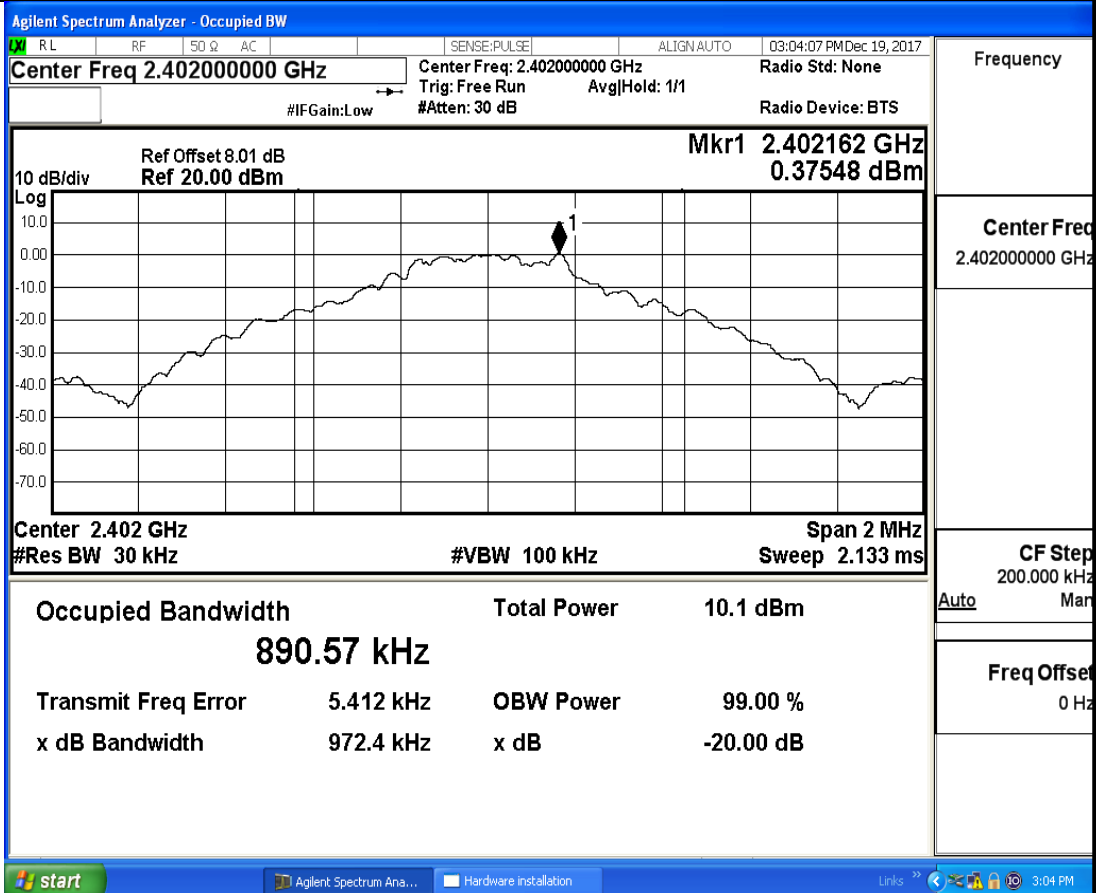


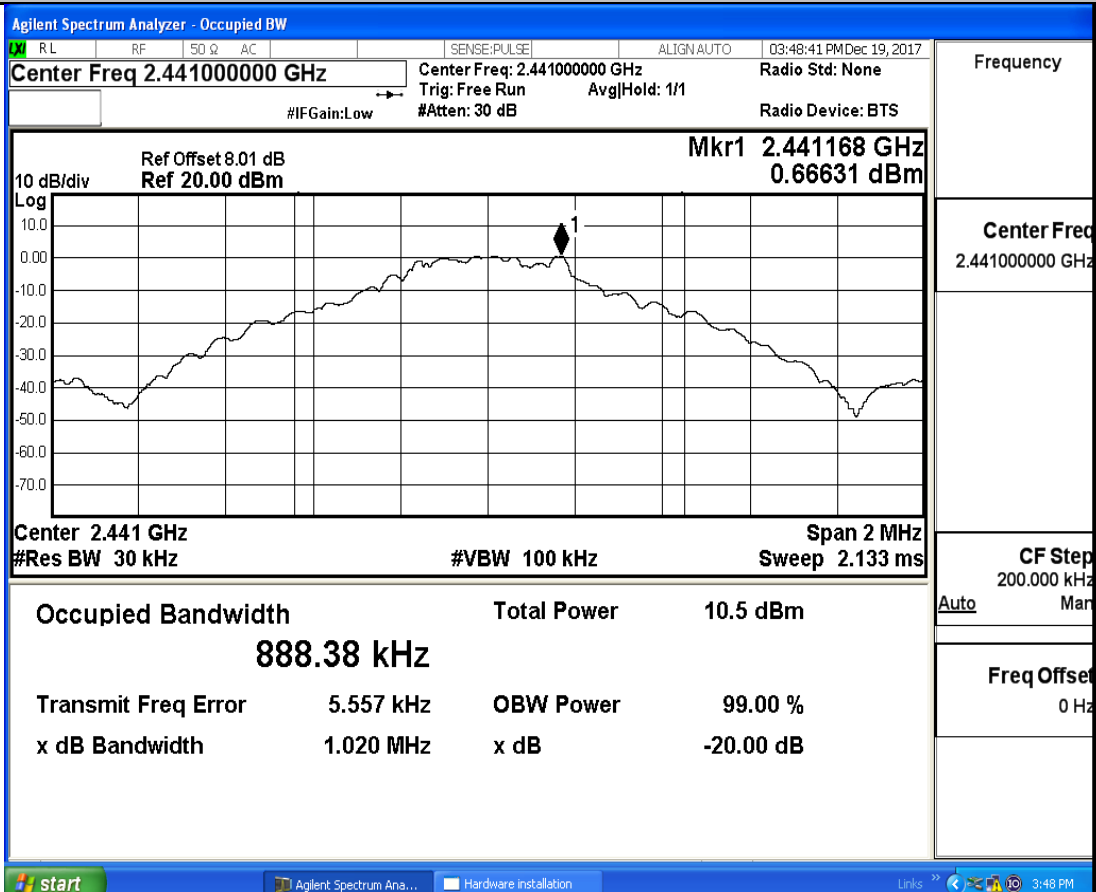
1.20 dB Bandwidth

Test Mode	Test Channel	EBW[MHz]	Limit[MHz]	Verdict
DH5	2402	0.9724	---	PASS
DH5	2441	1.020	---	PASS
DH5	2480	0.9693	---	PASS
2DH5	2402	1.289	---	PASS
2DH5	2441	1.285	---	PASS
2DH5	2480	1.288	---	PASS

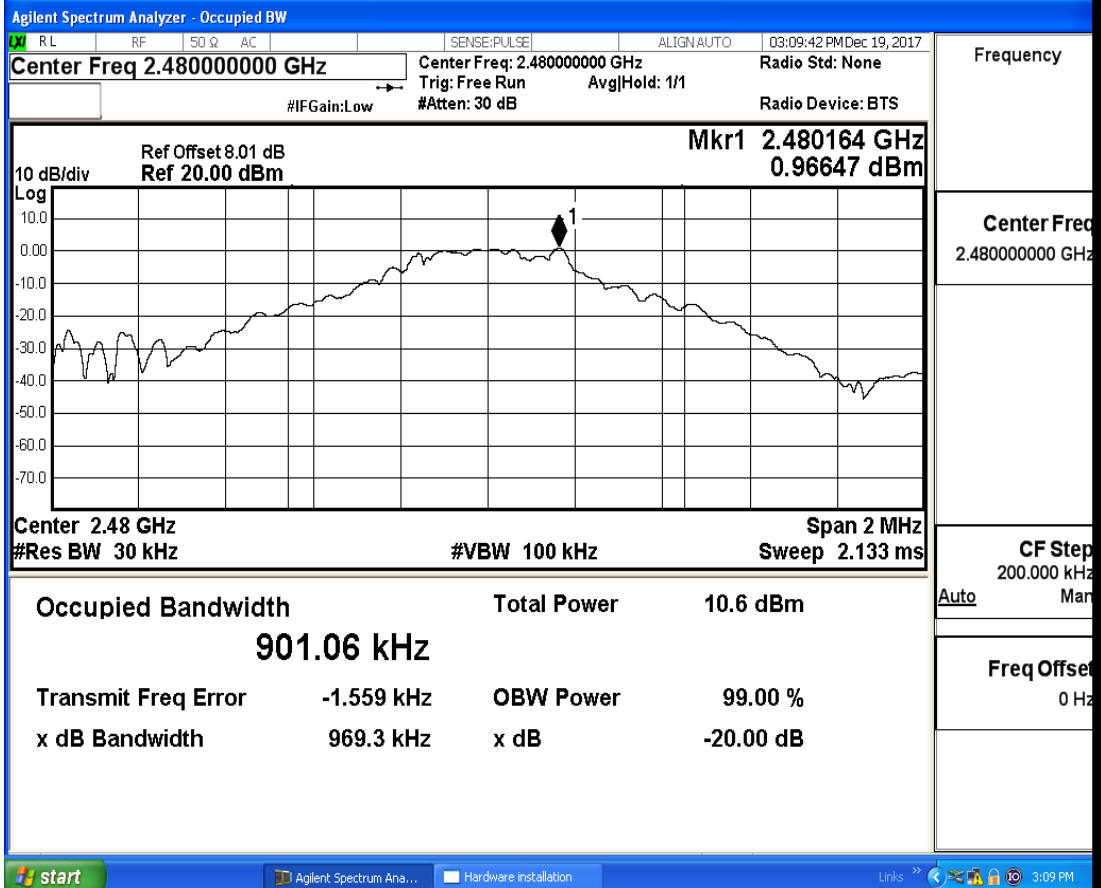
20 dB Bandwidth_DH5_2402



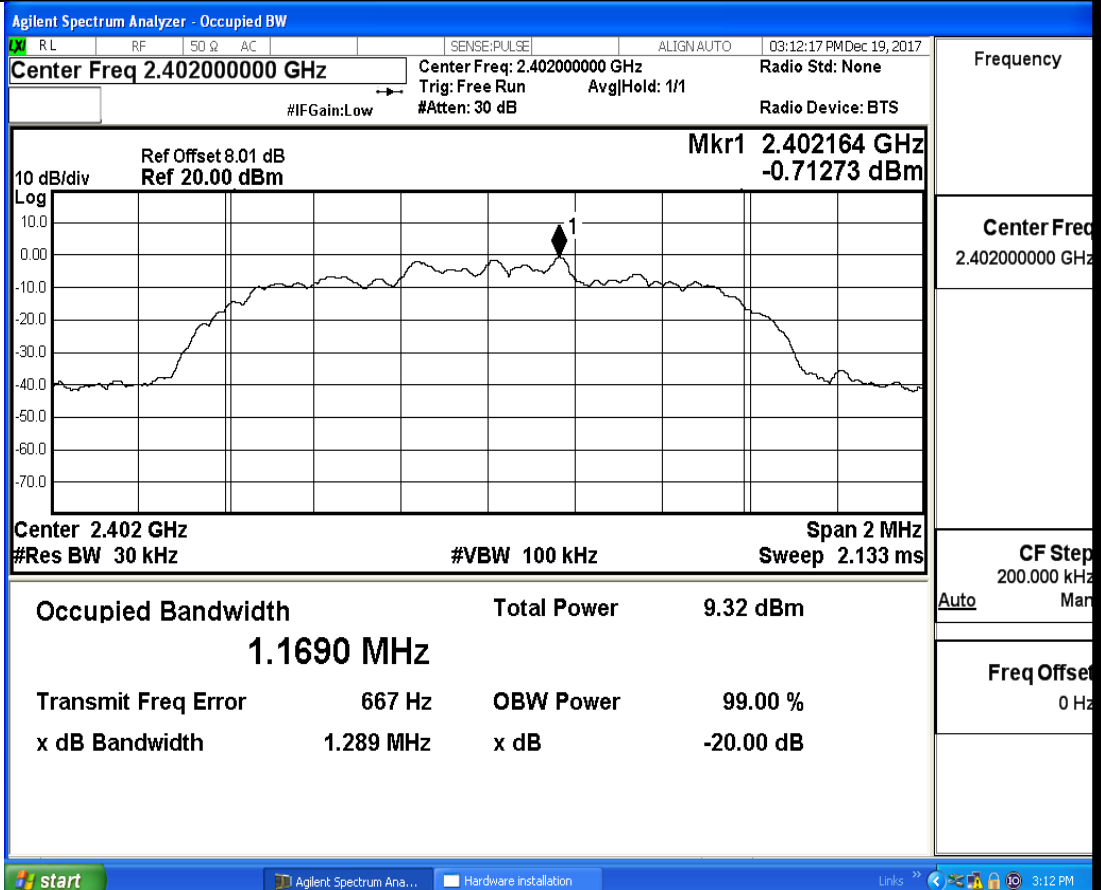
20 dB Bandwidth_DH5_2441



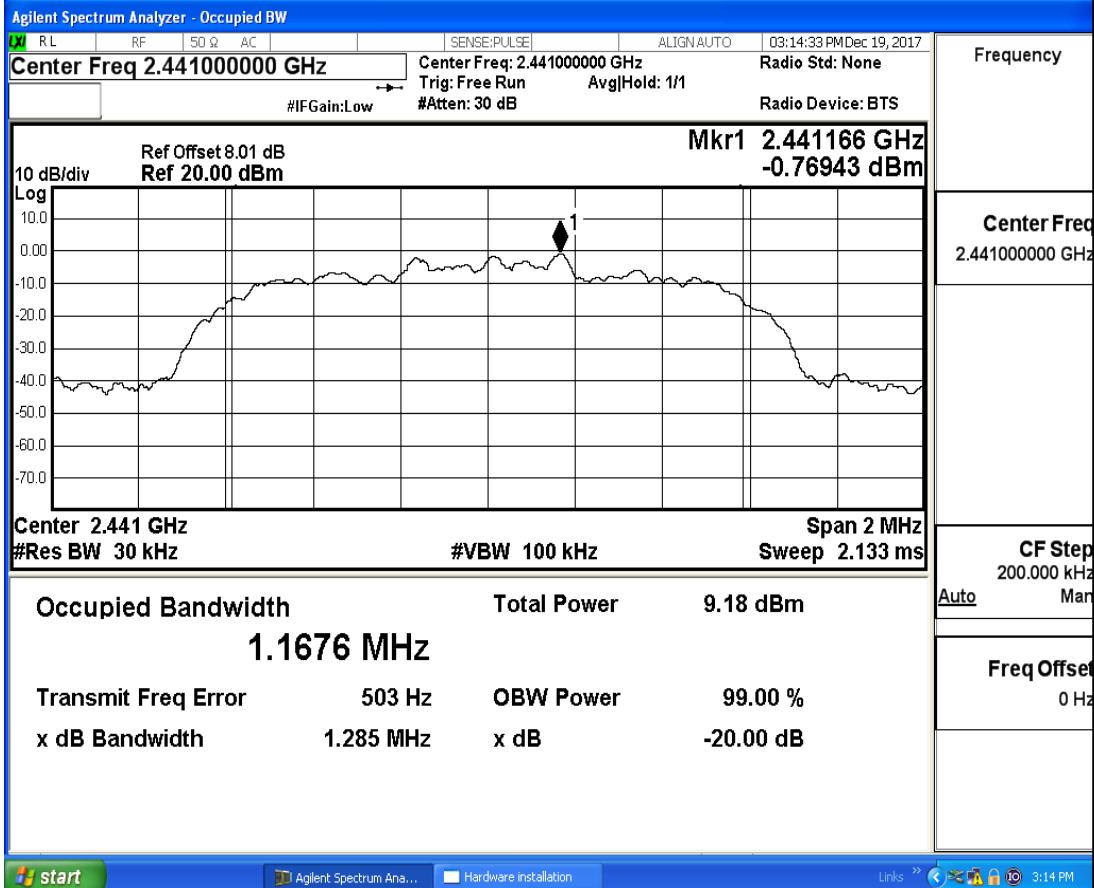
20 dB Bandwidth_DH5_2480



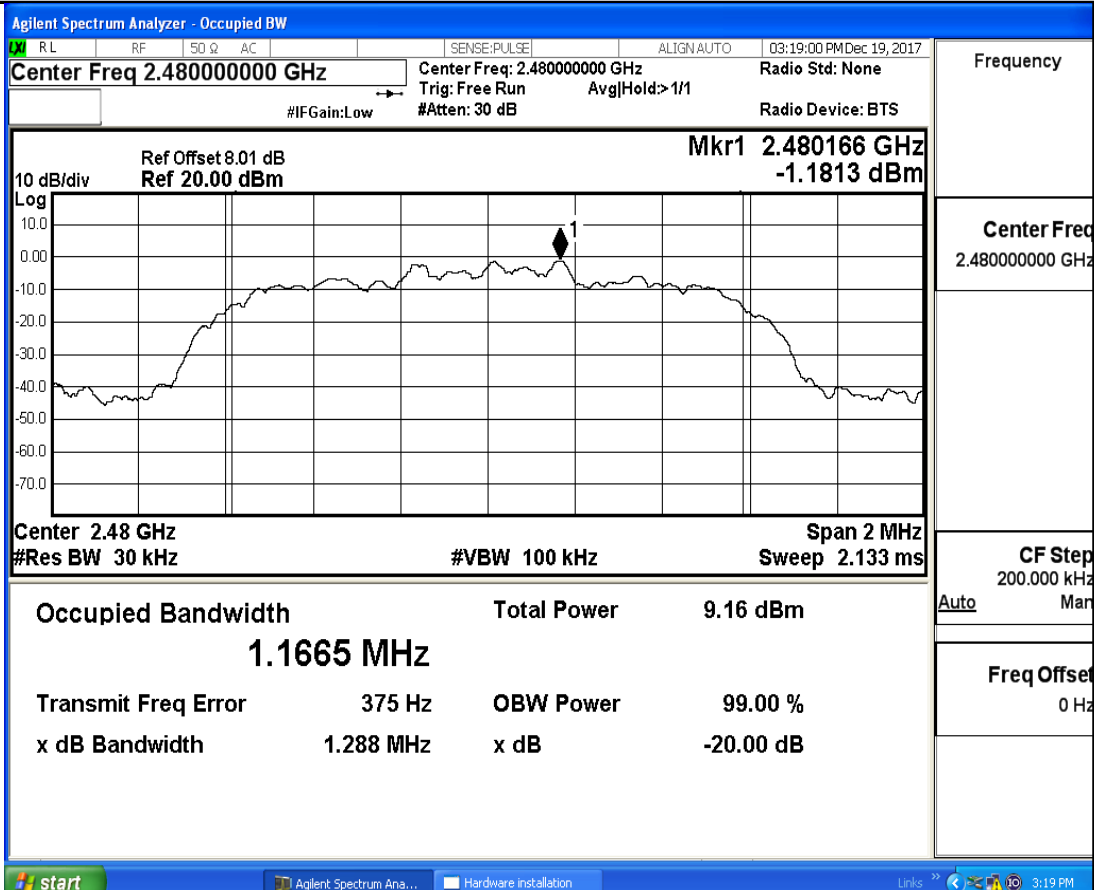
20 dB Bandwidth_2DH5_2402



20 dB Bandwidth_2DH5_2441



20 dB Bandwidth_2DH5_2480



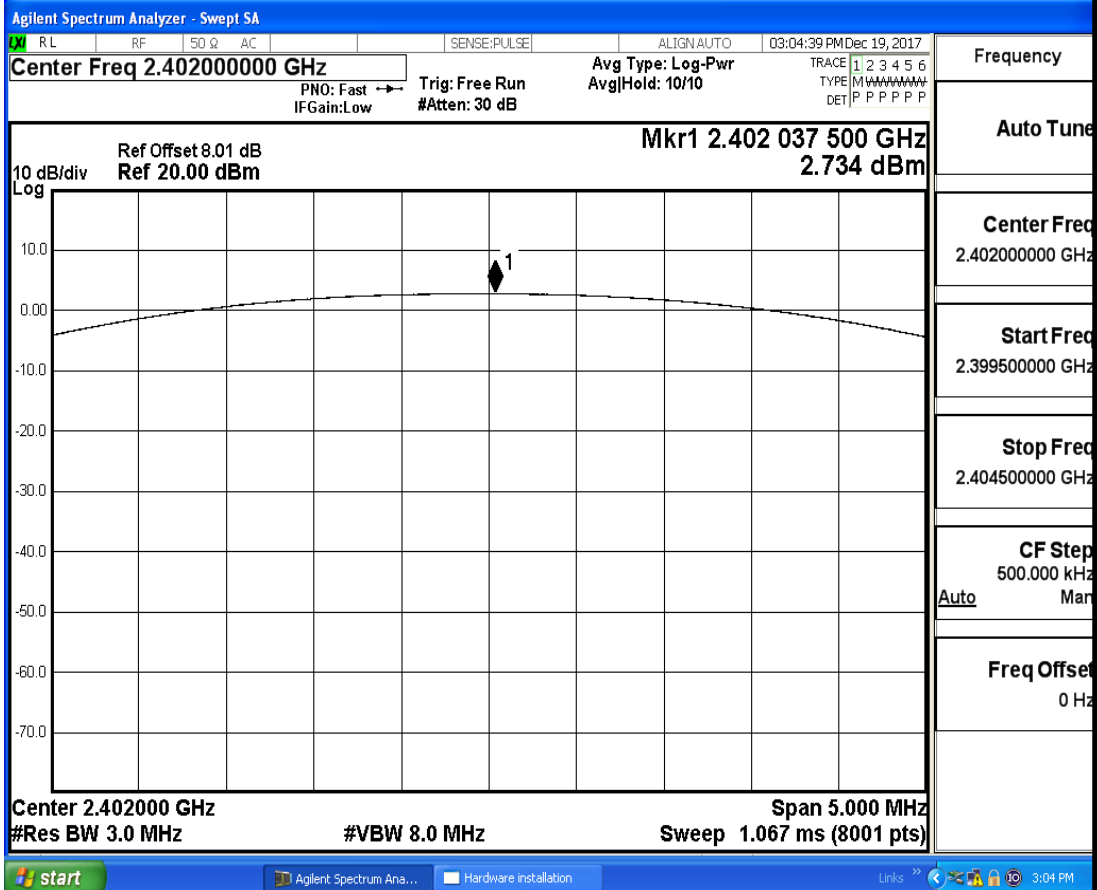
2.Occupied Bandwidth

Test Mode	Test Channel	OBW[MHz]	Limit[MHz]	Verdict
-----------	--------------	----------	------------	---------

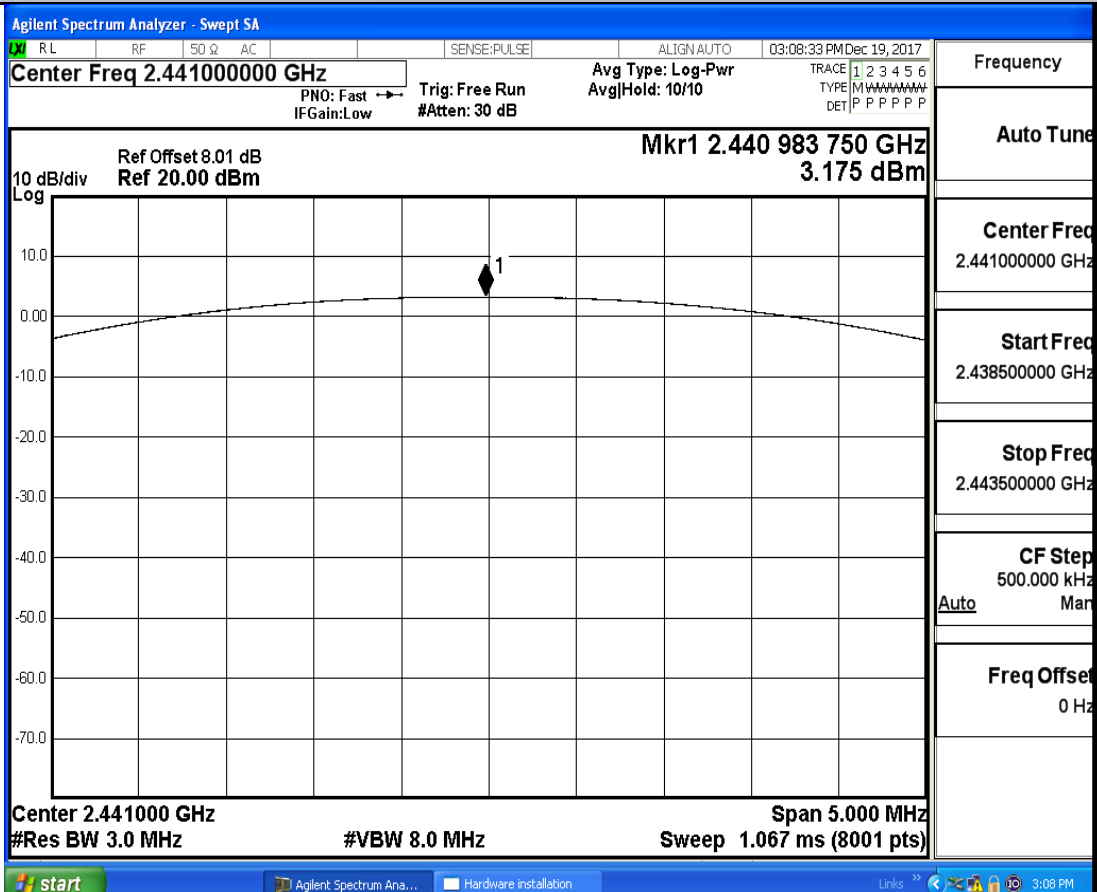
3.Conducted Peak Output Power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
DH5	2402	2.734	30	PASS
DH5	2441	3.175	30	PASS
DH5	2480	3.306	30	PASS
2DH5	2402	2.919	30	PASS
2DH5	2441	3.039	30	PASS
2DH5	2480	3.144	30	PASS

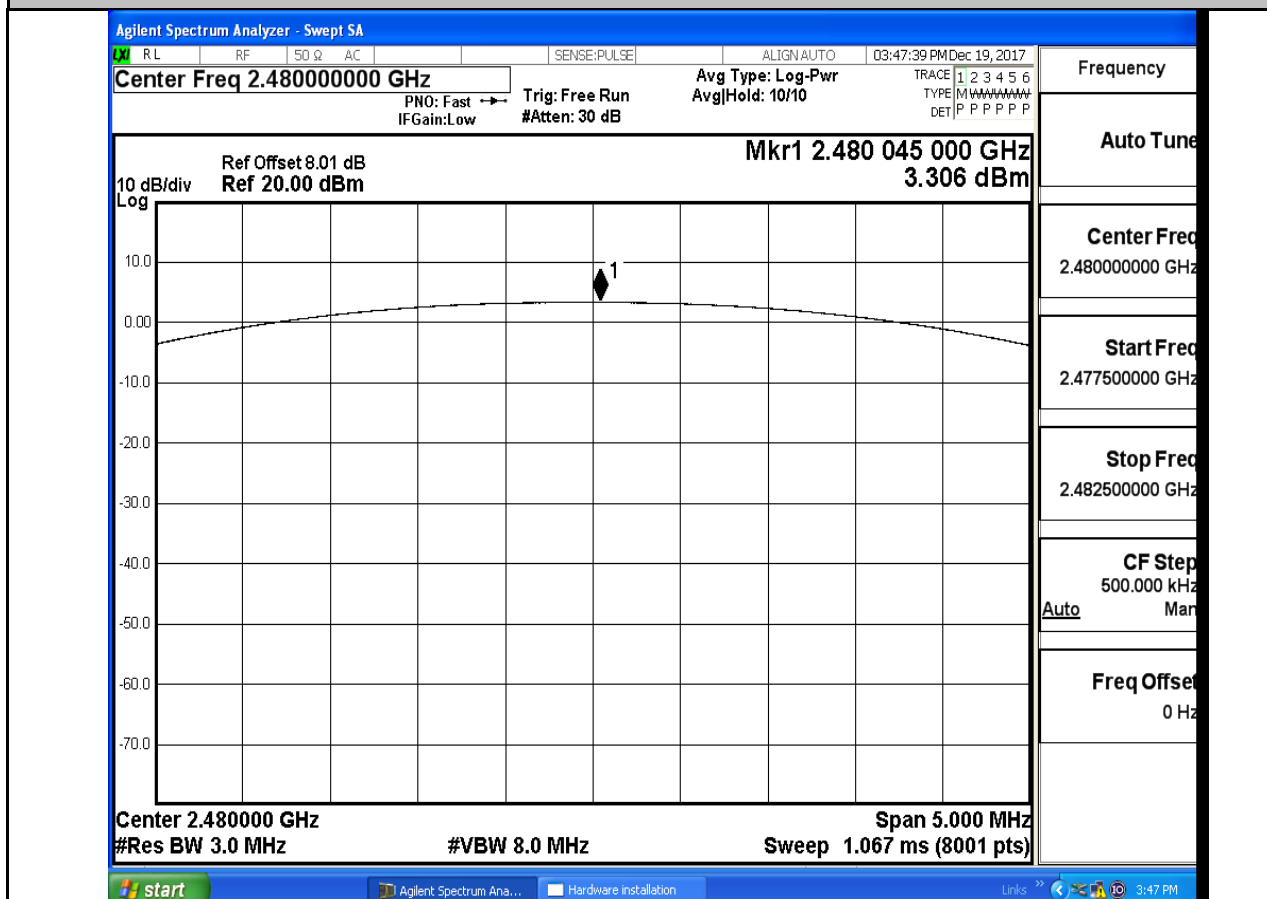
Conducted Peak Output Power_DH5_2402



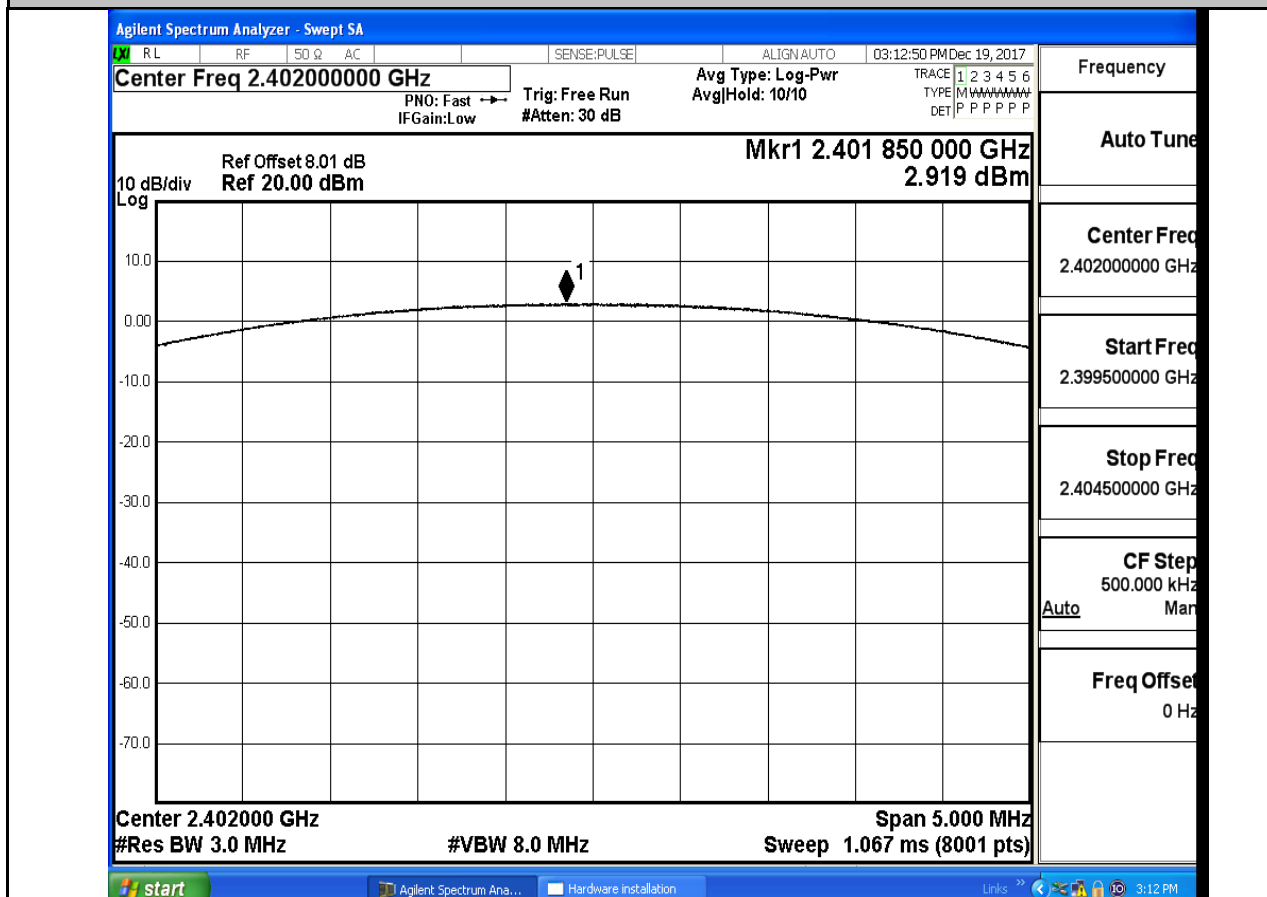
Conducted Peak Output Power_DH5_2441



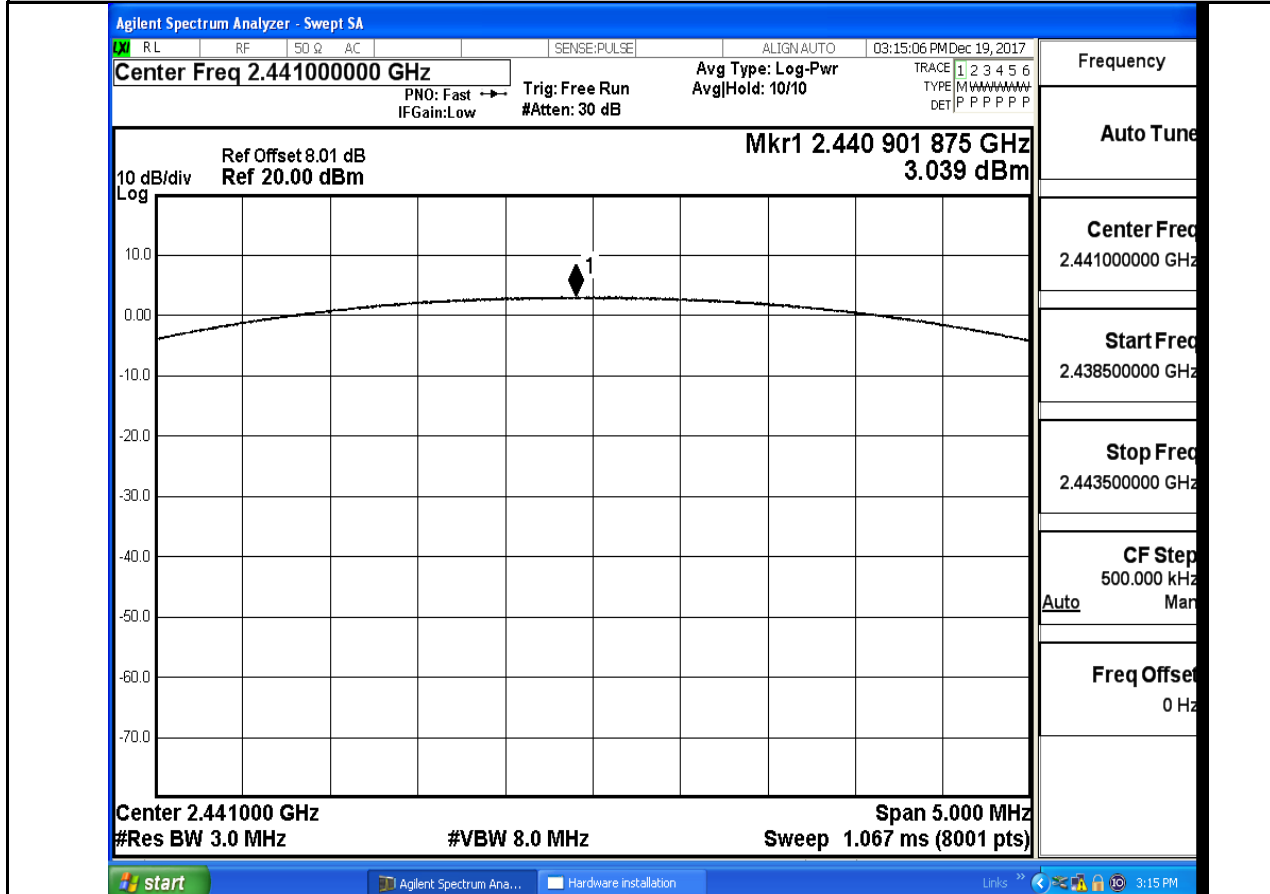
Conducted Peak Output Power_DH5_2480



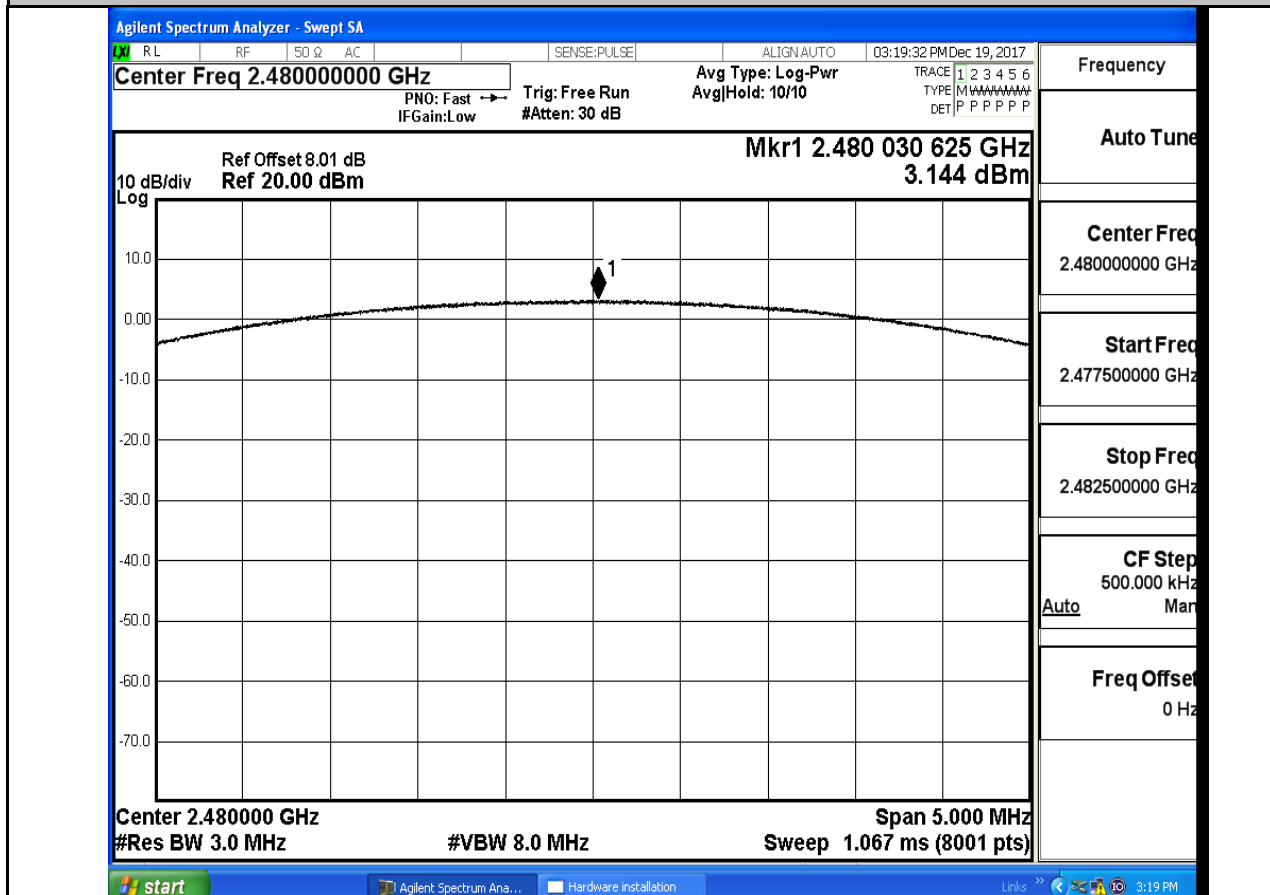
Conducted Peak Output Power_2DH5_2402



Conducted Peak Output Power_2DH5_2441



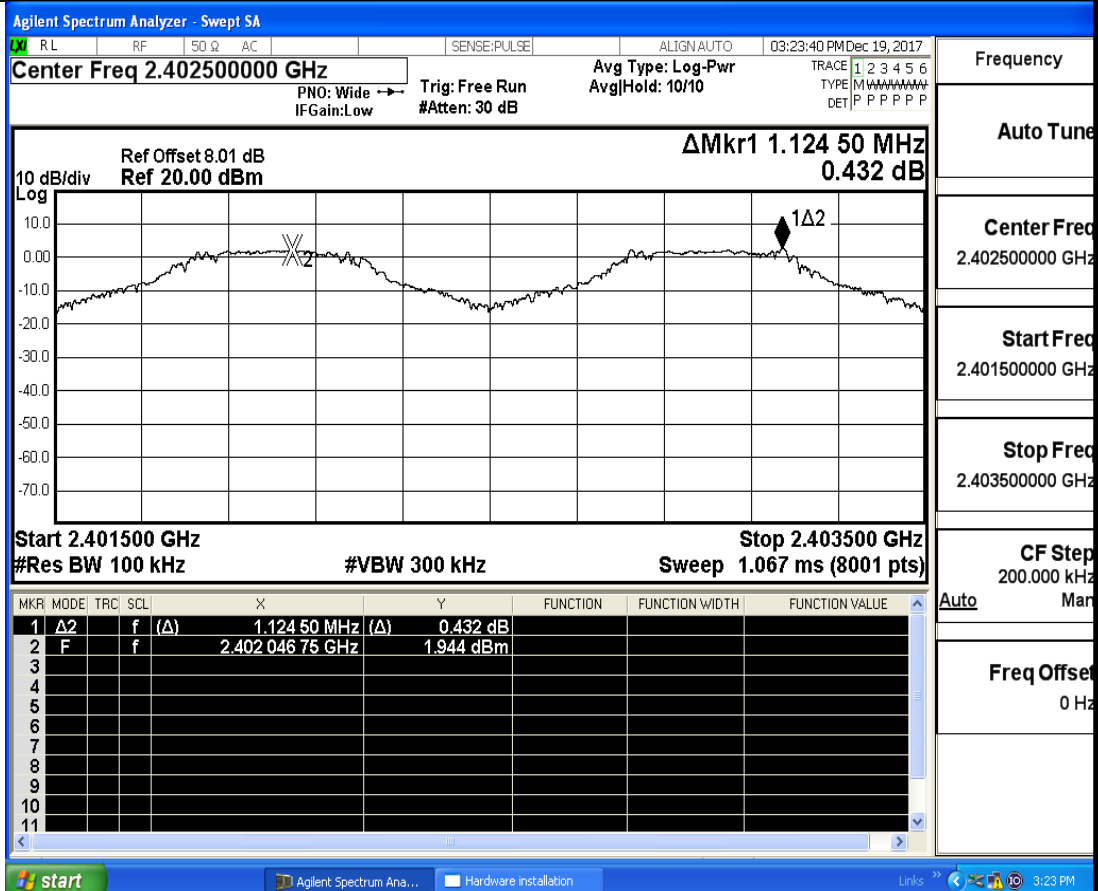
Conducted Peak Output Power_2DH5_2480



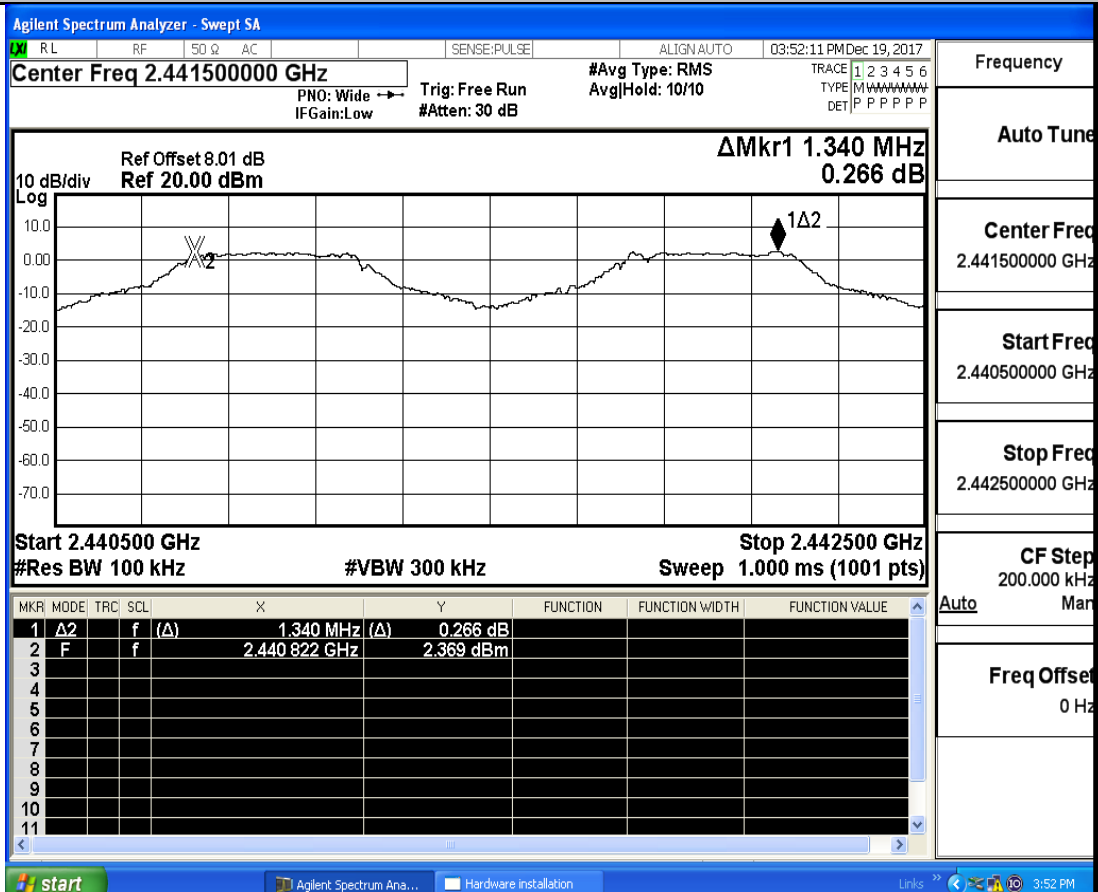
4.Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	2402	1.124	0.65	PASS
DH5	2441	1.34	0.68	PASS
DH5	2480	1.118	0.65	PASS
2DH5	2402	1.038	0.86	PASS
2DH5	2441	1.202	0.86	PASS
2DH5	2480	1.134	0.86	PASS

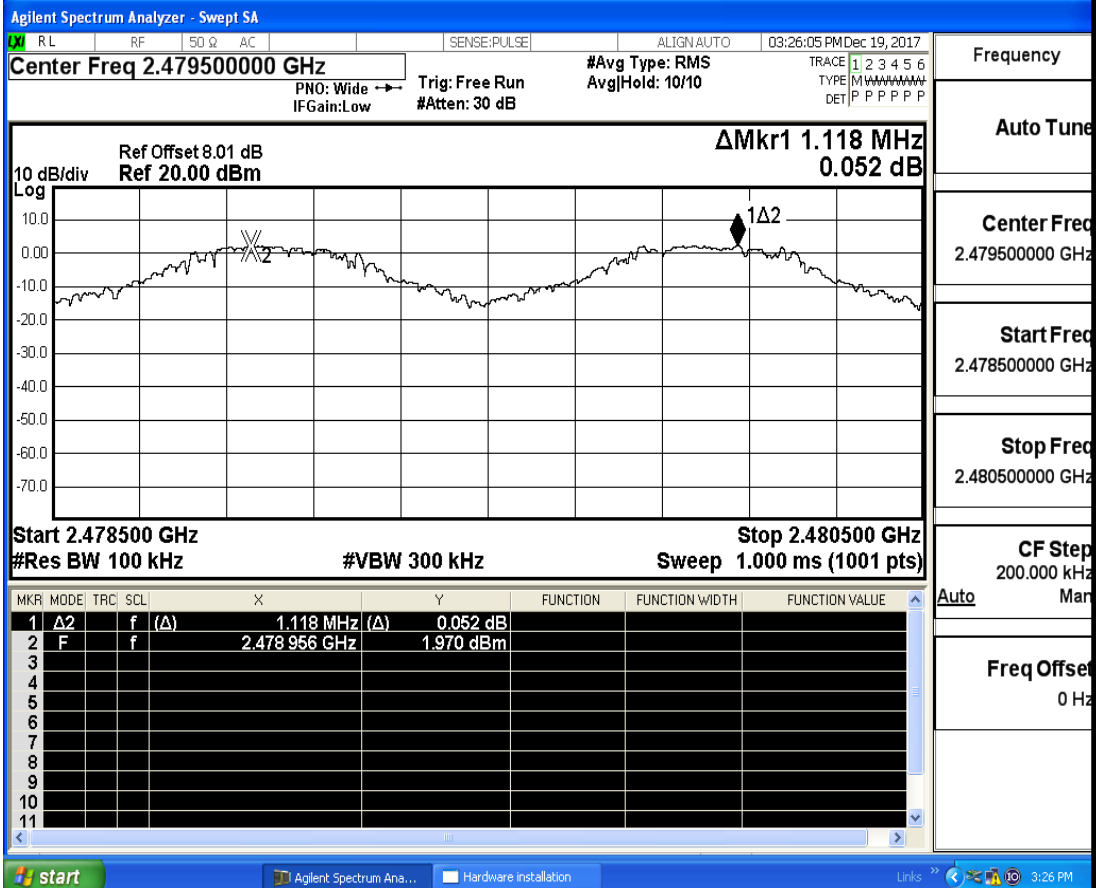
Carrier Frequency Separation_DH5_2402



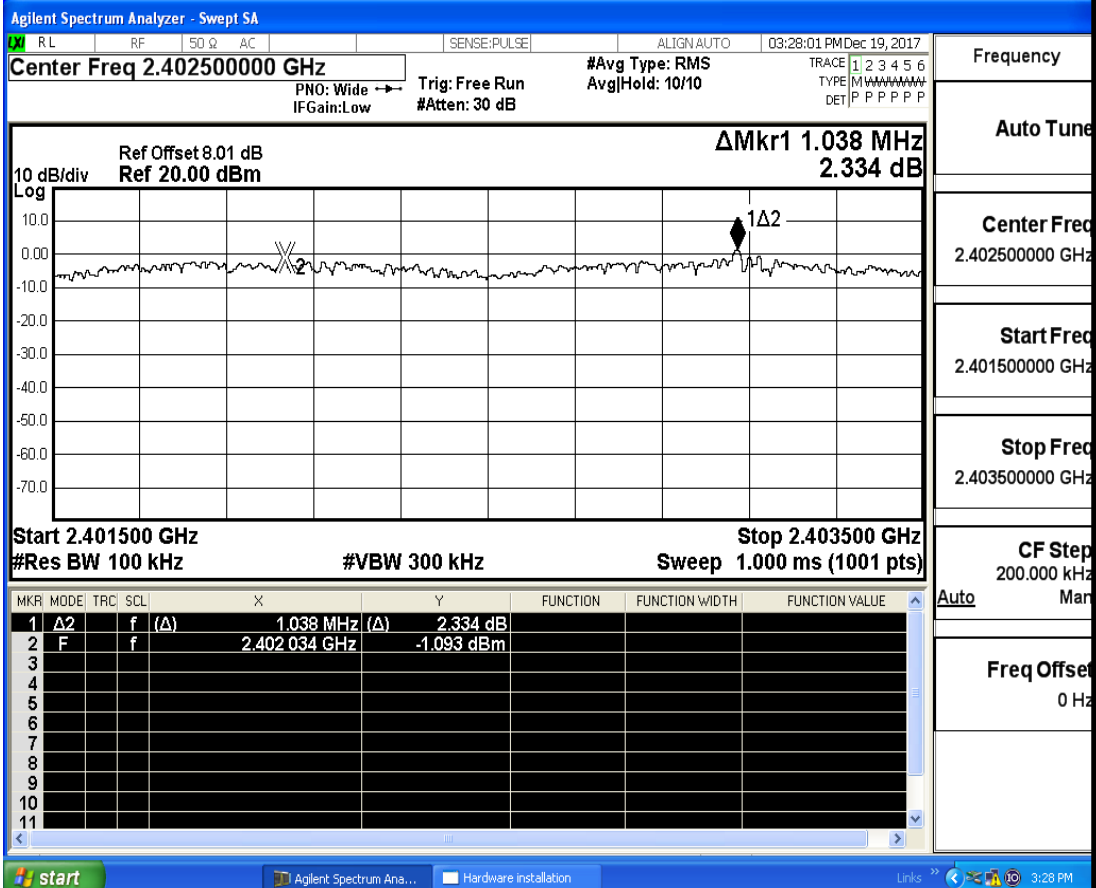
Carrier Frequency Separation_DH5_2441



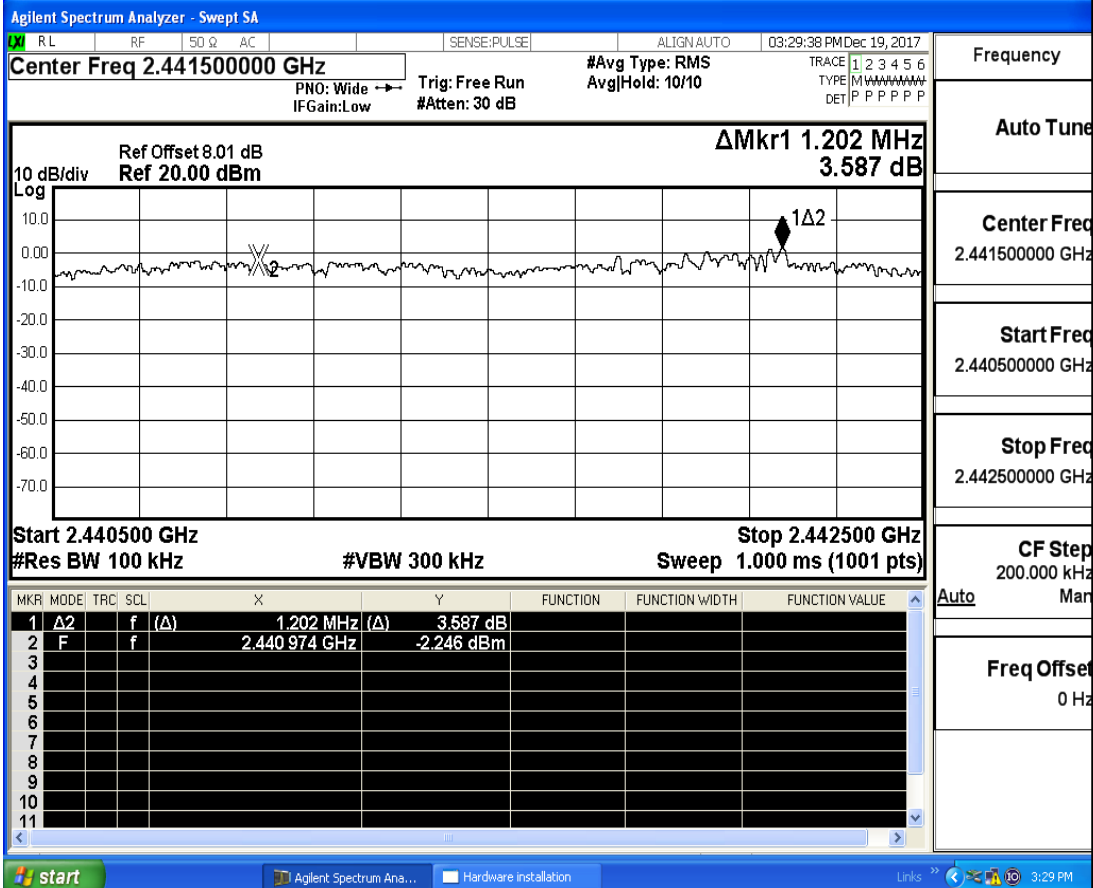
Carrier Frequency Separation_DH5_2480



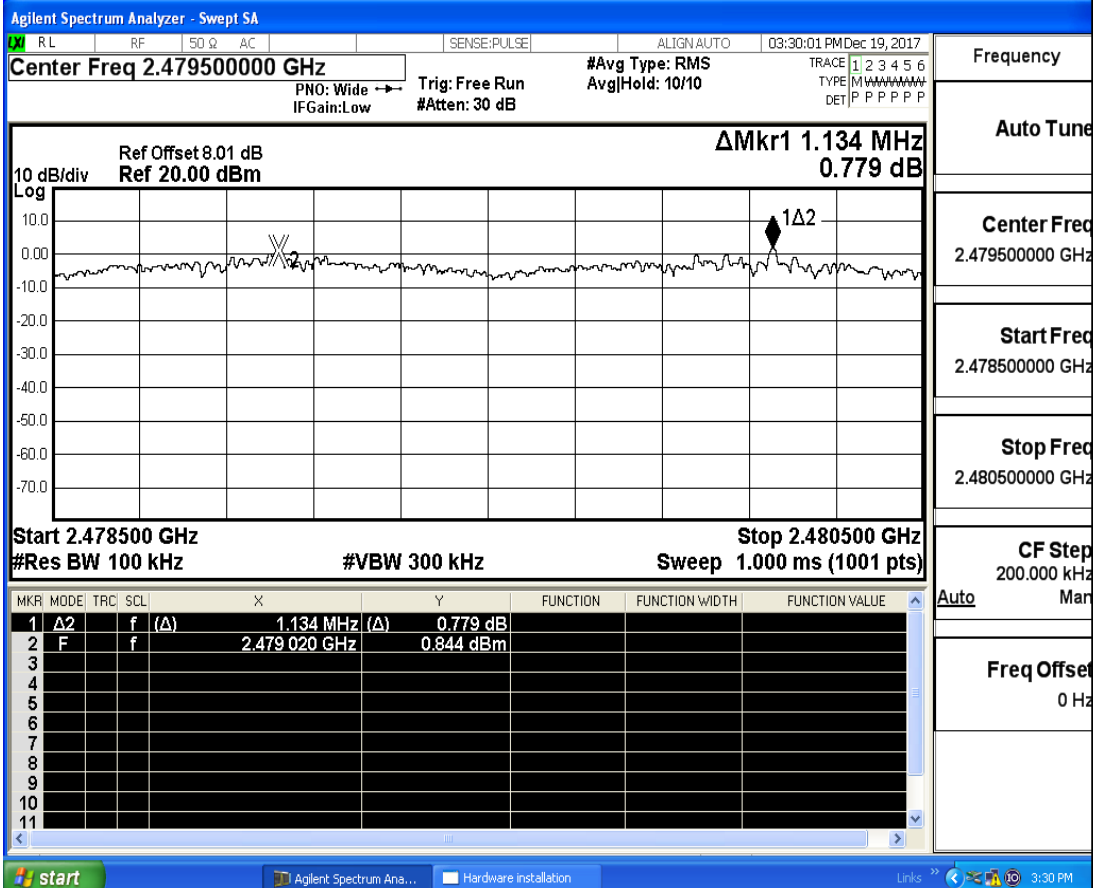
Carrier Frequency Separation_2DH5_2402



Carrier Frequency Separation_2DH5_2441



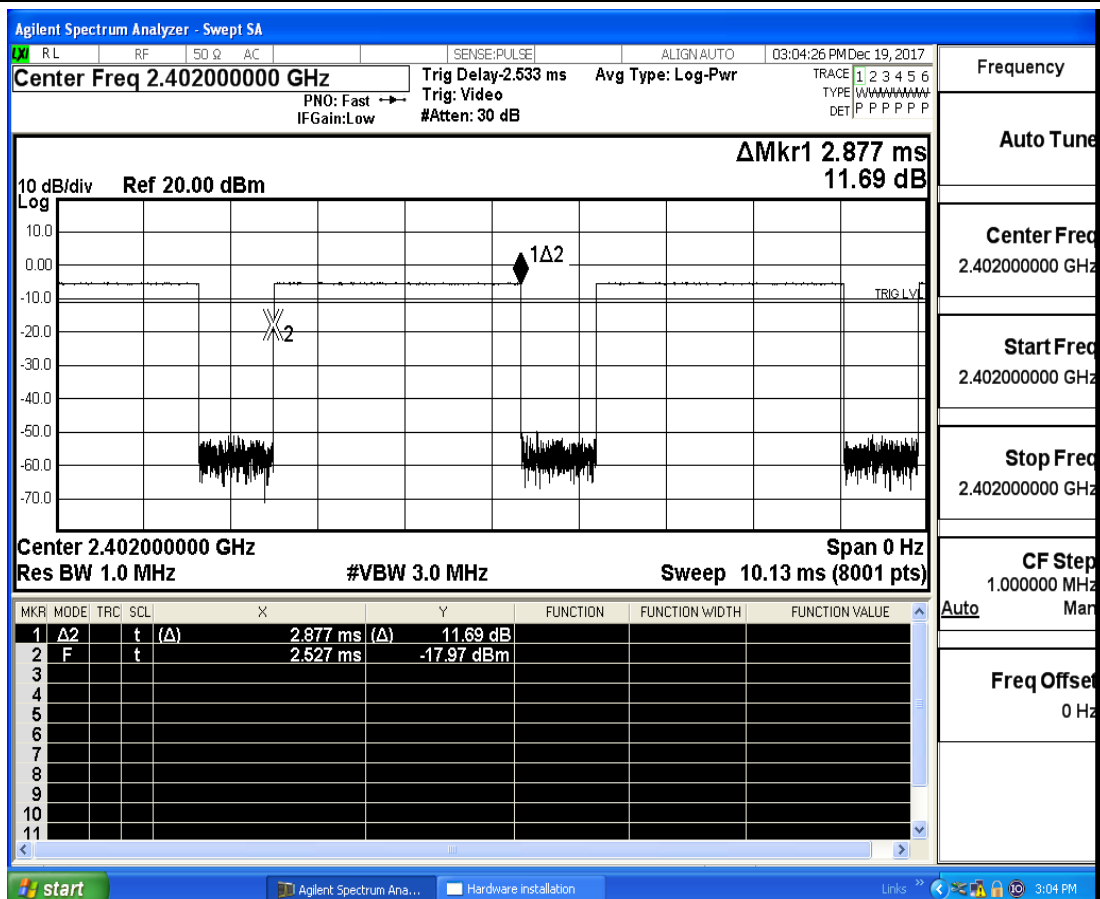
Carrier Frequency Separation_2DH5_2480



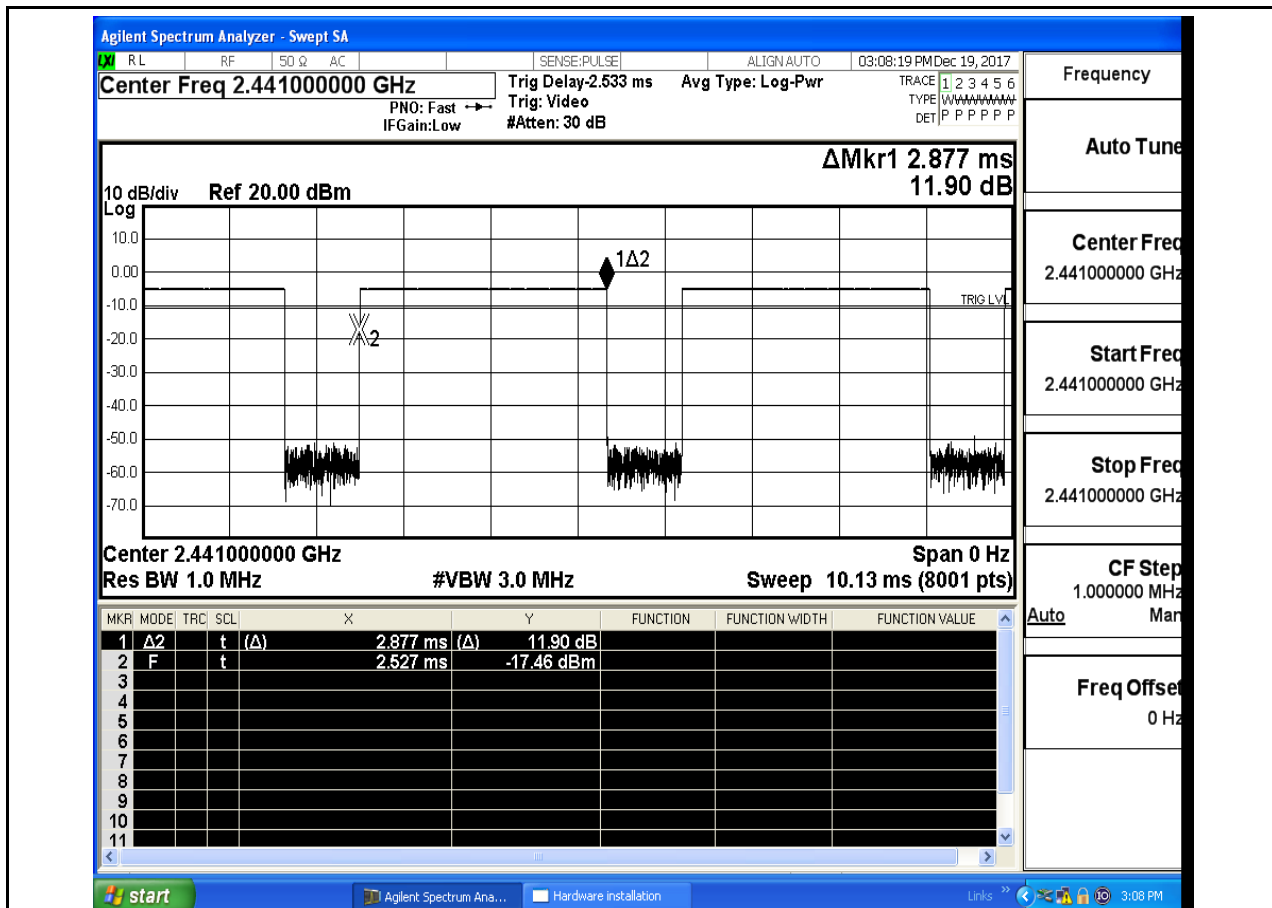
5.Dwell Time

Test Mode	Test Channel	Burst Width[ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit[s]	Verdict
DH5	2402	2.88	106.7	0.307	0.4	PASS
DH5	2441	2.88	106.7	0.307	0.4	PASS
DH5	2480	2.88	106.7	0.307	0.4	PASS
2DH5	2402	2.88	106.7	0.307	0.4	PASS
2DH5	2441	2.88	106.7	0.307	0.4	PASS
2DH5	2480	2.88	106.7	0.307	0.4	PASS

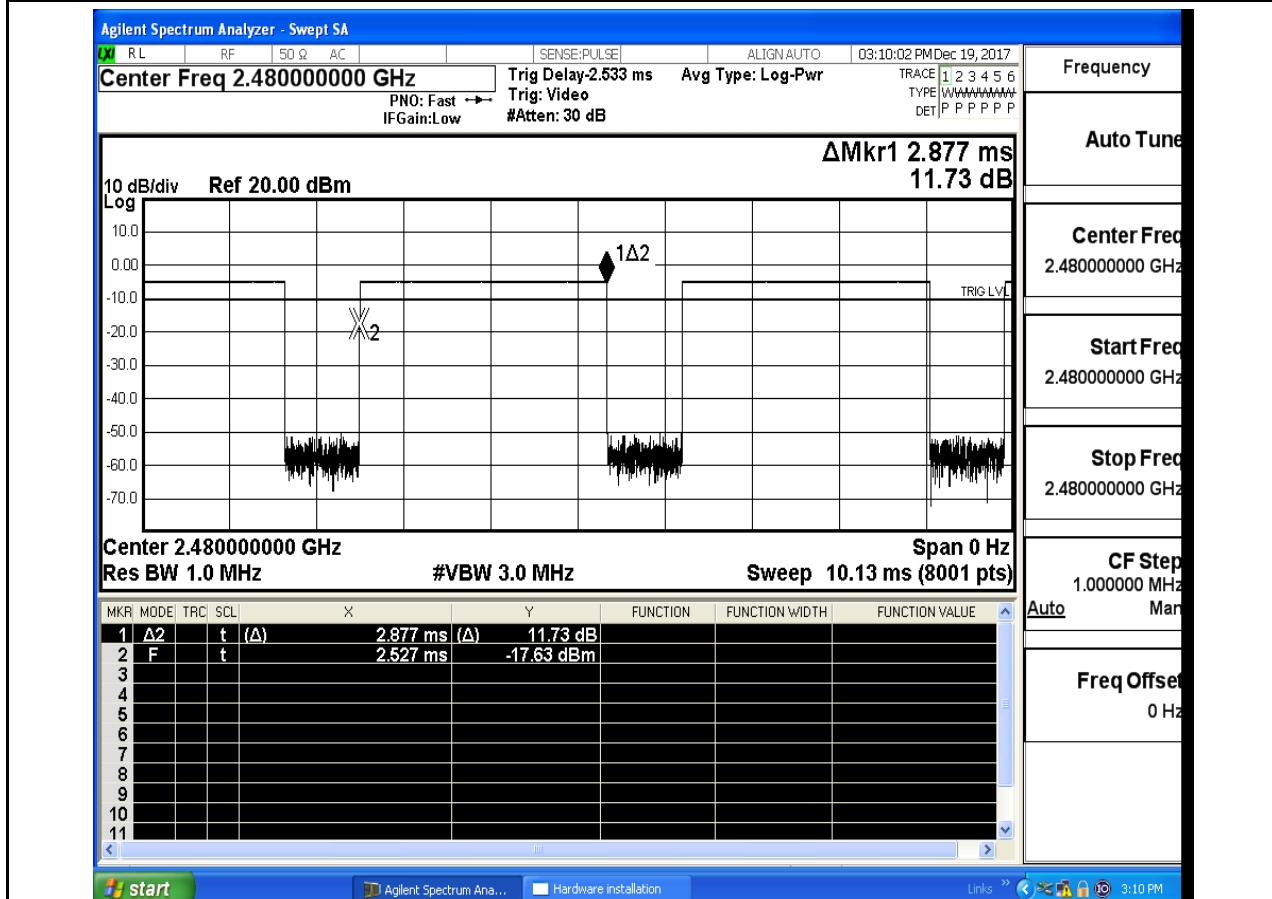
Dwell Time DH5 2402



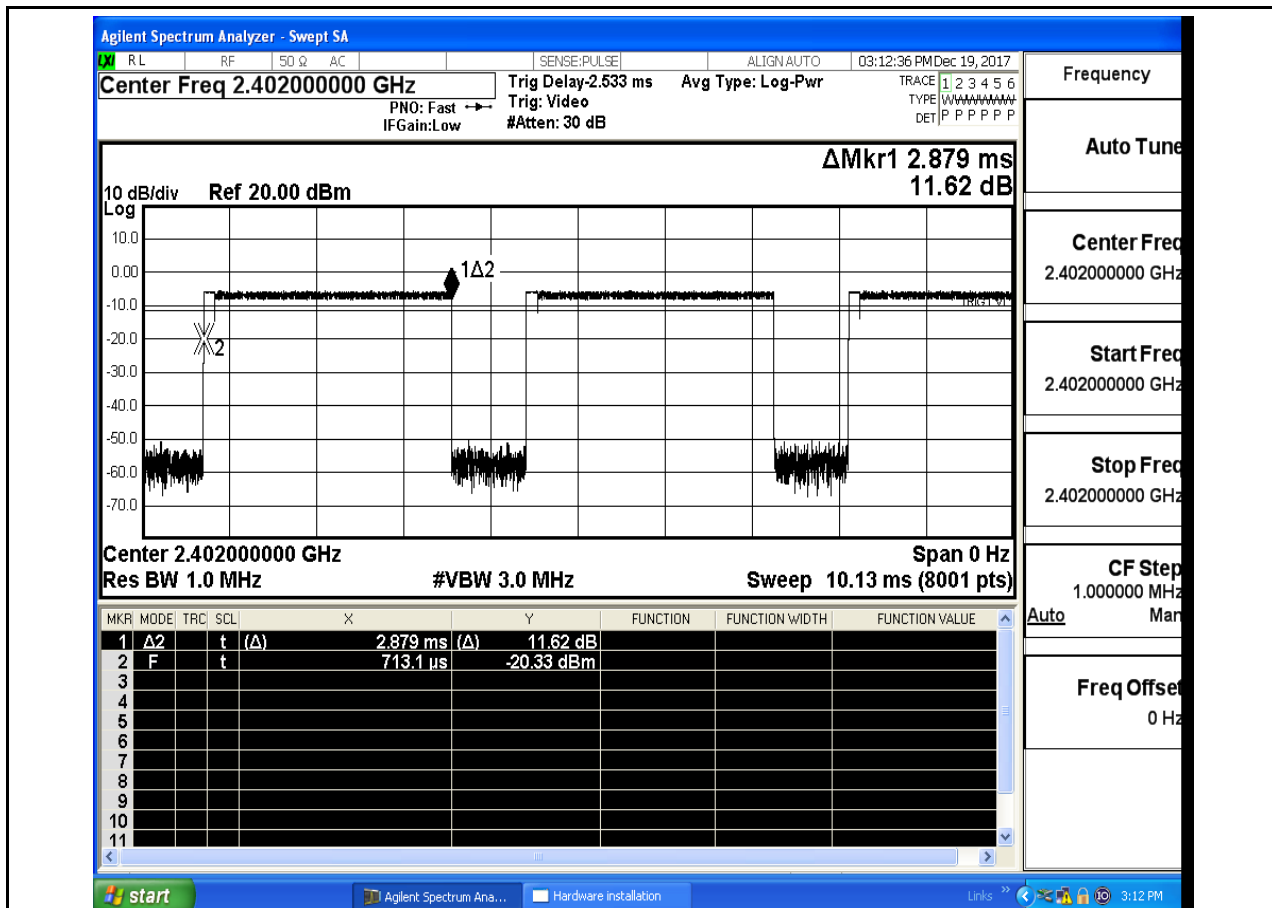
Dwell Time_DH5_2441



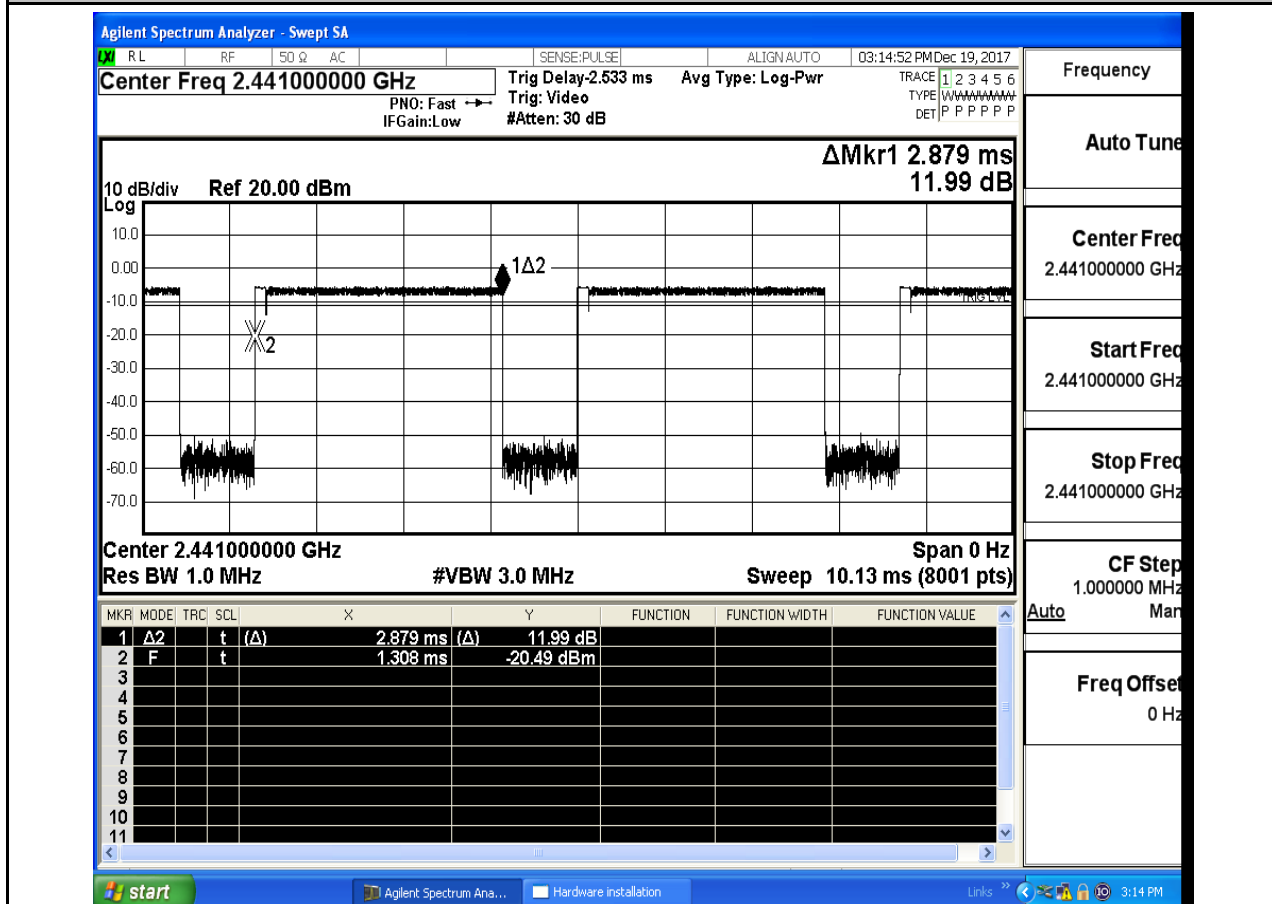
Dwell Time_DH5_2480



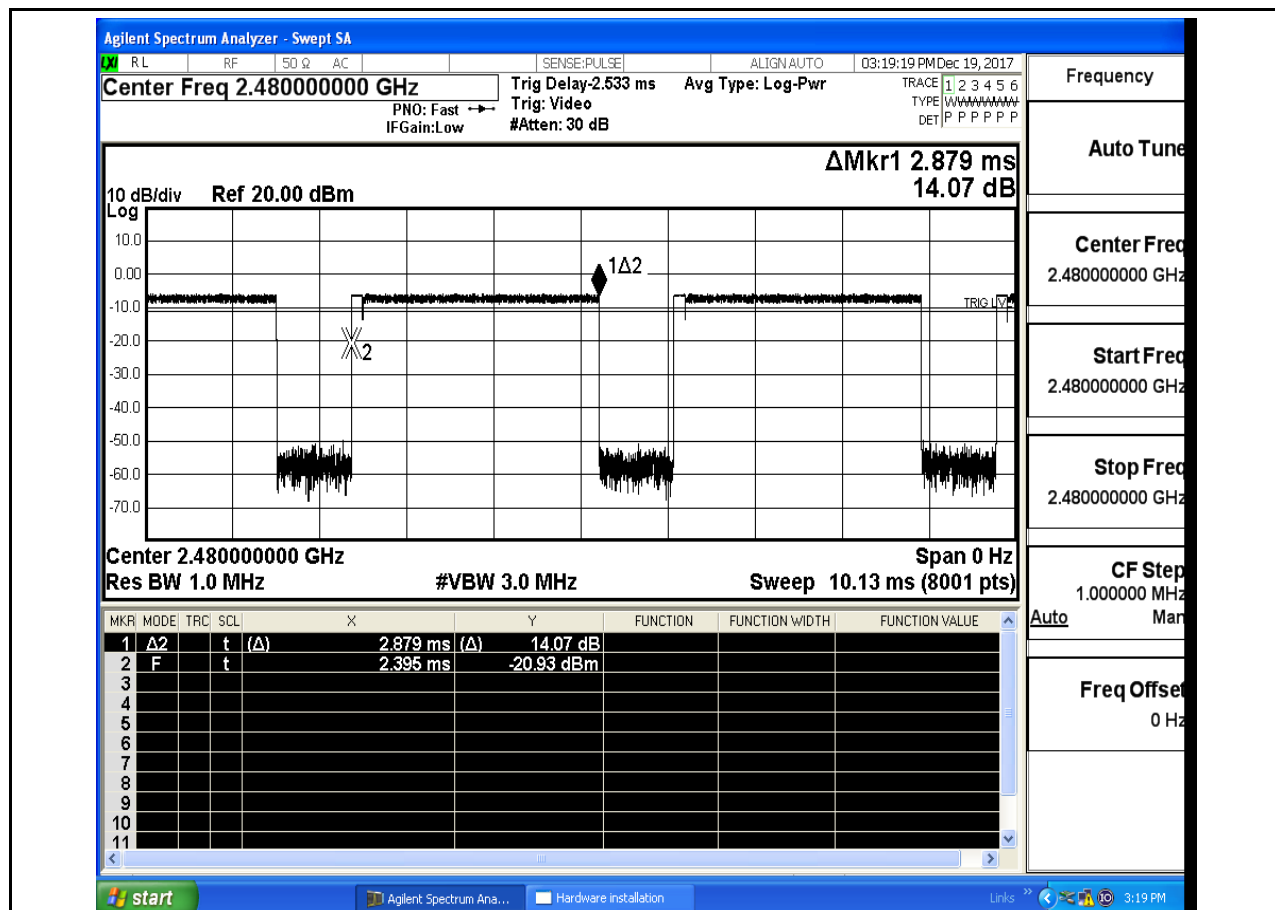
Dwell Time_2DH5_2402



Dwell Time_2DH5_2441



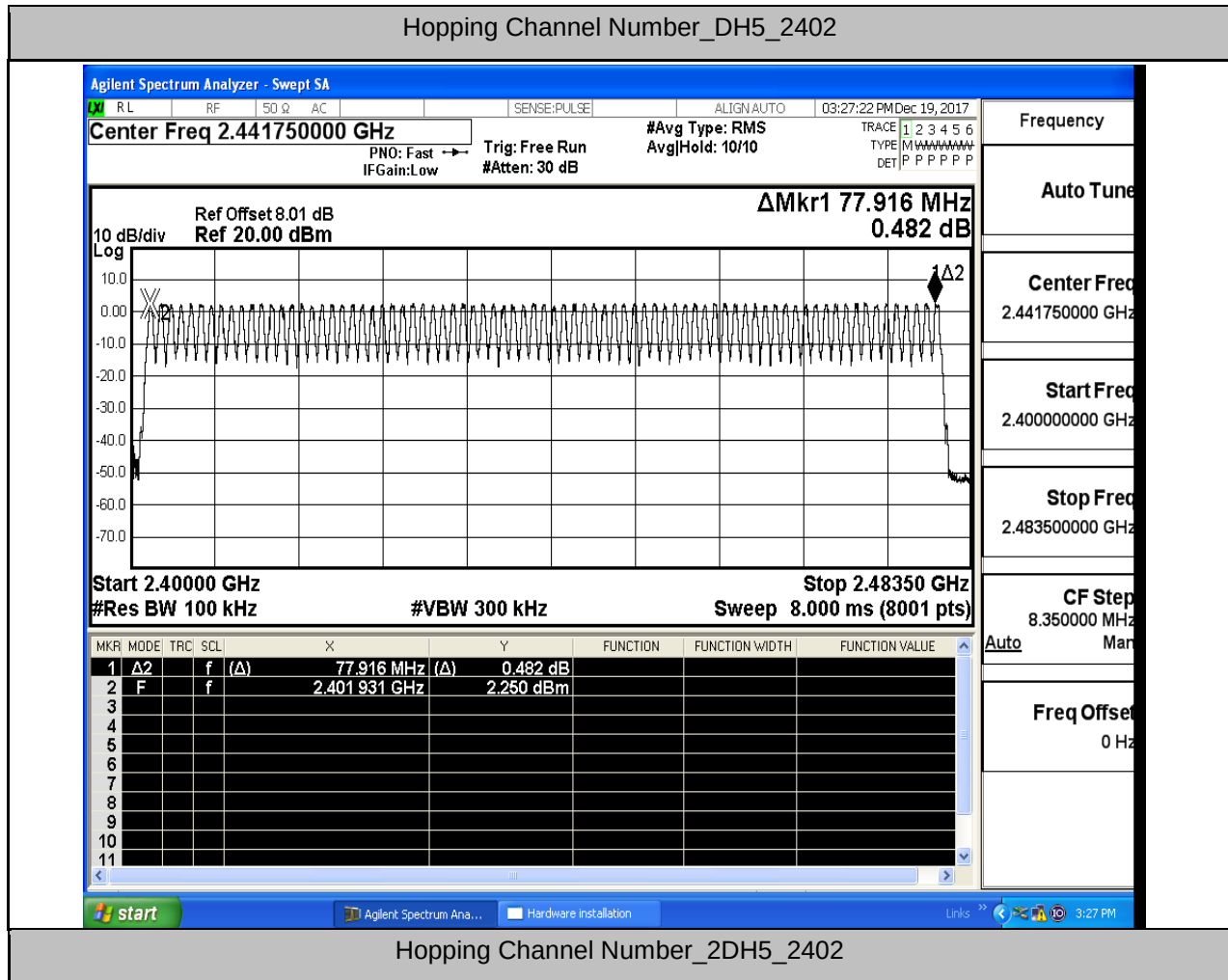
Dwell Time_2DH5_2480

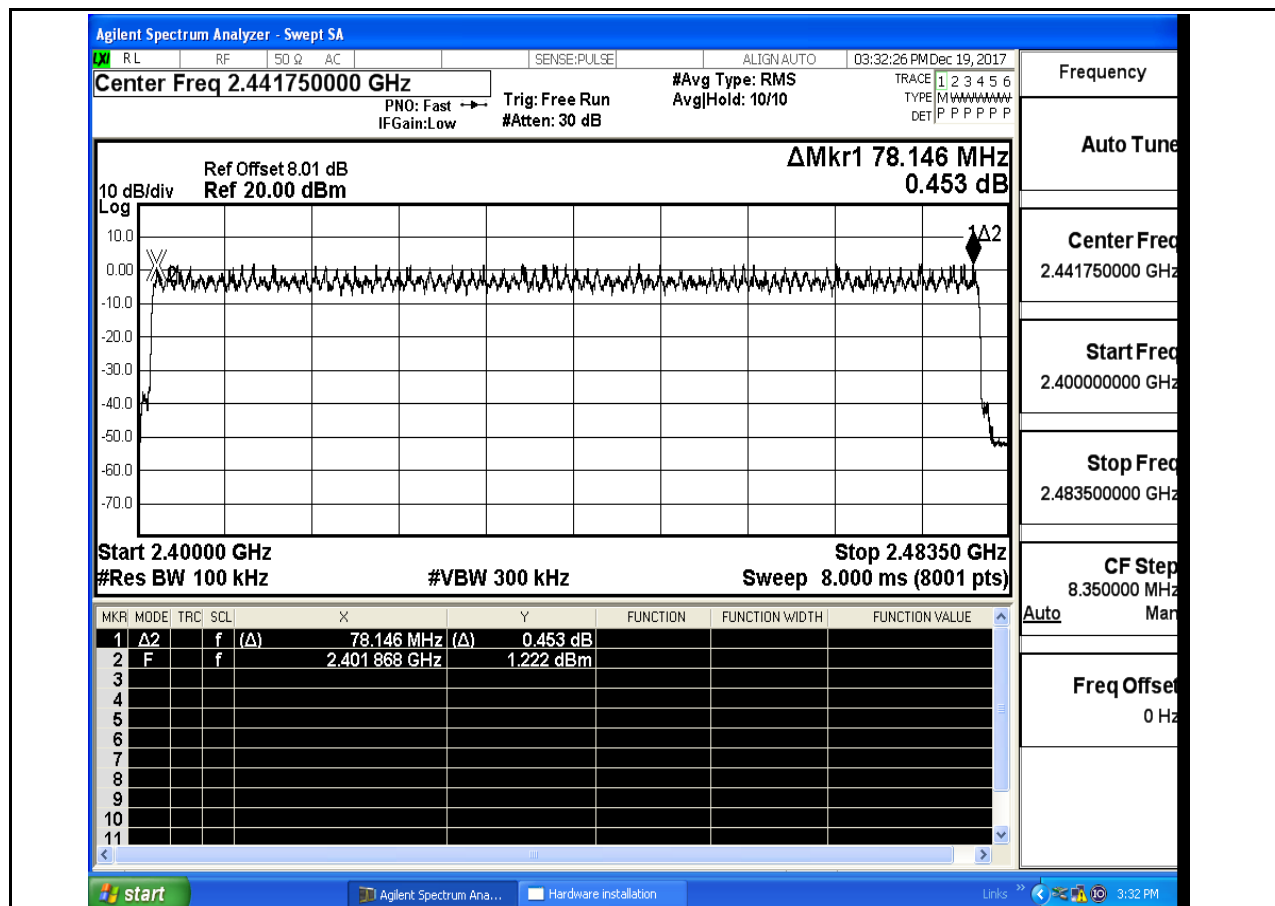


6.Hopping Channel Number

Test Mode	Test Channel	Number of Hopping Channel[N]	Limit[N]	Verdict
DH5	2402	79	>=15	PASS
2DH5	2402	79	>=15	PASS

Hopping Channel Number_DH5_2402

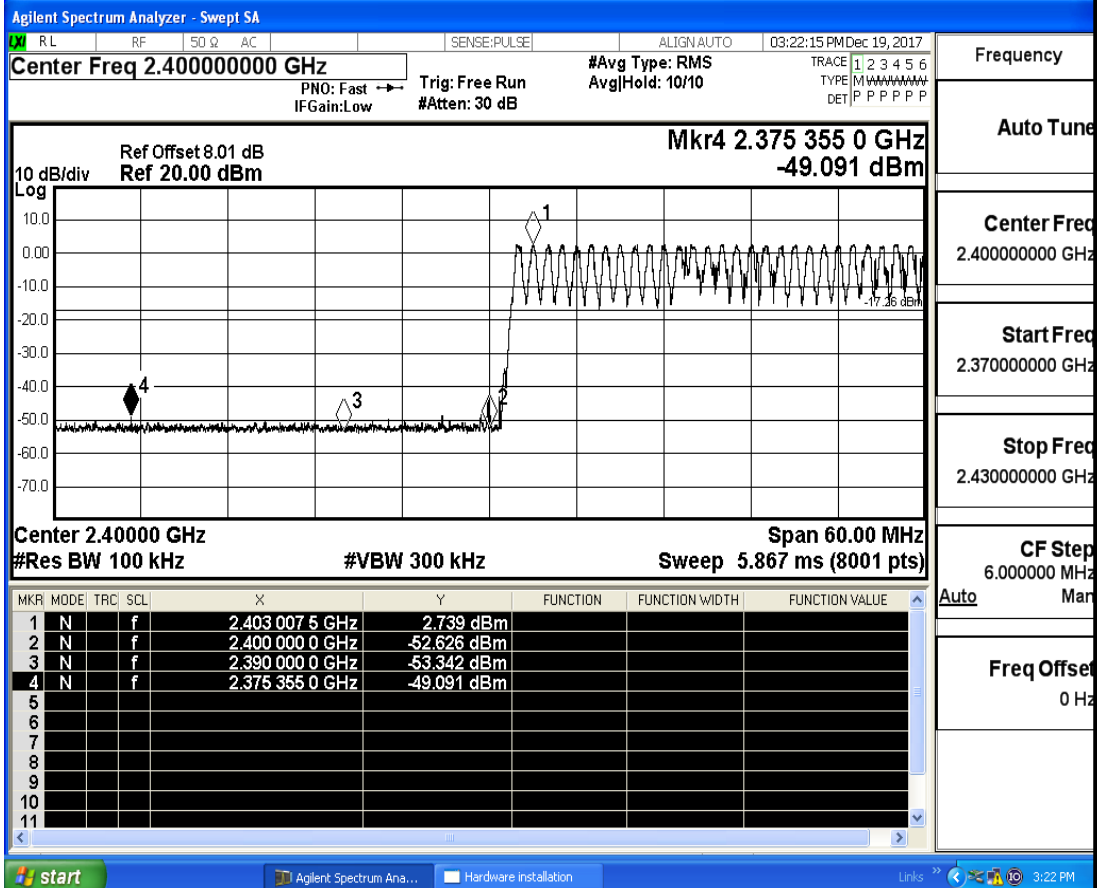




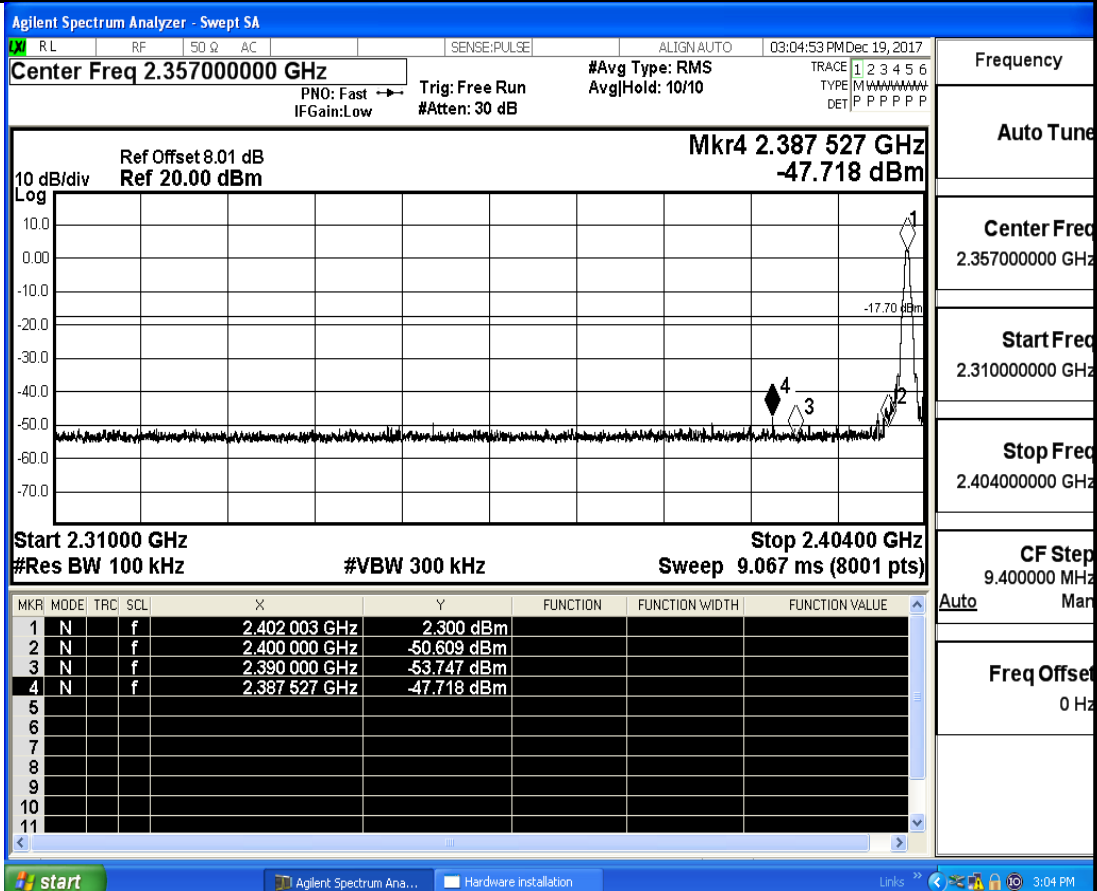
7.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Hopping	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit[dBm]	Verdict
DH5	2402	On	2.739	-49.091	-17.26	PASS
DH5	2402	Off	2.300	-47.718	-17.7	PASS
DH5	2480	On	2.738	-49.778	-17.26	PASS
DH5	2480	Off	3.092	-47.136	-16.91	PASS
2DH5	2402	On	4.175	-45.131	-15.83	PASS
2DH5	2402	Off	1.623	-49.927	-18.38	PASS
2DH5	2480	On	1.788	-49.761	-18.21	PASS
2DH5	2480	Off	2.131	-49.977	-17.87	PASS

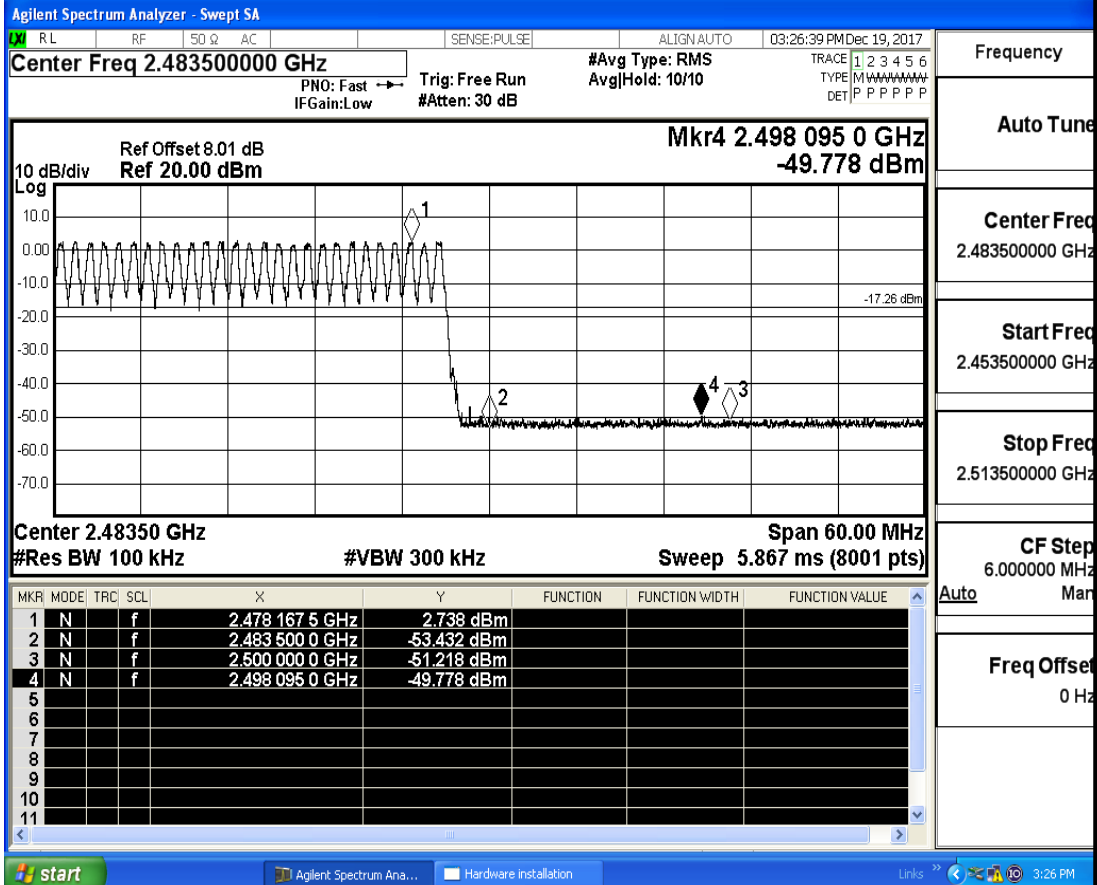
Band-edge for RF Conducted Emissions_DH5_2402_Hopping On



Band-edge for RF Conducted Emissions_DH5_2402_Hopping Off



Band-edge for RF Conducted Emissions_DH5_2480_Hopping On



Frequency

Auto Tune

Center Freq
2.483500000 GHz

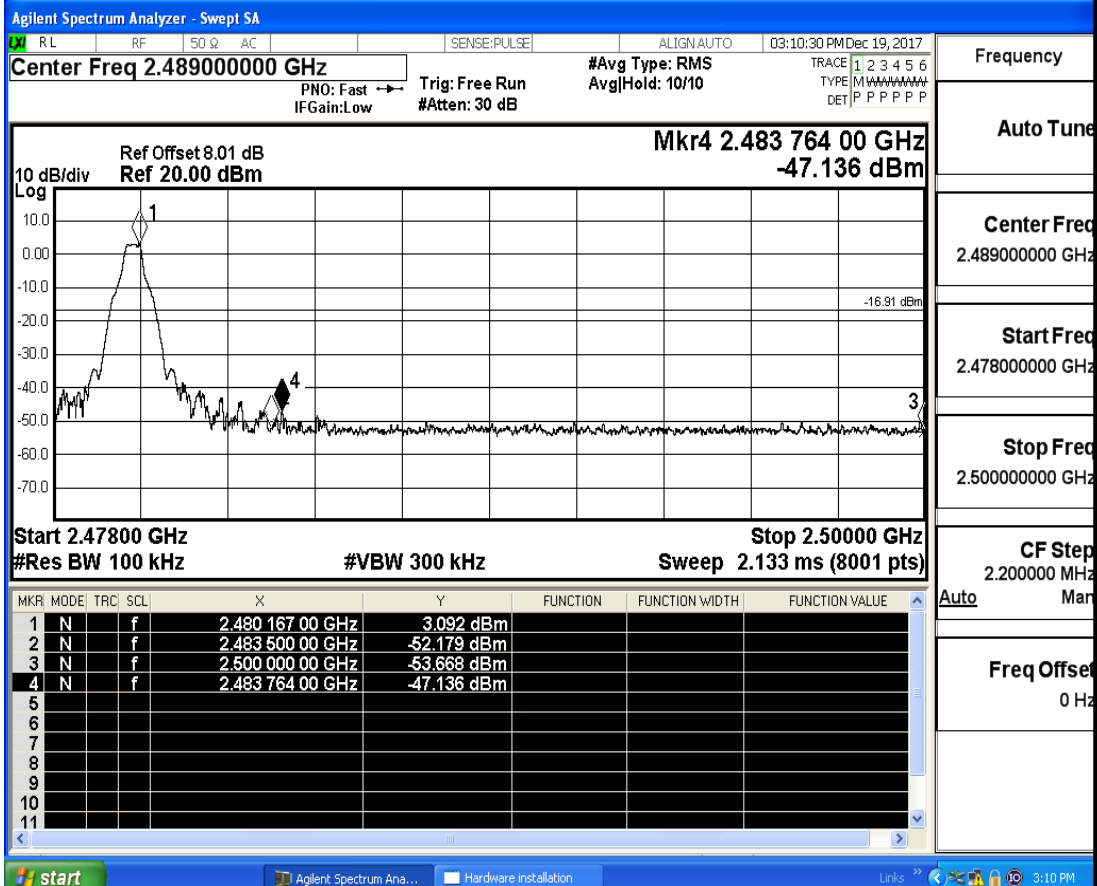
Start Freq
2.453500000 GHz

Stop Freq
2.513500000 GHz

CF Step
6.000000 MHz

Freq Offset
0 Hz

Band-edge for RF Conducted Emissions_DH5_2480_Hopping Off



Frequency

Auto Tune

Center Freq
2.489000000 GHz

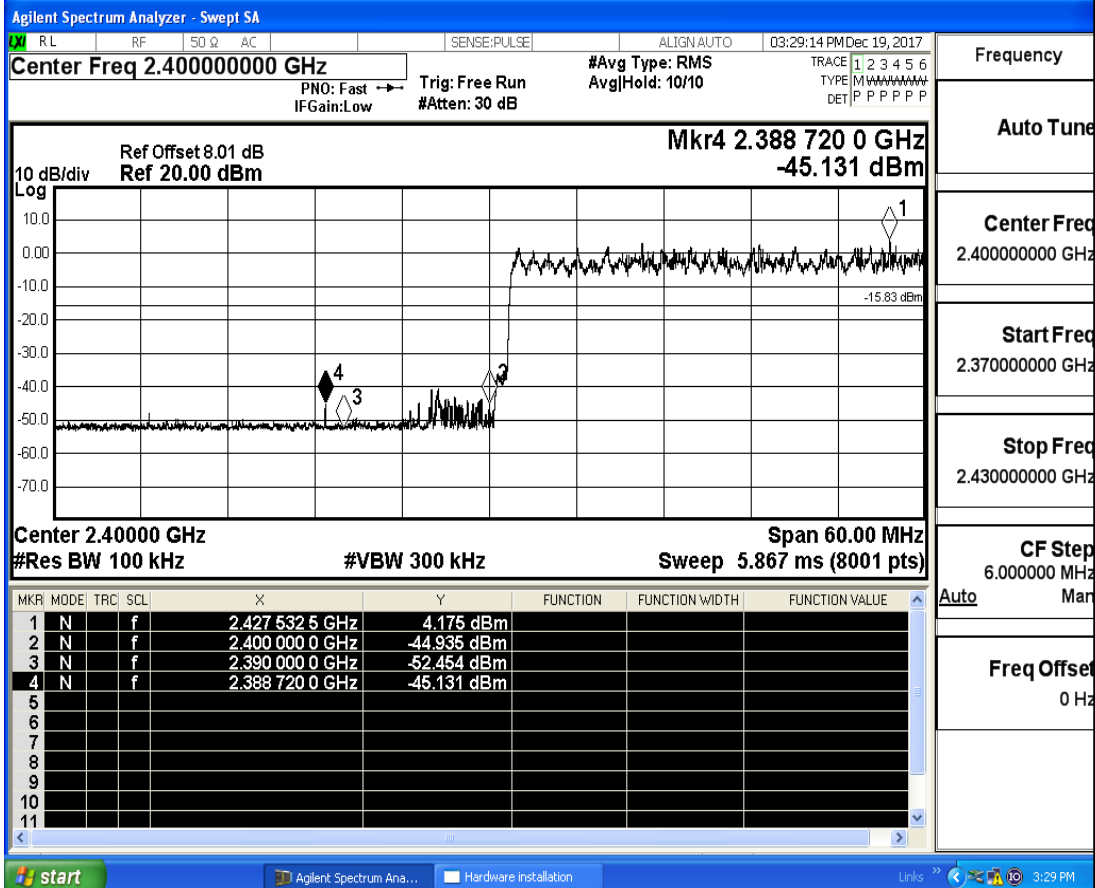
Start Freq
2.478000000 GHz

Stop Freq
2.500000000 GHz

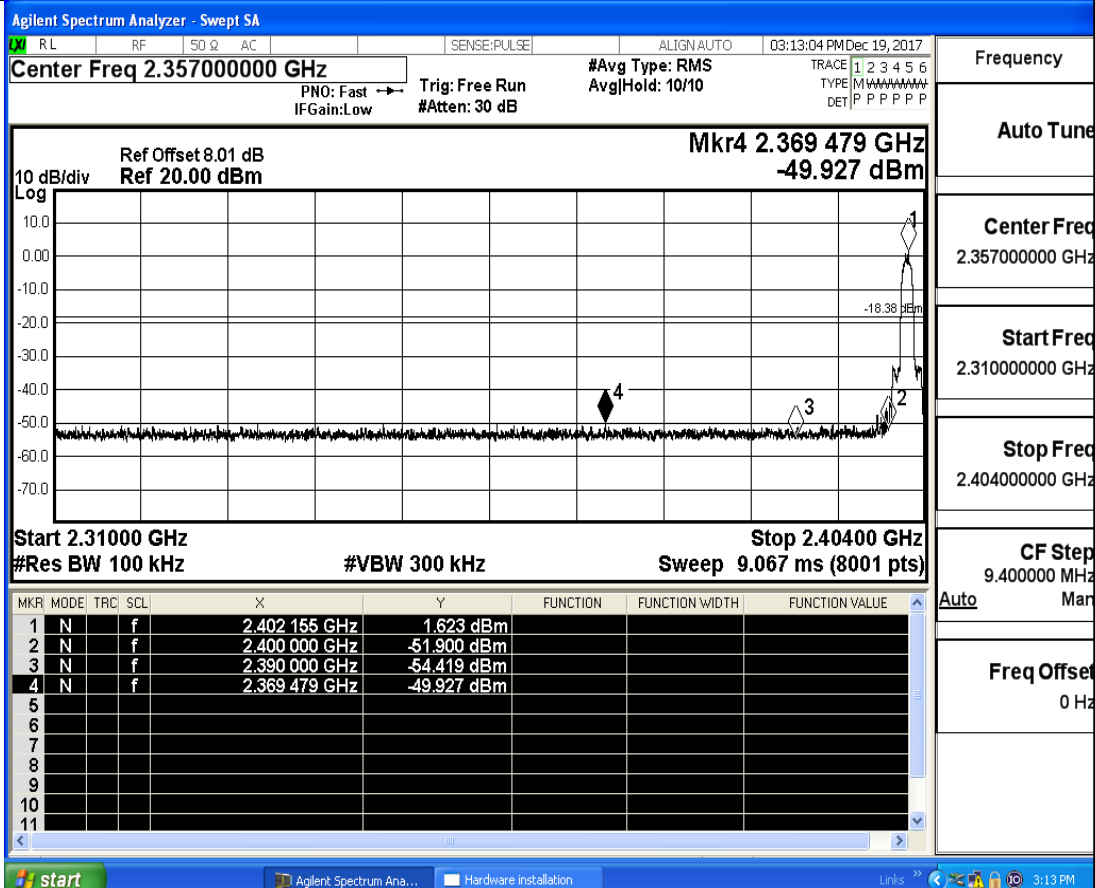
CF Step
2.200000 MHz

Freq Offset
0 Hz

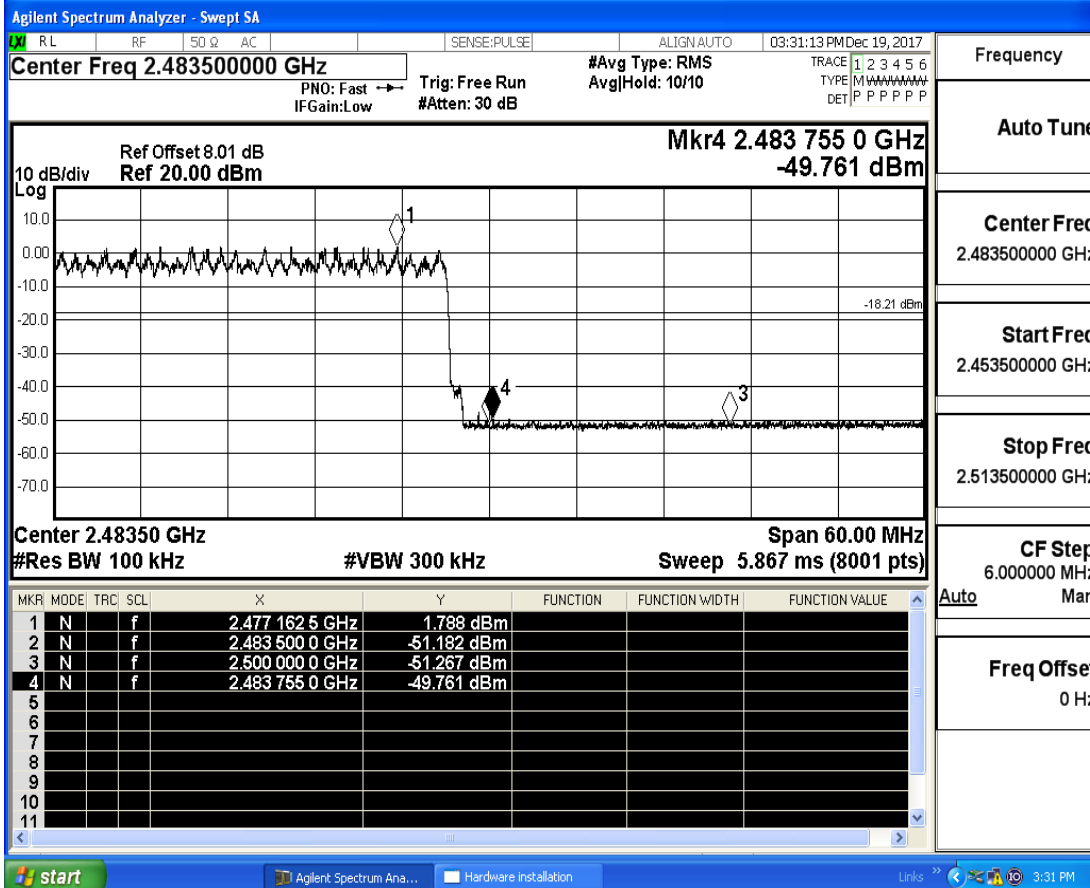
Band-edge for RF Conducted Emissions_2DH5_2402_Hopping On



Band-edge for RF Conducted Emissions_2DH5_2402_Hopping Off



Band-edge for RF Conducted Emissions_2DH5_2480_Hopping On



Frequency

Auto Tune

Center Freq
2.483500000 GHz

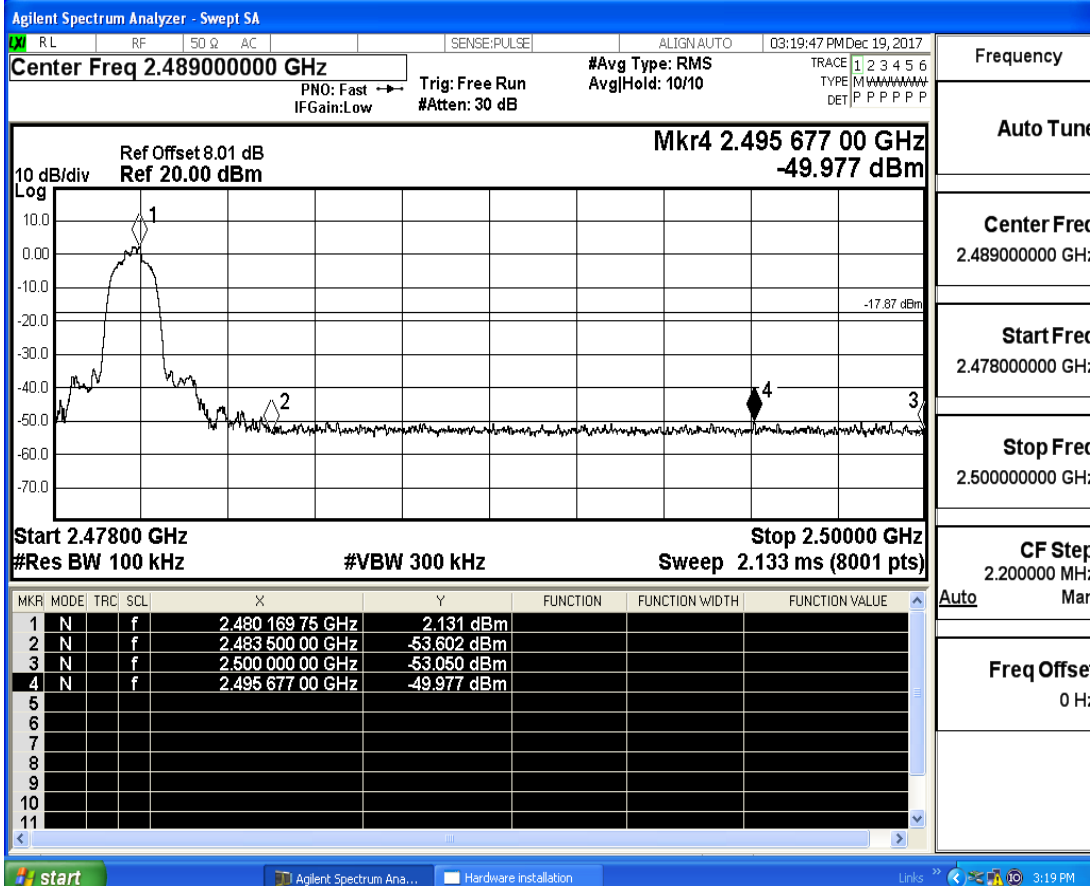
Start Freq
2.453500000 GHz

Stop Freq
2.513500000 GHz

CF Step
6.000000 MHz

Freq Offset
0 Hz

Band-edge for RF Conducted Emissions_2DH5_2480_Hopping Off



Frequency

Auto Tune

Center Freq
2.489000000 GHz

Start Freq
2.478000000 GHz

Stop Freq
2.500000000 GHz

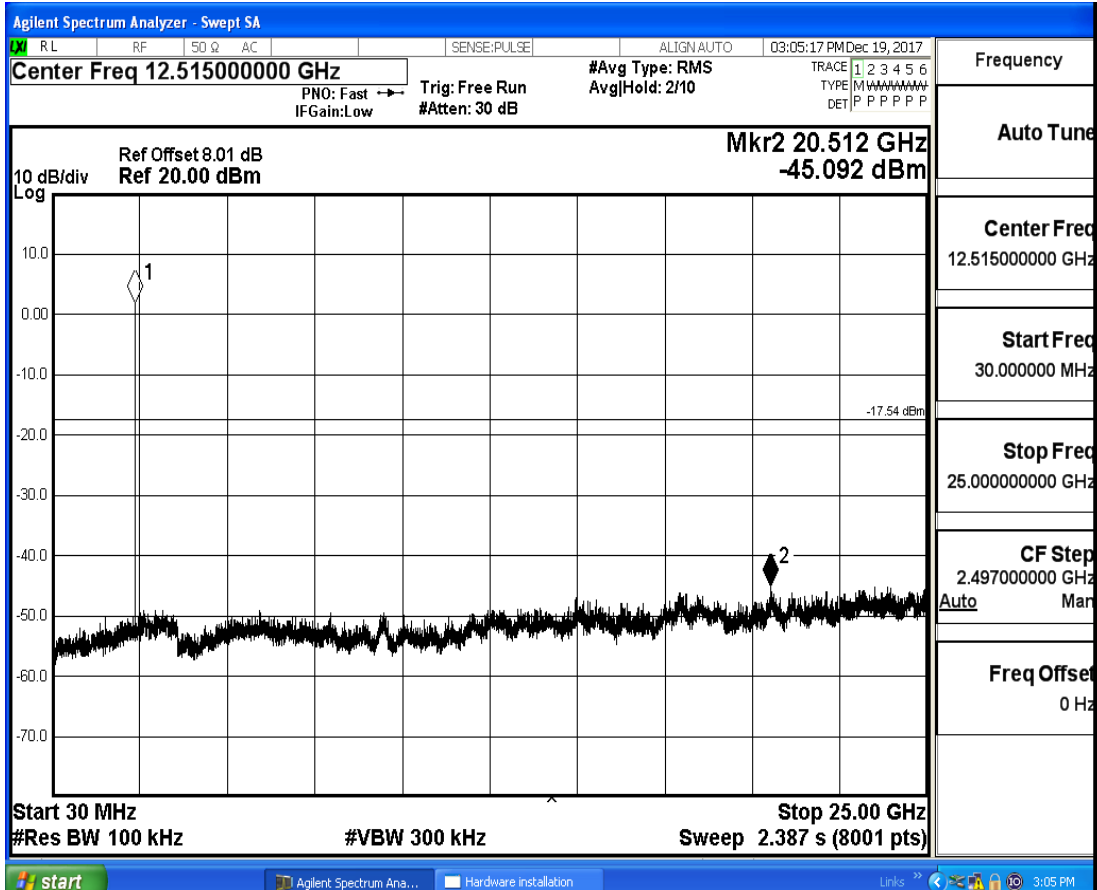
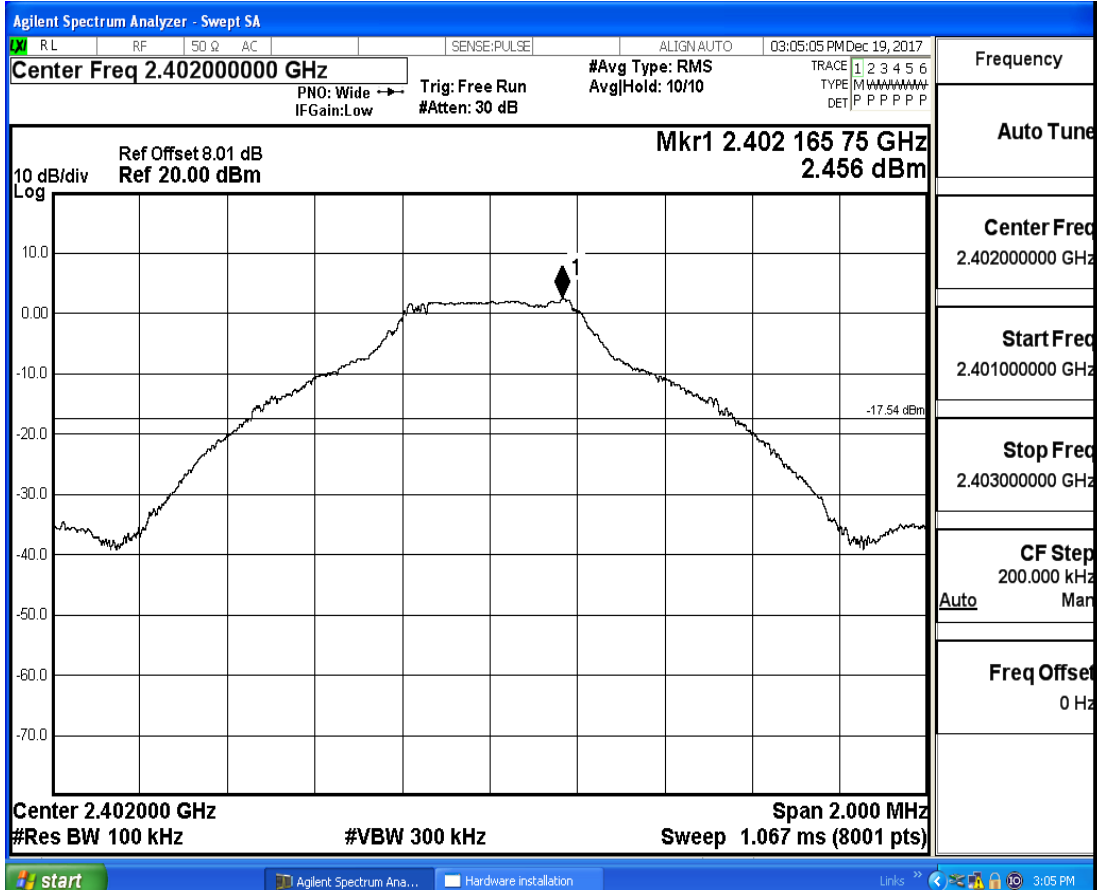
CF Step
2.200000 MHz

Freq Offset
0 Hz

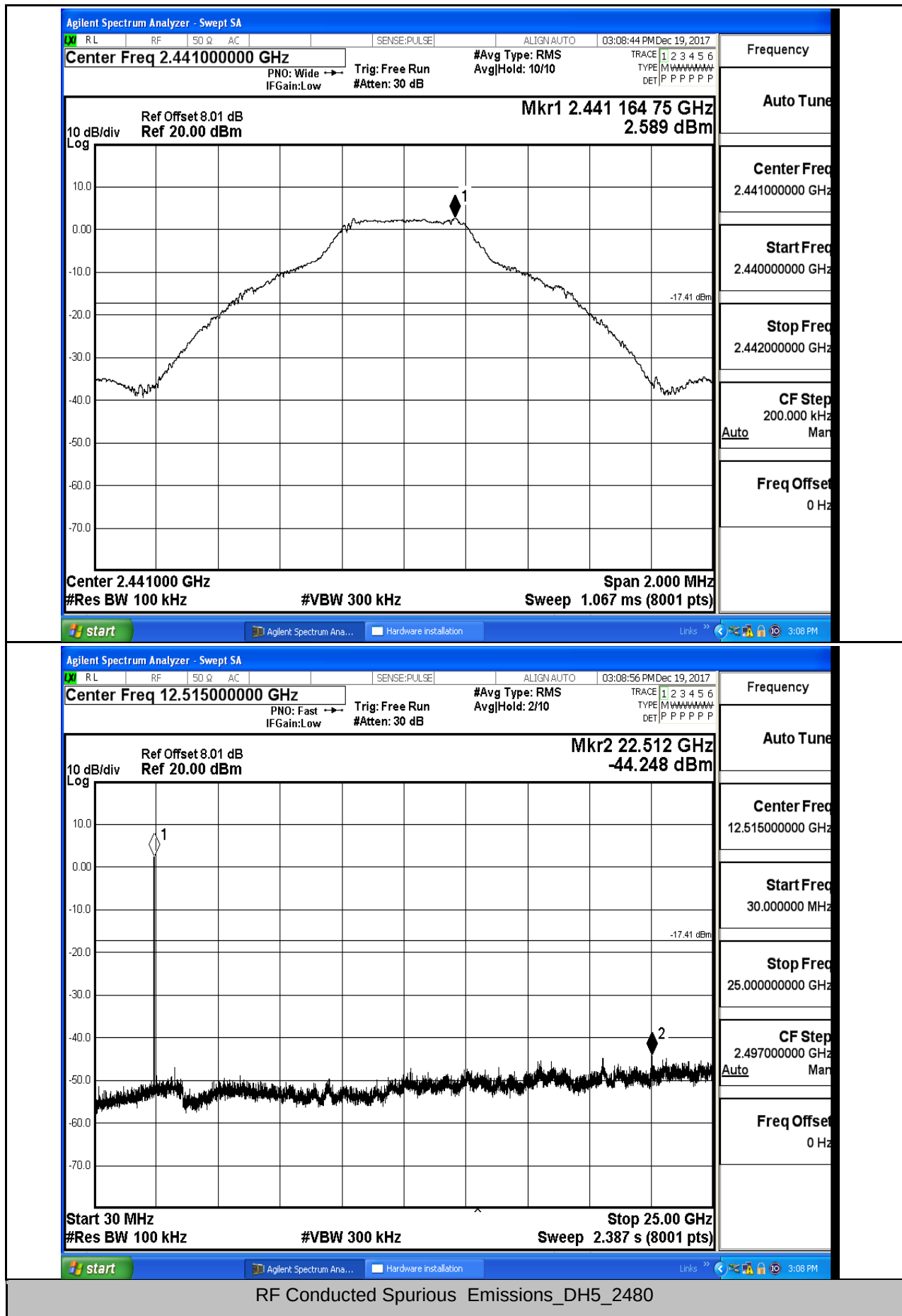
8.RF Conducted Spurious Emissions

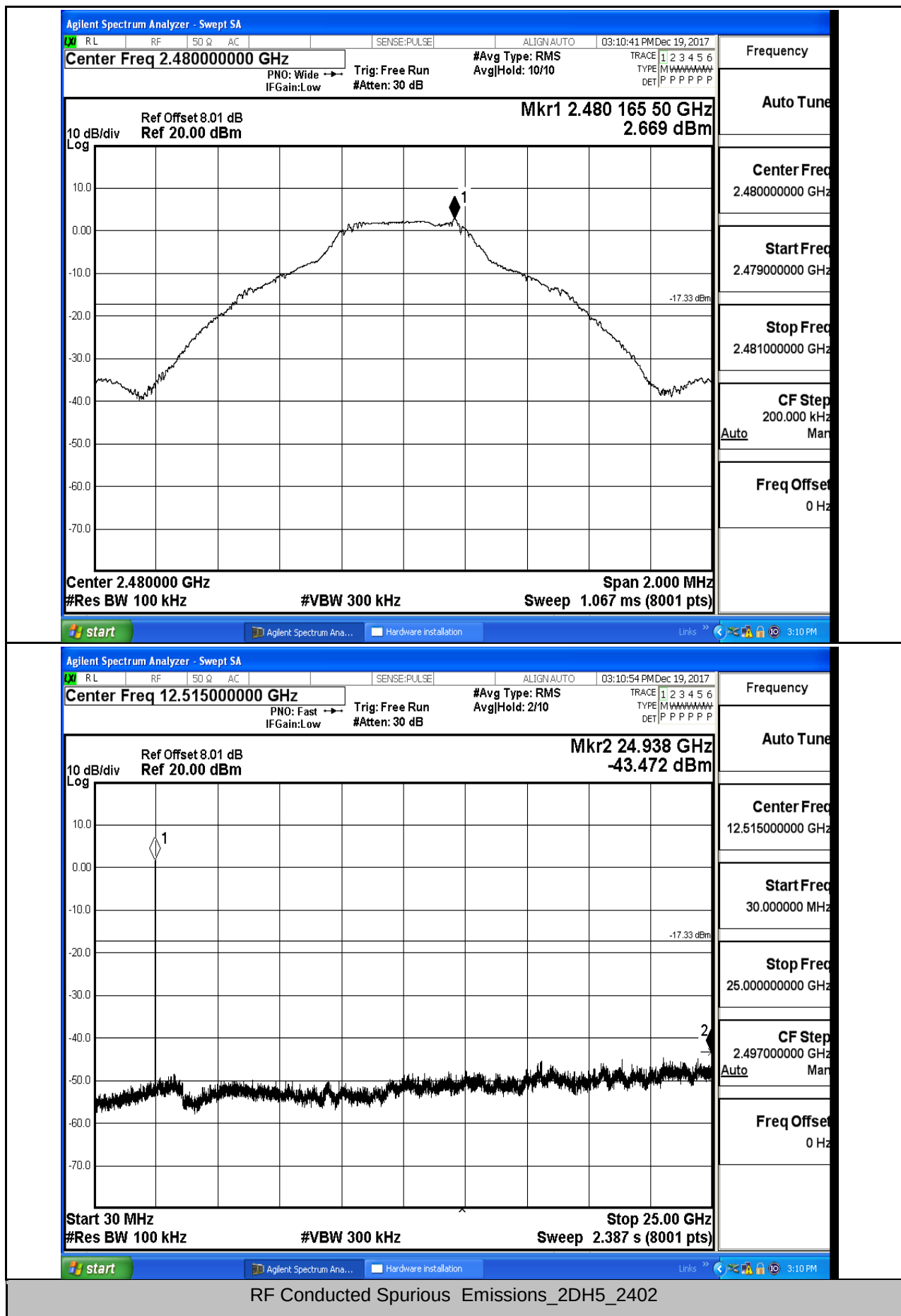
Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
DH5	2402	30	25000	100	300	2.456	-45.092	<-17.544	PASS
DH5	2441	30	25000	100	300	2.589	-44.248	<-17.411	PASS
DH5	2480	30	25000	100	300	2.669	-43.472	<-17.331	PASS
2DH5	2402	30	25000	100	300	1.567	-45.109	<-18.433	PASS
2DH5	2441	30	25000	100	300	1.8	-44.805	<-18.2	PASS
2DH5	2480	30	25000	100	300	2.018	-44.840	<-17.982	PASS

RF Conducted Spurious Emissions_DH5_2402



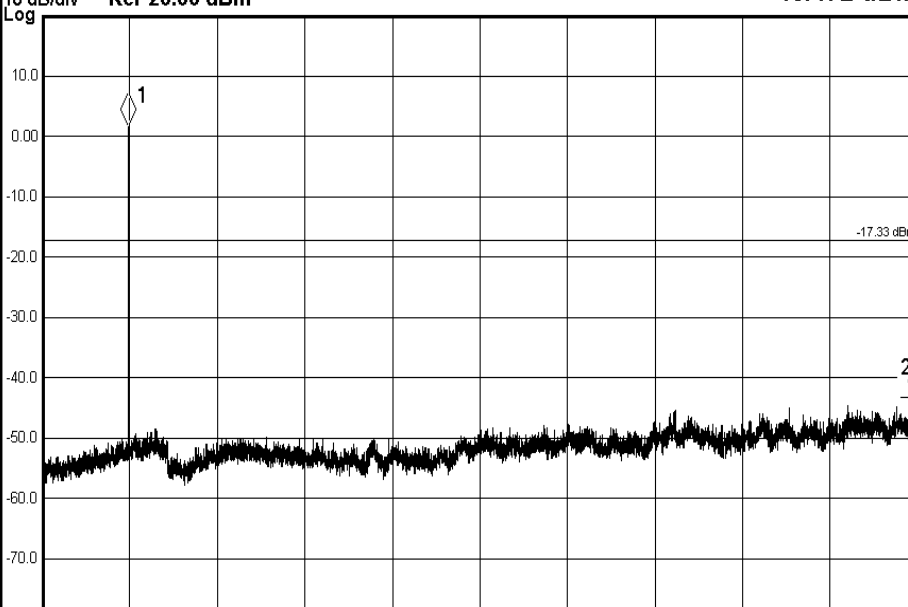
RF Conducted Spurious Emissions_DH5_2441





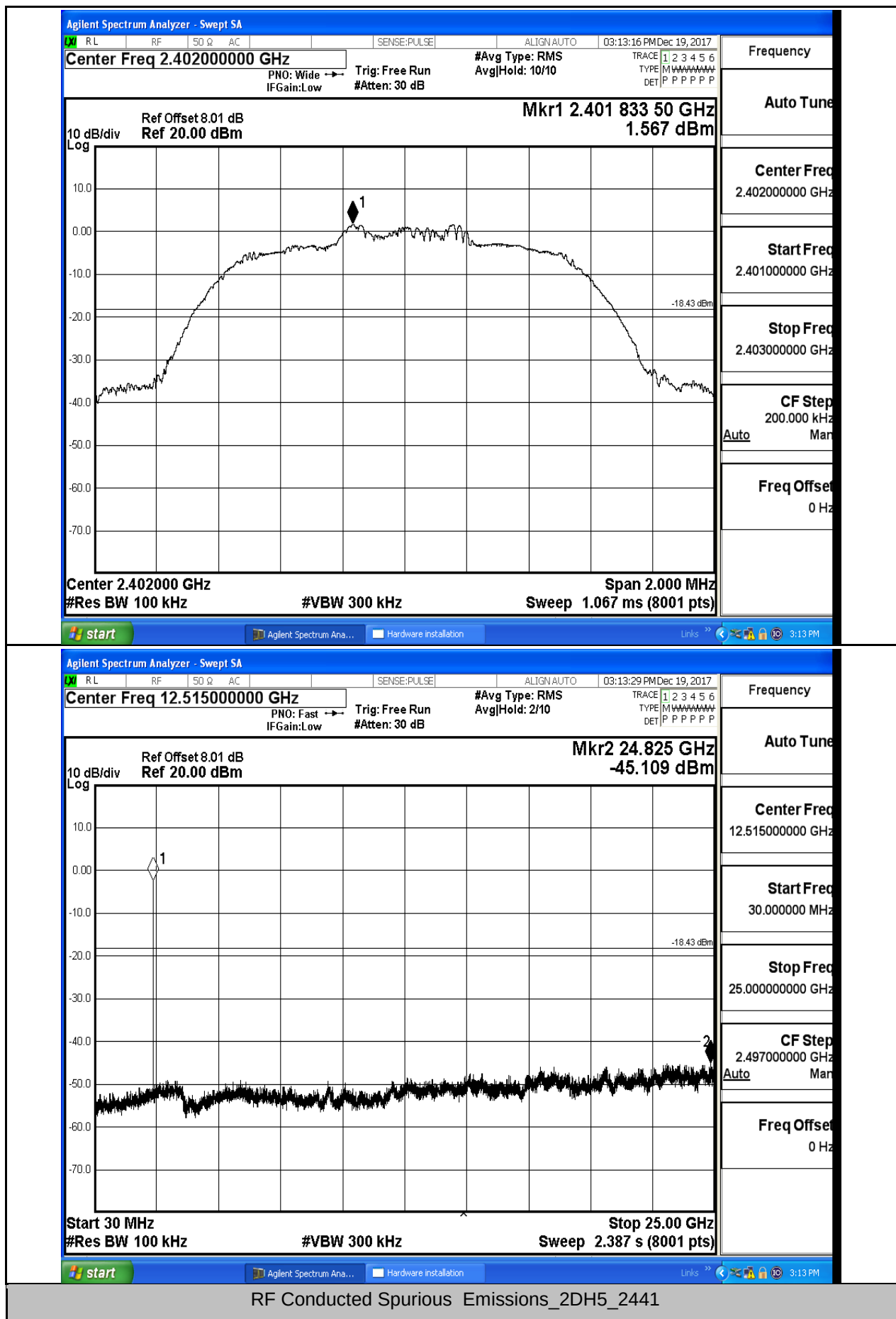
Agilent Spectrum Analyzer - Swept SA
☒ R L ☐ RF ☐ 50 Ω ☐ AC ☐ SENSE:PULSE ☐ ALIGN:AUTO 03:10:54 PM Dec 19, 2017
Center Freq 12.51500000 GHz **#Avg Type: RMS** **AvgHold: 2/10** **TRACE 1 2 3 4 5 6**
PNO: Fast $\rightarrow$ Trig: Free Run **TYPE M W W W W W W W**
IFGain: Low #Atten: 30 dB **DET P P P P P P**

Frequency
Auto Tune
Center Freq 12.51500000 GHz
Start Freq 30.000000 MHz
Stop Freq 25.000000000 GHz
CF Step 2.497000000 GHz
Auto Man
Freq Offset 0 Hz

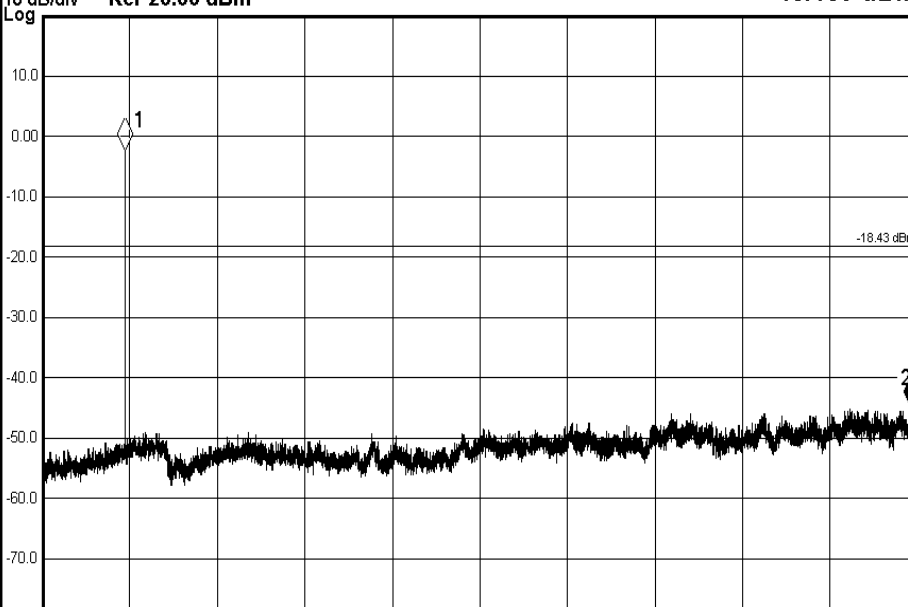
10 dB/div
Log
Ref Offset 8.01 dB
Ref 20.00 dBm
Mkr2 24.938 GHz
-43.472 dBm


Start 30 MHz **#VBW 300 kHz** **Stop 25.00 GHz**
#Res BW 100 kHz **Sweep 2.387 s (8001 pts)**

start Agilent Spectrum Ana... Hardware Installation Links 3:10 PM

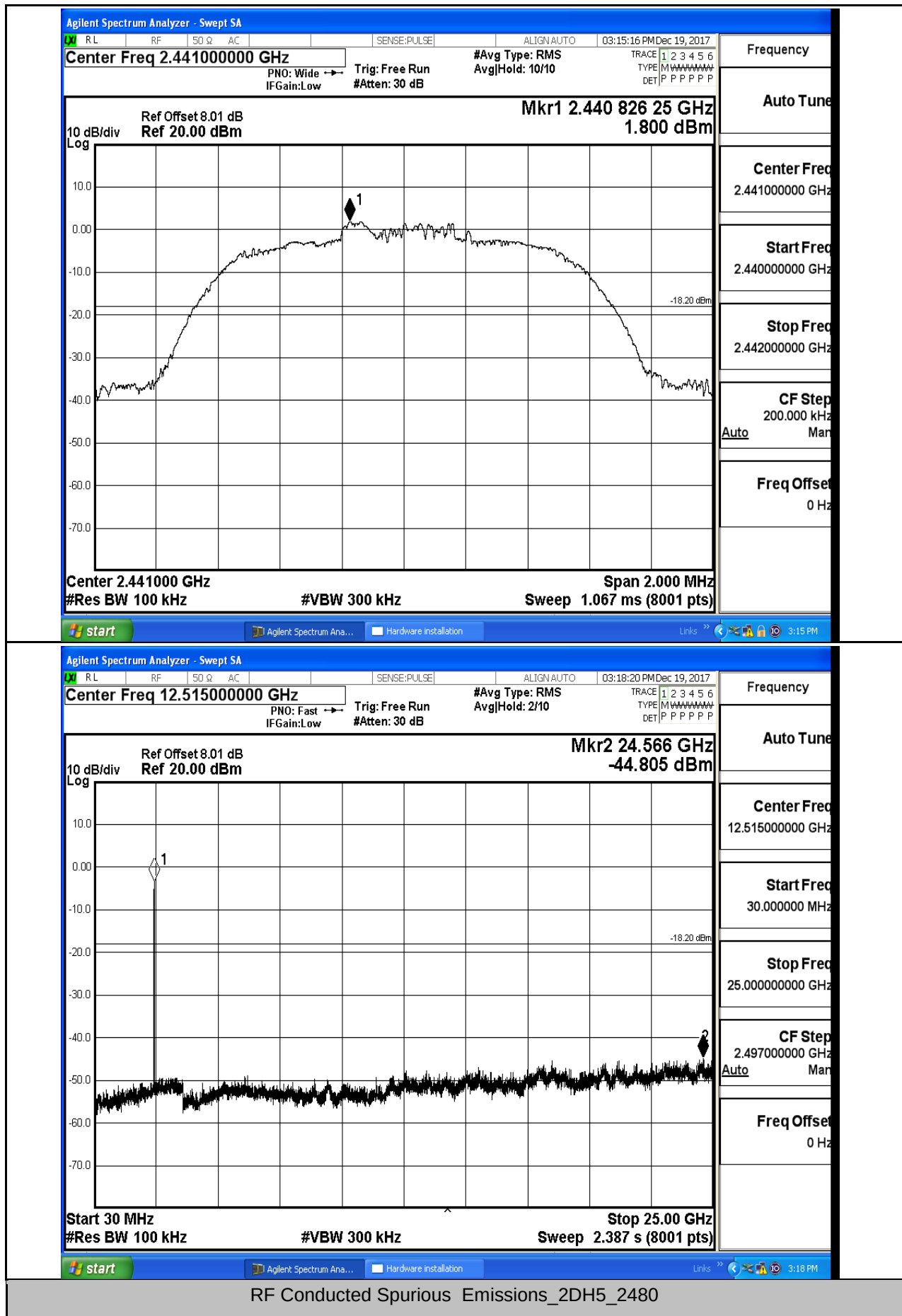


Agilent Spectrum Analyzer - Swept SA
☒ R L ☐ RF ☐ 50 Ω ☐ AC ☐ SENSE:PULSE ☐ ALIGN:AUTO 03:13:29 PM Dec 19, 2017
Center Freq 12.51500000 GHz **#Avg Type: RMS** **AvgHold: 2/10** **Trig: Free Run** **#Atten: 30 dB** **PNO: Fast** **IFGain: Low** **TYPE: M W W W W W W W W W** **DET: P P P P P P P P**

Ref Offset 8.01 dB **Ref 20.00 dBm** **Mkr2 24.825 GHz** **-45.109 dBm**
10 dB/div
Log

Start 30 MHz **#Res BW 100 kHz** **#VBW 300 kHz** **Stop 25.00 GHz** **Sweep 2.387 s (8001 pts)**

start Agilent Spectrum Ana... Hardware Installation Links 3:13 PM

Frequency
Auto Tune
Center Freq
12.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
25.000000000 GHz
CF Step
2.497000000 GHz
Auto Man
Freq Offset
0 Hz



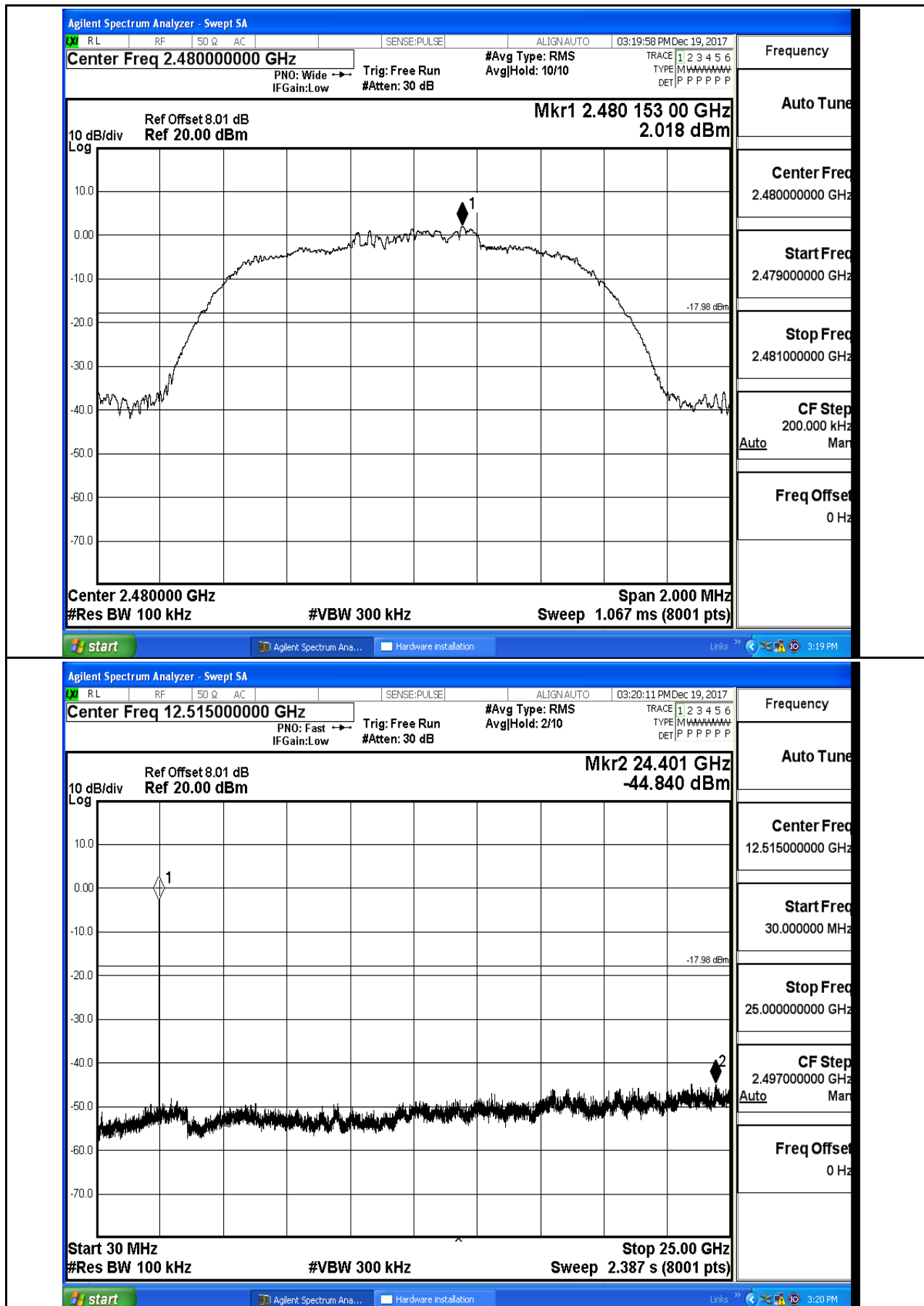
Agilent Spectrum Analyzer - Swept SA
☒ R L ☐ RF ☐ 50 Ω ☐ AC ☐ SENSE:PULSE ☐ ALIGN:AUTO 03:18:20 PM Dec 19, 2017
Center Freq 12.515000000 GHz
PNO: Fast $\rightarrow$ Trig: Free Run #Avg Type: RMS
IFGain:Low #Atten: 30 dB AvgHold: 2/10
TRACE 1 2 3 4 5 6
TYPE M W W W W W W W
DET P P P P P P P

Frequency
Auto Tune
Center Freq
12.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
25.000000000 GHz
CF Step
2.497000000 GHz
Auto Man
Freq Offset
0 Hz

10 dB/div
Log
Ref Offset 8.01 dB
Ref 20.00 dBm
Mkr2 24.566 GHz
-44.805 dBm
-18.20 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.00 GHz
Sweep 2.387 s (8001 pts)

start Agilent Spectrum Ana... Hardware Installation Links 3:18 PM

RF Conducted Spurious Emissions_2DH5_2480

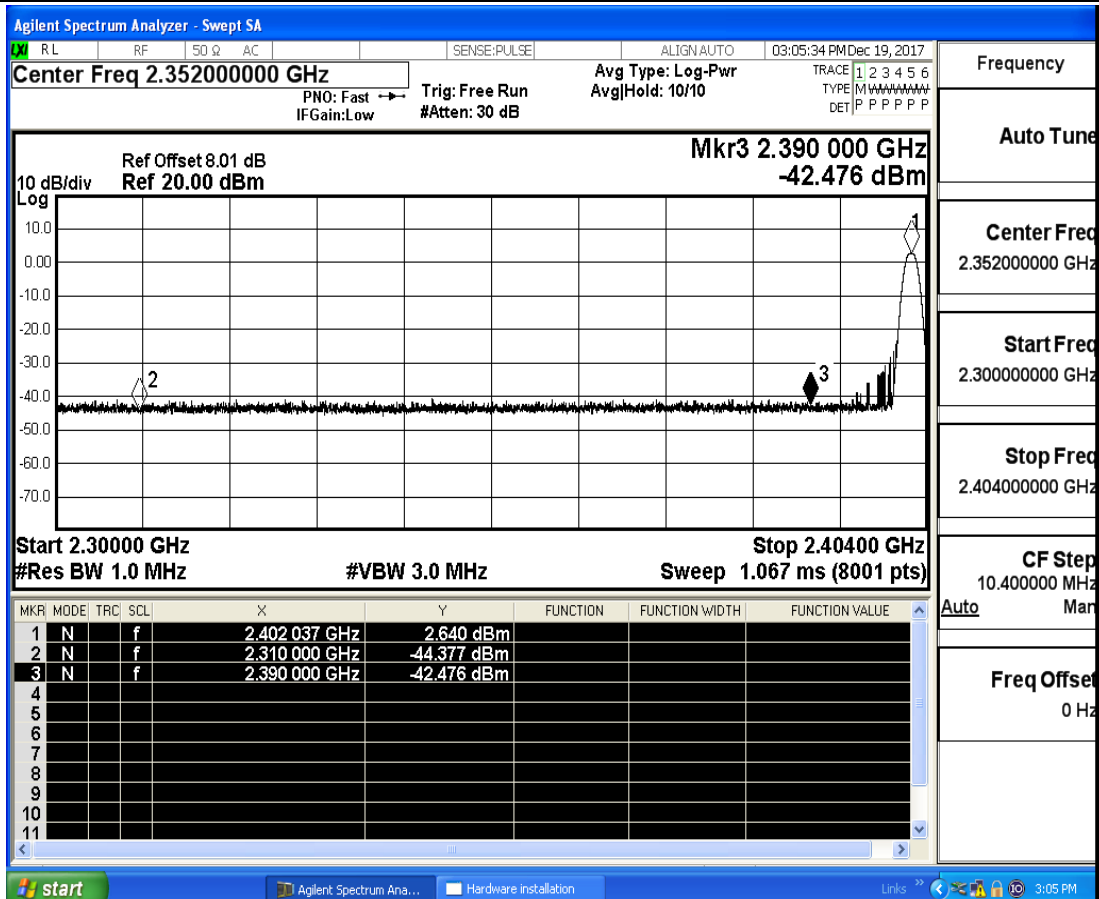


9.Restrict-band band-edge measurements

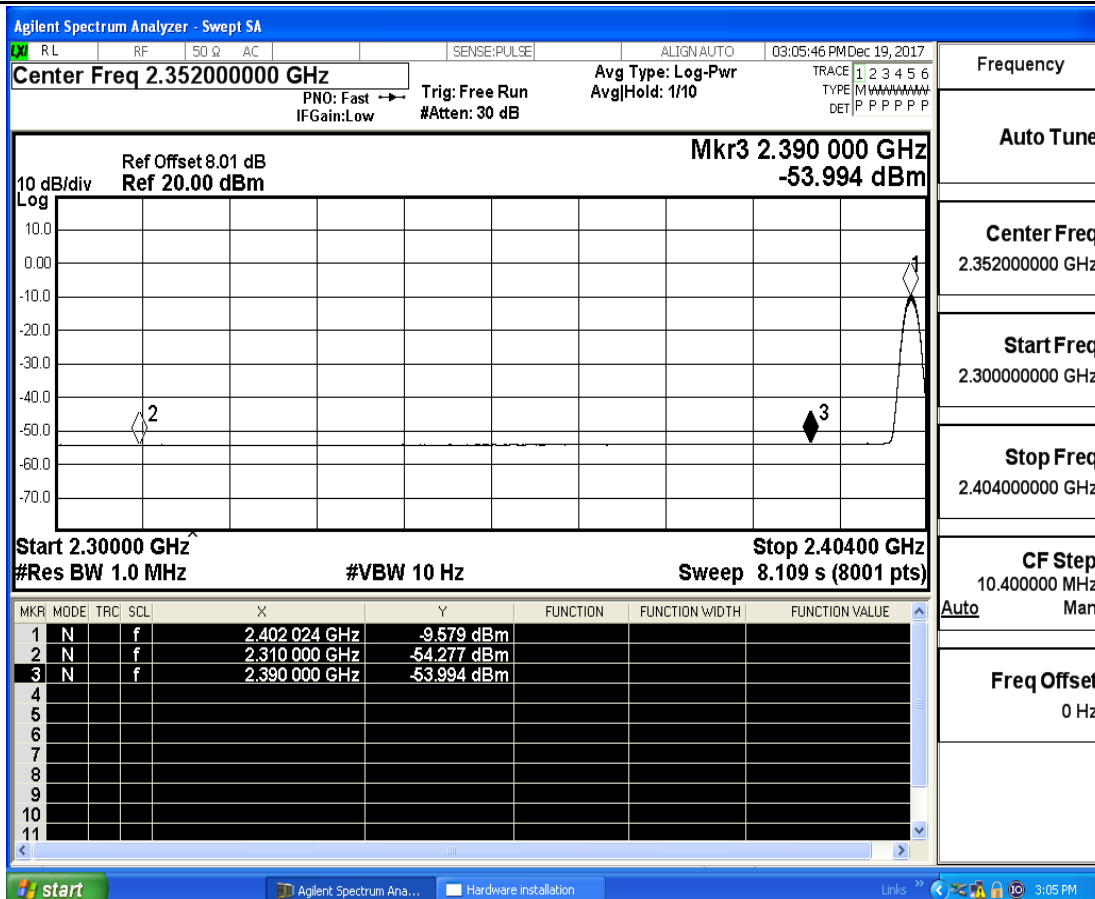
Test	Hopping	Freq.	Power	Gain	Ground	E	Detector	Limit	Verdict
------	---------	-------	-------	------	--------	---	----------	-------	---------

Mode			[dBm]		Factor	[dBuV/m]		[dBuV/m]	
DH5	On	2310.0	-44.38	2	0	52.88	PEAK	74	PASS
DH5	On	2310.0	-54.28	2	0	42.98	AV	54	PASS
DH5	On	2390.0	-42.48	2	0	54.78	PEAK	74	PASS
DH5	On	2390.0	-53.99	2	0	43.26	AV	54	PASS
DH5	On	2483.5	-35.51	2	0	61.75	PEAK	74	PASS
DH5	On	2483.5	-53.69	2	0	43.57	AV	54	PASS
DH5	On	2500.0	-43.56	2	0	53.70	PEAK	74	PASS
DH5	On	2500.0	-53.65	2	0	43.61	AV	54	PASS
2DH5	On	2310.0	-44.31	2	0	52.94	PEAK	74	PASS
2DH5	On	2310.0	-54.27	2	0	42.98	AV	54	PASS
2DH5	On	2390.0	-43.46	2	0	53.80	PEAK	74	PASS
2DH5	On	2390.0	-54.02	2	0	43.24	AV	54	PASS
2DH5	On	2483.5	-36.30	2	0	60.96	PEAK	74	PASS
2DH5	On	2483.5	-53.66	2	0	43.59	AV	54	PASS
2DH5	On	2500.0	-42.92	2	0	54.34	PEAK	74	PASS
2DH5	On	2500.0	-53.66	2	0	43.60	AV	54	PASS

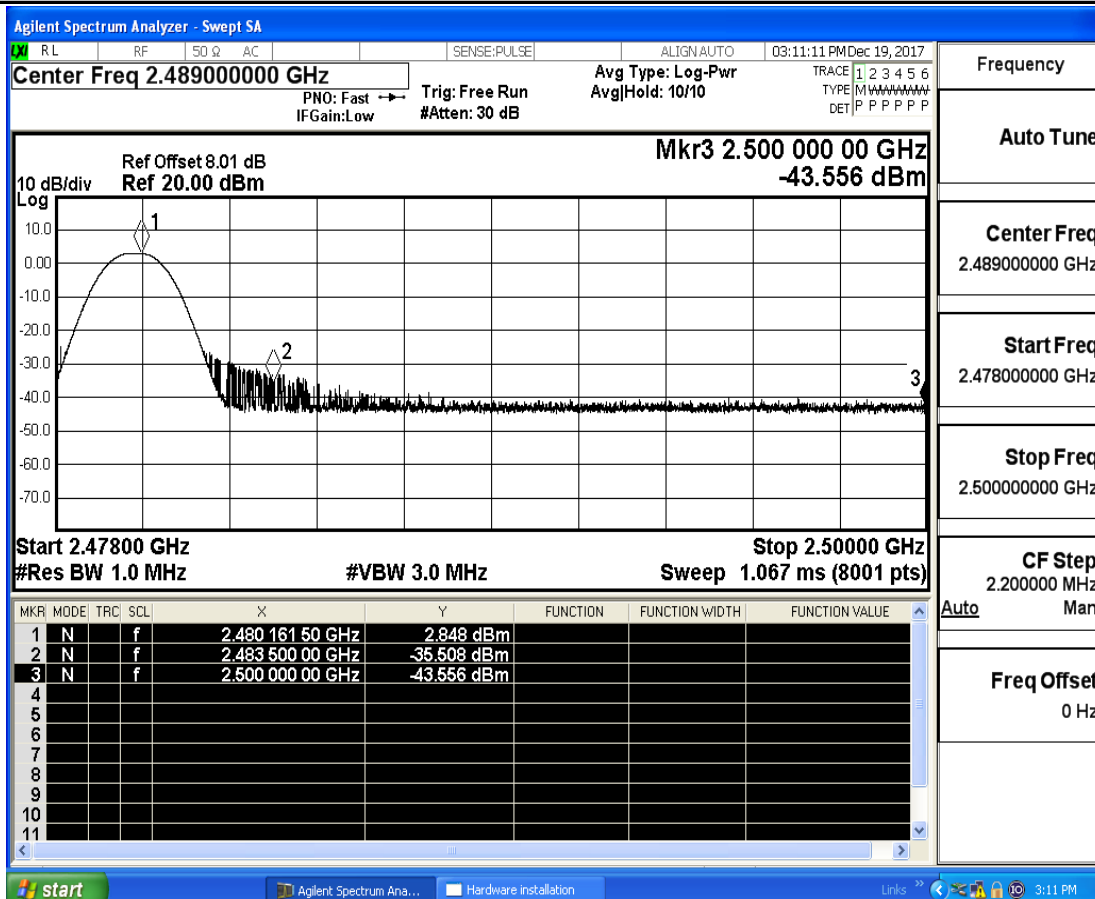
Restrict-band band-edge measurements_2402_PEA



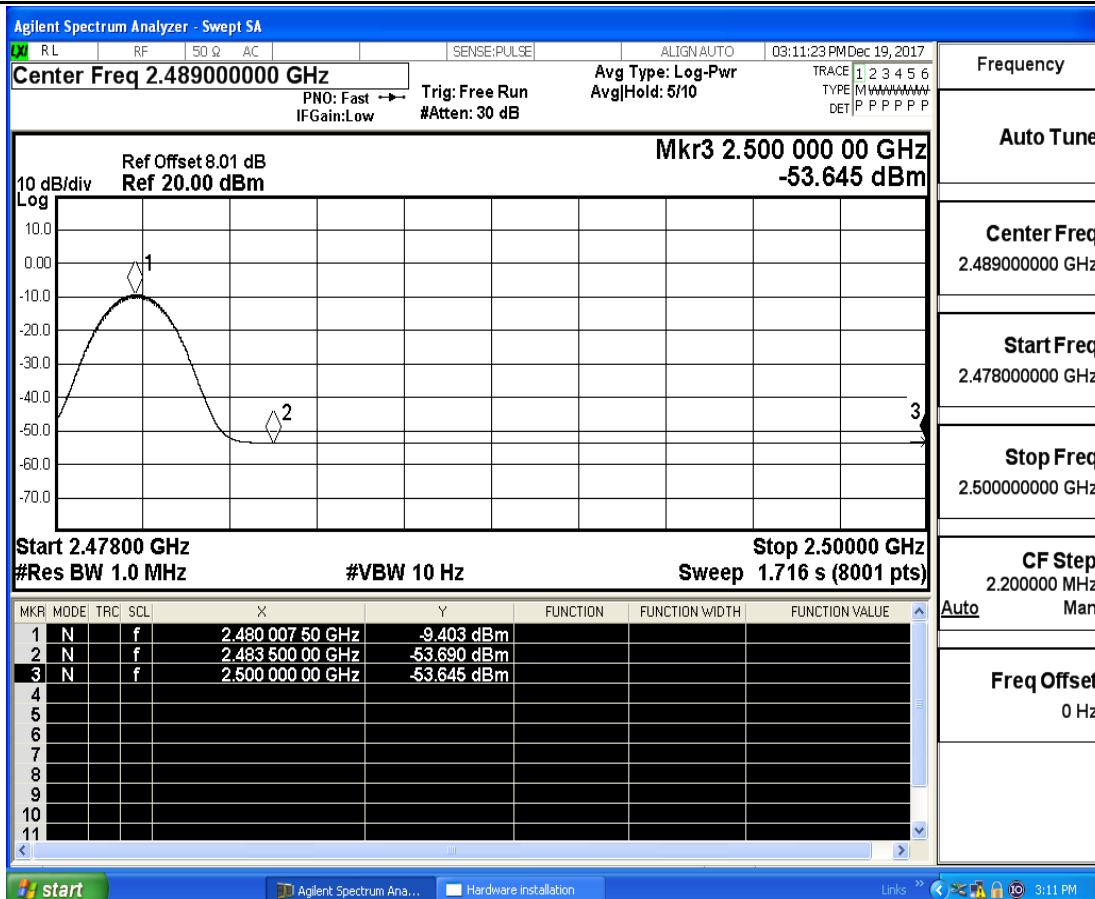
Restrict-band band-edge measurements_2402_AV



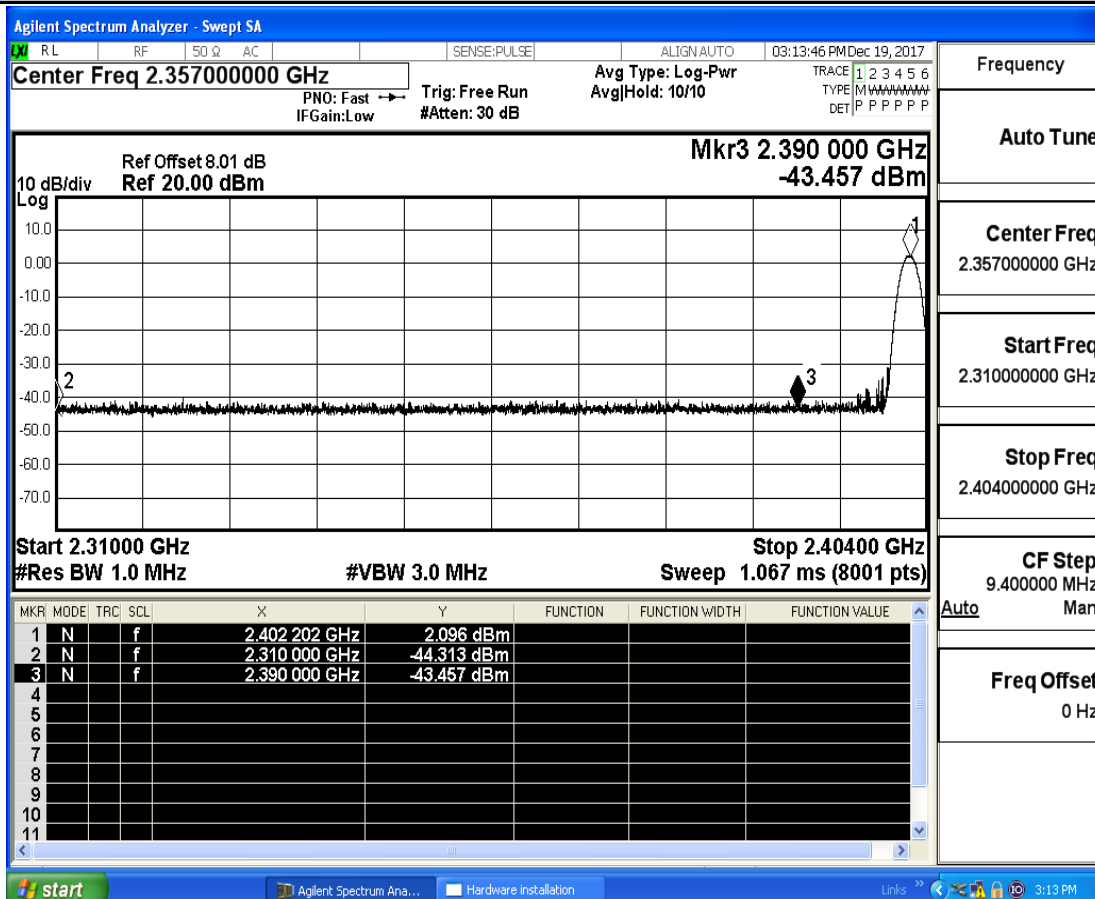
Restrict-band band-edge measurements_2480_PEAK



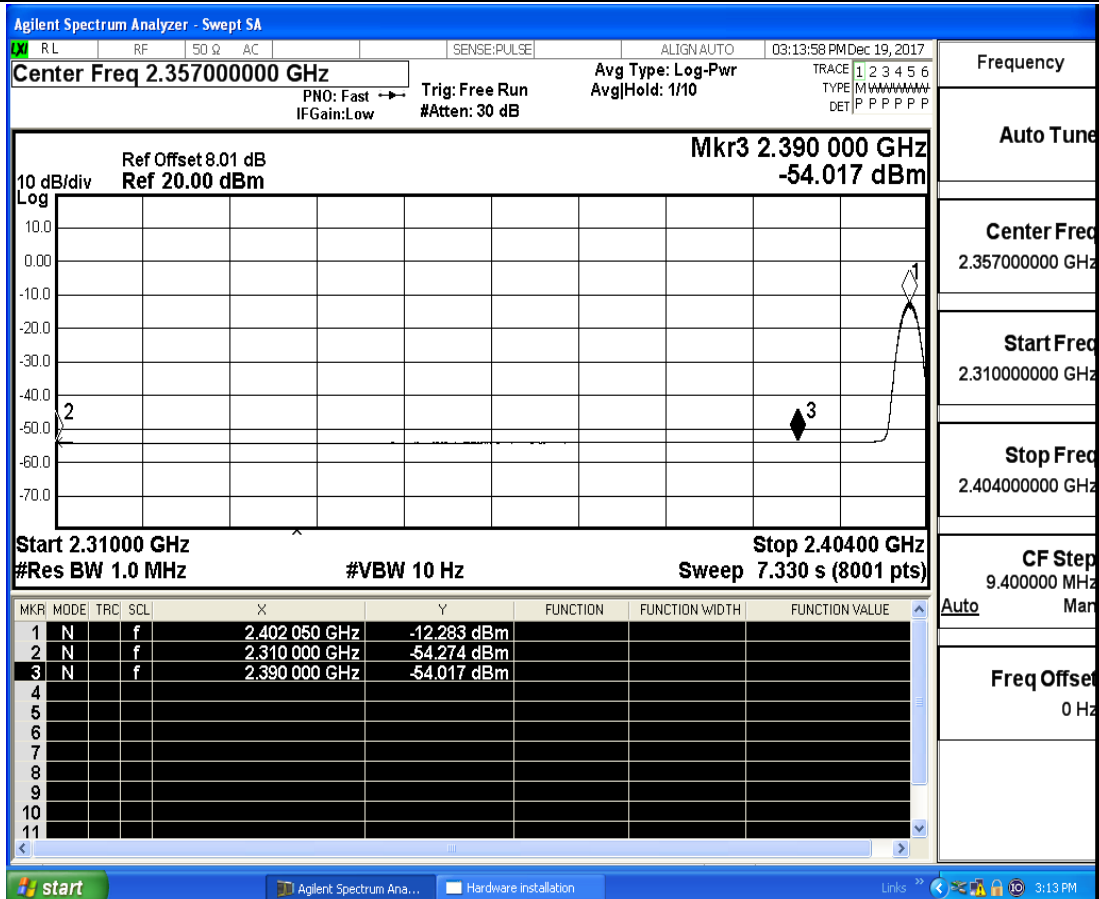
Restrict-band band-edge measurements_2480_AV



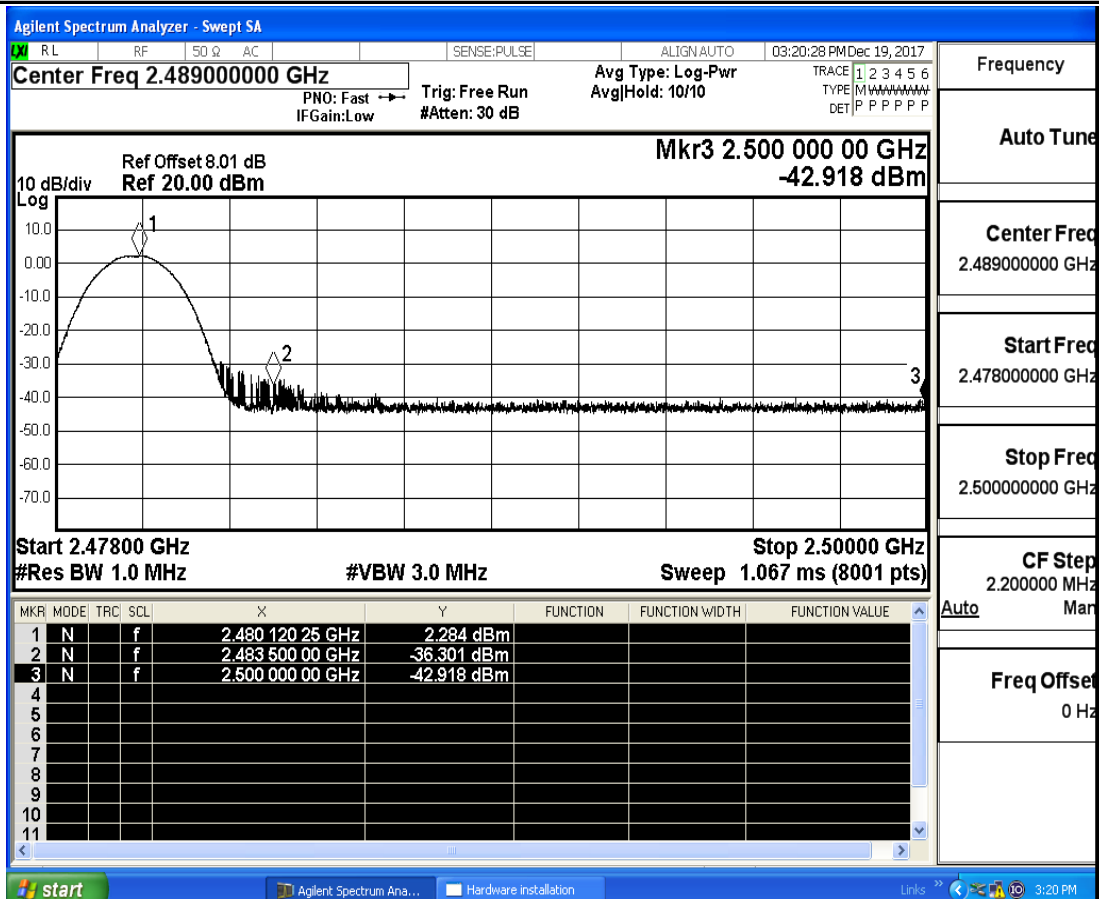
Restrict-band band-edge measurements_2402_PEAK



Restrict-band band-edge measurements_2402_AV



Restrict-band band-edge measurements_2480_PEAK



Restrict-band band-edge measurements_2480_AV

