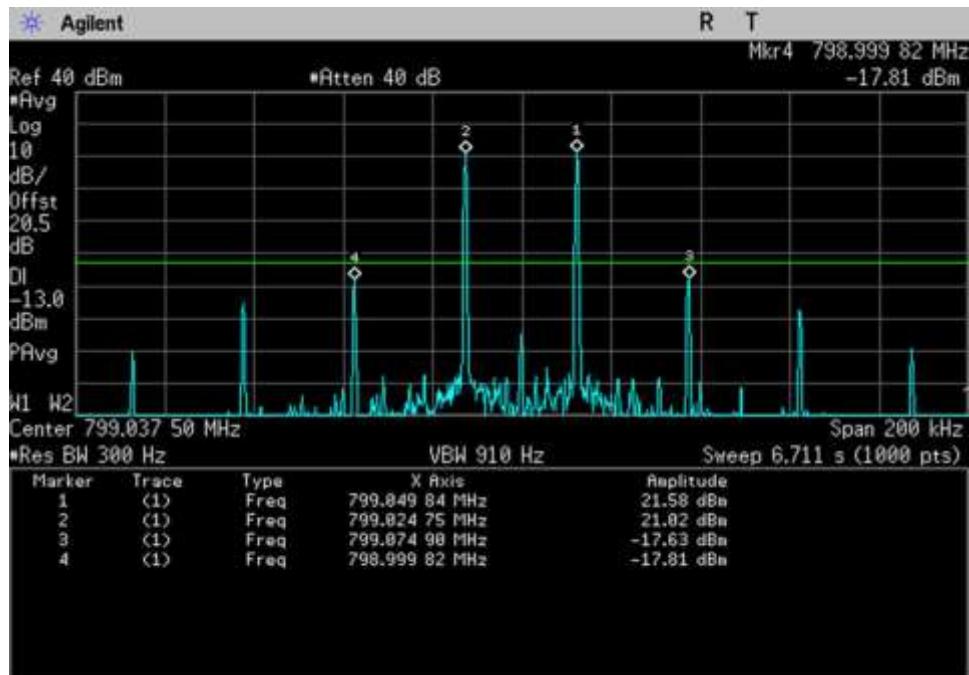
Intermodulation_UL_799-805-F0-AGC+3_804.9875MHz_25kHz



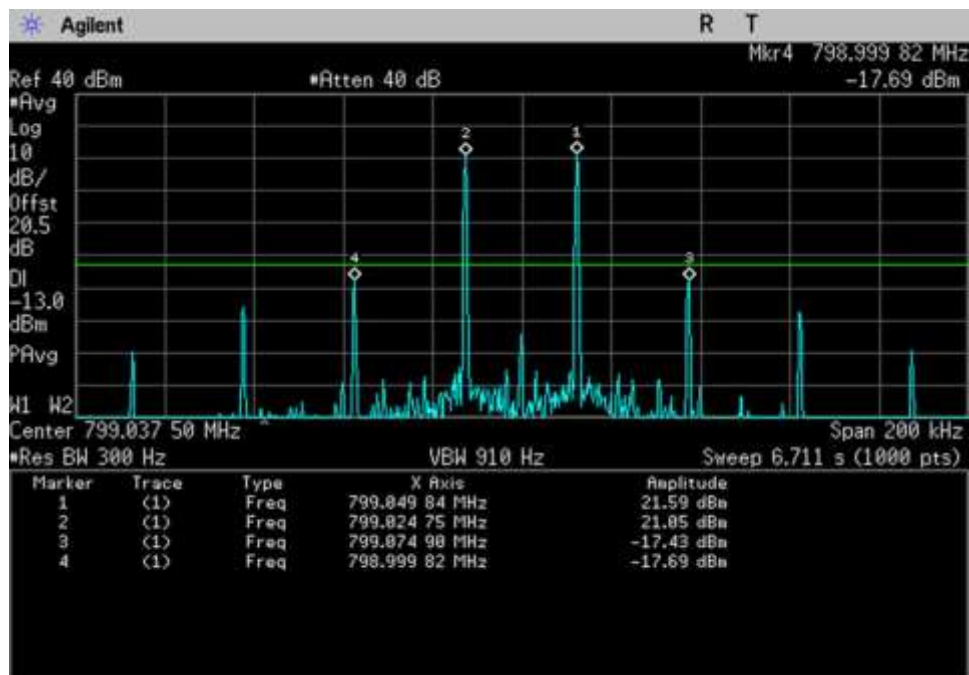
Intermodulation_UL_799-805-HC-AGC_804.9625MHz_25kHz



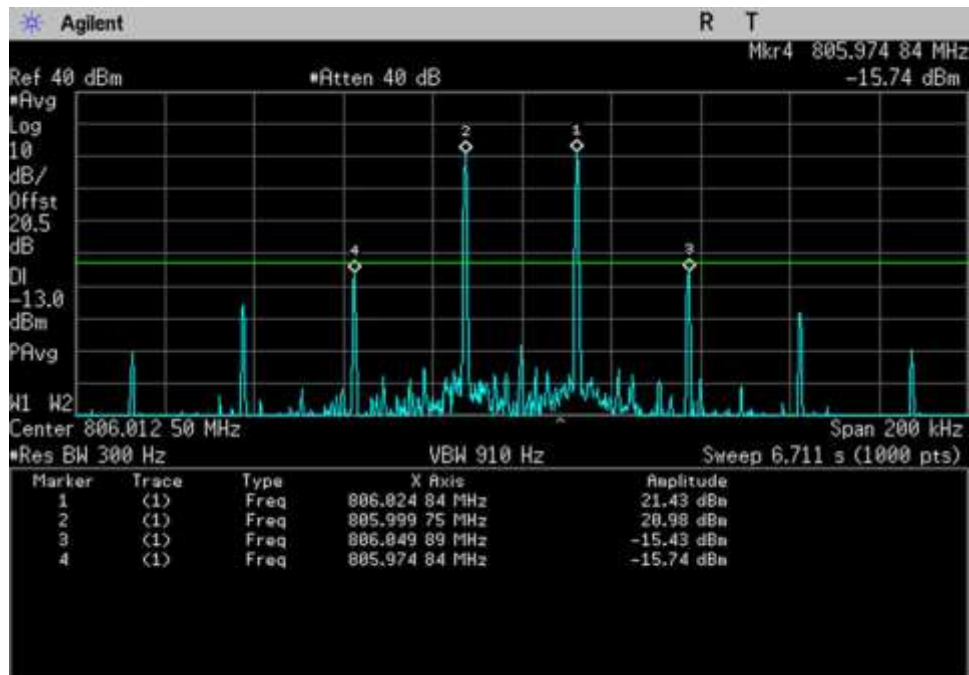
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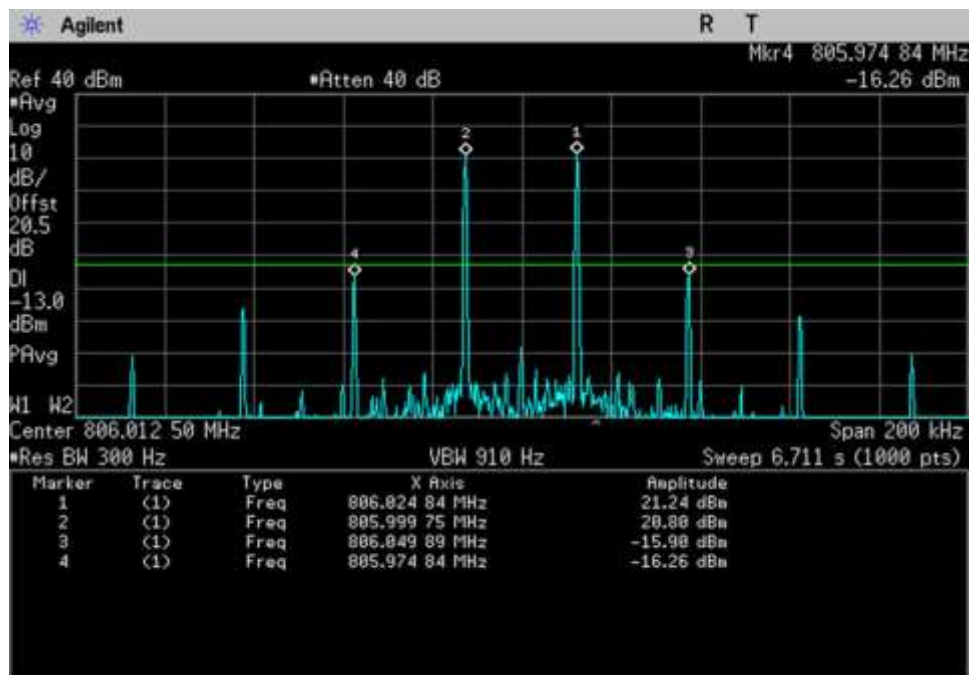
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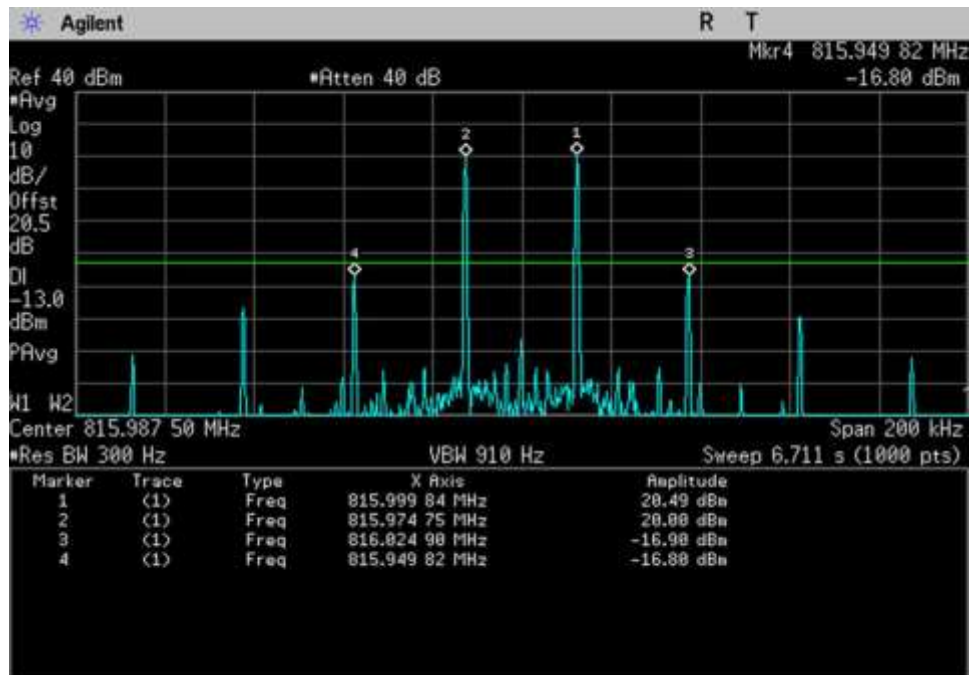
Intermodulation_UL_799-805-LC-AGC+3_799.0375MHz_25kHz



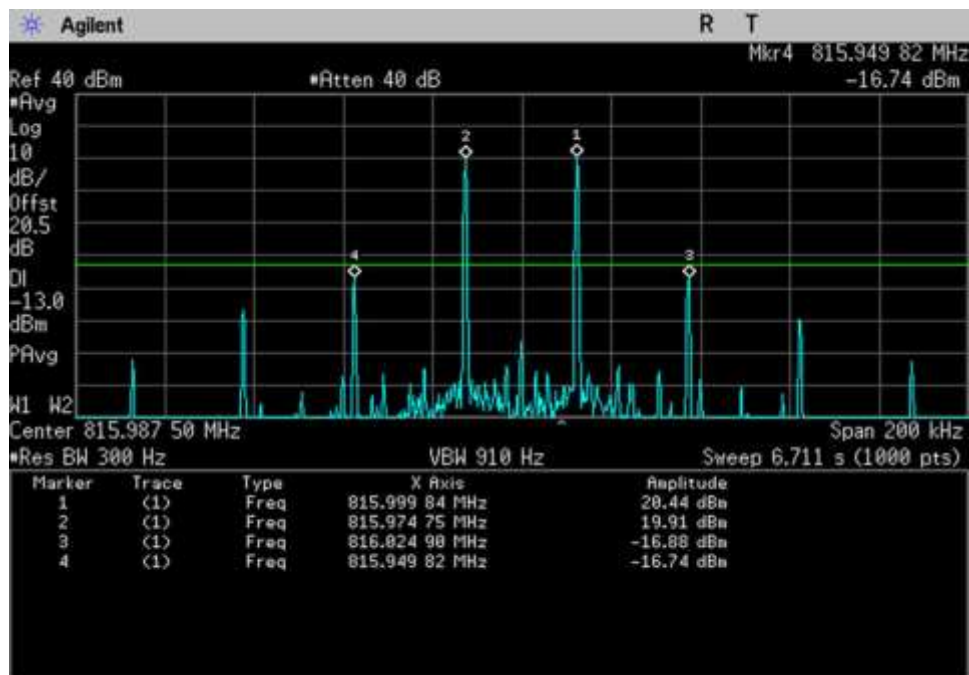
Intermodulation_UL_806-816-F0-AGC_806.0125MHz_25kHz



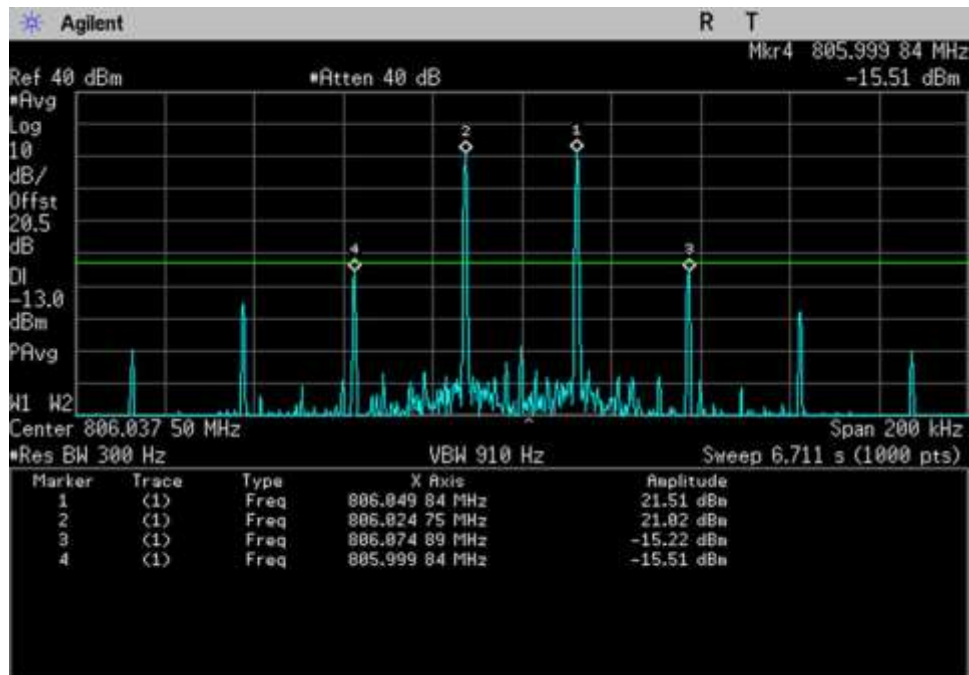
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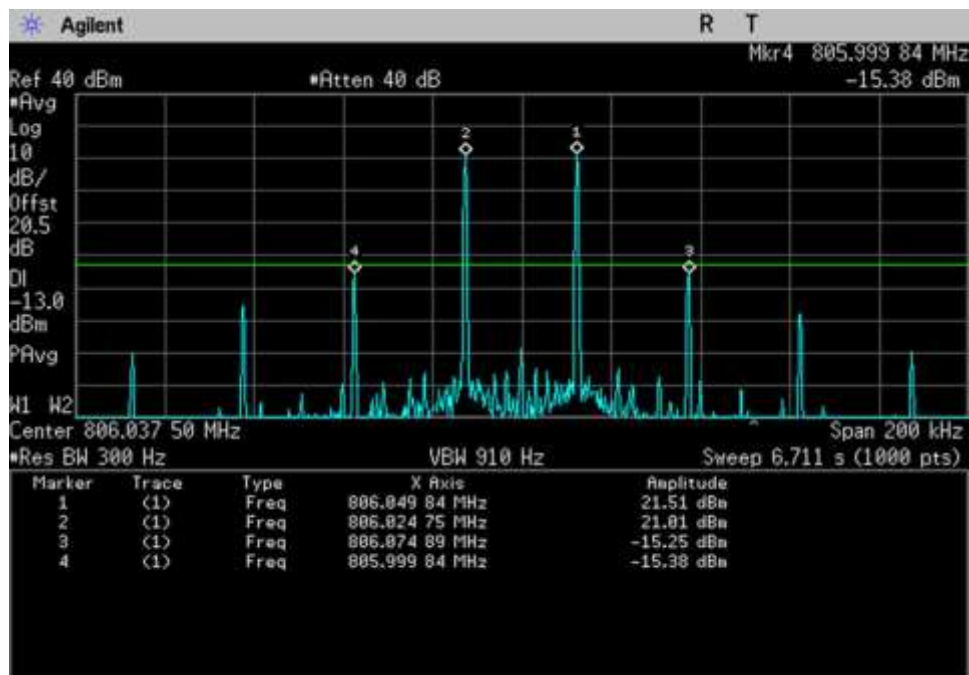
Intermodulation_UL_806-816-HC-AGC_815.9875MHz_25kHz



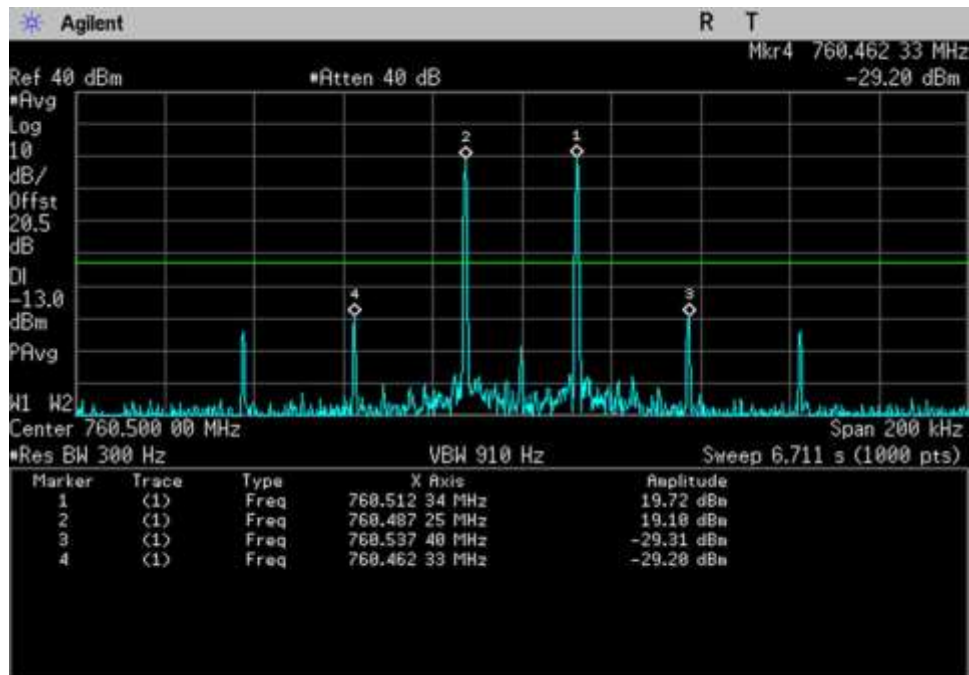
Intermodulation_UL_806-816-HC-AGC+3_815.9875MHz_25kHz



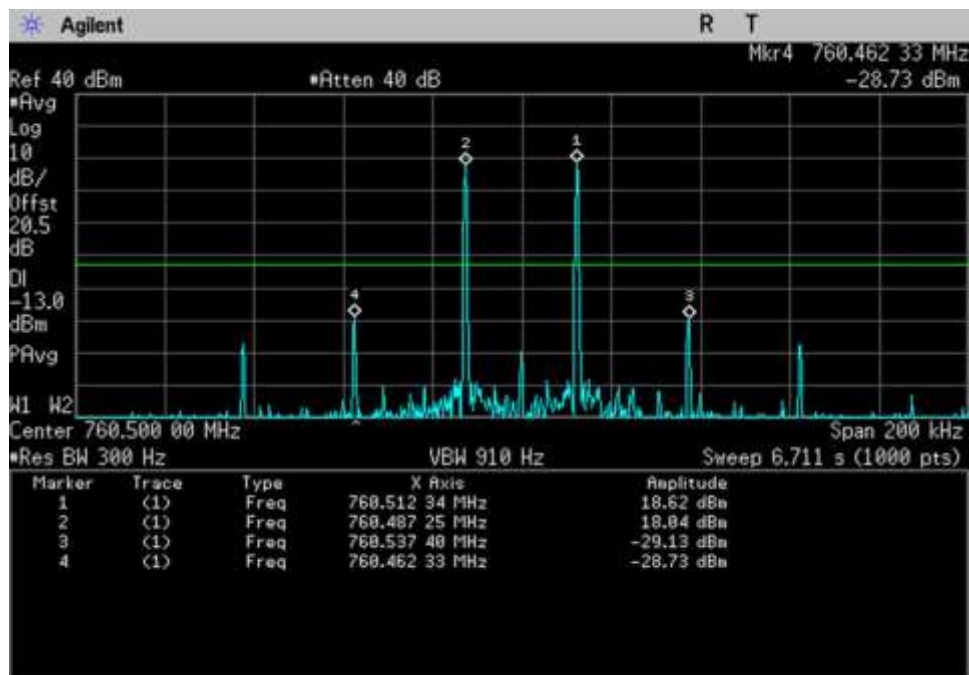
Intermodulation _UL_806-816-LC-AGC_ 806.0375MHz_25kHz



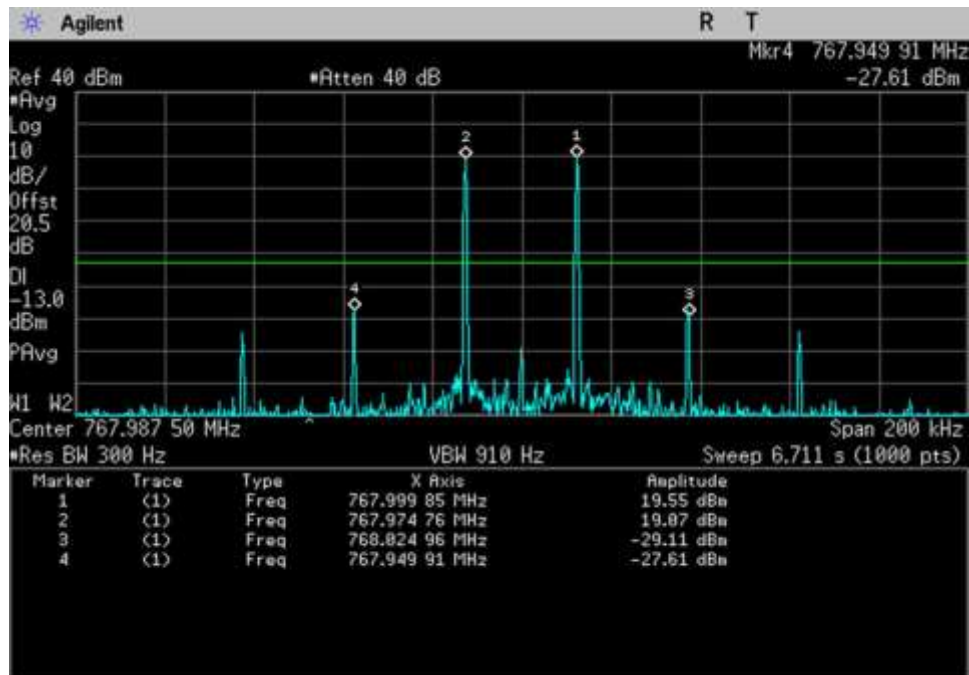
Intermodulation _UL_806-816-LC-AGC+3_ 806.0375MHz_25kHz



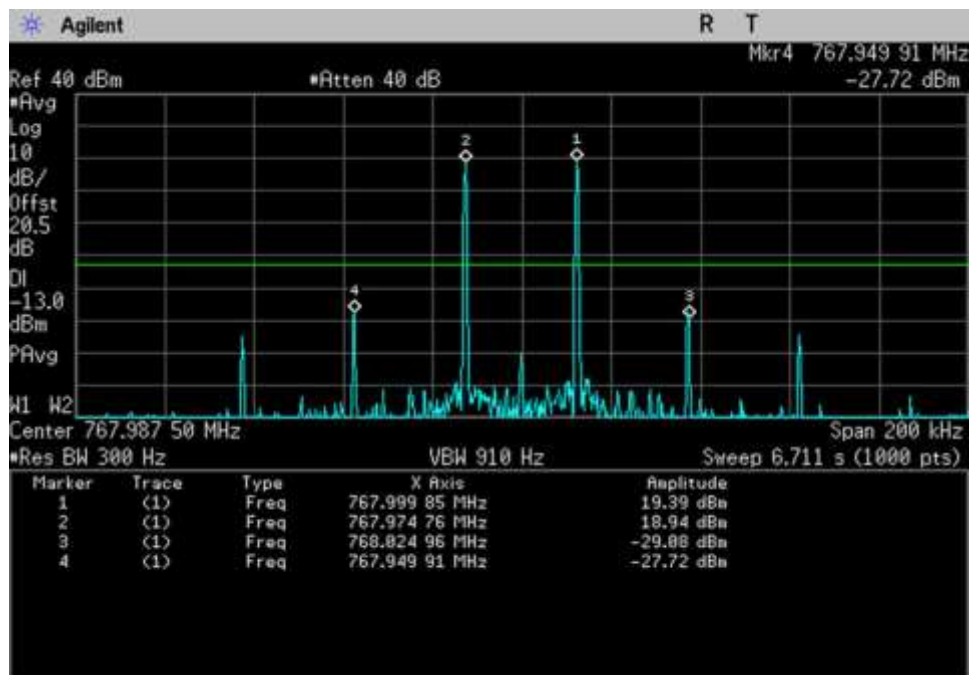
Intermodulation_DL_758-768-F0-AGC_760.5MHz_25kHz



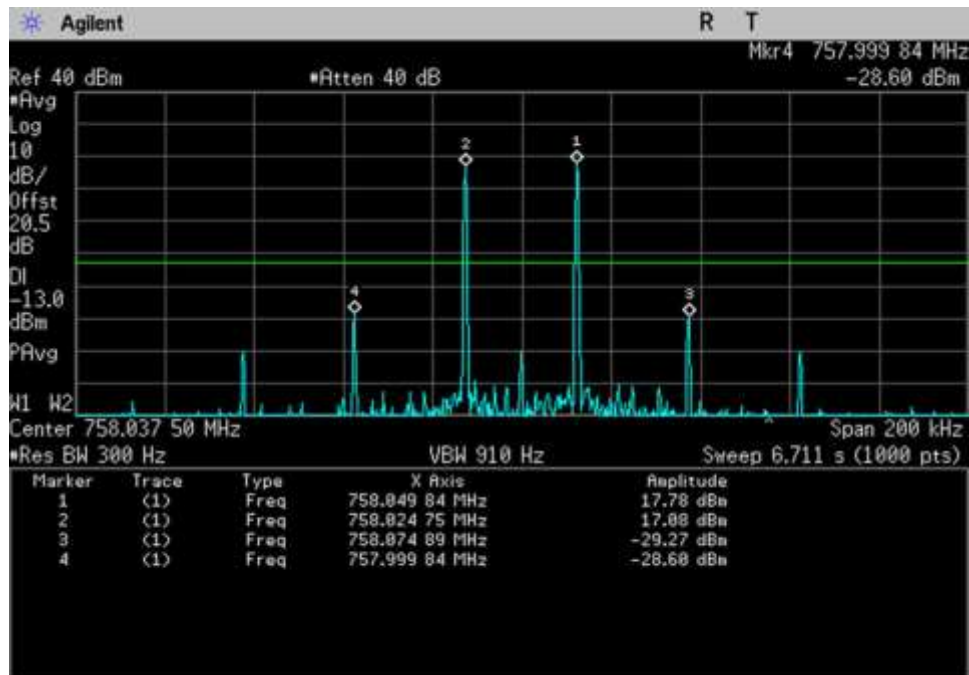
Intermodulation_DL_758-768-F0-AGC+3_760.5MHz_25kHz



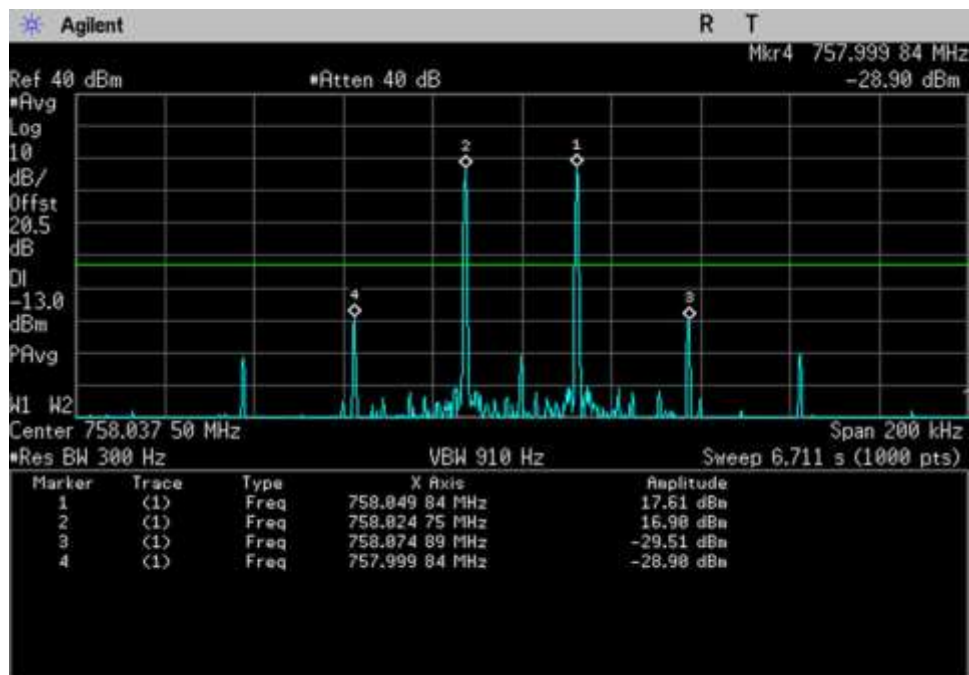
Intermodulation_DL_758-768-HC-AGC_767.9875MHz_25kHz



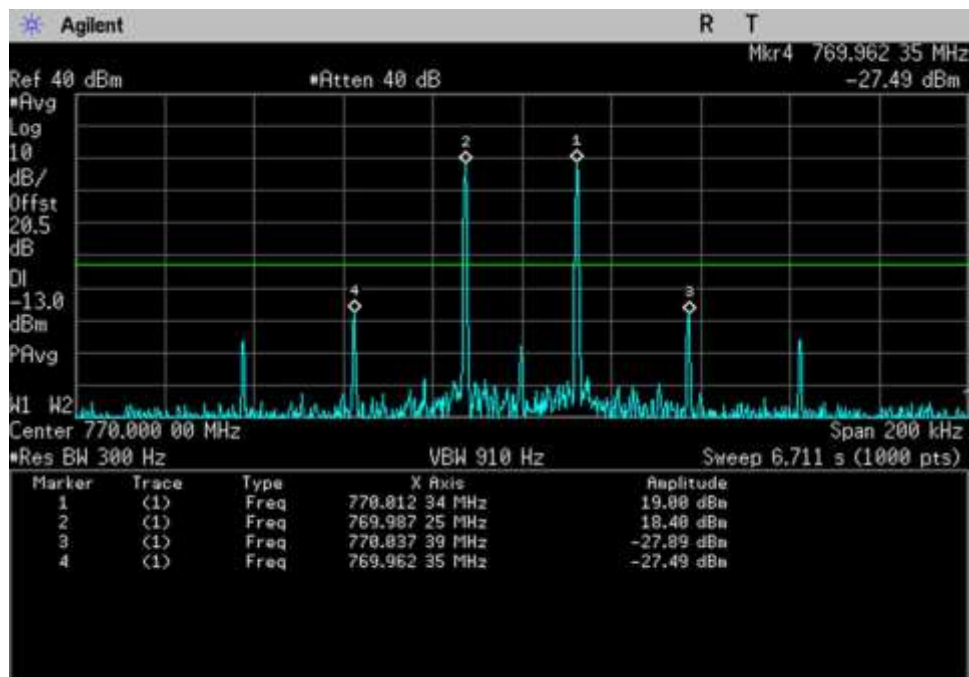
Intermodulation_DL_758-768-HC-AGC+3_767.9875MHz_25kHz



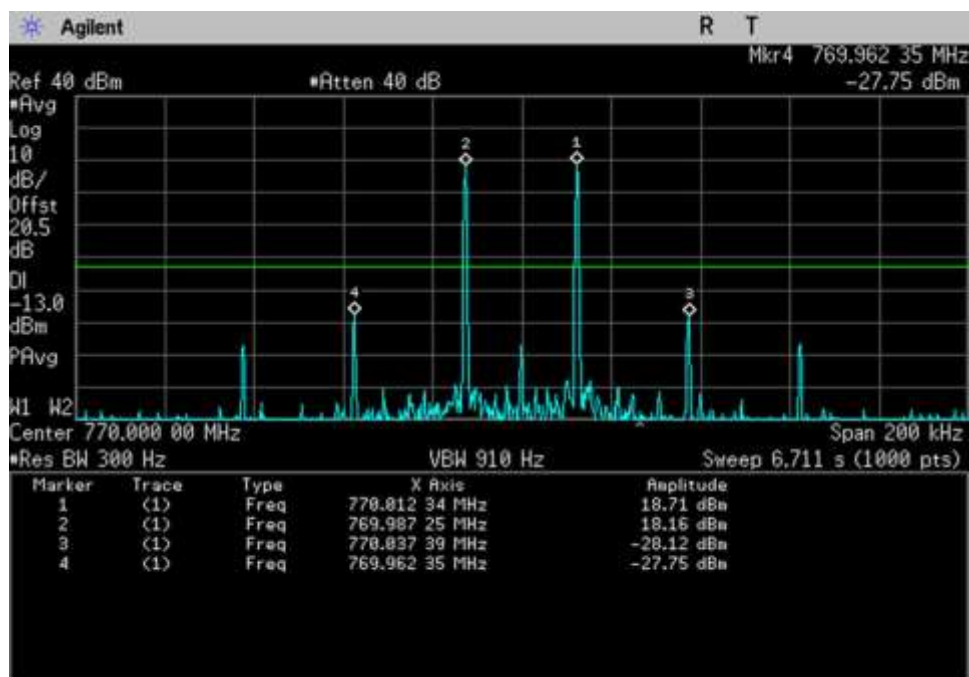
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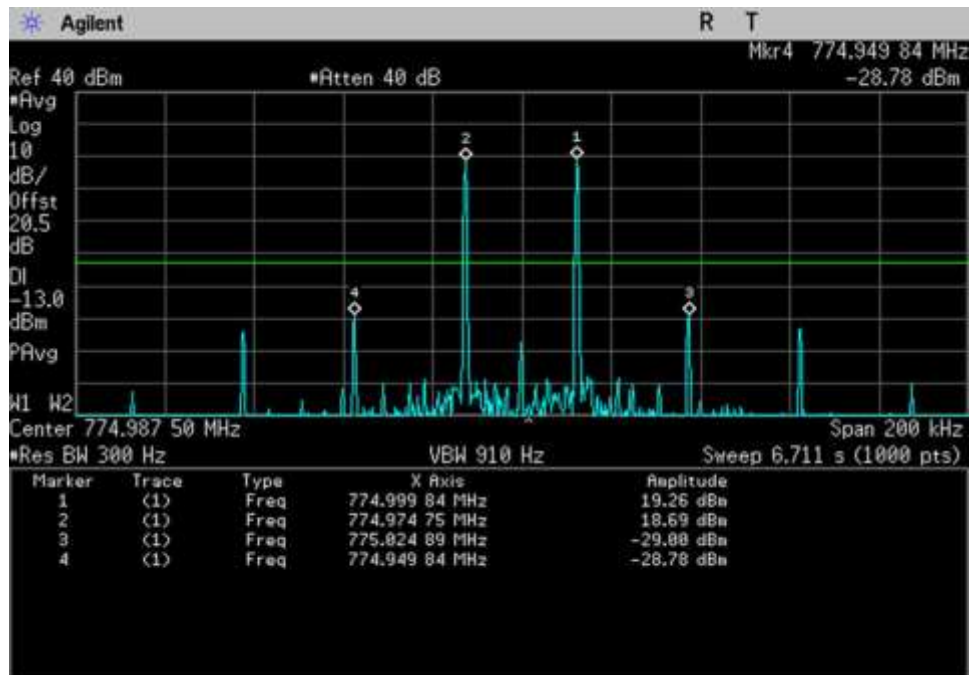
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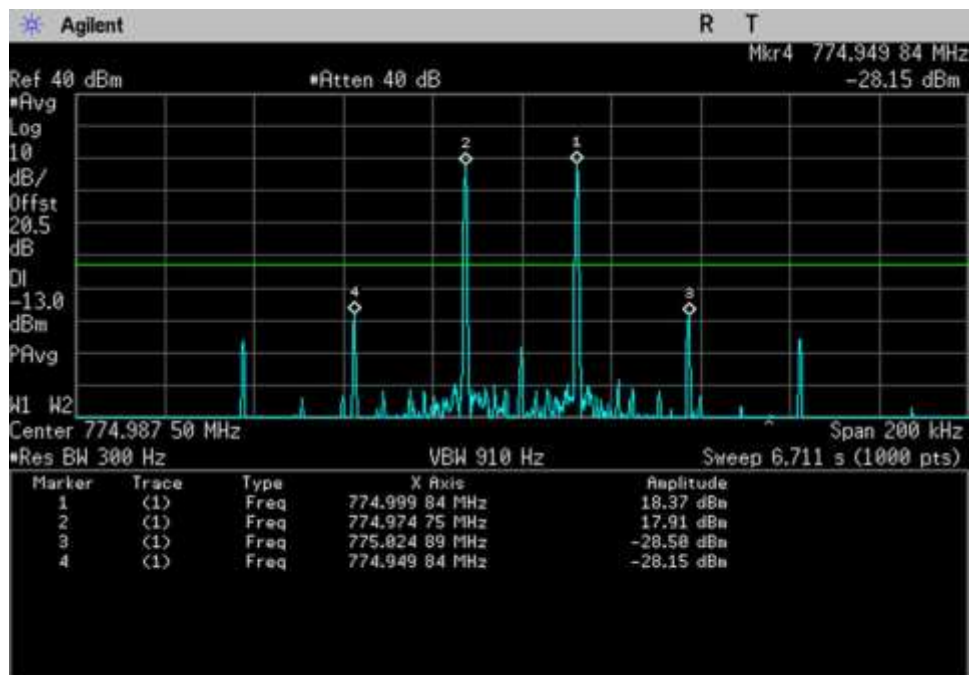
Intermodulation_DL_769-775-F0-AGC_770MHz_25kHz



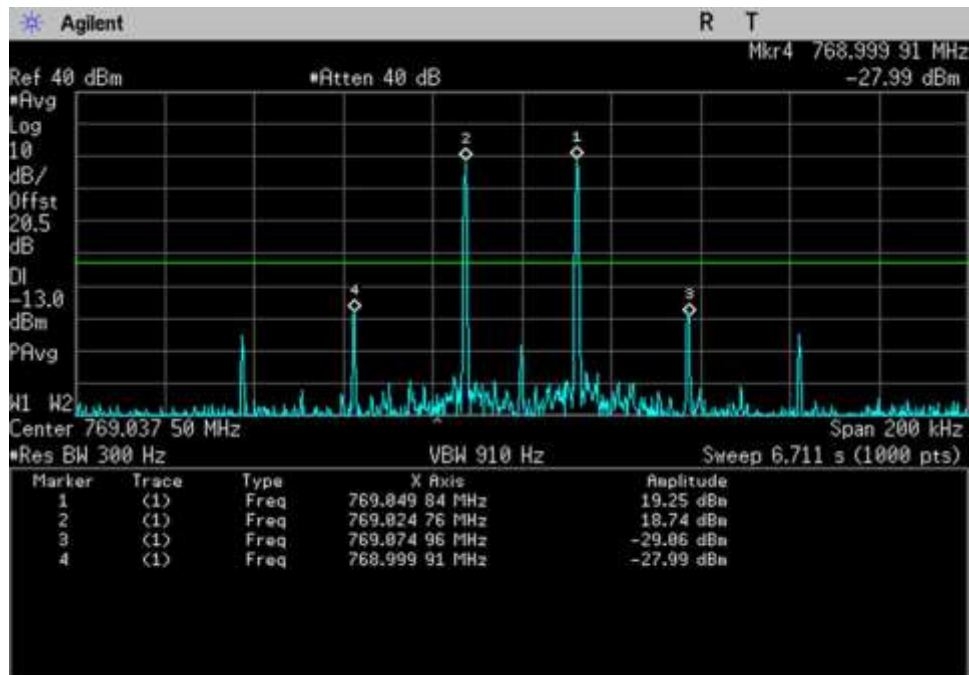
Intermodulation_DL_769-775-F0-AGC+3_770MHz_25kHz



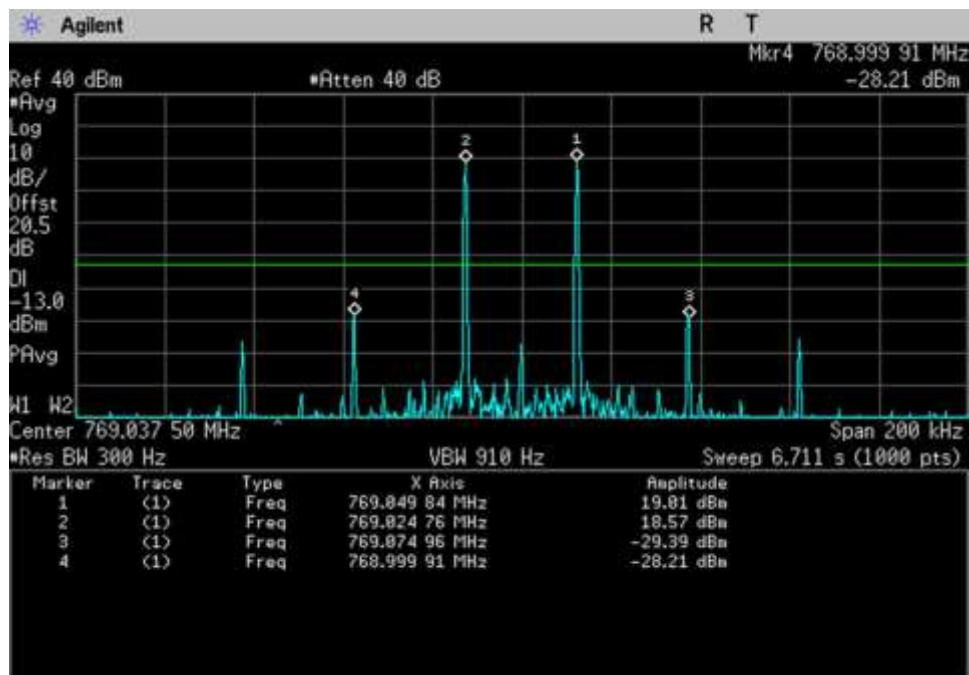
Intermodulation_DL_769-775-HC-AGC_774.9875MHz_25kHz



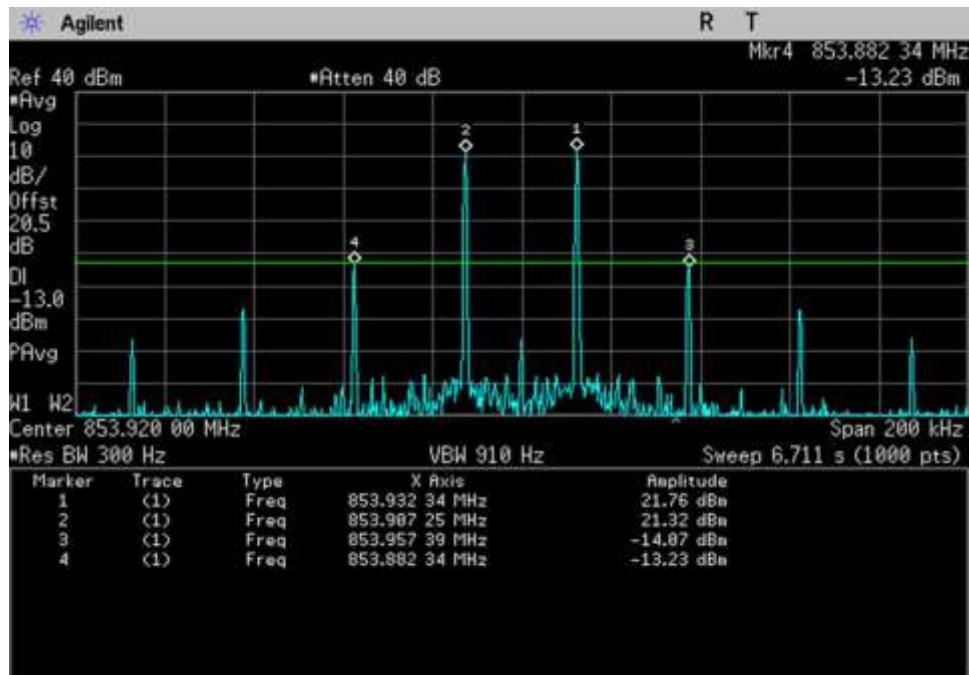
Intermodulation_DL_769-775-HC-AGC+3_774.9875MHz_25kHz



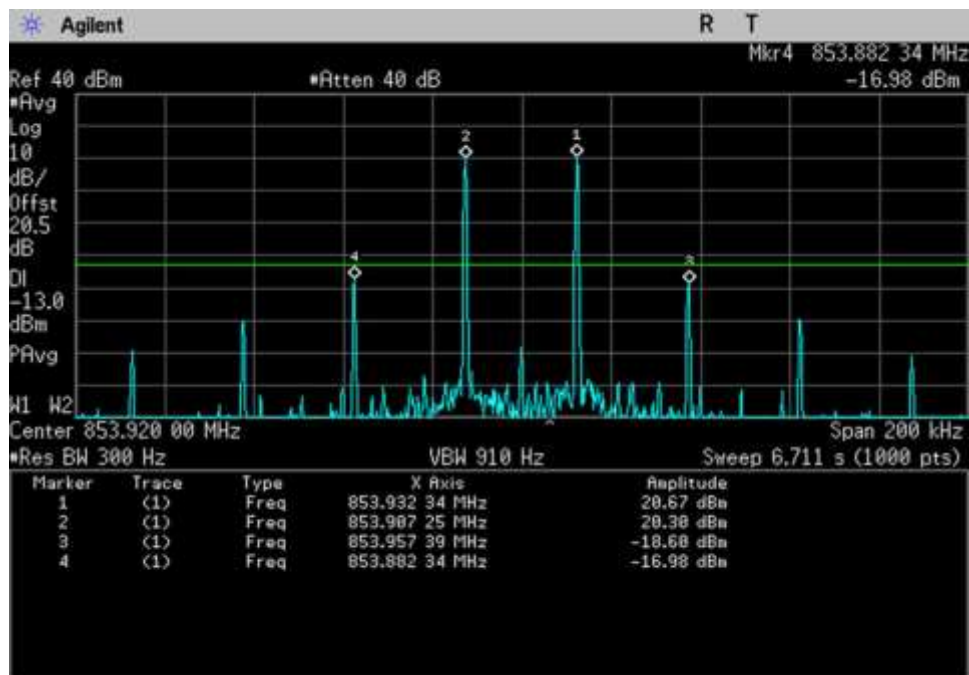
Intermodulation_DL_769-775-LC-AGC_769.0375MHz_25kHz



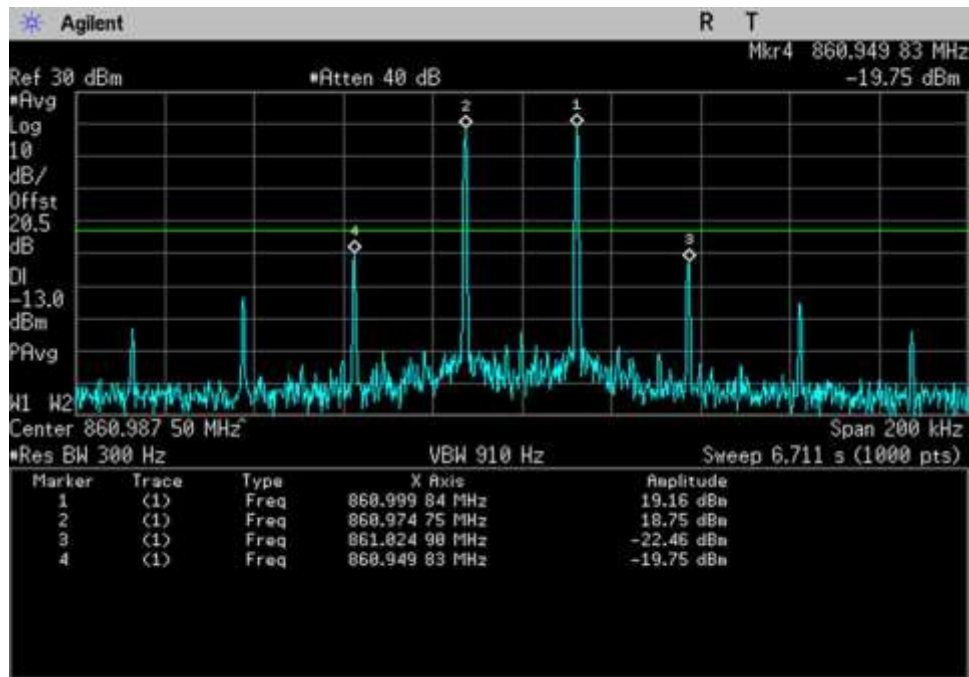
Intermodulation_DL_769-775-LC-AGC+3_769.0375MHz_25kHz



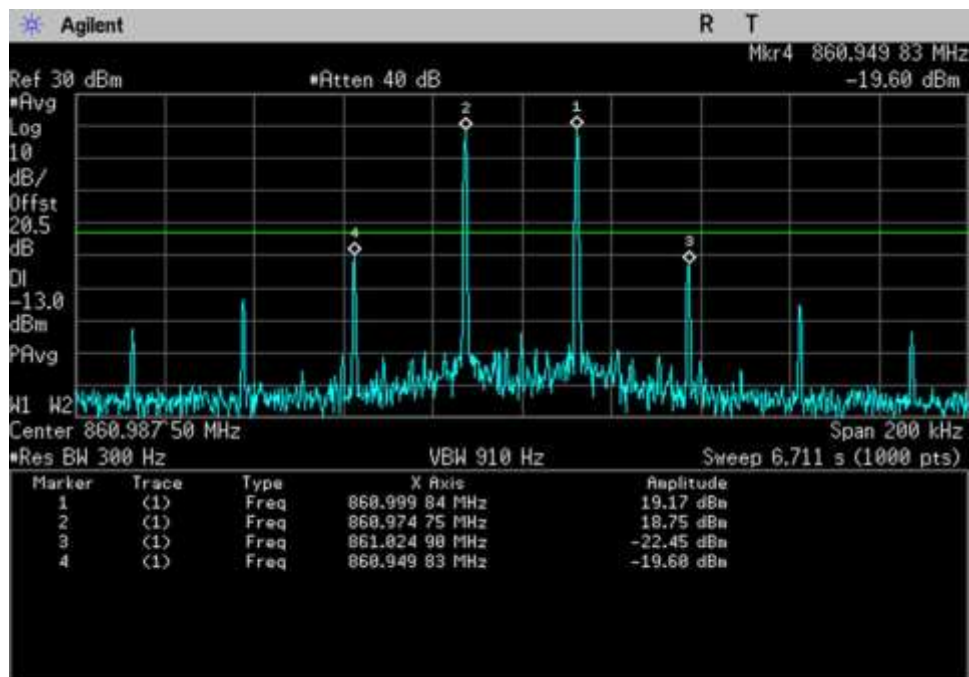
Intermodulation_DL_851-861-F0-AGC_853.92MHz_25kHz



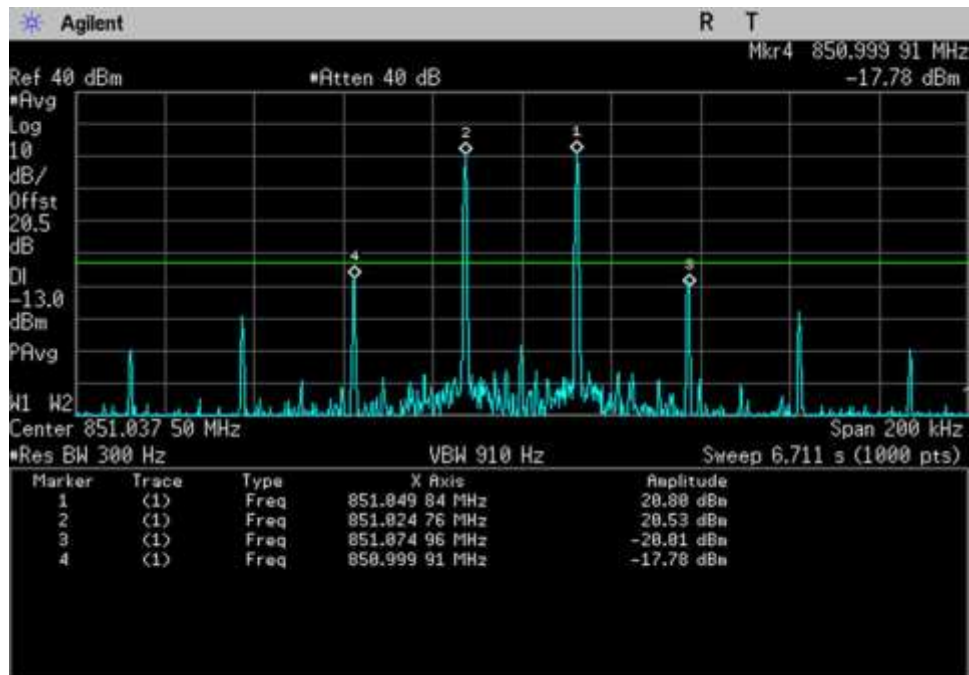
Intermodulation_DL_851-861-F0-AGC+3_853.92MHz_25kHz



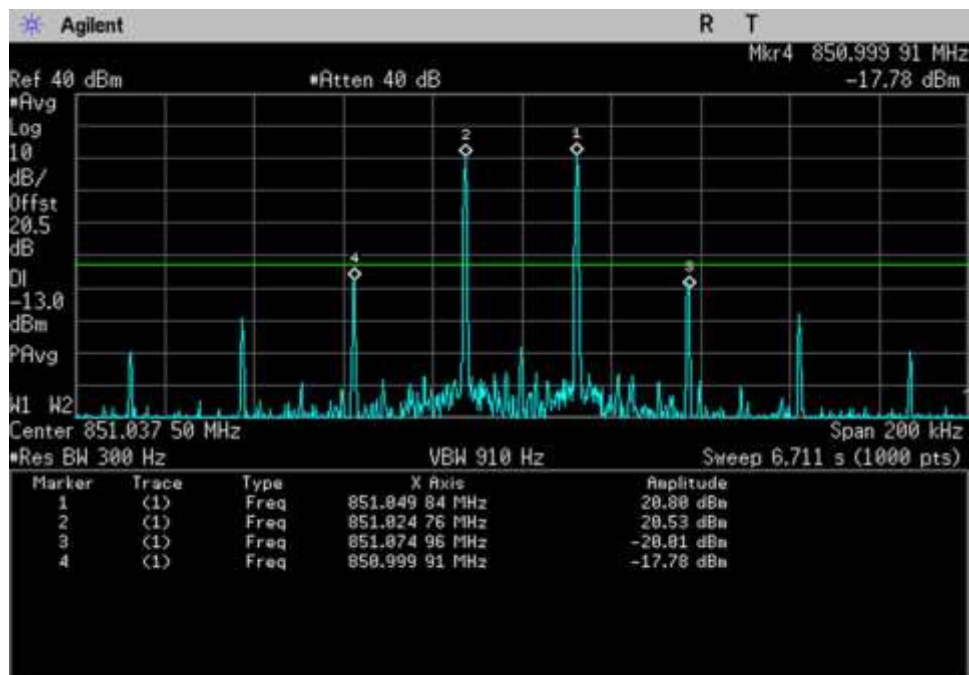
Intermodulation_DL_851-861-HC-AGC_ 860.9875MHz_25kHz



Intermodulation_DL_851-861-HC-AGC+3_ 860.9875MHz_25kHz

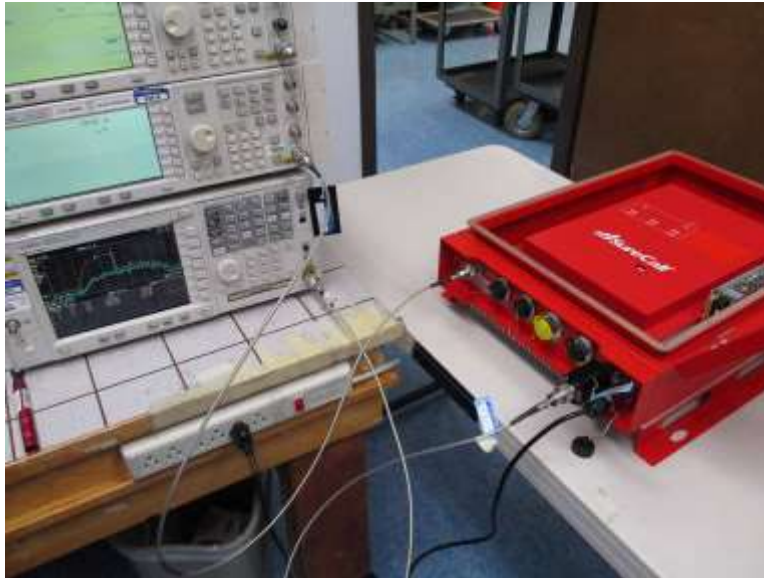


Intermodulation_DL_851-861-LC-AGC_851.0375MHz_25kHz



Intermodulation_DL_851-861-LC-AGC+3_851.0375MHz_25kHz

Test Setup Photo



Part 90: 219(e) Spurious Emissions - Conducted

Engineer: Hieu Song Nguyenpham

Test Date: 6/1/2018

Test Setup:

UL: 788-798, 799-805, 806-816 MHz

DL: 758-768, 769-775, 851-861 MHz

TX Frequency = > Low, Middle and High of above listed bands.

Modulation=> CW

Frequency range of measurement = 30MHz- 9GHz.

30 MHz - 1000MHz -> RBW*= 100kHz VBW= 300kHz

1000 MHz - 9000MHz ->RBW= 1MHz VBW= 3MHz

No emissions above 1GHz were found within 20dB of the limit line, including the 1559-1610 MHz band in accordance with 90.543 (f).

No emissions below 1GHz were found within 20dB of the limit line, excluding the fundamental frequency.

§90.543 Emission limitations.

(c) Out-of-band emission limit. On any frequency outside of the frequency ranges covered by the ACP tables in this section, the power of any emission must be reduced below the mean output power (P) by at least $43 + 10\log(P)$ dB measured in a 100 kHz bandwidth for frequencies less than 1 GHz, and in a 1 MHz bandwidth for frequencies greater than 1 GHz.

(f) For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

Test Equipment					
Asset #	Description	Model	Manufacturer	Cal Date	Cal Due
P06797	Attenuator	Narda	766-20	4/10/2017	4/10/2019
03471	Spectrum Analyzer	Agilent	E4440A	1/18/2018	1/18/2020
03418	Signal Generator	Agilent	E4438C	6/19/2017	6/19/2019
P07191	Cable	Astro	32022-29094K-29094K-48TC	10/30/2017	10/30/2019
03362	Cable	Astrolab	32022-2-29094-48TC	1/10/2017	1/10/2019

Environmental Conditions					
Temperature (°C)	22.5	Relative Humidity (%):	49	Atmospheric Pressure (kPa):	101.9

Summary of Results

Pass: As summarized in plots below, the conducted spurious emissions are within limits.

Limit Line for Spurious Conducted Emission

$$\text{REQUIRED ATTENUATION} = 43 + 10 \log P \text{ DB}$$

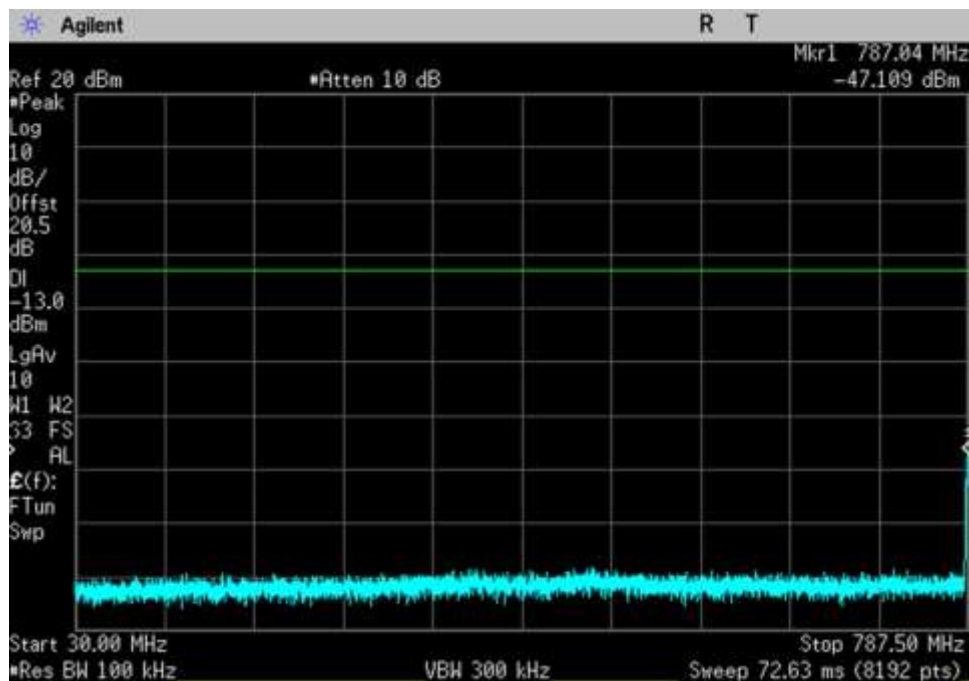
$$\text{Limit line (dBuV)} = V_{\text{dBuV}} - \text{Attenuation}$$

$$\begin{aligned} V_{\text{dBuV}} &= 20 \log \frac{V}{1 \times 10^{-6}} \\ &= 20 (\log V - \log 1 \times 10^{-6}) \\ &= 20 \log V - 20 \log 1 \times 10^{-6} \\ &= 20 \log V - 20(-6) \\ &= 20 \log V + 120 \end{aligned}$$

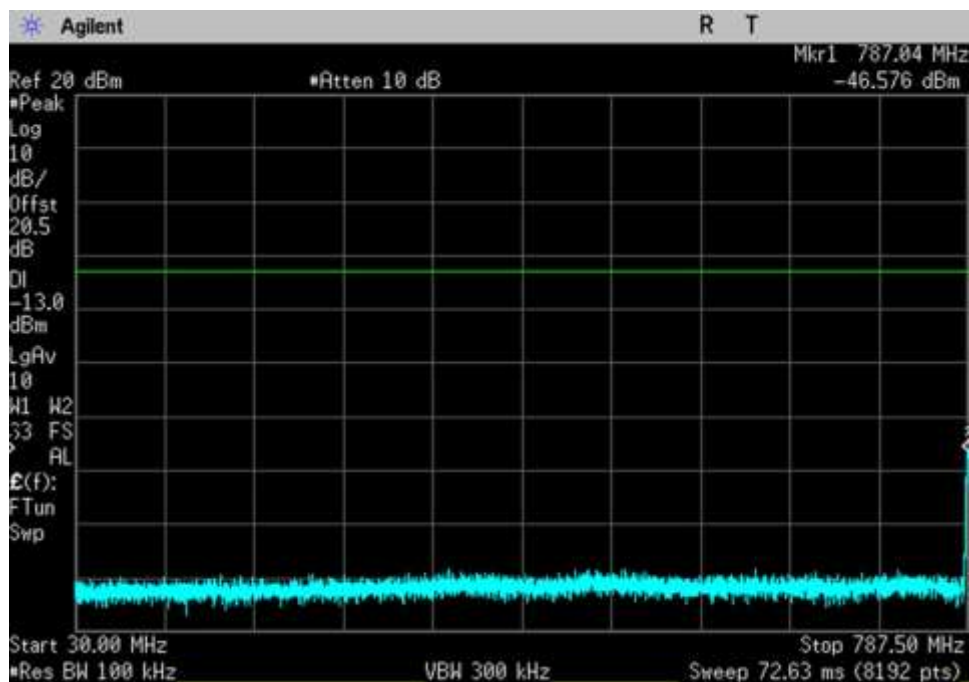
$$\begin{aligned} \text{Attenuation} &= 43 + 10 \log P \\ &= 43 + 10 \log \frac{V^2}{R} \\ &= 43 + 10 (\log V^2 - \log R) \\ &= 43 + 10 (2 \log V - \log R) \\ &= 43 + 20 \log V - 10 \log R \end{aligned}$$

$$\begin{aligned} \text{Limit line} &= V_{\text{dBuV}} - \text{Attenuation} \\ &= 20 \log V + 120 - (43 + 20 \log V - 10 \log R) \\ &= 20 \log V + 120 - 43 - 20 \log V + 10 \log R \\ &= 20 \log V + 120 - 43 - 20 \log V + 10 \log R \\ &= 120 - 43 + 10 \log 50 \quad \text{Note : } R = 50 \Omega \\ &= 120 - 43 + 16.897 \\ &= 94 \text{ dBuV at any power level} \end{aligned}$$

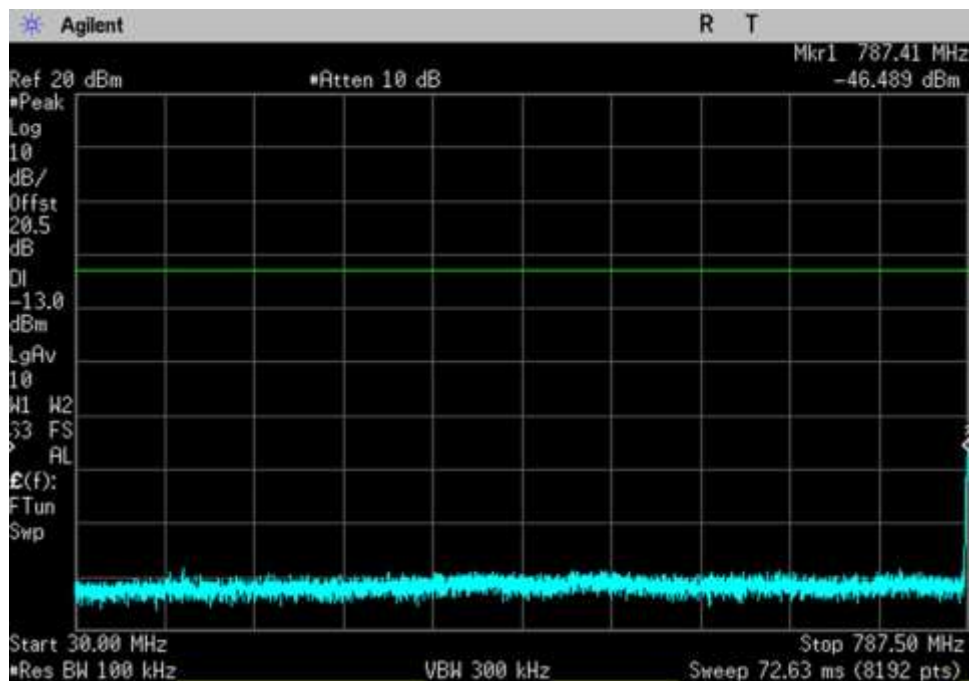
Plots



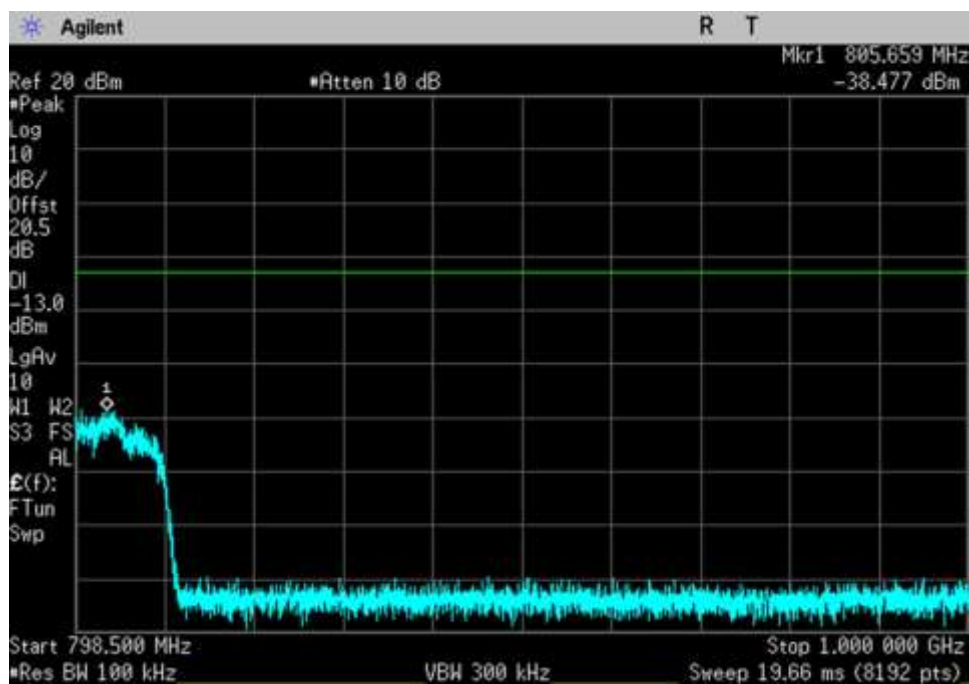
CSE_UL_788-798_30- 787.5MHz_HC



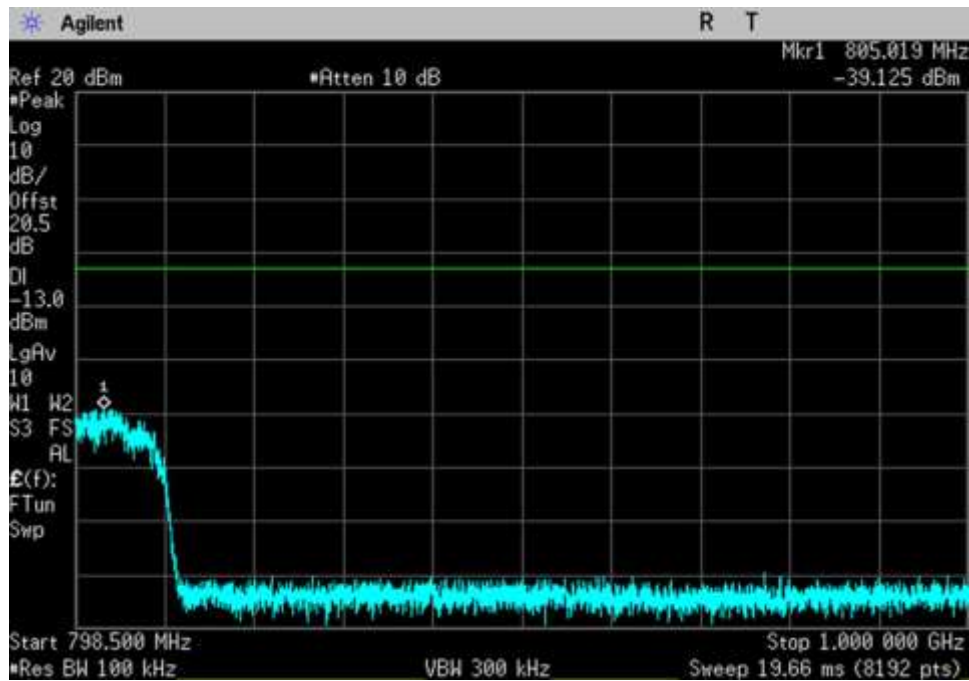
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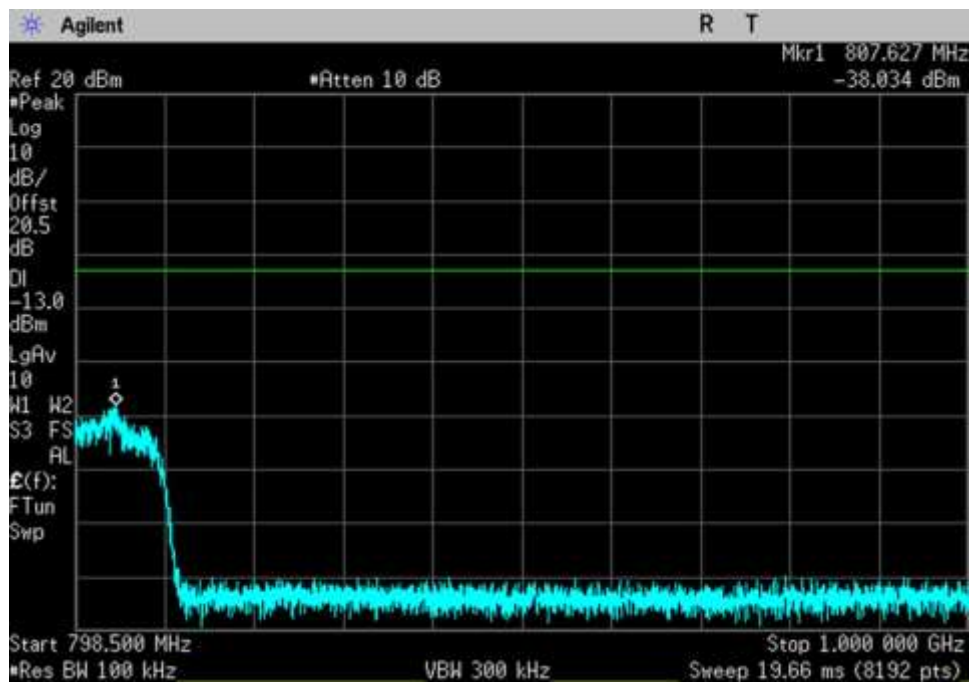
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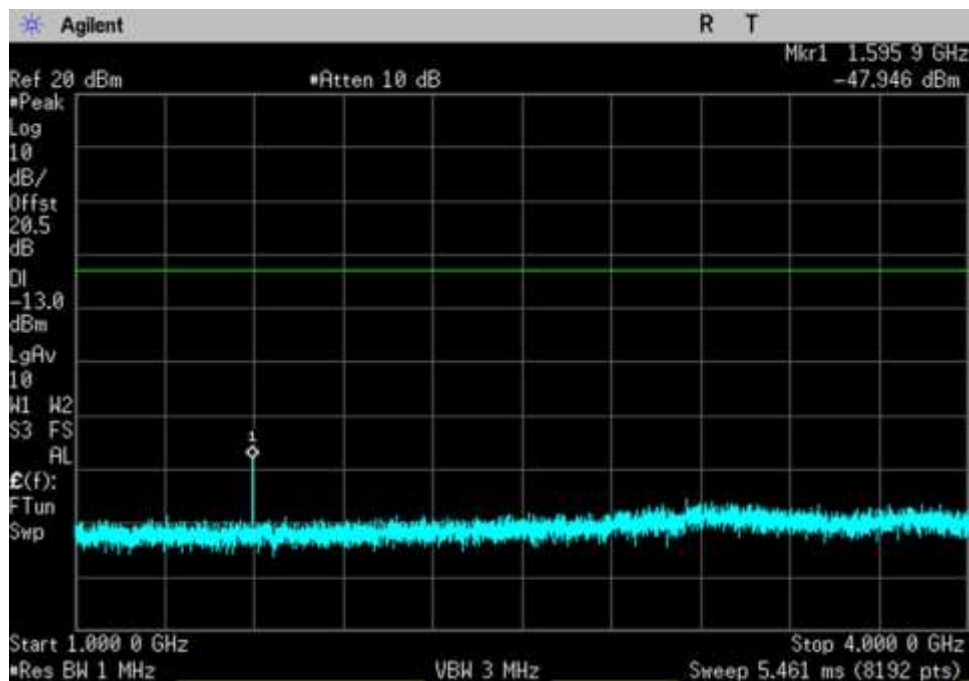
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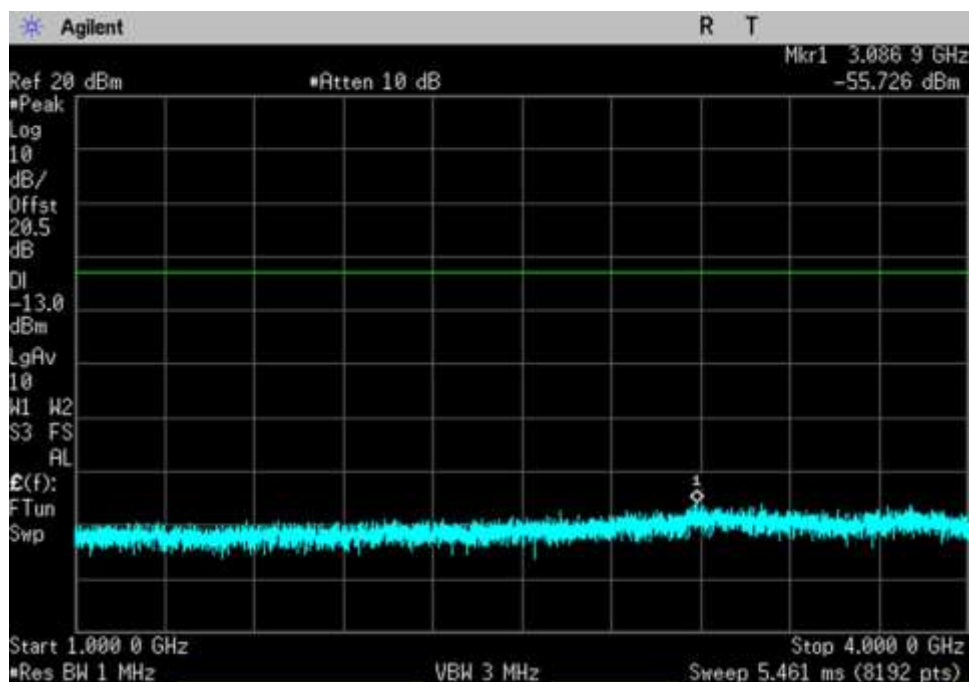
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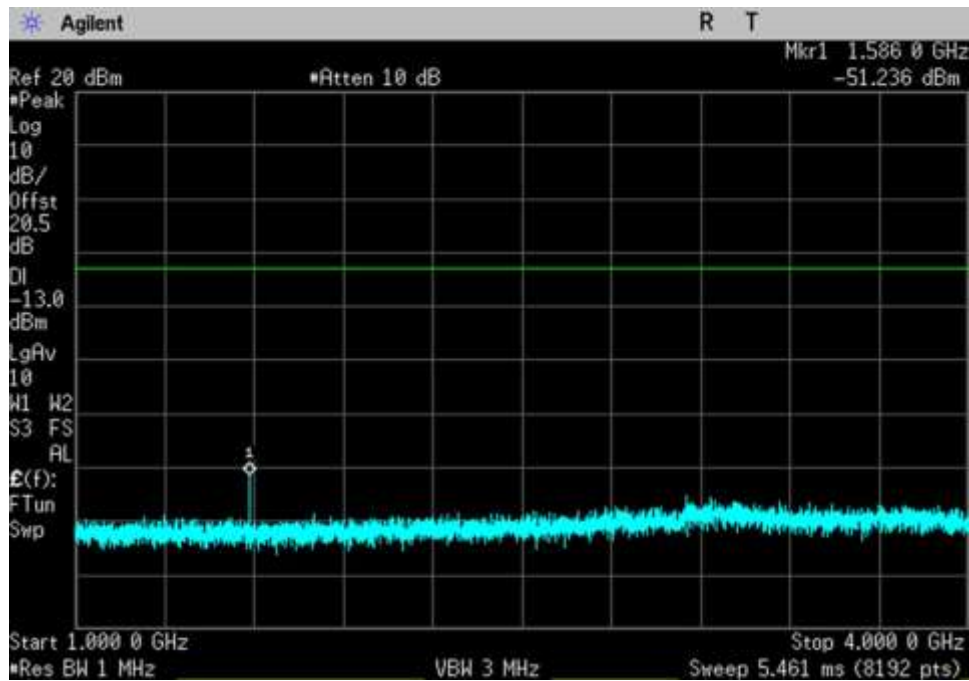
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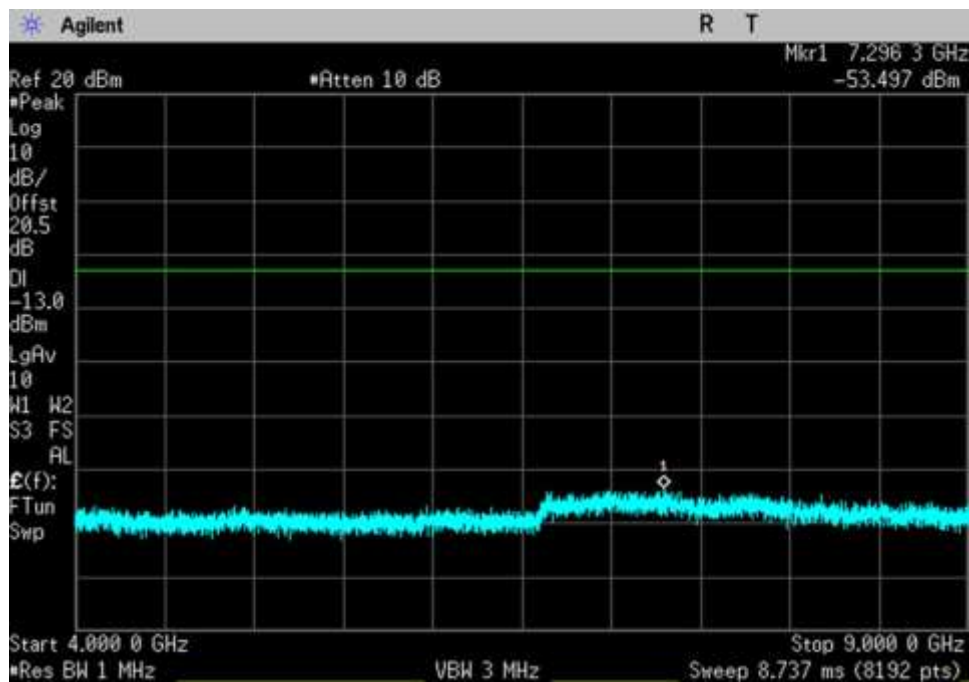
CSE_UL_788-798_1000-4000MHz_HC



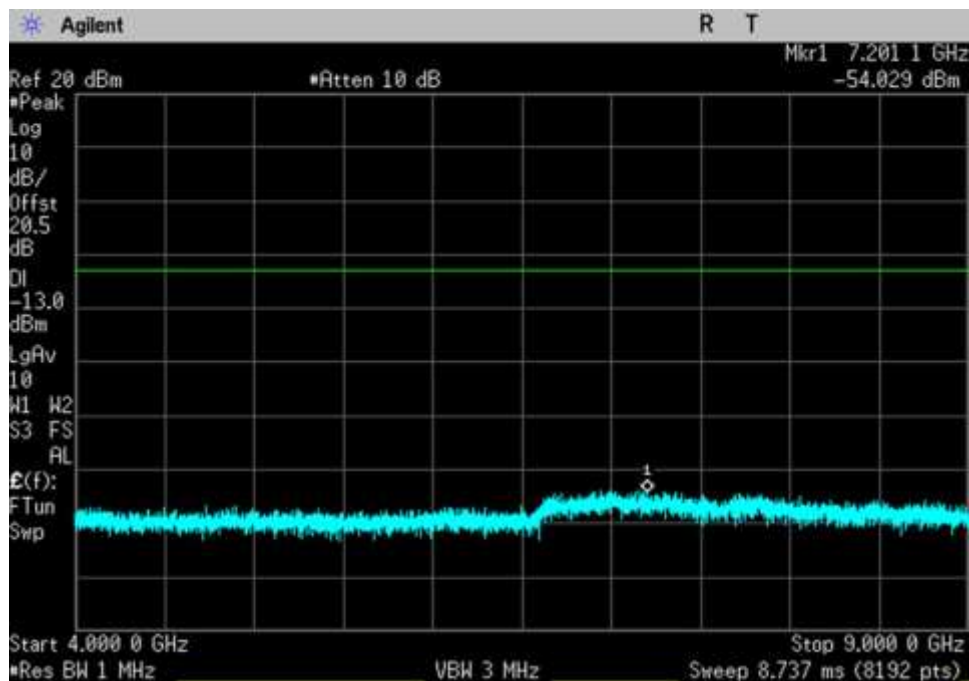
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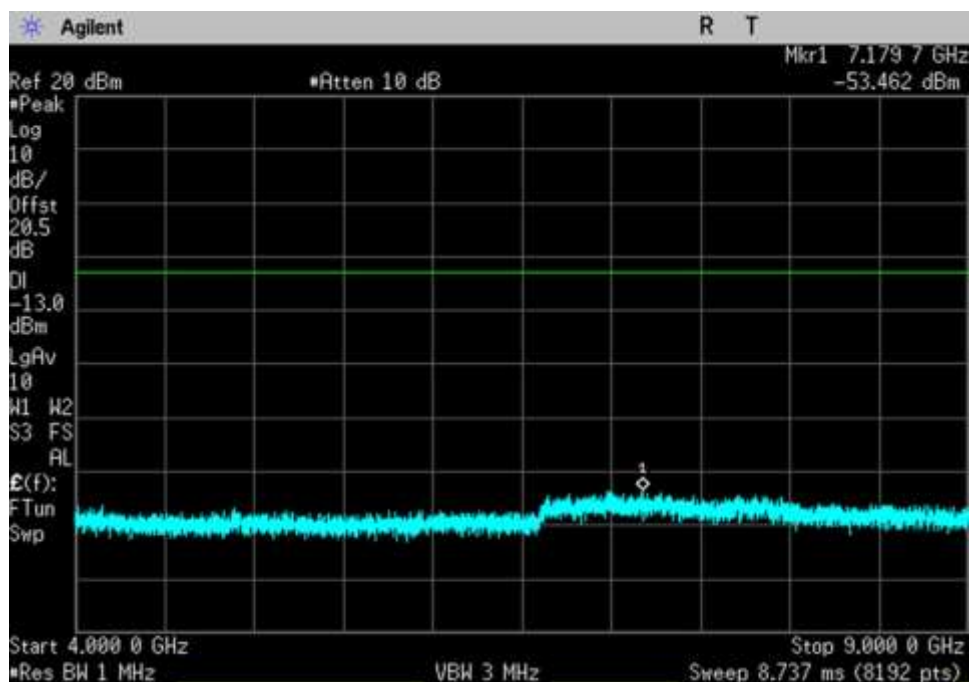
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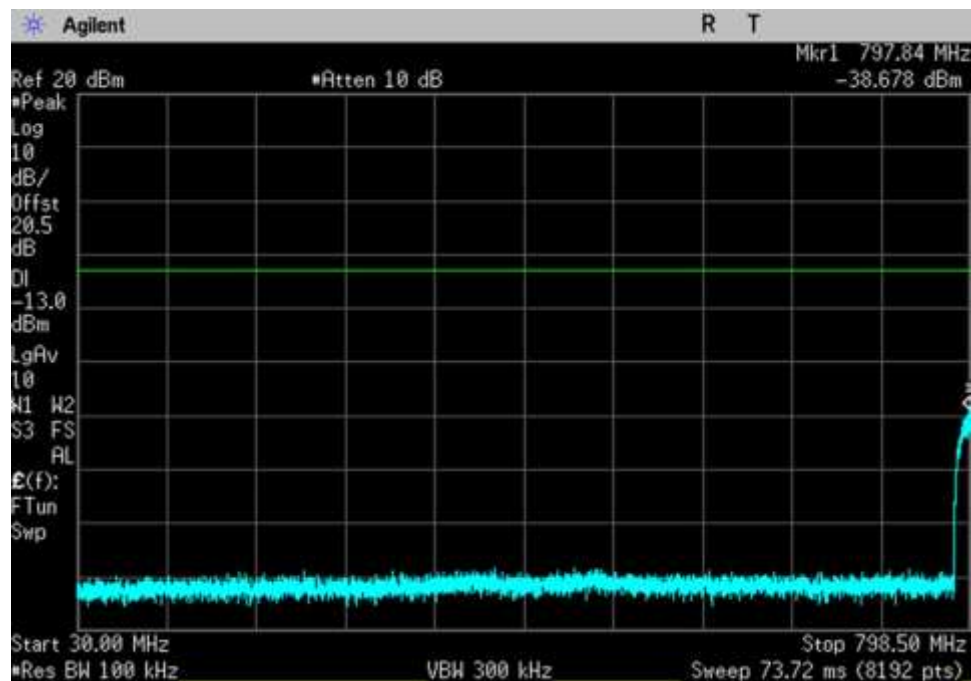
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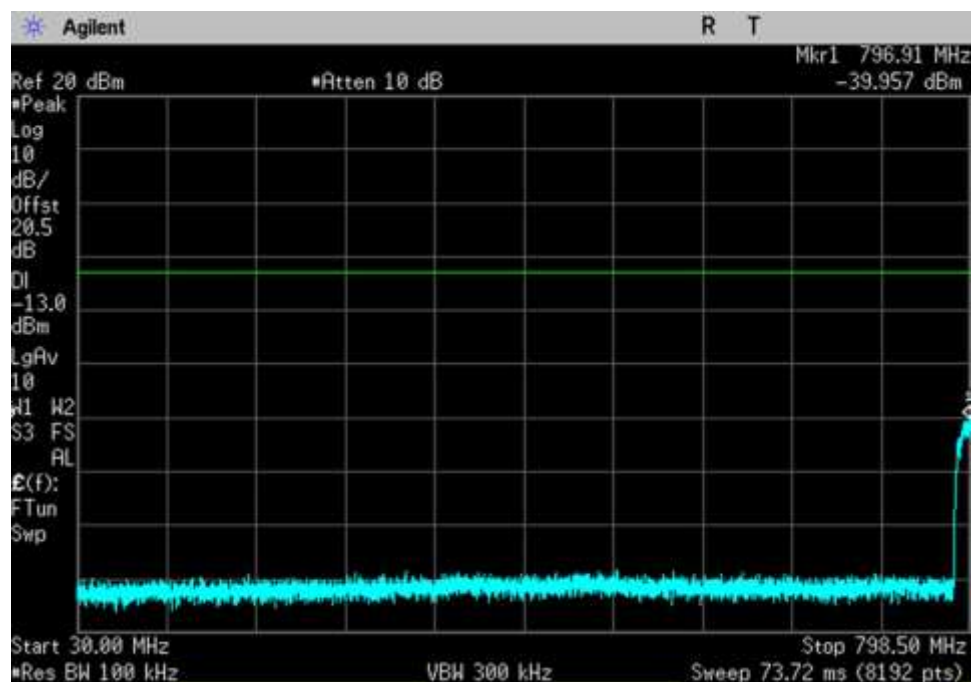
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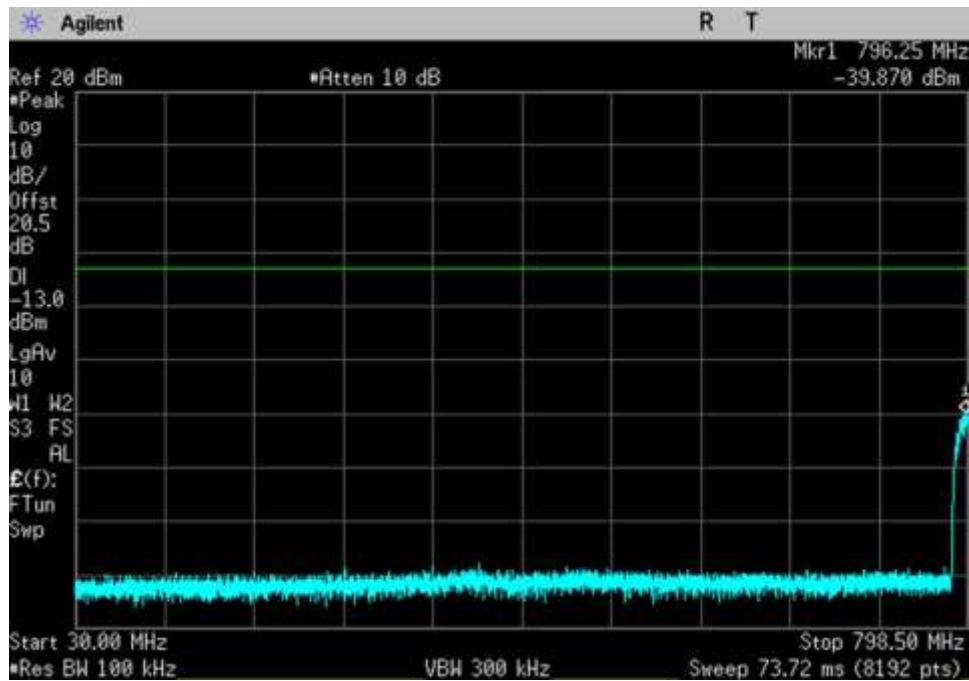
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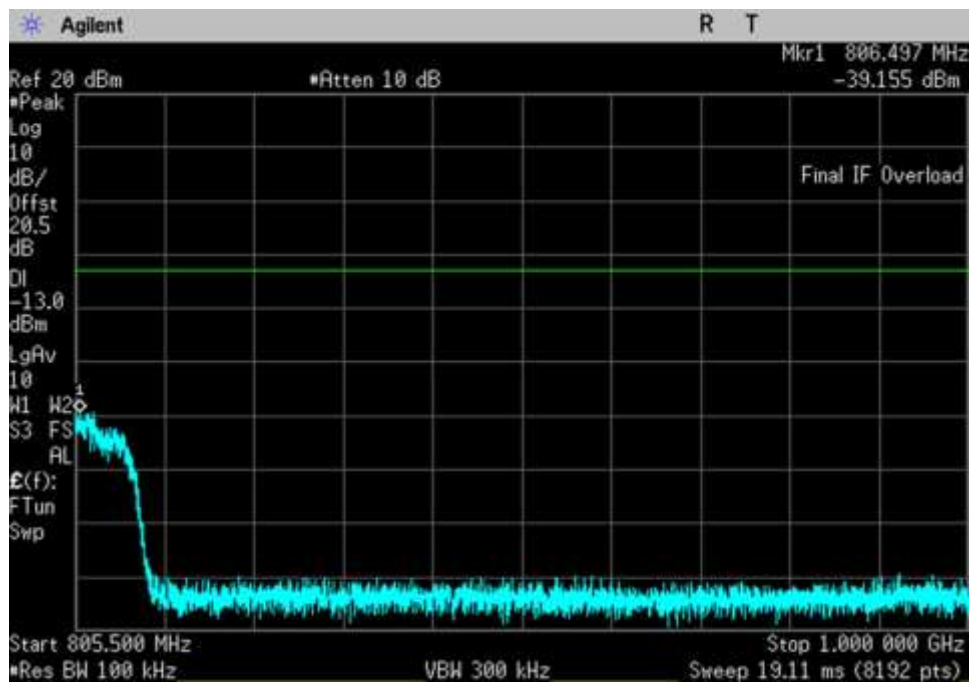
CSE_UL_799-805_30-798.5MHz_HC



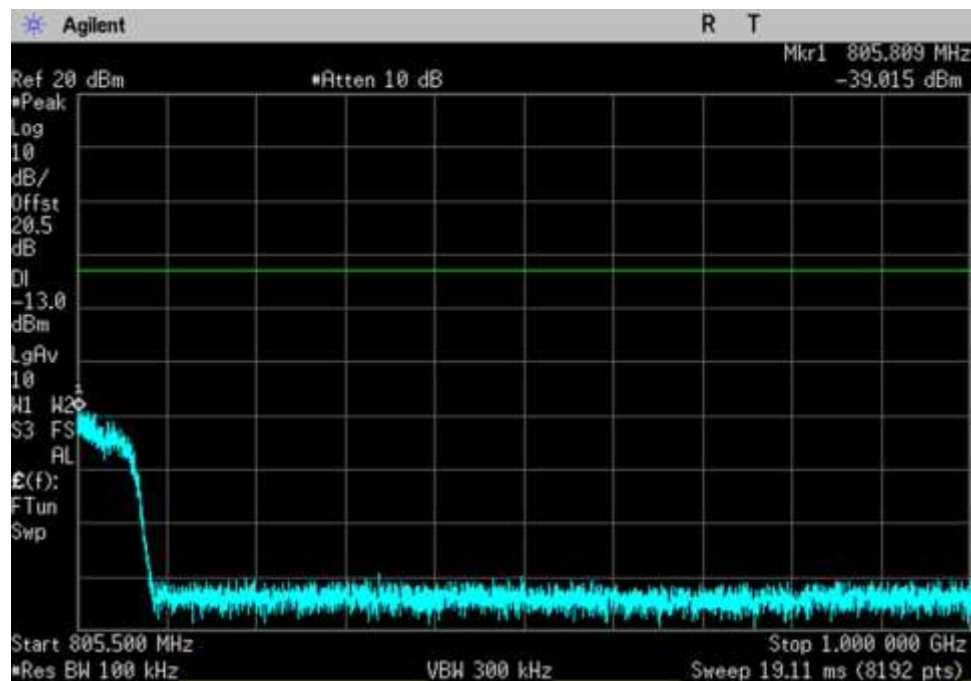
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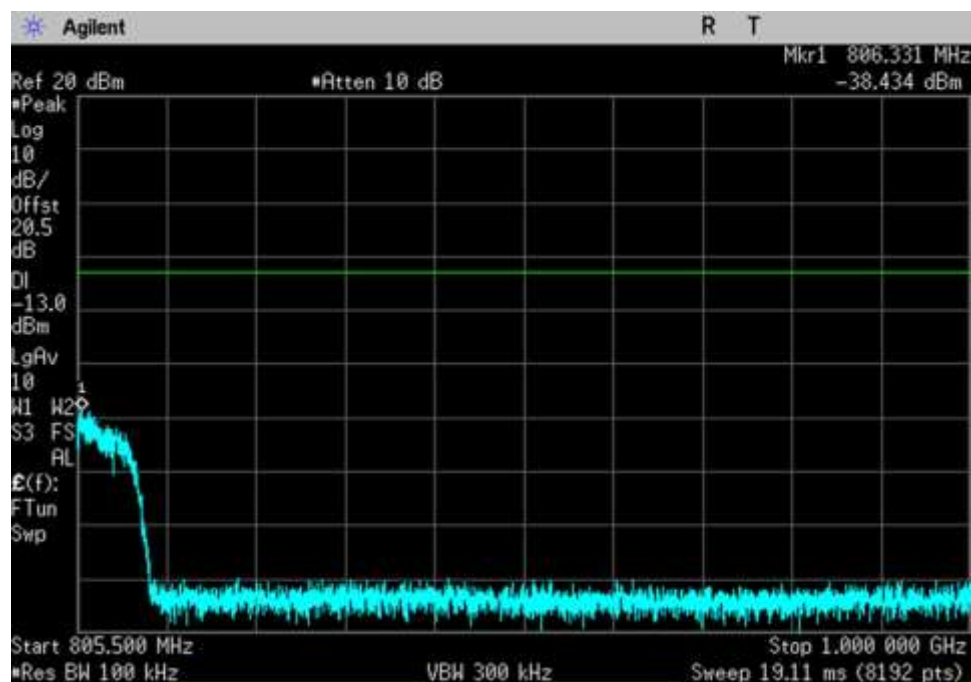
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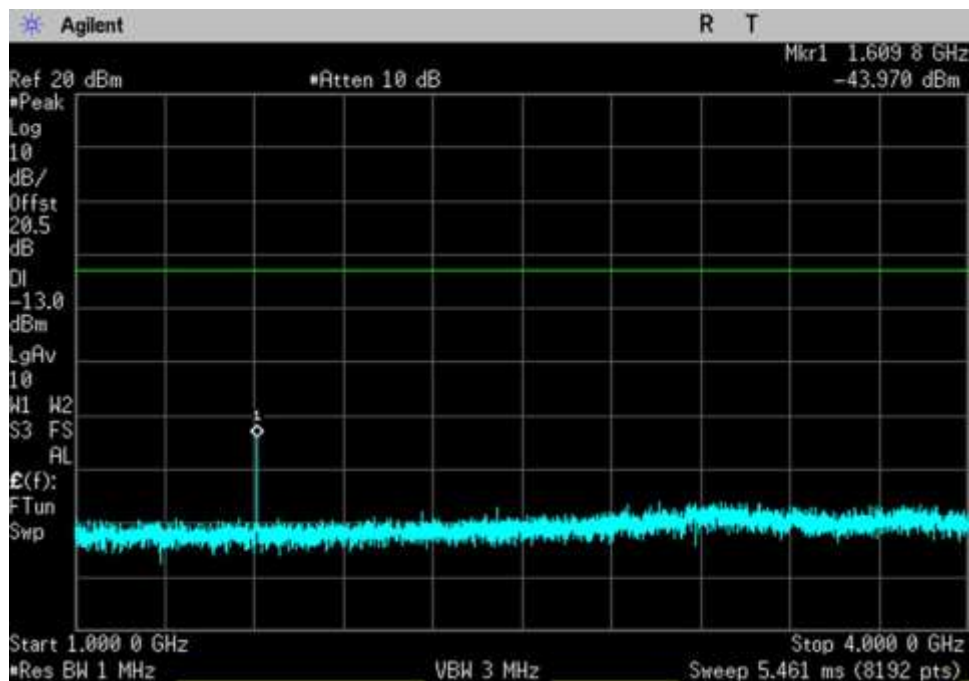
CSE_UL_799-805_ 805.5- 1000MHz_HC



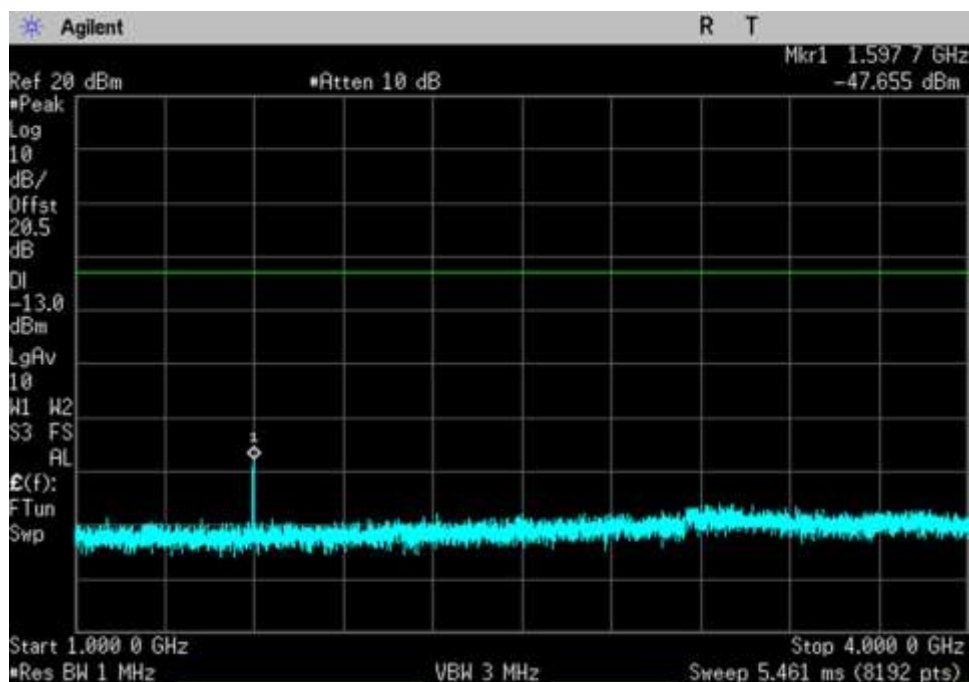
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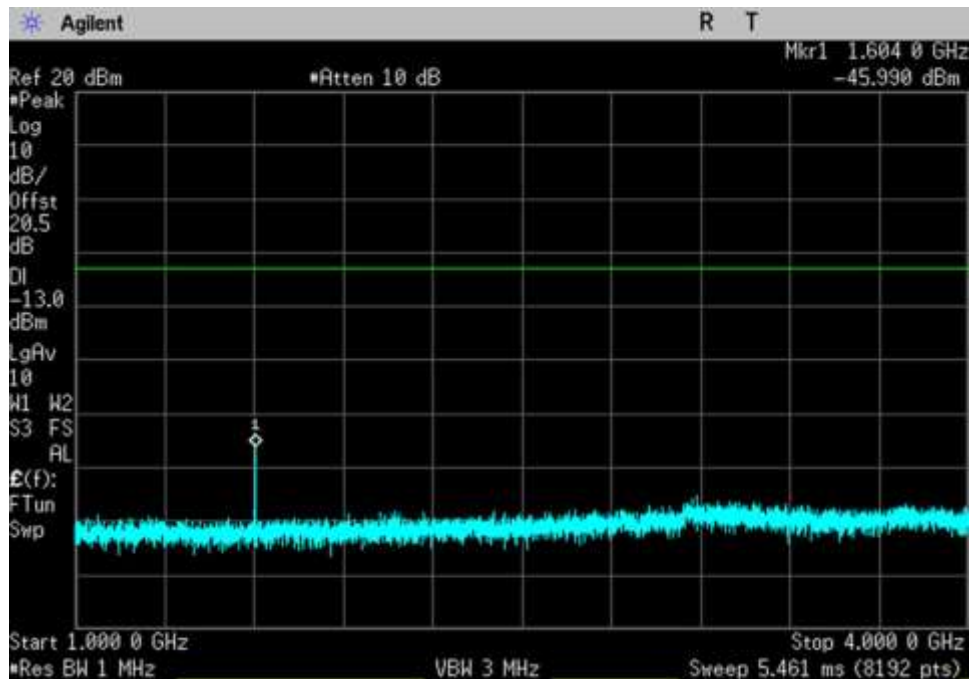
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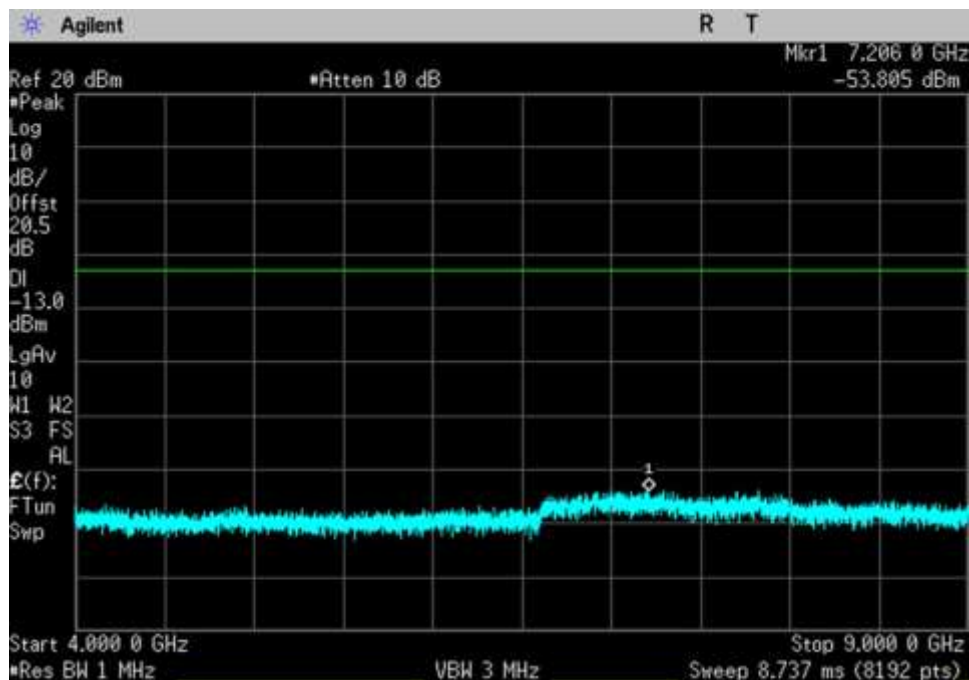
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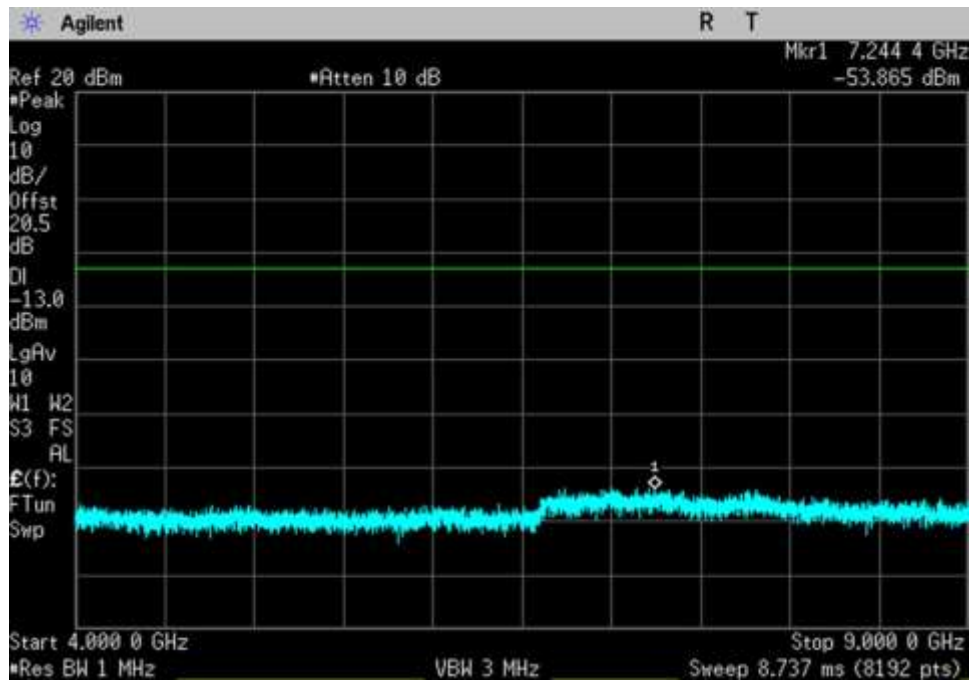
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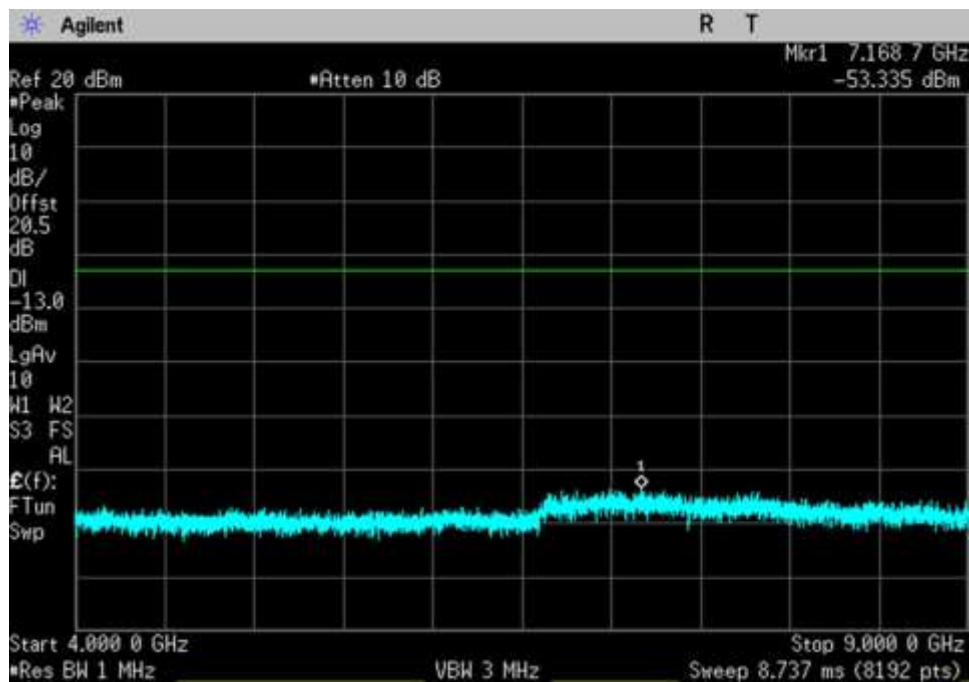
CSE_UL_799-805_ 1000- 4000MHz_MC



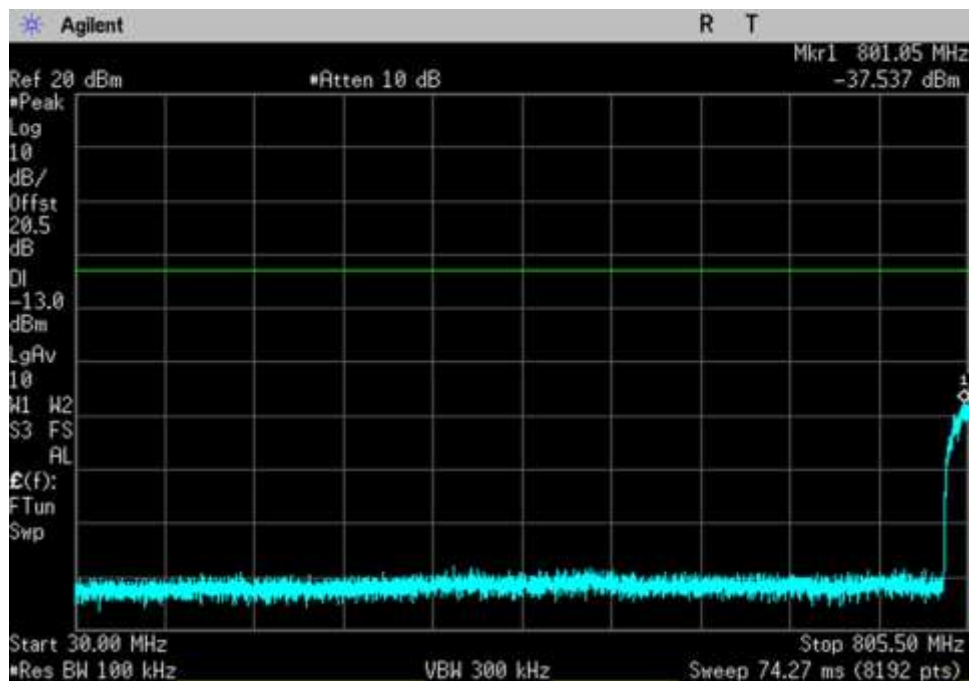
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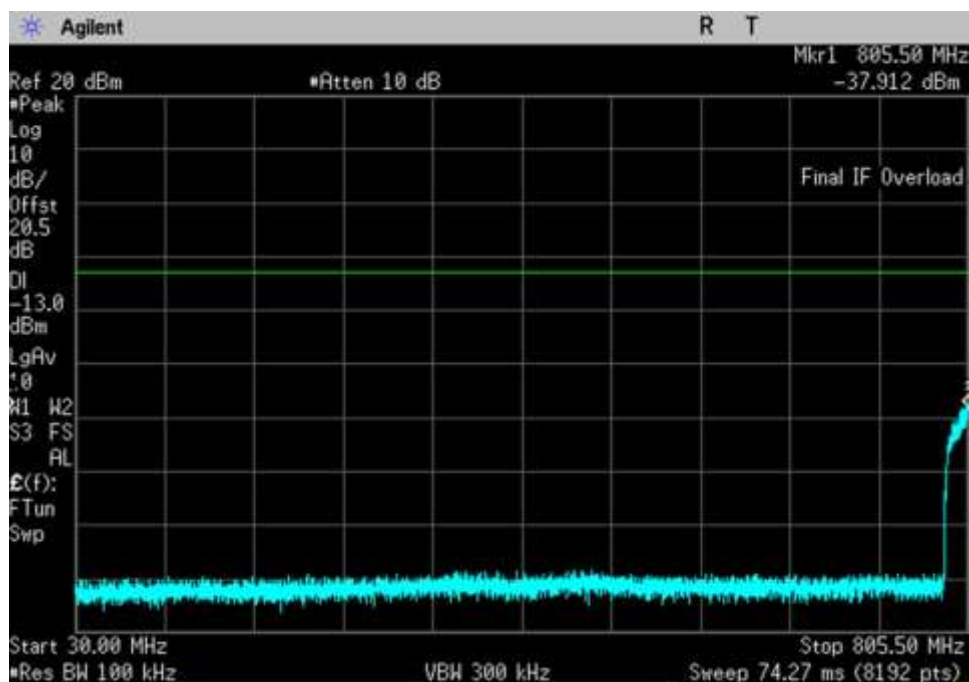
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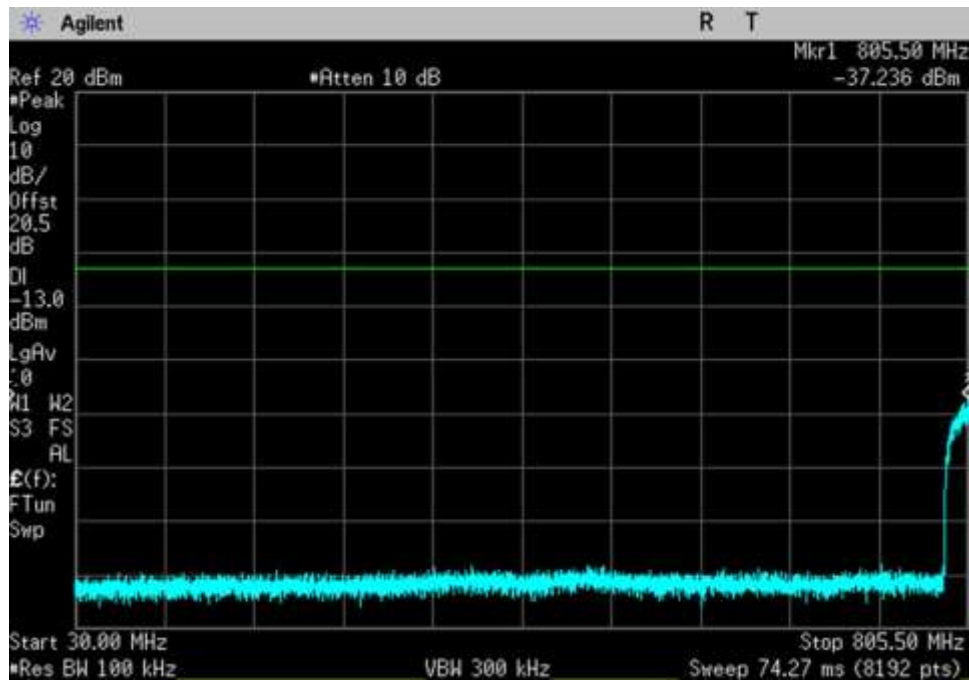
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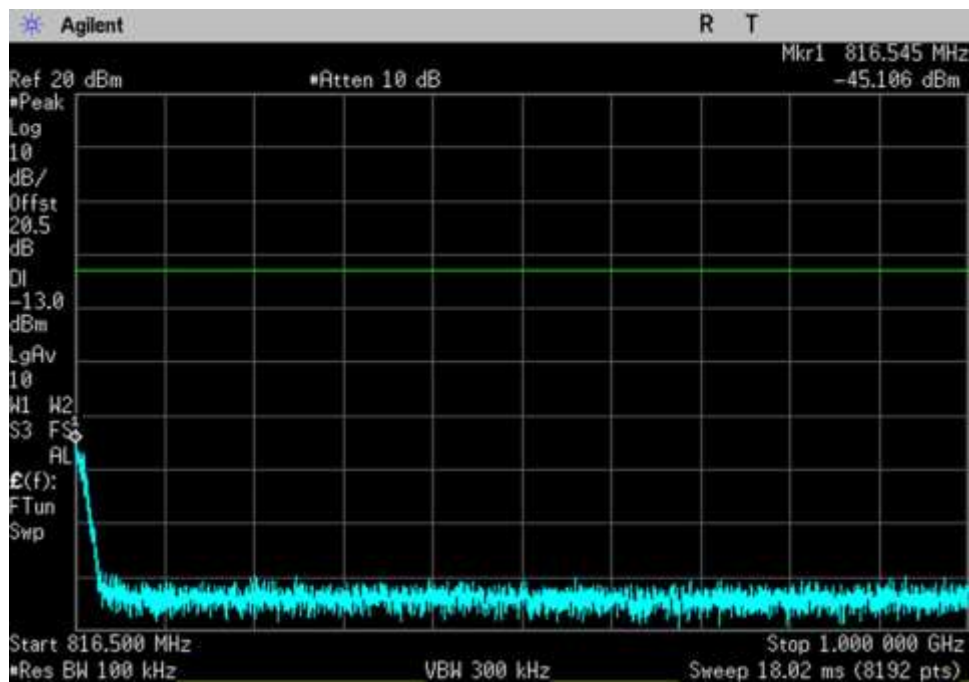
CSE_UL_806-816_30- 805.5MHz_HC



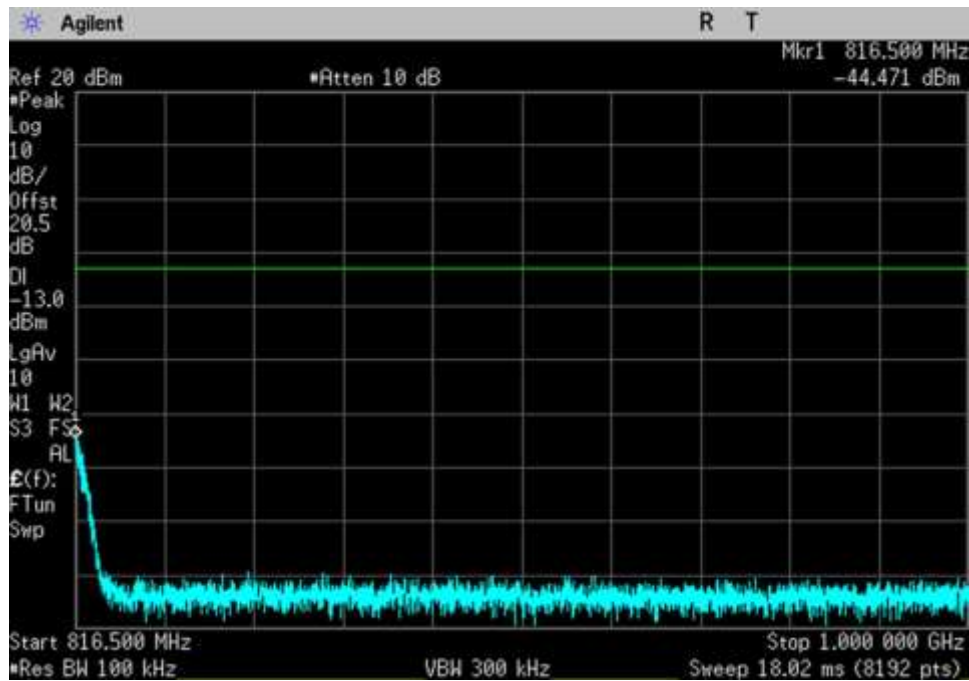
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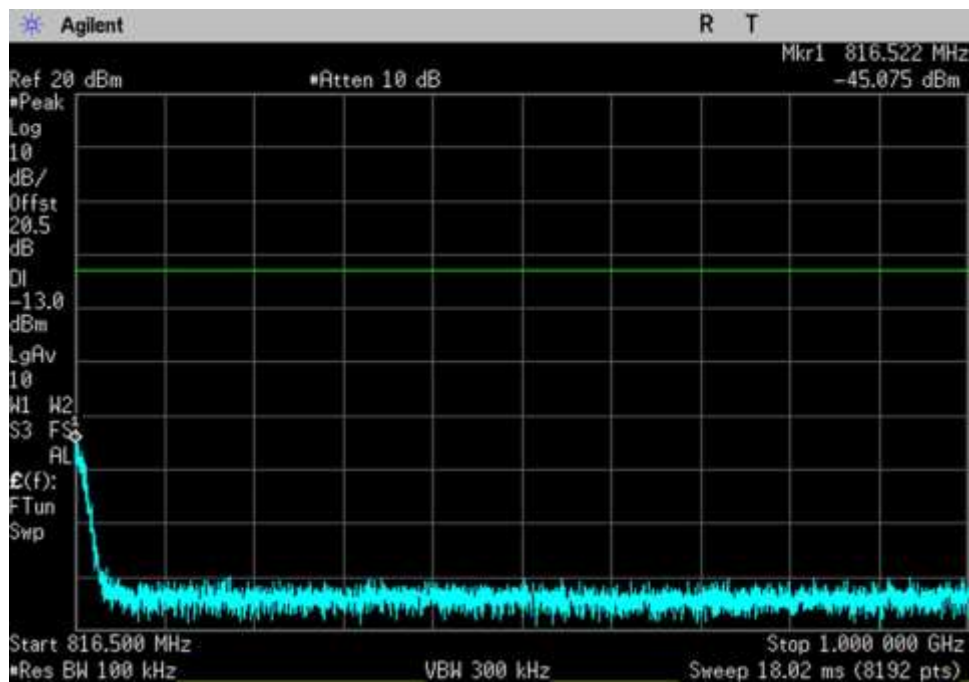
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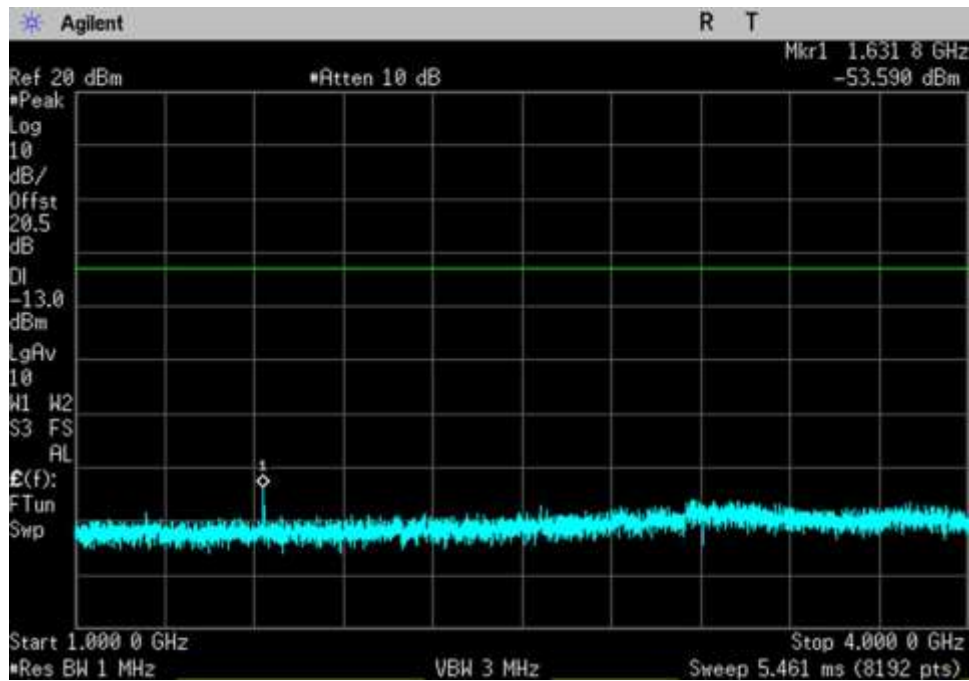
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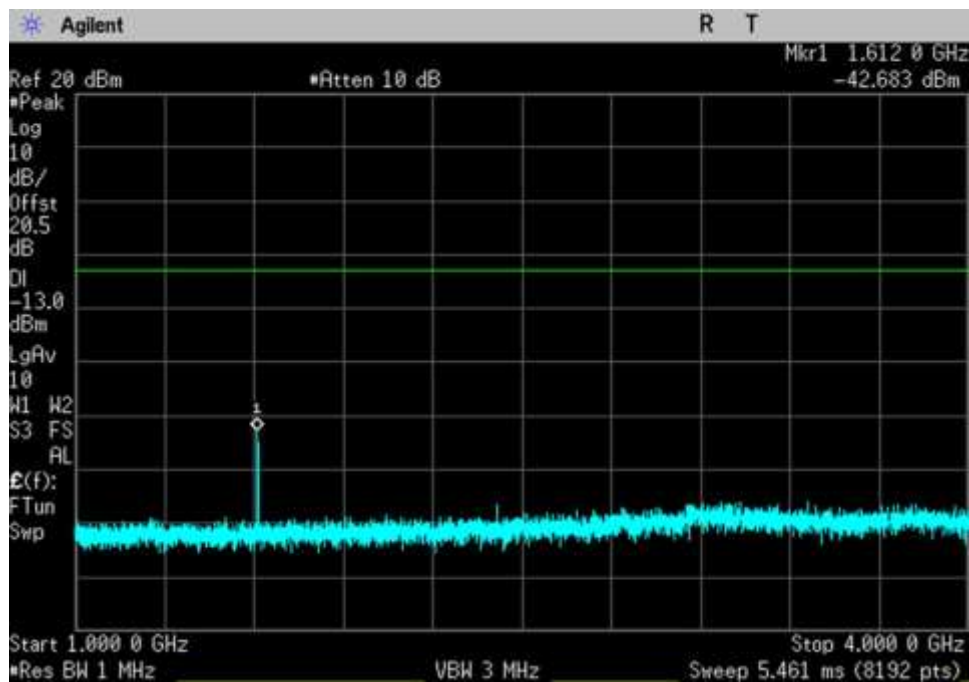
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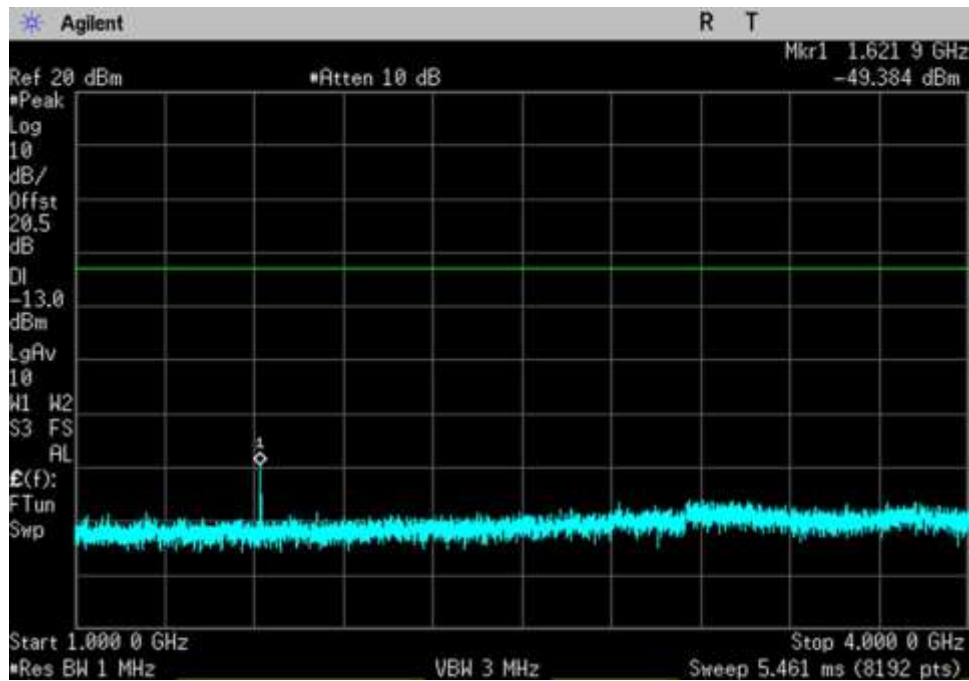
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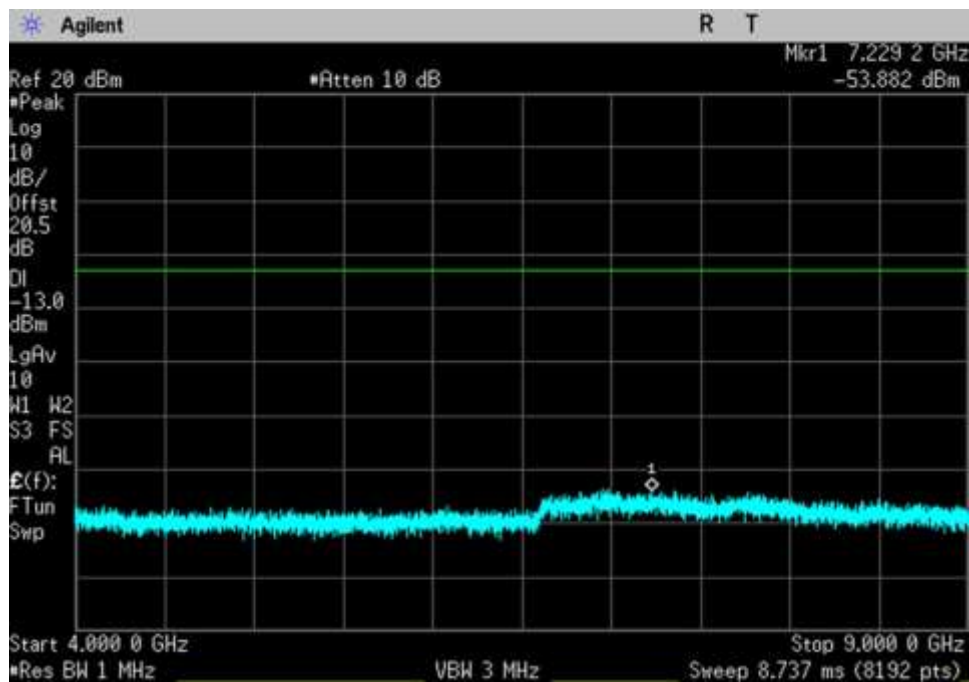
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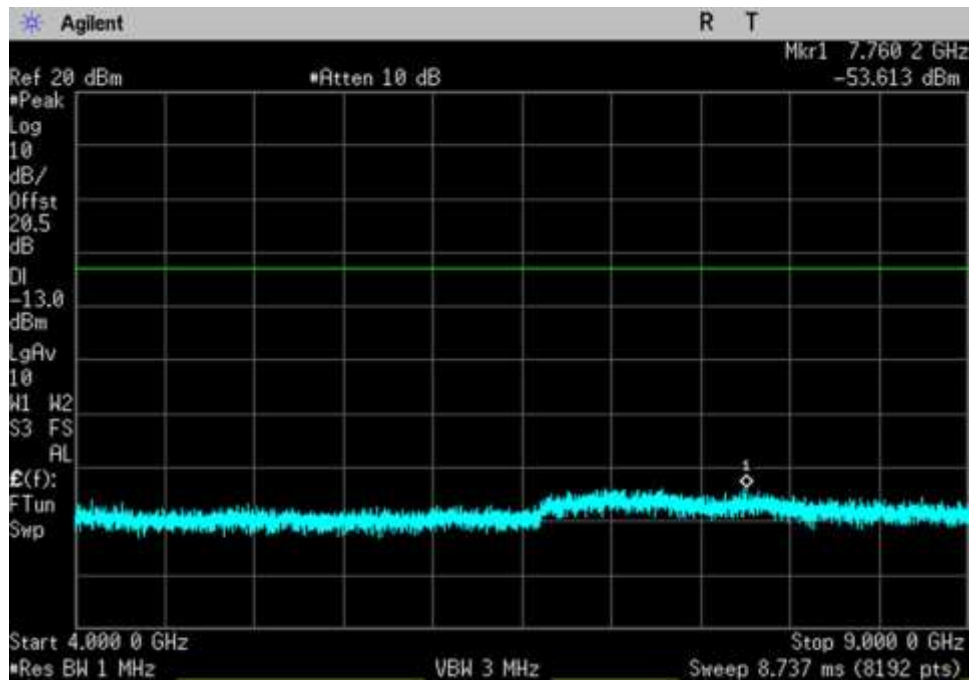
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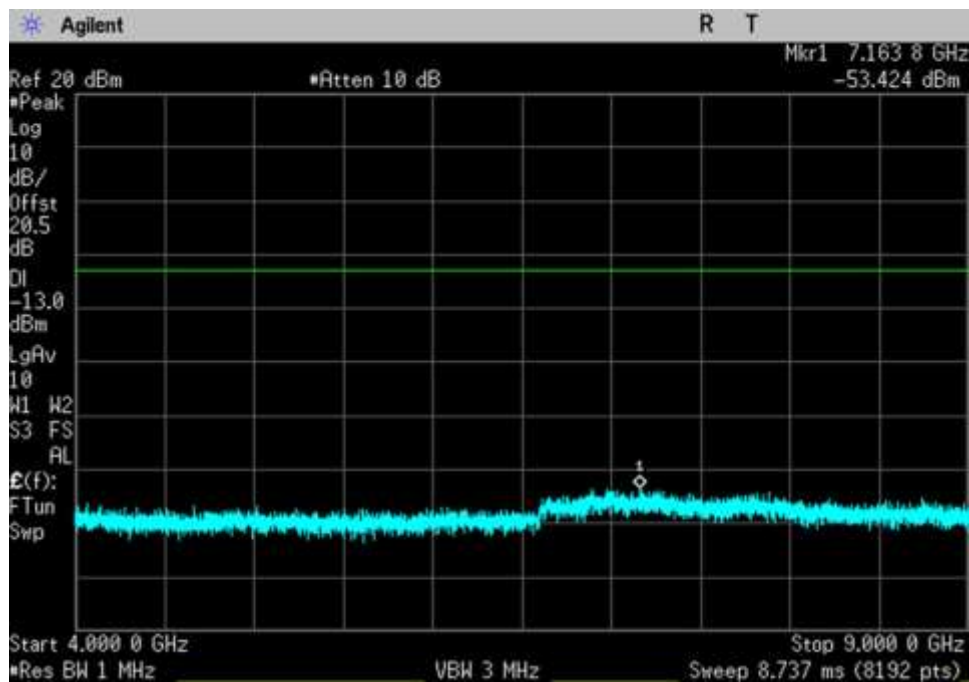
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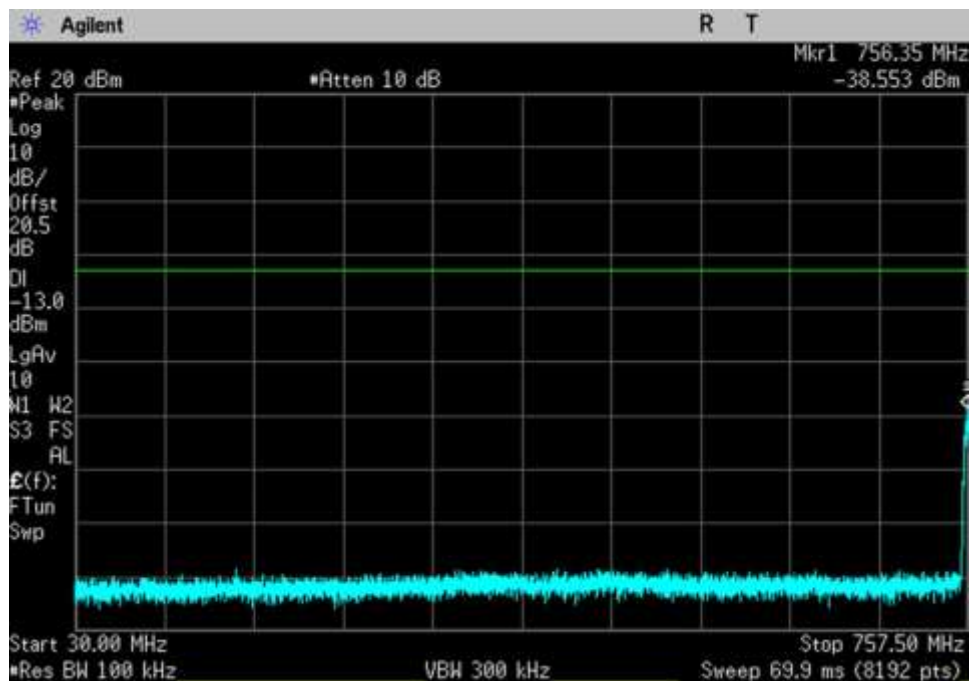
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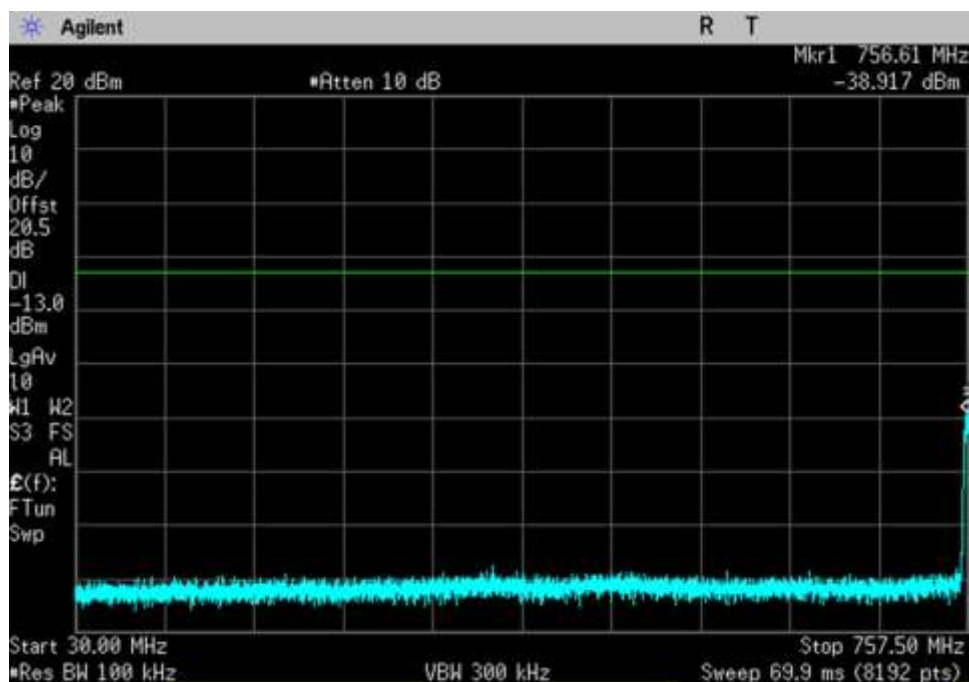
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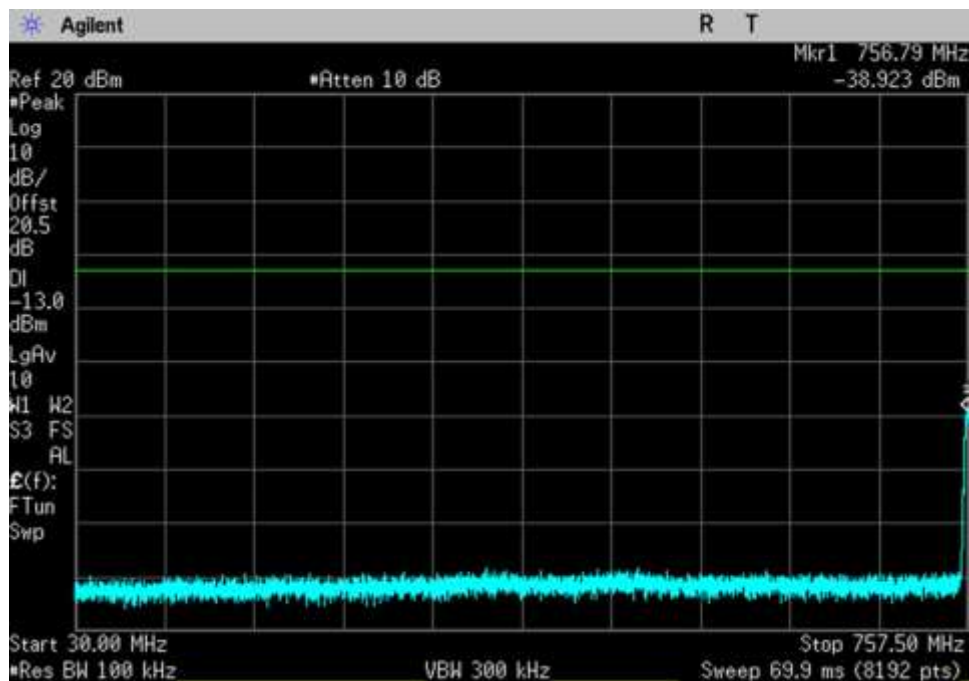
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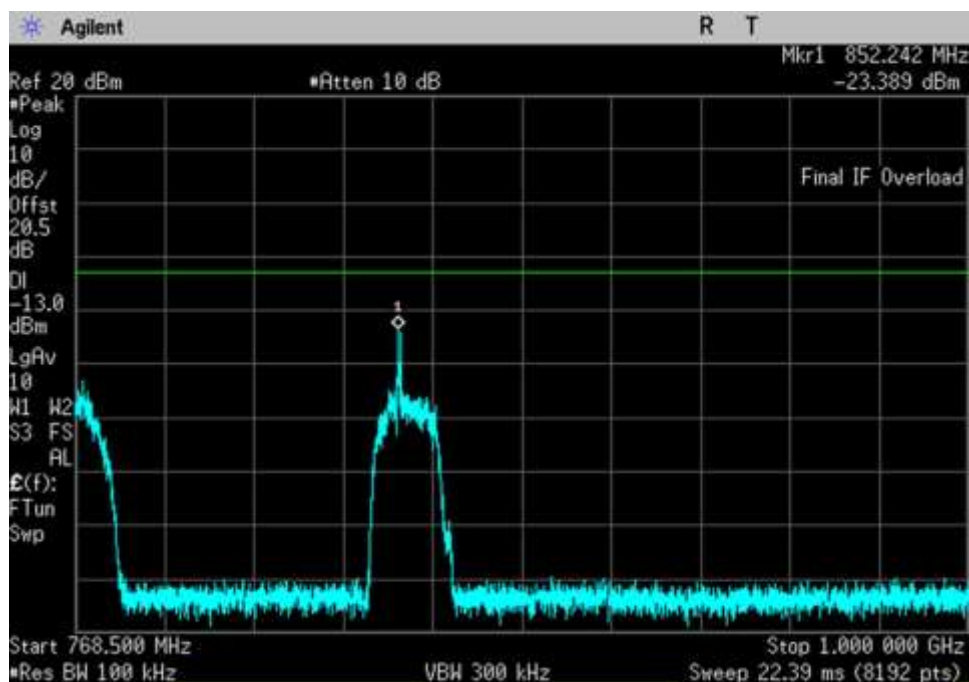
CSE_DL_758-768_30- 757.5MHz_HC



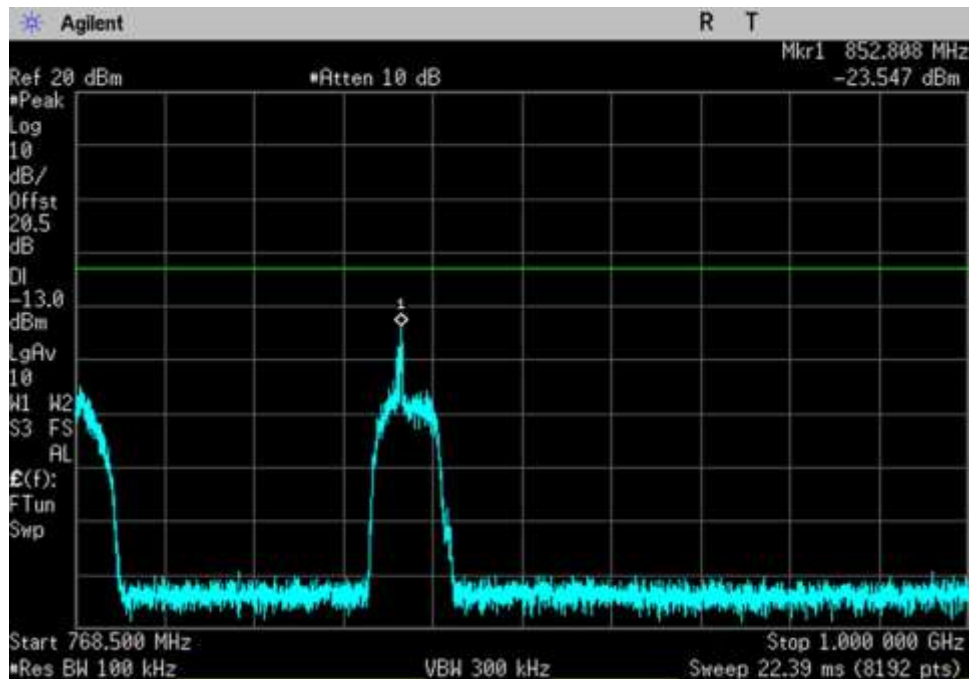
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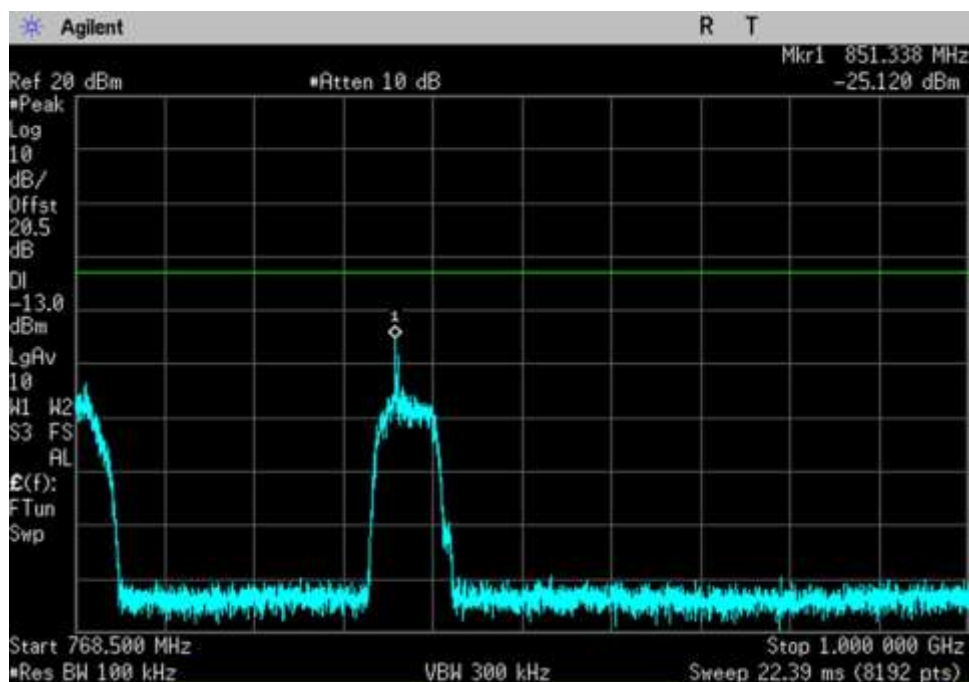
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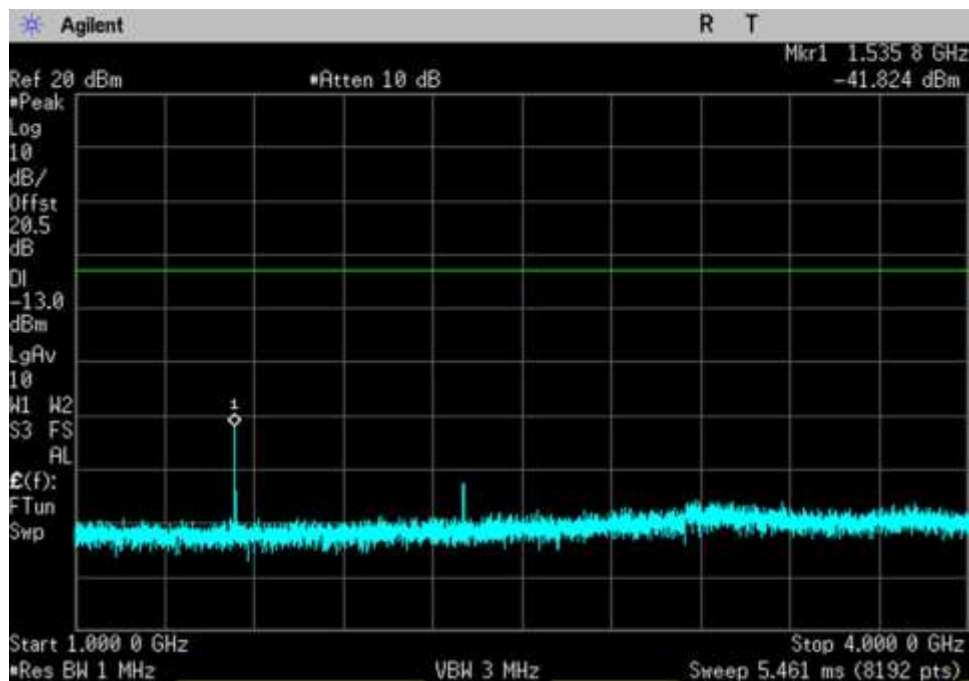
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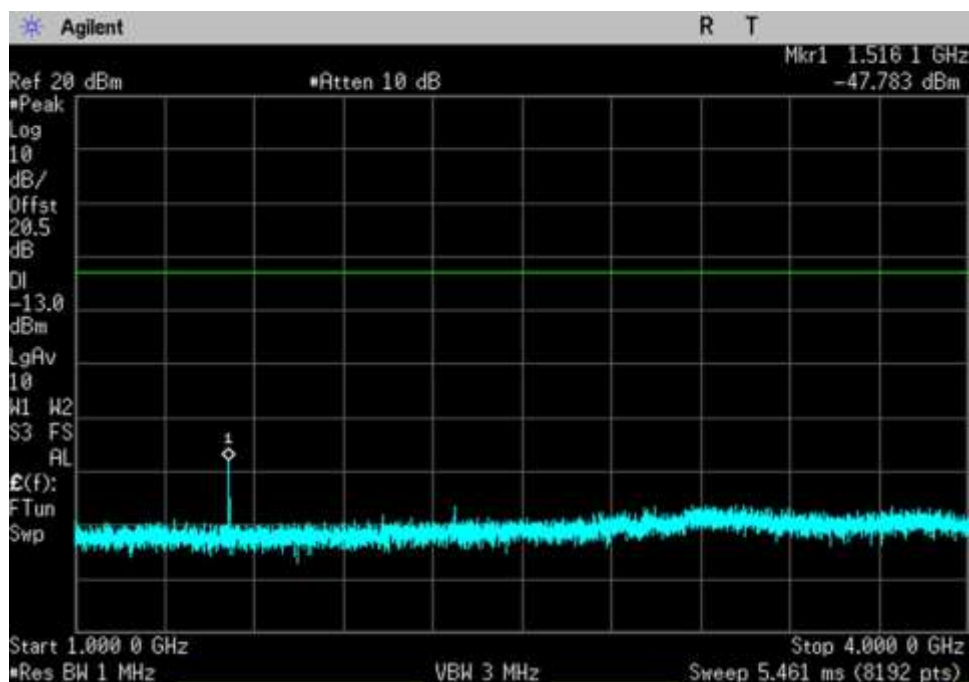
CSE_DL_758-768_ 768.5- 1000MHz_LC



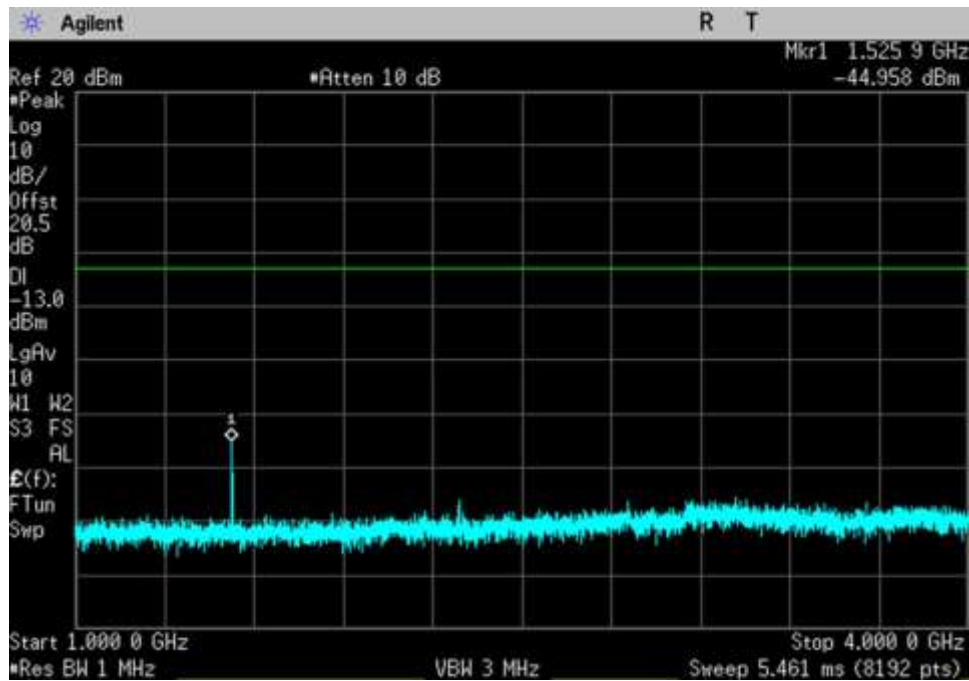
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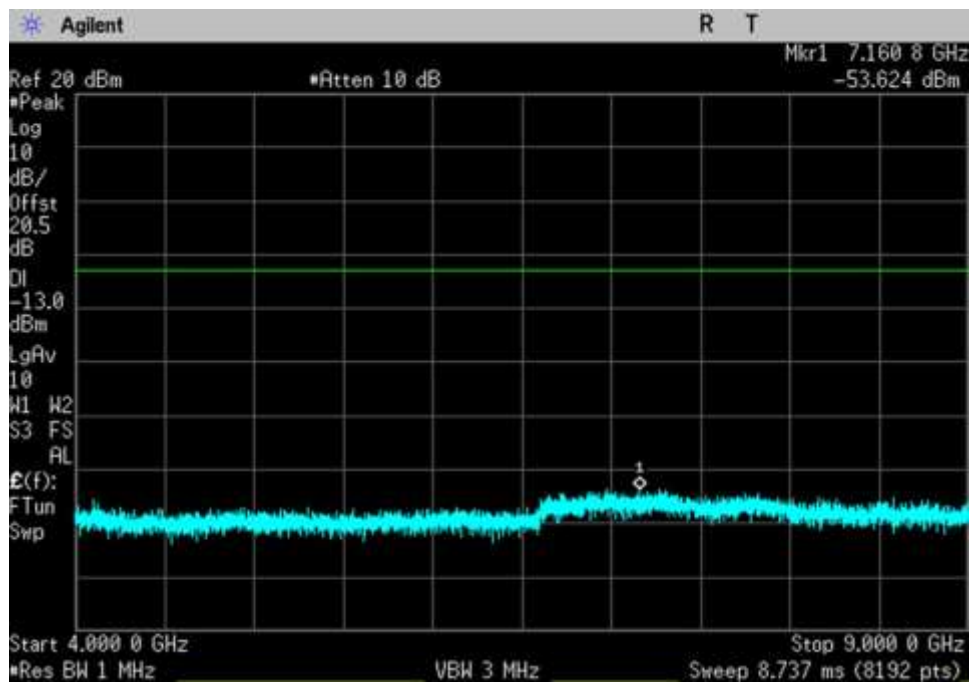
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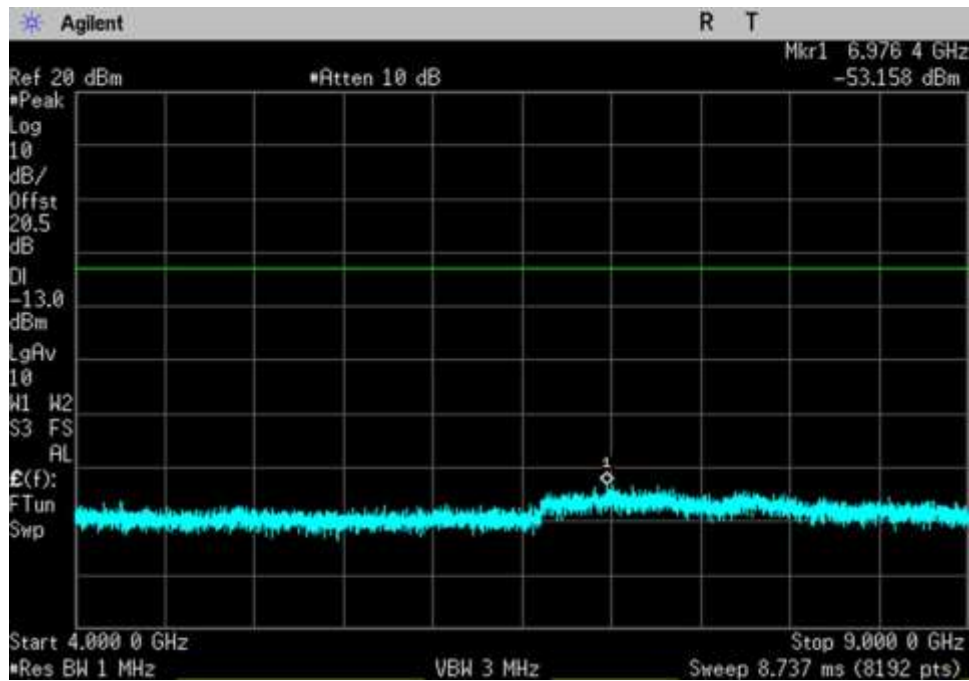
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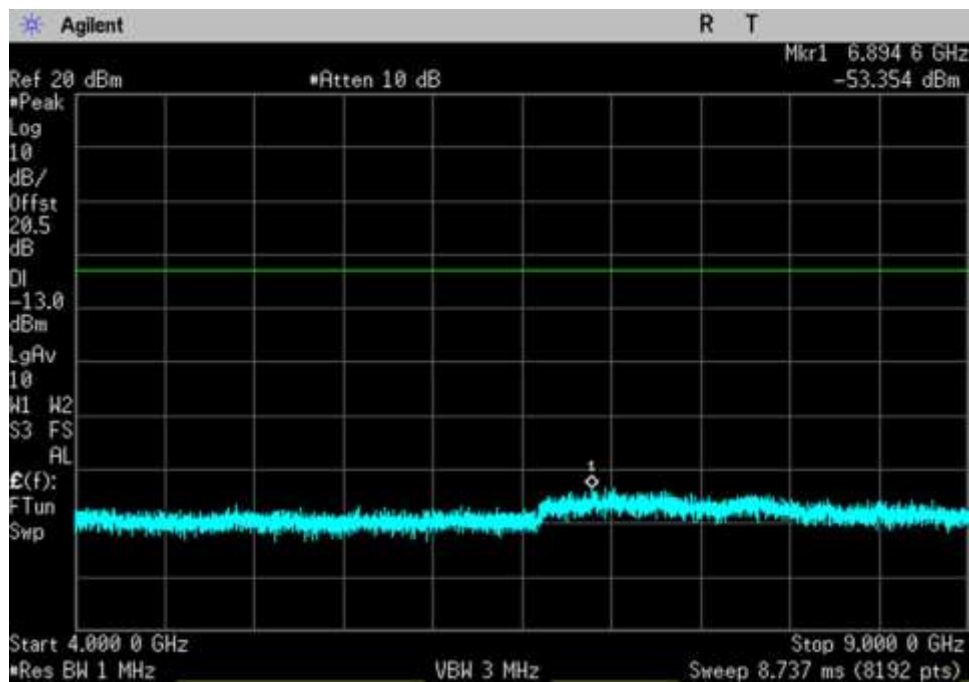
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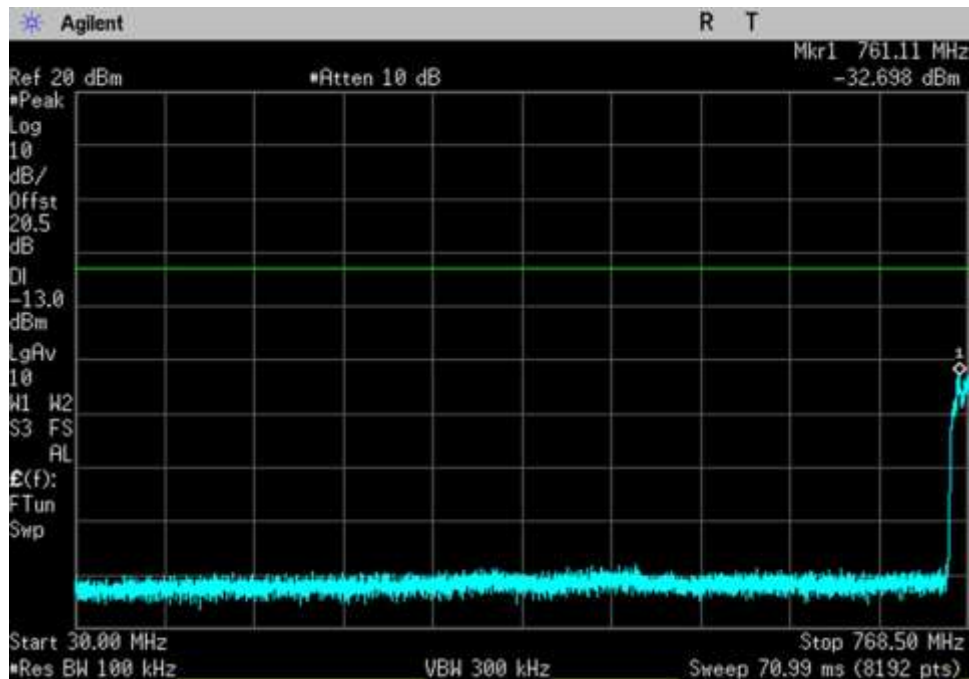
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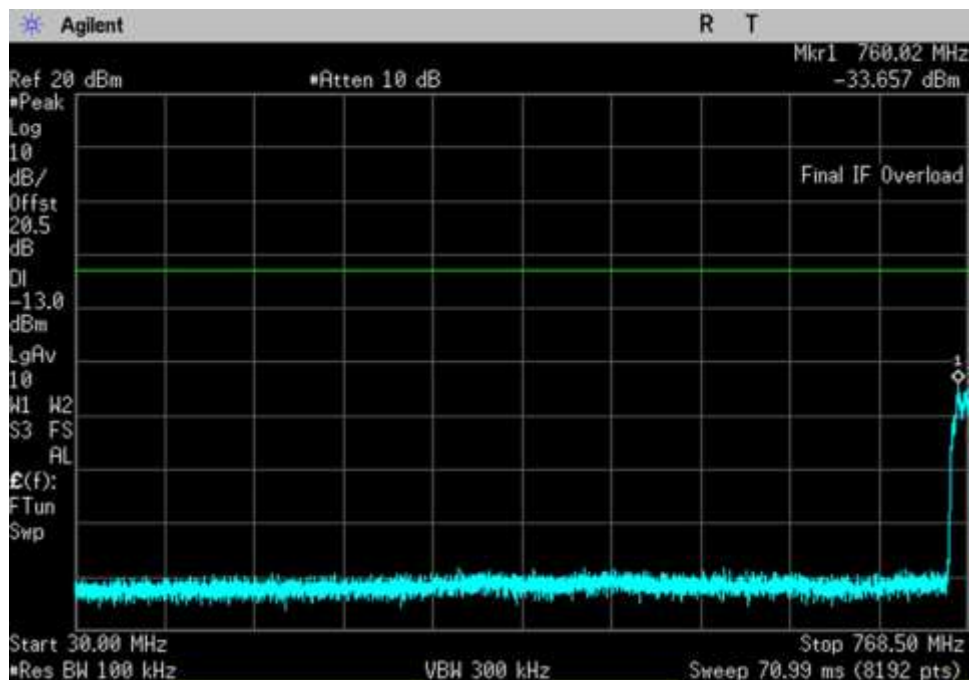
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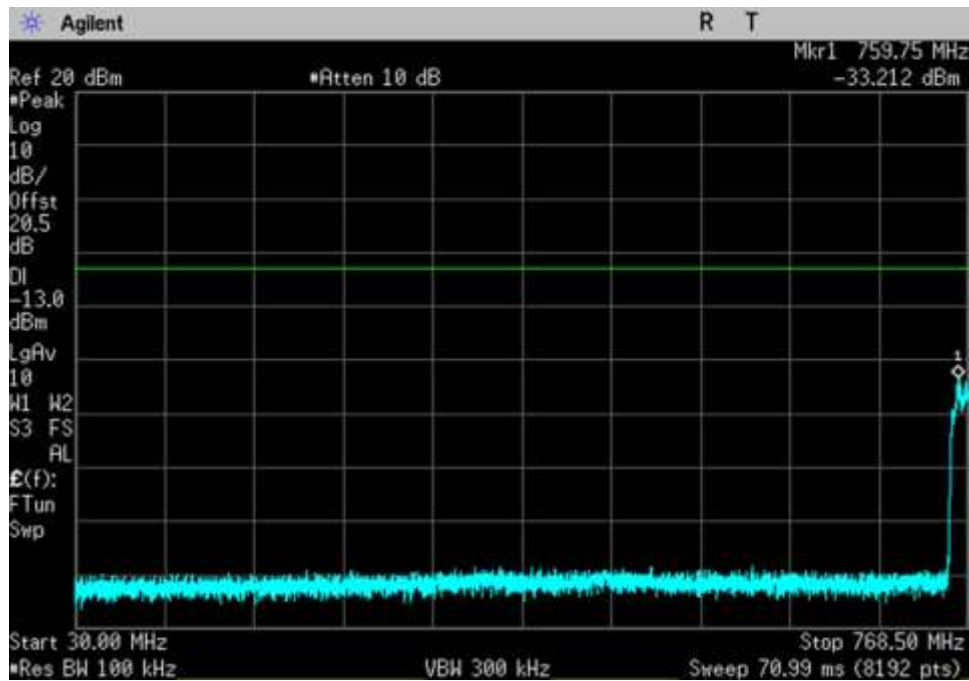
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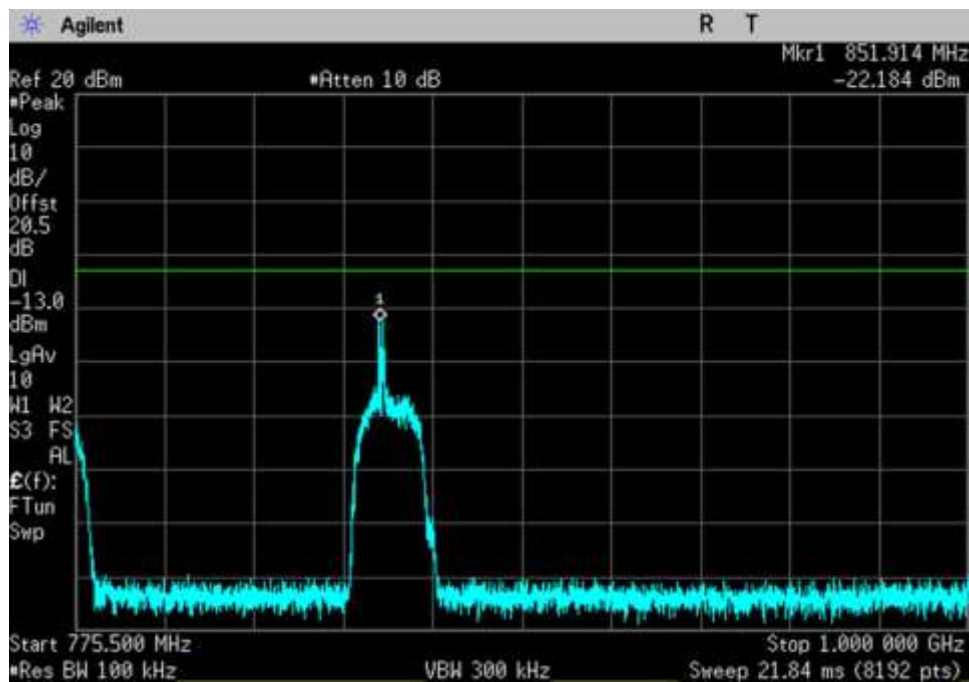
CSE_DL_769-775_30-768.5MHz_HC



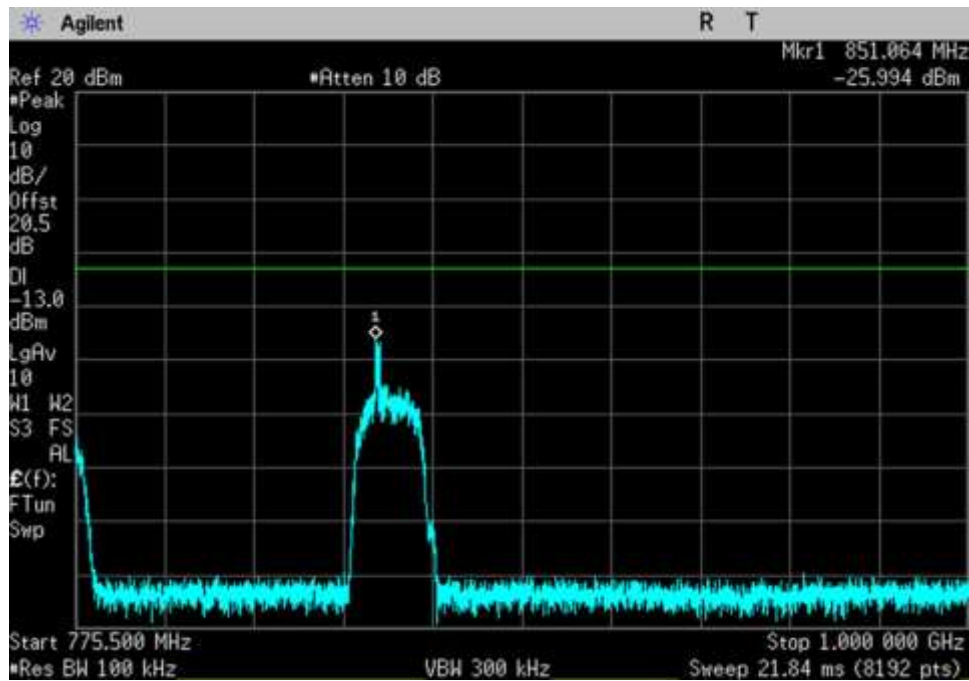
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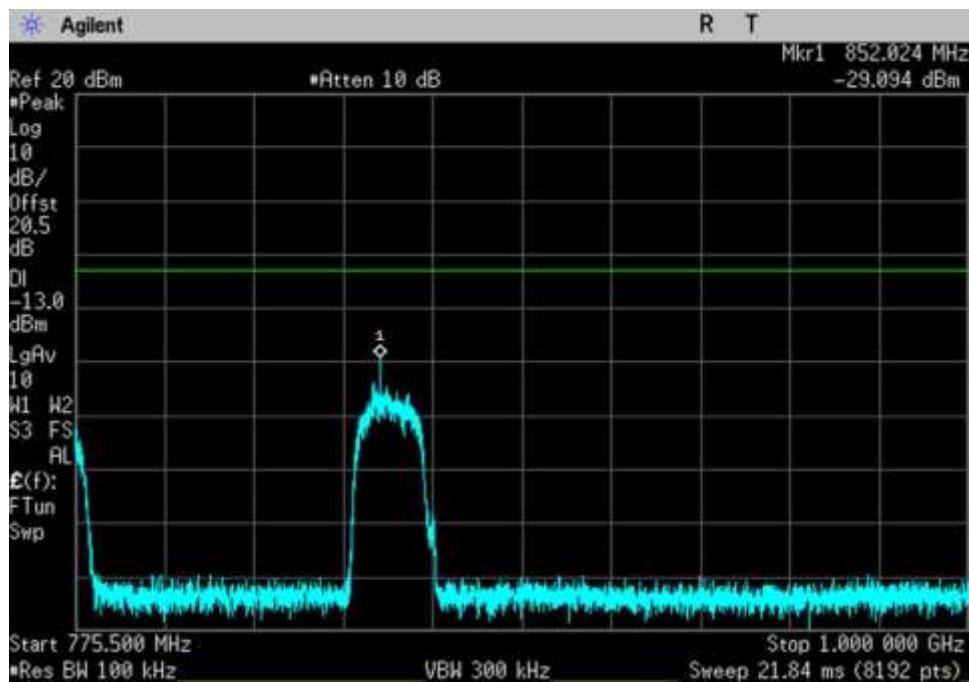
CSE_DL_769-775_30- 768.5MHz_MC



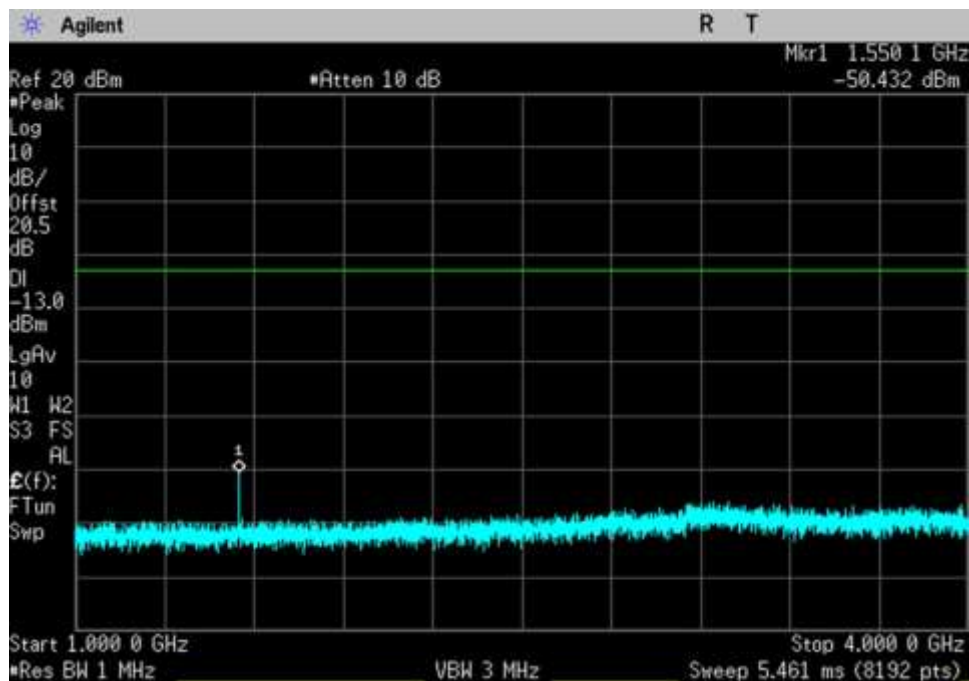
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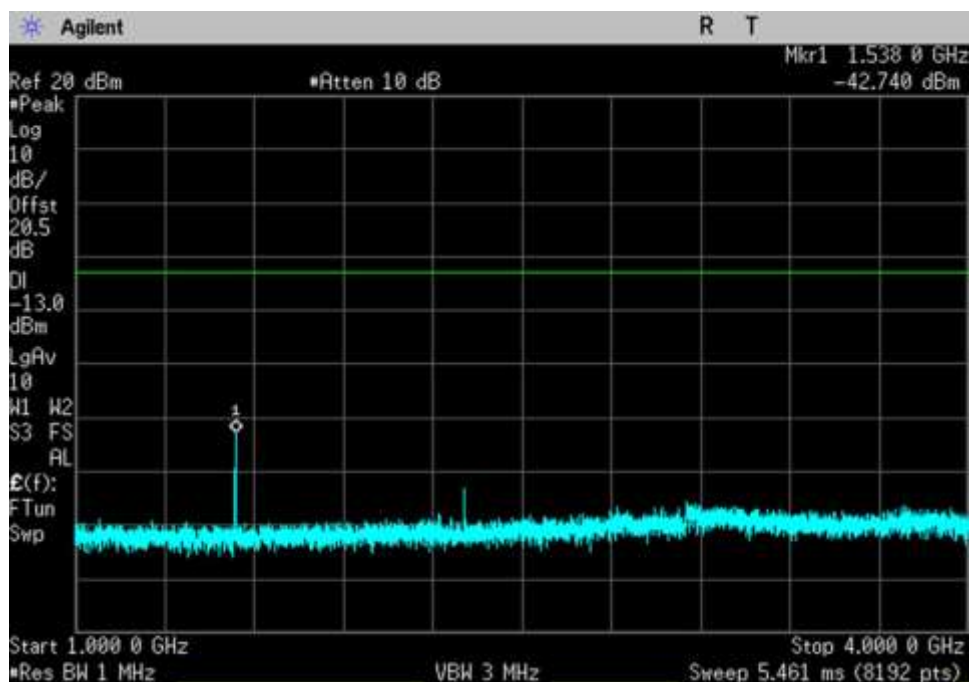
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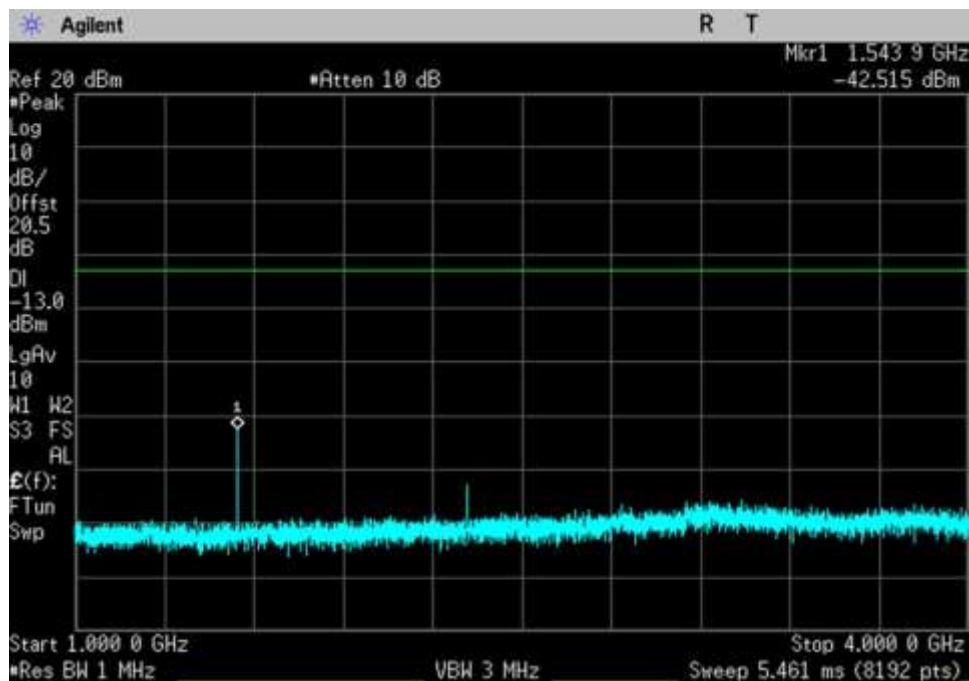
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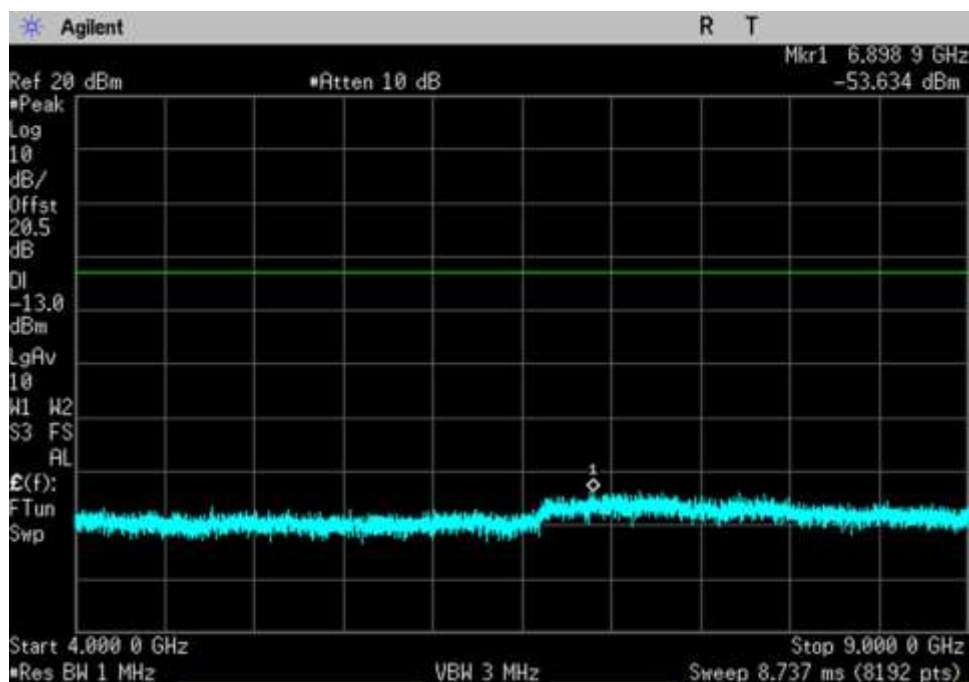
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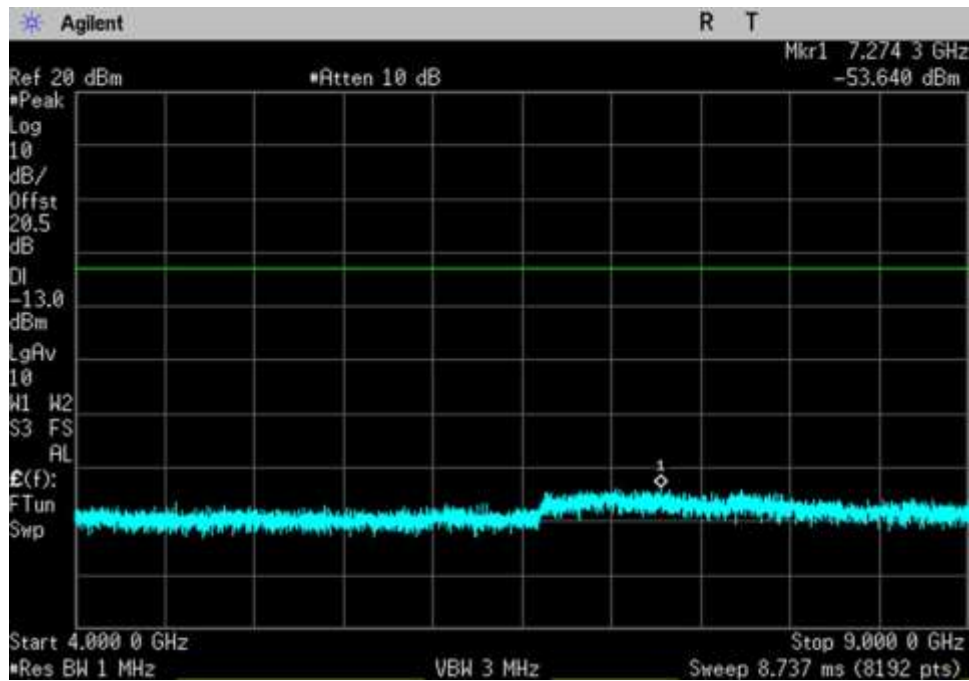
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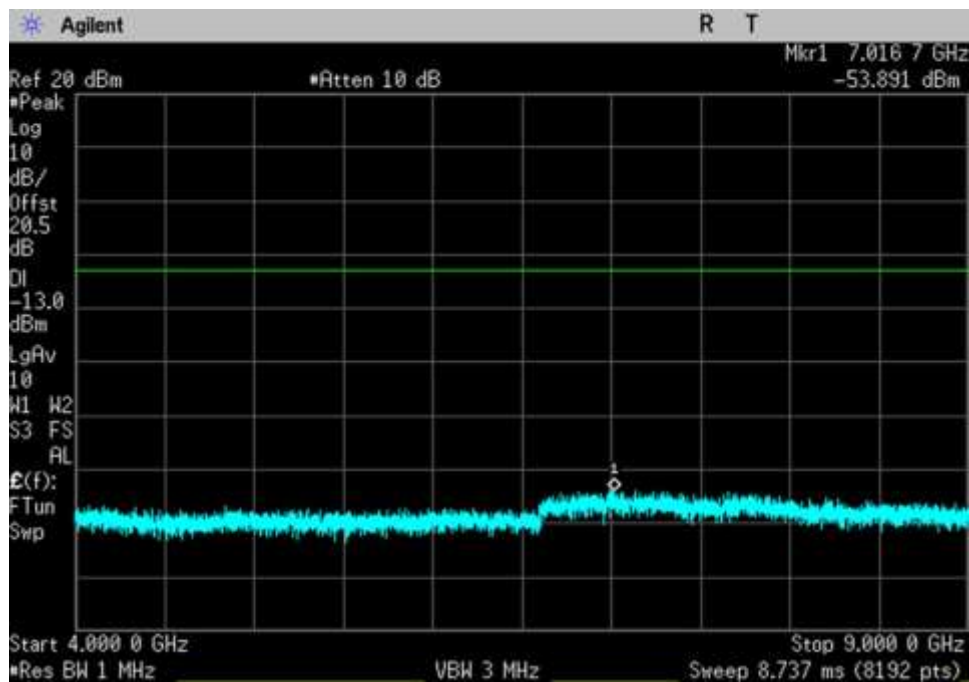
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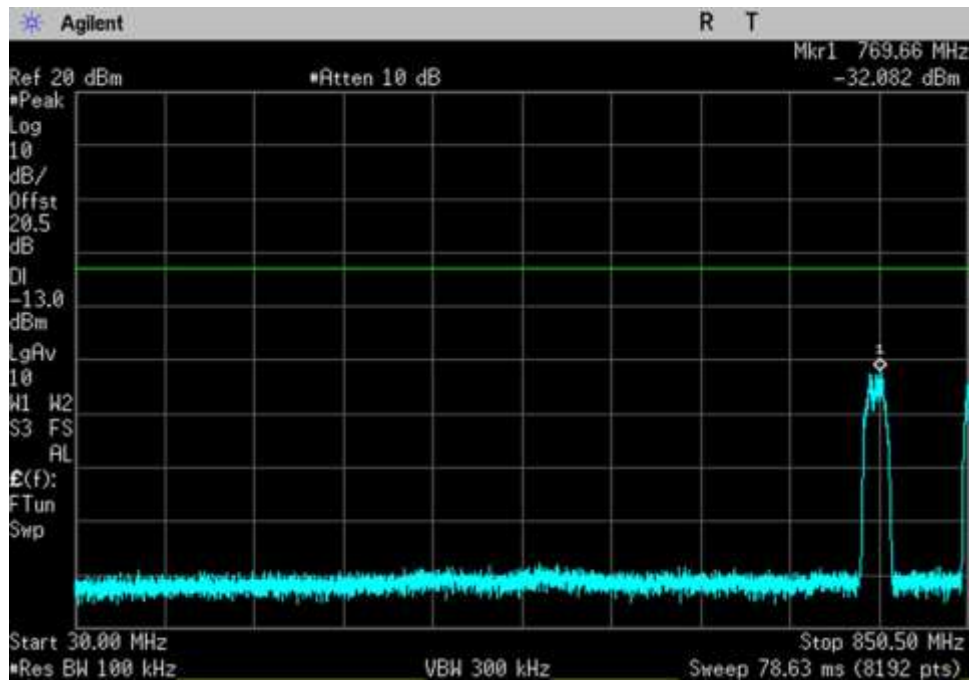
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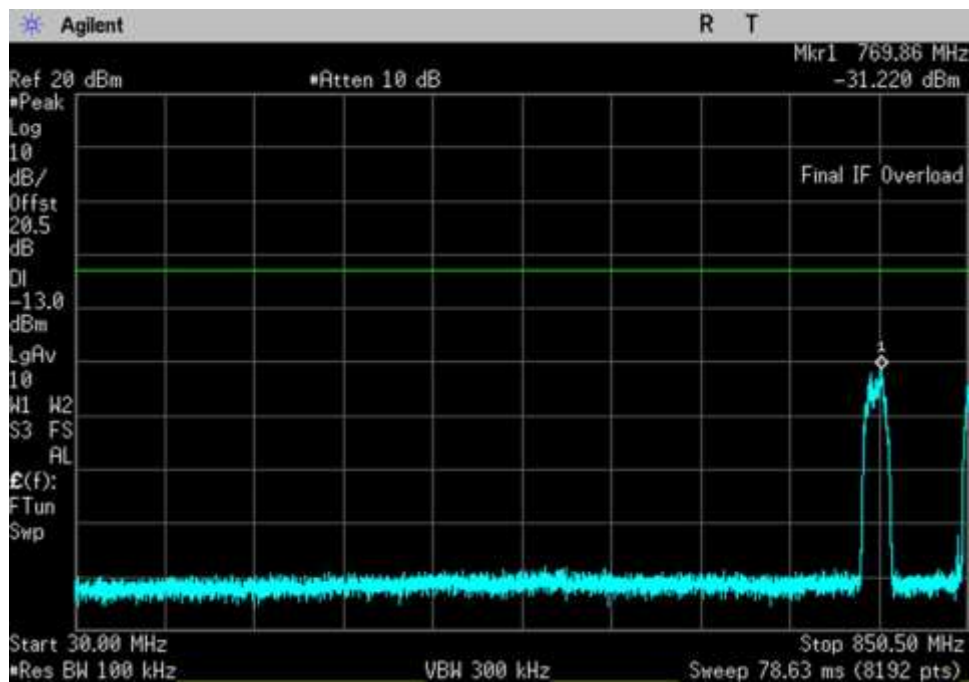
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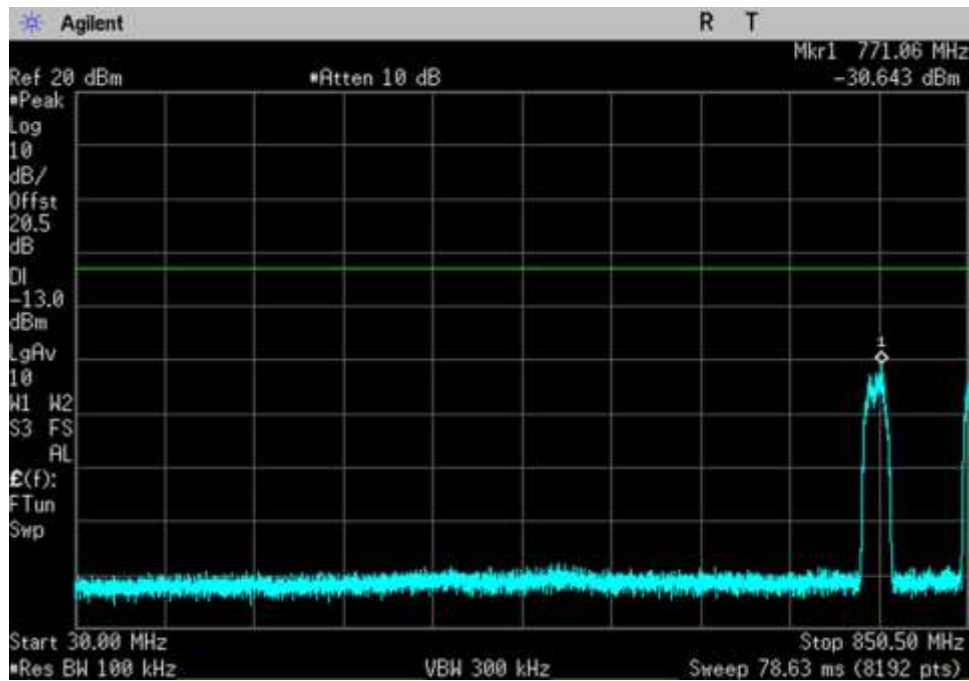
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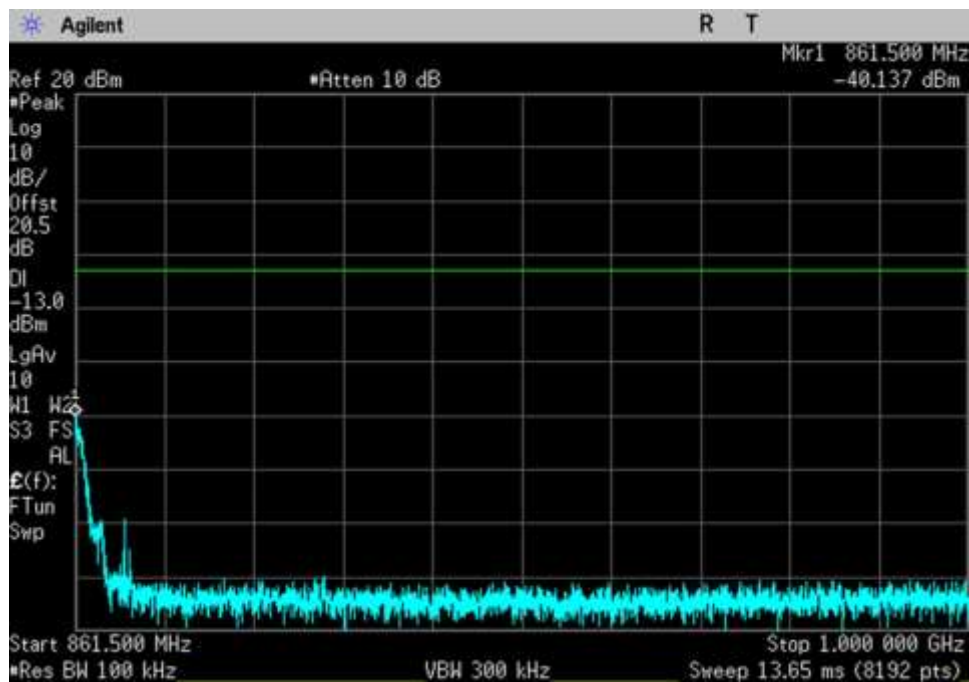
CSE_DL_851-861_30-850.5MHz_HC



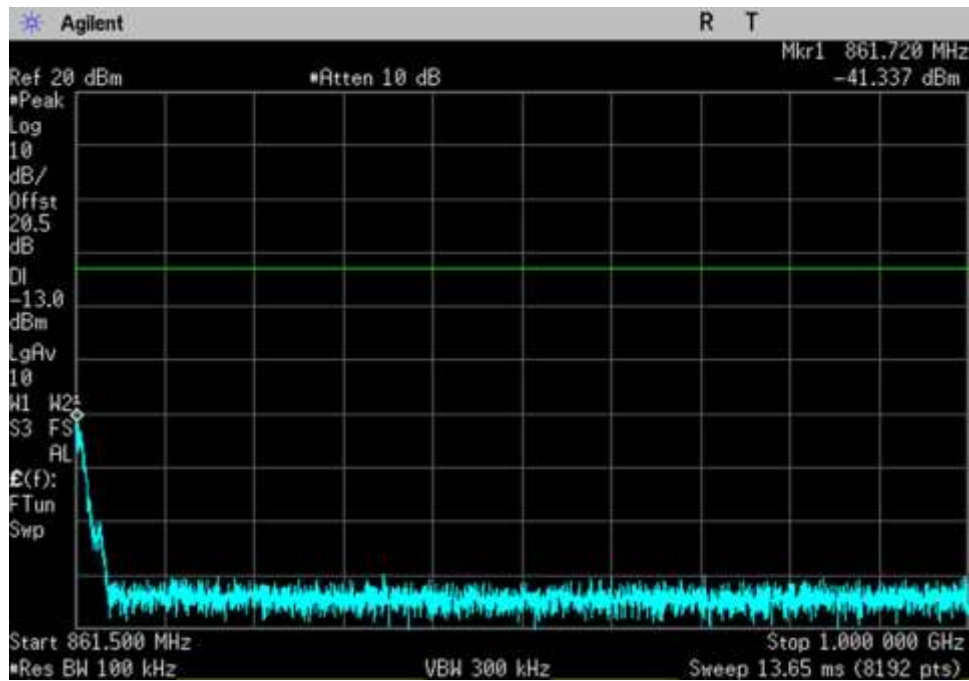
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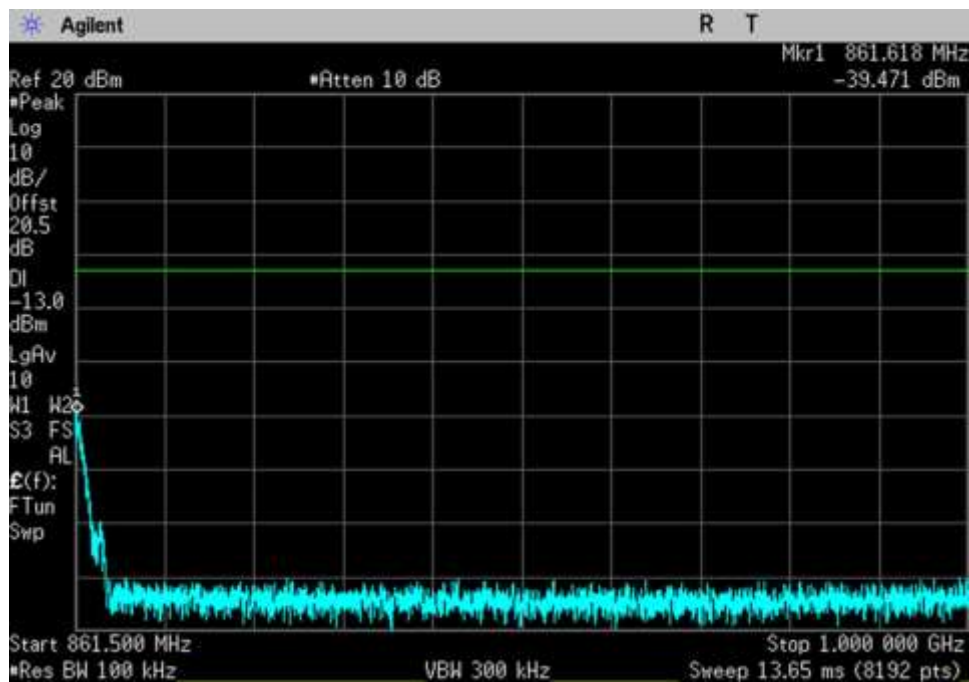
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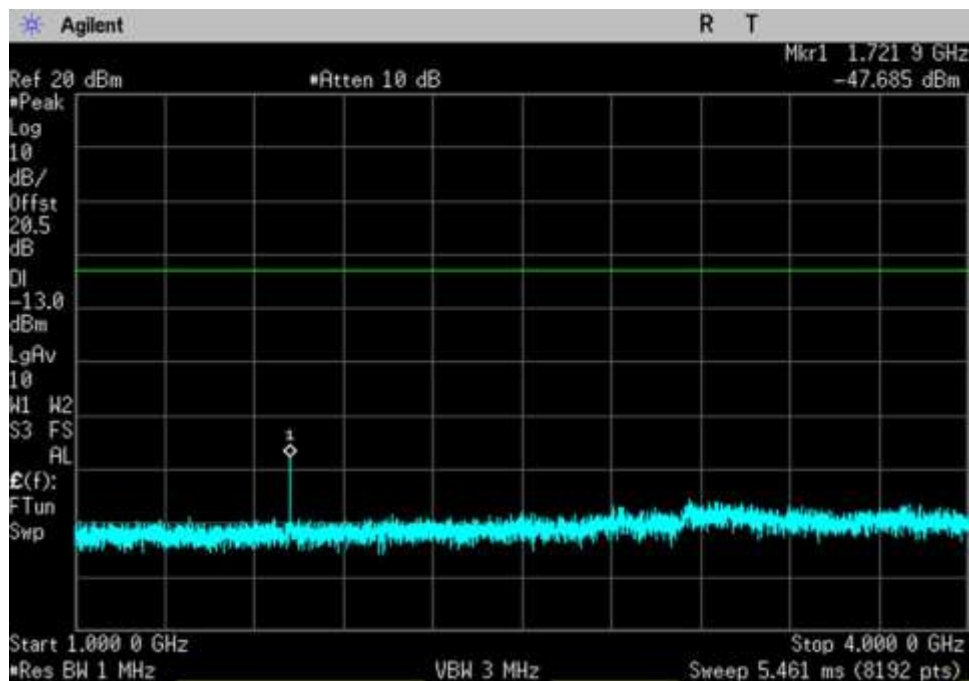
CSE_DL_851-861_ 861.5- 1000MHz_HC



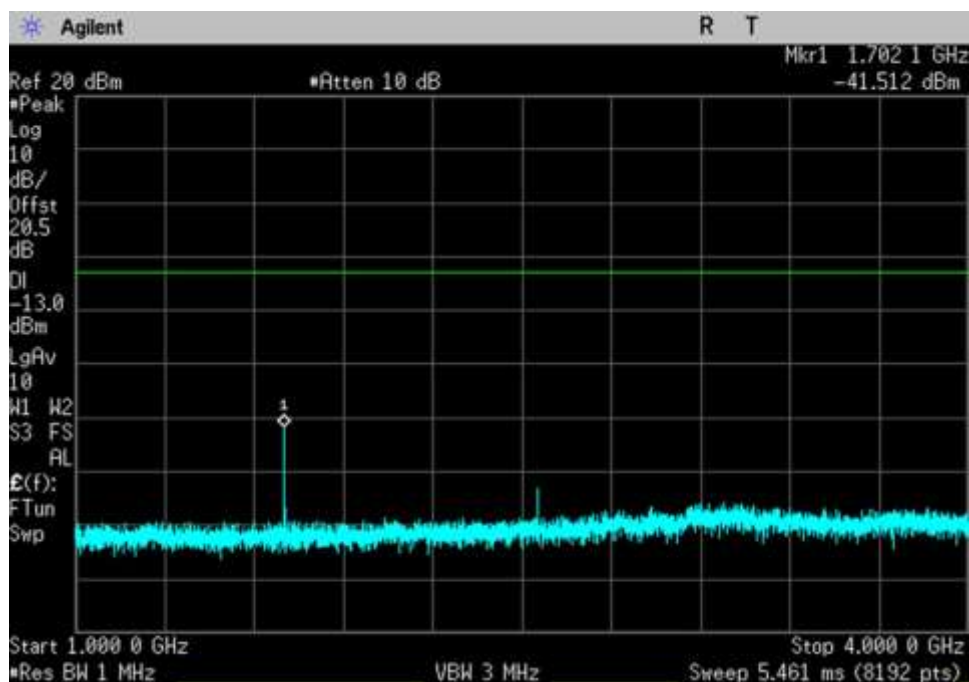
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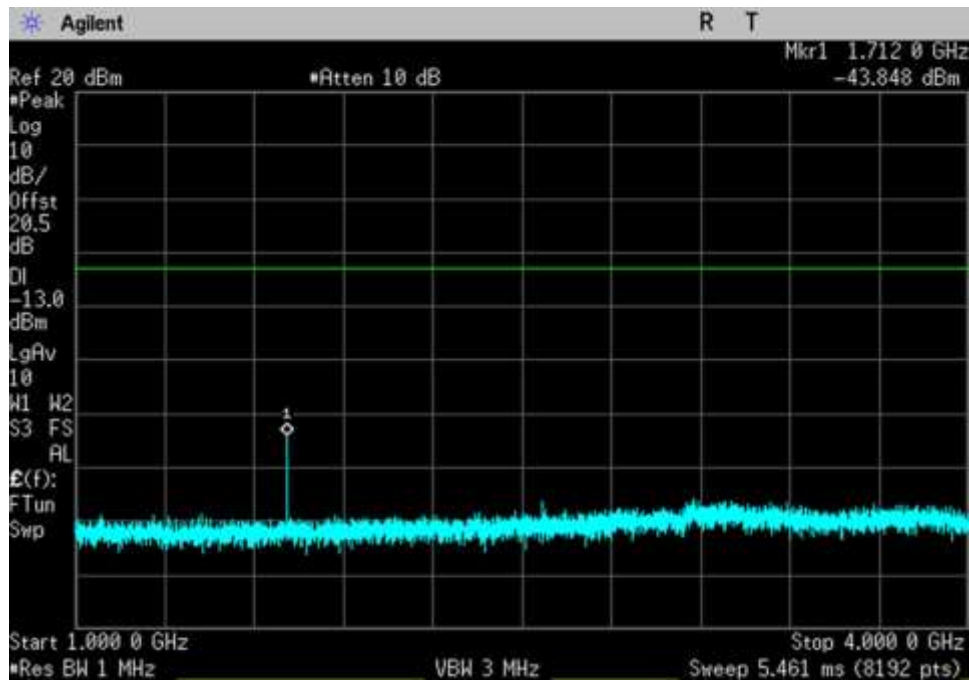
CSE_DL_851-861_ 861.5- 1000MHz_MC



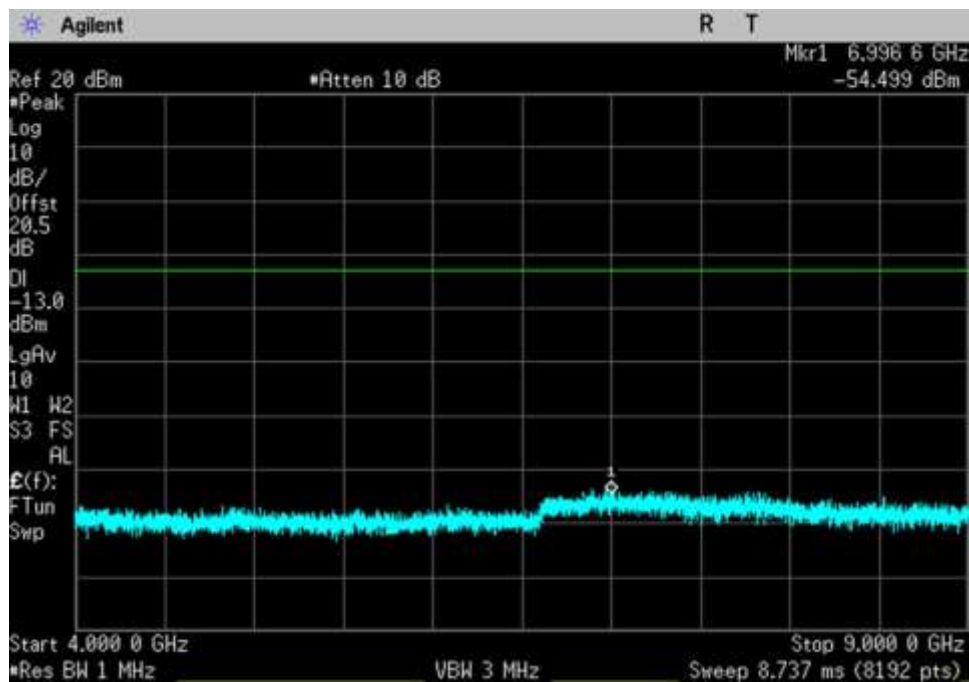
CSE_DL_851-861_1000-4000MHz_HC



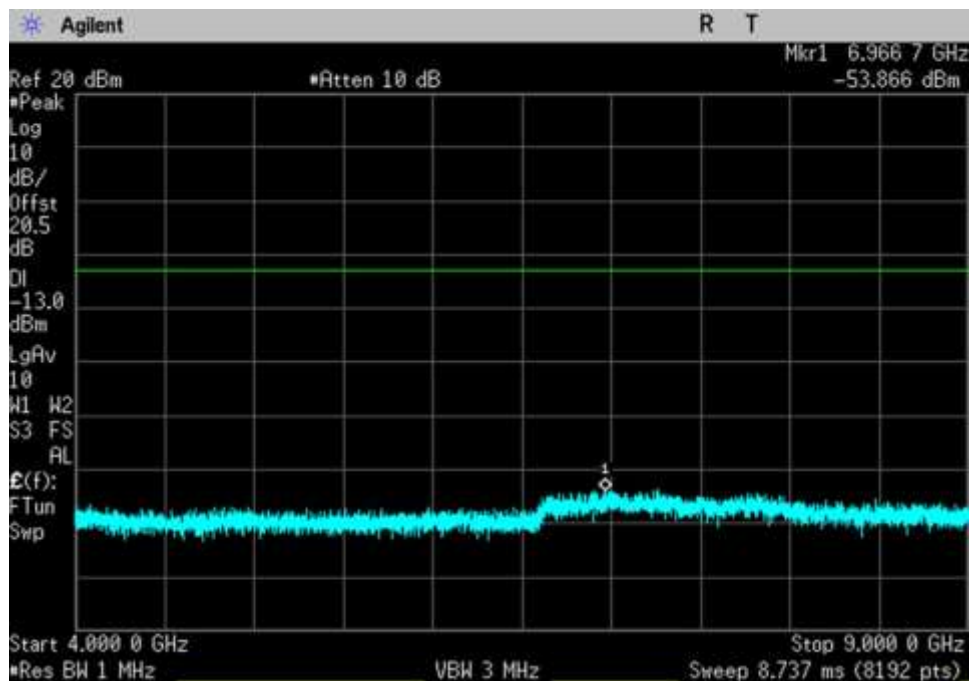
CSE_DL_851-861_1000-4000MHz_LC



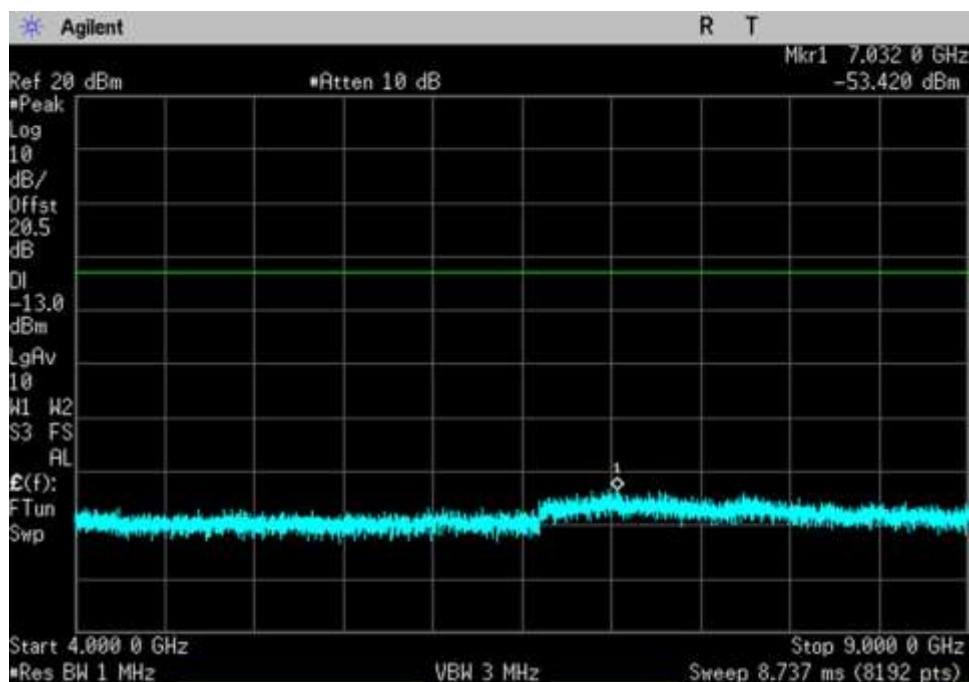
CSE_DL_851-861_1000-4000MHz_MC



CSE_DL_851-861_4000-9000MHz_HC

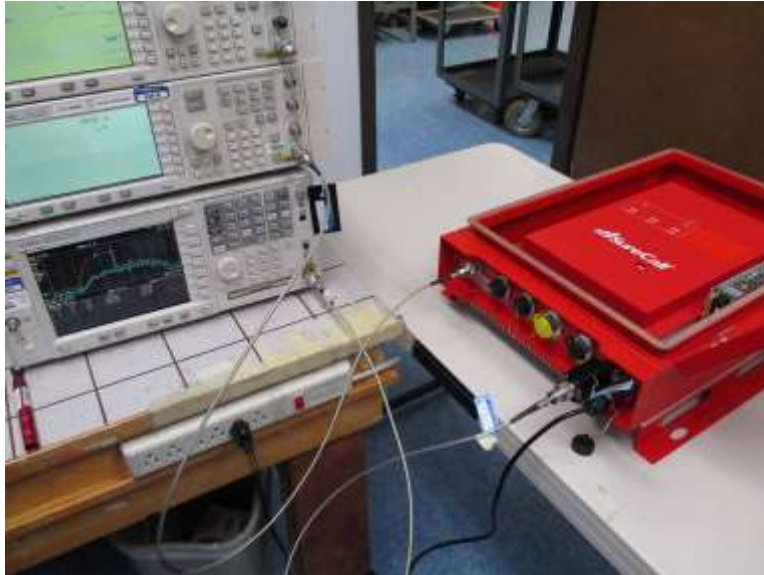


CSE_DL_851-861_ 4000- 9000MHz_LC



CSE_DL_851-861_ 4000- 9000MHz_MC

Test Setup Photo



Part 90: 219(e) Spurious Emissions - Radiated

Engineer: Hieu Song Nguyenpham

Test Date: 6/7/2018

Test Setup:

The equipment under test (EUT) is placed on the Styrofoam table top. The EUT is set at maximum gain.

A remotely located signal generator is connected to input of EUT.

Evaluation of DL path was performed with signal fed into the Outside antenna port while Inside antenna port terminated with 50 Ohm load.

Evaluation of UL path was performed with signal fed into the Inside antenna port while Outside antenna port terminated with 50 Ohm load.

UL: 788-798, 799-805, 806-816 MHz

DL: 758-768, 769-775, 851-861 MHz

Test procedure:

The test was performed in accordance with 47CFR, Section 2.1053 and Appendix D3 of the FCC document: 935210 D05 Indus Booster Basic Meas v01r02 Dated October 27, 2017

TX Frequency = > Low, Middle and High of above listed bands.

Modulation=> CW

Frequency range of measurement = 9kHz- 10GHz.

9 kHz - 150 kHz -> RBW=200 Hz VBW=200 Hz

150 kHz - 30 MHz -> RBW=9 kHz VBW=9 kHz

30 MHz - 1000MHz -> RBW=120 kHz VBW=120 kHz

1000 MHz-10000MHz -> RBW=1 MHz VBW=1 MHz

No spurious emissions were found within 20dB of the limit line.

Emissions in the band 1559-1610 MHz were investigated and these were not found within 20dB of the limit line.

Test Equipment					
Asset#	Description	Manufacturer	Model	Cal Date	Cal Due
01996	Biconilog Antenna	Chase	CBL6111C	11/1/2016	11/1/2018
P00880	Cable	Pasternack	RG214U	5/14/2018	5/14/2020
P06691	Cable	Pasternack	PE3062-180	5/14/2018	5/14/2020
P06049	Attenuator	Pasternack	PE7002-6	5/14/2018	5/14/2020
00501	Preamp	HP	8447F	1/6/2017	1/6/2019
P01187	Cable	Andrews	CNT-195	8/8/2016	8/8/2018
02113	Horn Antenna	EMC Test Systems	3115	2/6/2017	2/6/2019
03607	Preamp	Miteq	AMF-7D-00101800-30-10P	6/6/2017	6/6/2019
P01210	Cable	Andrews	FSJ1P-50A-4A	1/16/2017	1/16/2019
P06903	Cable	Astrolab	32022-29094K-29094K-36TC	1/4/2018	1/4/2020
03302	Cable	Astrolab	32026-29094K-29094K-72TC	1/15/2018	1/15/2020
03470	Spectrum Analyzer	Agilent	E4440A	1/3/2018	1/3/2020
P07192	Cable	Astro	32022-29094K-29094K-48TC	10/9/2017	10/9/2019
03418	Signal Generator	Agilent	E4438C	6/19/2017	6/19/2019
P06797	Attenuator	Narda	766-20	4/10/2017	4/10/2019
00432	Loop Antenna	EMCO	6502	5/30/2017	5/30/2019

Environmental Conditions					
Temperature (°C)	23.5	Relative Humidity (%):	48	Atmospheric Pressure (kPa):	102.5

Summary of Results

Pass: No data provided since all emissions were found more than 20dB below the limit.

Limit Line for Spurious Radiated Emission

REQUIRED ATTENUATION = 43+10 LOG P (DB)

For radiated spurious emission measured at 3 meter test distance.

Required attenuation = 43+10 Log P_t at 3 meter dB

Limit line (dBuV) = E_{dBuV} - Attenuation

E_{dBuV} = Measured field strength at 3 meter in dBuV/m

Power Density (Isotropic)

$$P_D = \frac{P_t}{4\pi r^2}$$

P_D = Power Density in Watts /m²

P_t = Average Transmit Power

r = Test distance

Field Intensity E (V/m)

$$E = \sqrt{P_D \times 377}$$

$$E = \frac{\sqrt{P_t \times 377}}{4\pi r^2}$$

$$E = \sqrt{\frac{P_t \times 30}{r^2}}$$

$$P_t = \left(\frac{E^2 \times r^2}{30} \right)$$

$$10 \log P_t = 10 \log E^2 (V/m) + 10 \log r^2 - 10 \log 30$$

$$10 \log P_t = 20 \log E (V/m) + 20 \log r - 10 \log 30$$

At 3 meter, $r = 3$ m

$$10 \log P_t = 20 \log E (V/m) + 20 \log 3 - 10 \log 30$$

$$10 \log P_t = 20 \log E (V/m) + 9.54 - 14.77$$

$$10 \log P_t = 20 \log E (V/m) - 5.23$$

Since $20 \log E \text{ (V/m)} = 20 \log E \text{ (uV/m)} - 120$

$$10 \log P_t = 20 \log E \text{ (uV/m)} - 120 - 5.23$$

$$10 \log P_t = 20 \log E \text{ (uV/m)} - 125.23$$

$$\begin{aligned} \text{Limit line (dBuV) at 3 meter} &= E_{\text{dBuV}} - \text{Attenuation} \\ &= E_{\text{dBuV}} - (43 + 10 \log P_{t \text{ at 3 meter}}) \\ &= E_{\text{dBuV}} - 43 - 10 \log P_{t \text{ at 3 meter}} \\ &= E_{\text{dBuV}} - 43 - (20 \log E \text{ (uV/m)} - 125.23) \\ &= E_{\text{dBuV}} - 43 - 20 \log E \text{ (uV/m)} + 125.23 \\ &= E_{\text{dBuV}} - 20 \log E \text{ (uV/m)} + 82.23 \end{aligned}$$

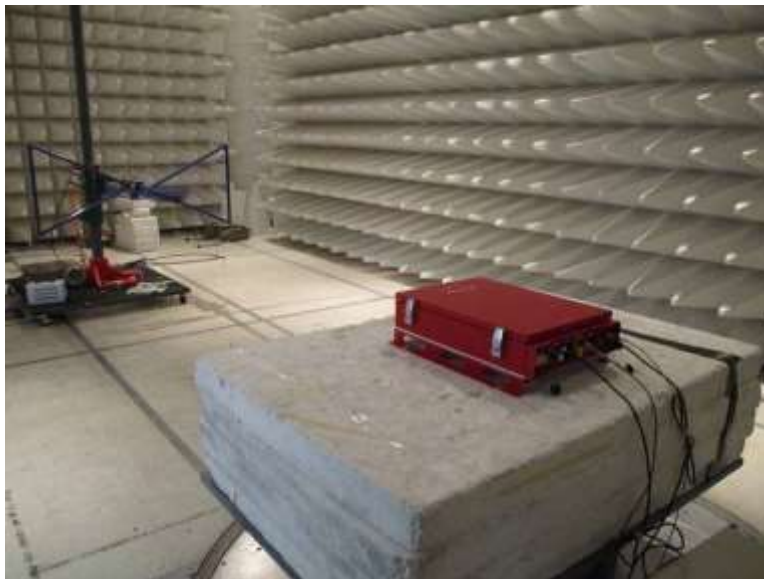
$$\text{Since } 20 \log E \text{ (uV/m)} = E \text{ in dBuV/m} = E_{\text{dBuV}} - E_{\text{dBuV}} + 82.23$$

$$\text{Radiated Emission limit 3 meter} = 82.23 \text{ dBuV at any power level measured in dBuV}$$

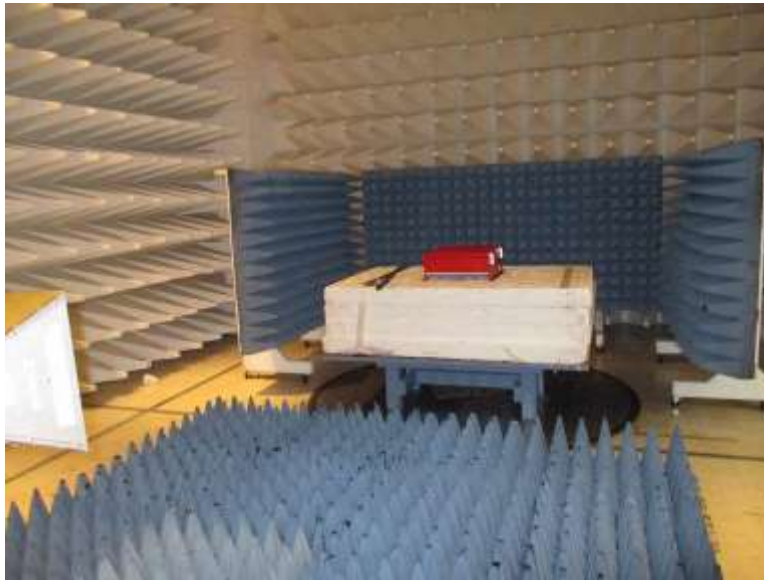
Test Setup Photos



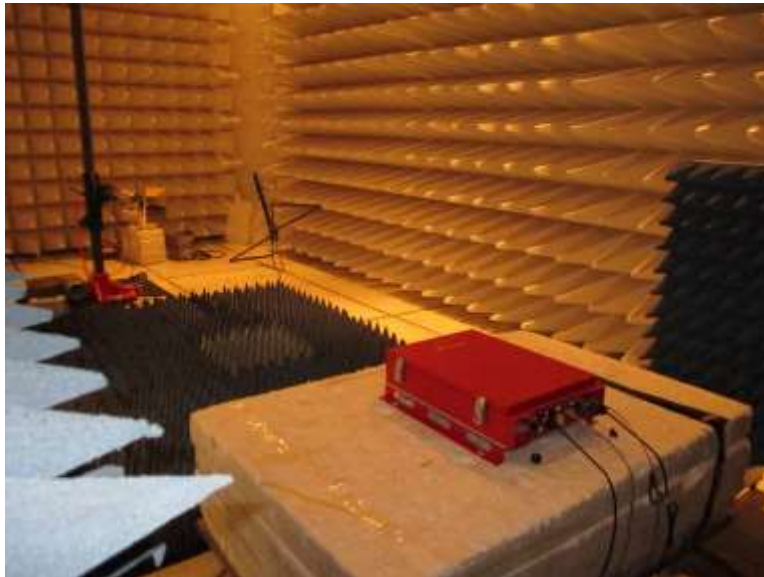
30MHz - 1GHz



30MHz – 1GHz



1 – 10GHz Cone placement



1 – 10GHz Cone placement

SUPPLEMENTAL INFORMATION

Measurement Uncertainty

Uncertainty Value	Parameter
4.73 dB	Radiated Emissions
3.34 dB	Mains Conducted Emissions
3.30 dB	Disturbance Power

Uncertainties reported are worst case for all CKC Laboratories' sites and represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k=2$. Compliance is deemed to occur provided measurements are below the specified limits.