



# Appendix A: 20dB Emission Bandwidth (EBW)



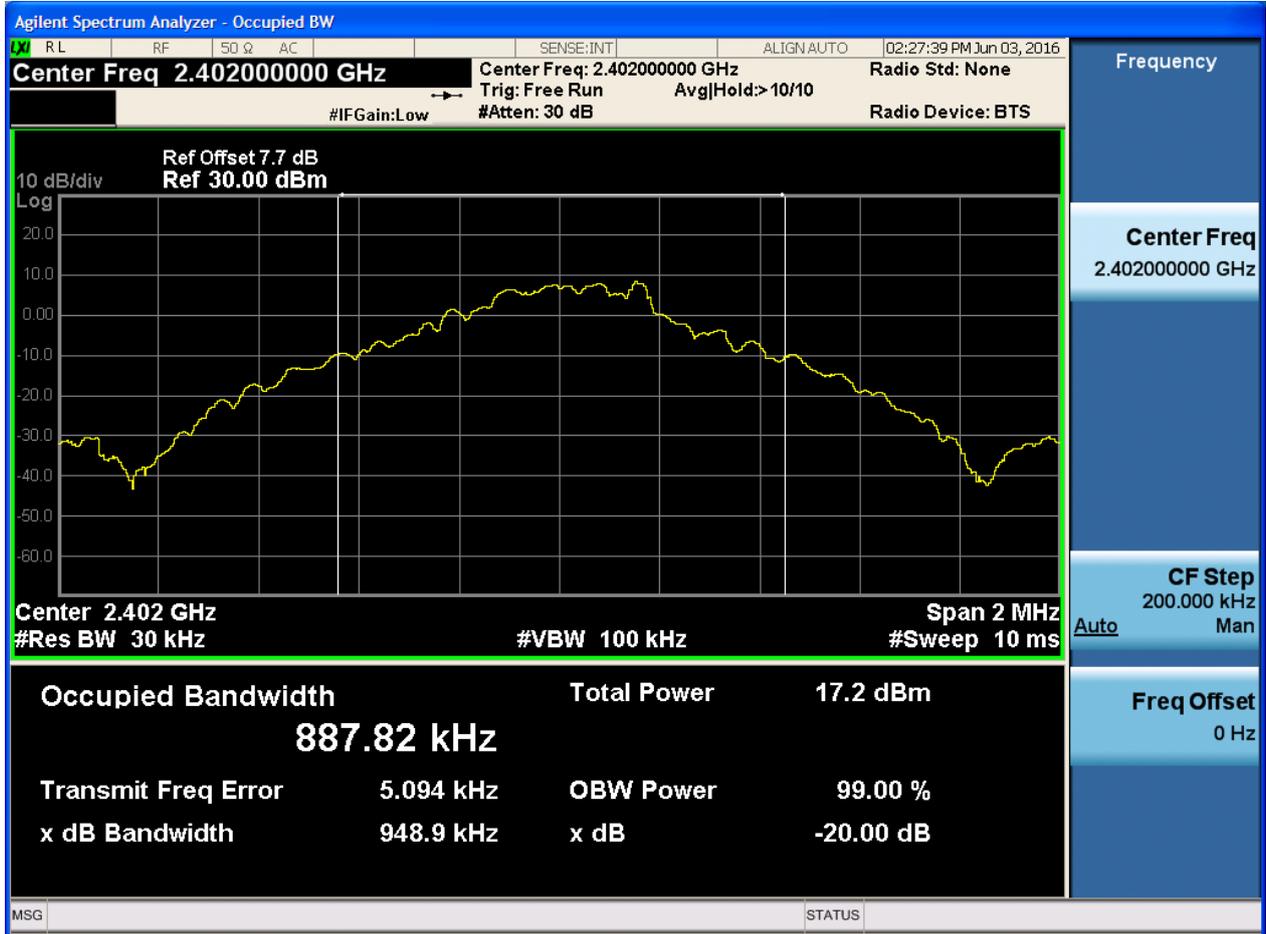
## 1 Result Table

EUT Conf.	EBW [MHz]	Verdict
TM1_DH5_Ch0	0.95	Pass
TM1_DH5_Ch39	0.95	Pass
TM1_DH5_Ch78	0.95	Pass
TM2_2DH5_Ch0	1.28	Pass
TM2_2DH5_Ch39	1.28	Pass
TM2_2DH5_Ch78	1.28	Pass
TM3_3DH5_Ch0	1.28	Pass
TM3_3DH5_Ch39	1.28	Pass
TM3_3DH5_Ch78	1.28	Pass



## 2 Test Plot

### 2.1 TM1\_DH5\_Ch0





### 2.2 TM1\_DH5\_Ch39





### 2.3 TM1\_DH5\_Ch78





### 2.4 TM2\_2DH5\_Ch0





### 2.5 TM2\_2DH5\_Ch39





### 2.6 TM2\_2DH5\_Ch78





### 2.7 TM3\_3DH5\_Ch0





### 2.8 TM3\_3DH5\_Ch39





### 2.9 TM3\_3DH5\_Ch78





# Appendix B: Carrier Frequency Separation



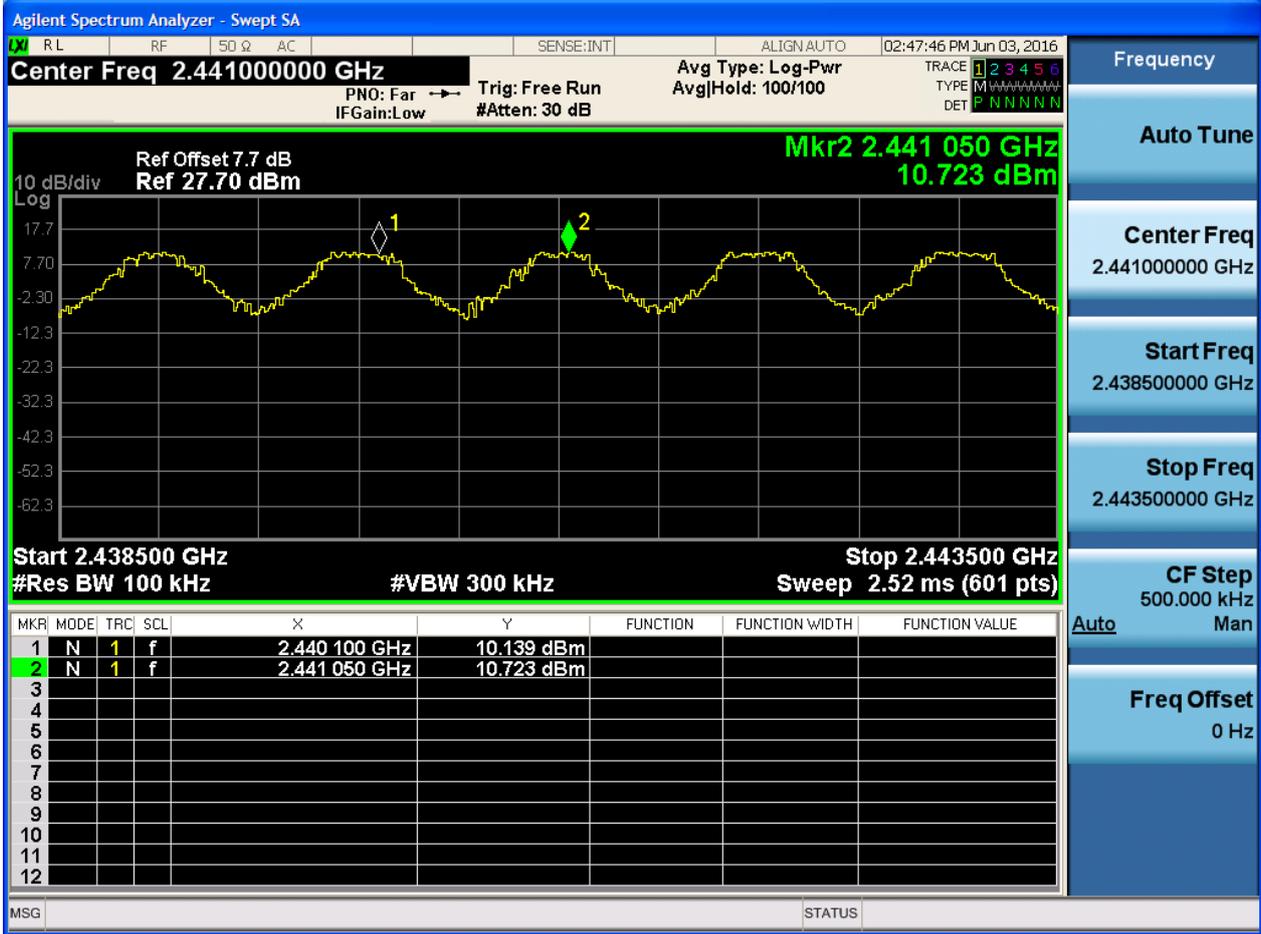
## 1 Result Table

EUT Conf.	Carrier Frequency Separation [MHz]	Verdict
TM1_DH5_Hop	0.95	Pass
TM2_2DH5_Hop	1	Pass
TM3_3DH5_Hop	1	Pass



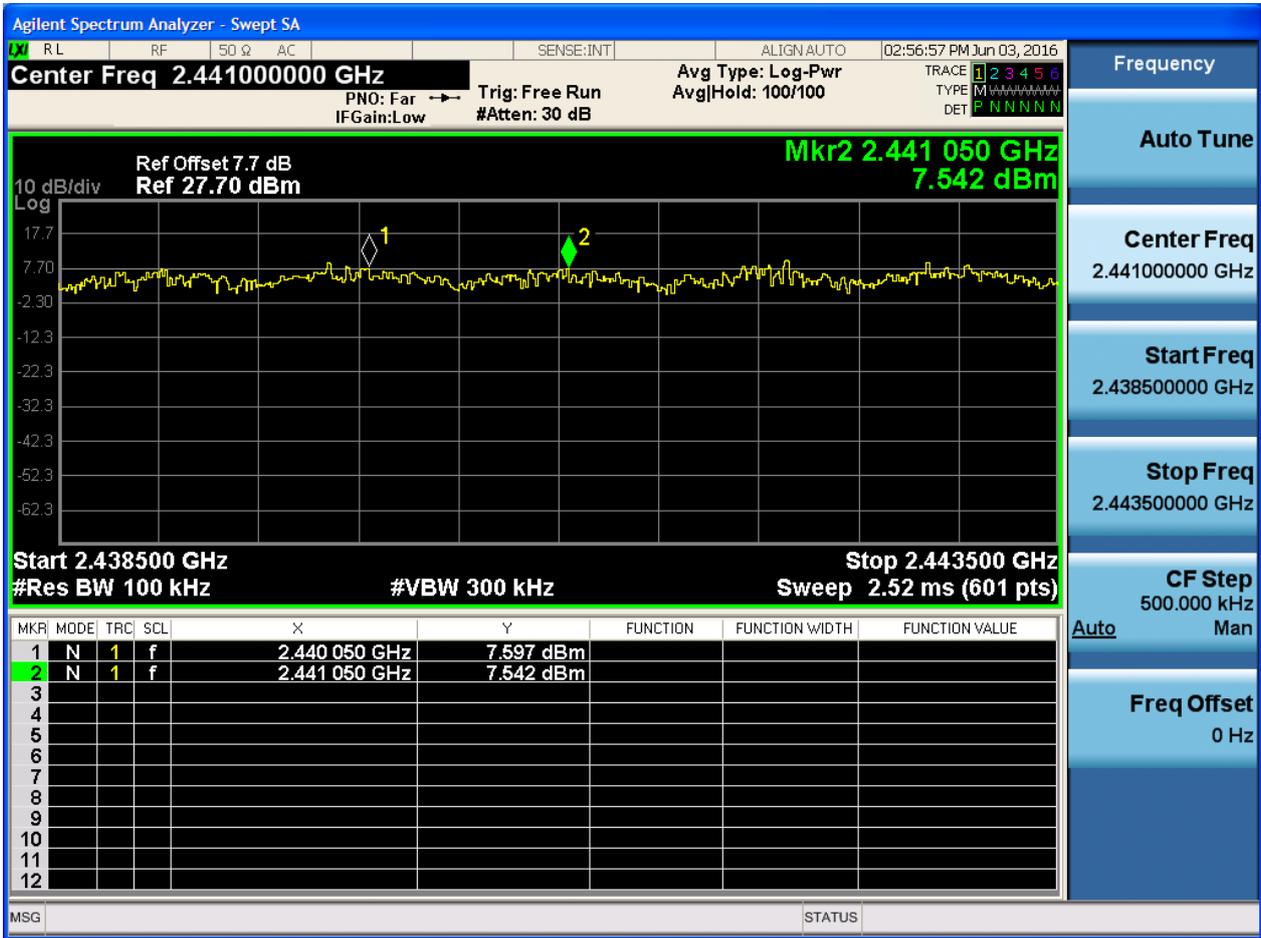
## 2 Test Plot

### 2.1 TM1\_DH5\_Hop



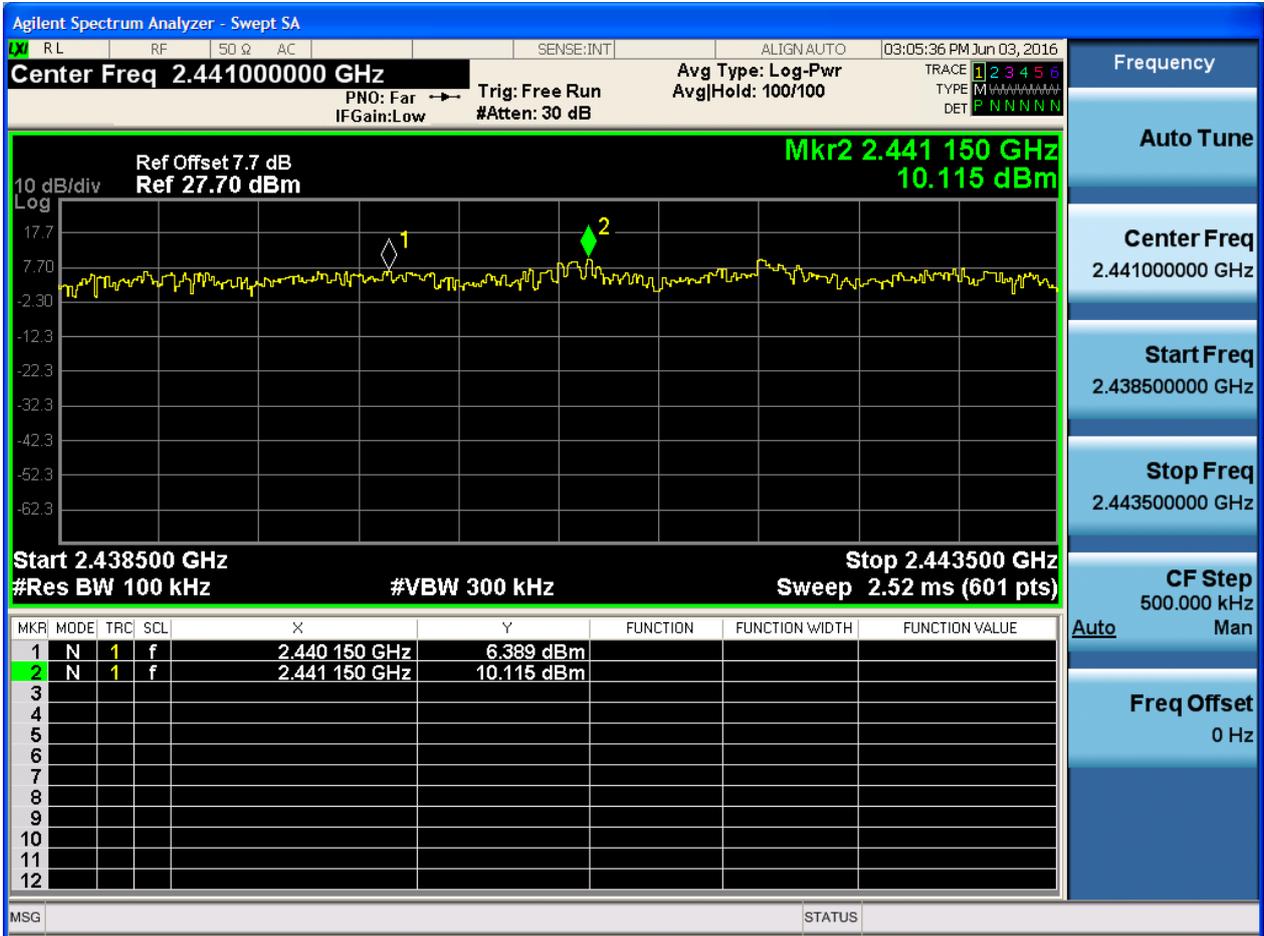


### 2.2 TM2\_2DH5\_Hop





### 2.3 TM3\_3DH5\_Hop





# Appendix C: Number of Hopping Channel



## 1 Result Table

EUT Conf.	Number of Hopping Channel	Verdict
TM1_DH5_Hop	79	Pass
TM2_2DH5_Hop	79	Pass
TM3_3DH5_Hop	79	Pass



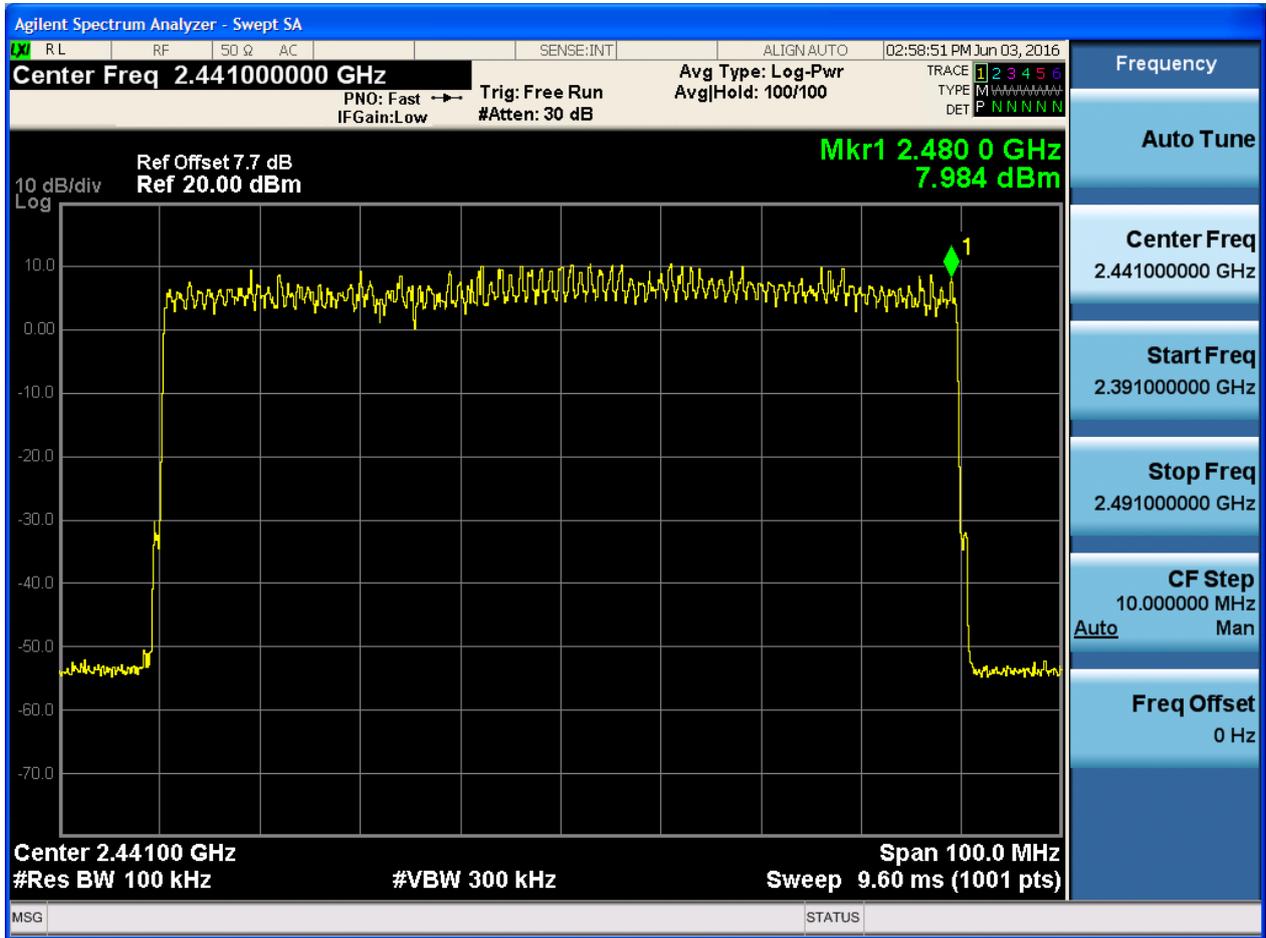
## 2 Test Plot

### 2.1 TM1\_DH5\_Hop



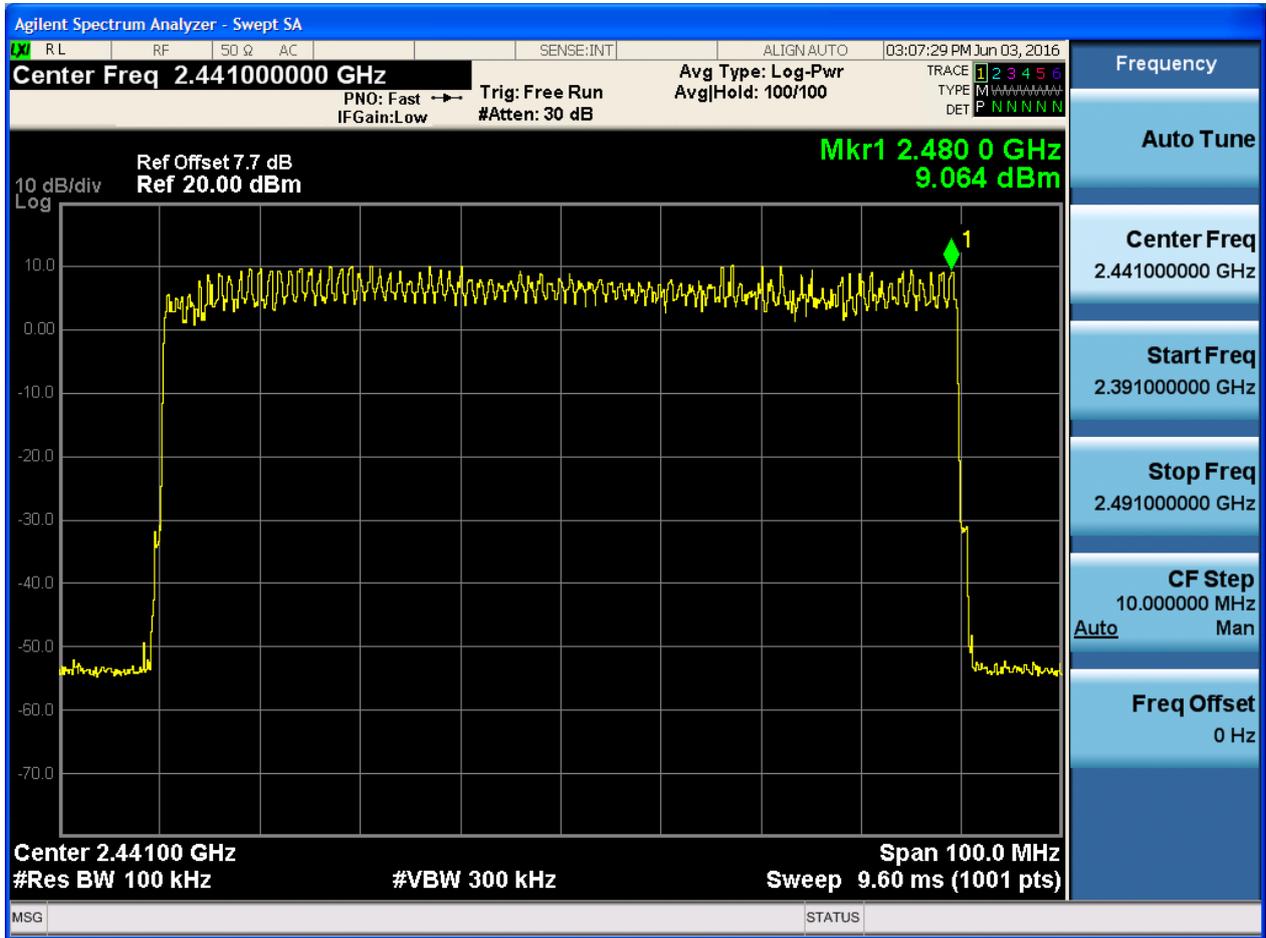


## 2.2 TM2\_2DH5\_Hop





### 2.3 TM3\_3DH5\_Hop





# Appendix D: Time of Occupancy (Dwell Time)

## 1 Result Table

The Dwell Time = Burst Width \* Total Hops. The detailed calculations are showed as follows:

- The duration for dwell time calculation:  $0.4 \text{ [s]} * \text{hopping number} = 0.4 \text{ [s]} * 79 \text{ [ch]} = 31.6 \text{ [s*ch]}$ ;
- The burst width [ms/hop/ch], which is directly measured, refers to the duration on one channel hop.
- The hops per second for all channels: The selected EUT Conf uses a slot type of 5-Tx&1-Rx and a hopping rate of 1600 [ch\*hop/s] for all channels. So the final hopping rate for all channels is  $1600 / 6 = 266.67 \text{ [ch*hop/s]}$ ;
- The hops per second on one channel:  $266.67 \text{ [ch*hop/s]} / 79 \text{ [ch]} = 3.38 \text{ [hop/s]}$ ;
- The total hops for all channels within the dwell time calculation duration:  $3.38 \text{ [hop/s]} * 31.6 \text{ [s*ch]} = 106.67 \text{ [hop*ch]}$ ;
- The dwell time for all channels hopping:  $106.67 \text{ [hop*ch]} * \text{Burst Width [ms/hop/ch]}$ .

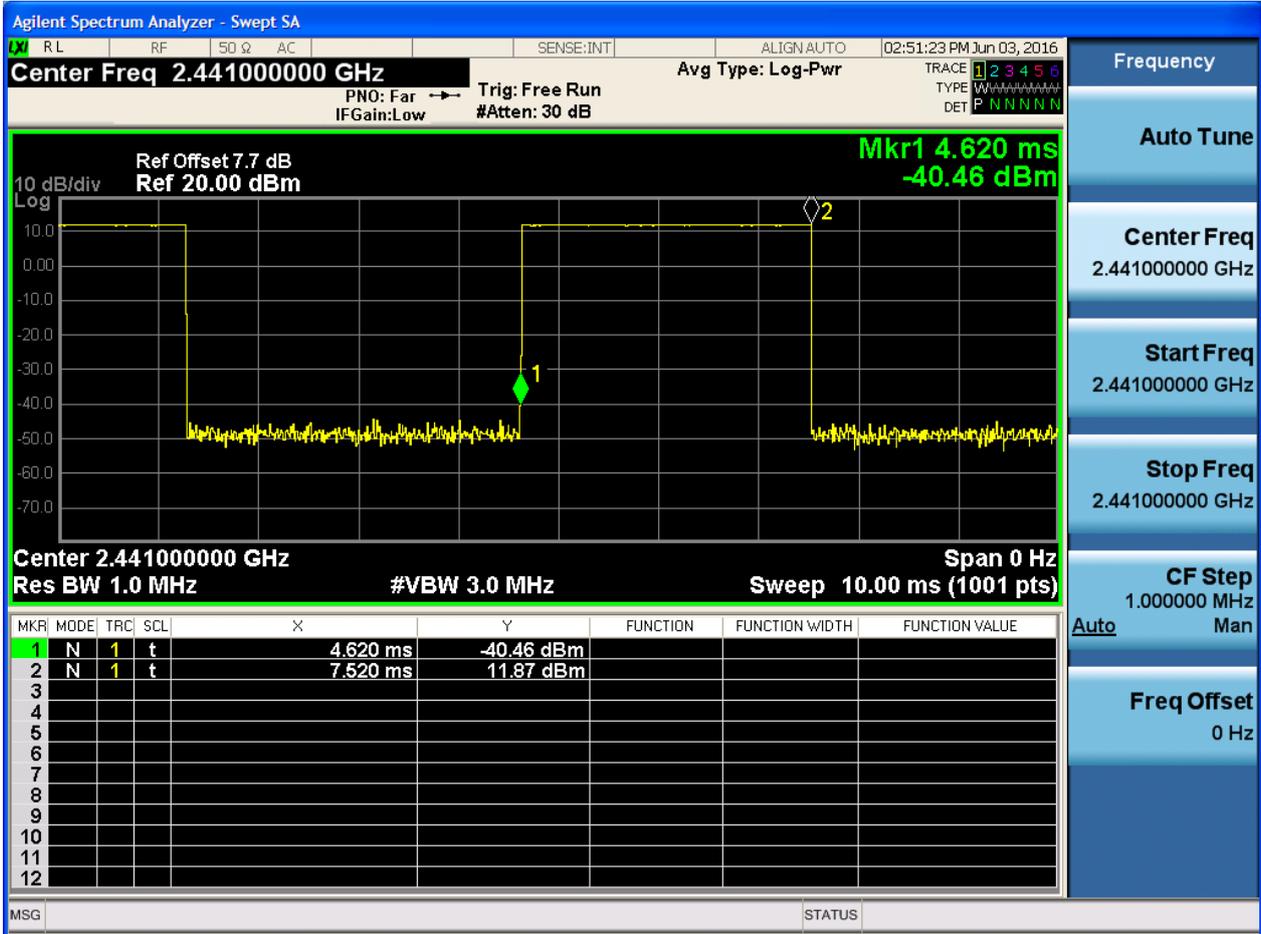
EUT Conf.	Burst Width [s/hop/ch]	Total Hops [hop*ch]	Dwell Time [s]	Verdict
TM1_DH5_Ch39	0.0029	106.67	0.309	Pass
TM2_2DH5_Ch39	0.0029	106.67	0.309	Pass
TM3_3DH5_Ch39	0.0029	106.67	0.309	Pass



## 2 Test Plot

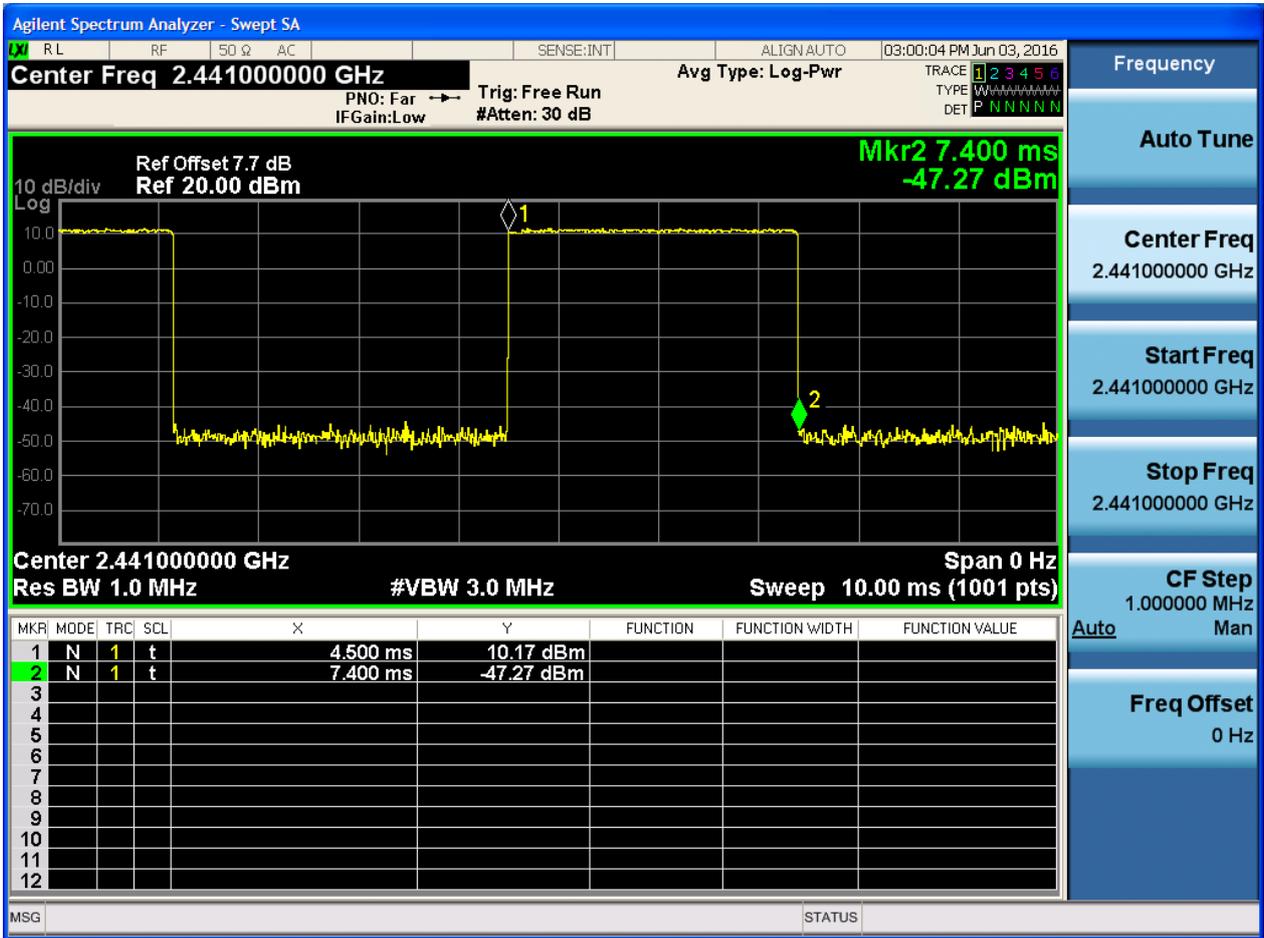
NOTE: The test plots are only for Burst Width measurements.

### 2.1 TM1\_DH5\_Ch39



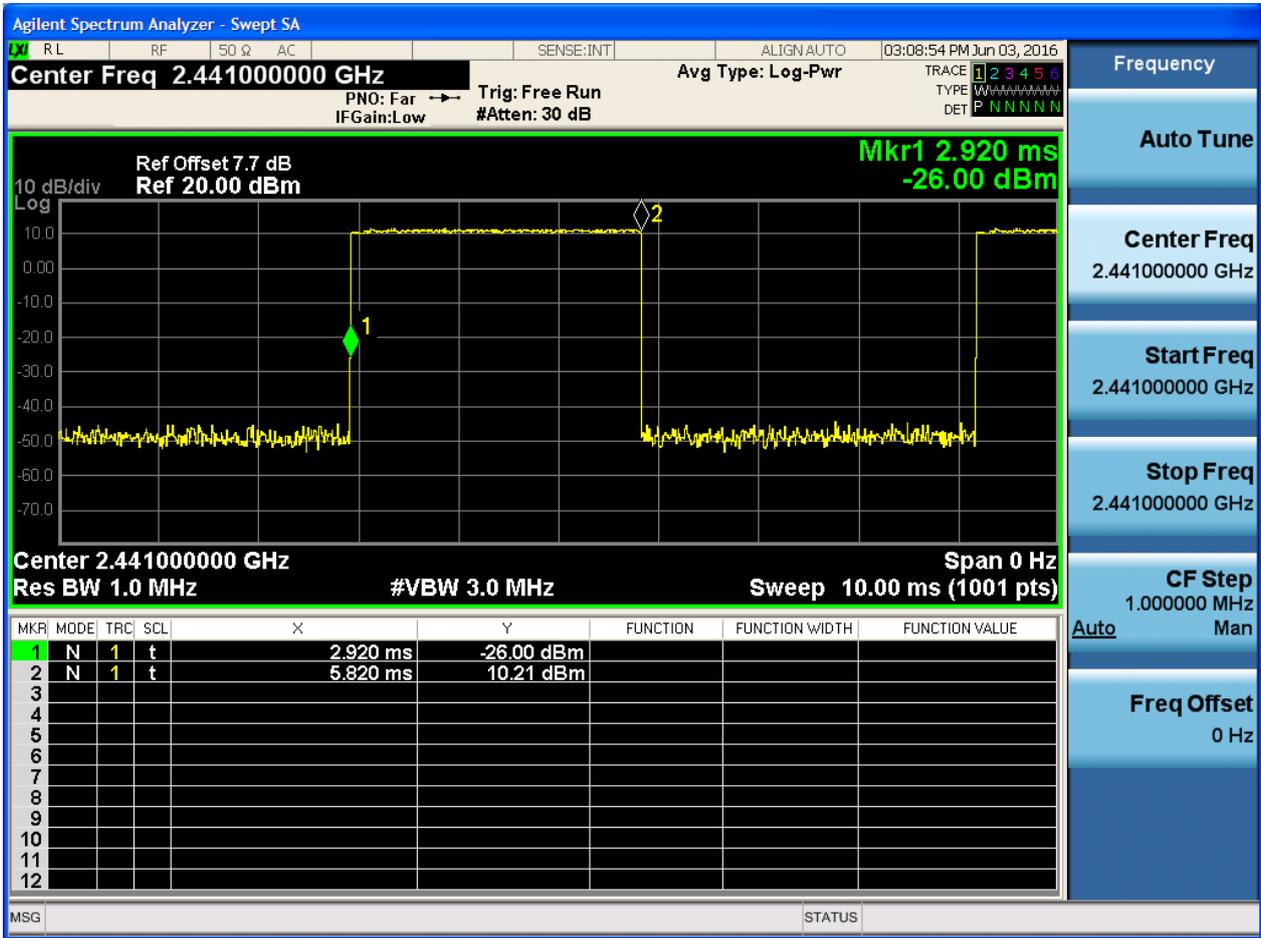


### 2.2 TM2\_2DH5\_Ch39





### 2.3 TM3\_3DH5\_Ch39





# Appendix E: Maximum Peak Conducted Output Power



## 1 Result Table

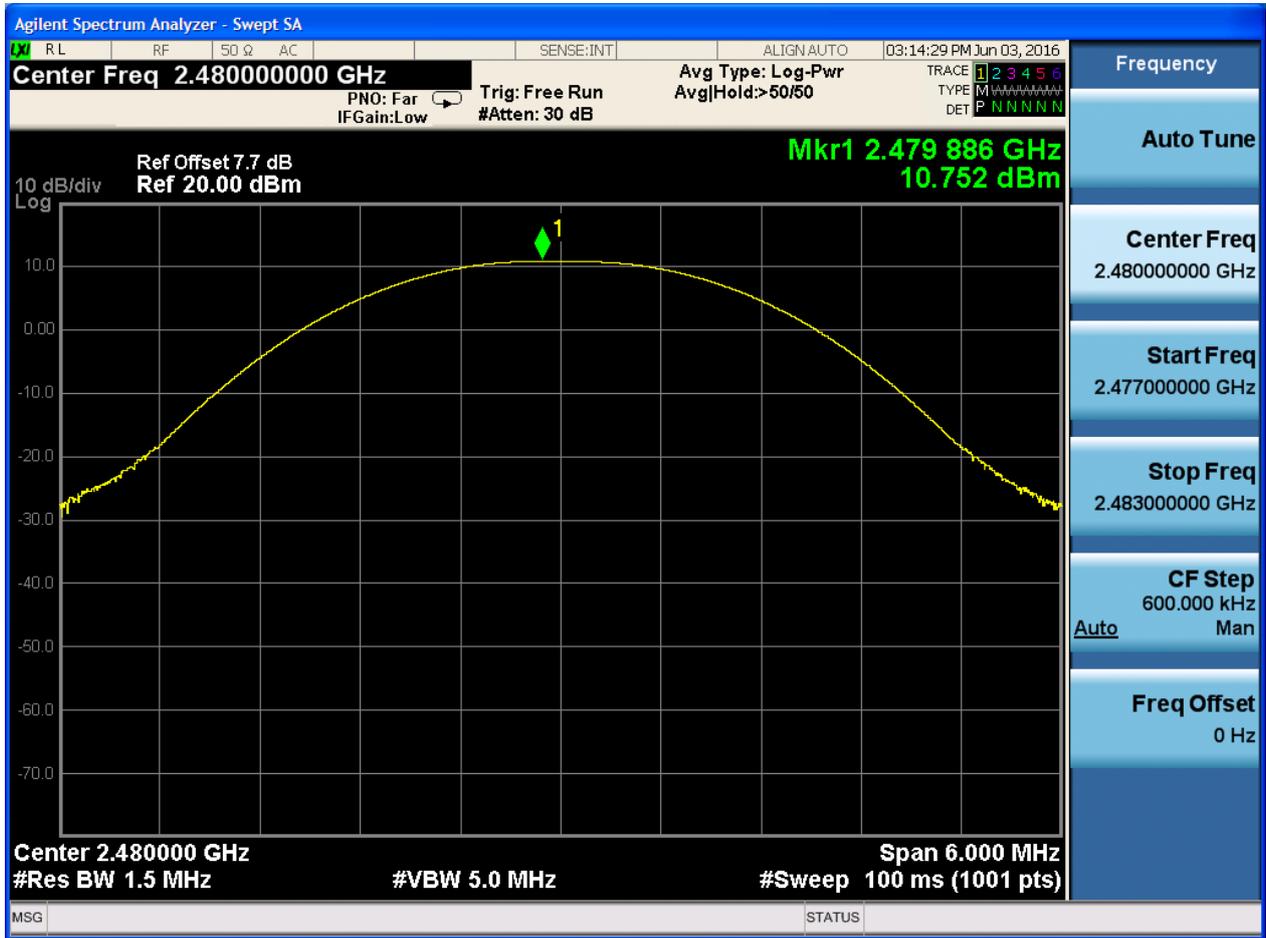
EUT Conf.	Max. Peak Power [dBm]	Verdict
TM1_DH5_Ch0	10.336	Pass
TM1_DH5_Ch39	11.947	Pass
TM1_DH5_Ch78	10.752	Pass
TM2_2DH5_Ch0	10.299	Pass
TM2_2DH5_Ch39	11.915	Pass
TM2_2DH5_Ch78	10.712	Pass
TM3_3DH5_Ch0	10.267	Pass
TM3_3DH5_Ch39	11.891	Pass
TM3_3DH5_Ch78	10.708	Pass





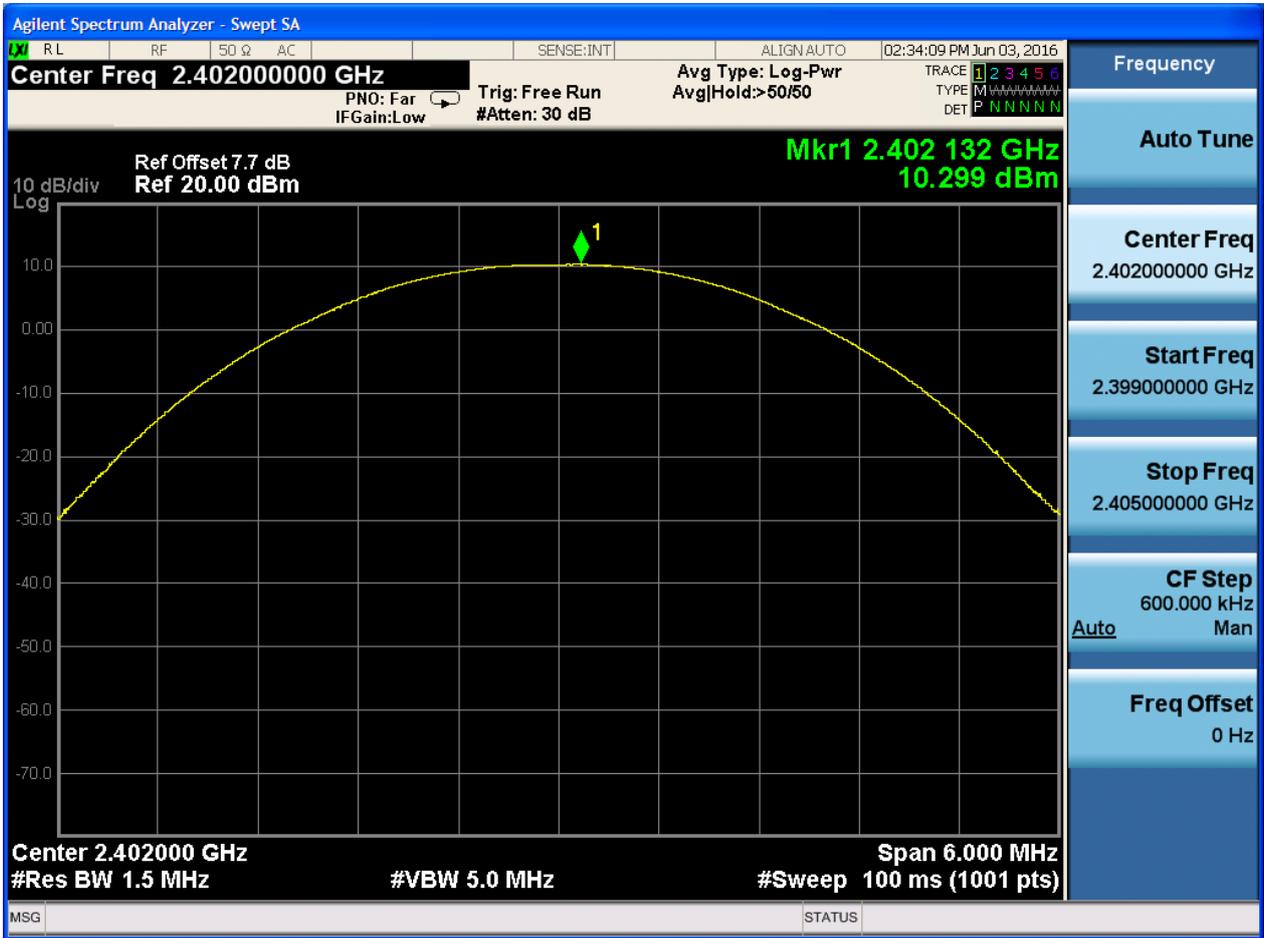


### 2.3 TM1\_DH5\_Ch78



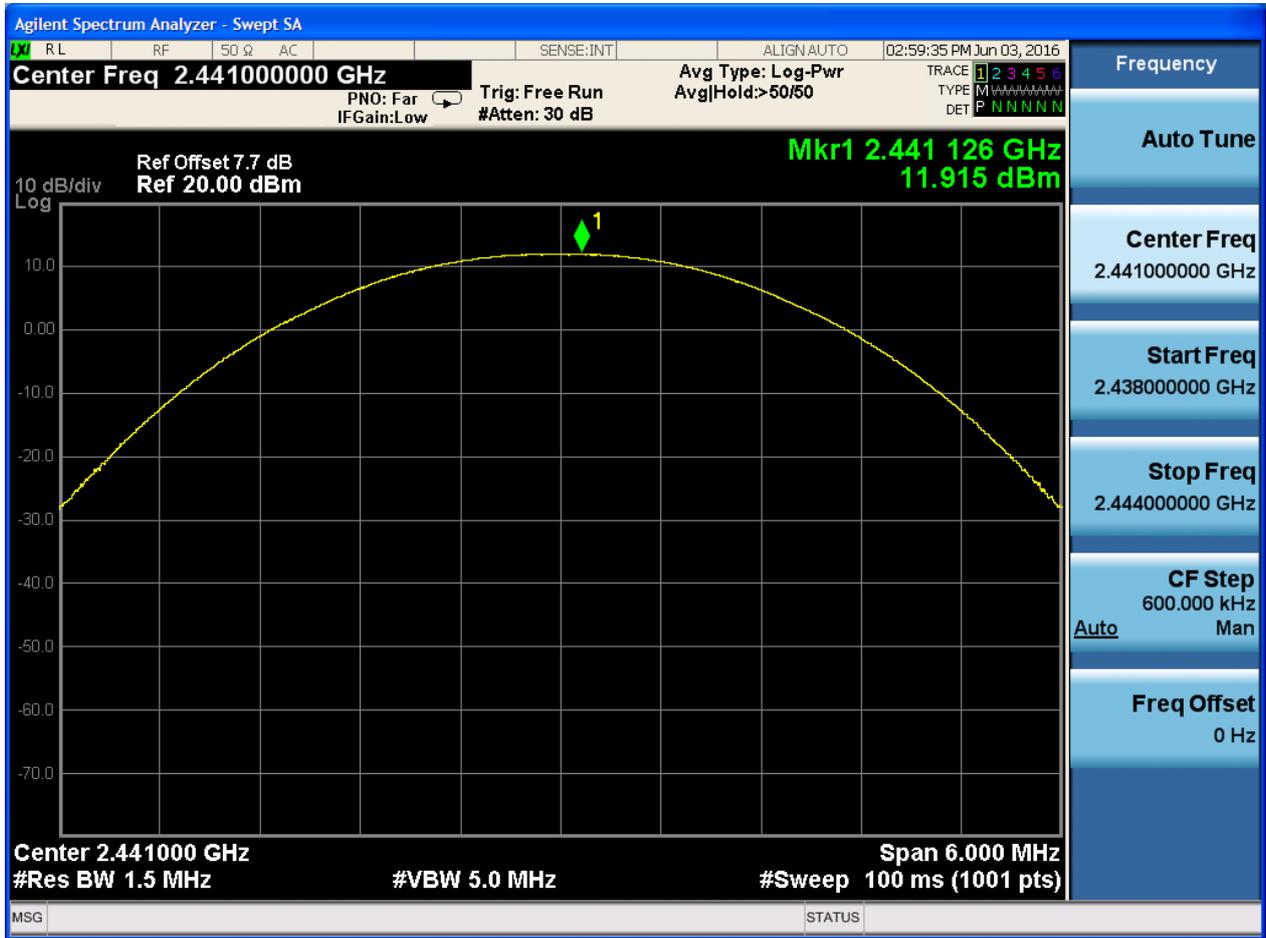


### 2.4 TM2\_2DH5\_Ch0



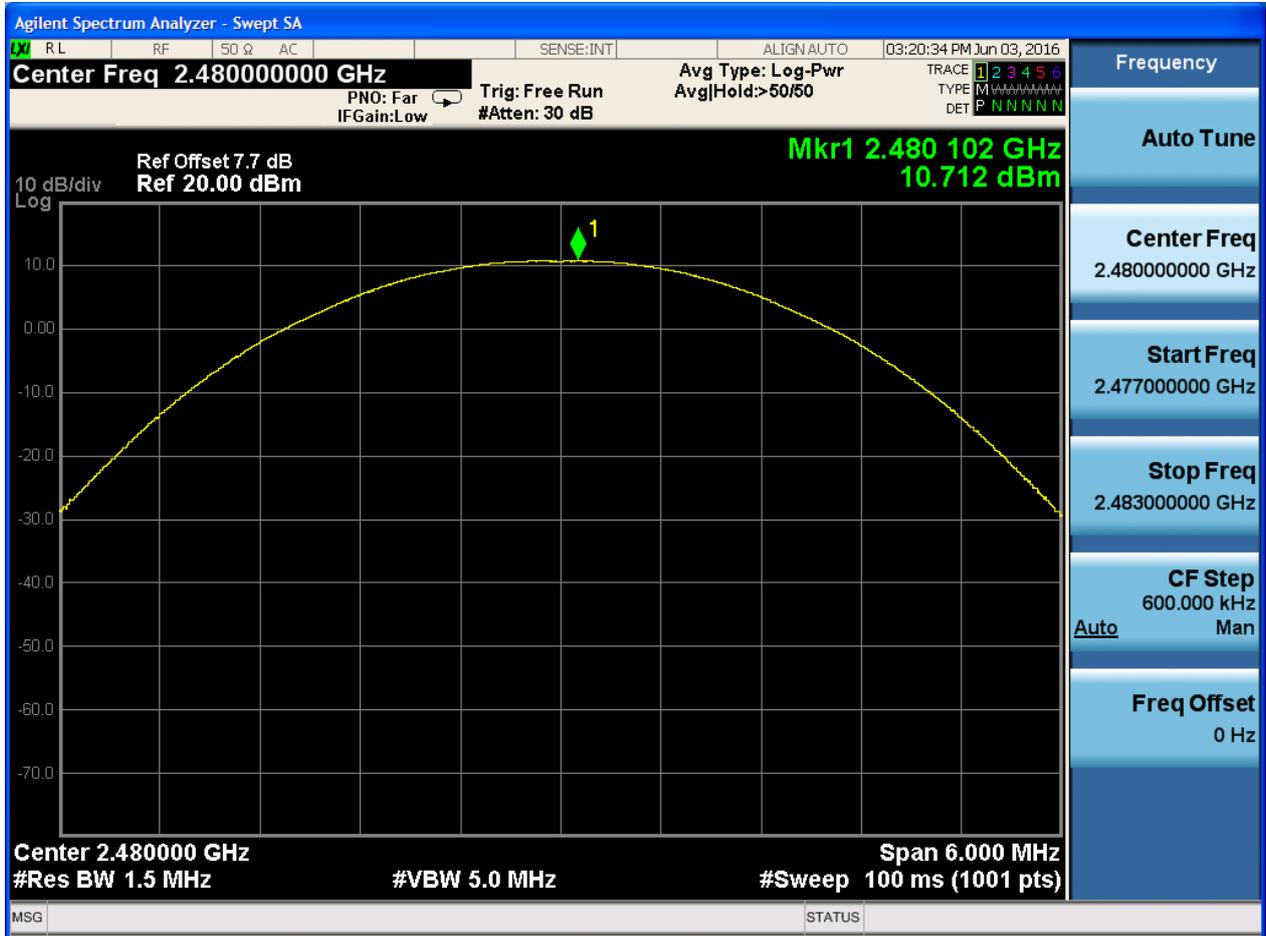


### 2.5 TM2\_2DH5\_Ch39





### 2.6 TM2\_2DH5\_Ch78



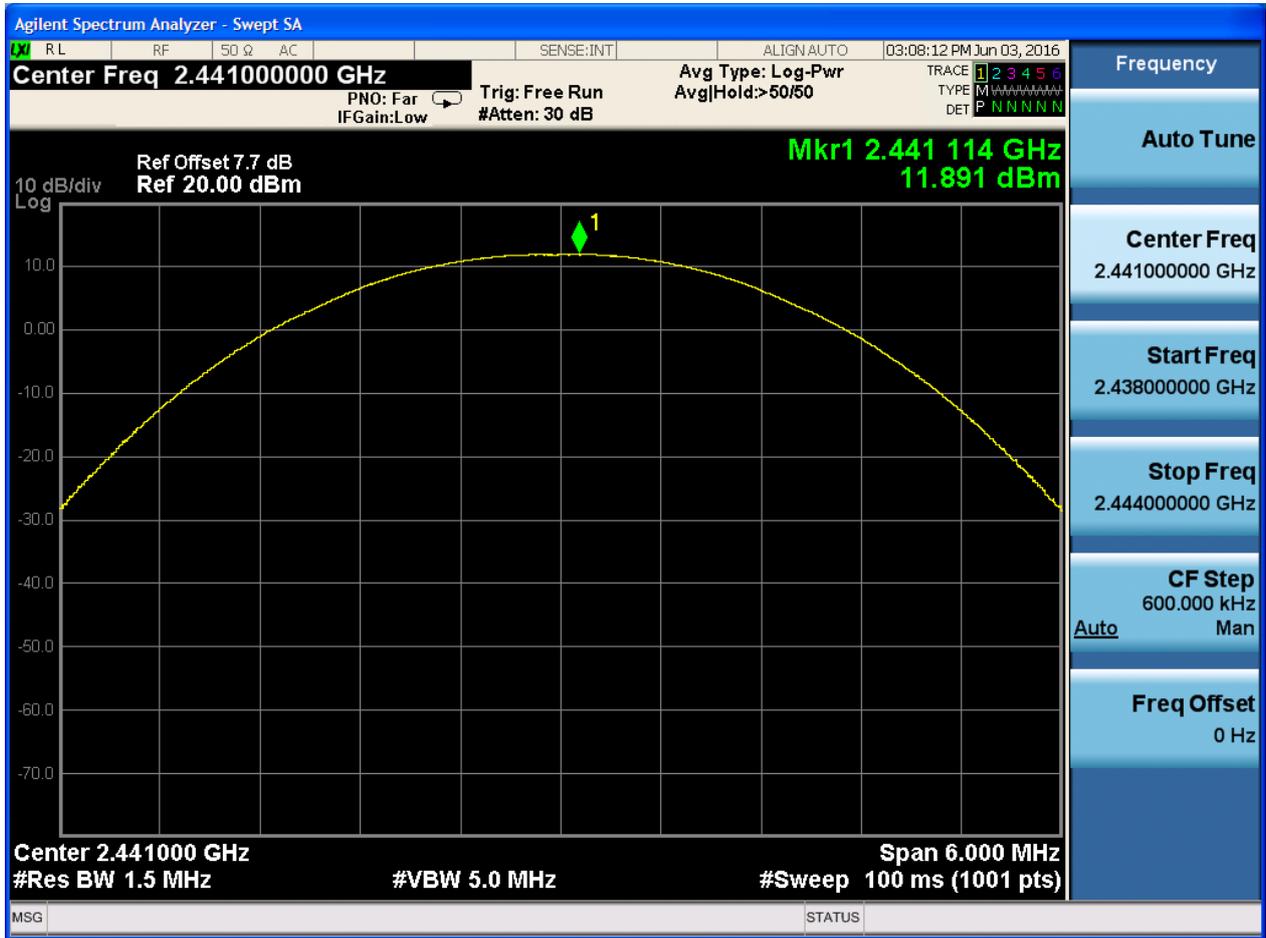


### 2.7 TM3\_3DH5\_Ch0



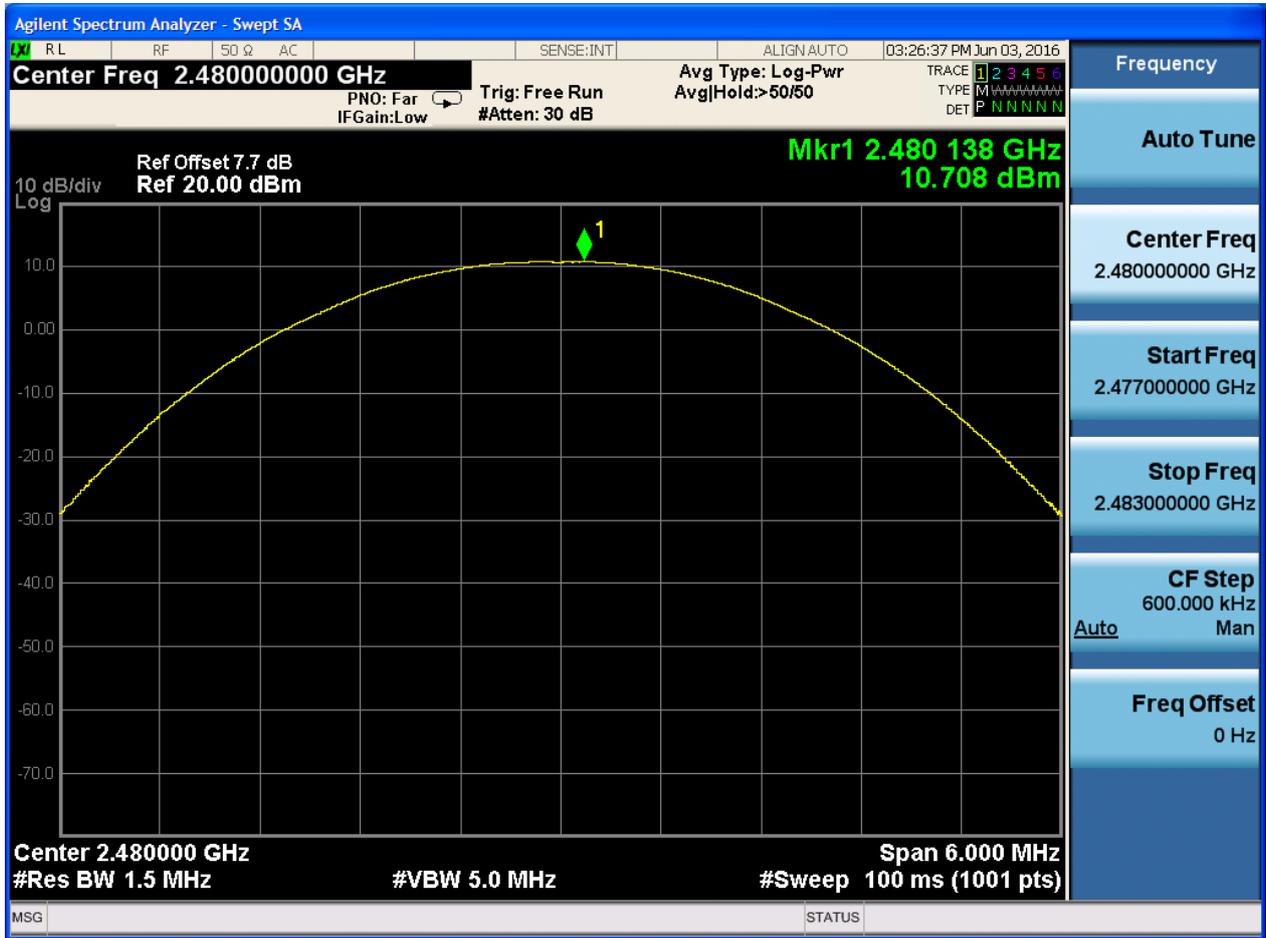


### 2.8 TM3\_3DH5\_Ch39





### 2.9 TM3\_3DH5\_Ch78





# Appendix F: Band edge spurious emission



## 1 Result Table

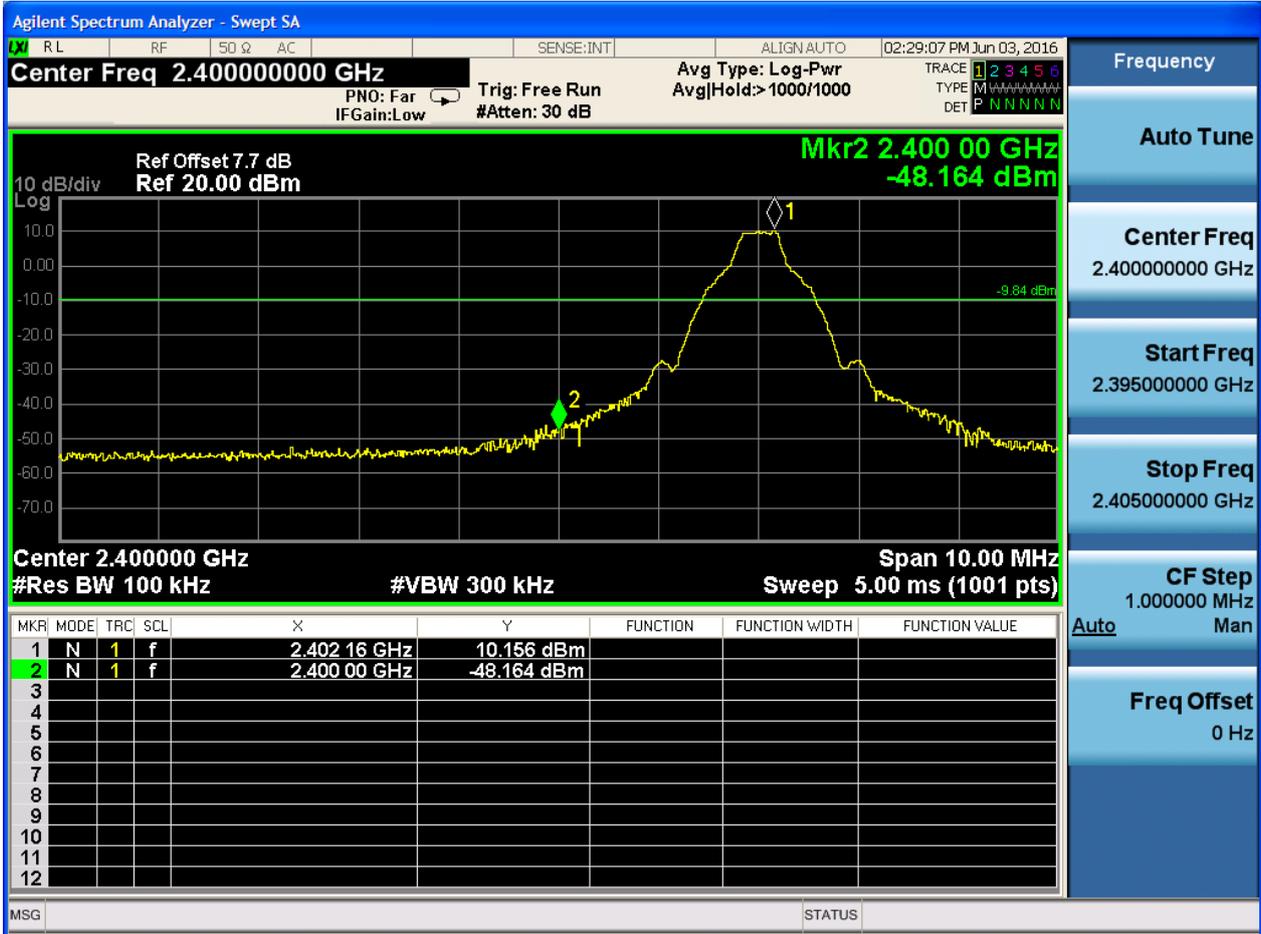
EUT Conf.	Channel No.	Carrier Frequency [MHz]	Max. Spurious Level [dBm]	Frequency Hopping	Carrier Power [dBm]	Limit [dBm]	Result
TM1_DH5 _Ch0	0	2402	-48.164	Off	10.156	-9.844	Pass
	-	-	-54.681	On	10.245	-9.755	Pass
TM1_DH5 _Ch78	78	2480	-54.28	Off	10.589	-9.411	Pass
	-	-	-54.759	On	9.859	-10.141	Pass
TM2_2DH 5_Ch0	0	2402	-48.044	Off	8.57	-11.43	Pass
	-	-	-54.709	On	7.981	-12.019	Pass
TM2_2DH 5_Ch78	78	2480	-55.44	Off	8.94	-11.06	Pass
	-	-	-55.279	On	8.273	-11.727	Pass
TM3_3DH 5_Ch0	0	2402	-48.703	Off	8.539	-11.461	Pass
	-	-	-54.61	On	5.88	-14.12	Pass
TM3_3DH 5_Ch78	78	2480	-55.244	Off	8.951	-11.049	Pass
	-	-	-54.625	On	6.52	-13.48	Pass



## 2 Test Plot

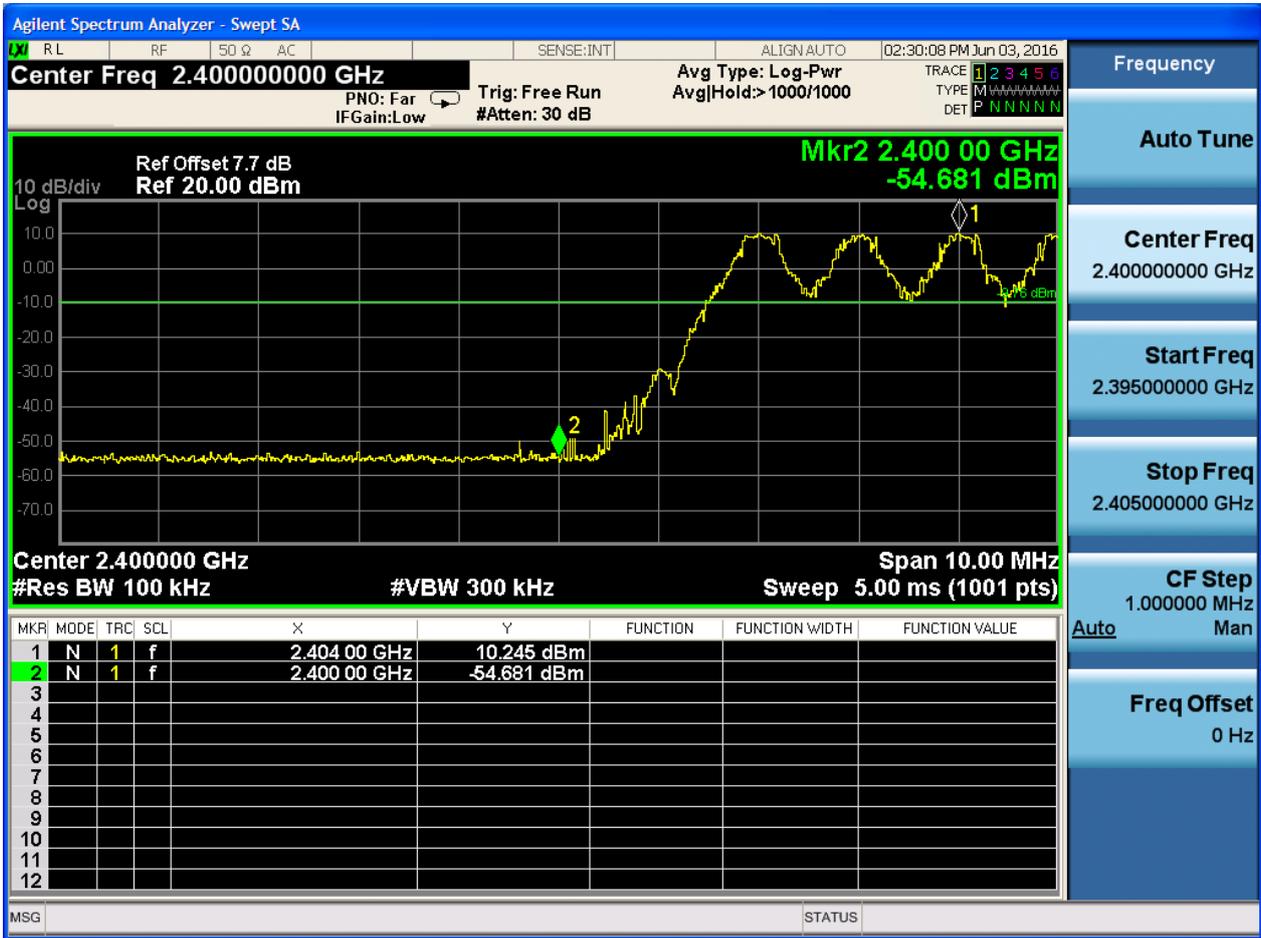
### 2.1 TM1\_DH5\_Ch0

No hopping





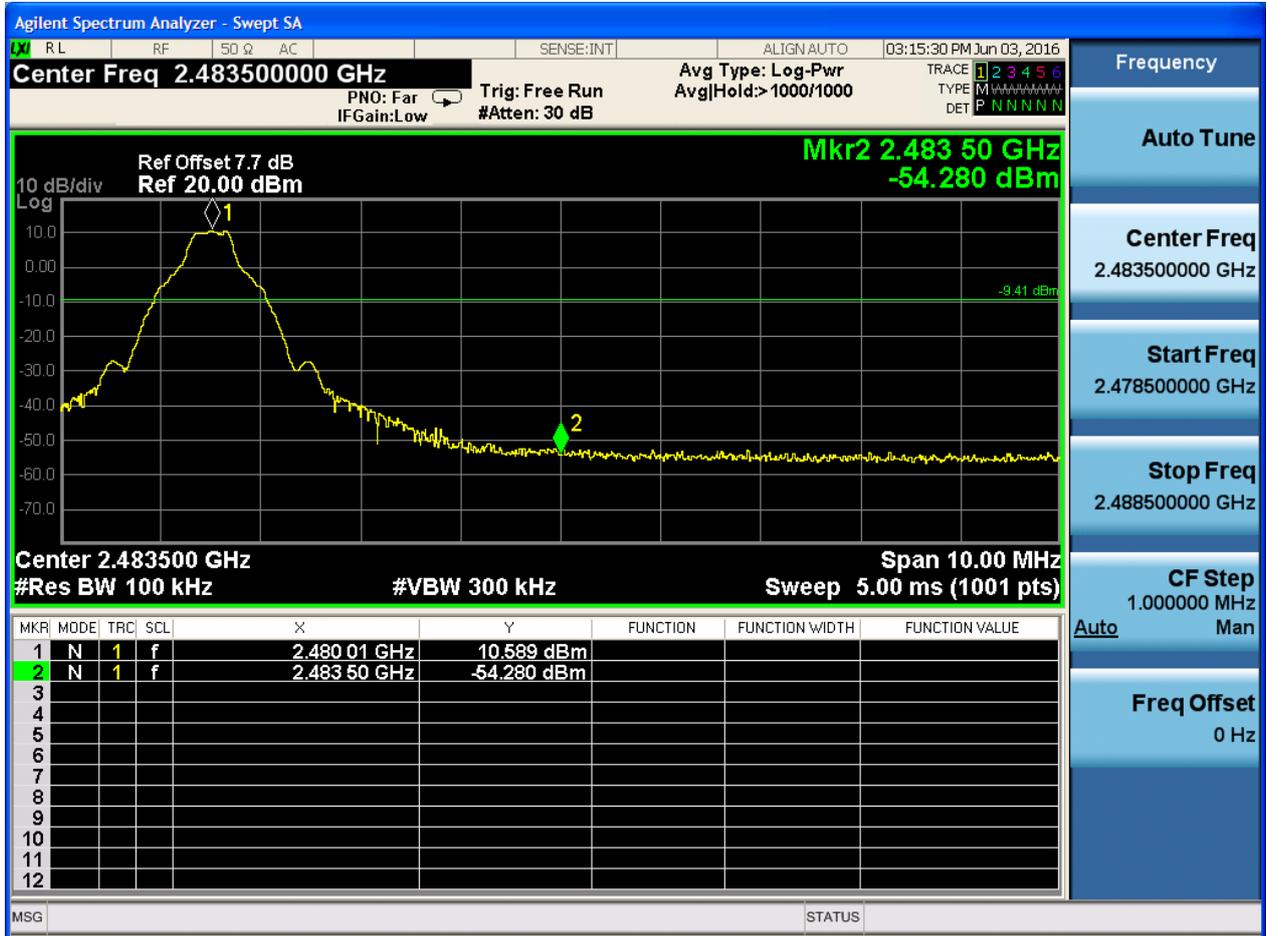
With hopping





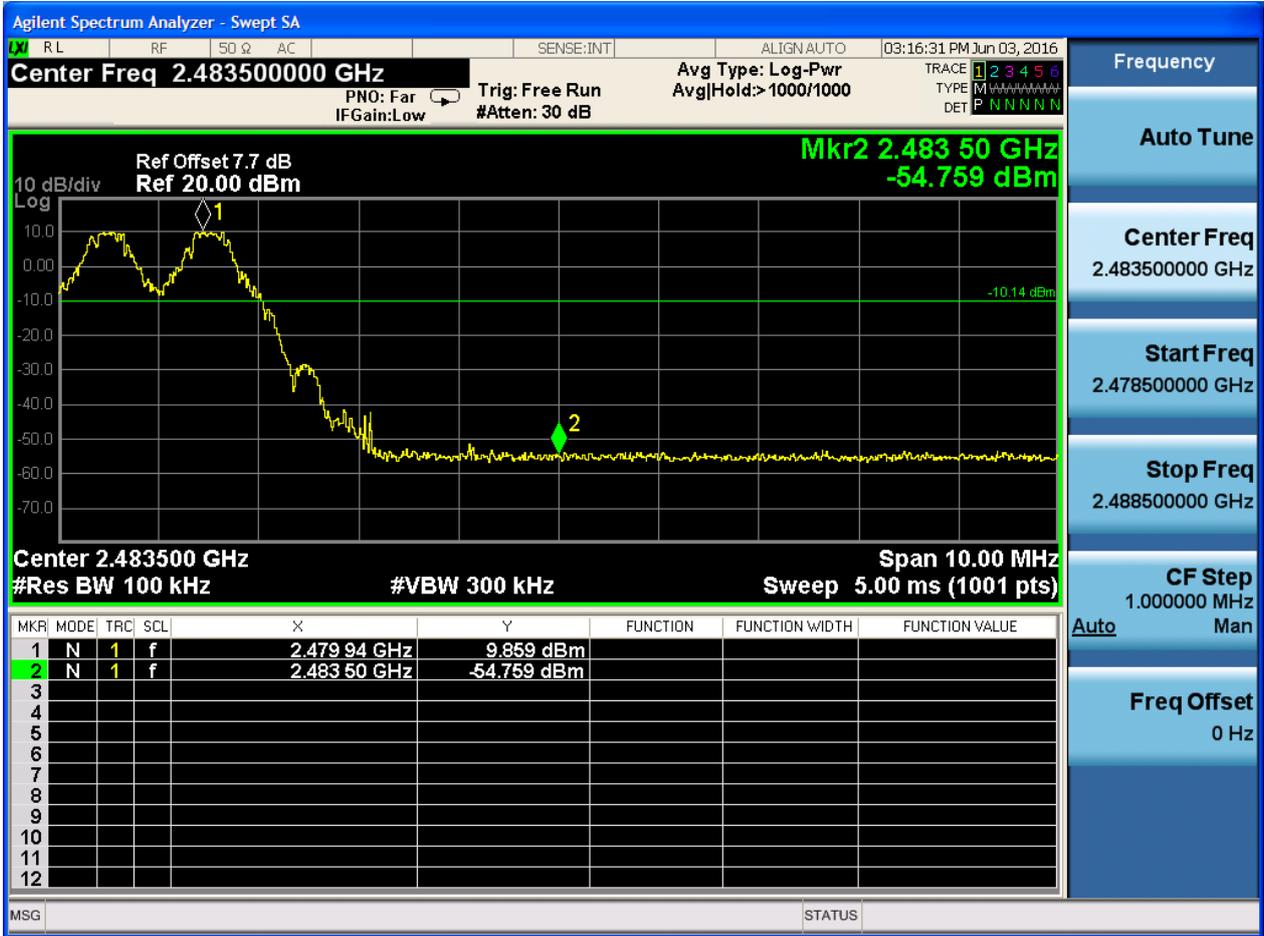
### 2.2 TM1\_DH5\_Ch78

No hopping





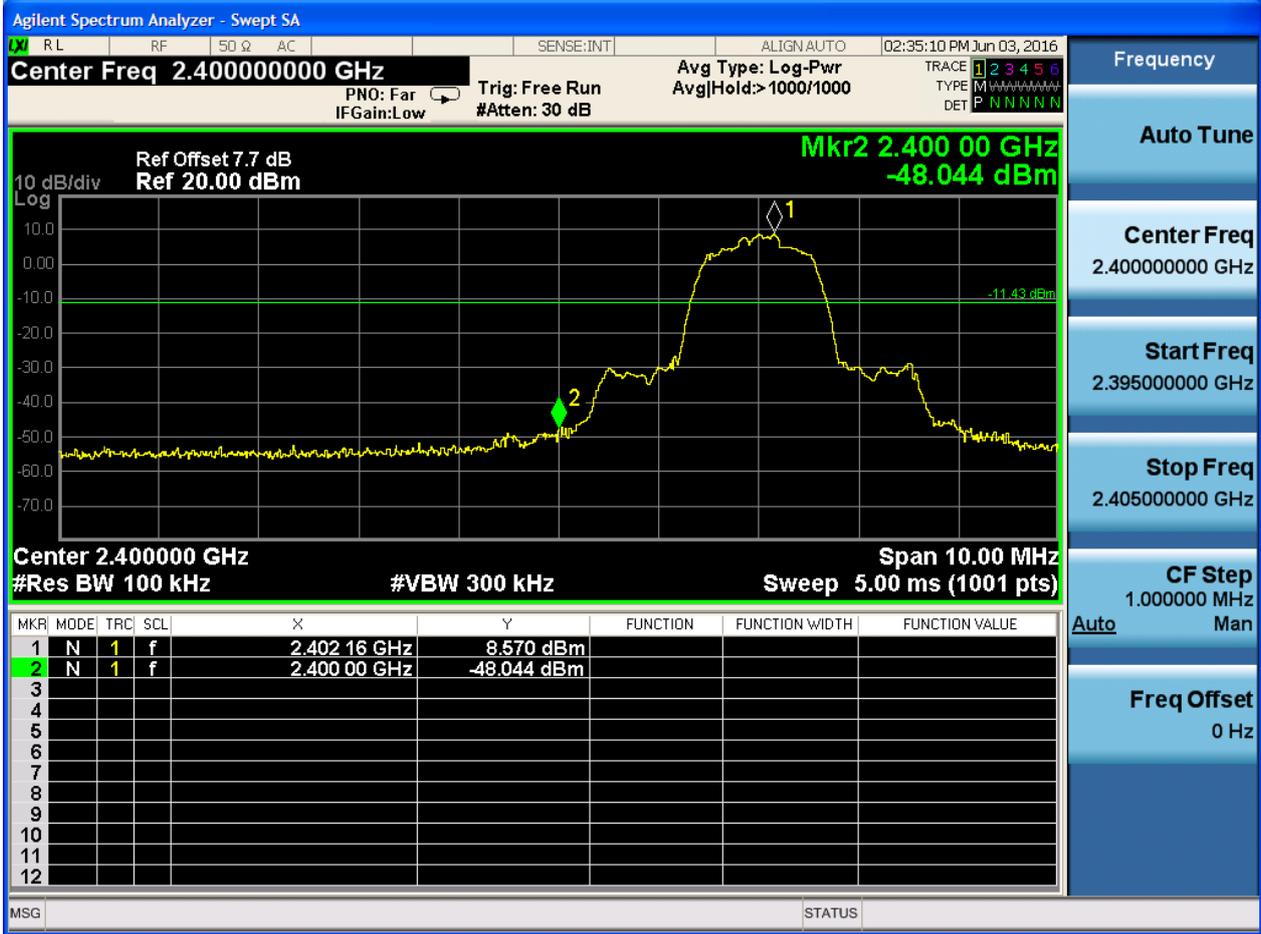
With hopping





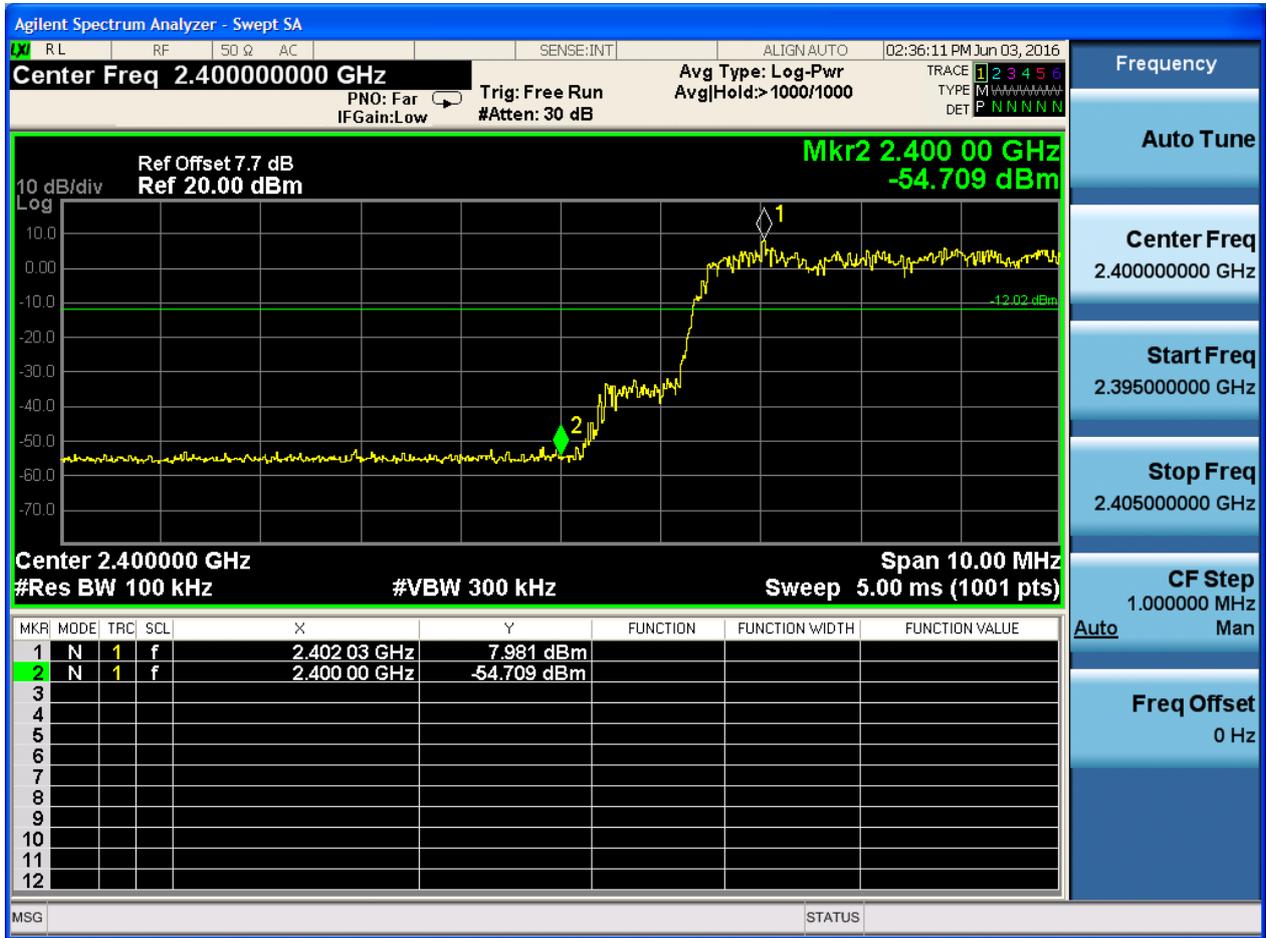
### 2.3 TM2\_2DH5\_Ch0

No hopping





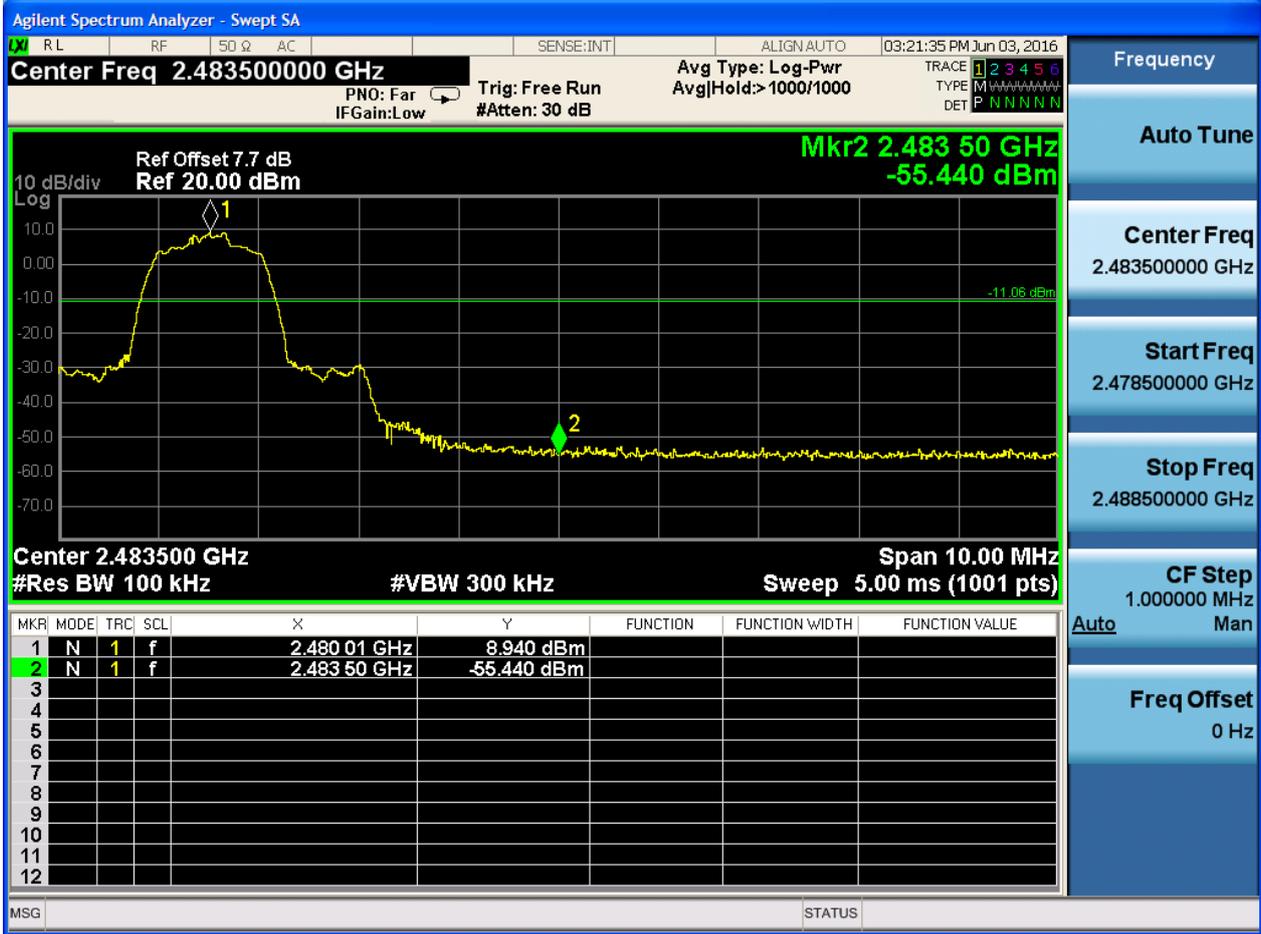
### With hopping





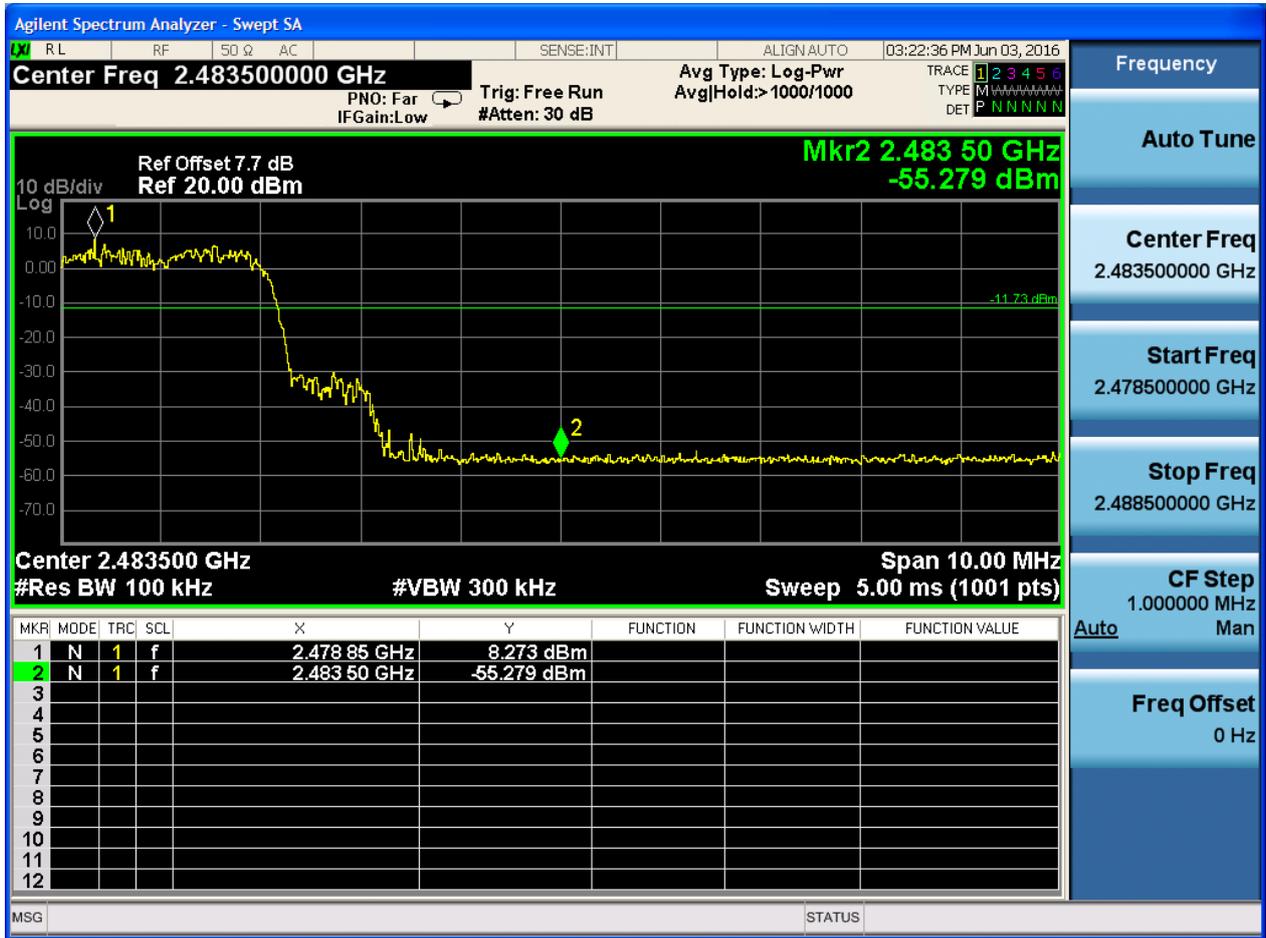
2.4 TM2\_2DH5\_Ch78

No hopping





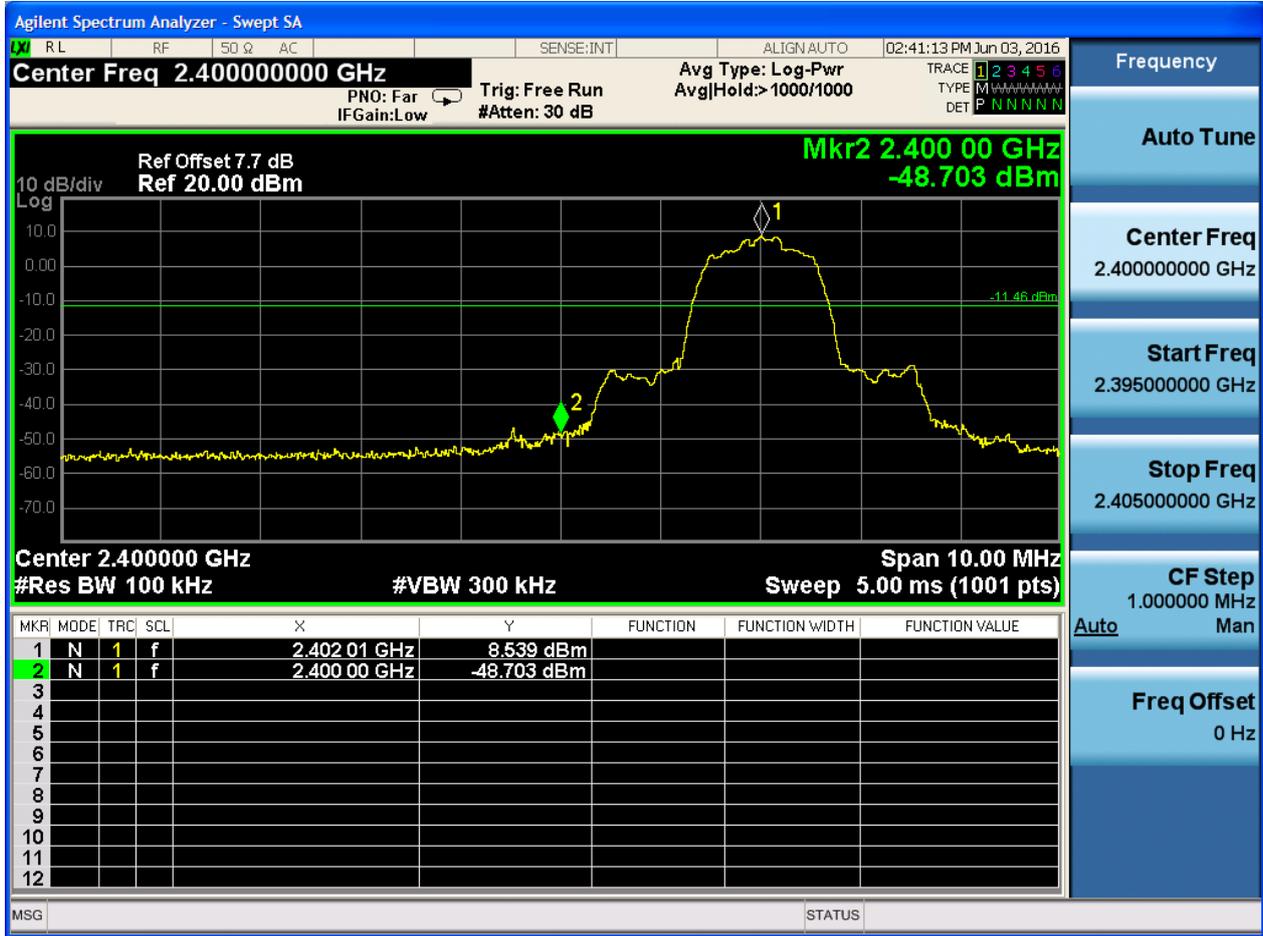
### With hopping





### 2.5 TM3\_3DH5\_Ch0

No hopping





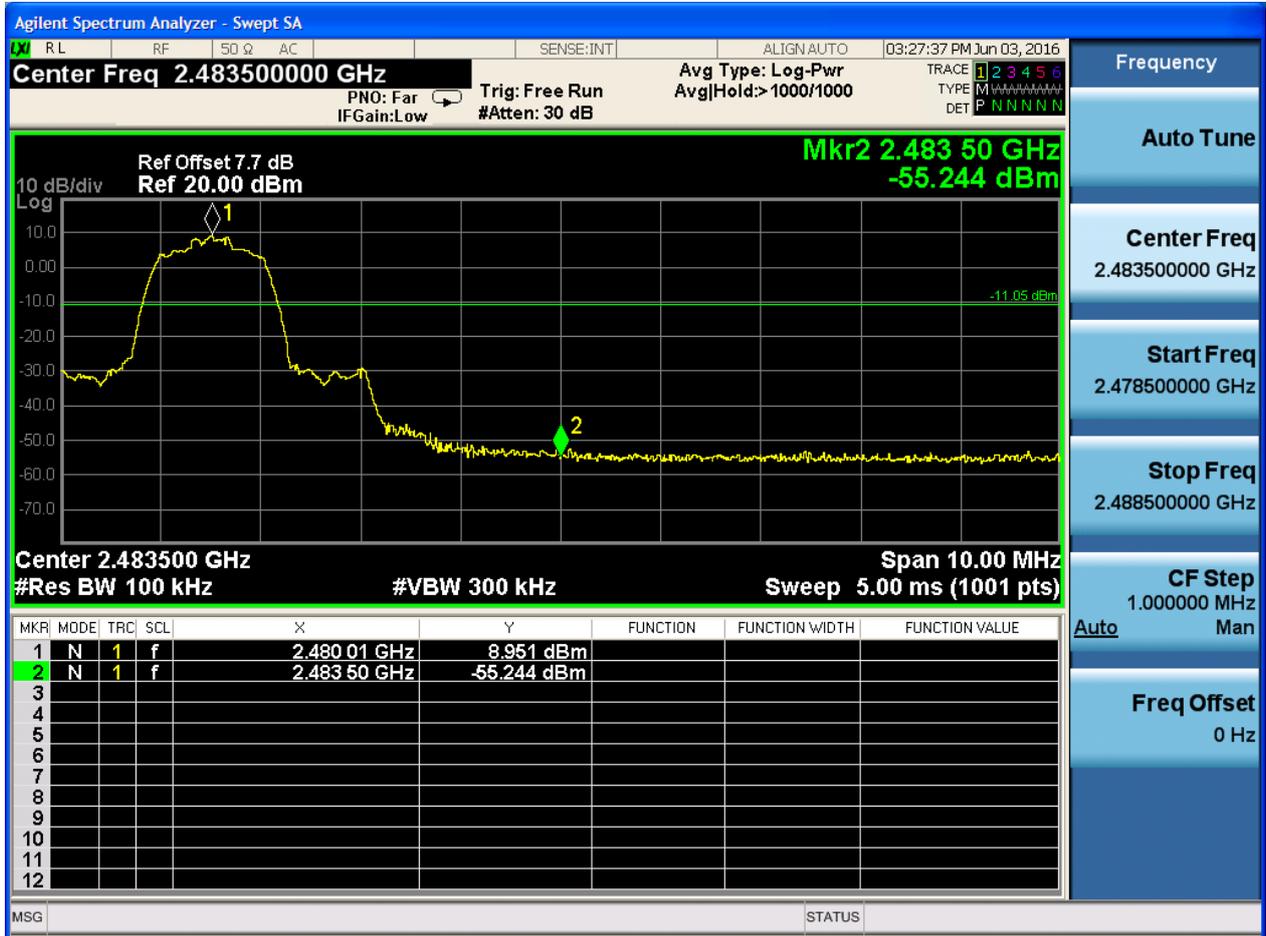
### With hopping





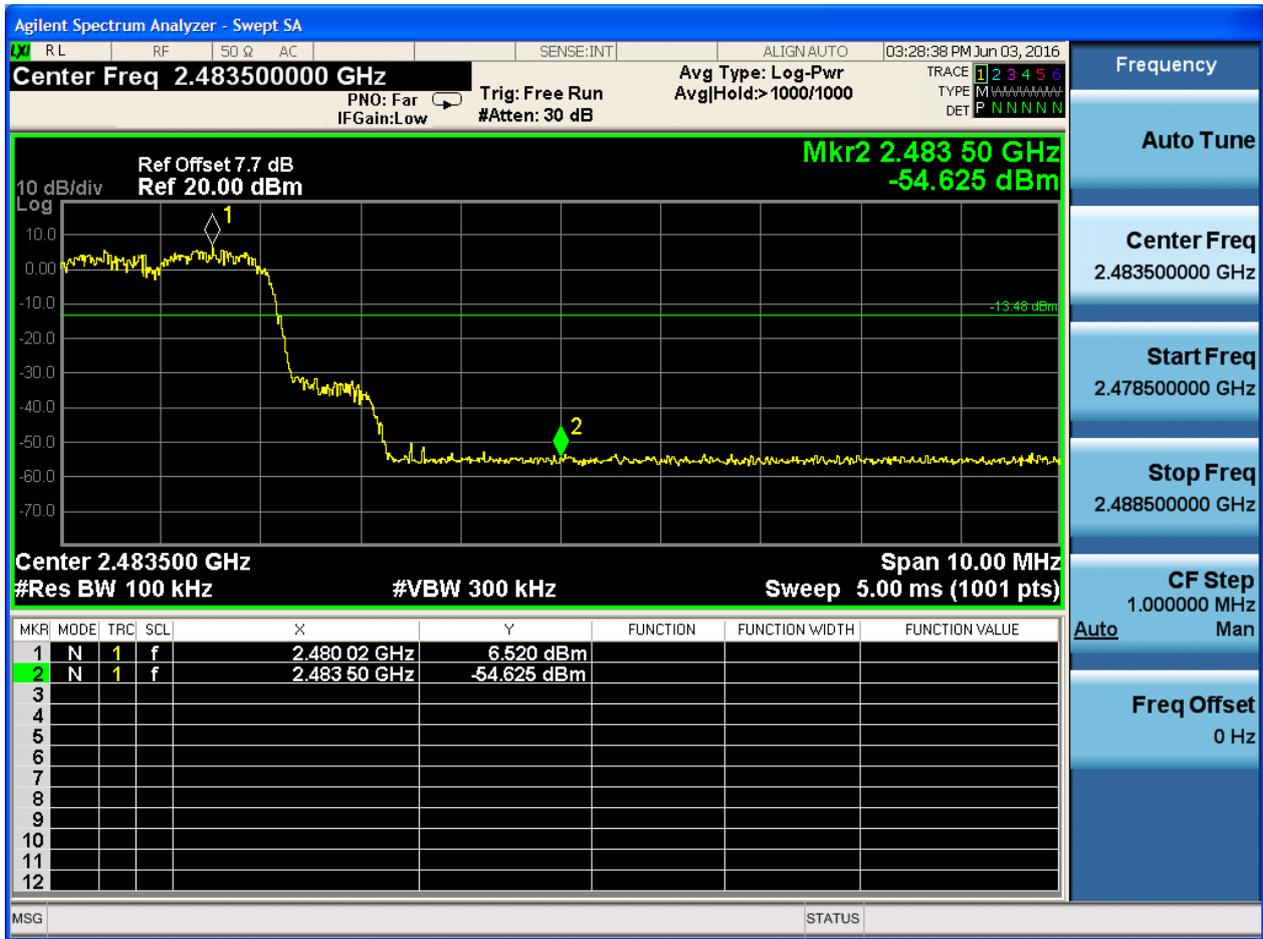
### 2.6 TM3\_3DH5\_Ch78

No hopping





### With hopping





# Appendix G: Conducted RF Spurious Emission



## 1 Result Table

In this Appendix, the “Pref” refers to the peak power level in any 100 kHz bandwidth within the fundamental emission which is used as the reference level, the “Puw” refers to the maximum emission power in 100 kHz band segments outside of the authorized frequency band.

Considering that the higher ratio of RBW to the span for the frequency ranges below 30 MHz makes the results determination be complicated, a narrower RBW other than 100 kHz is used for these ranges. The measured value should add a RBW correction factor (RBWCF) where  $RBWCF [dB] = 10 \times \lg(100 [kHz]/\text{narrower RBW [kHz]})$ . As to this Appendix, the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

In the result table, the “< Limit” denotes that “The Puw [dBm] is less than Pref [dBm] - 20 [dB], see test plots for detailed”.

EUT Conf.	Pref [dBm/100 kHz]	Puw [dBm/100 kHz]	Verdict
TM1_DH5_Ch0	10.161	< Limit	Pass
TM1_DH5_Ch39	11.781	< Limit	Pass
TM1_DH5_Ch78	10.574	< Limit	Pass
TM2_2DH5_Ch0	8.574	< Limit	Pass
TM2_2DH5_Ch39	10.154	< Limit	Pass
TM2_2DH5_Ch78	8.936	< Limit	Pass
TM3_3DH5_Ch0	8.547	< Limit	Pass
TM3_3DH5_Ch39	10.134	< Limit	Pass
TM3_3DH5_Ch78	8.932	< Limit	Pass



## 2 Test Plot

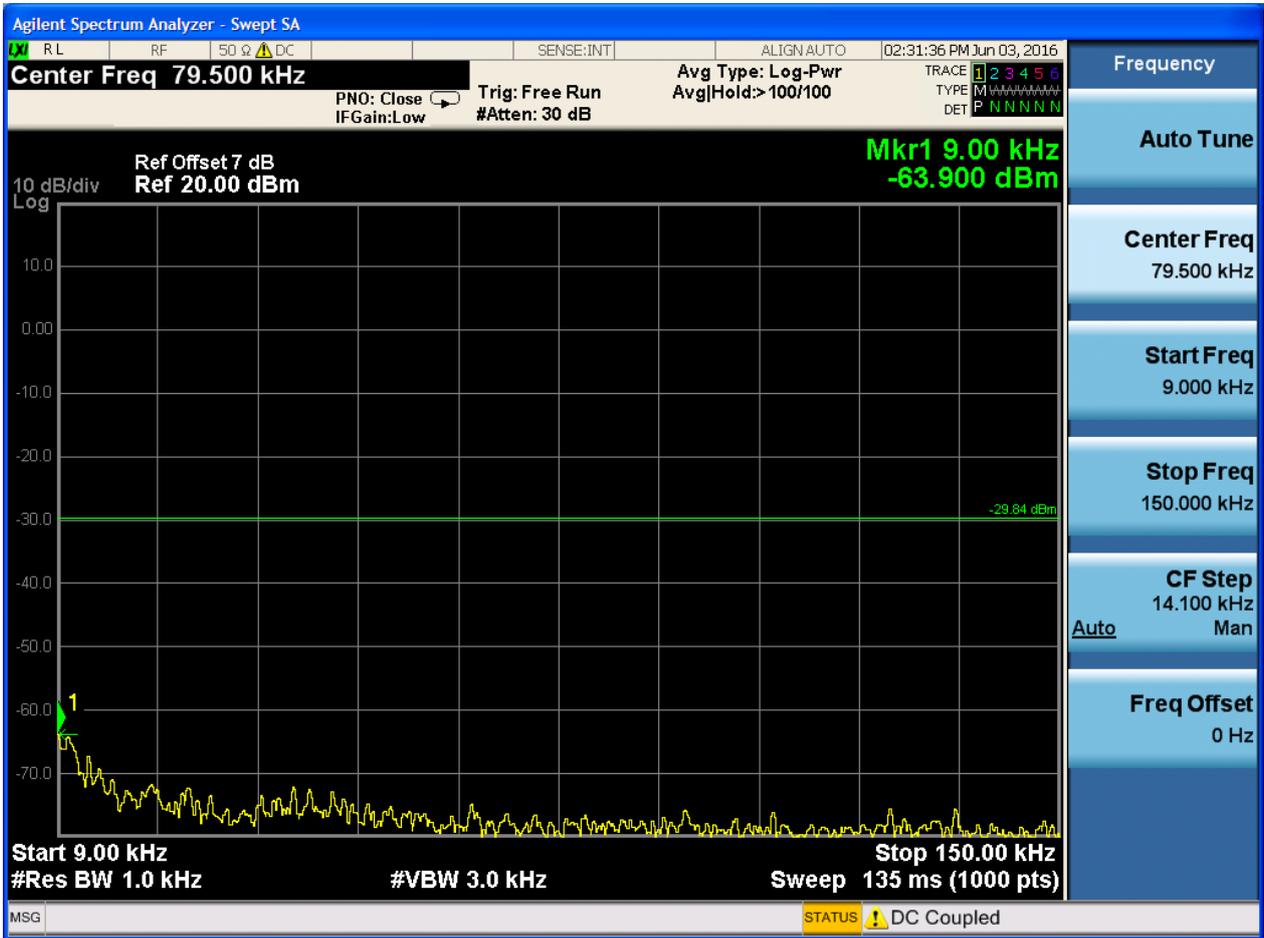
### 2.1 TM1\_DH5\_Ch0

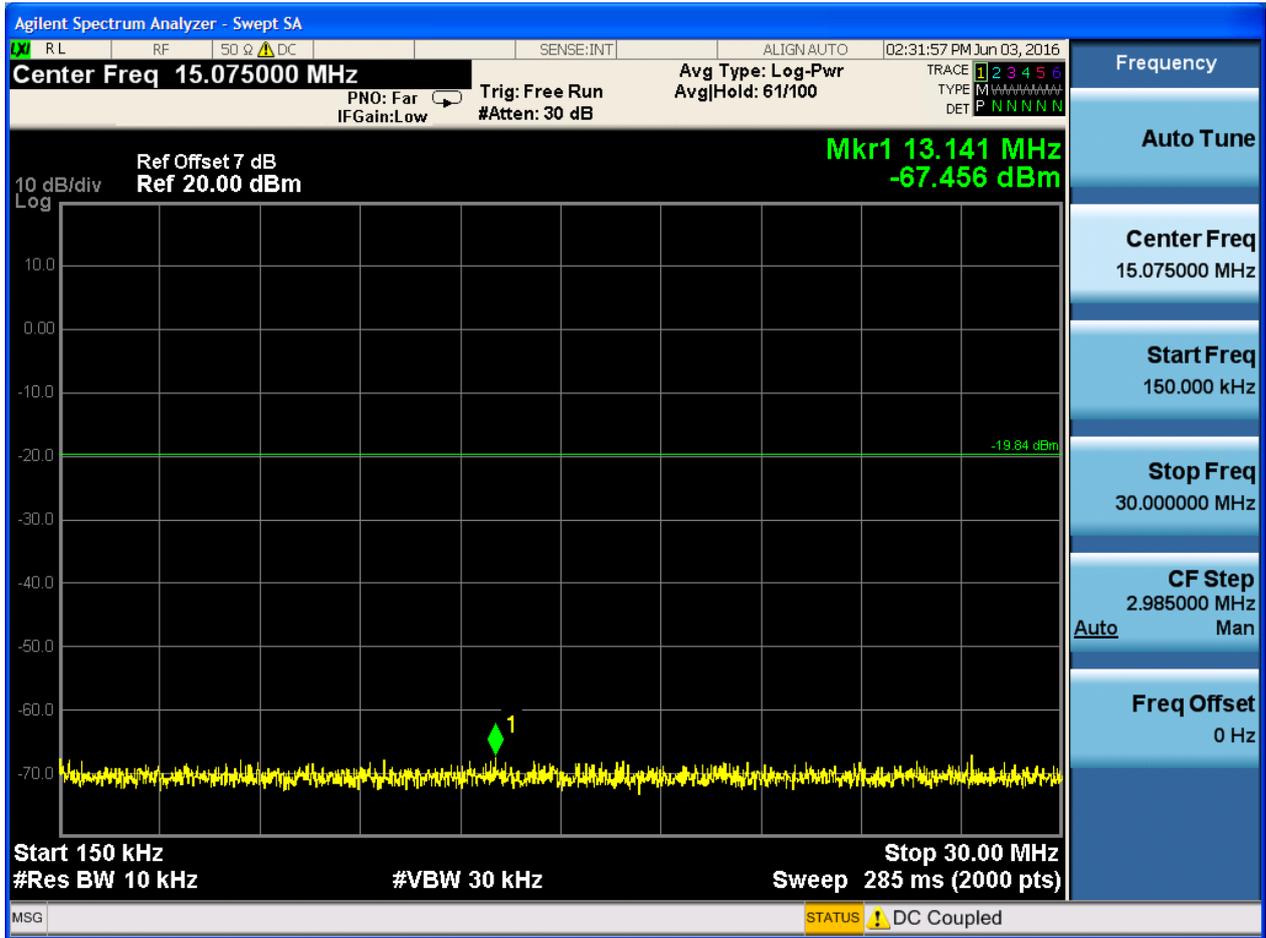
#### 2.1.1 Pref

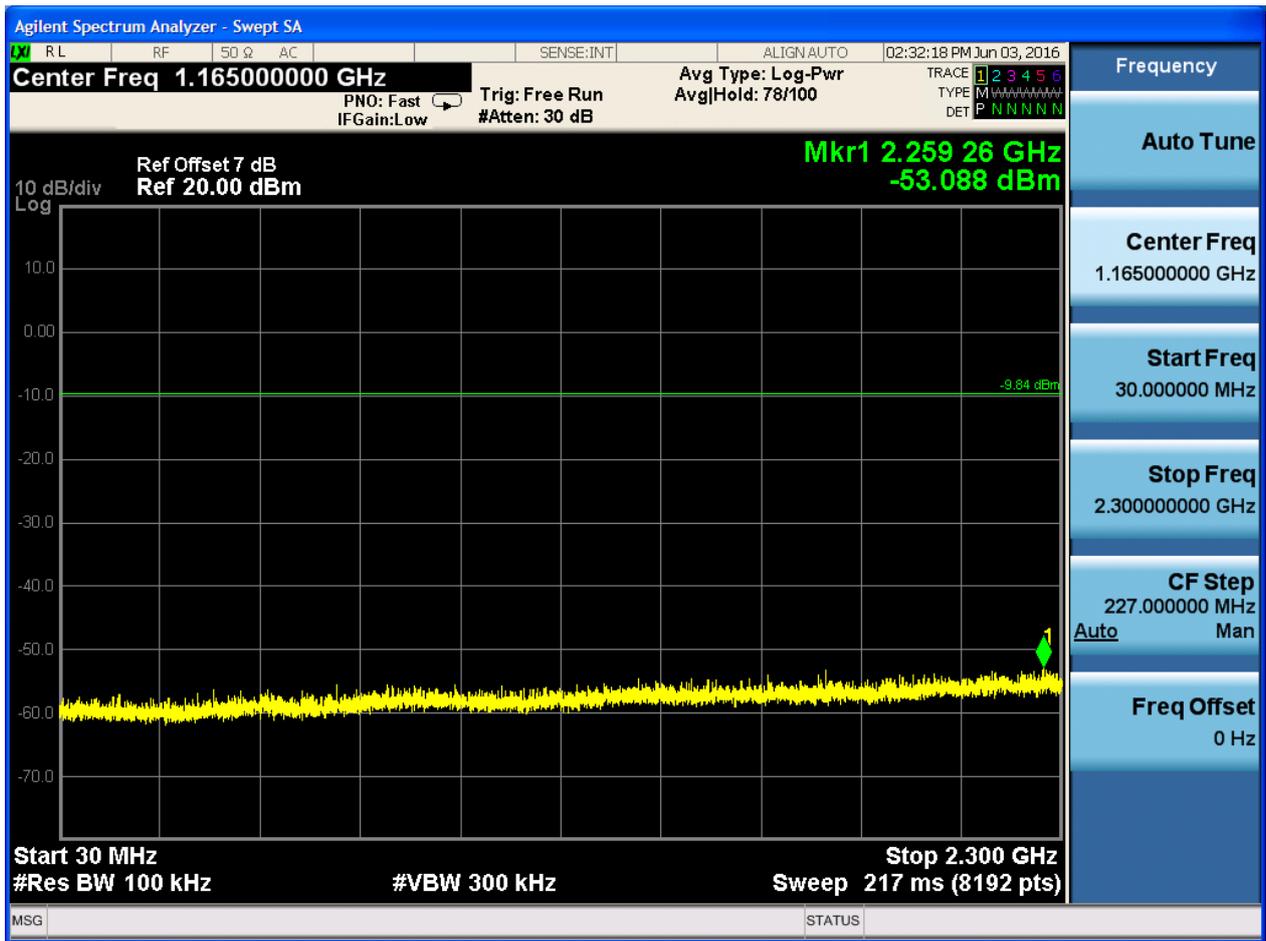


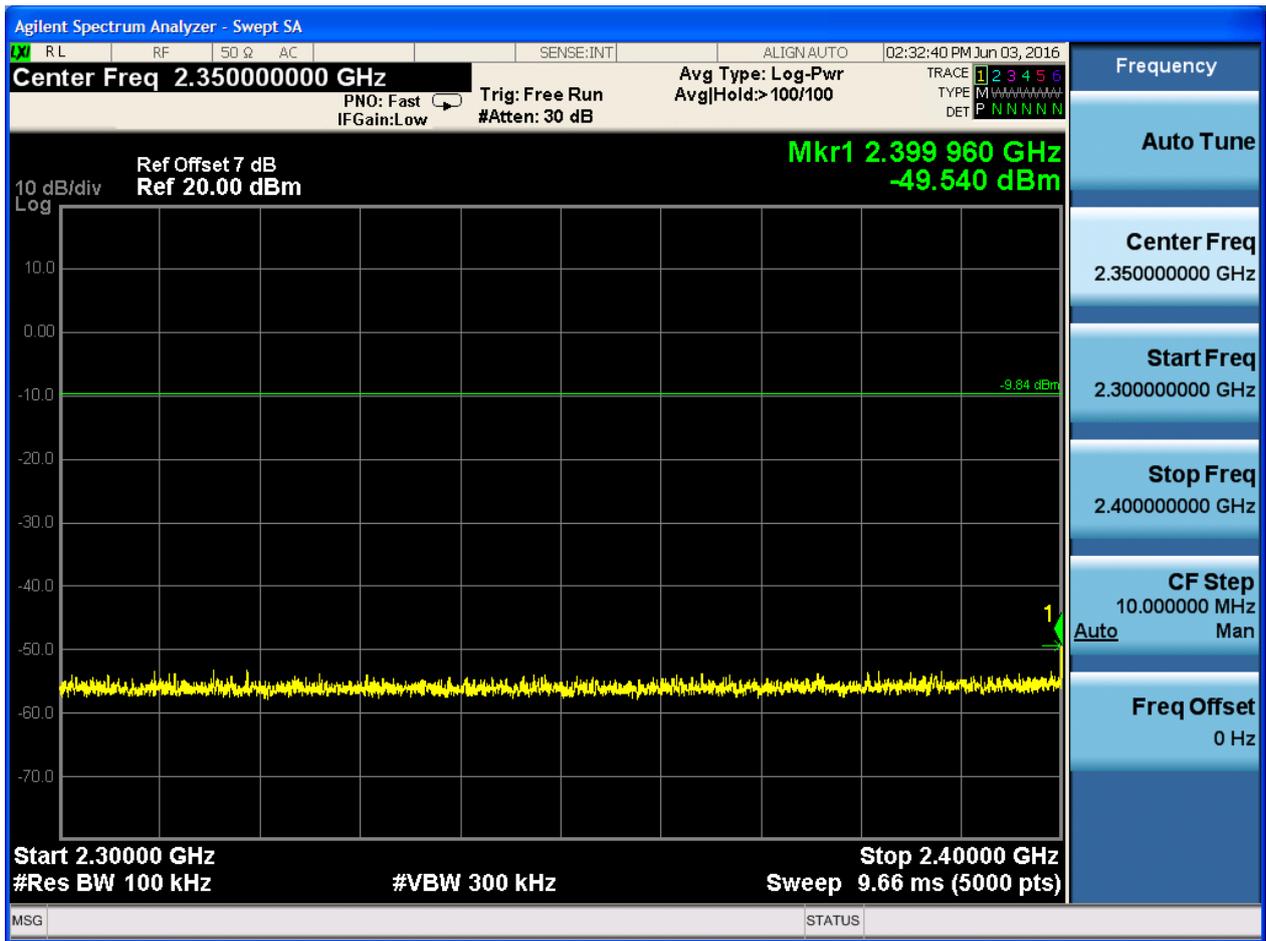


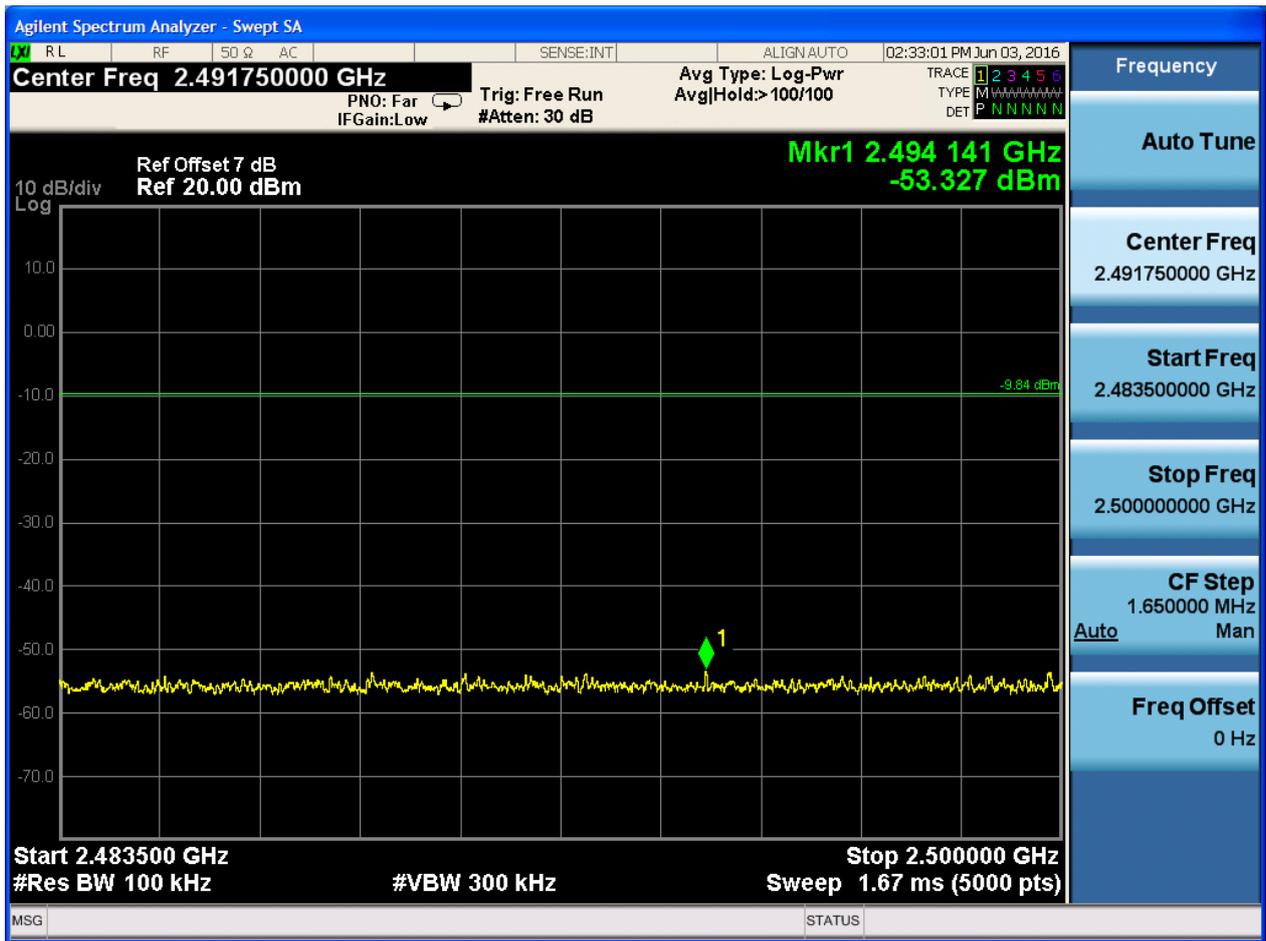
### 2.1.2 Puw















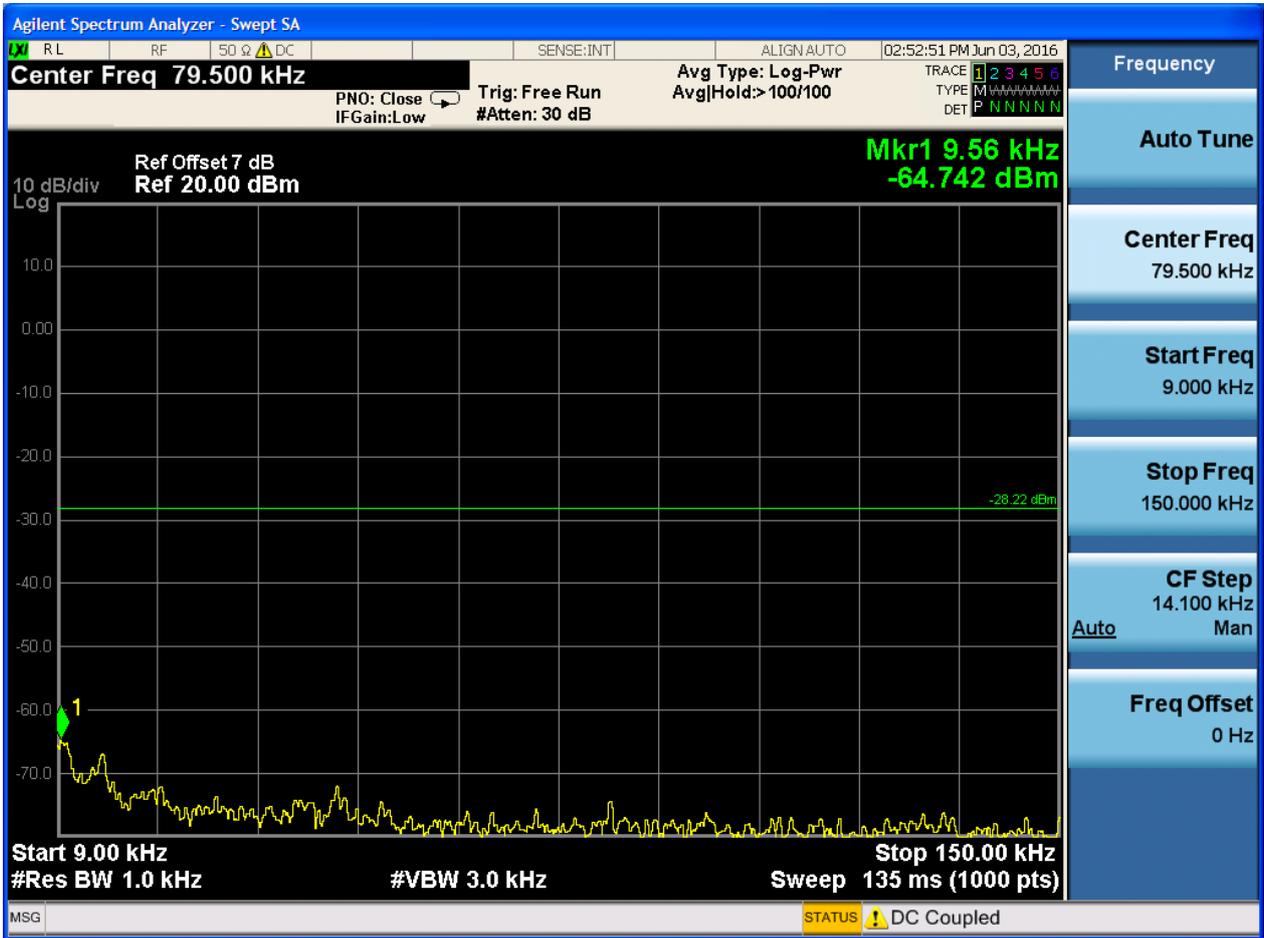
## 2.2 TM1\_DH5\_Ch39

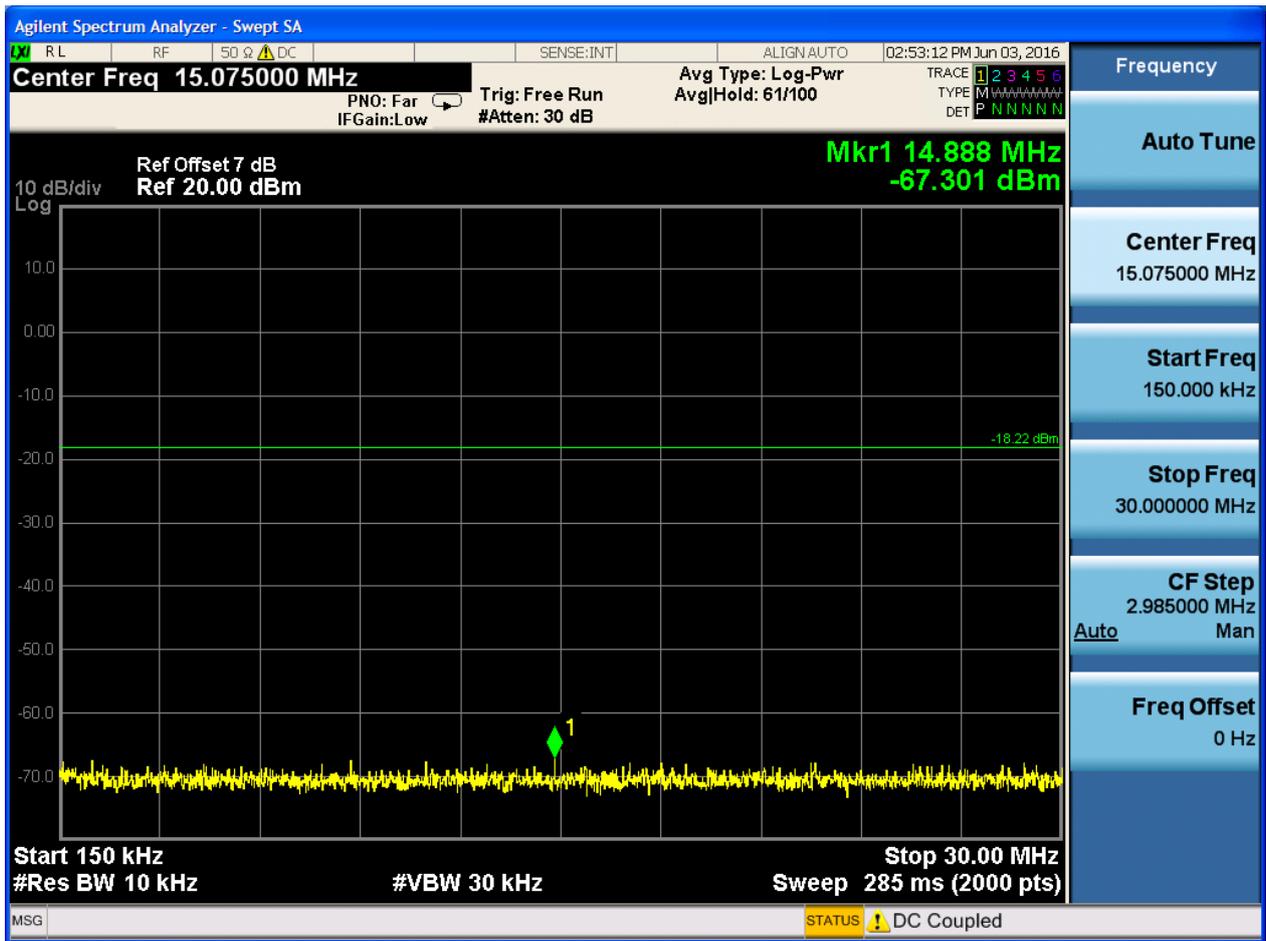
### 2.2.1 Pref

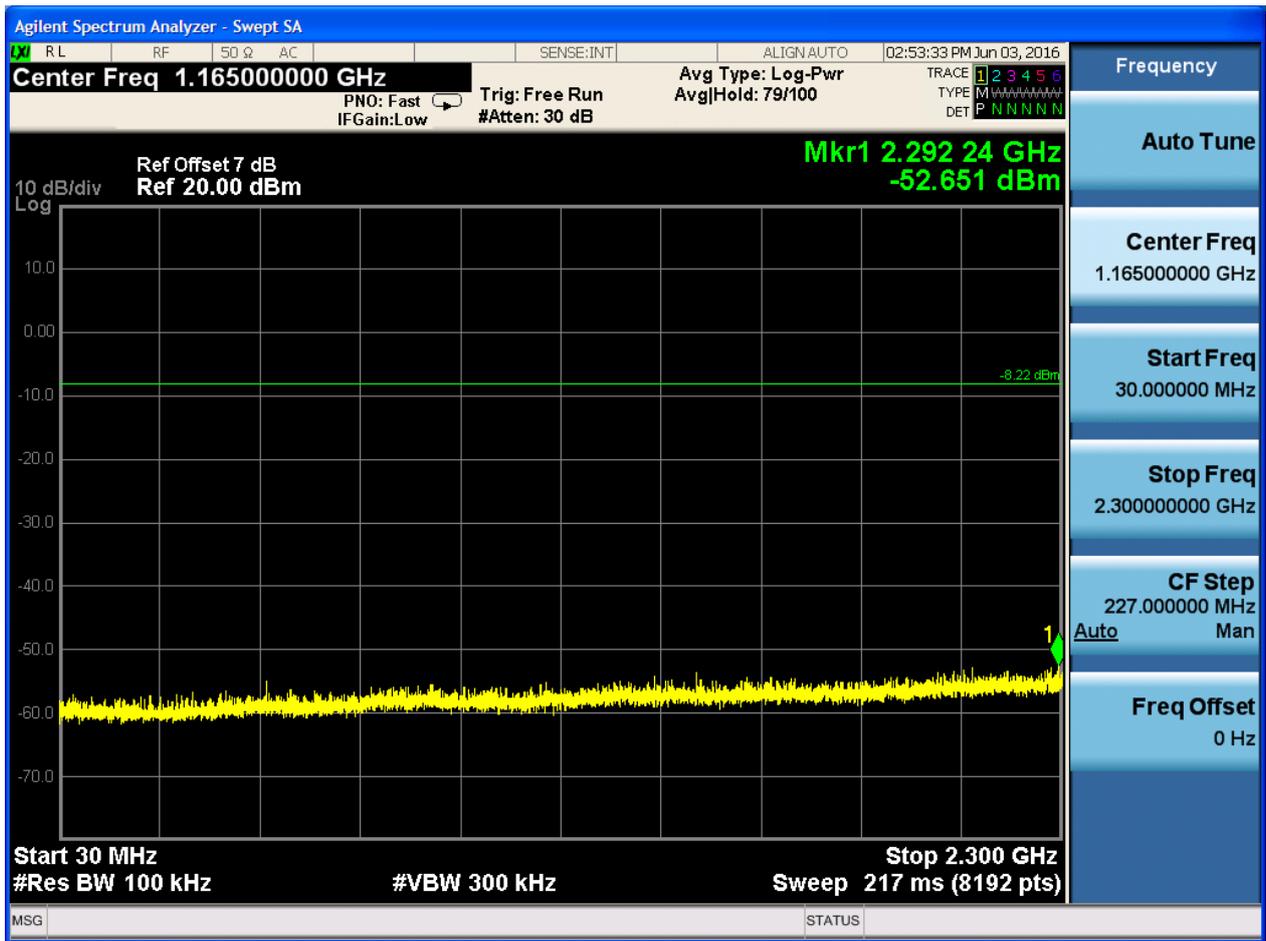


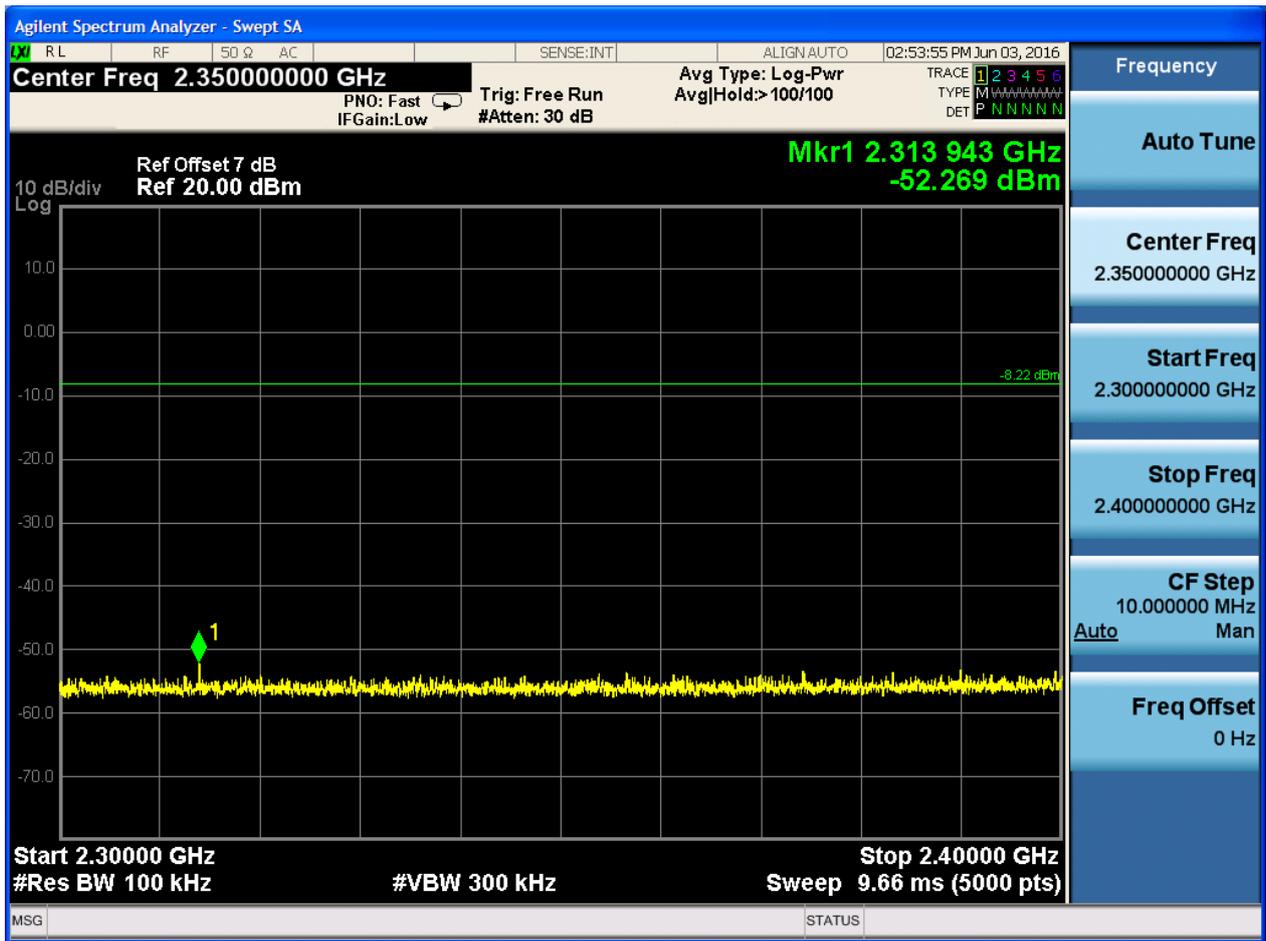


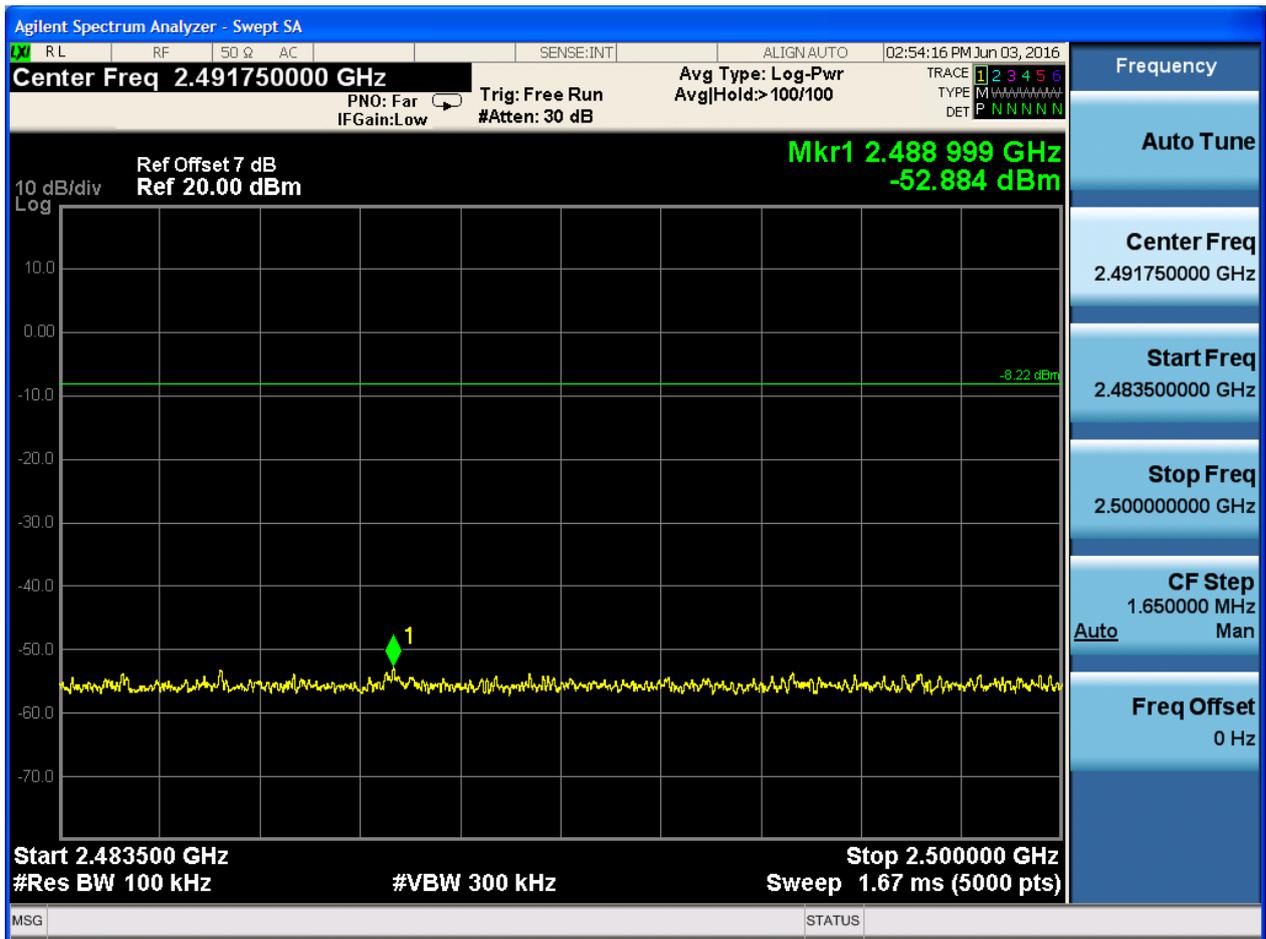
### 2.2.2 Puw









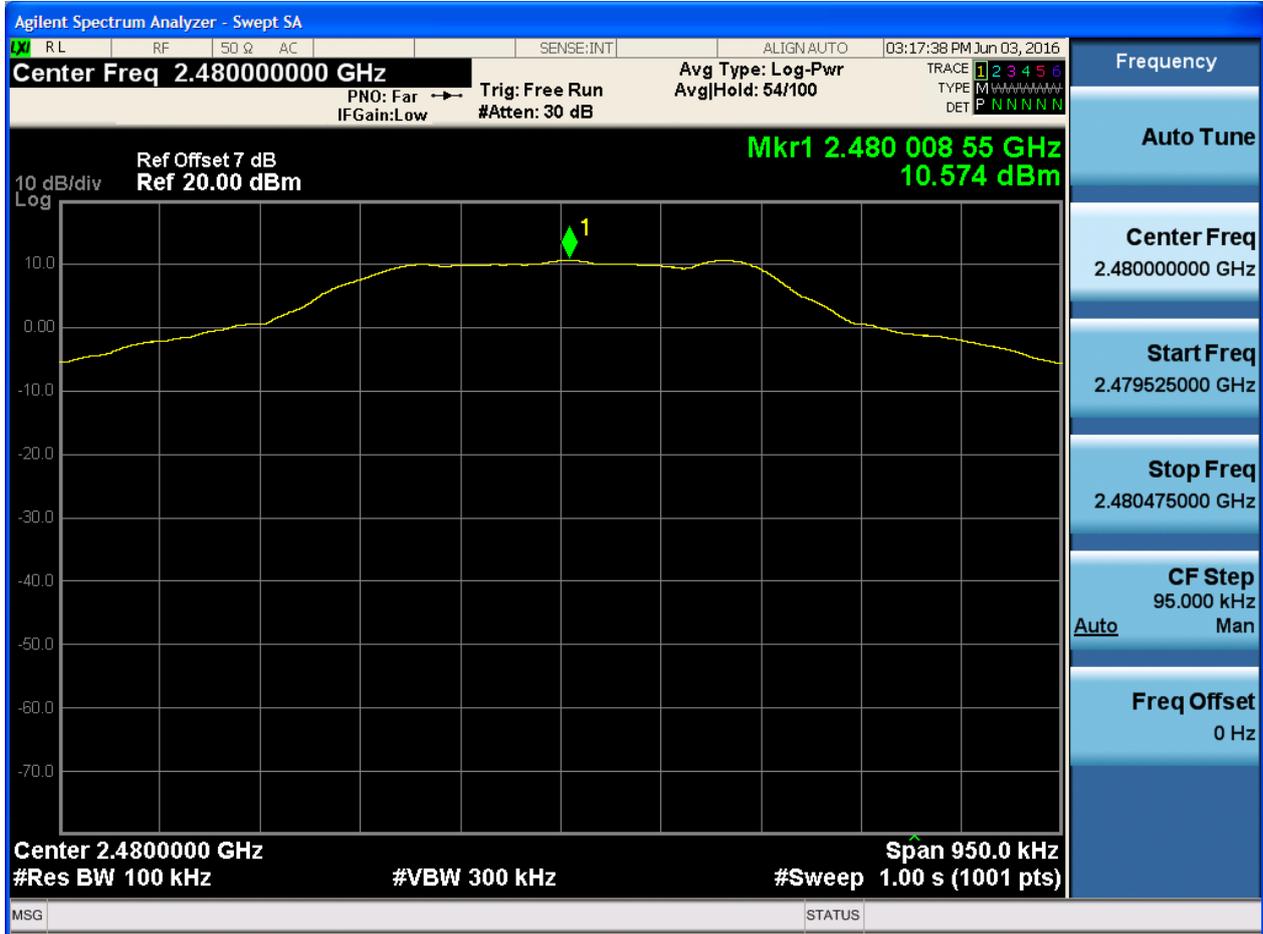






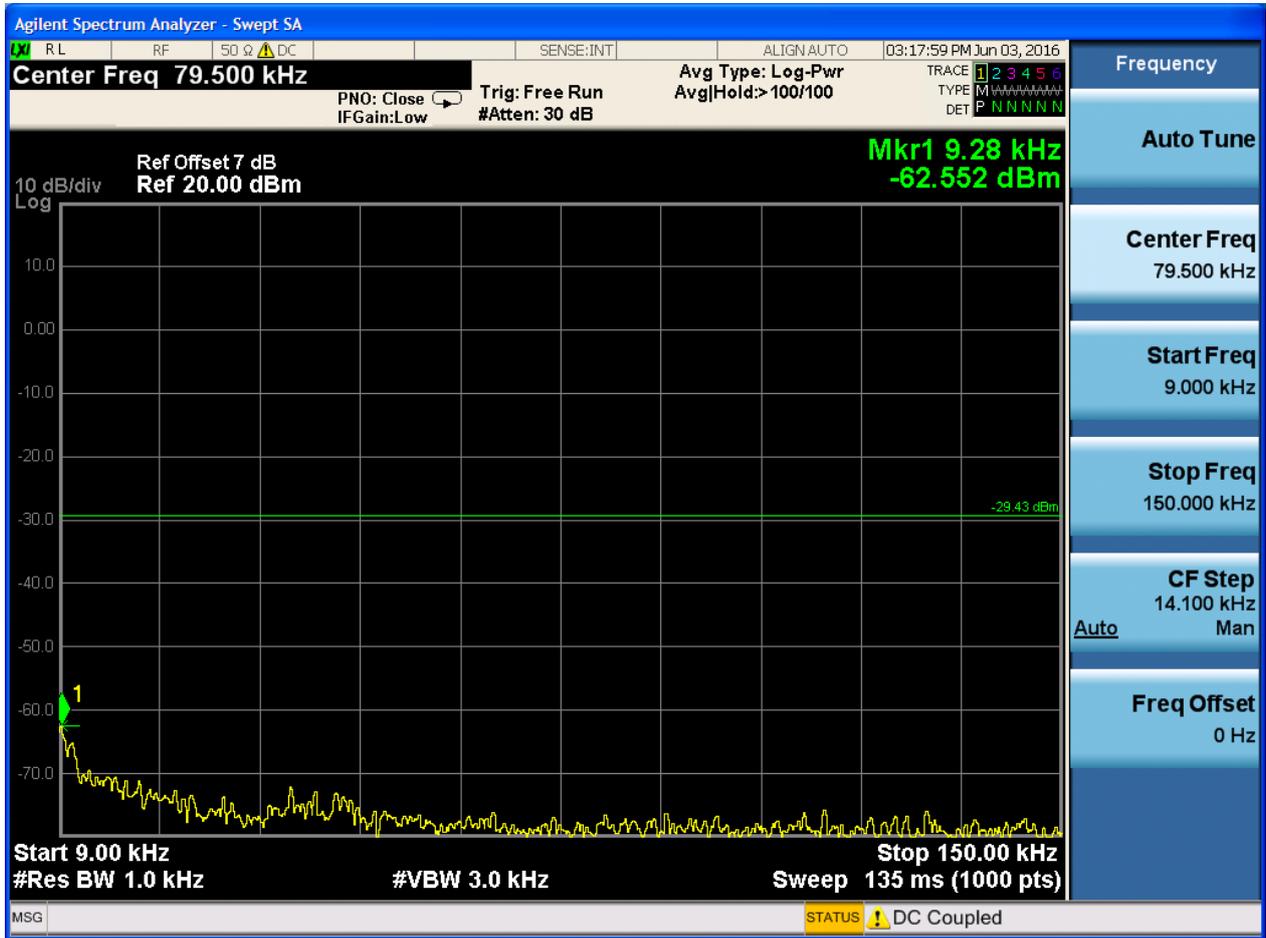
### 2.3 TM1\_DH5\_Ch78

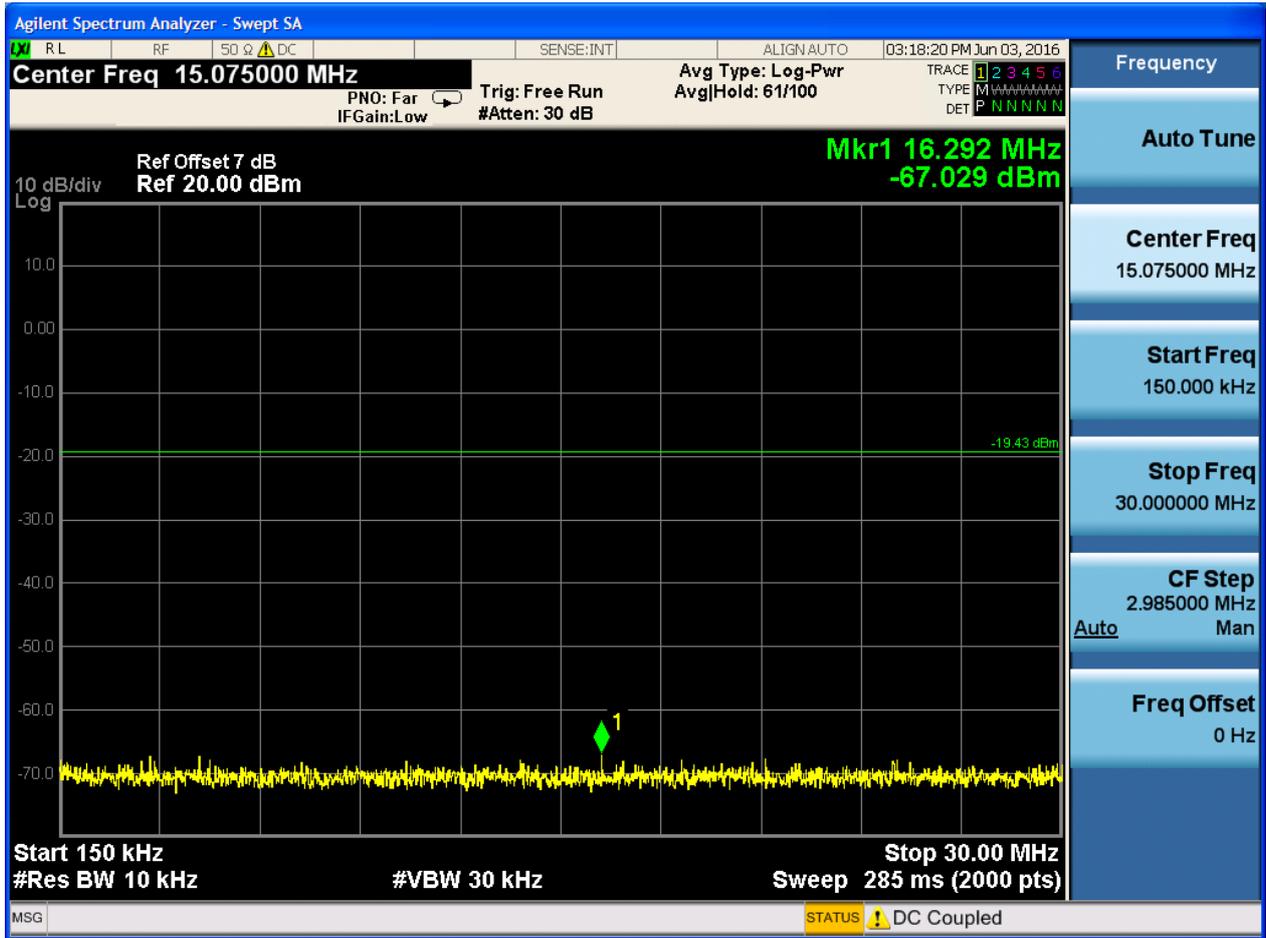
#### 2.3.1 Pref

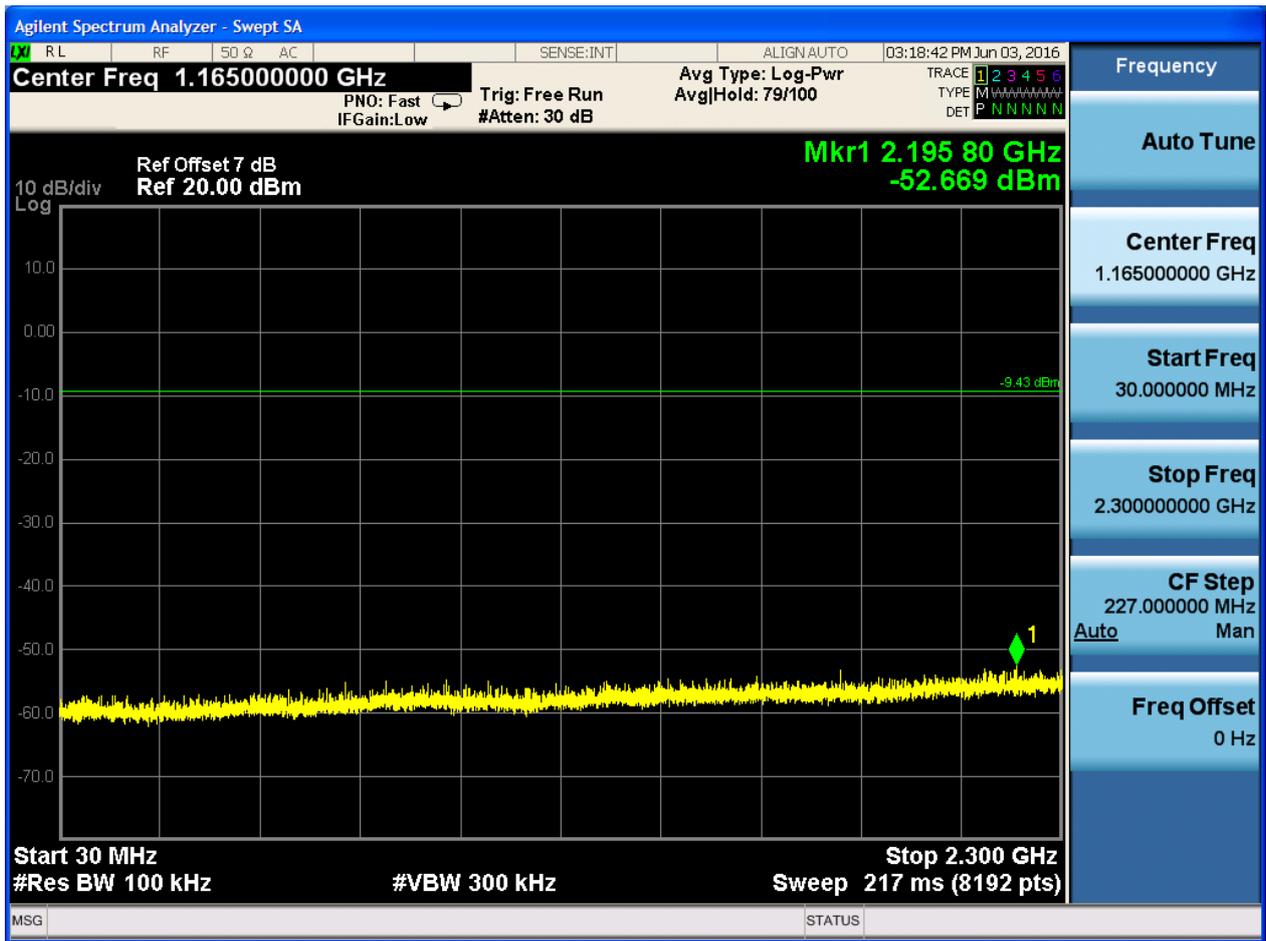


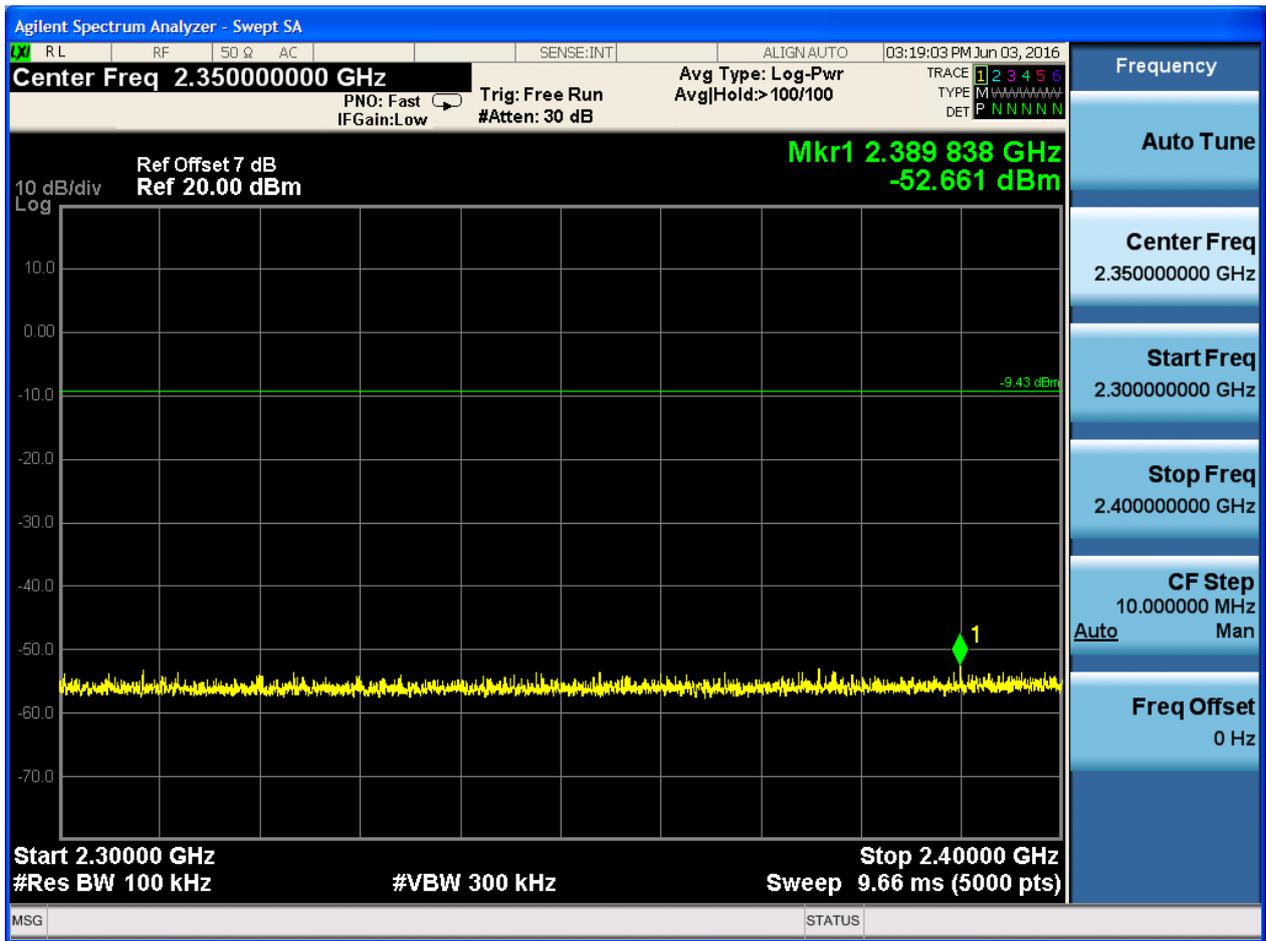


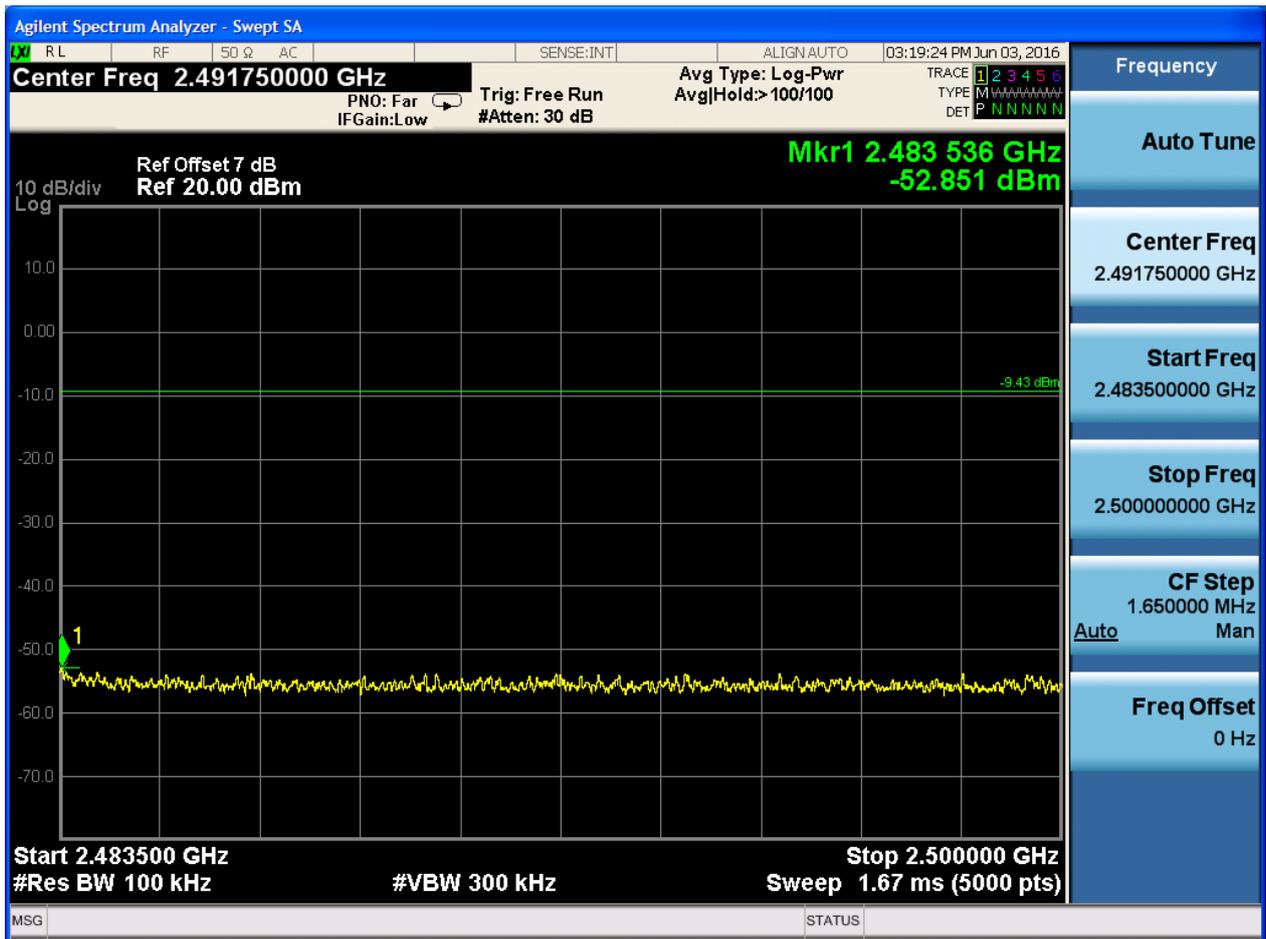
### 2.3.2 Puw















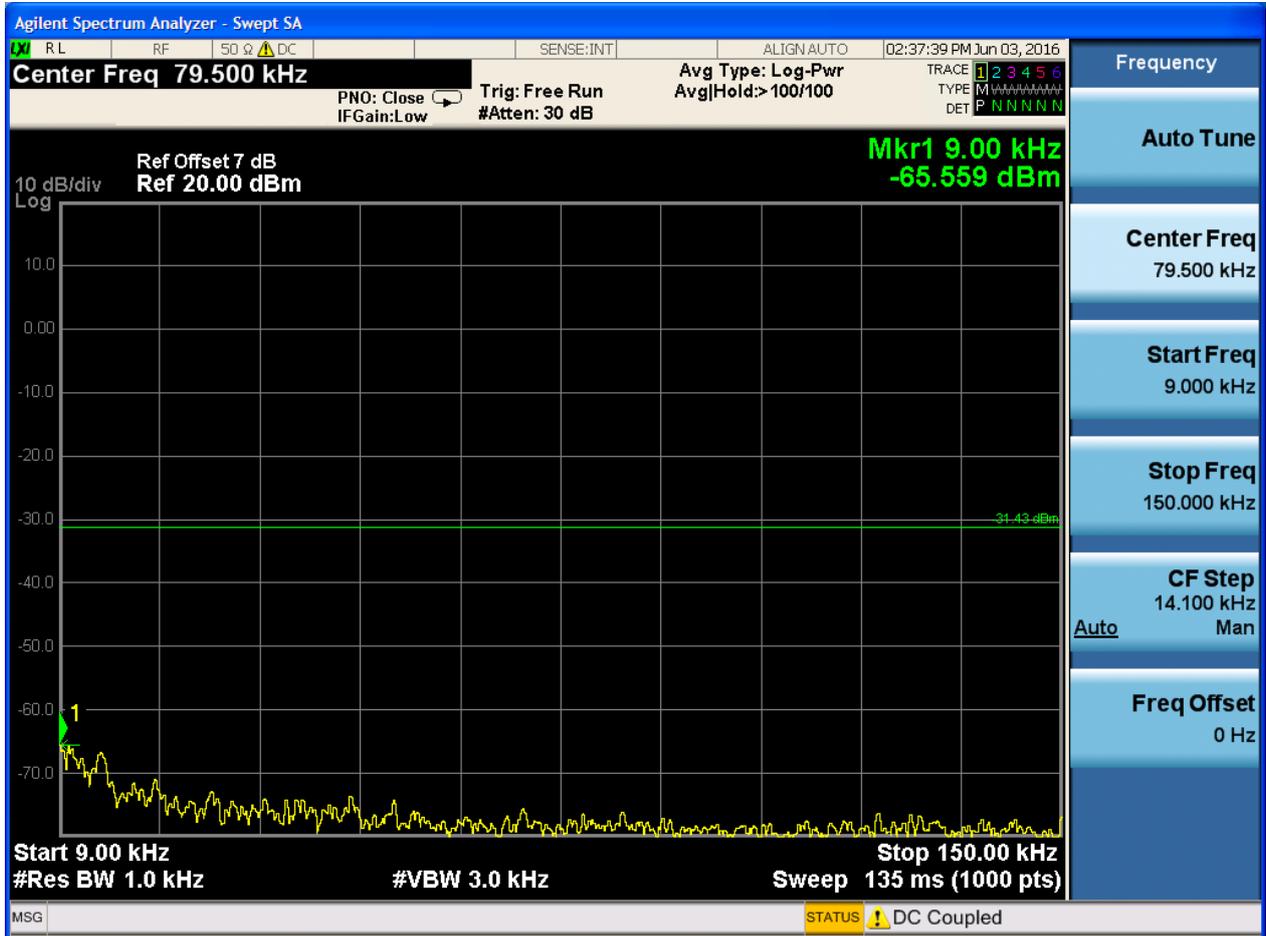
## 2.4 TM2\_2DH5\_Ch0

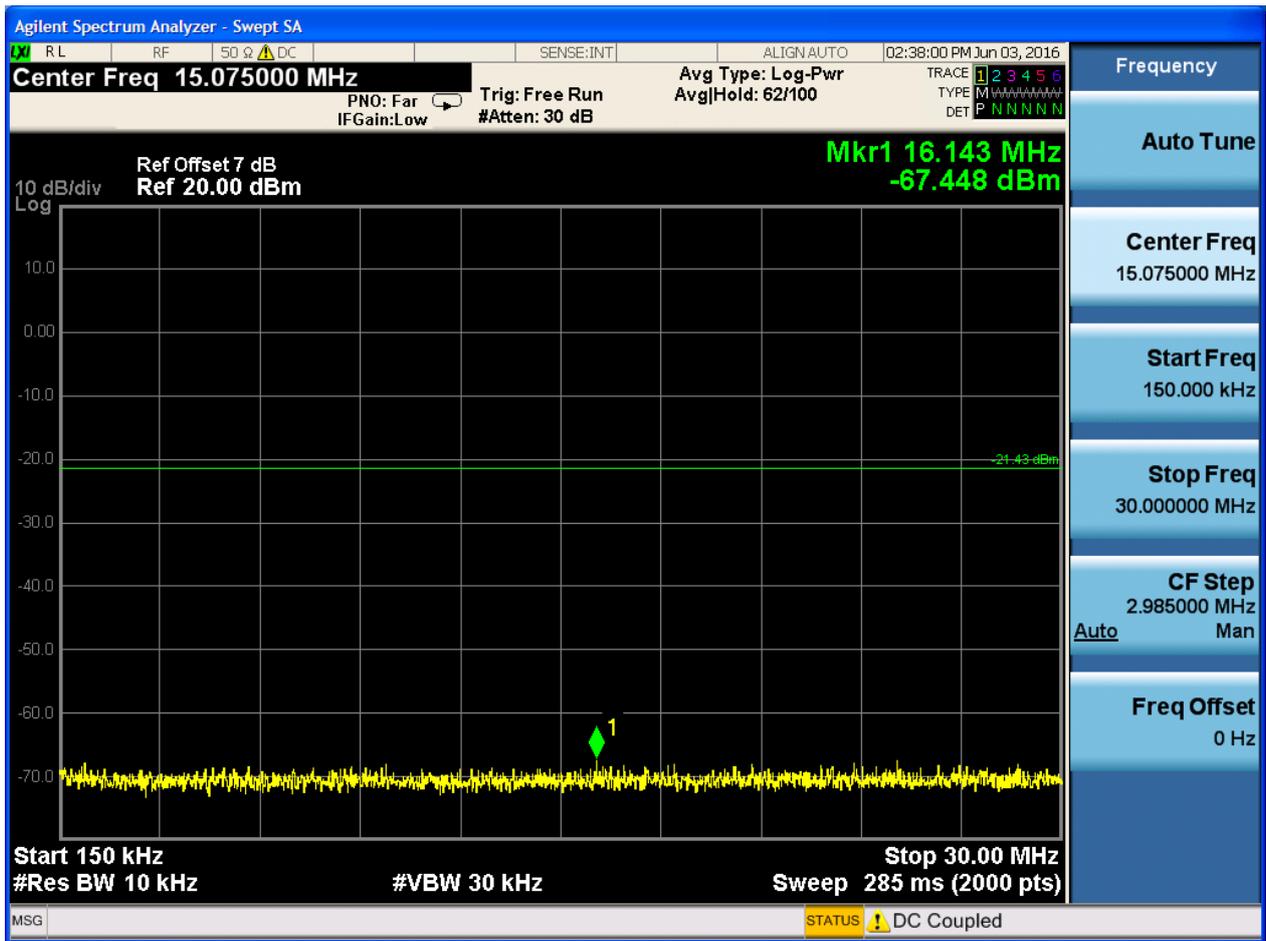
### 2.4.1 Pref

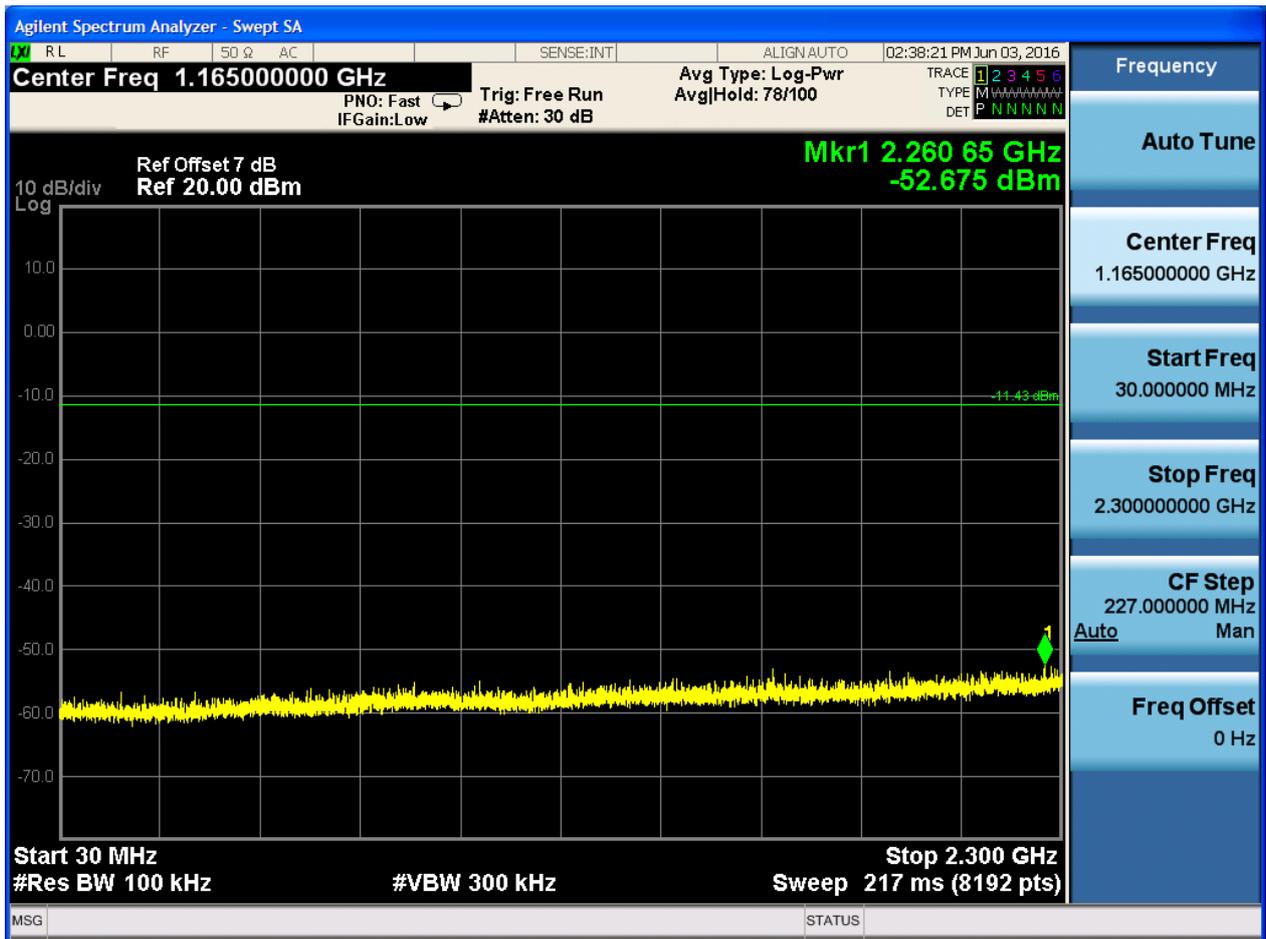




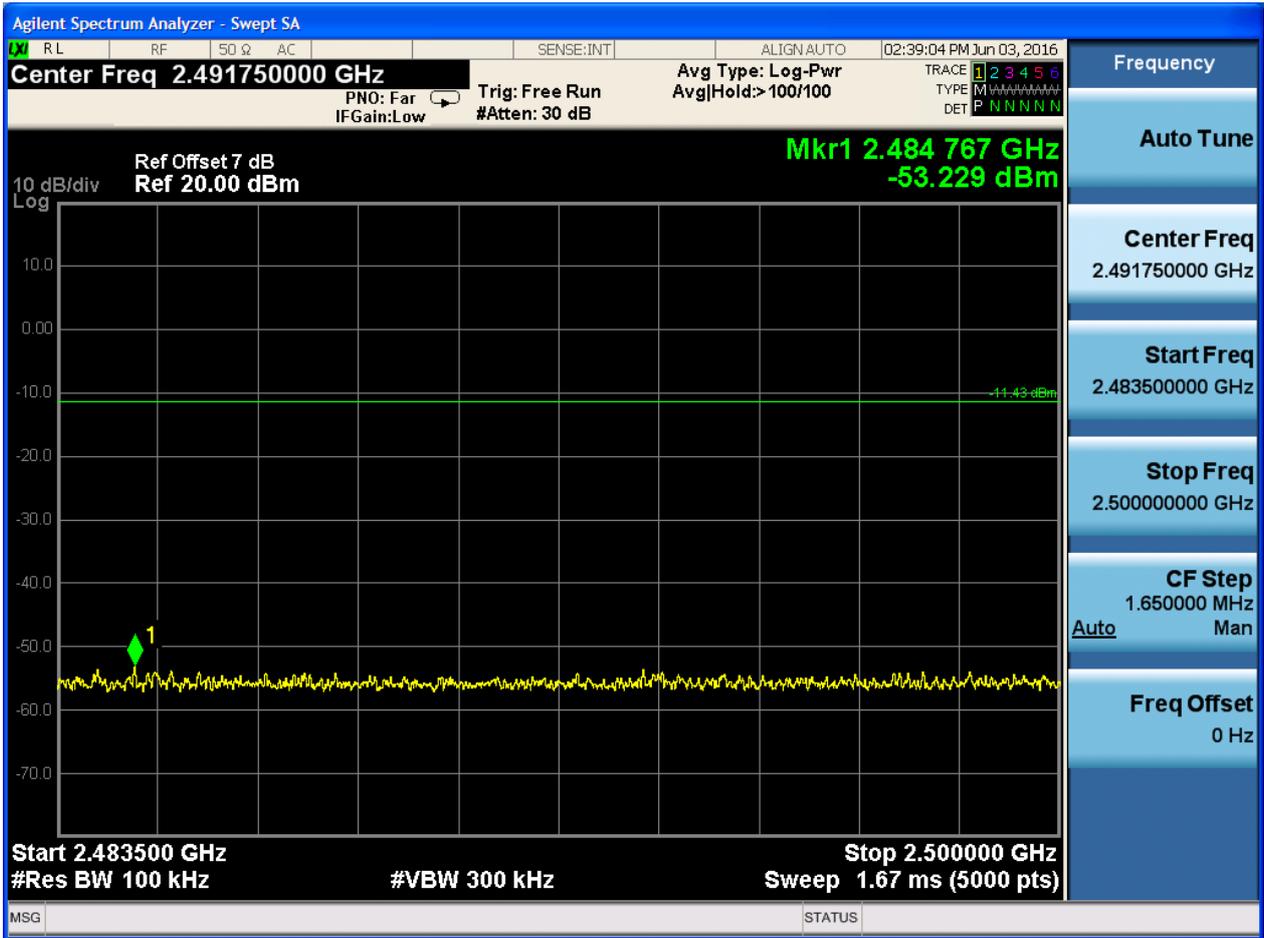
### 2.4.2 Puw















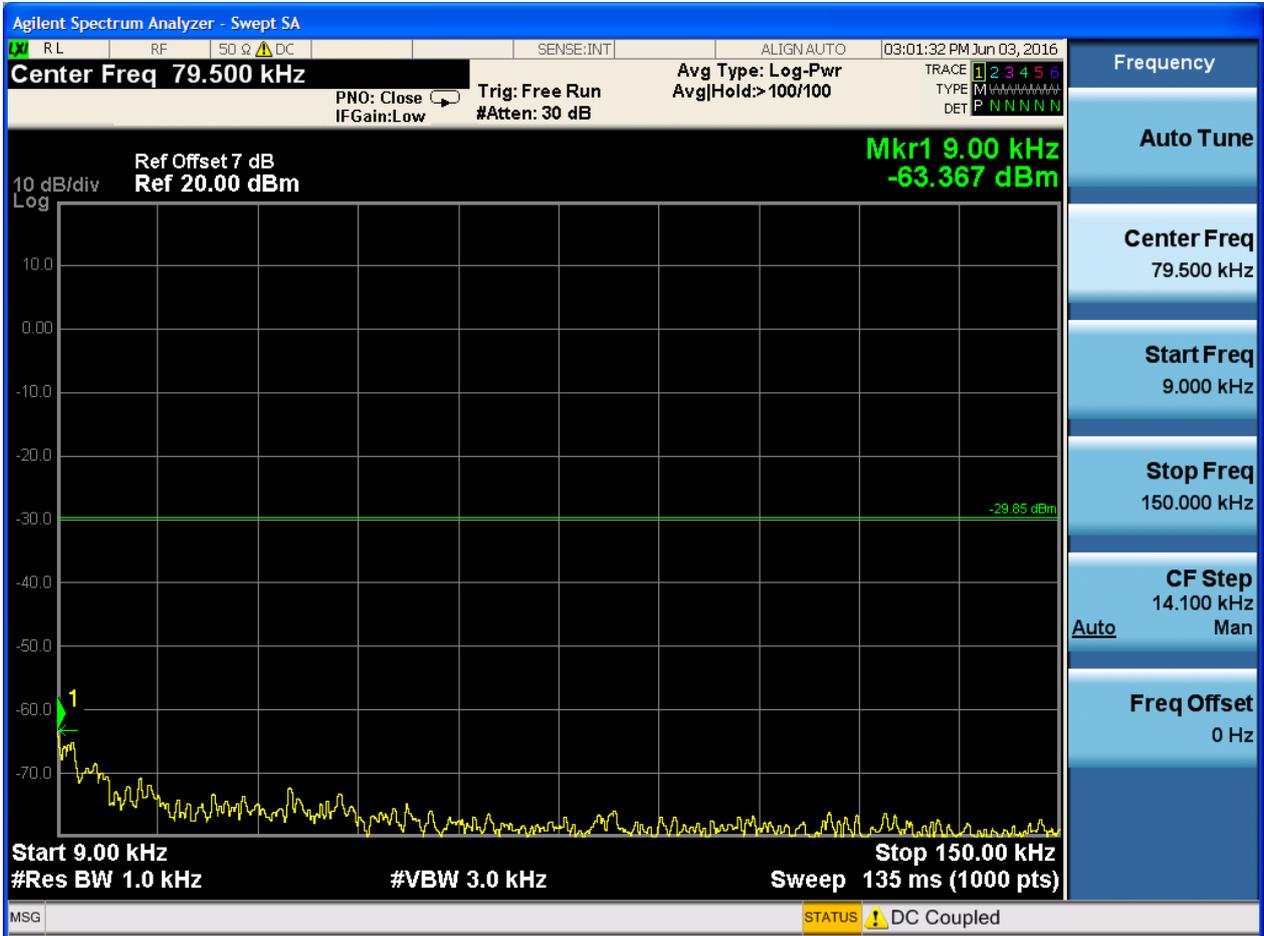
## 2.5 TM2\_2DH5\_Ch39

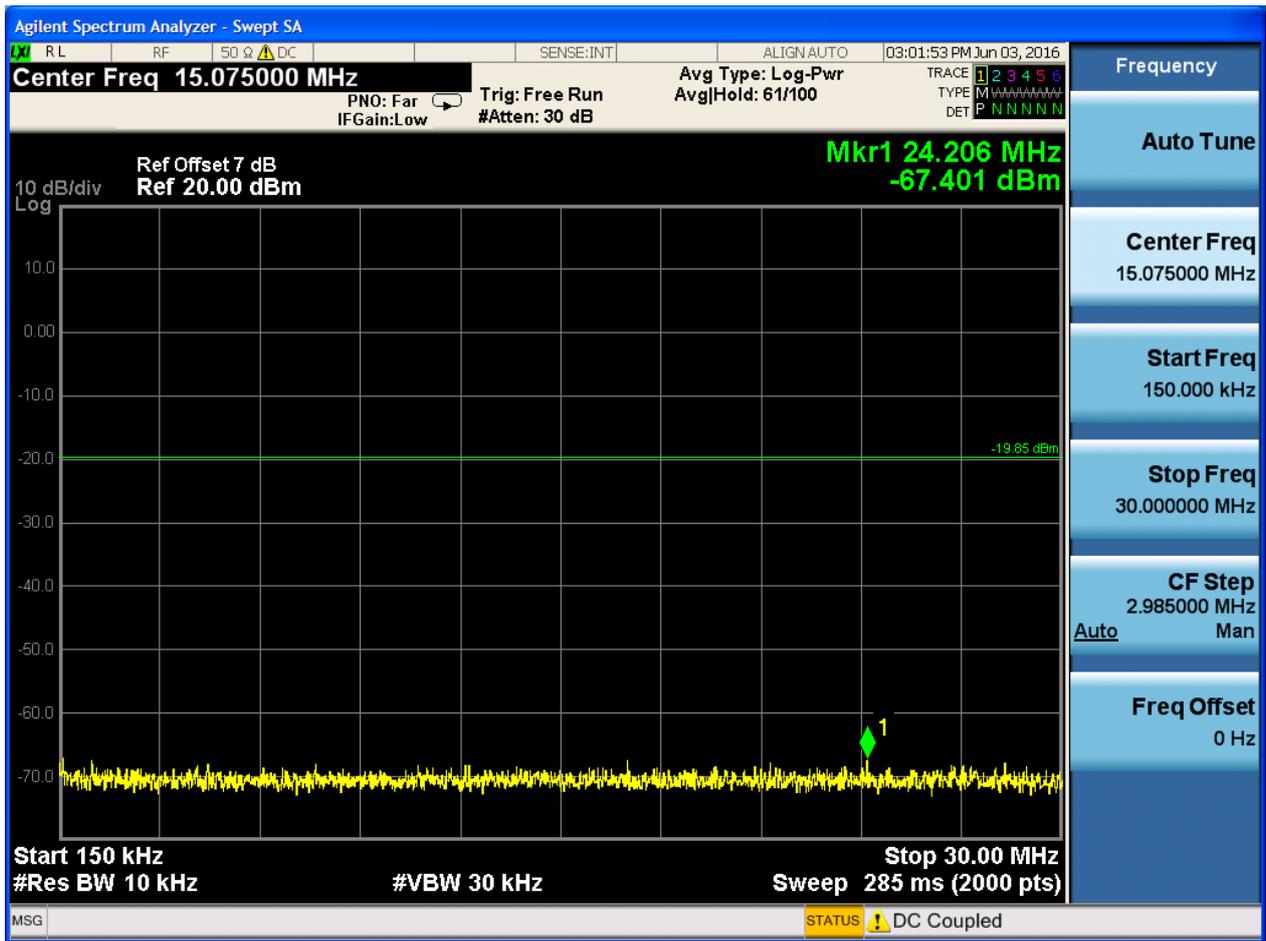
### 2.5.1 Pref

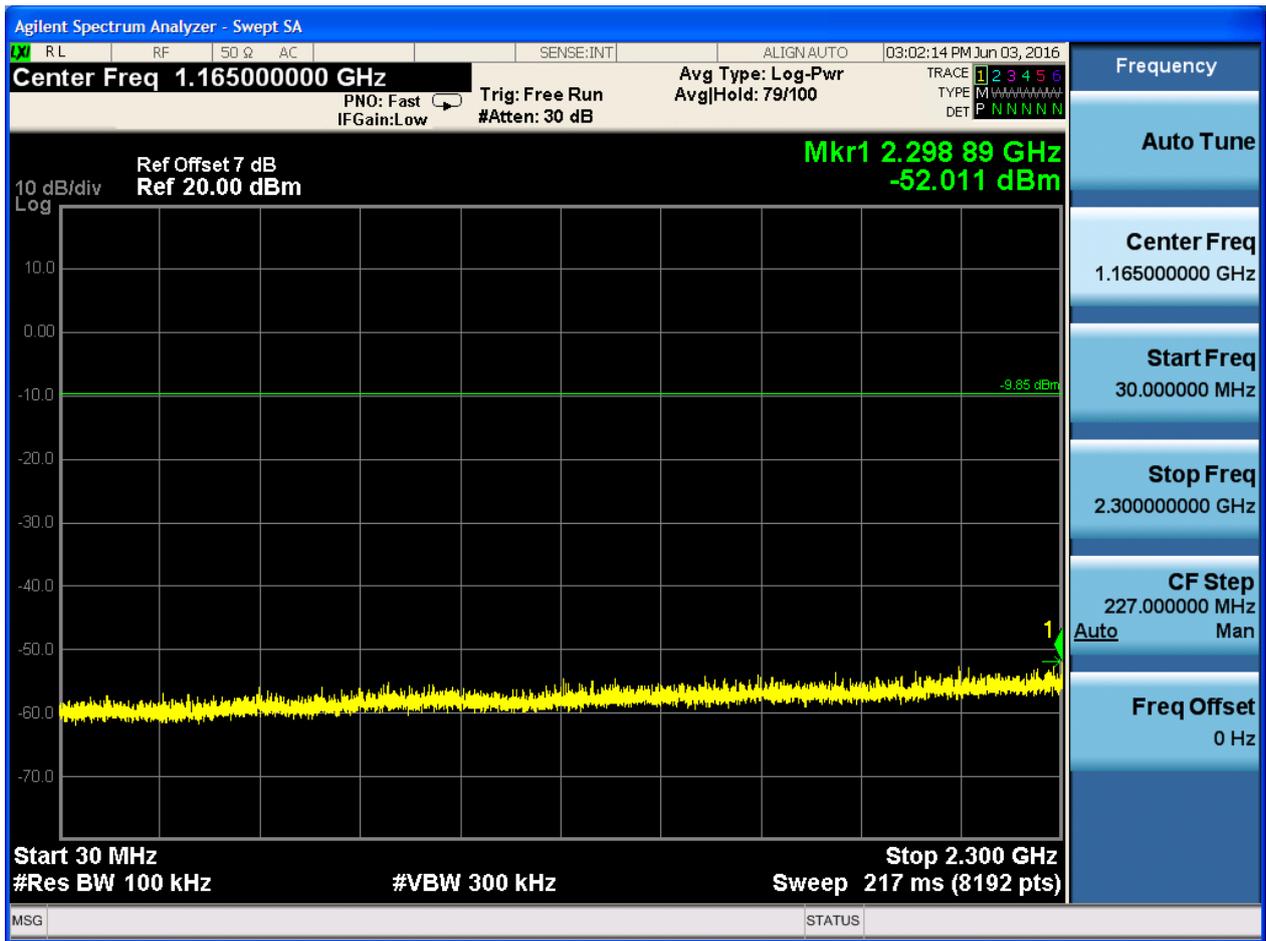


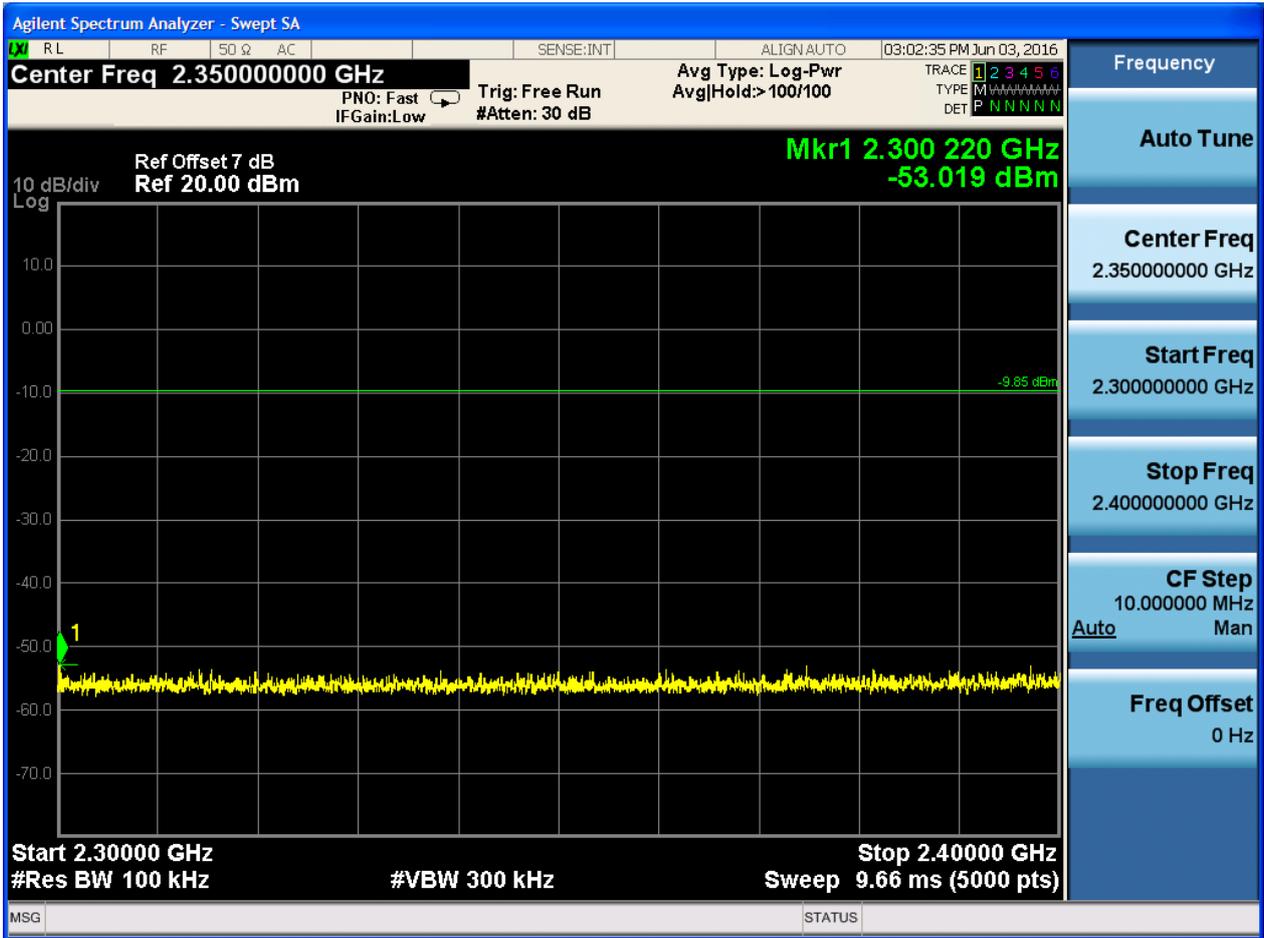


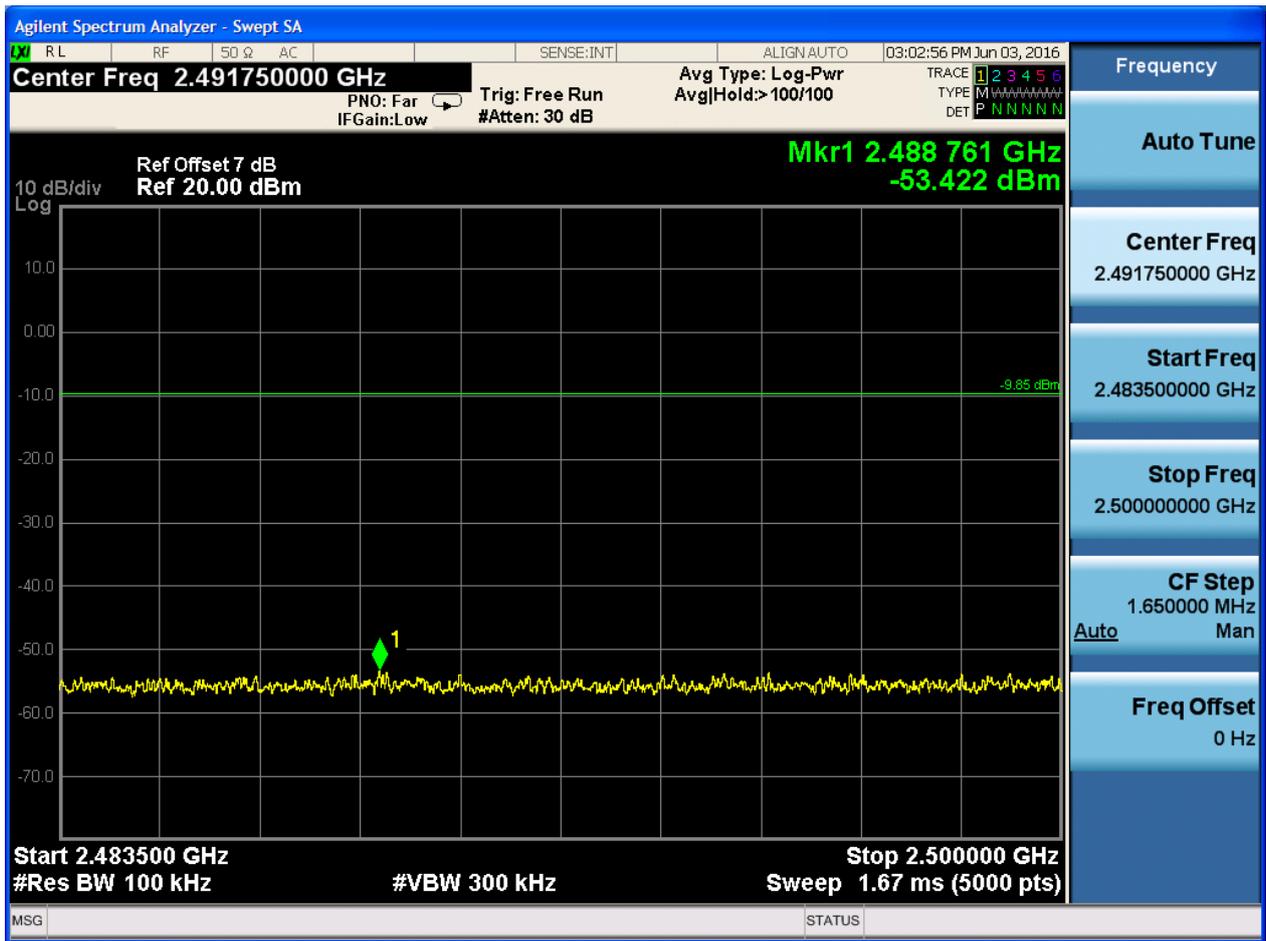
### 2.5.2 Puw















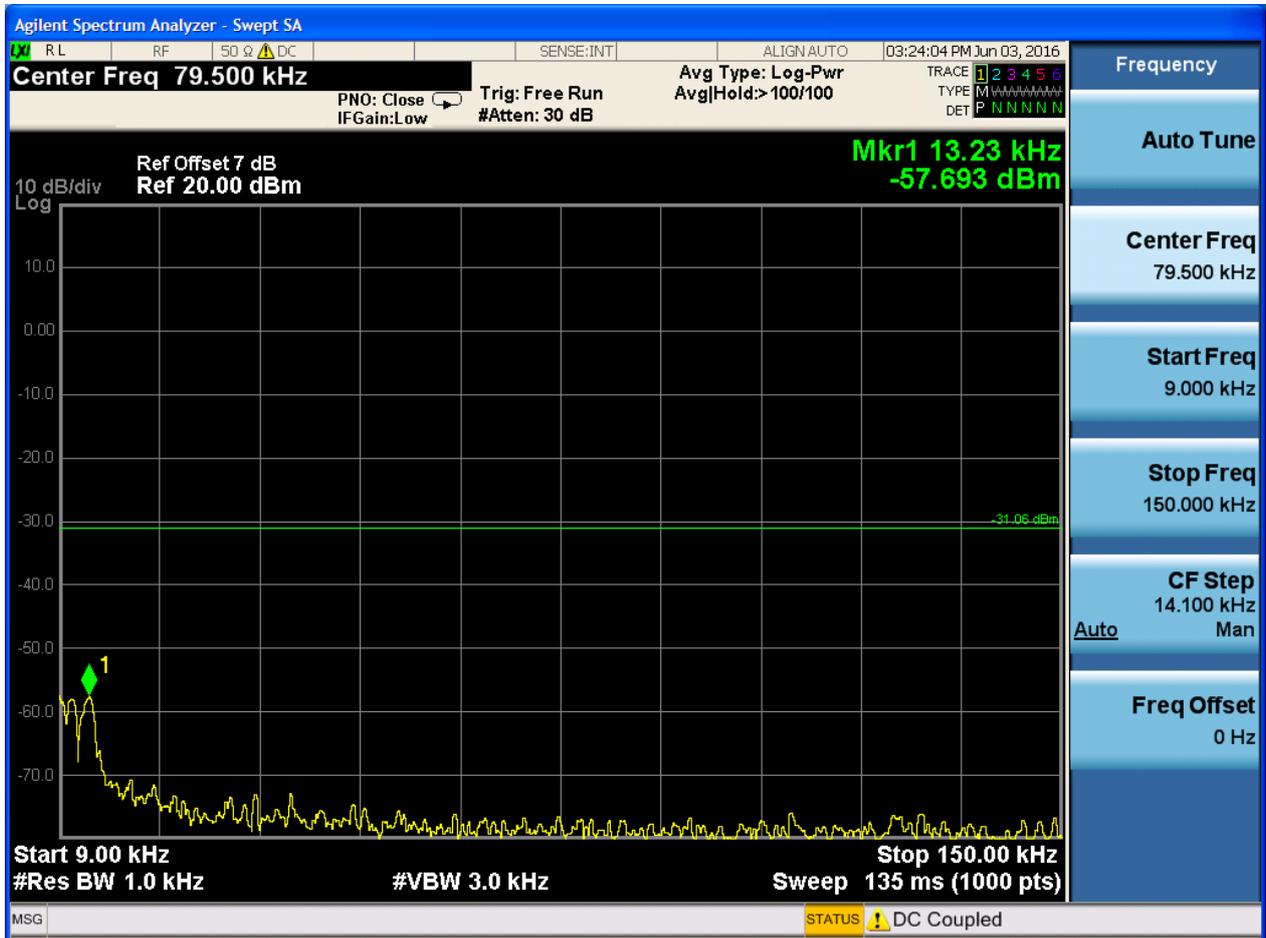
## 2.6 TM2\_2DH5\_Ch78

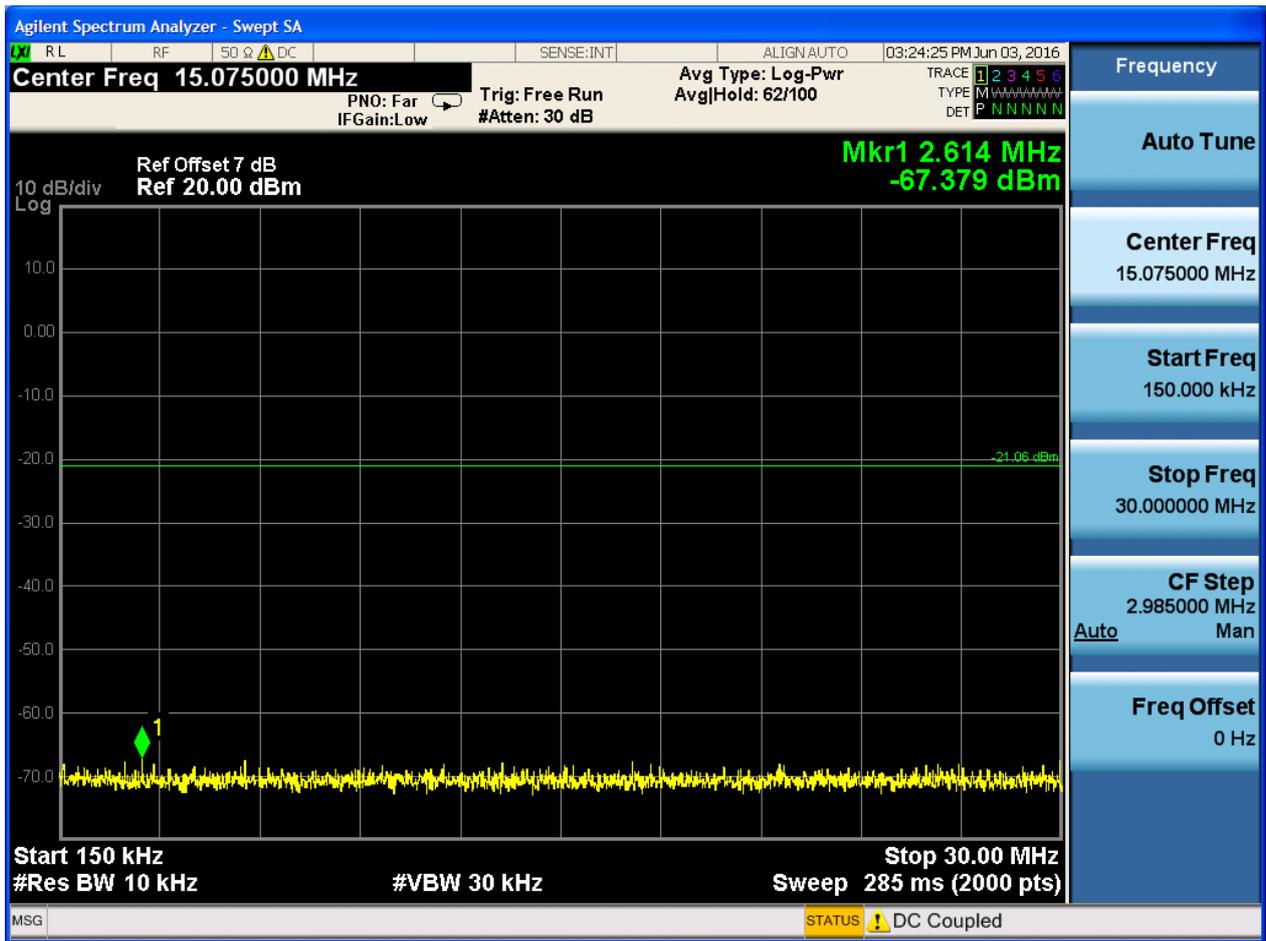
### 2.6.1 Pref

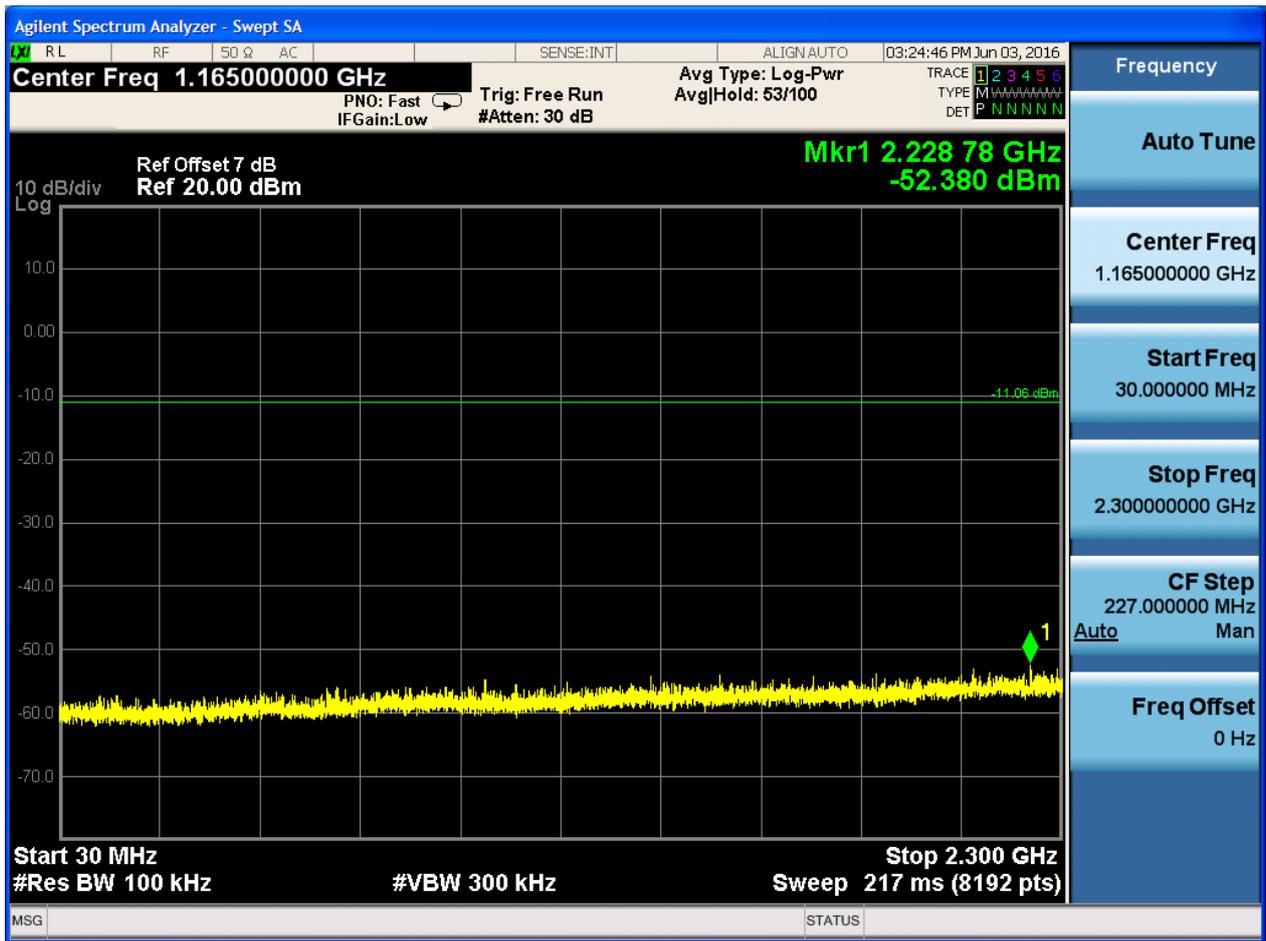




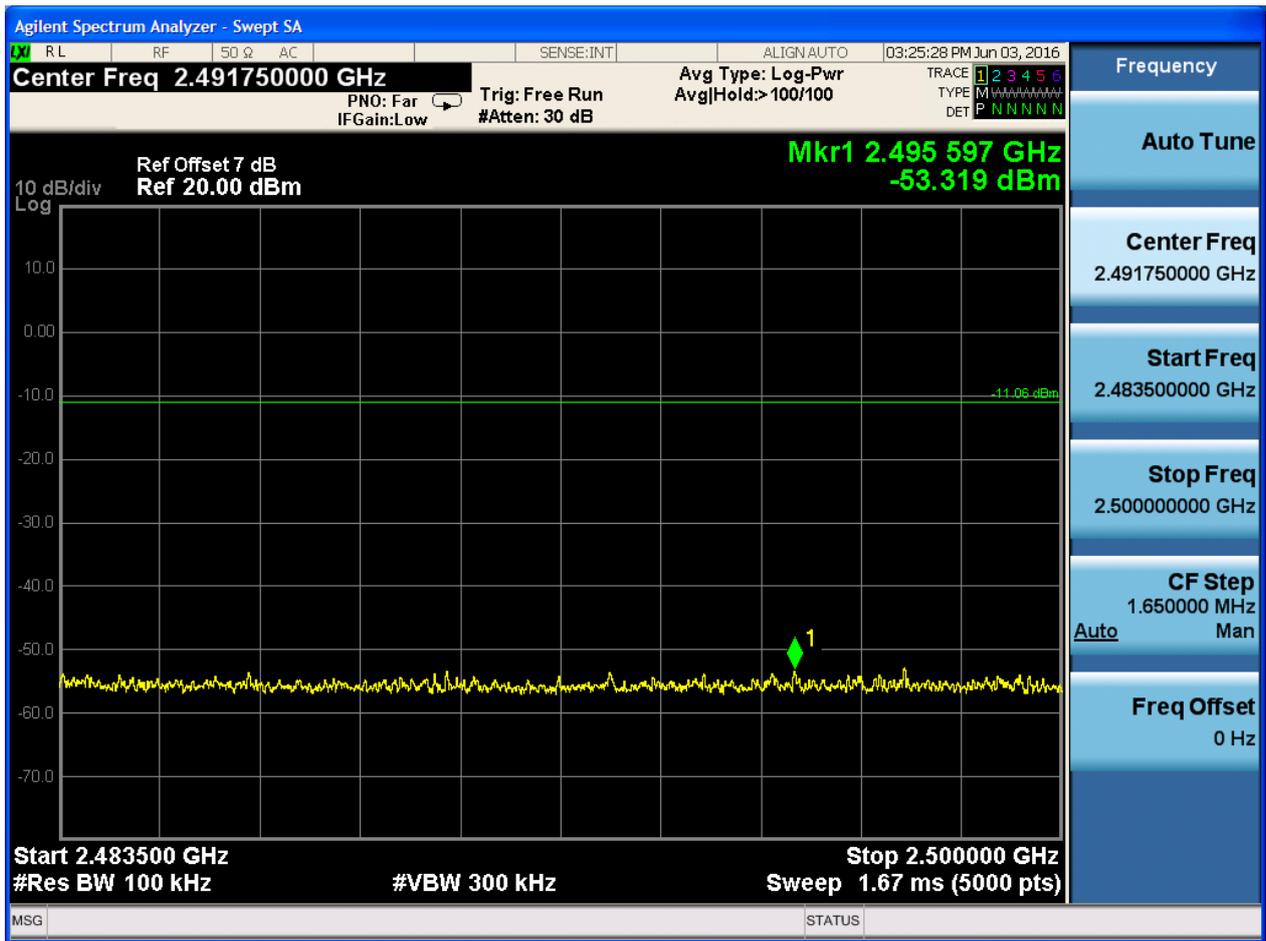
### 2.6.2 Puw















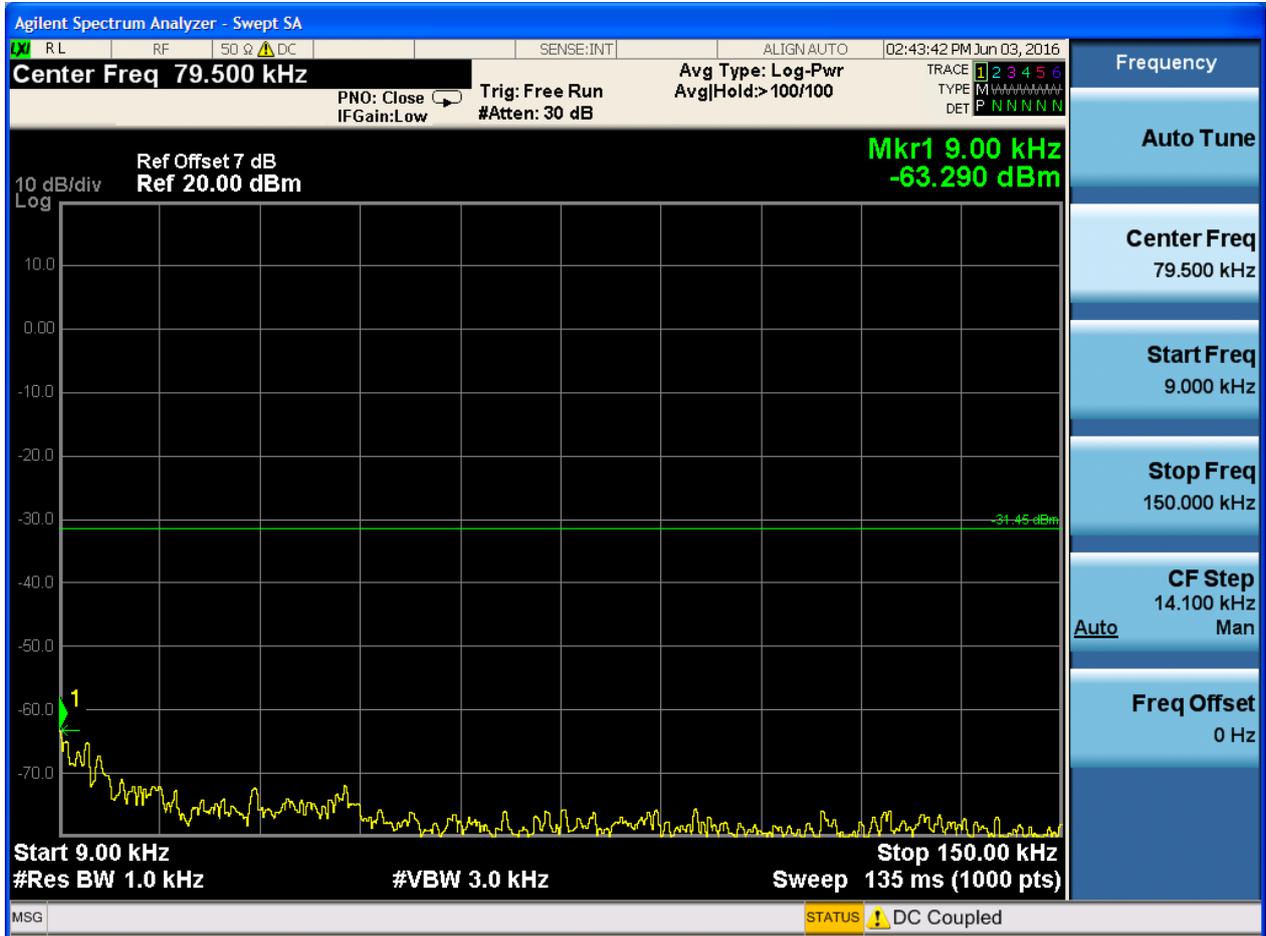
## 2.7 TM3\_3DH5\_Ch0

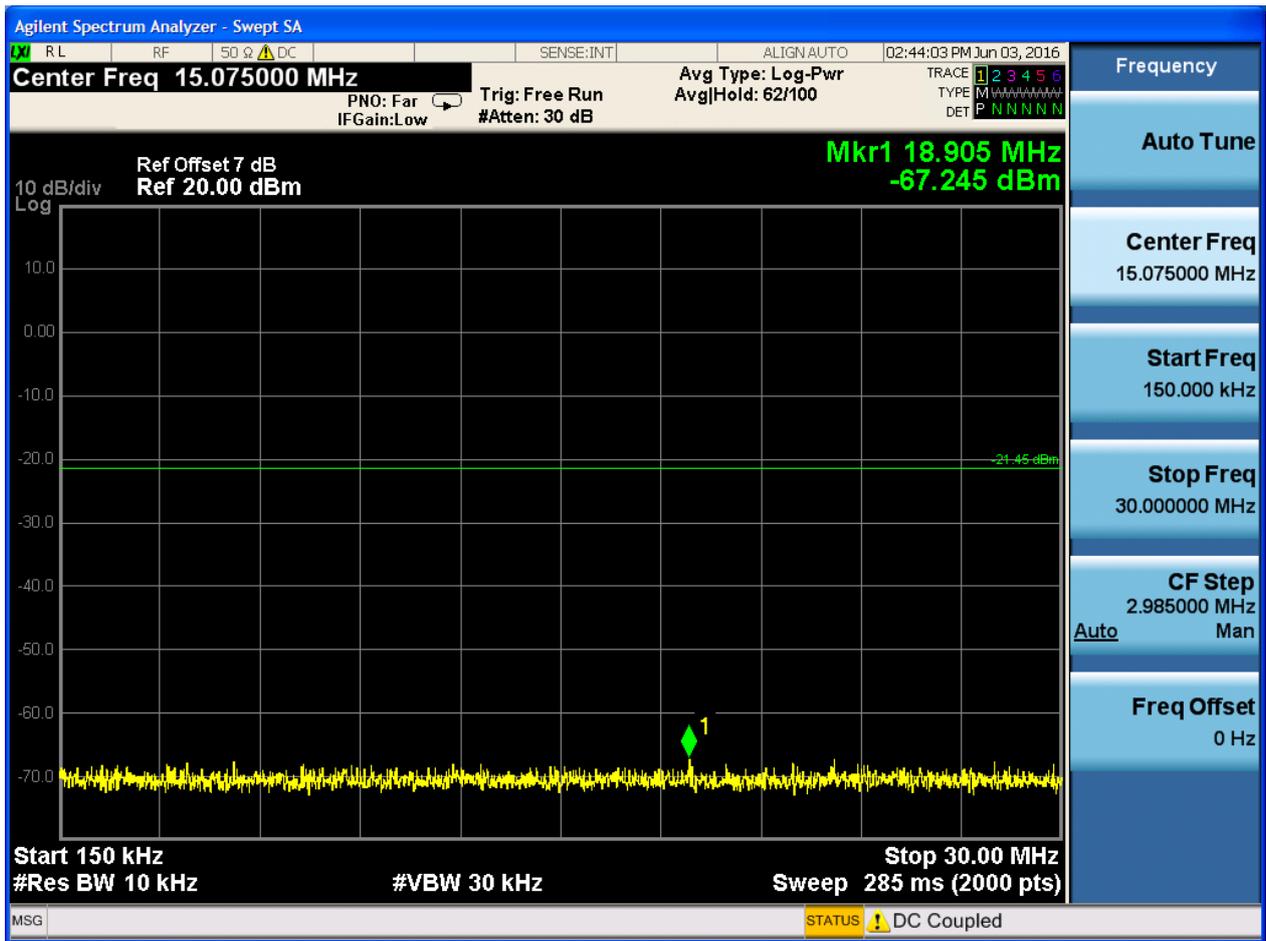
### 2.7.1 Pref

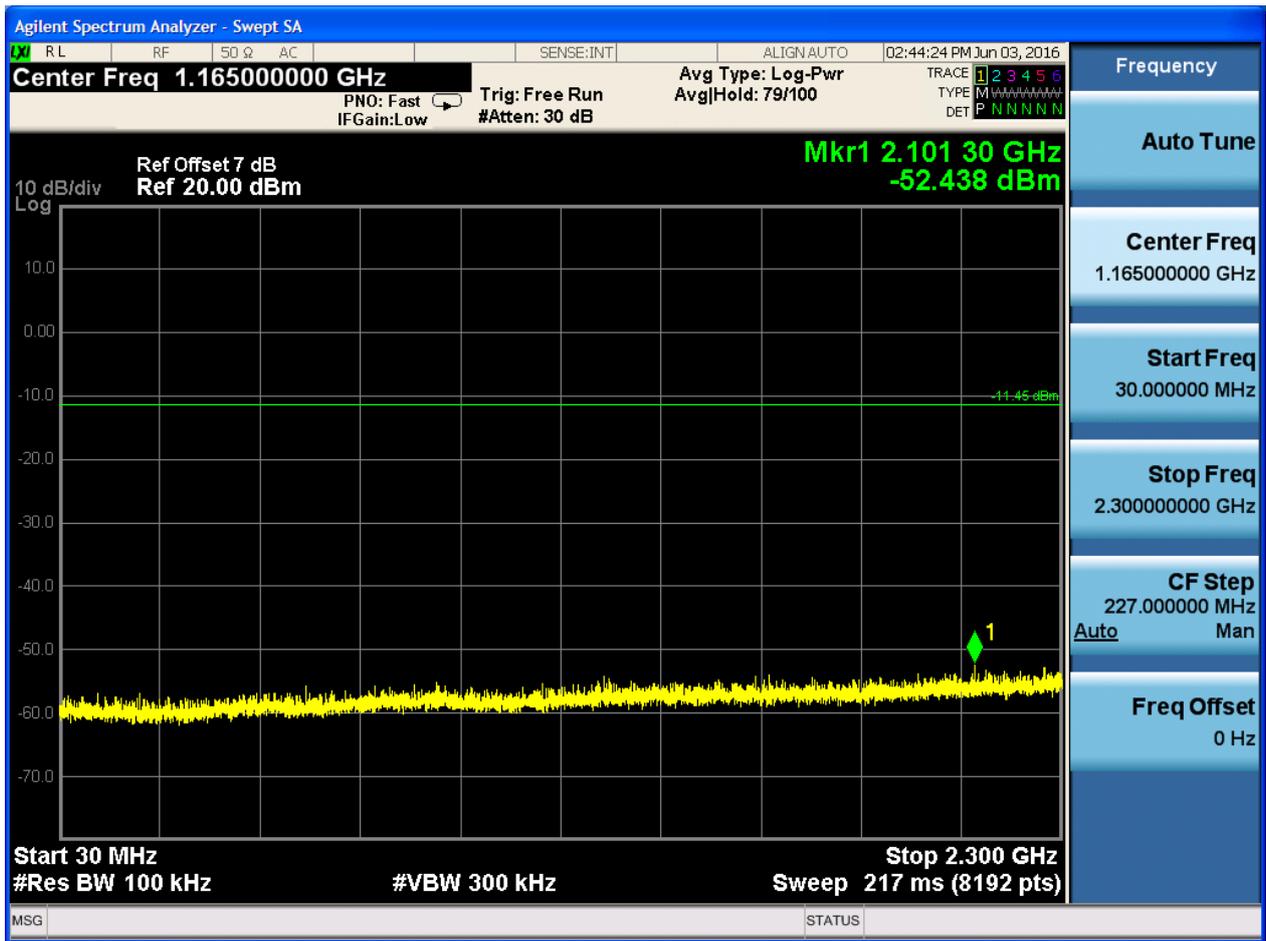




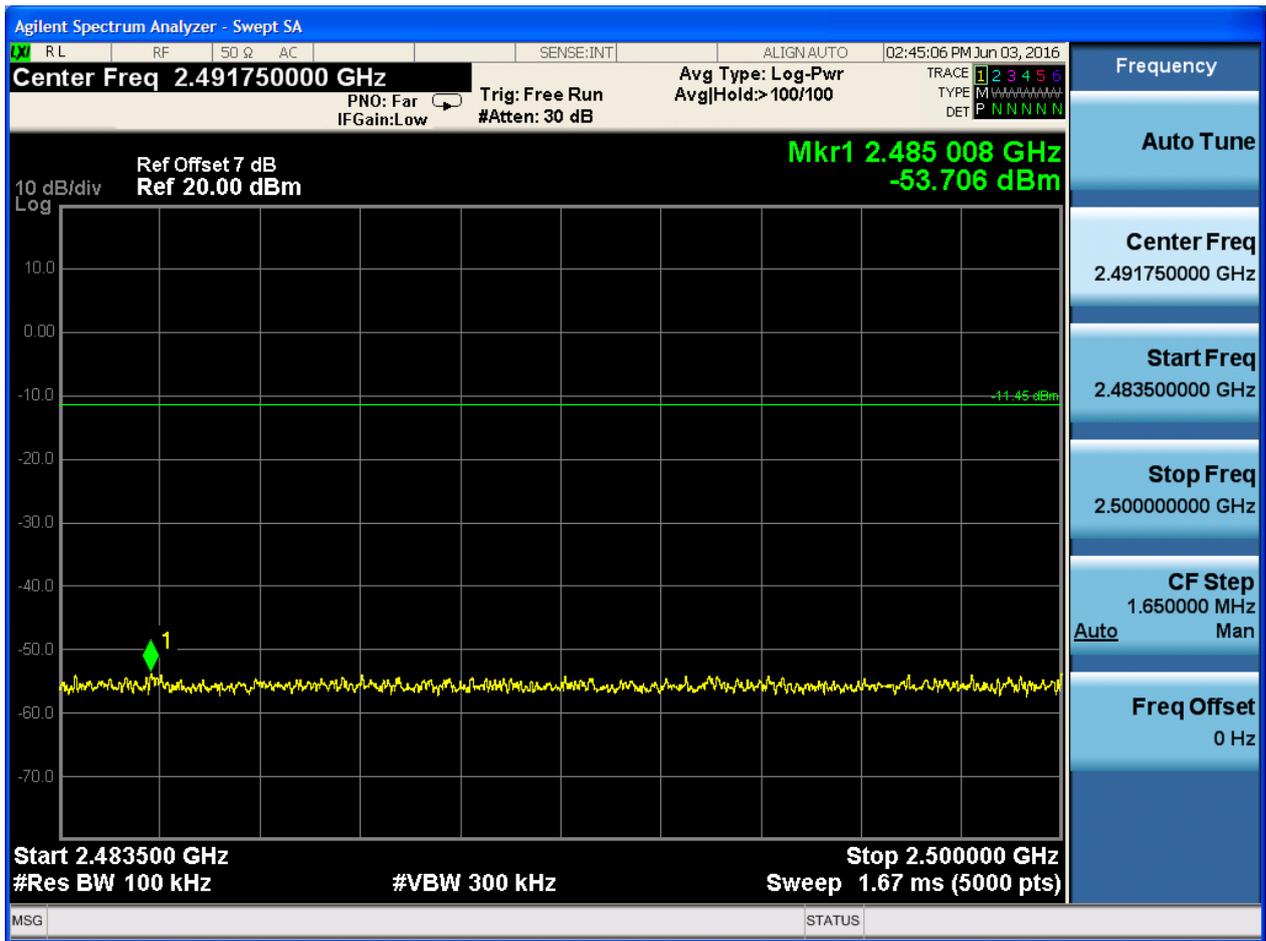
### 2.7.2 Puw















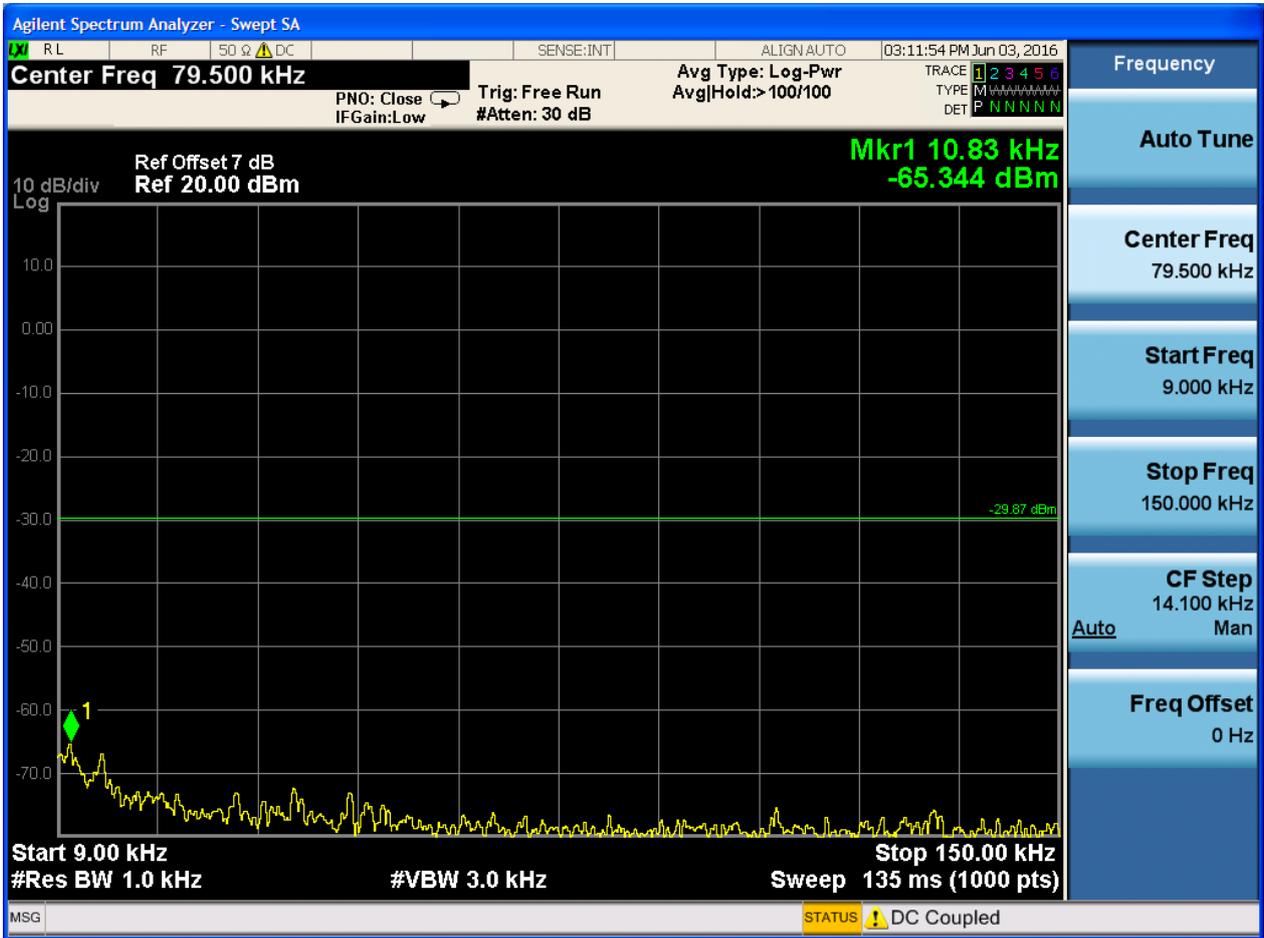
## 2.8 TM3\_3DH5\_Ch39

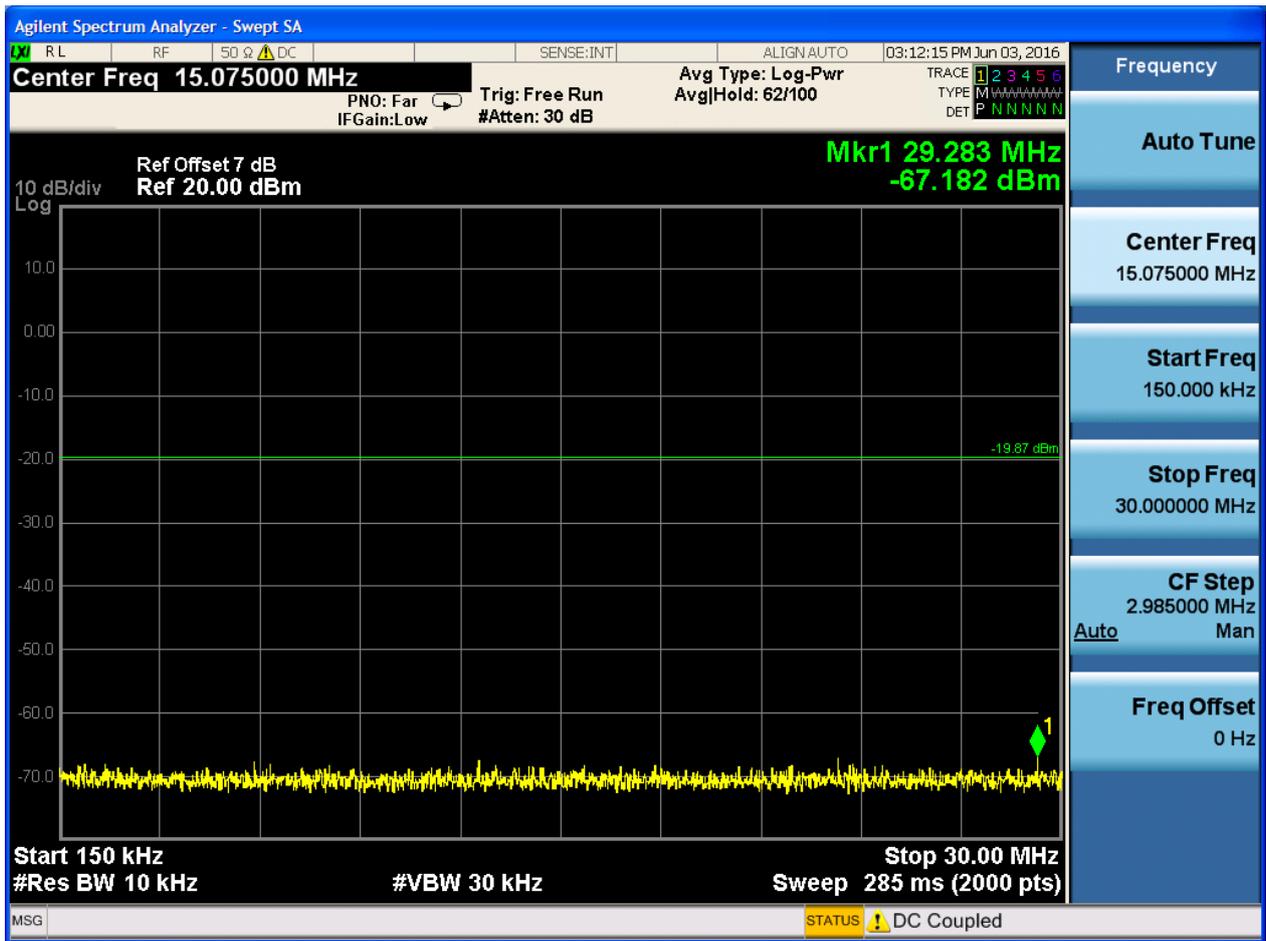
### 2.8.1 Pref

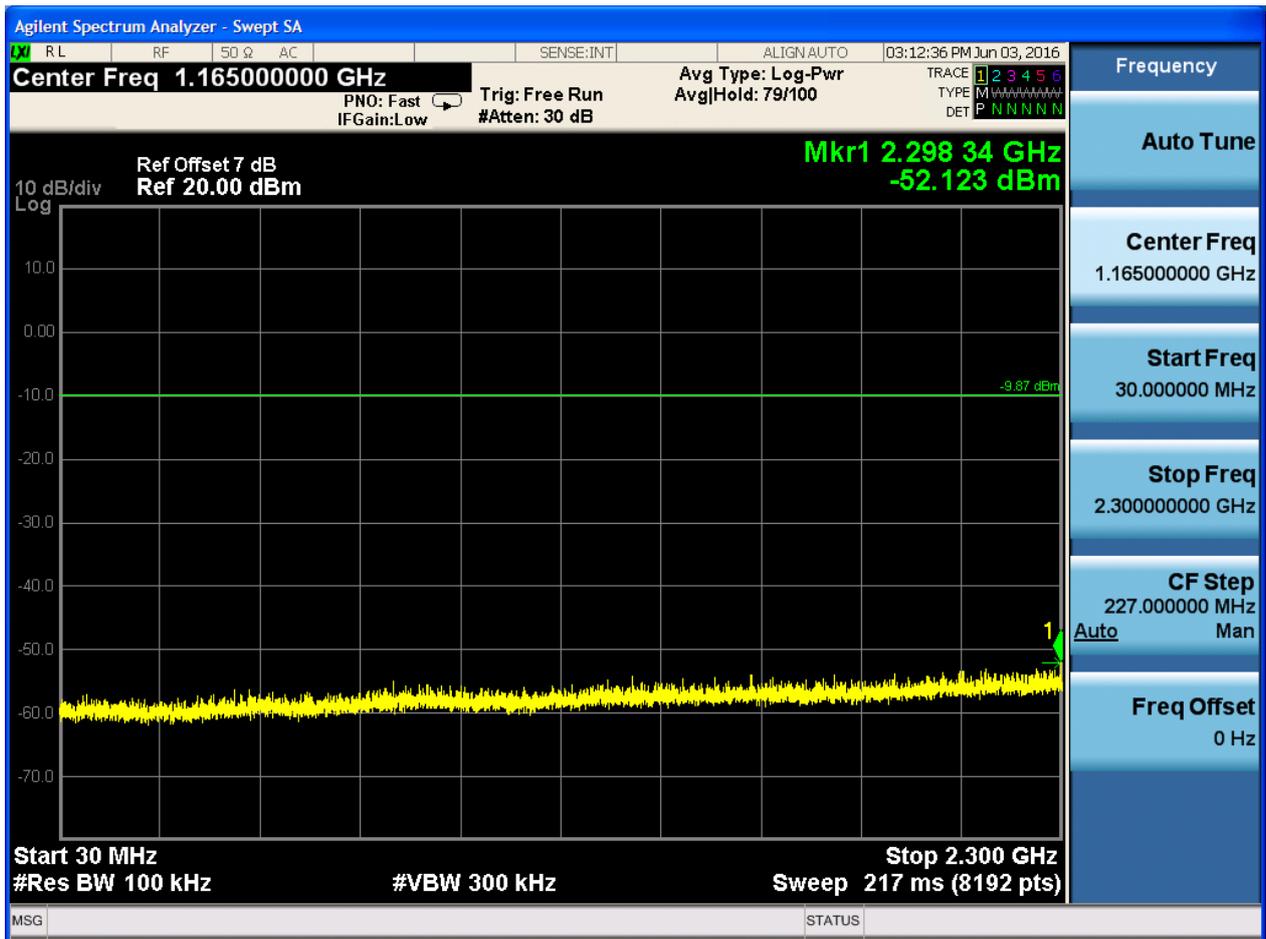


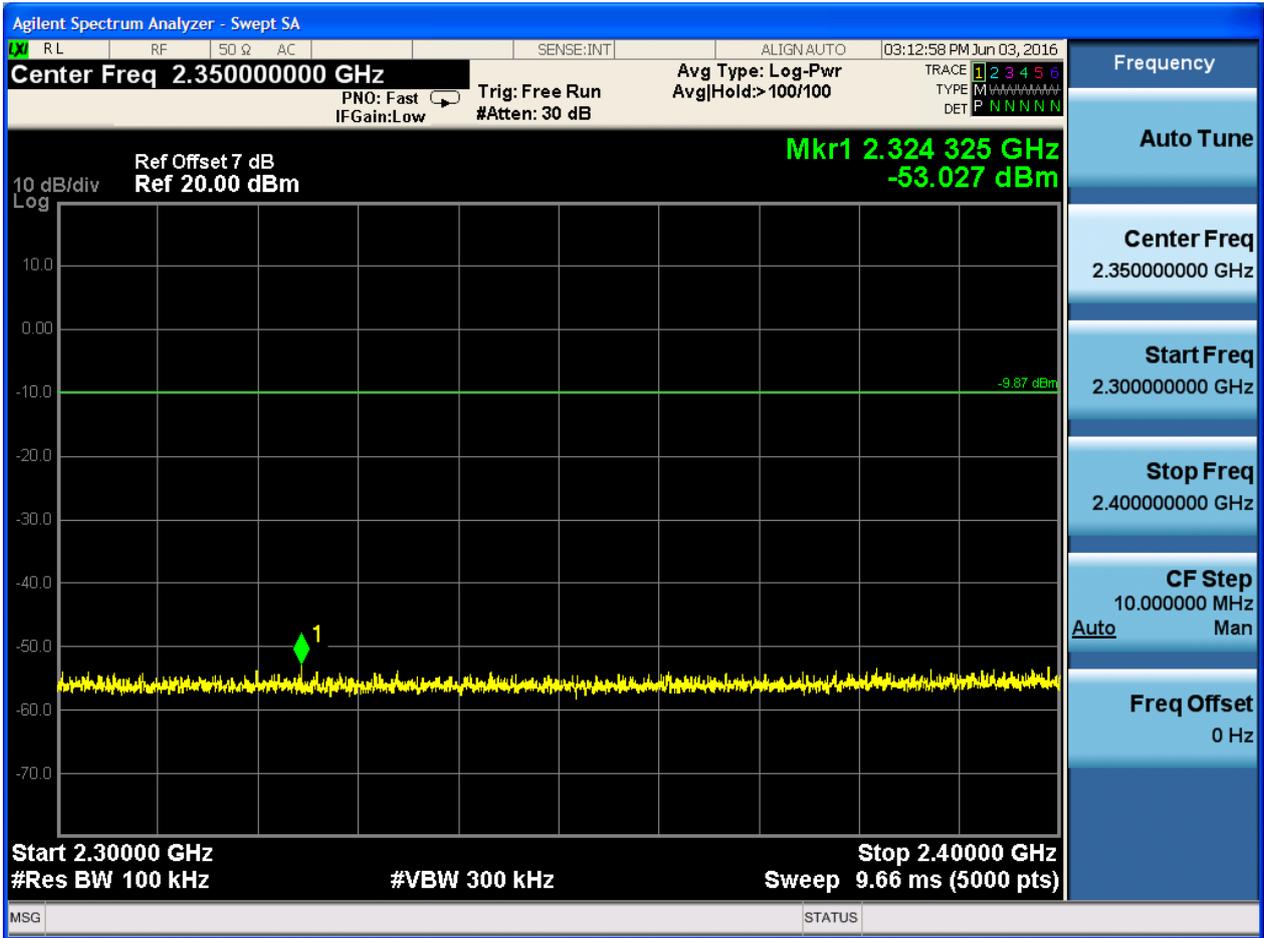


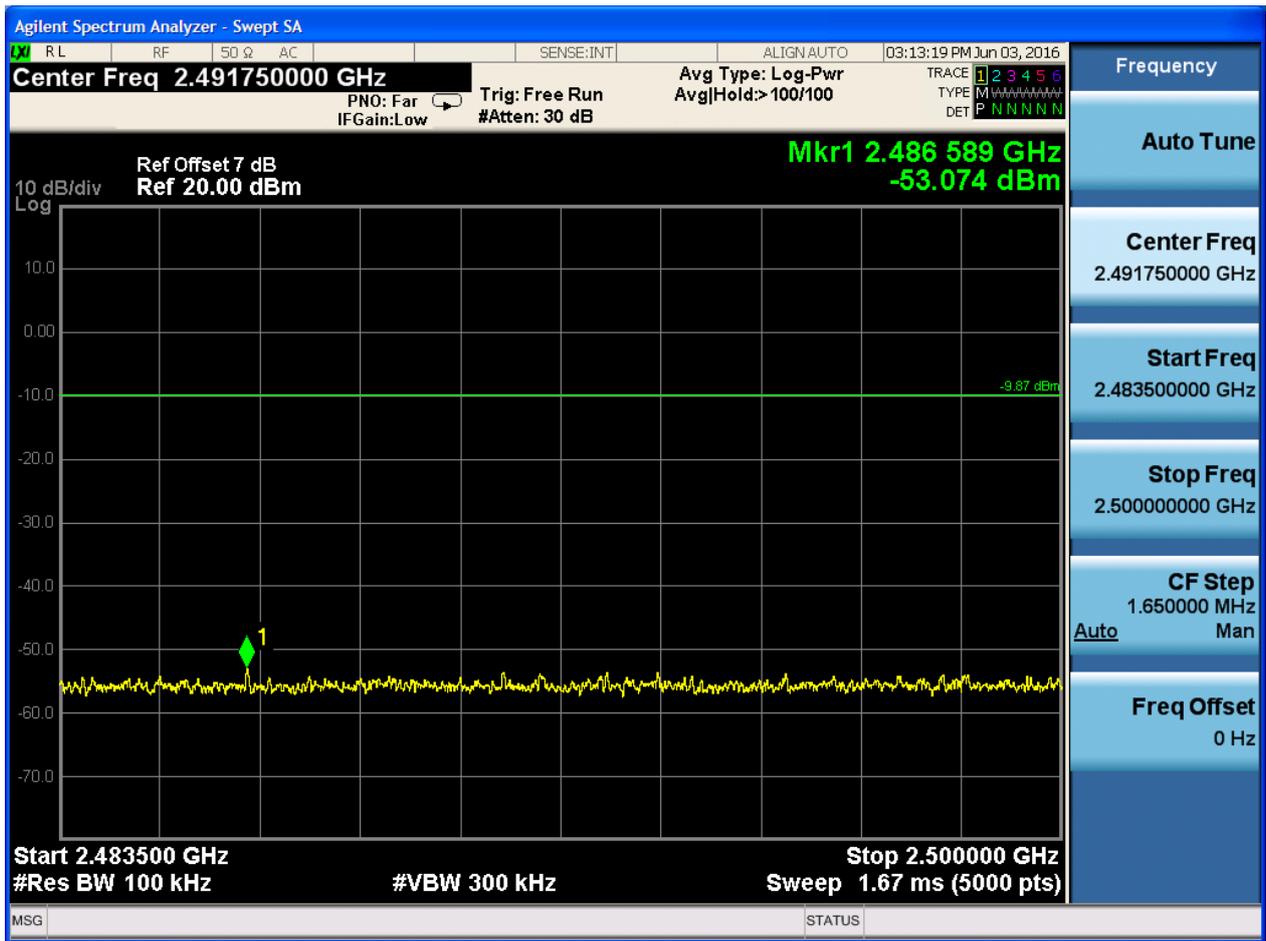
### 2.8.2 Puw















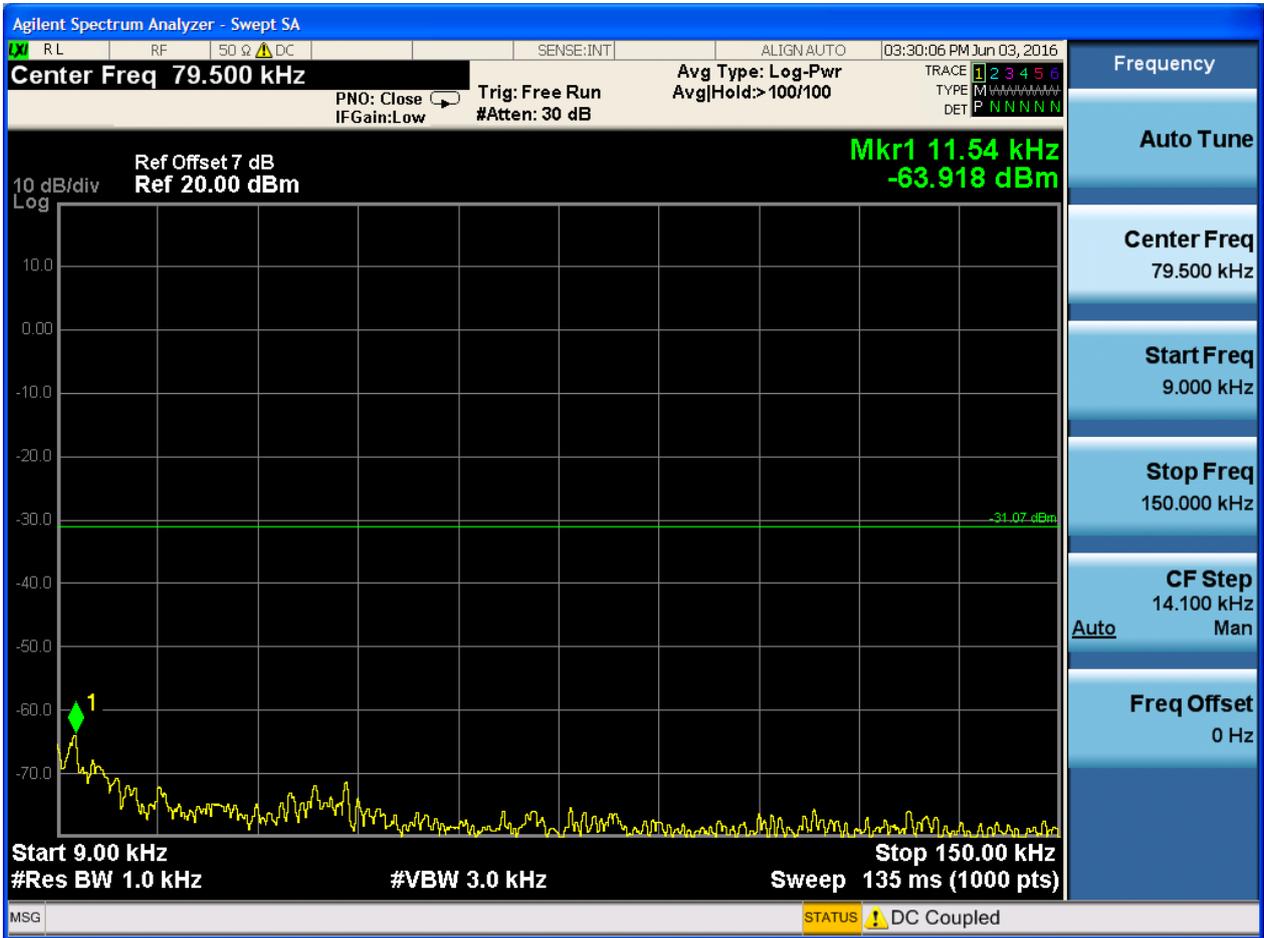
## 2.9 TM3\_3DH5\_Ch78

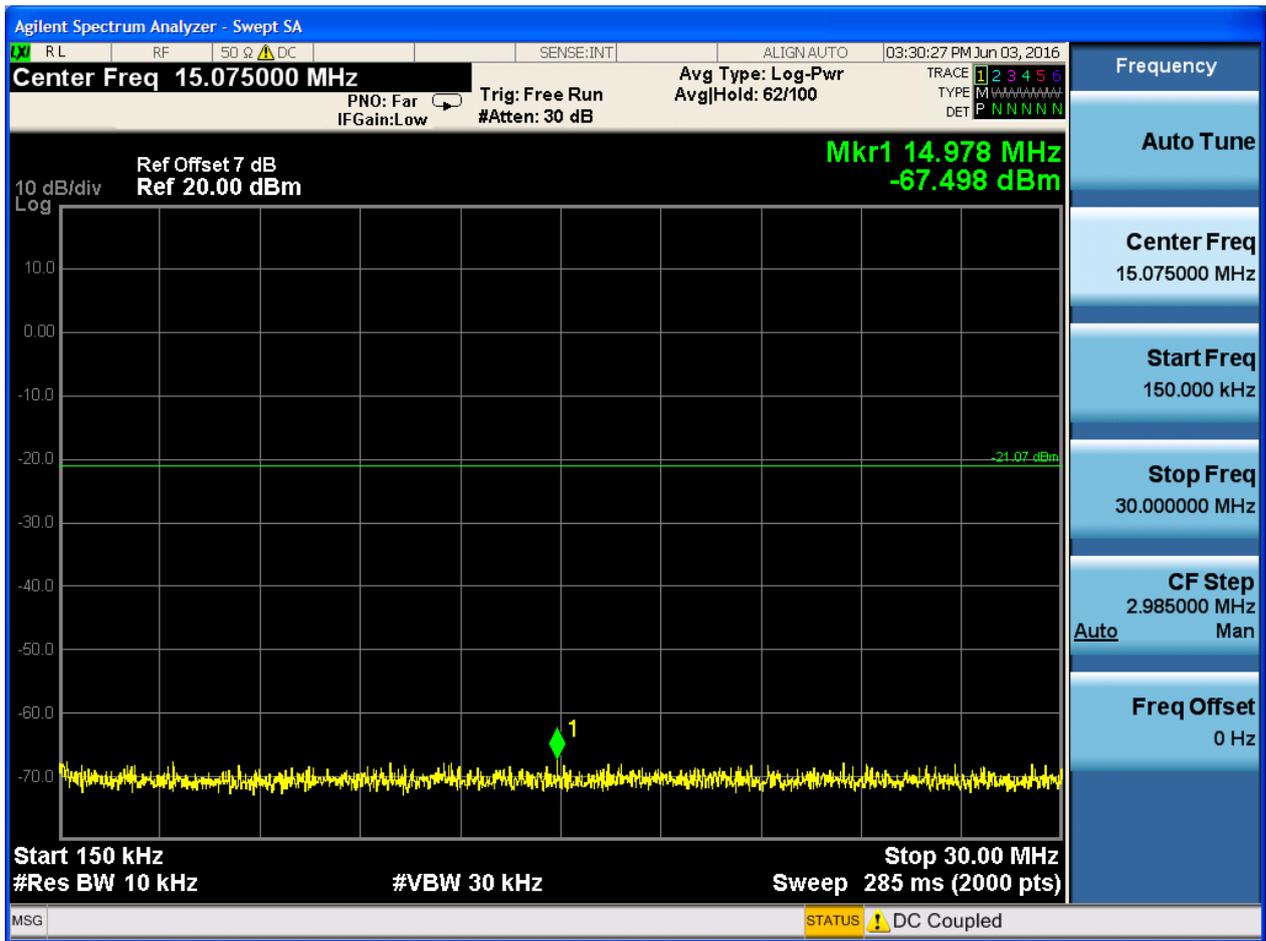
### 2.9.1 Pref

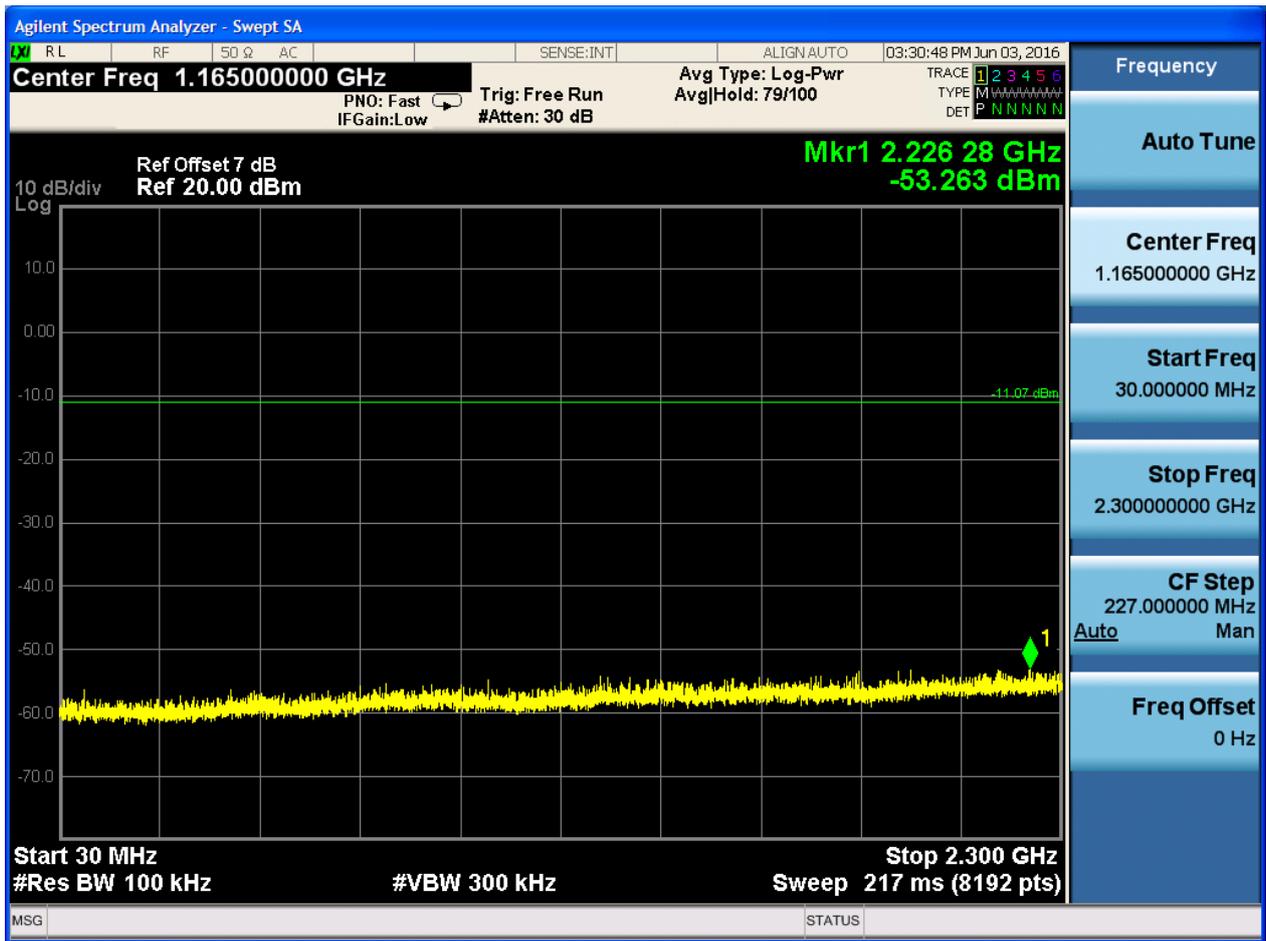


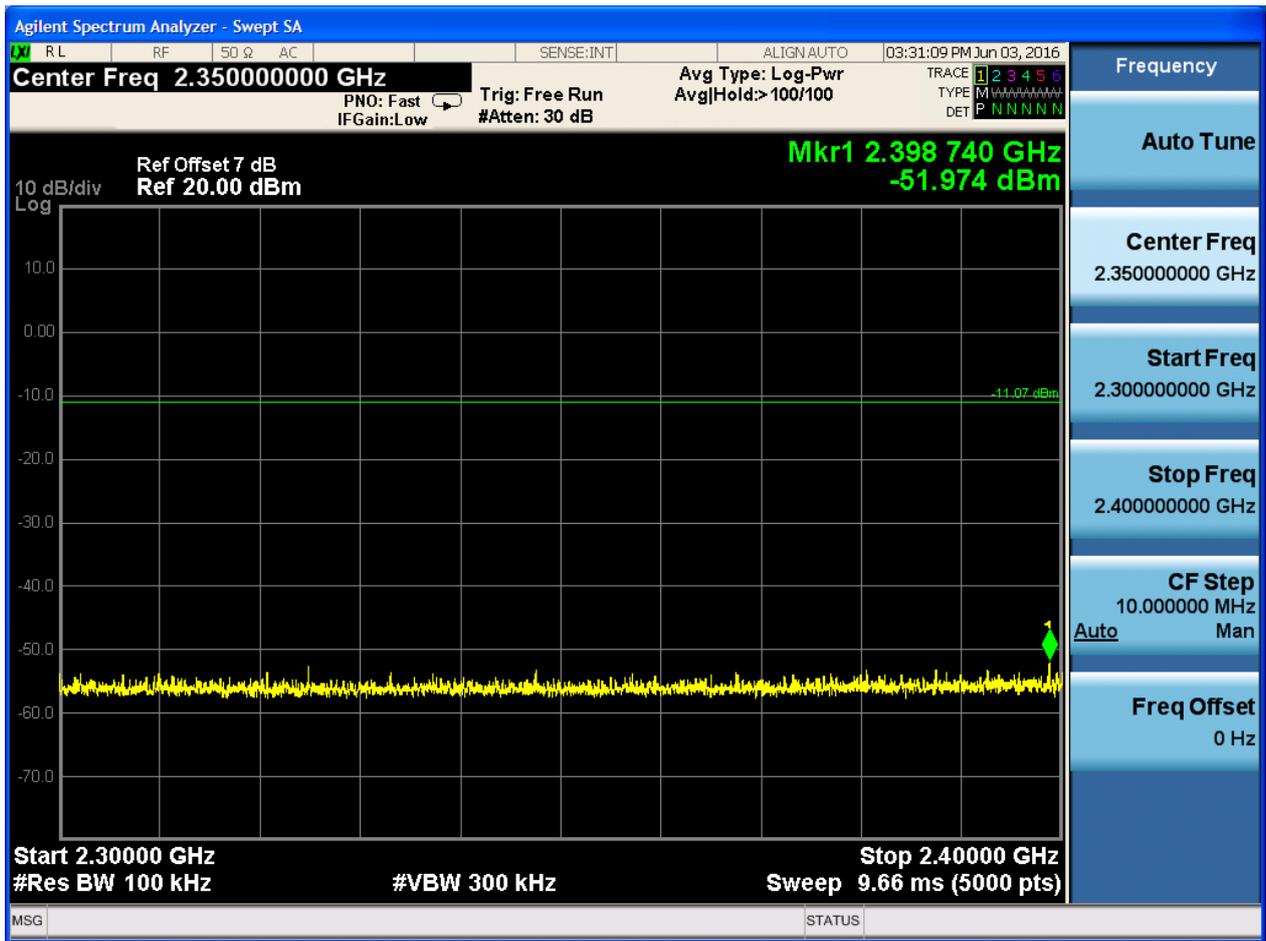


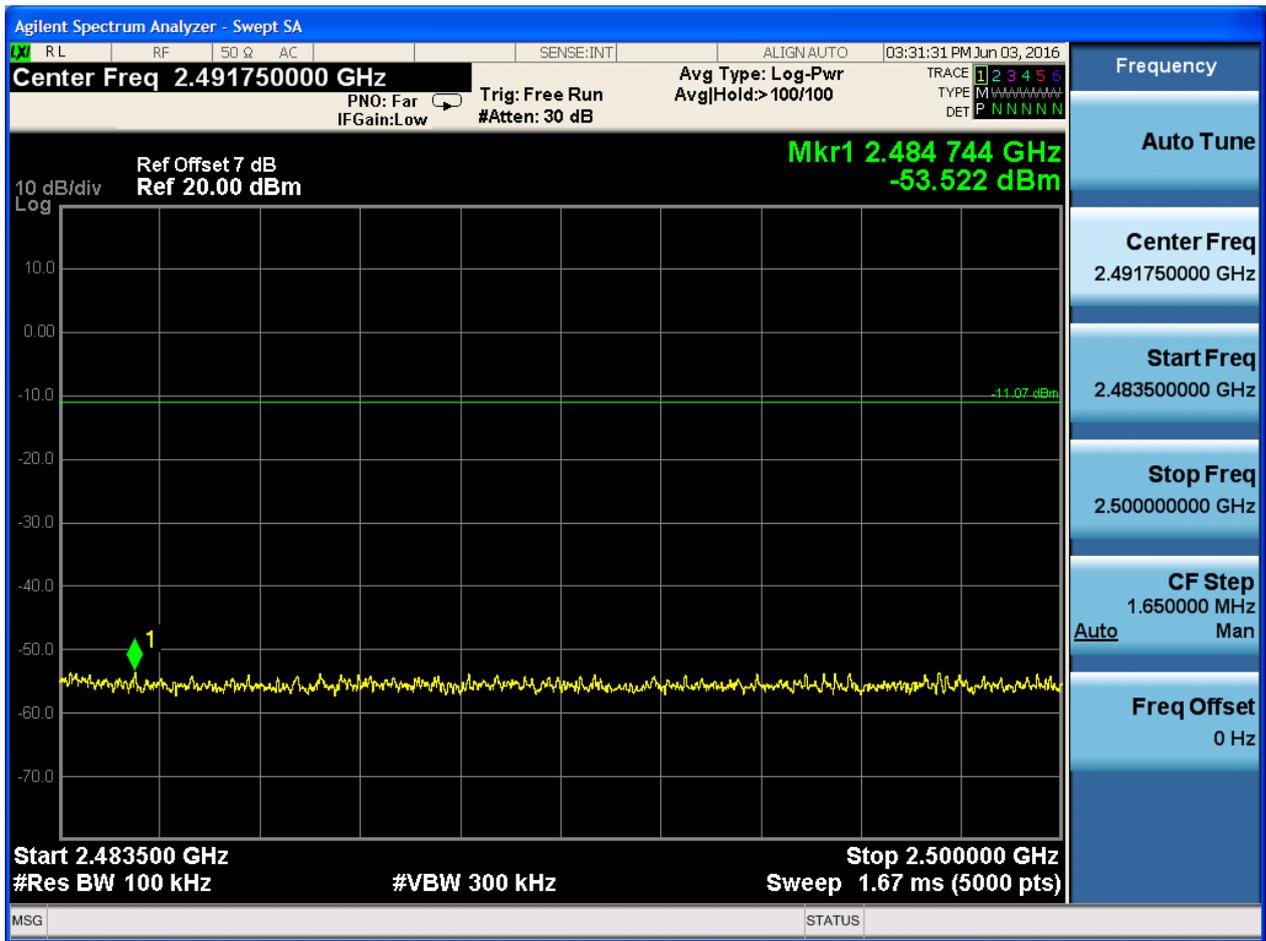
### 2.9.2 Puw















# Appendix H: Radiated Emissions in the Restricted Bands



## 1 Result Table

The whole testing range is from “30 MHz to 26.5 GHz (10th harmonics)” is divided into 4 parts according to the test site settings, which are:

- (Part 1): Test range of “9 KHz to 30 MHz”,
- (Part 2): Test range of “30 MHz to 1 GHz”,
- (Part 3): Test range of “18 GHz to 26.5 GHz”.
- (Part 4): Test range of “1 GHz to 3 GHz”, and
- (Part 5): Test range of “3 GHz to 18 GHz”.

In this Appendix, only the test results and plots under the worst case can be reported. In the result table, the “< Limit” denotes that “Not found obvious spikes or see marked spikes on plots and listed emissions records”.

Test Range	EUT Conf.	Emissions	Verdict
30 MHz to 1 GHz	TM1_DH5_Ch0 (Worst Conf.)	< Limit	Pass
1 GHz to 3 GHz	TM1_DH5_Ch0 (Worst Conf.)	< Limit	Pass
	TM1_DH5_Ch78 (Worst Conf.)	< Limit	Pass
3 GHz to 18 GHz	TM1_DH5_Ch0 (Worse Conf.)	< Limit	Pass
18 GHz to 26.5 GHz	TM1_DH5_Ch0 (Worst Conf.)	< Limit	Pass

## 2 Result Plot

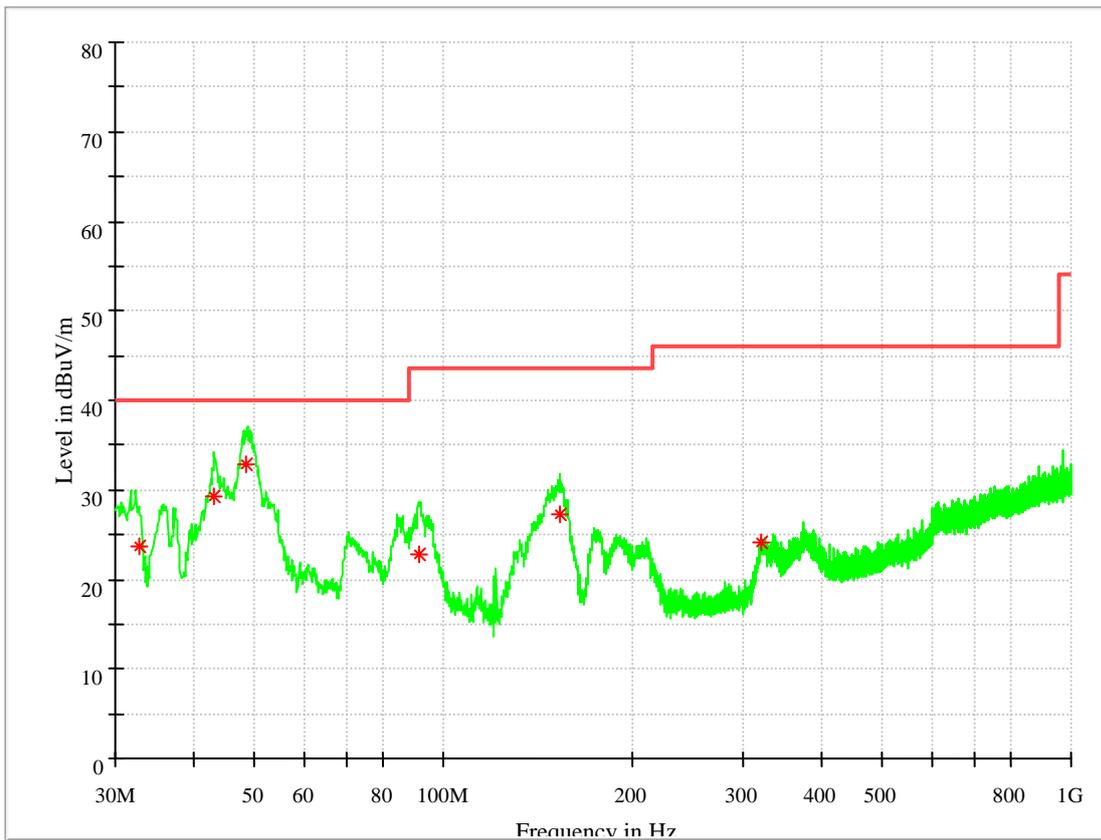
### Part 1: Testing Range of “9 kHz to 30MHz”

NOTE1: No peak found in the Test Range of “9 kHz to 30MHz”

### Part 2: Testing Range of “30 MHz to 1 GHz”

Note 1: The test results and plot for testing range of “30 MHz to 1 GHz” showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.

Note 2: The emissions in this range are mainly from the Platform Device (Notepad PC and its ancillary components).





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Frequency	Level	Limit	Margin	Height	Pol	Azimuth	Transd.
32.802050	23.73	40.00	-16.27	100.0	V	226.0	14.9
43.164150	29.18	40.00	-10.82	100.0	V	4.0	15.3
48.570950	32.80	40.00	-7.20	100.0	V	23.0	15.2
91.606700	22.79	43.50	-20.71	200.0	V	97.0	12.5
153.280600	27.25	43.50	-16.25	100.0	V	42.0	10.3
321.664400	24.06	46.00	-21.94	129.0	H	168.0	16.3

### Part 3: Testing Range of “18 GHz to 26.5 GHz”

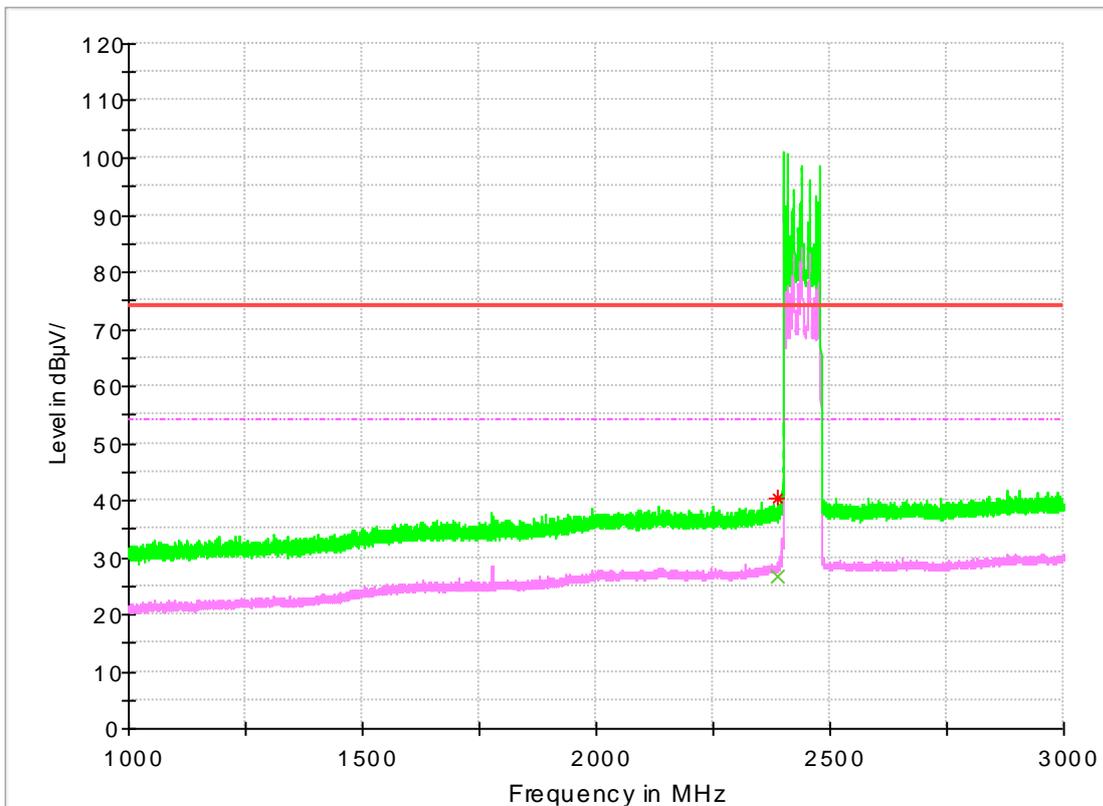
NOTE1: No peak found in the Test Range of “18 GHz to 26.5GHz”

**Part 4: Testing Range of “1GHz to 3GHz”**

- Note 1: The testing range of “1 GHz to 3 GHz” is for checking radiated emissions located in restricted bands near the EUT operating bands.
- Note 2: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dB $\mu$ V/m) and Average Limit (54 dB $\mu$ V/m).
- Note 3: The peak spike exceeds the limit line is EUT’s operating frequency.

**Channel 0**

Full Spectrum



**MEASUREMENT RESULT: AV Detector**

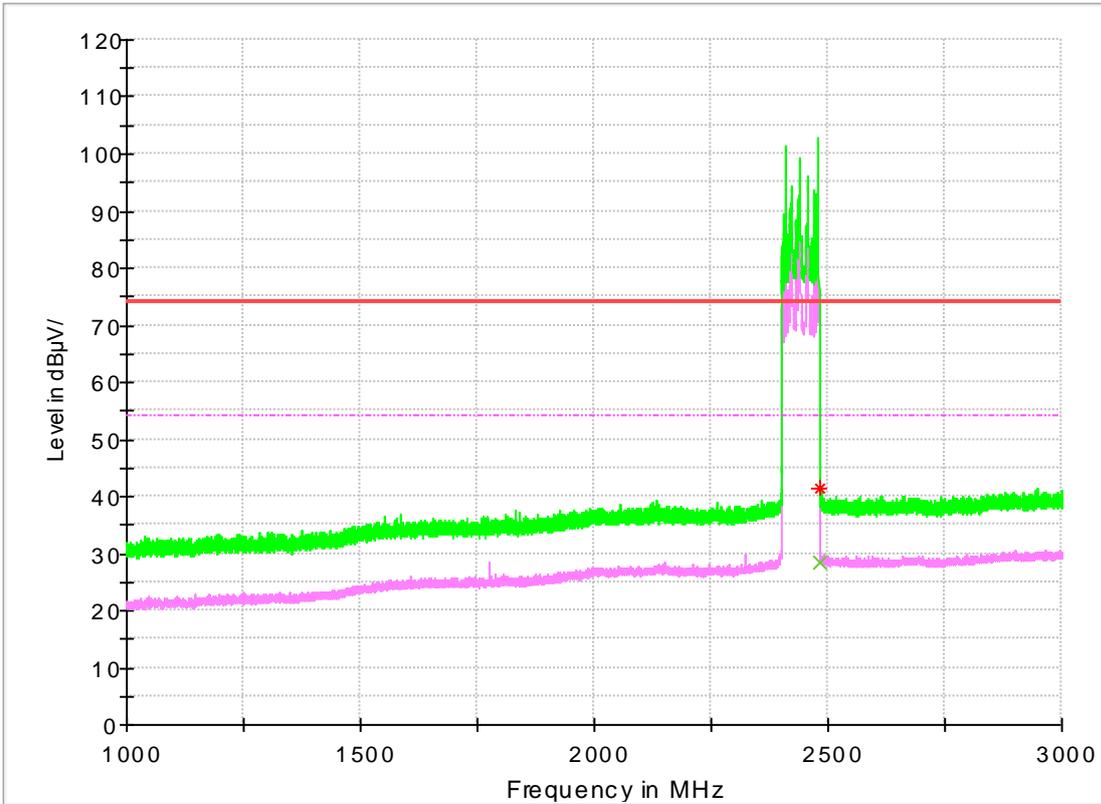
Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Transd. (dB)
2390.000000	26.72	54.00	-27.28	158.0	V	37.0	-7.6

**MEASUREMENT RESULT: PK Detector**

Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Transd. (dB)
2390.000000	40.48	74.00	-33.52	119.0	H	34.0	-7.6

**Channel 78**

Full Spectrum



**MEASUREMENT RESULT: AV Detector**

Frequency (MHz)	Level (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Transd. (dB)
2483.500000	28.50	54.00	-25.50	160.0	H	209.0	-5.5

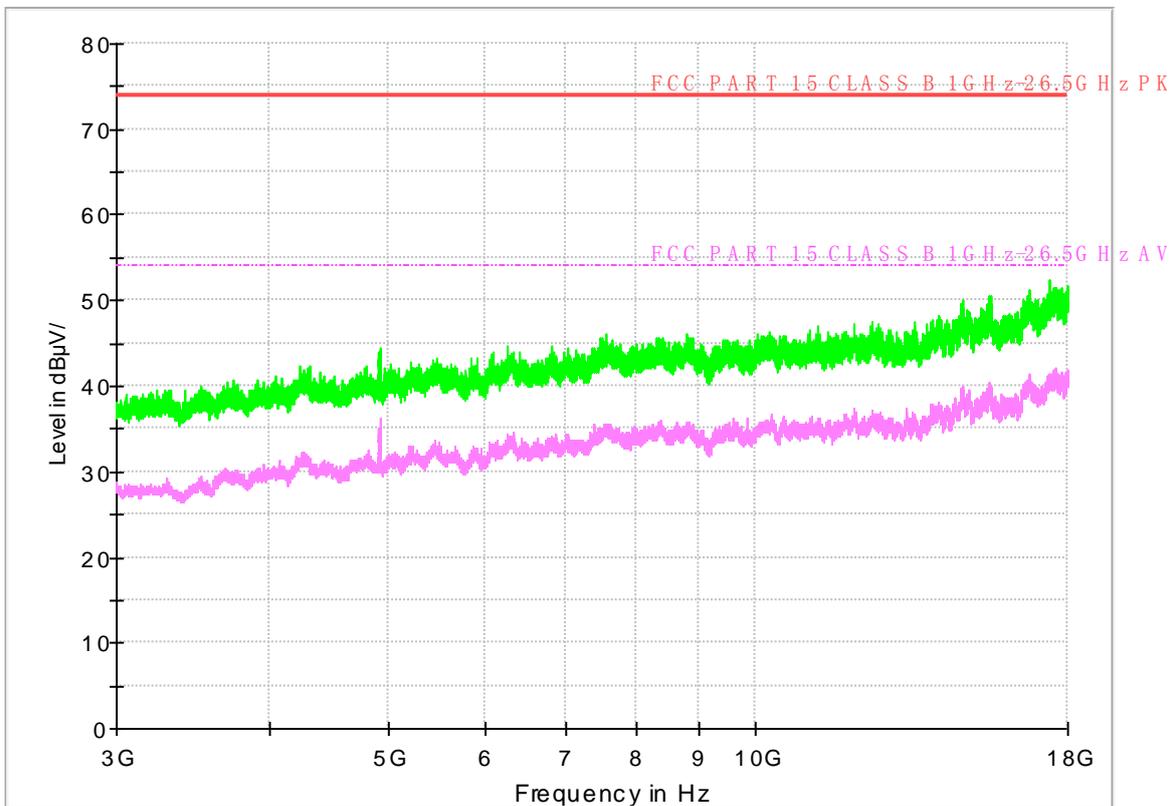
**MEASUREMENT RESULT: PK Detector**

Frequency (MHz)	Level (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Transd. (dB)
2483.500000	41.49	74.00	-32.51	130.0	V	32.0	-5.9

## Part 5: Testing Range of “3 GHz to 18 GHz”

- Note 1: The test results and plot for testing range of “3 GHz to 18 GHz” showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.
- Note 2: The testing range of “3 GHz to 18 GHz” is for checking radiated emissions located in restricted bands faraway from the EUT operating bands.
- Note 3: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dB $\mu$ V/m) and Average Limit (54 dB $\mu$ V/m).

Full Spectrum





# Appendix I: AC Power Line Conducted Emissions



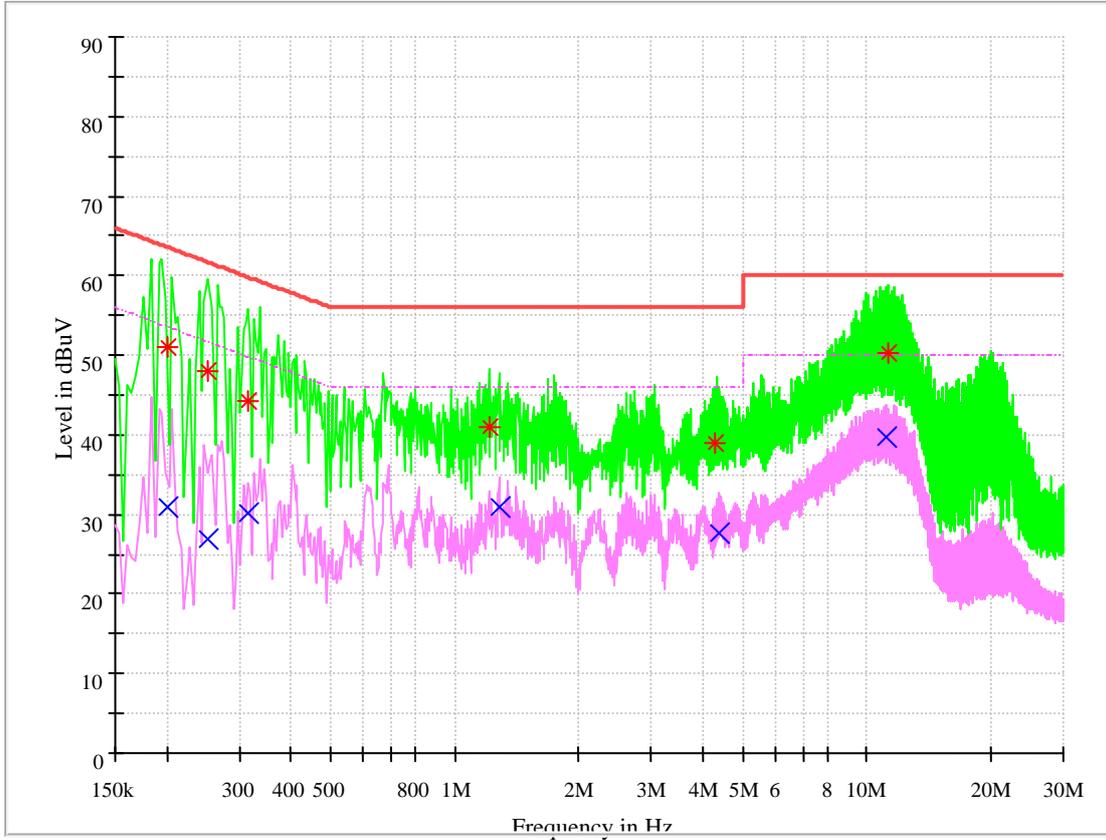
### 3 Result Table

In this Appendix, only the test results and plots under the worst case can be reported.

EUT Conf.	Maximum Emissions	Verdict
TM1_DH5_Ch39	Not found obvious spikes or see marked spikes on plots and listed emissions records.	Pass

4 Result Plot

Channel 39



MEASUREMENT RESULT: AV Detector

Frequency (MHz)	Level (dBμ V)	Limit (dBμ V)	Margin (dB)	Line	Transd. (dB)	PE
0.201722	30.91	53.54	-22.63	N	9.7	FLO
0.251278	26.83	51.72	-24.88	N	9.7	FLO
0.315738	30.23	49.82	-19.59	L1	9.7	FLO
1.286043	30.80	46.00	-15.20	N	9.7	FLO
4.368951	27.67	46.00	-18.33	N	9.8	FLO
11.134200	39.76	50.00	-10.24	N	10.0	FLO

**MEASUREMENT RESULT: PK Detector**

Frequency (MHz)	Level (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Line	Transd. (dB)	PE
0.201640	50.98	63.54	-12.56	N	9.7	FLO
0.251817	48.12	61.70	-13.57	N	9.7	FLO
0.314496	44.27	59.85	-15.58	N	9.7	FLO
1.212260	41.10	56.00	-14.90	N	9.7	FLO
4.288324	39.04	56.00	-16.96	N	9.8	FLO
11.302469	50.19	60.00	-9.81	N	10.0	FLO

END