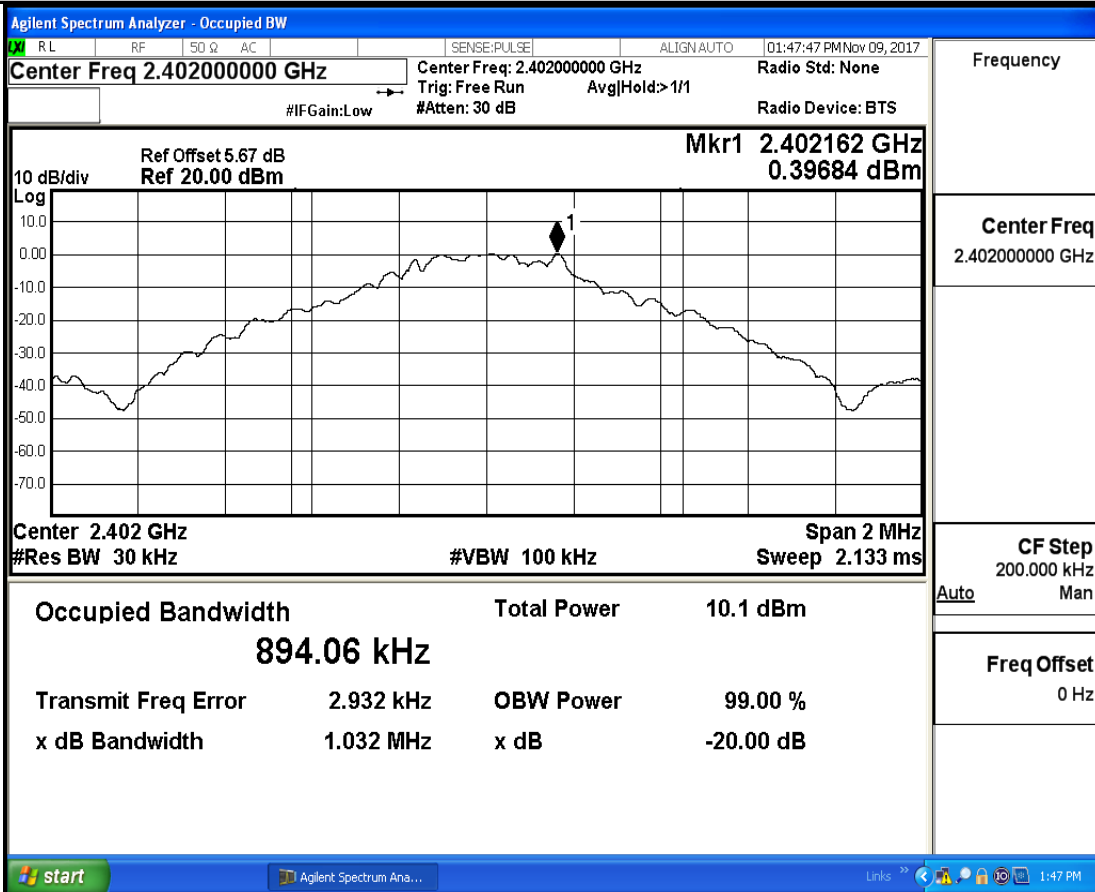


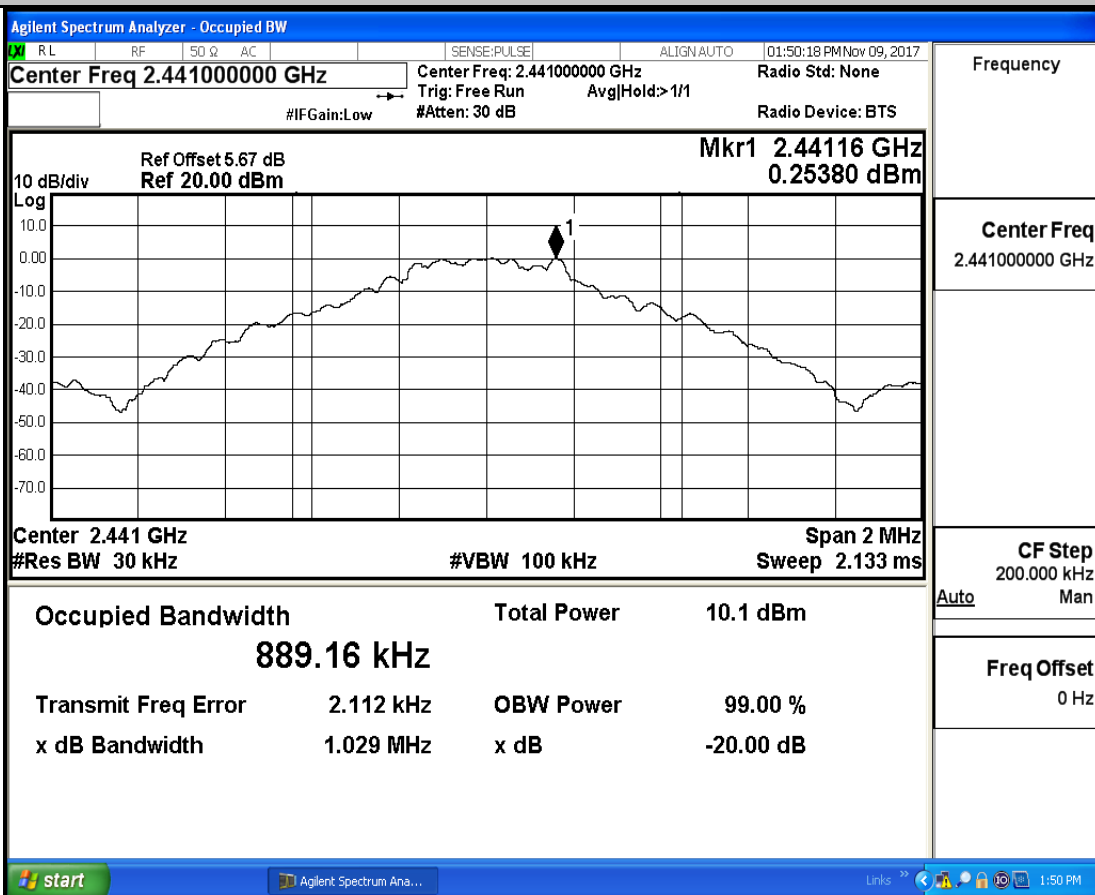
1.20 dB Bandwidth

Test Mode	Test Channel	EBW[MHz]	Limit[MHz]	Verdict
DH5	2402	1.032	---	PASS
DH5	2441	1.029	---	PASS
DH5	2480	1.031	---	PASS
2DH5	2402	1.293	---	PASS
2DH5	2441	1.296	---	PASS
2DH5	2480	1.292	---	PASS
3DH5	2402	1.296	---	PASS
3DH5	2441	1.304	---	PASS
3DH5	2480	1.300	---	PASS

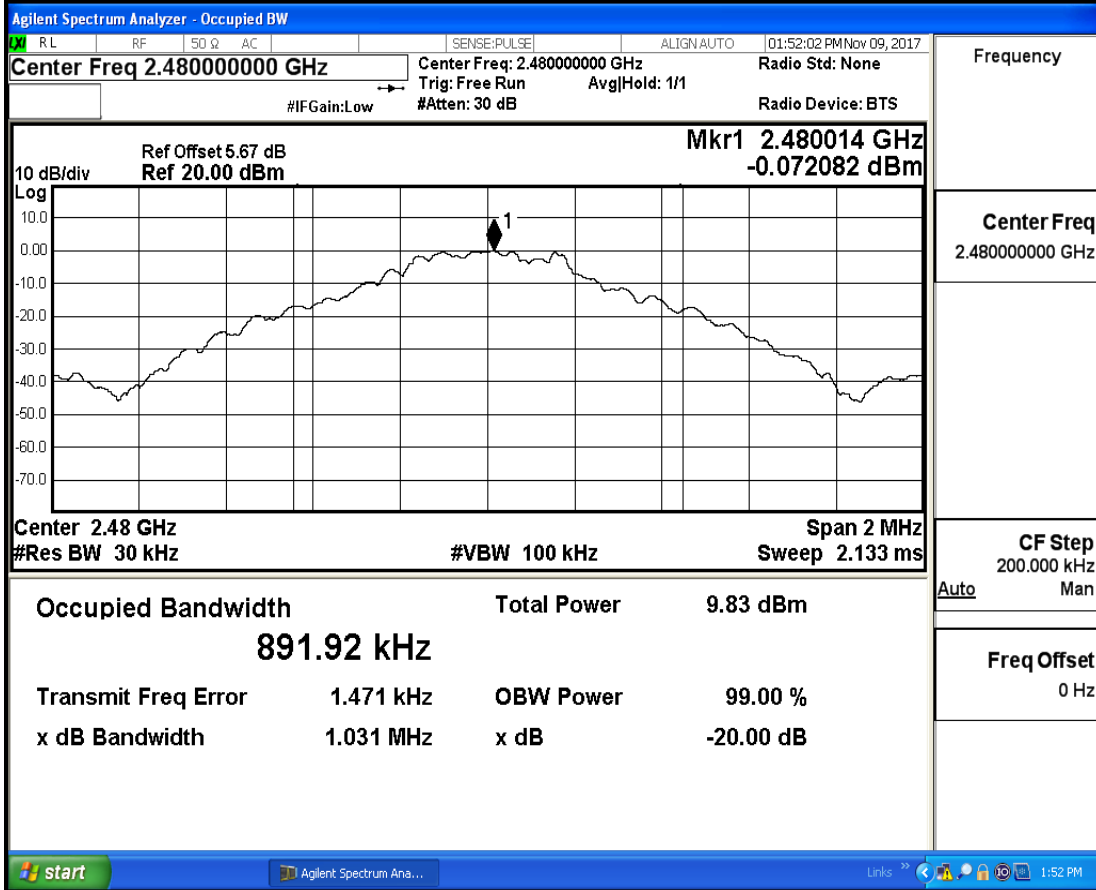
20 dB Bandwidth_DH5_2402



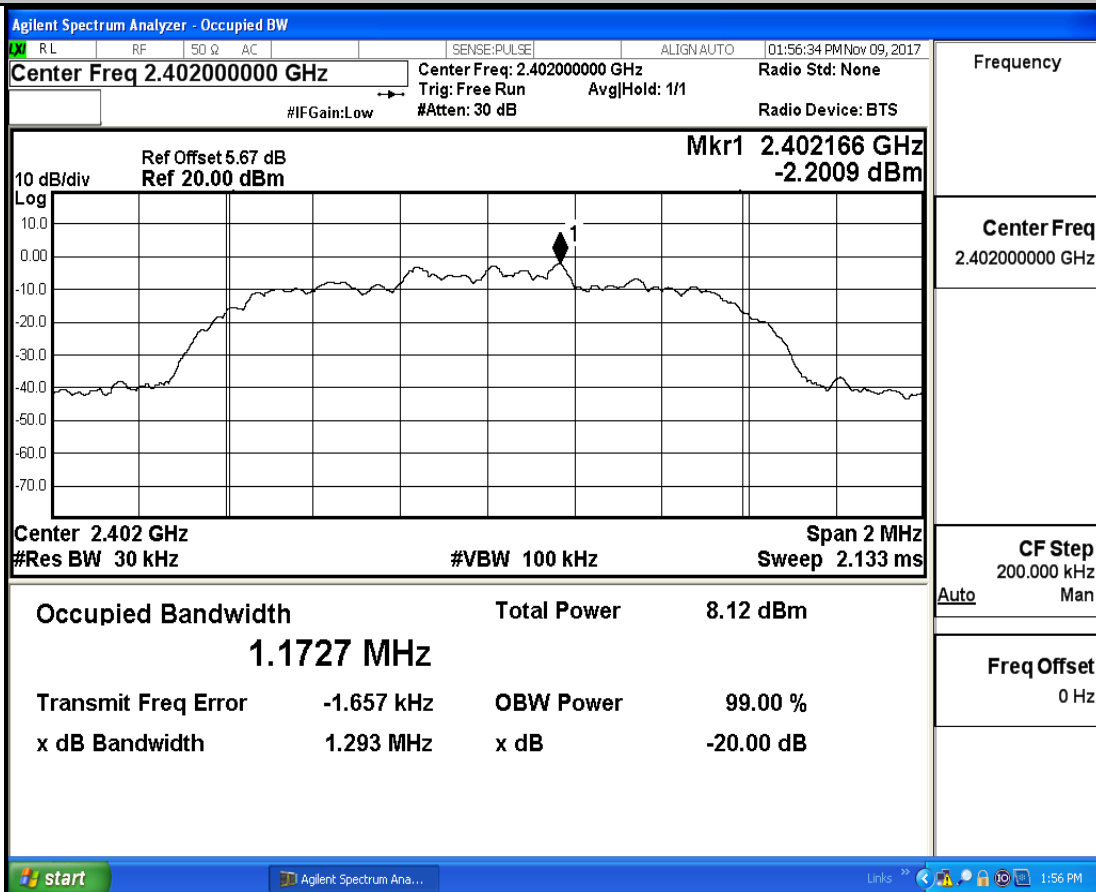
20 dB Bandwidth_DH5_2441



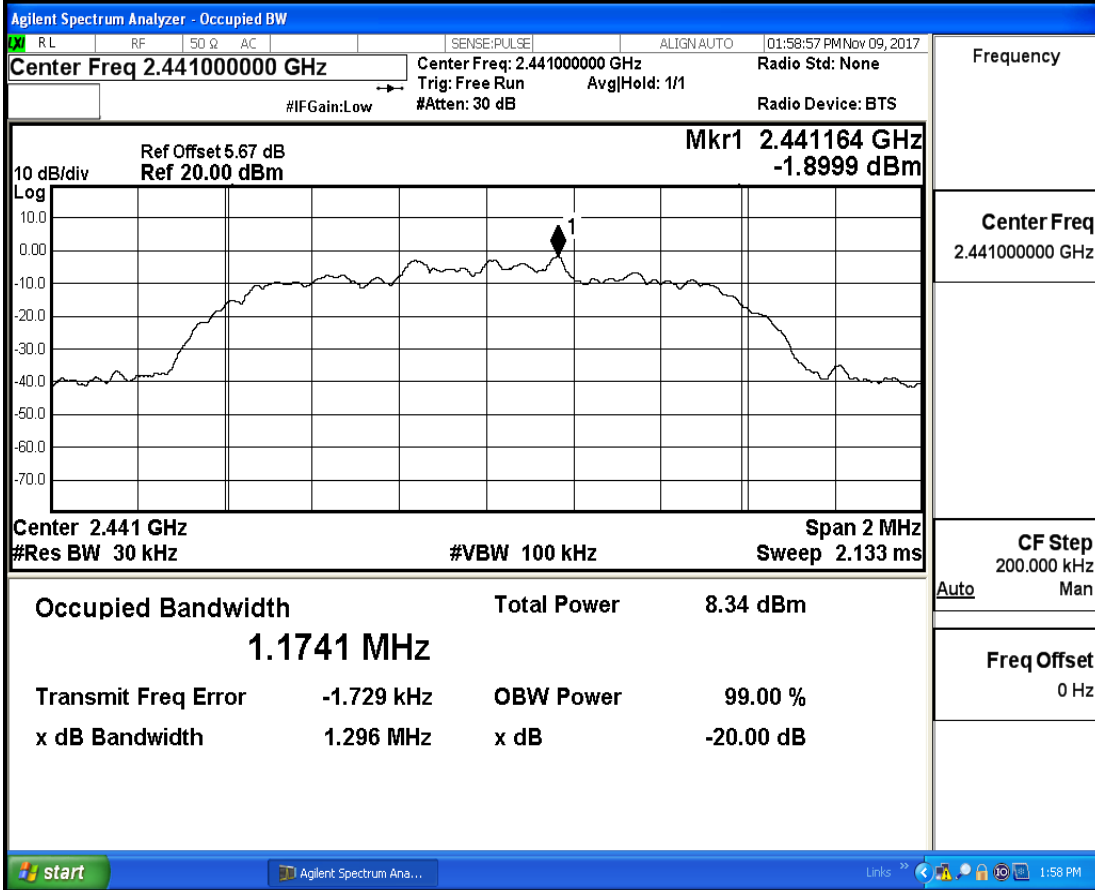
20 dB Bandwidth_DH5_2480



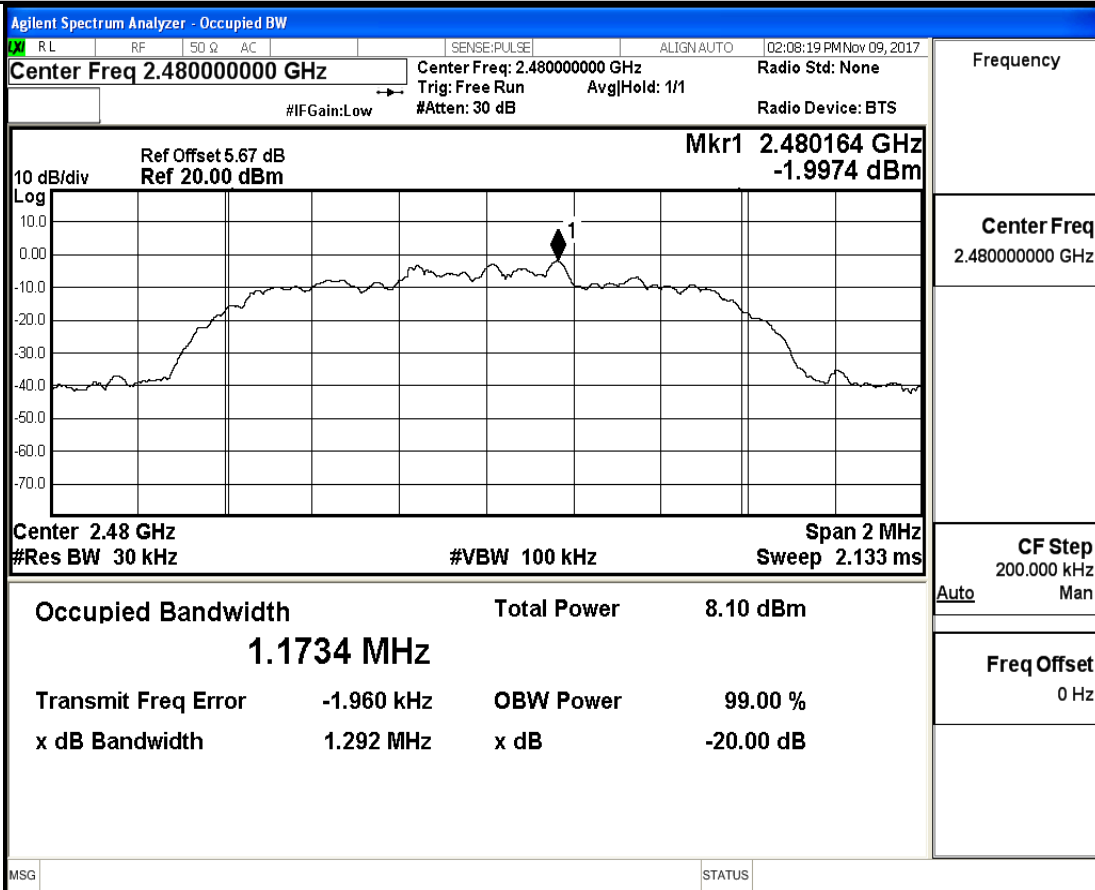
20 dB Bandwidth_2DH5_2402



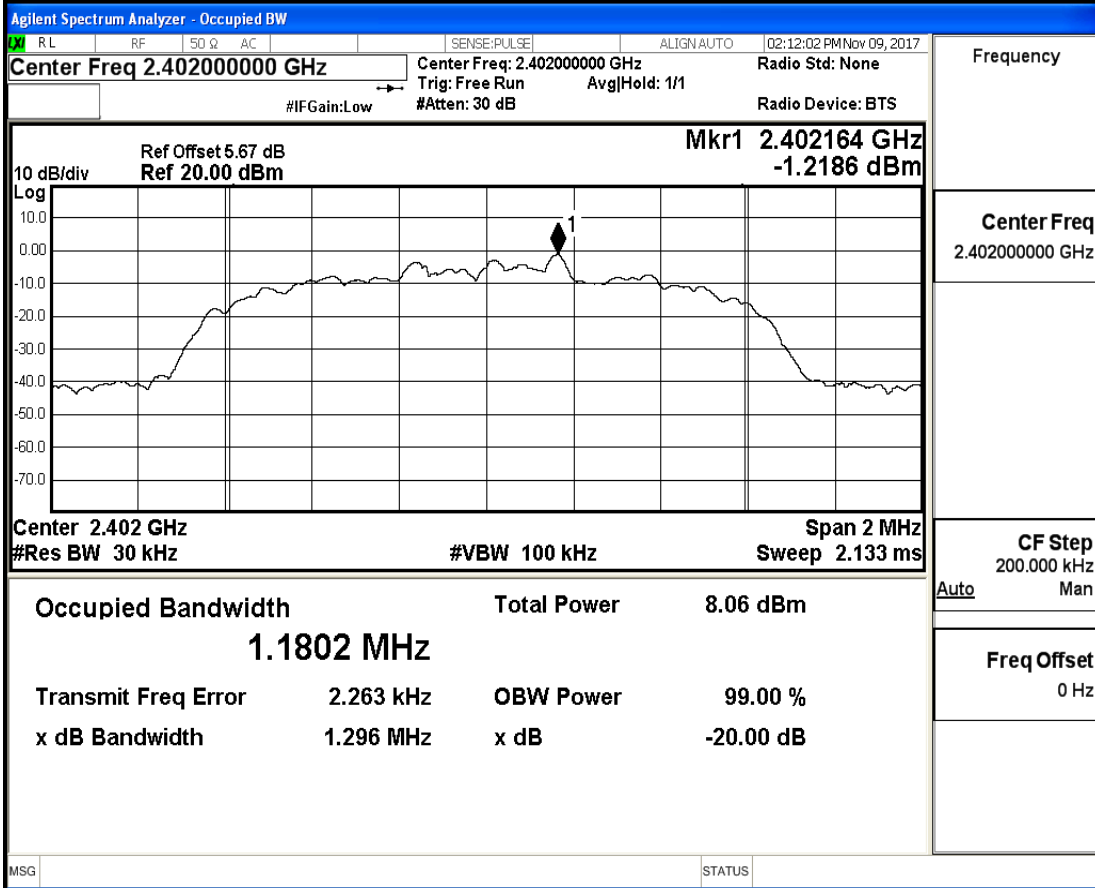
20 dB Bandwidth_2DH5_2441



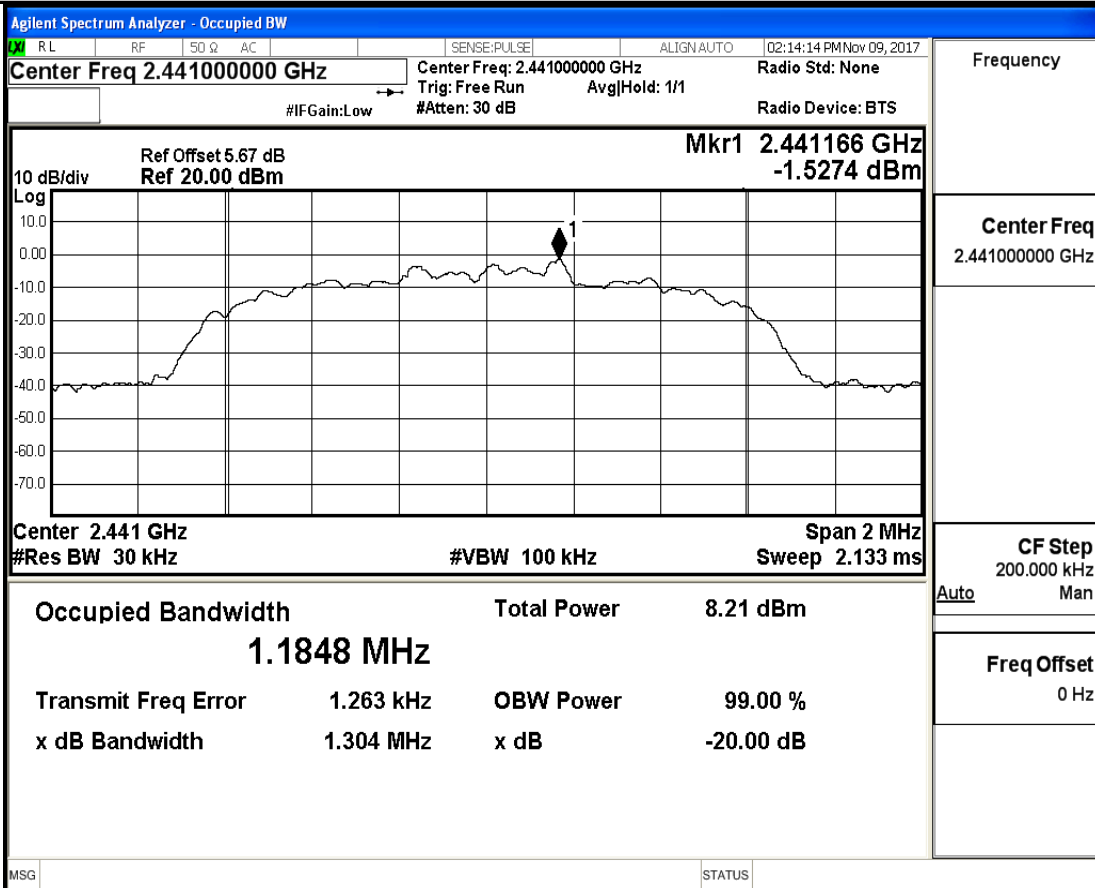
20 dB Bandwidth_2DH5_2480



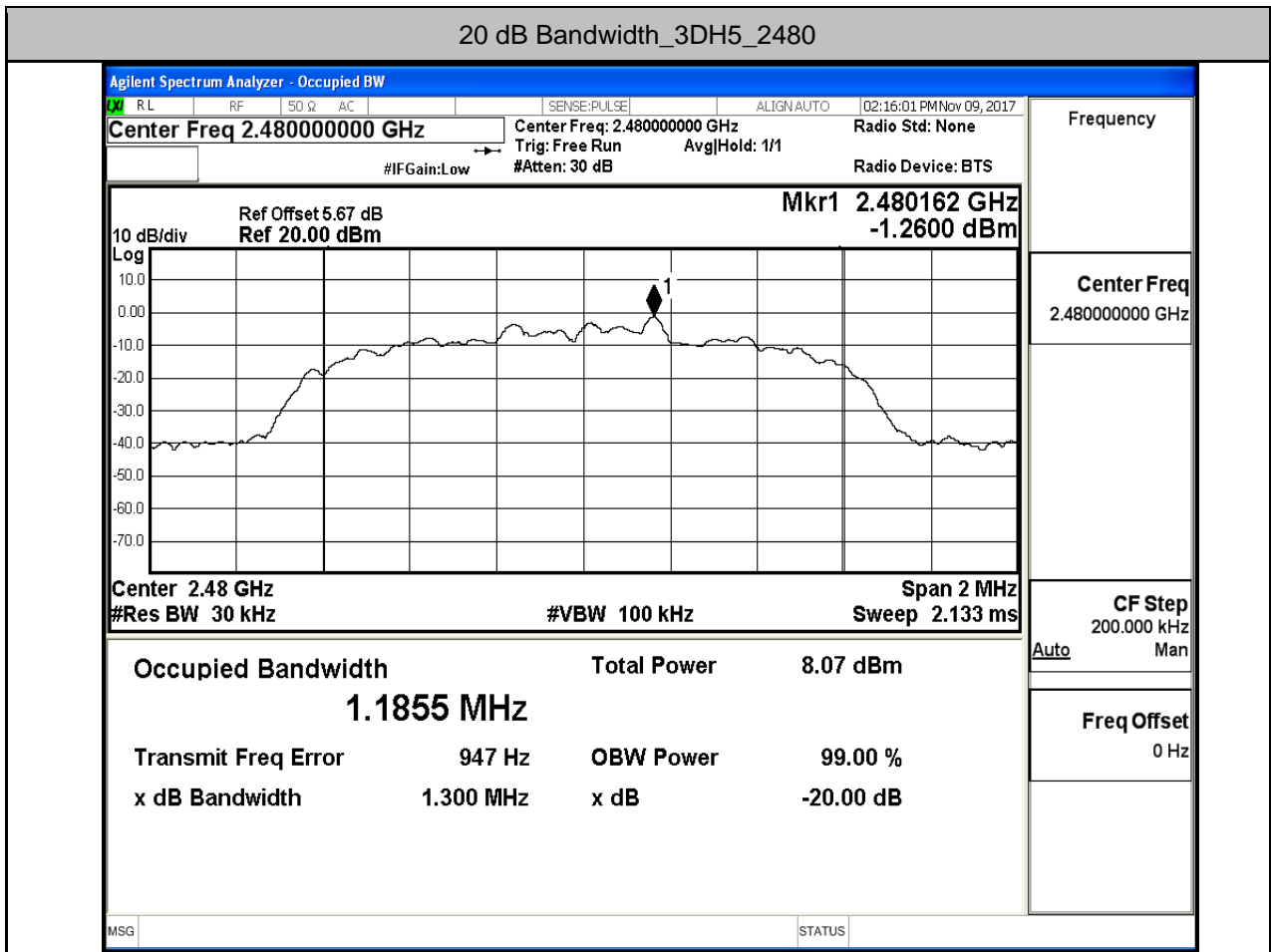
20 dB Bandwidth_3DH5_2402



20 dB Bandwidth_3DH5_2441



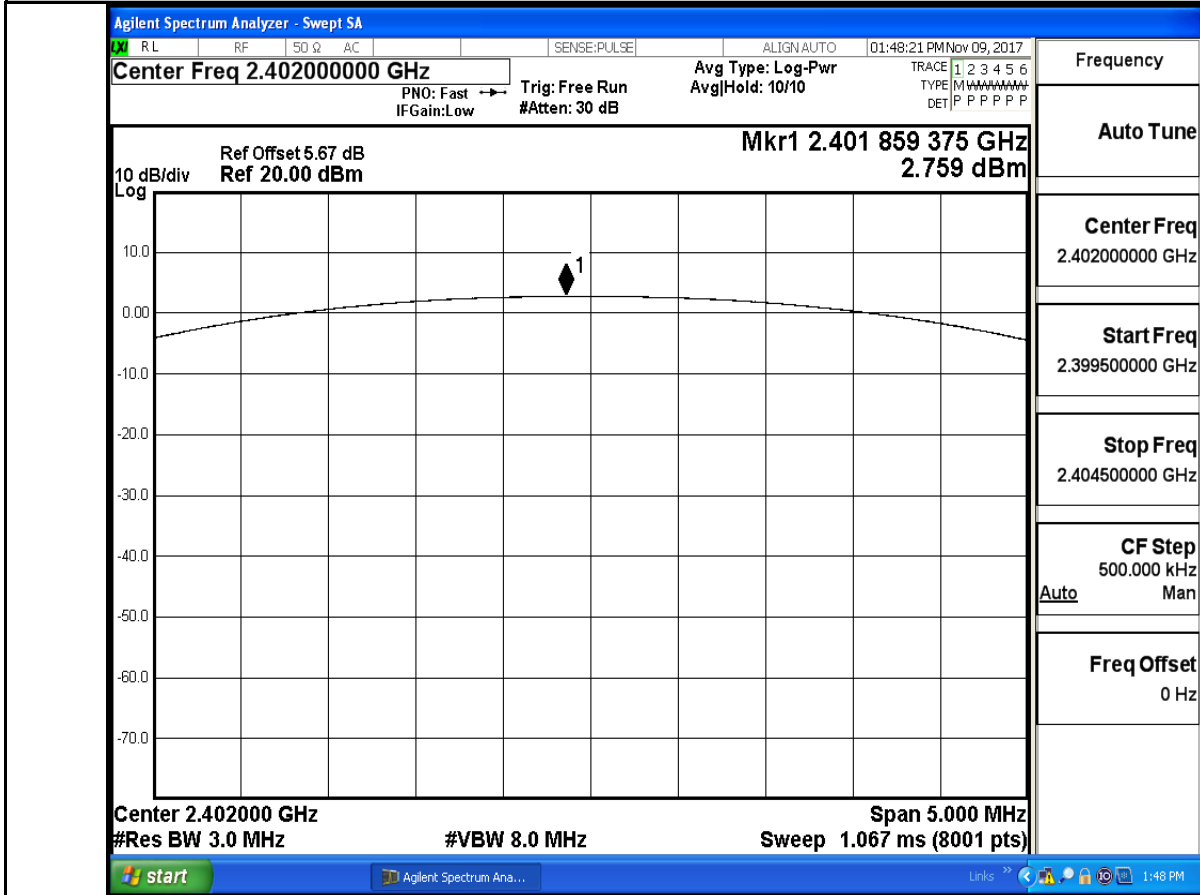
20 dB Bandwidth_3DH5_2480



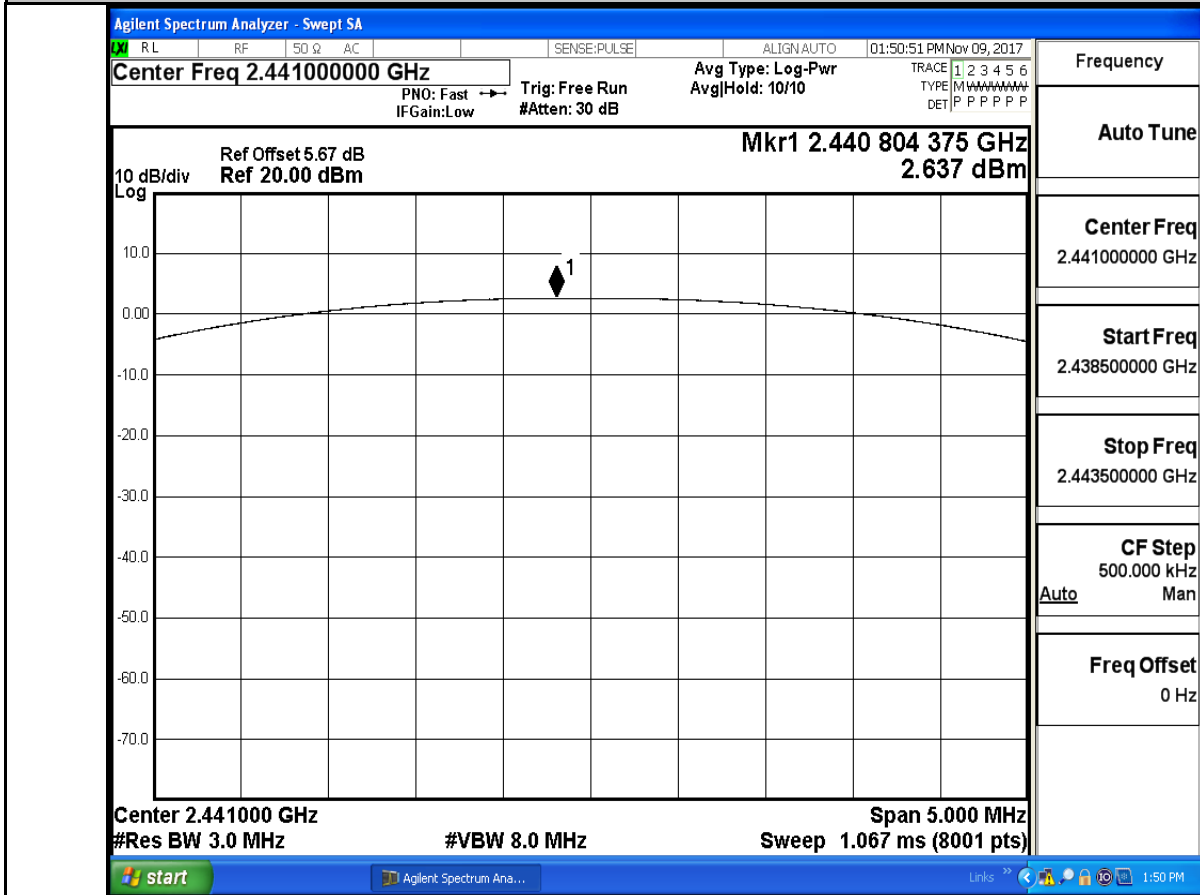
2. Conducted Peak Output Power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
DH5	2402	2.759	30	PASS
DH5	2441	2.637	30	PASS
DH5	2480	2.416	30	PASS
2DH5	2402	1.988	30	PASS
2DH5	2441	1.993	30	PASS
2DH5	2480	1.640	30	PASS
3DH5	2402	2.036	30	PASS
3DH5	2441	2.083	30	PASS
3DH5	2480	1.832	30	PASS

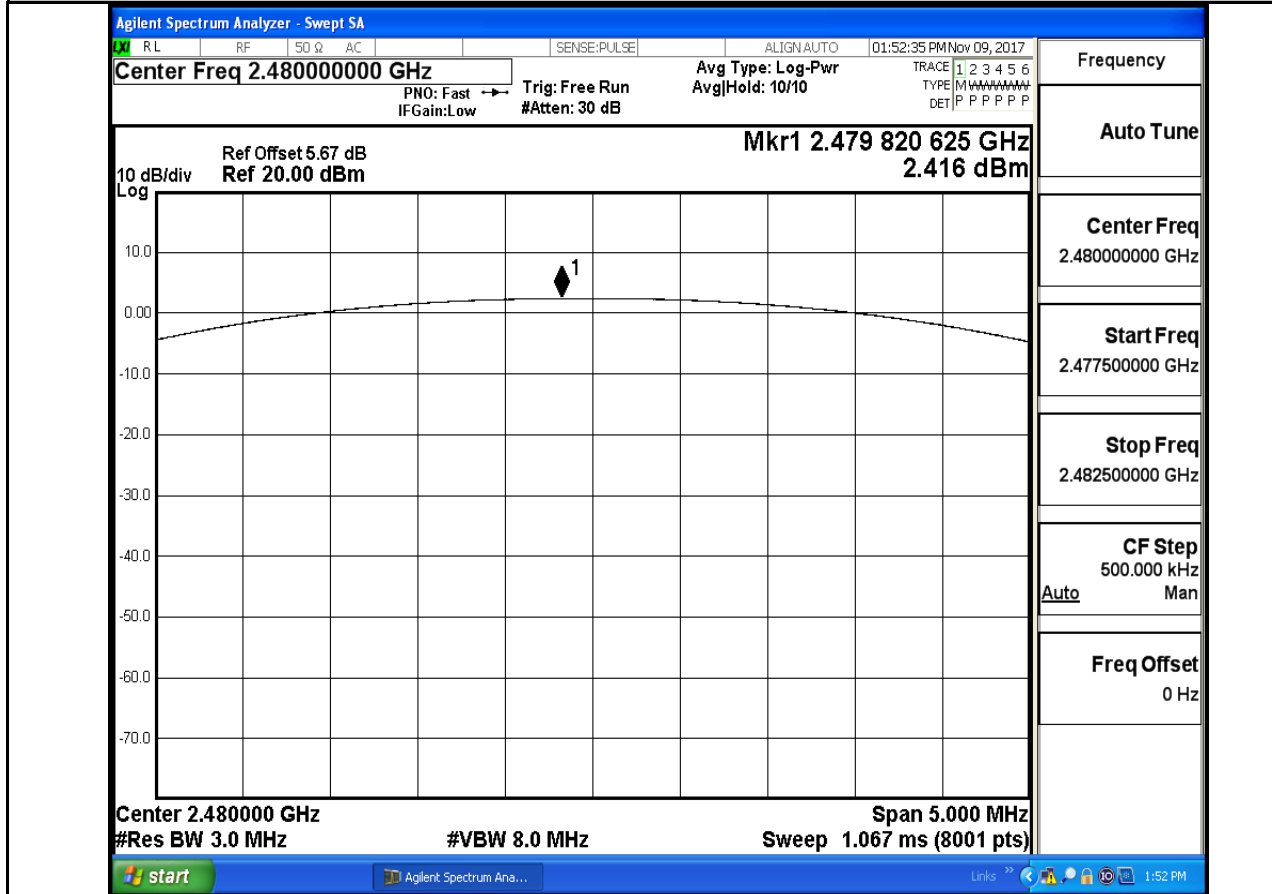
Conducted Peak Output Power_DH5_2402



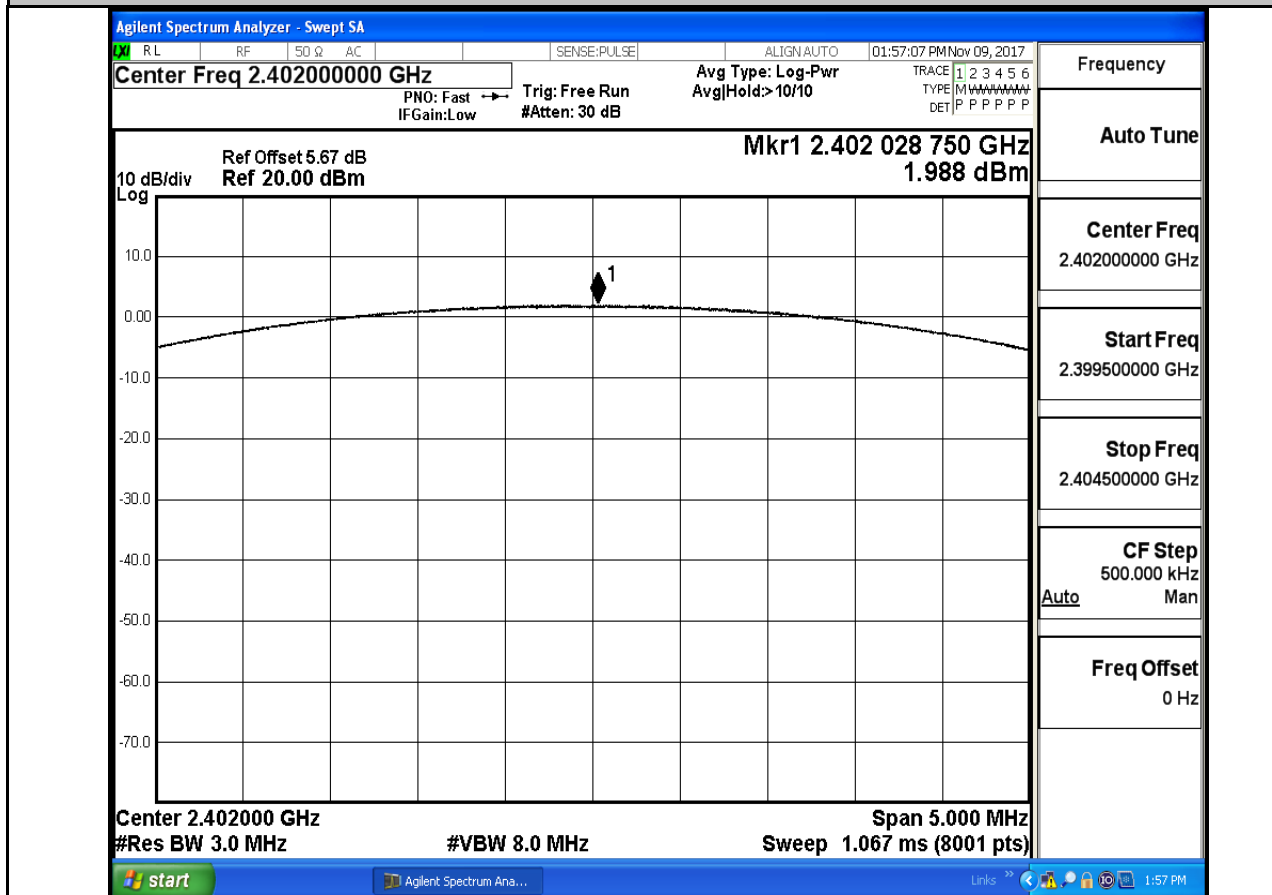
Conducted Peak Output Power_DH5_2441



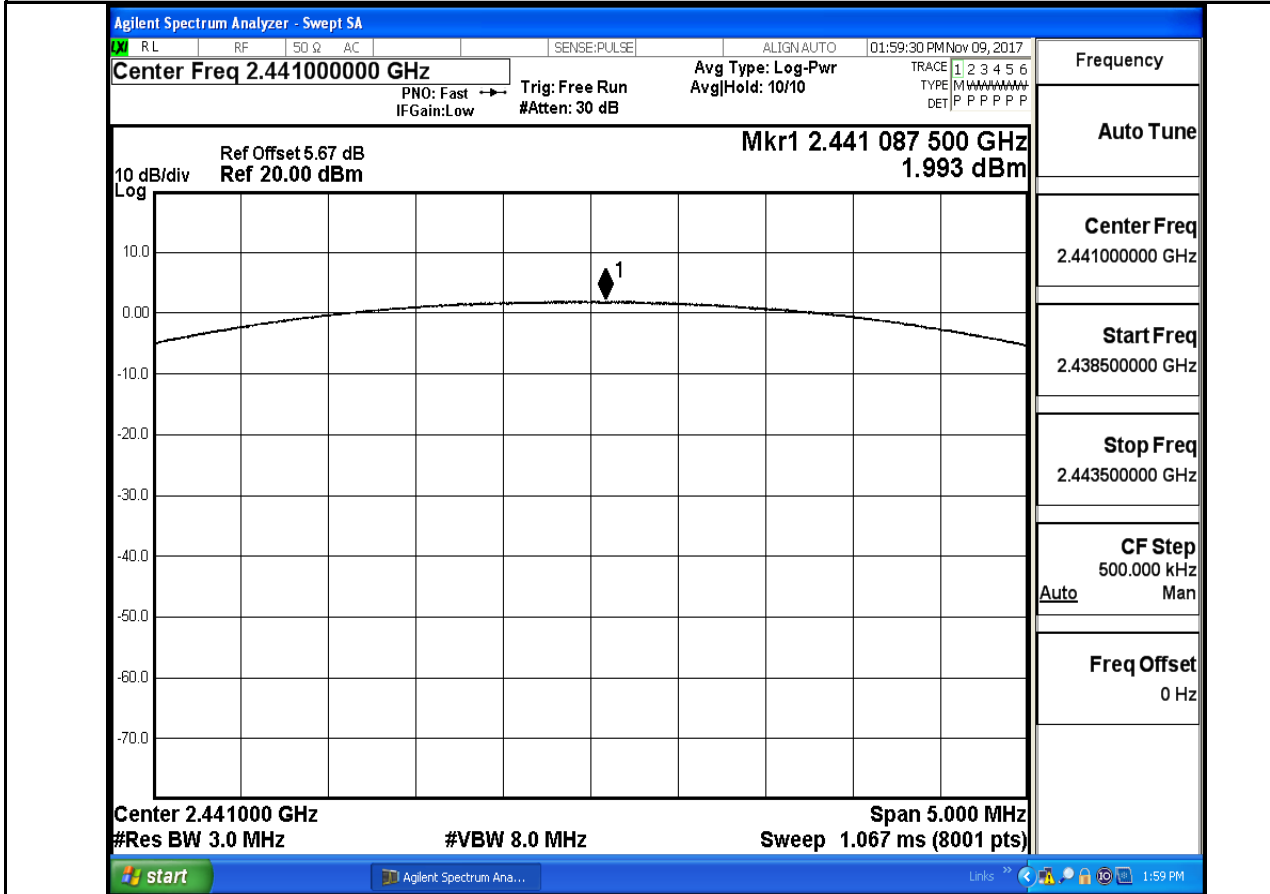
Conducted Peak Output Power_DH5_2480



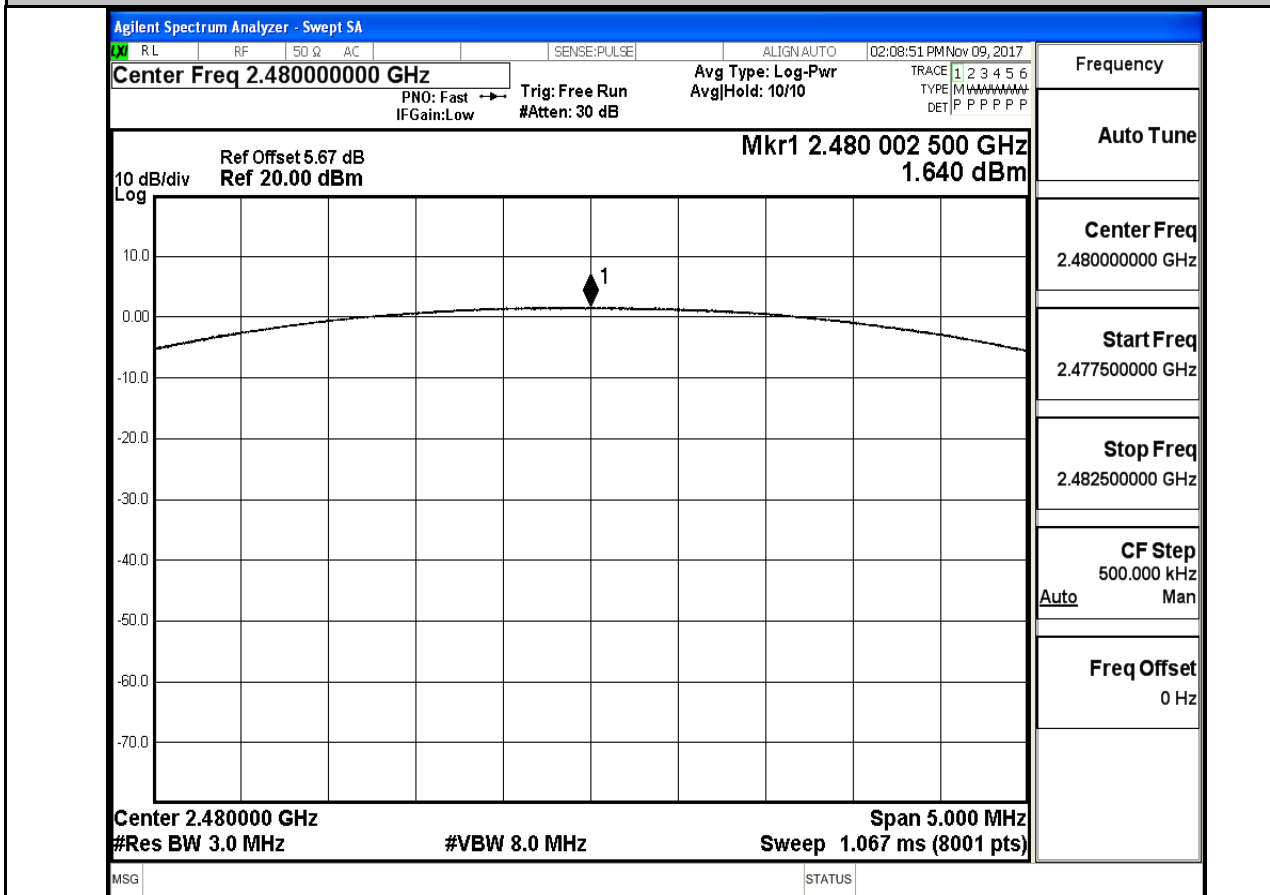
Conducted Peak Output Power_2DH5_2402



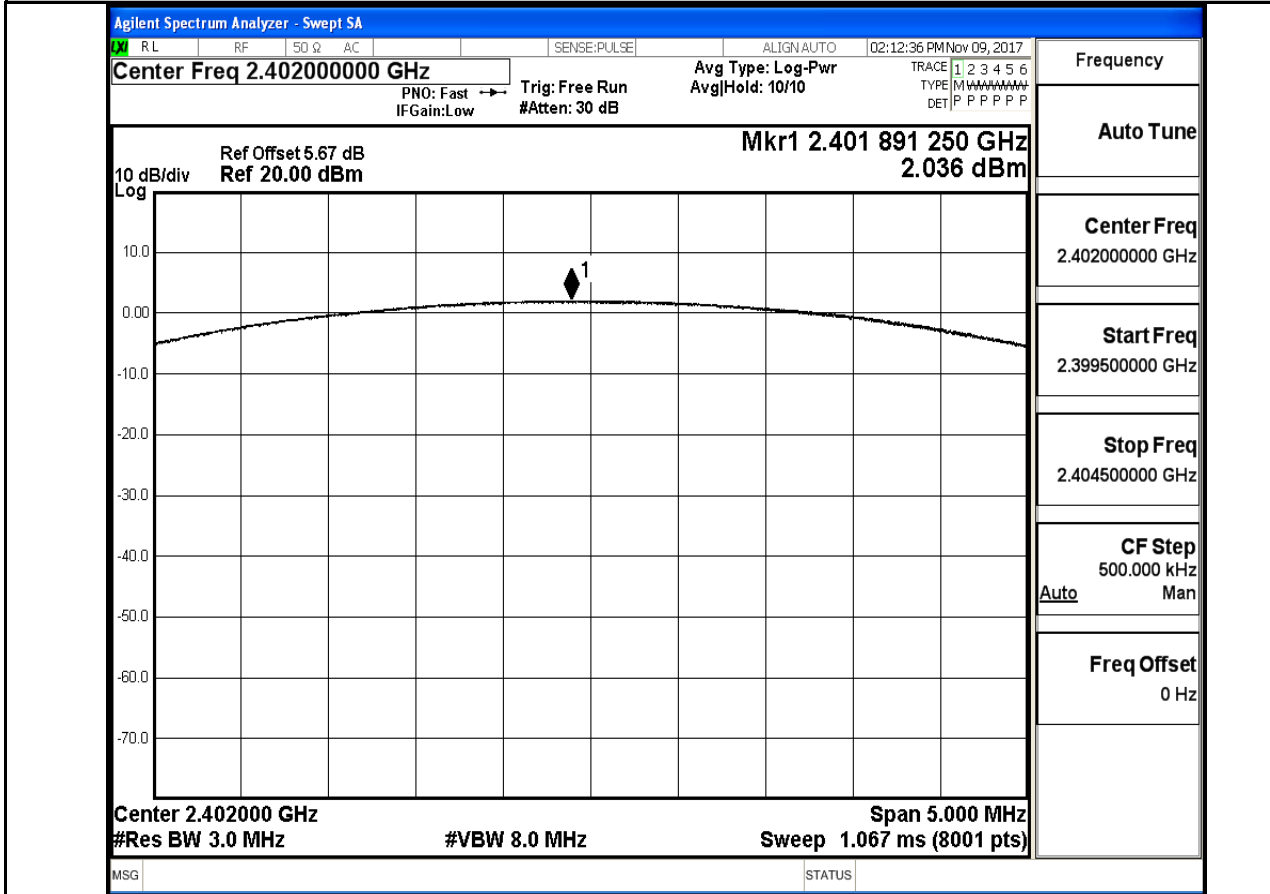
Conducted Peak Output Power_2DH5_2441



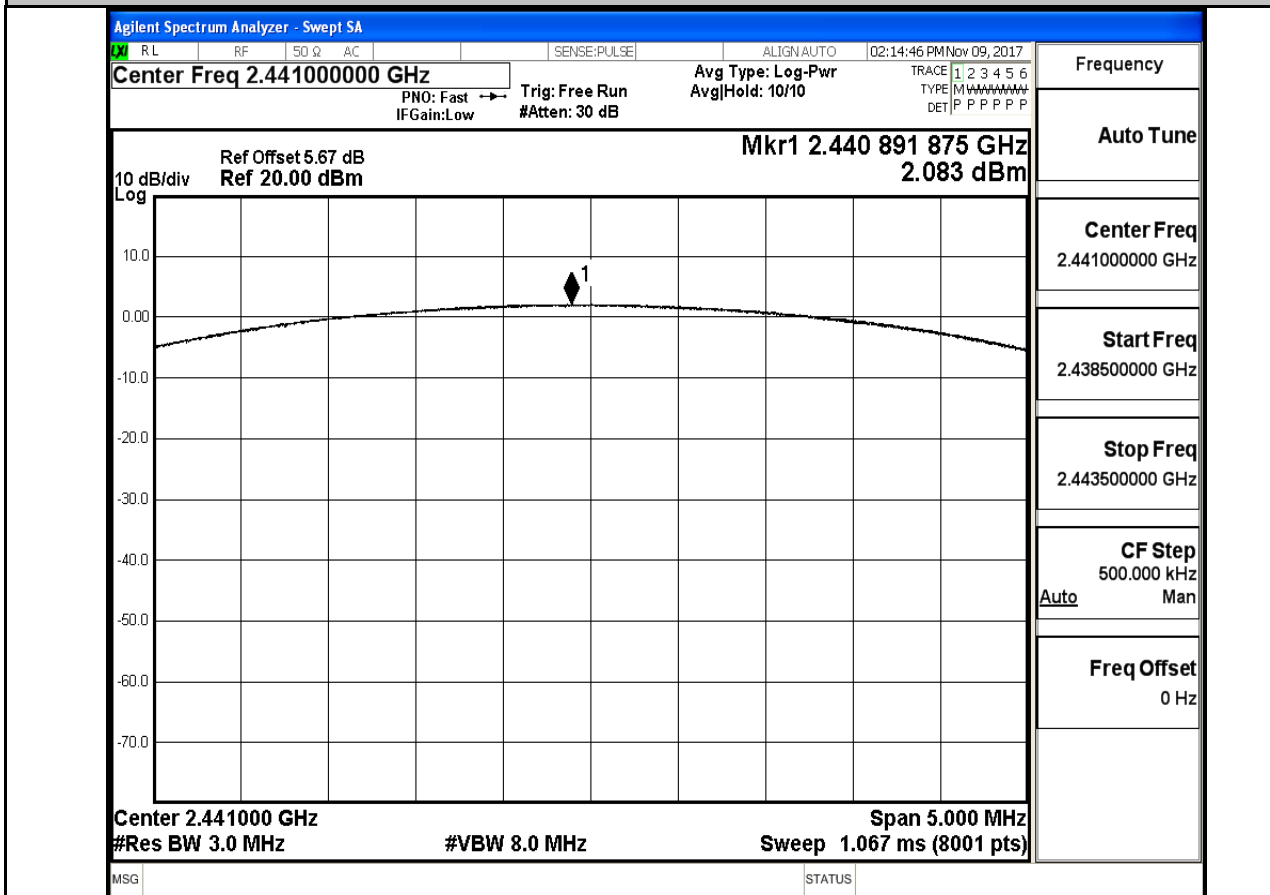
Conducted Peak Output Power_2DH5_2480



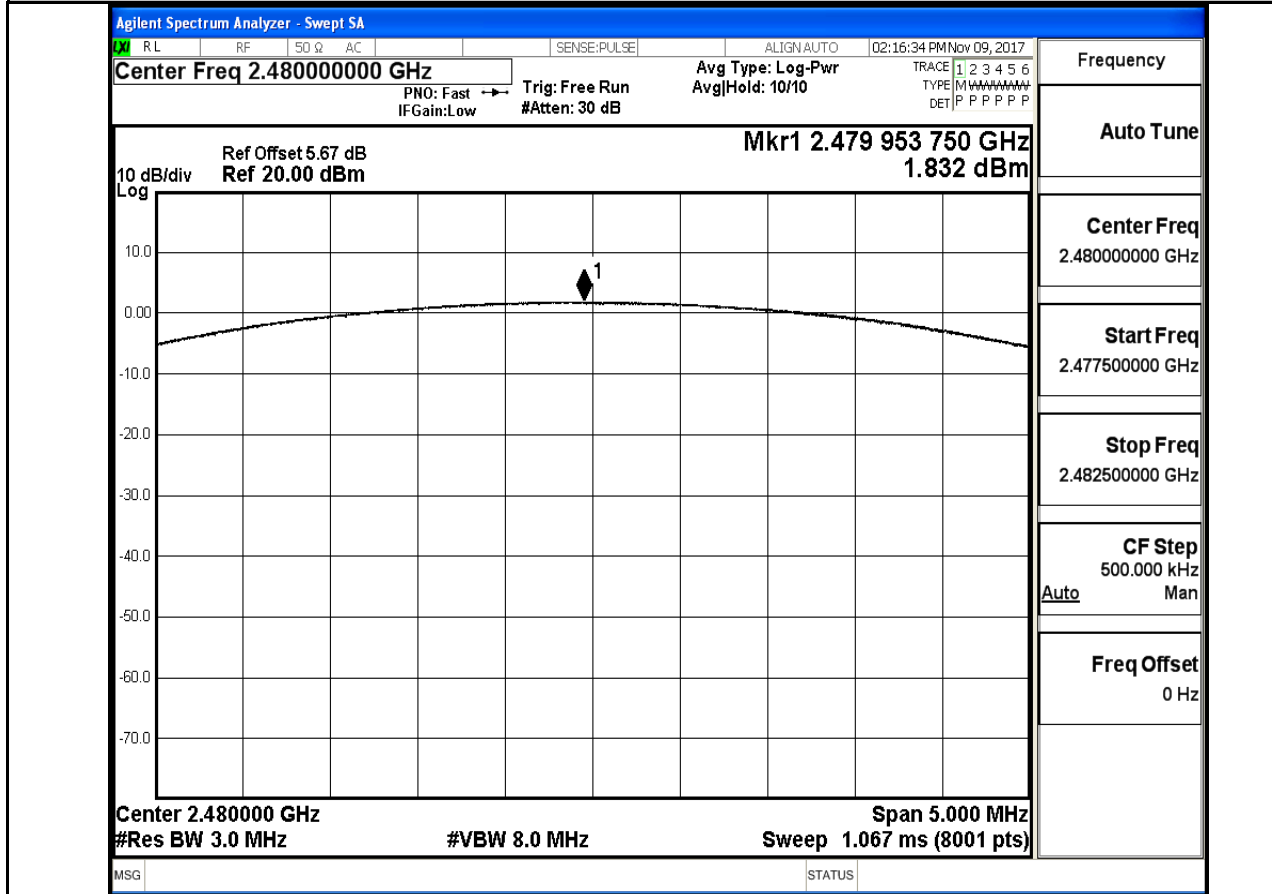
Conducted Peak Output Power_3DH5_2402



Conducted Peak Output Power_3DH5_2441



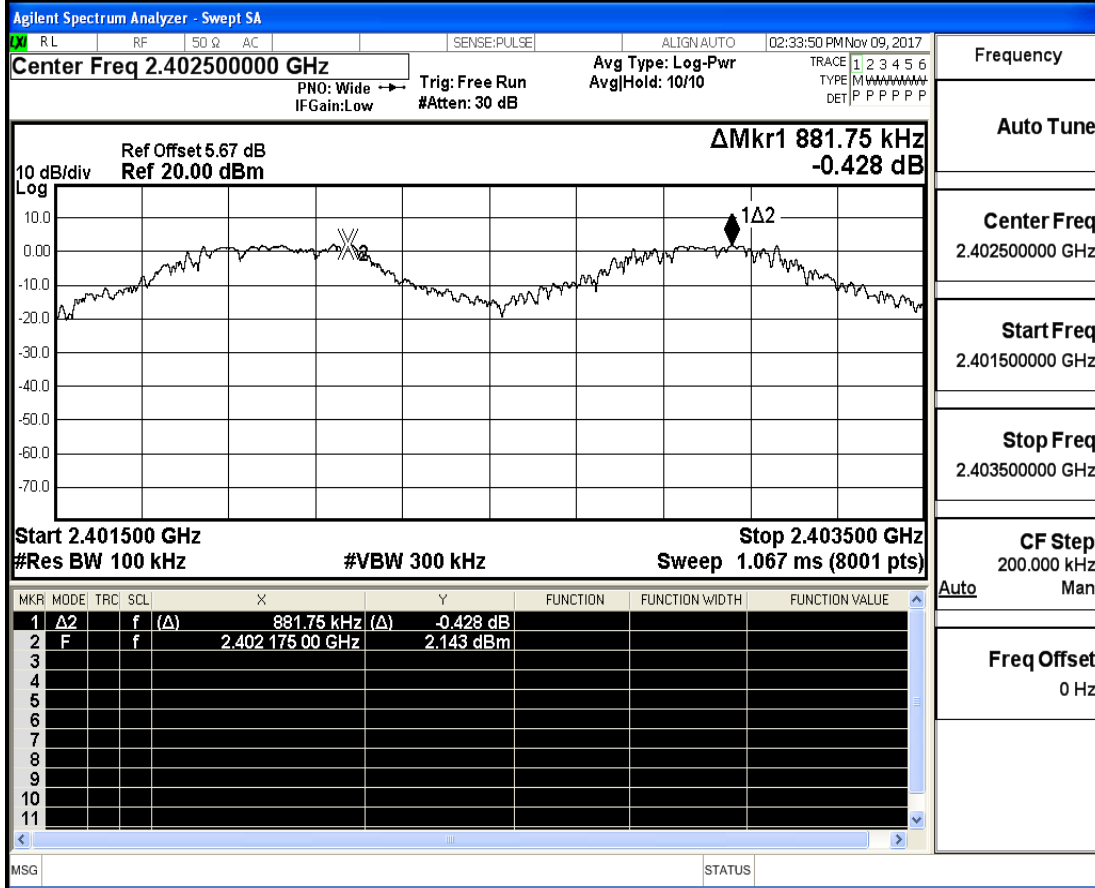
Conducted Peak Output Power_3DH5_2480



3.Carrier Frequency Separation

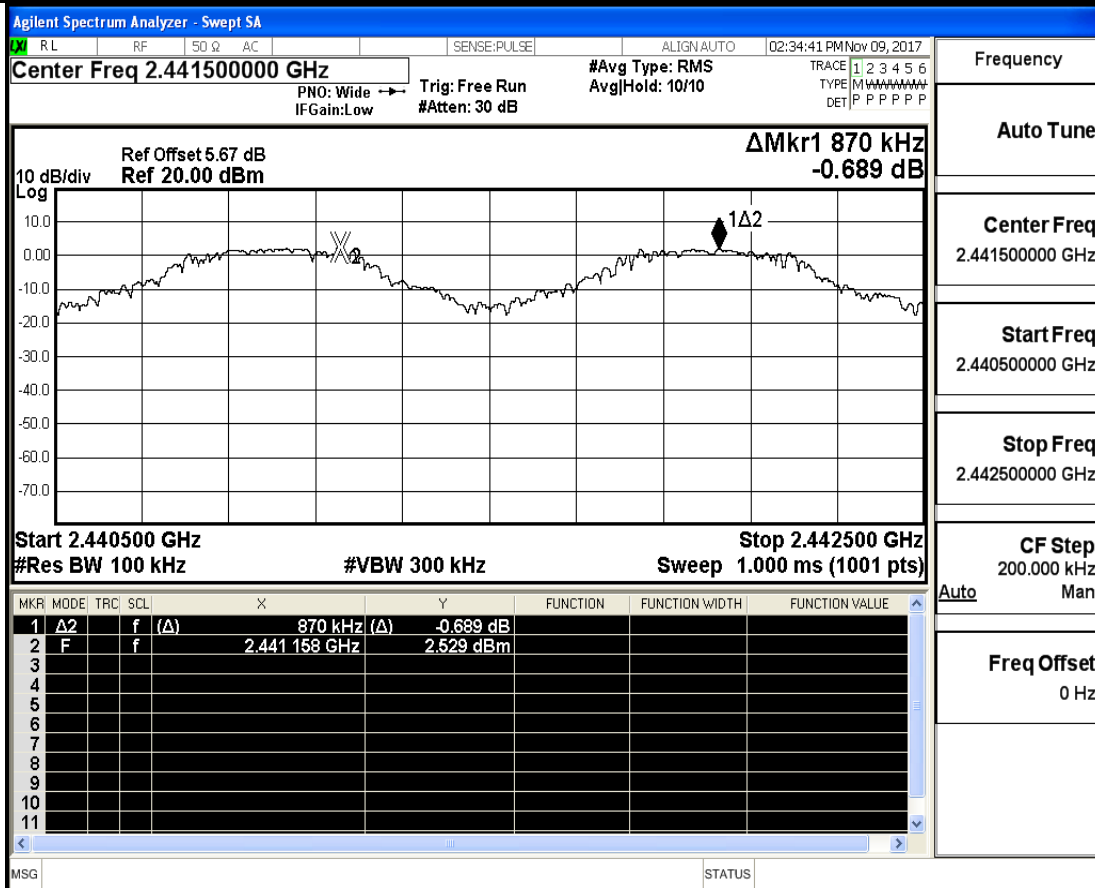
Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	2402	0.882	0.688	PASS
DH5	2441	0.870	0.686	PASS
DH5	2480	0.898	0.687	PASS
2DH5	2402	1.154	0.862	PASS
2DH5	2441	0.954	0.864	PASS
2DH5	2480	1.300	0.861	PASS
3DH5	2402	0.982	0.864	PASS
3DH5	2441	0.994	0.869	PASS
3DH5	2480	1.158	0.867	PASS

Carrier Frequency Separation_DH5_2402



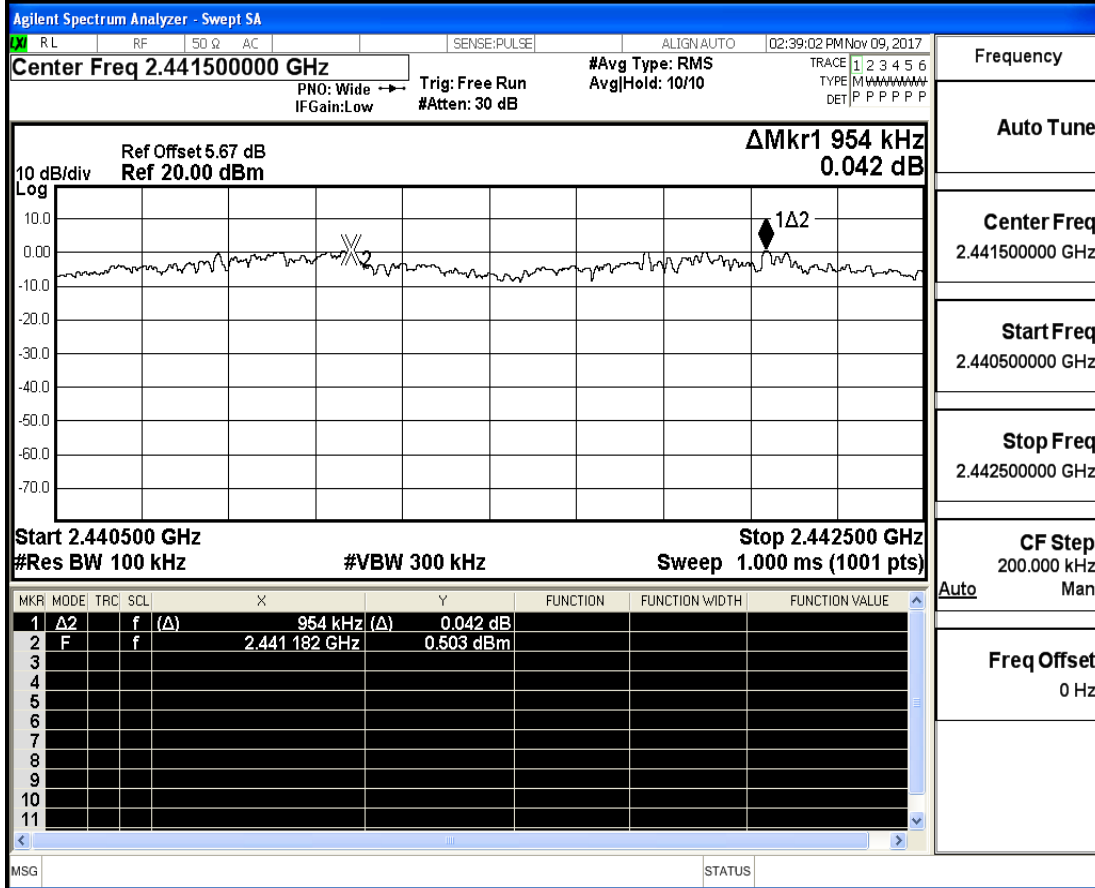
Frequency
Auto Tune
Center Freq 2.402500000 GHz
Start Freq 2.401500000 GHz
Stop Freq 2.403500000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz

Carrier Frequency Separation_DH5_2441

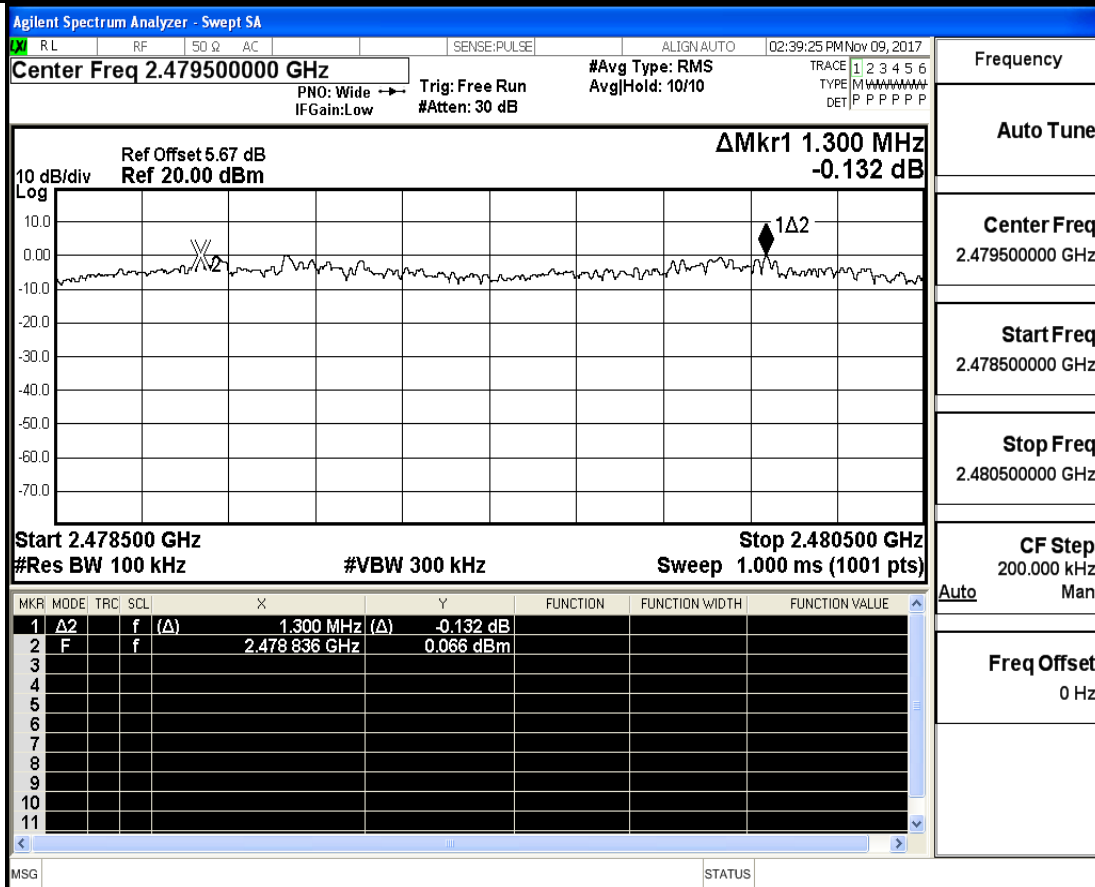


Frequency
Auto Tune
Center Freq 2.441500000 GHz
Start Freq 2.440500000 GHz
Stop Freq 2.442500000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz

Carrier Frequency Separation_2DH5_2441



Carrier Frequency Separation_2DH5_2480



Carrier Frequency Separation_3DH5_2480

Agilent Spectrum Analyzer - Swept SA

X	RL	RF	50 Ω	AC	SENSE:PULSE	ALIGN:AUTO	02:44:56 PM Nov 09, 2017
---	----	----	------	----	-------------	------------	--------------------------

Center Freq 2.479500000 GHz

PN0: Wide → Trig: Free Run
IFGain: Low #Atten: 30 dB

#Avg Type: RMS
AvgHold: 10/10

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W
DET P P P P P P

ΔMkr1 1.158 MHz

0.783 dB

Ref Offset 5.67 dB
Ref 20.00 dBm

10 dB/div
Log

Start 2.478500 GHz
#Res BW 100 kHz

Stop 2.480500 GHz
Sweep 1.000 ms (1001 pts)

CF Step 200.000 kHz
Auto Man

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	f	(Δ)	1.158 MHz (Δ)	0.783 dB			
2	F	f		2.478 992 GHz	-0.078 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG

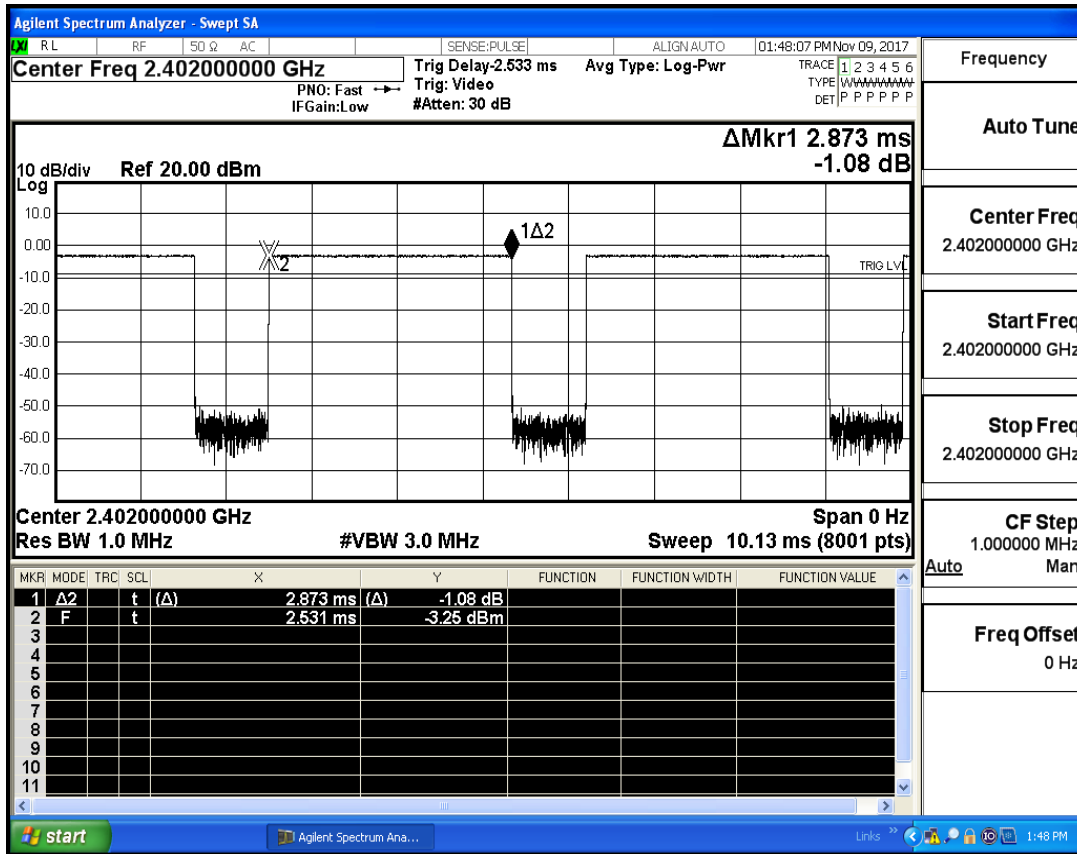
STATUS

Frequency
Auto Tune
Center Freq 2.479500000 GHz
Start Freq 2.478500000 GHz
Stop Freq 2.480500000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz

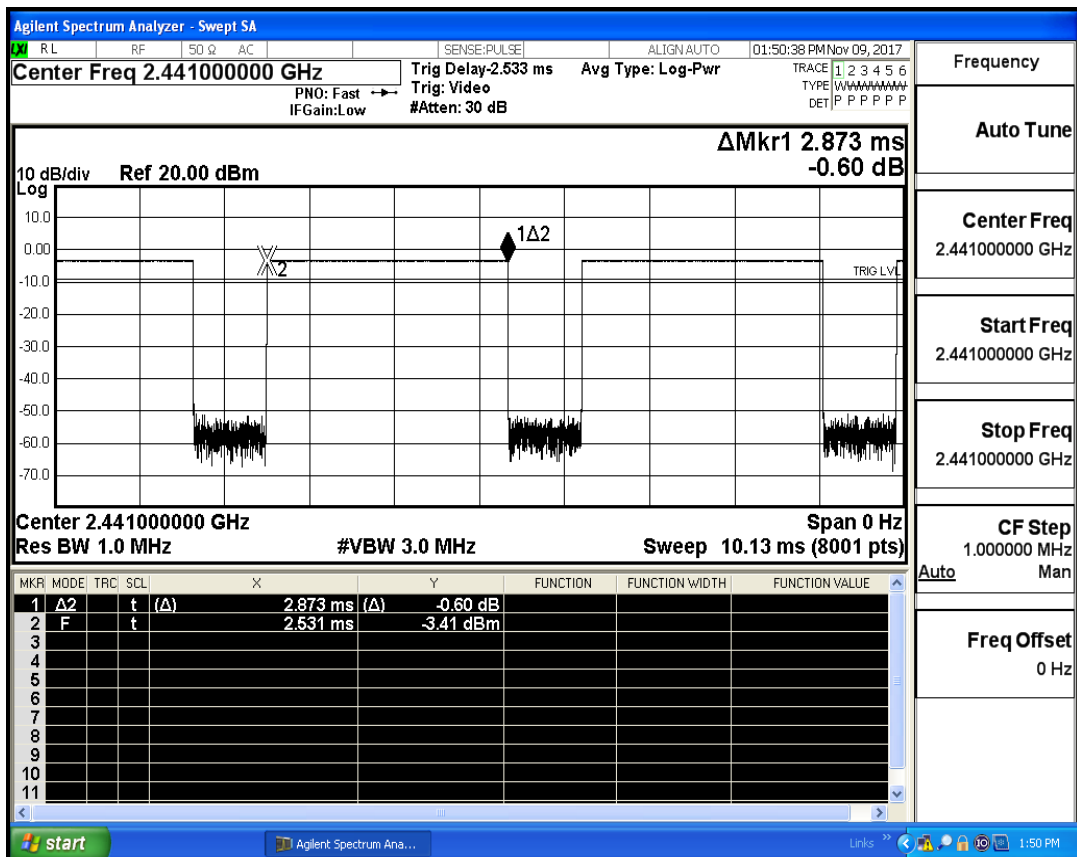
4.Dwell Time

Test Mode	Test Channel	Burst Width[ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit[s]	Verdict
DH5	2402	2.87	106.7	0.306	0.4	PASS
DH5	2441	2.87	106.7	0.306	0.4	PASS
DH5	2480	2.87	106.7	0.306	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
3DH5	2402	2.88	106.7	0.307	0.4	PASS
3DH5	2441	2.88	106.7	0.307	0.4	PASS
3DH5	2480	2.88	106.7	0.307	0.4	PASS

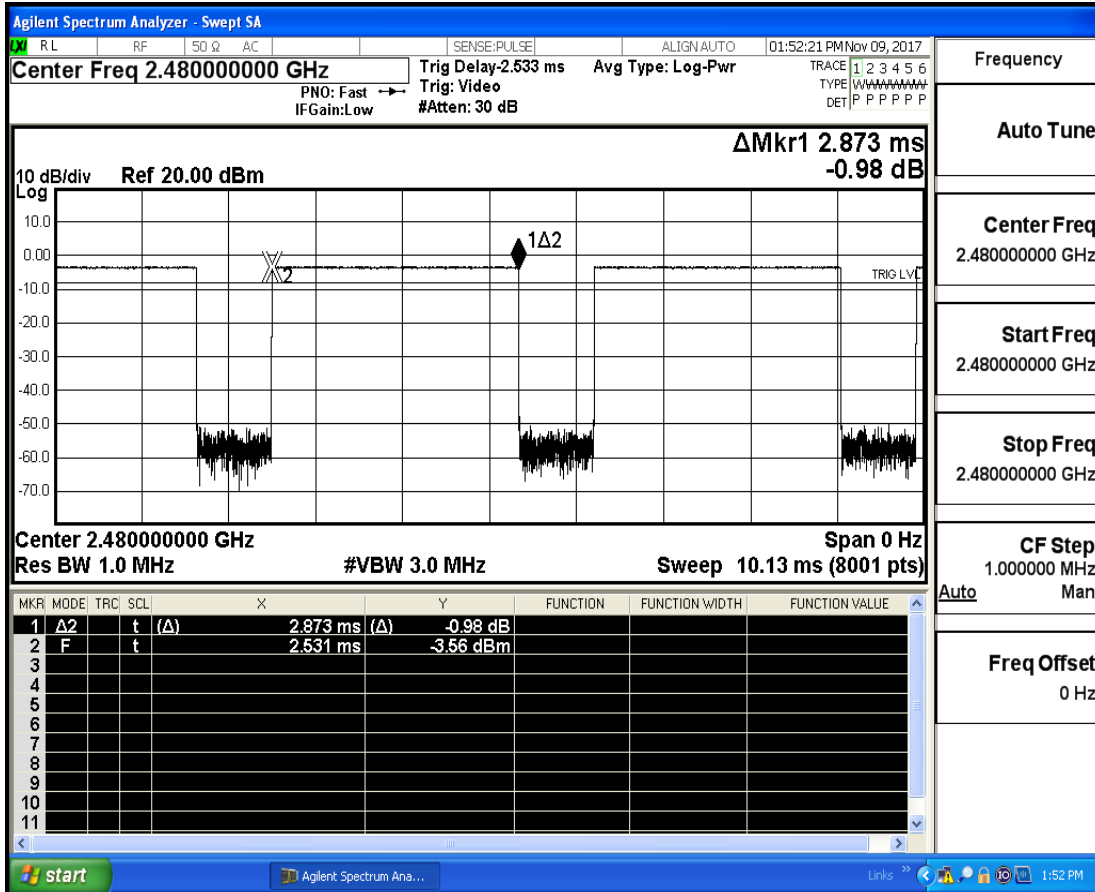
Dwell Time_DH5_2402



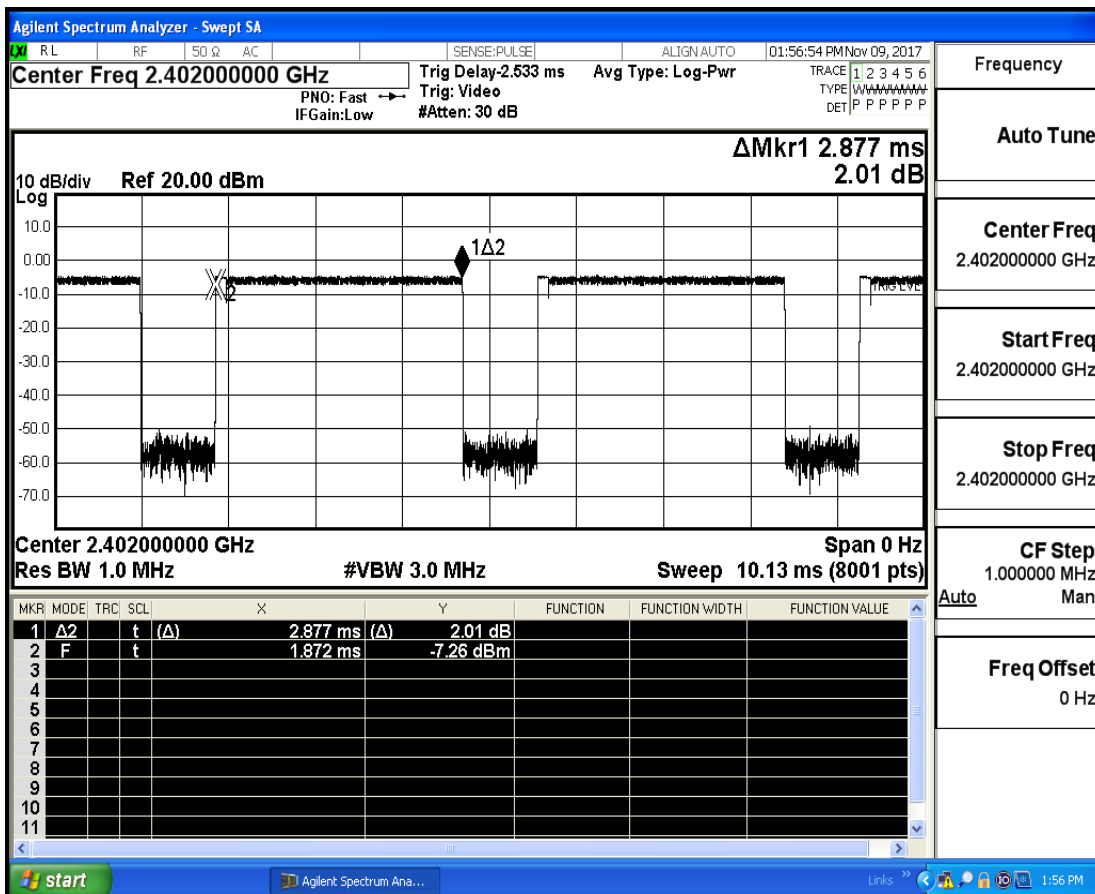
Dwell Time_DH5_2441



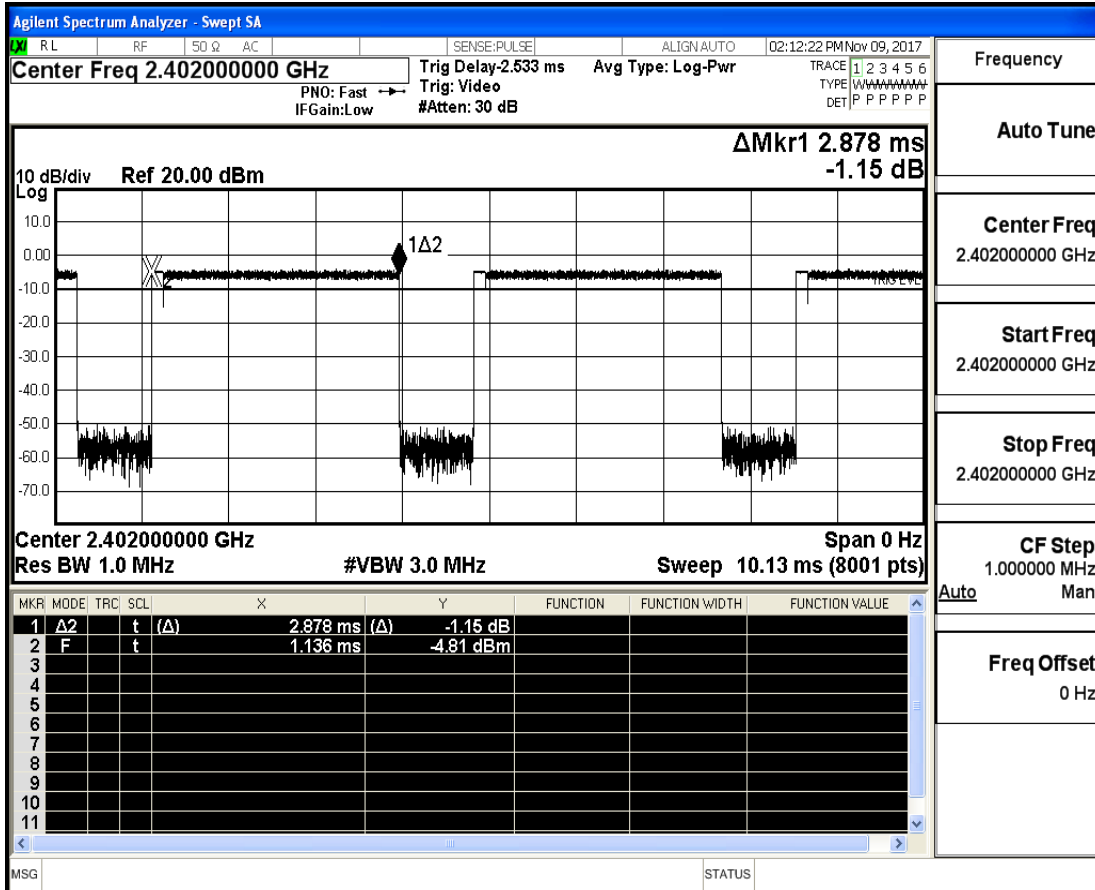
Dwell Time_DH5_2480



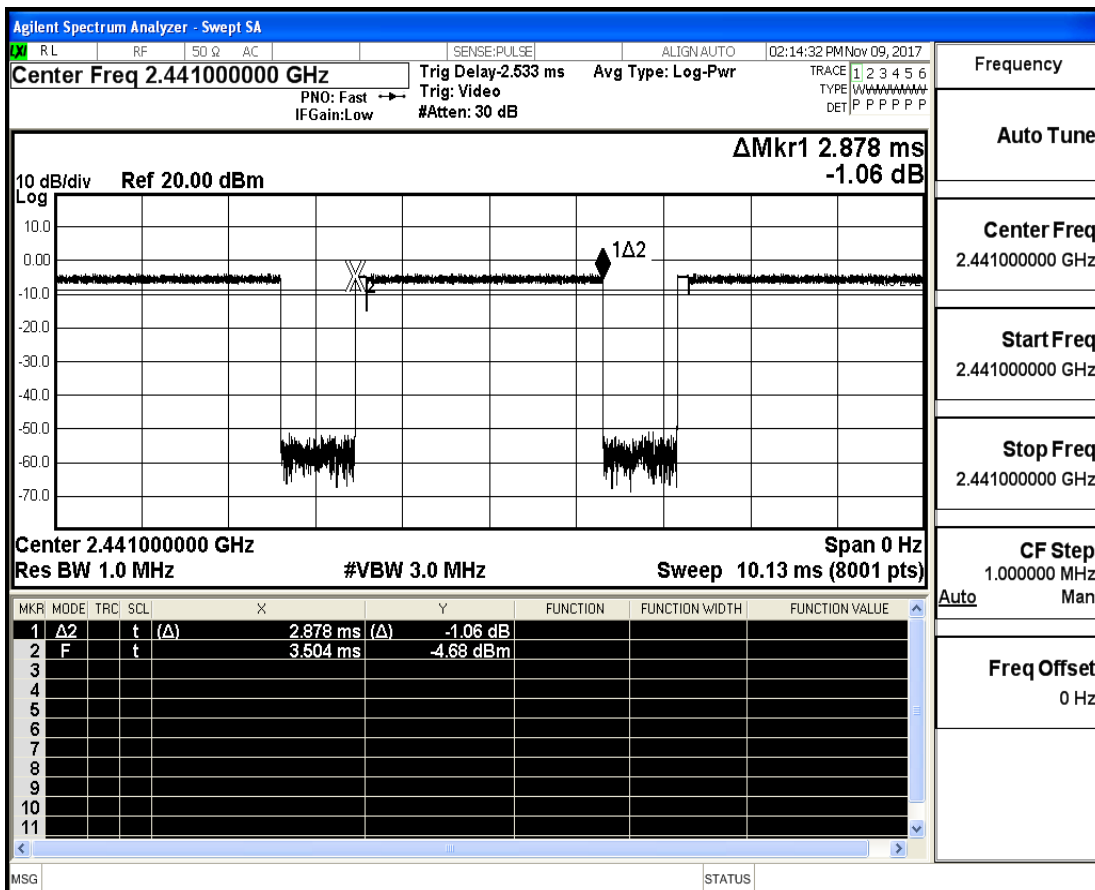
Dwell Time_2DH5_2402



Dwell Time_3DH5_2402



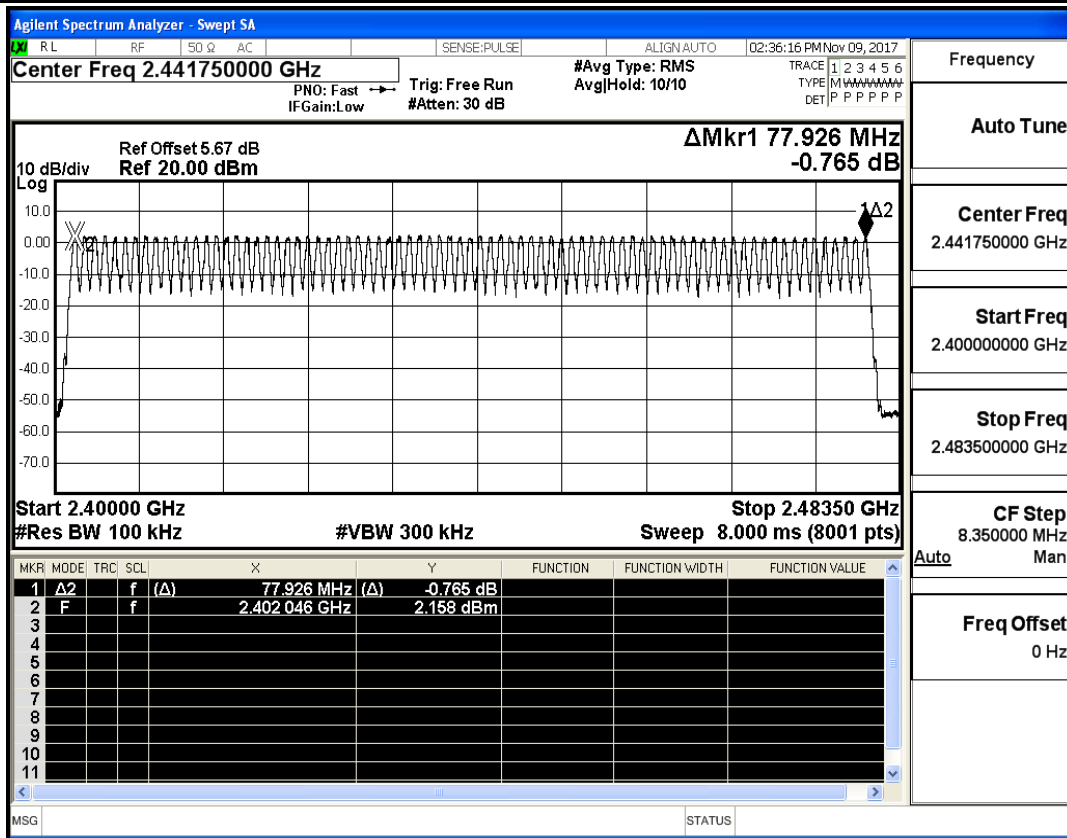
Dwell Time_3DH5_2441



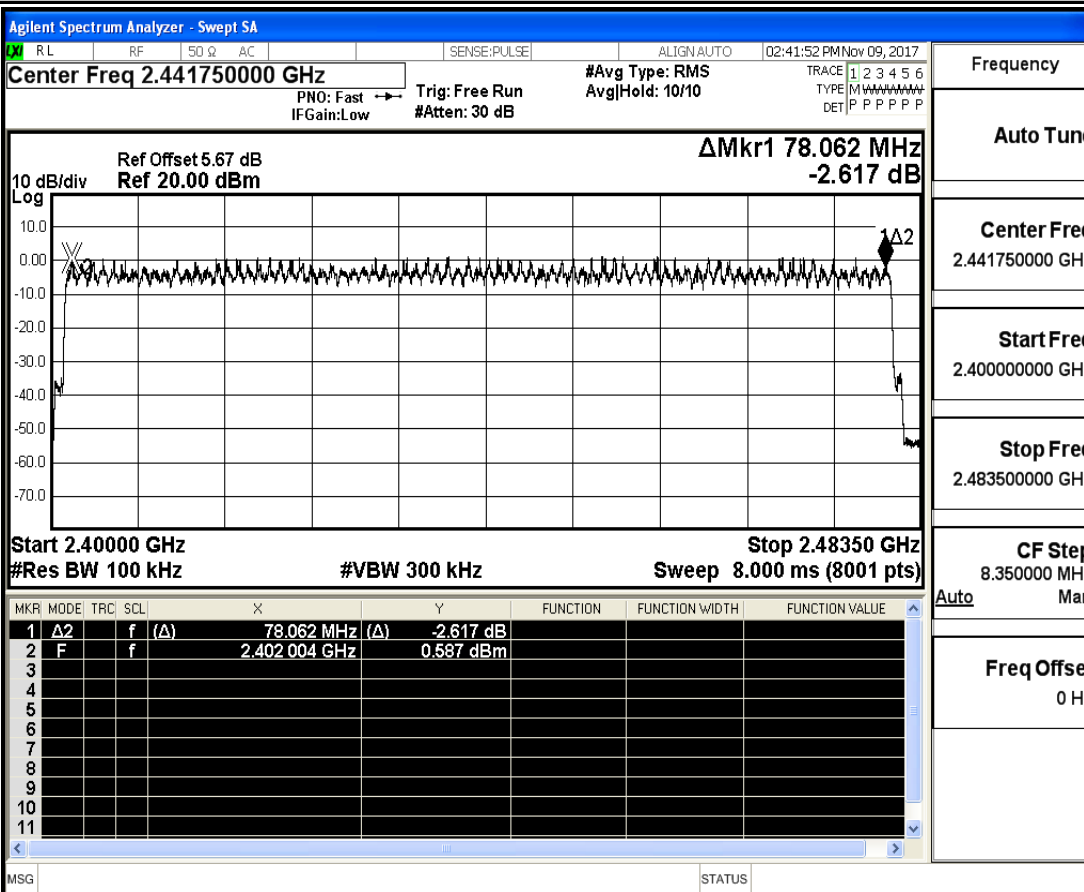
5.Hopping Channel Number

Test Mode	Test Channel	Number of Hopping Channel[N]	Limit[N]	Verdict
DH5	2402	79	≥ 15	PASS
2DH5	2402	79	≥ 15	PASS
3DH5	2402	79	≥ 15	PASS

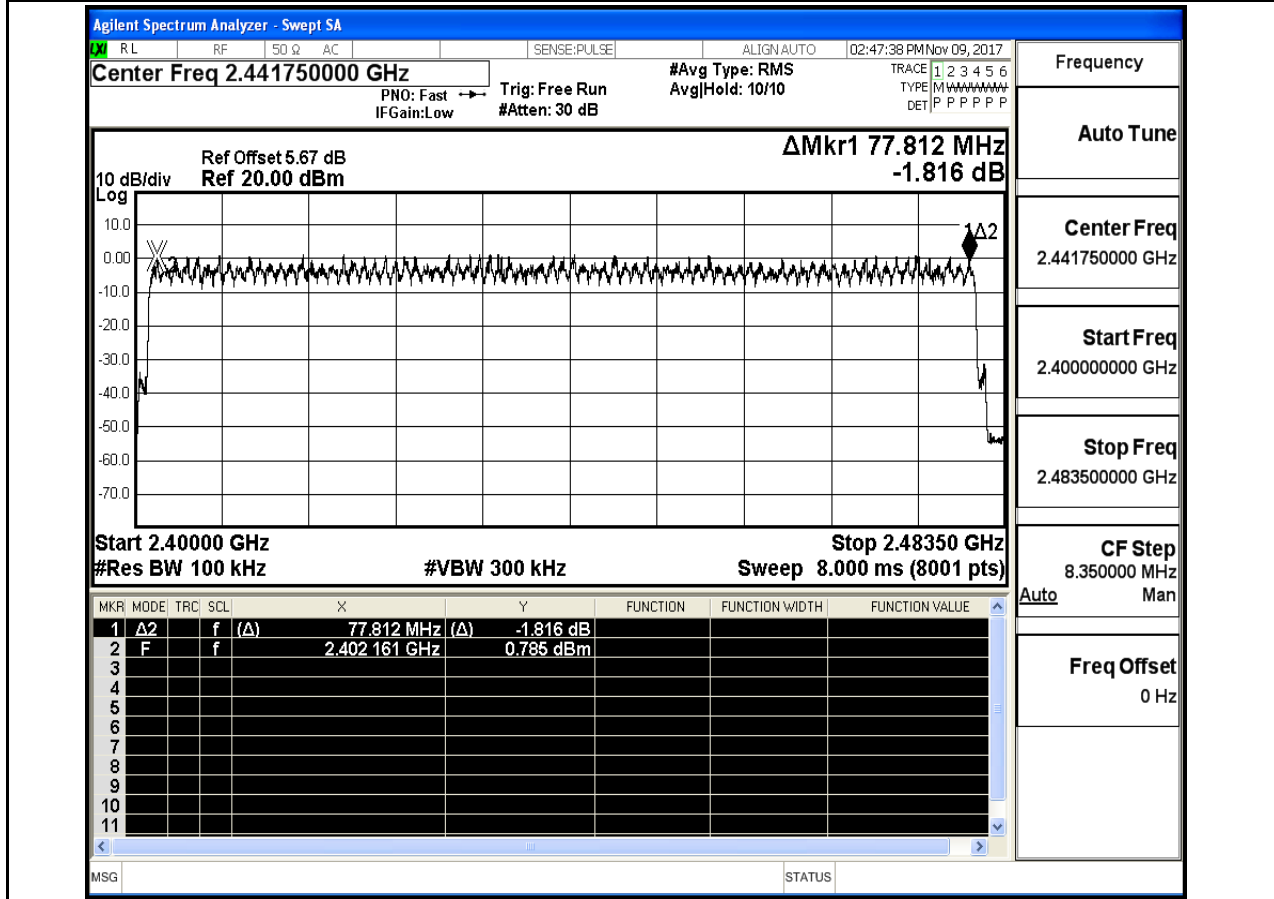
Hopping Channel Number_DH5_2402



Hopping Channel Number_2DH5_2402



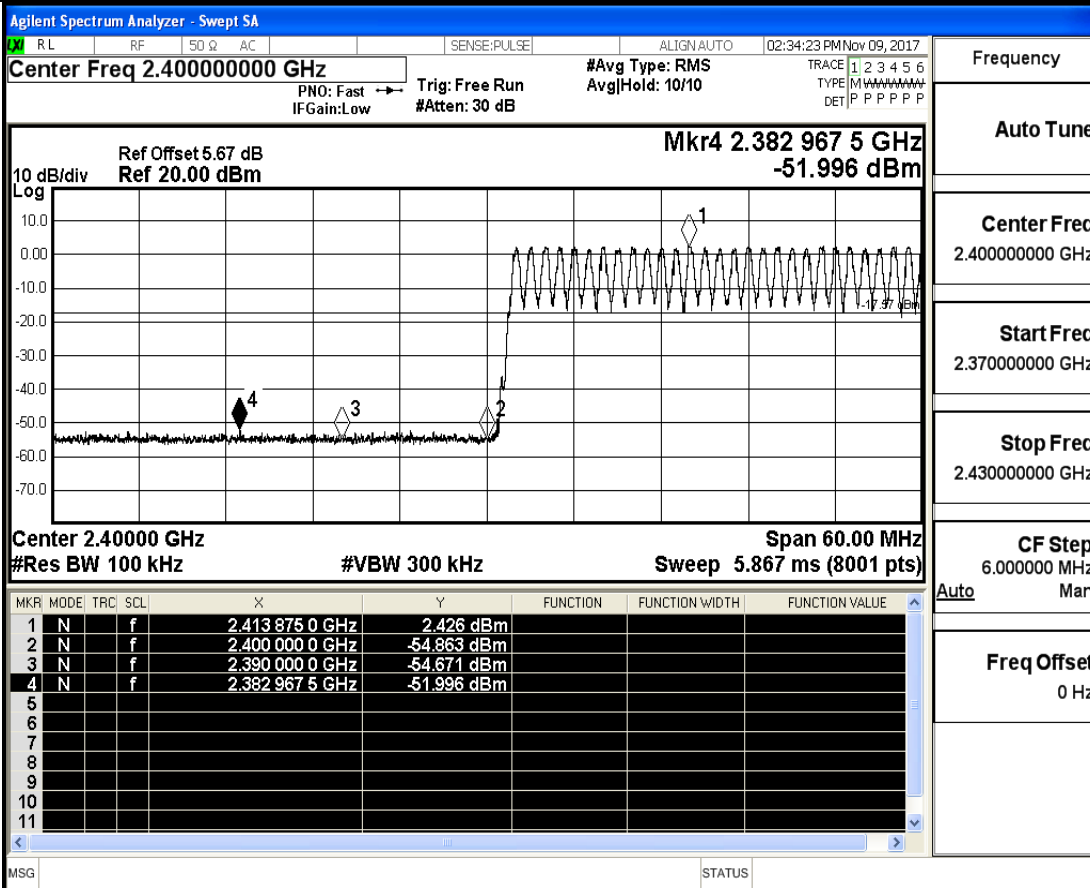
Hopping Channel Number_3DH5_2402



6.Band-edge for RF Conducted Emissions

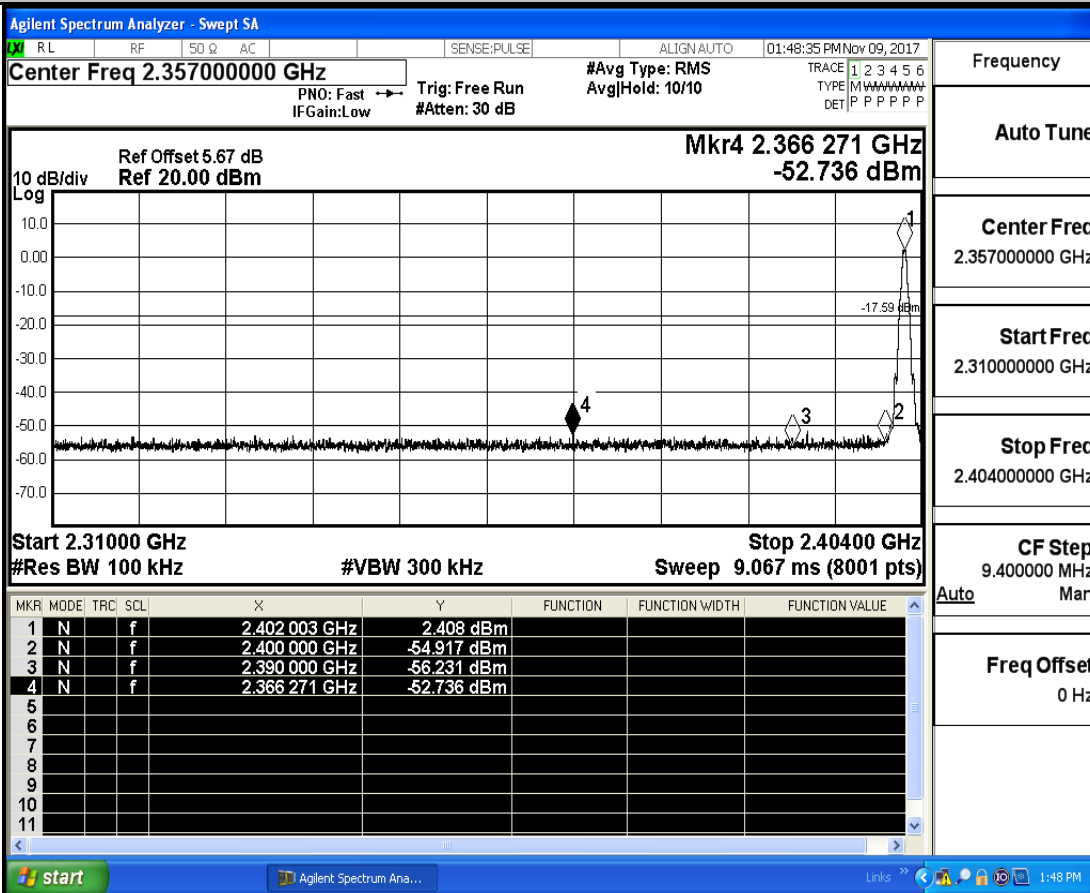
Test Mode	Test Channel	Hopping	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit[dBm]	Verdict
DH5	2402	On	2.426	-51.996	-17.57	PASS
DH5	2402	Off	2.408	-52.736	-17.59	PASS
DH5	2480	On	2.128	-50.302	-17.87	PASS
DH5	2480	Off	2.169	-52.768	-17.83	PASS
2DH5	2402	On	1.066	-52.032	-18.93	PASS
2DH5	2402	Off	-0.602	-52.101	-20.6	PASS
2DH5	2480	On	0.866	-51.148	-19.13	PASS
2DH5	2480	Off	0.825	-52.484	-19.18	PASS
3DH5	2402	On	1.001	-52.268	-19	PASS
3DH5	2402	Off	0.849	-52.490	-19.15	PASS
3DH5	2480	On	0.928	-50.621	-19.07	PASS
3DH5	2480	Off	0.332	-52.419	-19.67	PASS

Band-edge for RF Conducted Emissions_DH5_2402_Hopping On



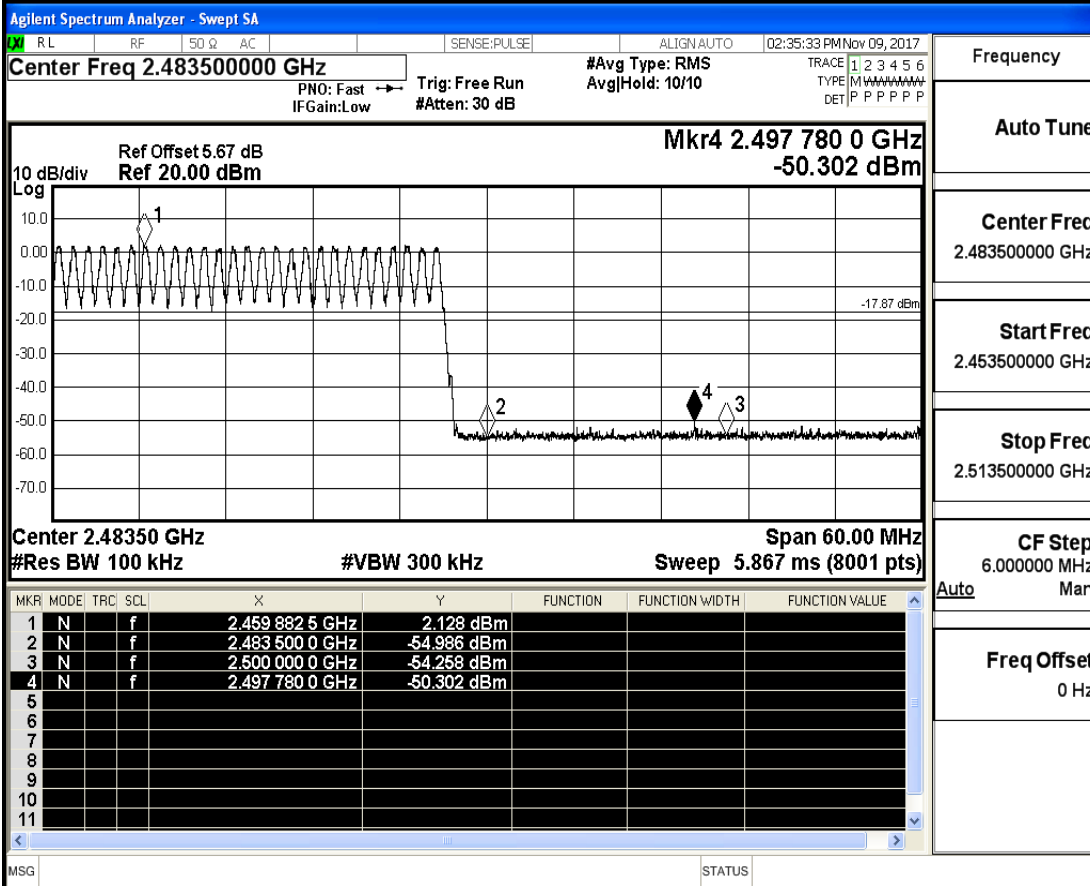
Frequency
Auto Tune
Center Freq 2.40000000 GHz
Start Freq 2.370000000 GHz
Stop Freq 2.430000000 GHz
CF Step 6.000000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_DH5_2402_Hopping Off



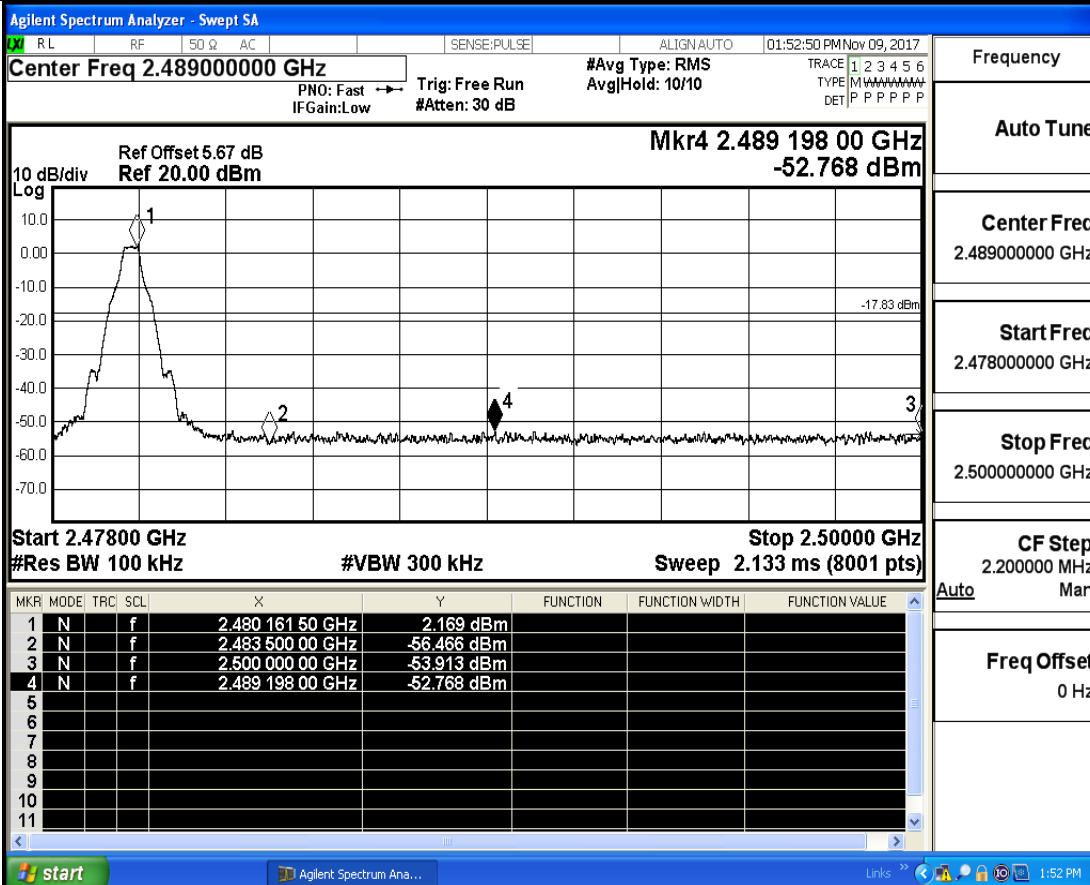
Frequency
Auto Tune
Center Freq 2.357000000 GHz
Start Freq 2.310000000 GHz
Stop Freq 2.404000000 GHz
CF Step 9.400000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_DH5_2480_Hopping On



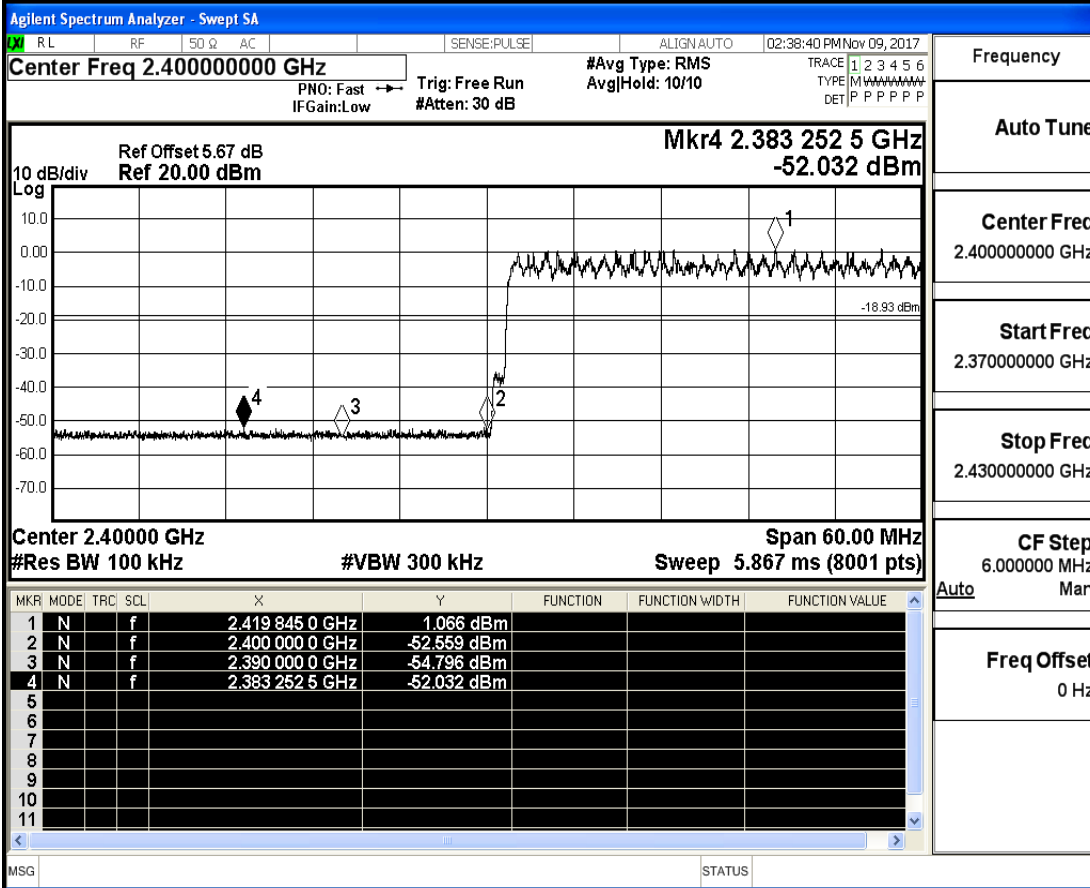
Frequency
Auto Tune
Center Freq 2.483500000 GHz
Start Freq 2.453500000 GHz
Stop Freq 2.513500000 GHz
CF Step 6.000000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_DH5_2480_Hopping Off



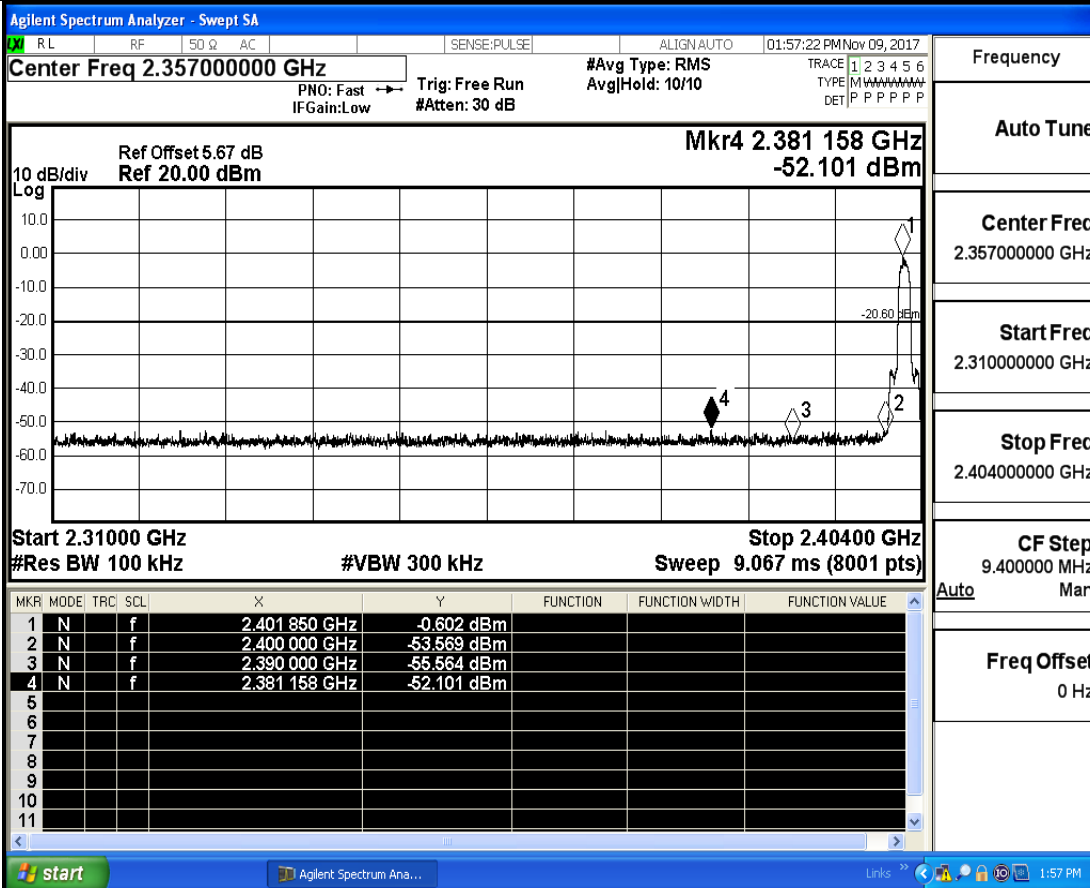
Frequency
Auto Tune
Center Freq 2.489000000 GHz
Start Freq 2.478000000 GHz
Stop Freq 2.500000000 GHz
CF Step 2.200000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_2DH5_2402_Hopping On



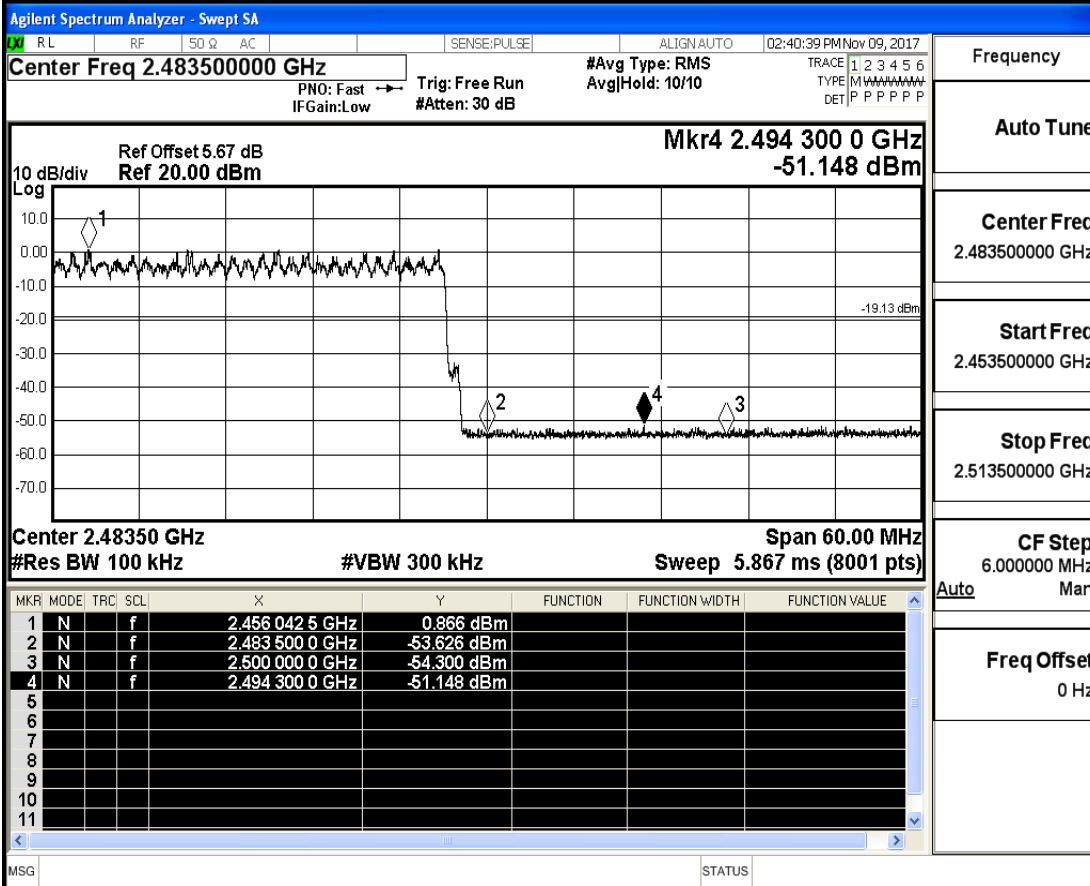
Frequency	
Auto Tune	
Center Freq	2.40000000 GHz
Start Freq	2.37000000 GHz
Stop Freq	2.43000000 GHz
CF Step	6.000000 MHz
Freq Offset	0 Hz

Band-edge for RF Conducted Emissions_2DH5_2402_Hopping Off



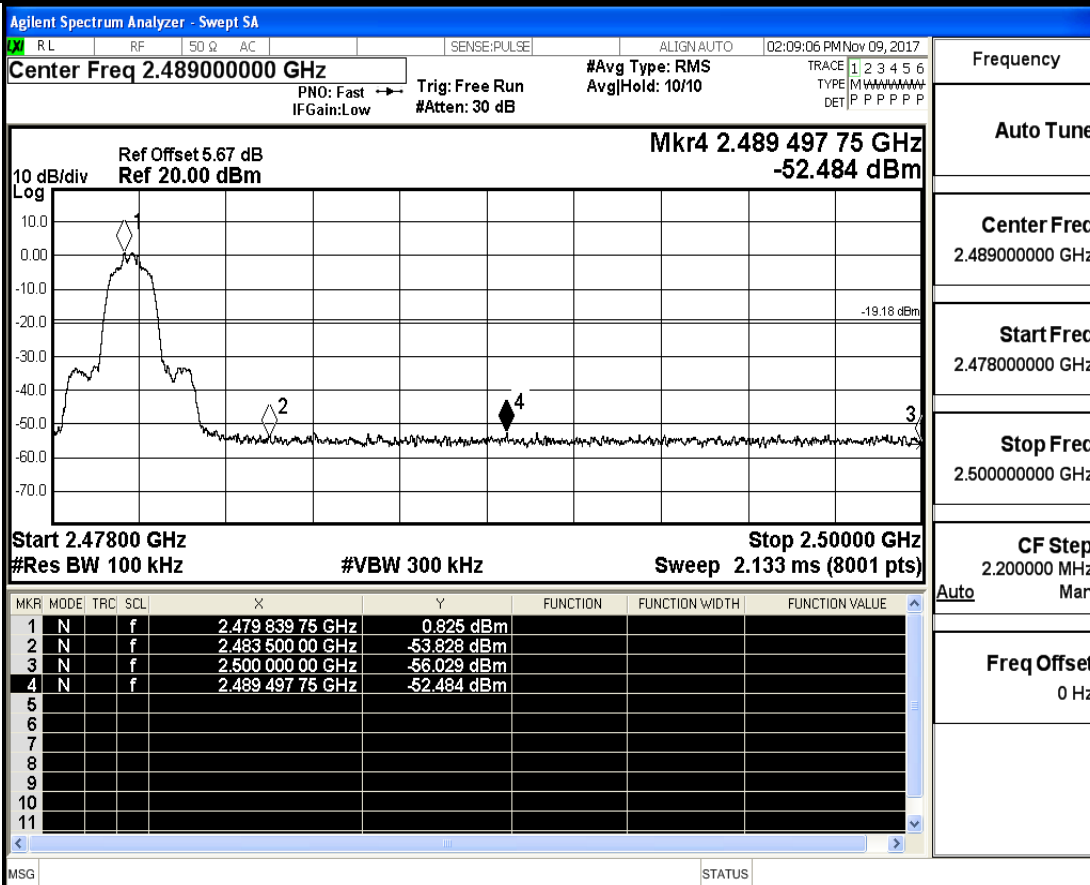
Frequency	
Auto Tune	
Center Freq	2.35700000 GHz
Start Freq	2.31000000 GHz
Stop Freq	2.40400000 GHz
CF Step	9.400000 MHz
Freq Offset	0 Hz

Band-edge for RF Conducted Emissions_2DH5_2480_Hopping On



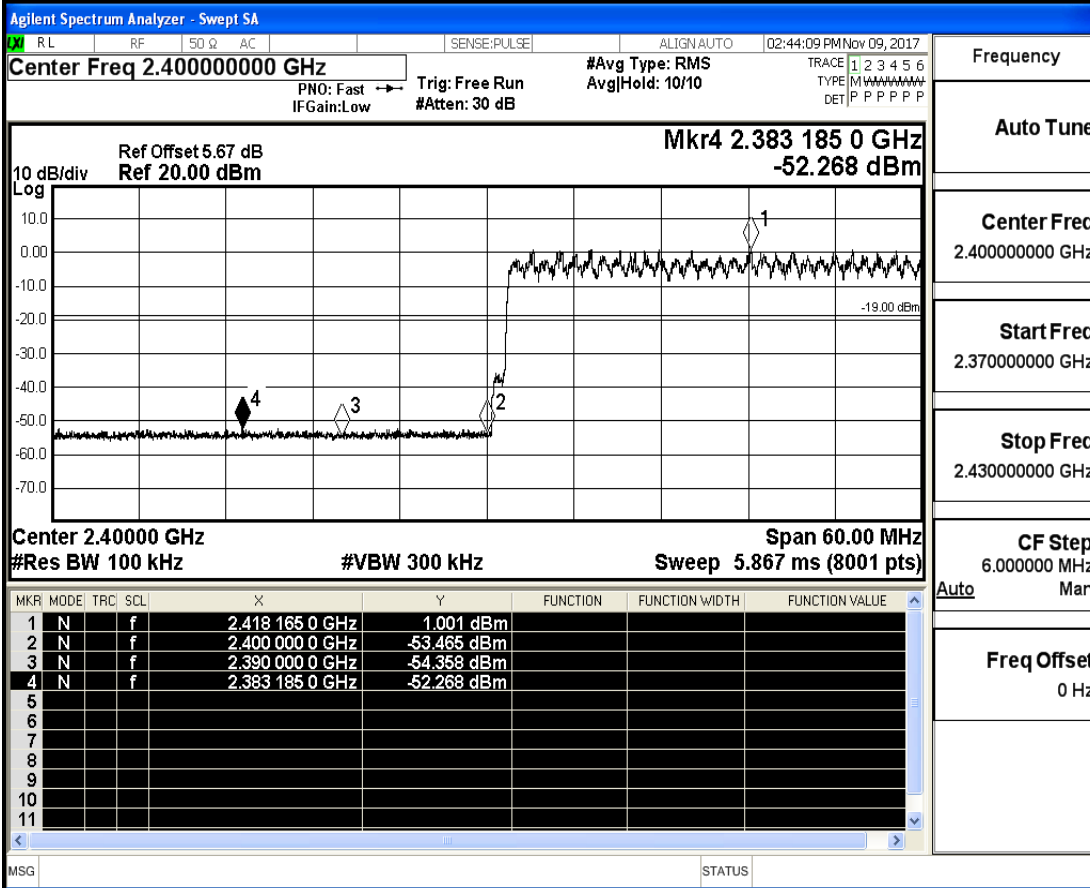
Frequency
Auto Tune
Center Freq 2.483500000 GHz
Start Freq 2.453500000 GHz
Stop Freq 2.513500000 GHz
CF Step 6.000000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_2DH5_2480_Hopping Off



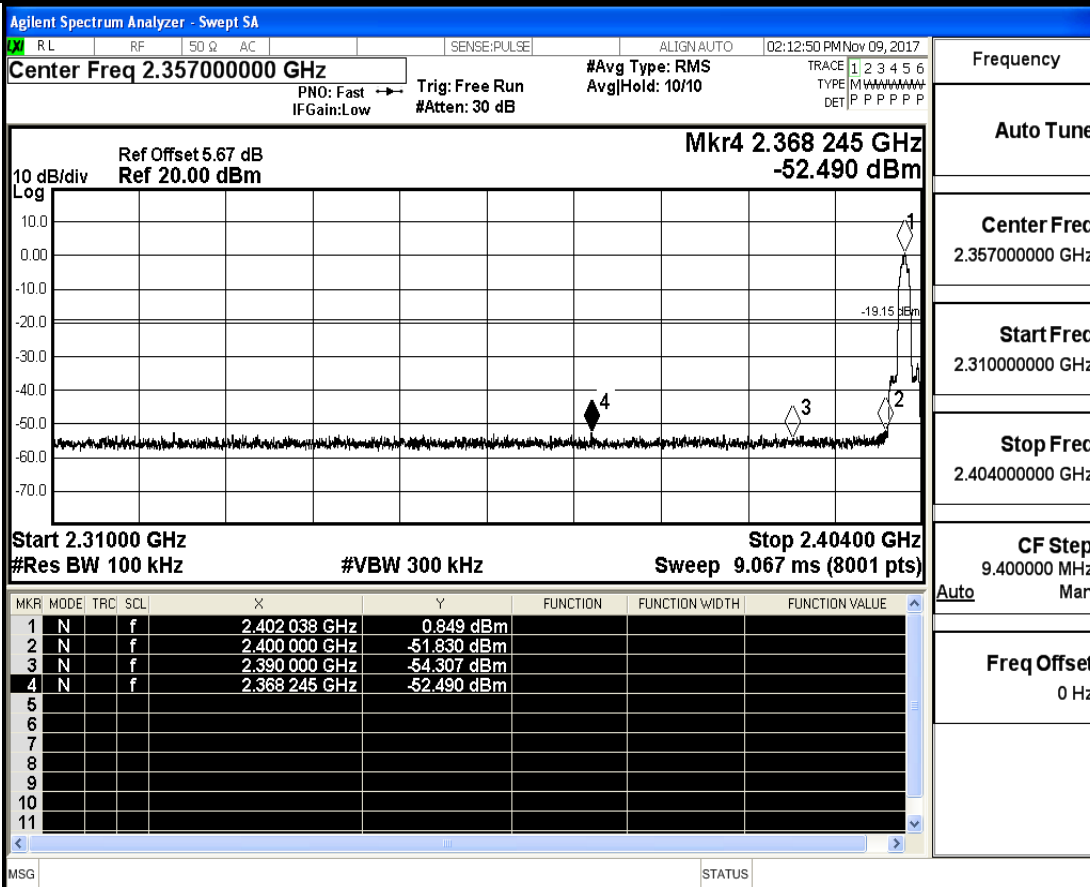
Frequency
Auto Tune
Center Freq 2.489000000 GHz
Start Freq 2.478000000 GHz
Stop Freq 2.500000000 GHz
CF Step 2.200000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_3DH5_2402_Hopping On



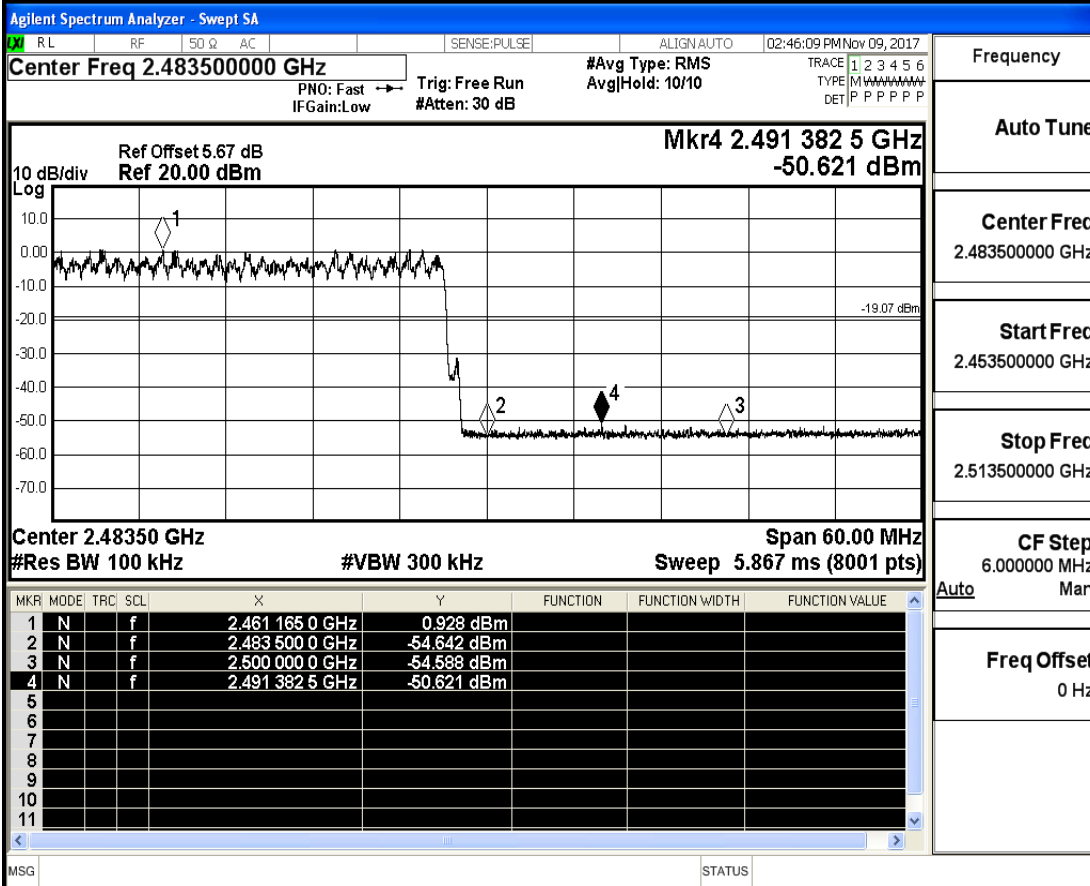
Frequency
Auto Tune
Center Freq 2.40000000 GHz
Start Freq 2.370000000 GHz
Stop Freq 2.430000000 GHz
CF Step 6.000000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_3DH5_2402_Hopping Off



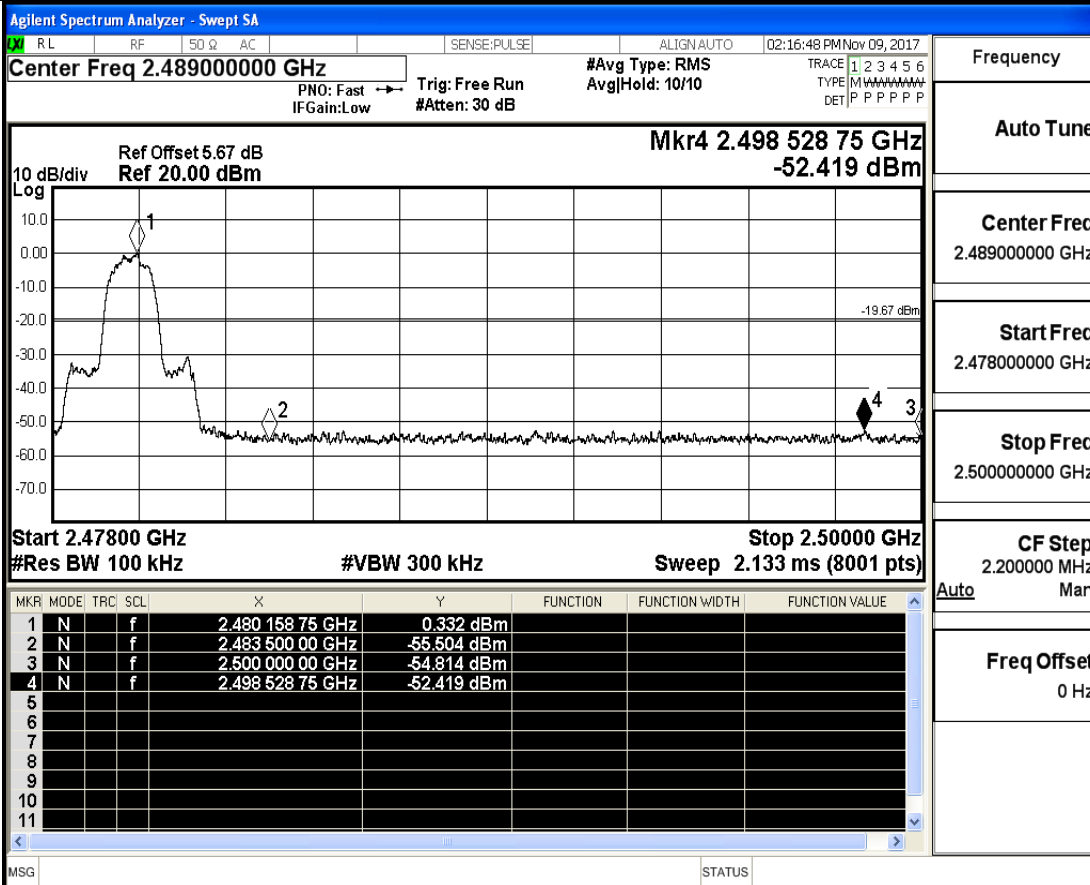
Frequency
Auto Tune
Center Freq 2.35700000 GHz
Start Freq 2.310000000 GHz
Stop Freq 2.404000000 GHz
CF Step 9.400000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_3DH5_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 Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_3DH5_2480_Hopping Off

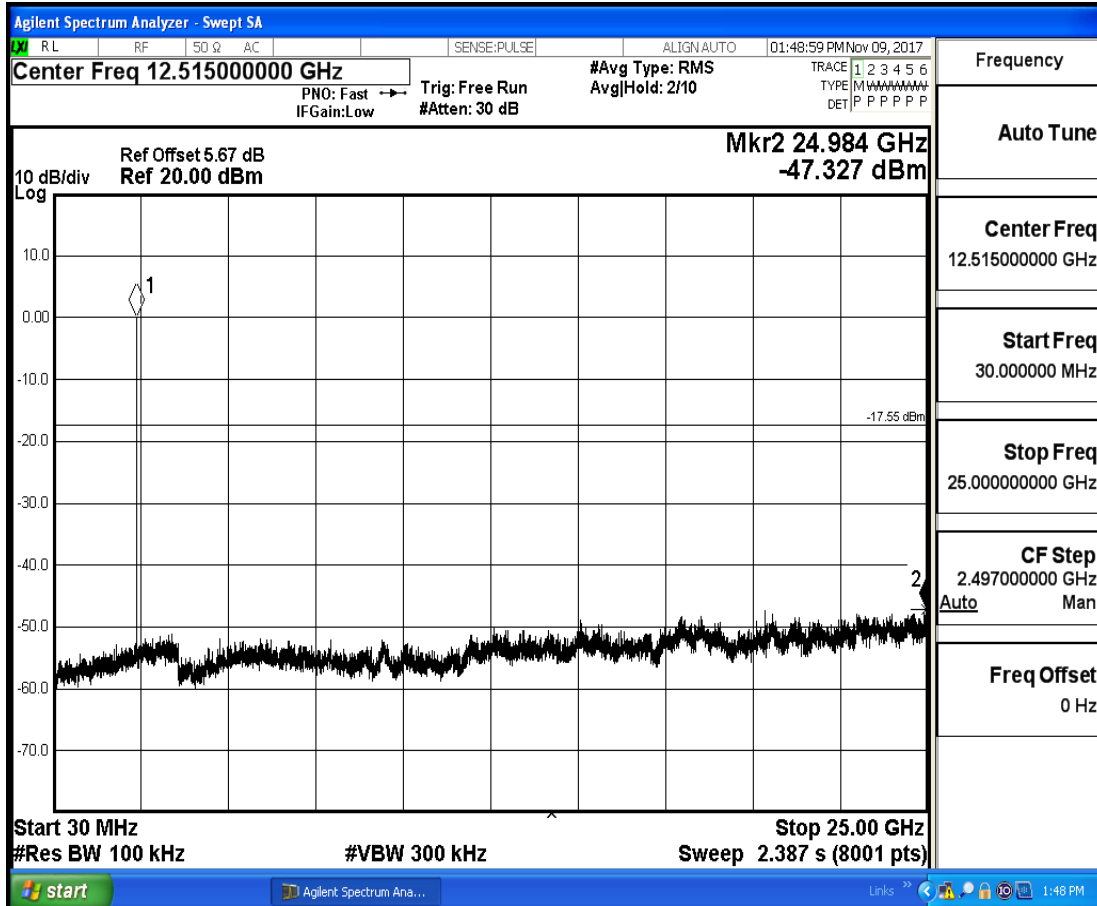
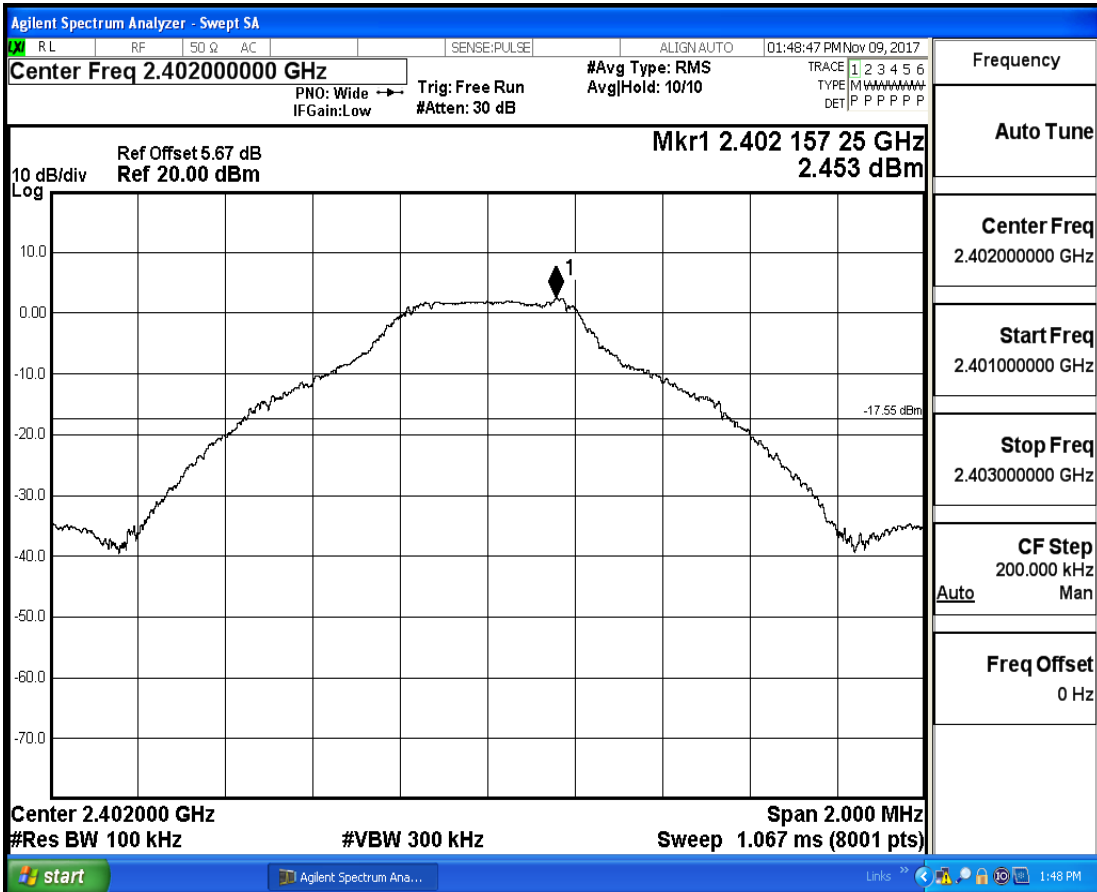


Frequency
Auto Tune
Center Freq 2.489000000 GHz
Start Freq 2.478000000 GHz
Stop Freq 2.500000000 GHz
CF Step 2.200000 MHz Auto Man
Freq Offset 0 Hz

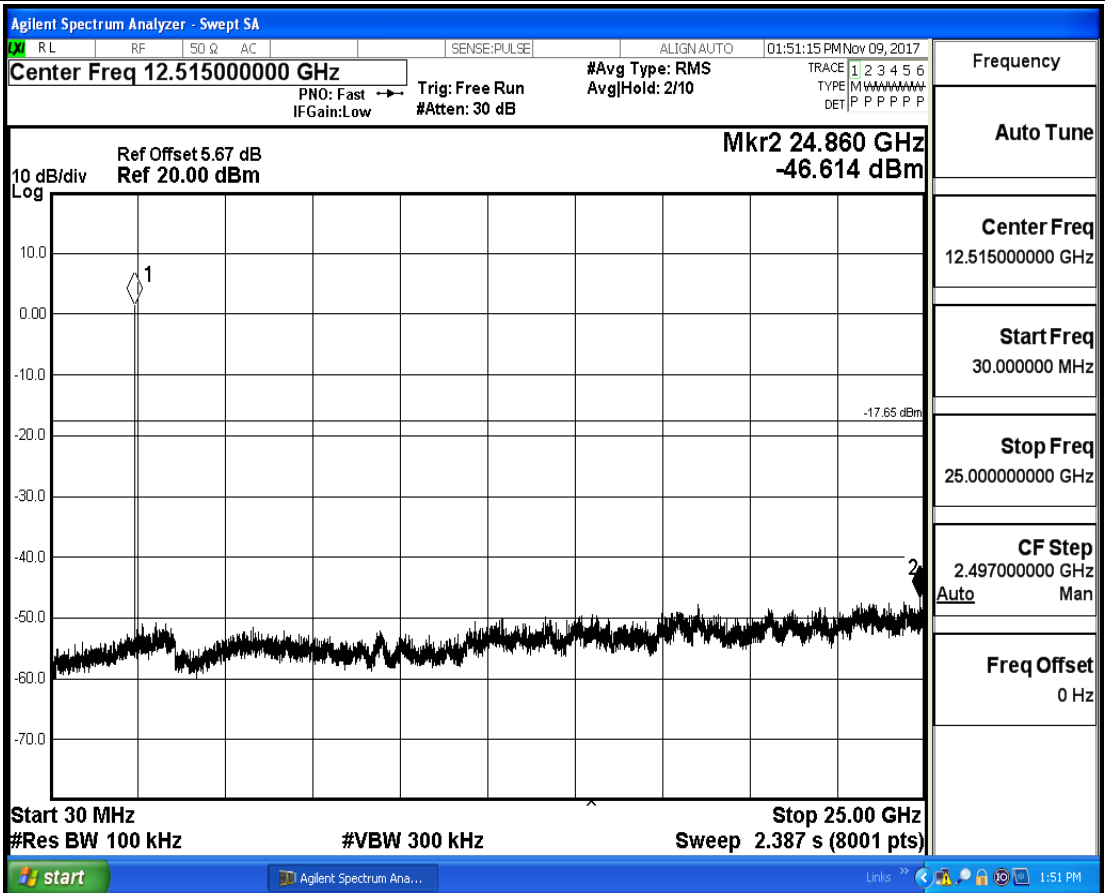
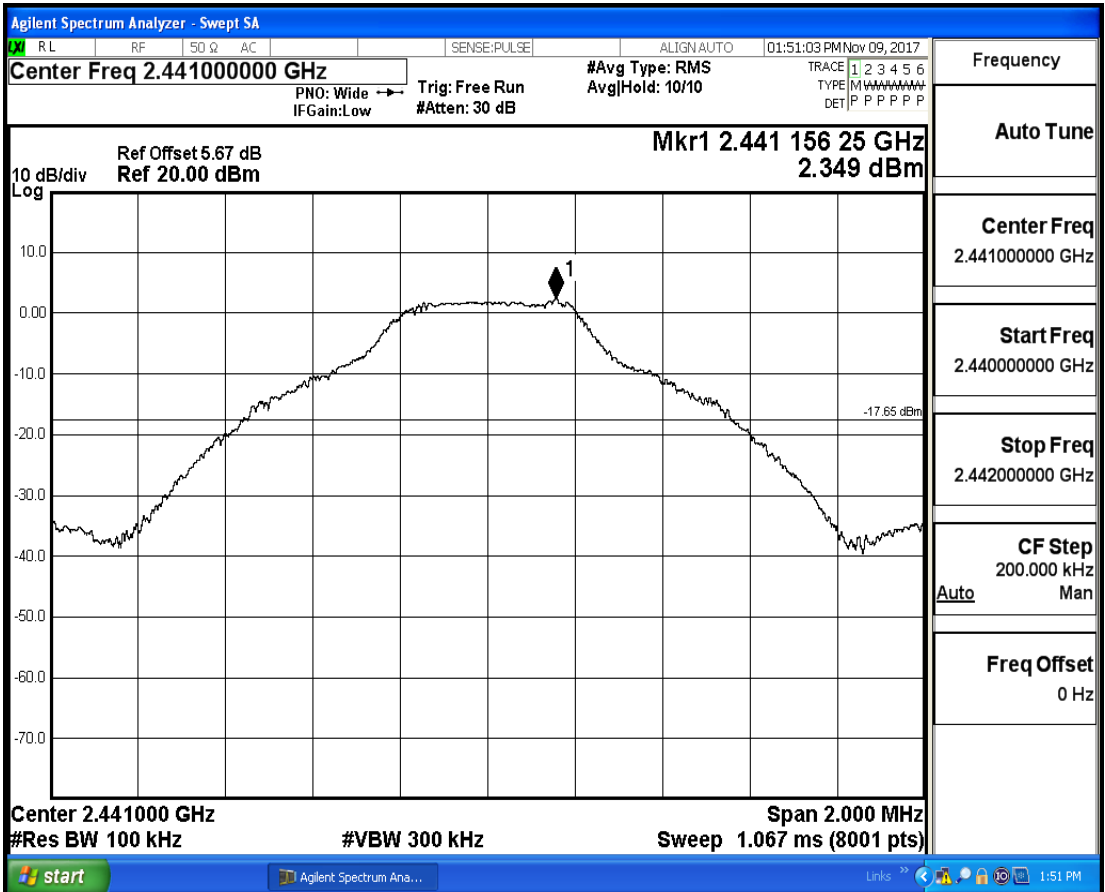
7.RF Conducted Spurious Emissions

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	2.453	-47.327	<- 17.547	PASS
DH5	2441	30	25000	100	300	2.349	-46.614	<- 17.651	PASS
DH5	2480	30	25000	100	300	2.152	-47.130	<- 17.848	PASS
2DH5	2402	30	25000	100	300	0.708	-46.620	<- 19.292	PASS
2DH5	2441	30	25000	100	300	1.007	-46.914	<- 18.993	PASS
2DH5	2480	30	25000	100	300	0.634	-46.176	<- 19.366	PASS
3DH5	2402	30	25000	100	300	0.162	-46.269	<- 19.838	PASS
3DH5	2441	30	25000	100	300	0.726	-46.779	<- 19.274	PASS
3DH5	2480	30	25000	100	300	0.772	-47.227	<- 19.228	PASS

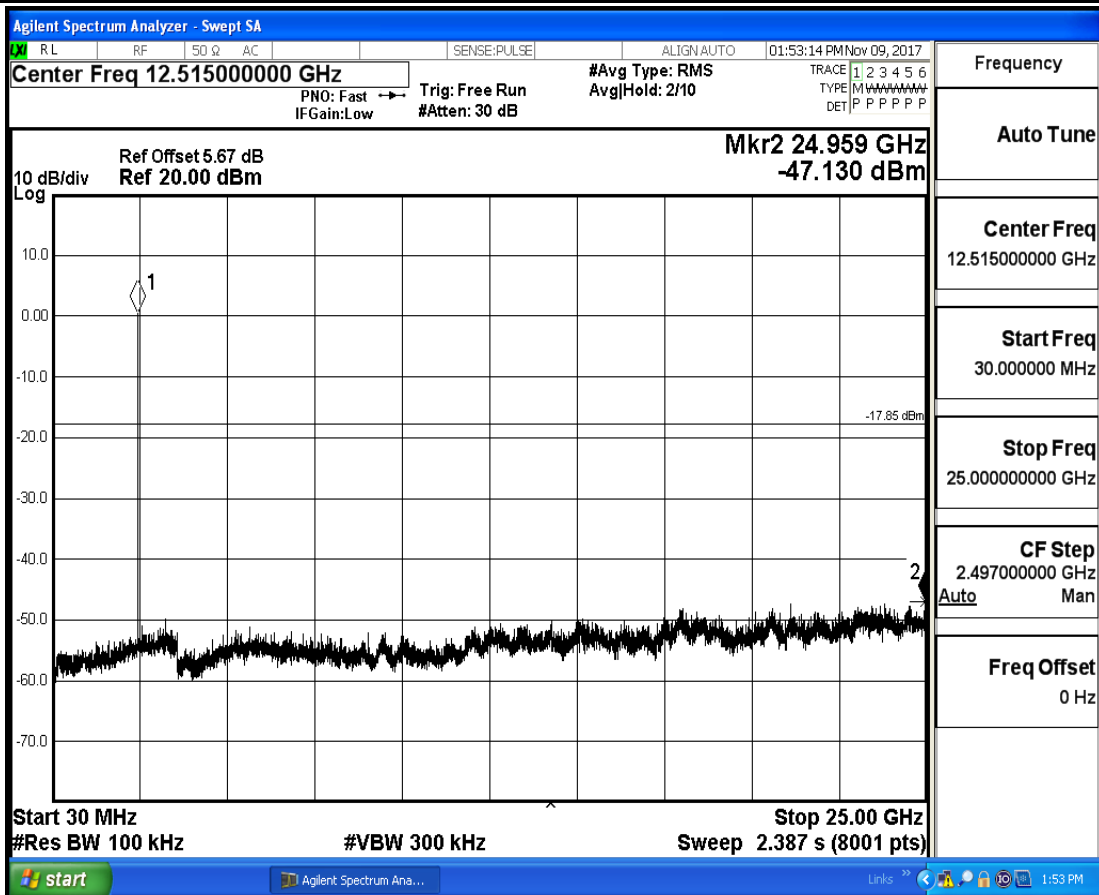
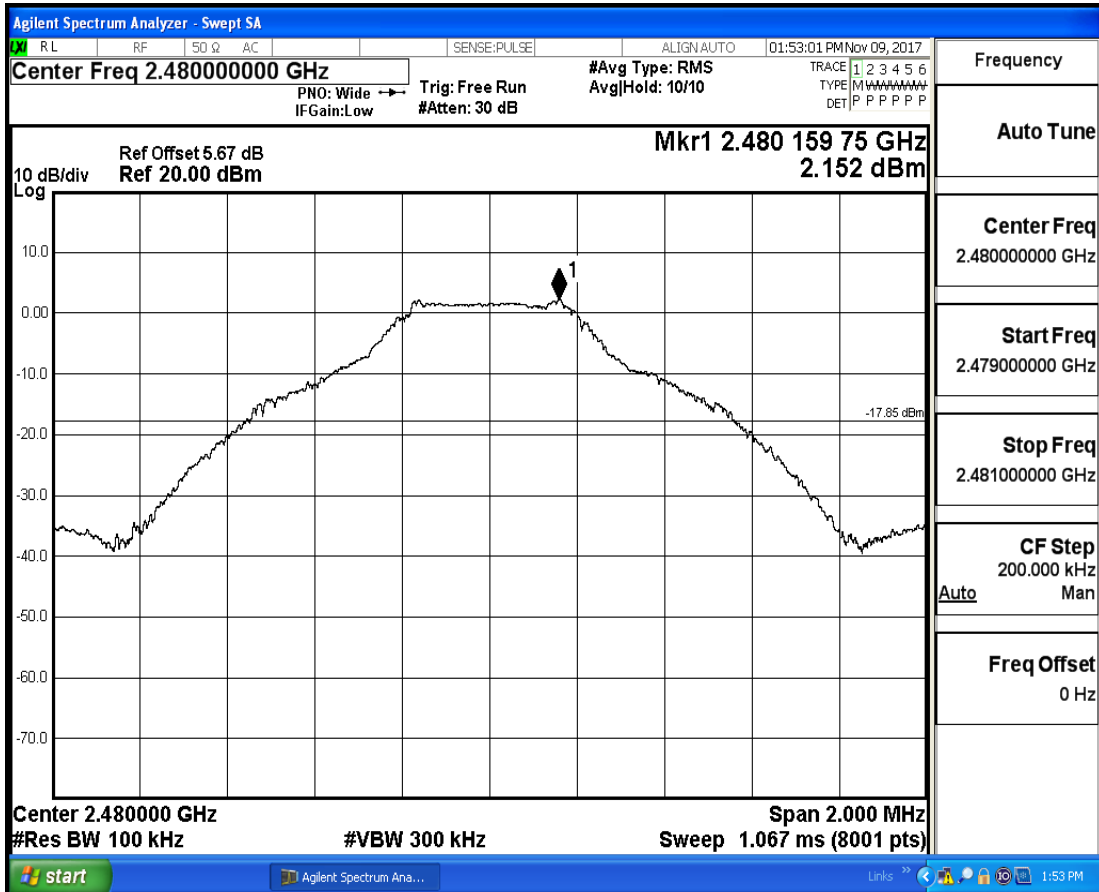
RF Conducted Spurious Emissions_DH5_2402



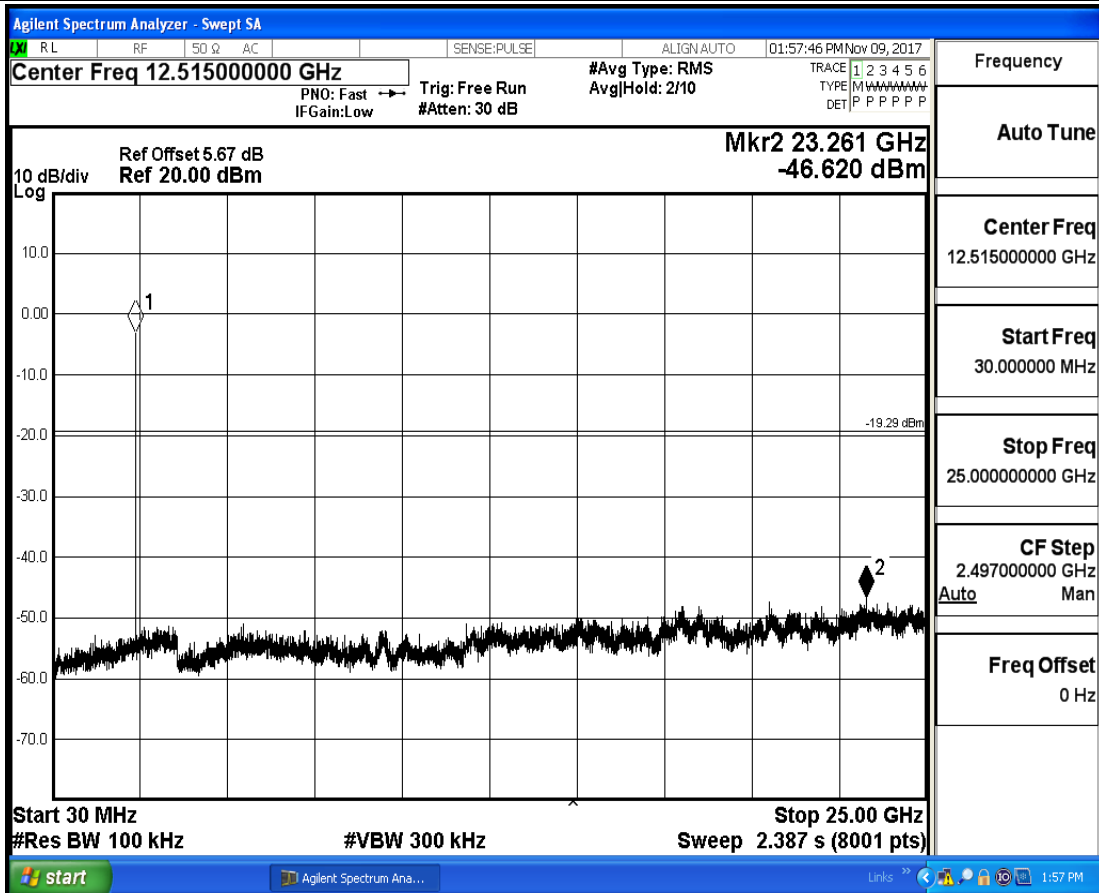
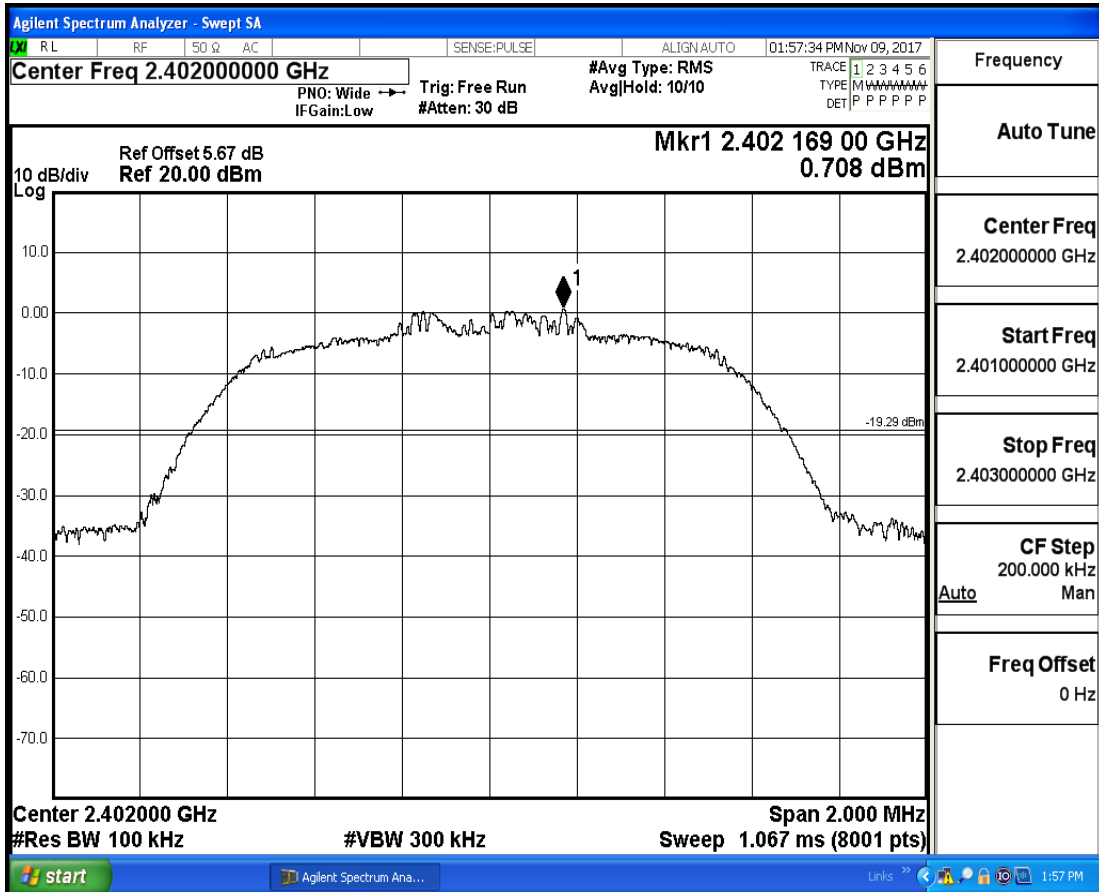
RF Conducted Spurious Emissions_DH5_2441



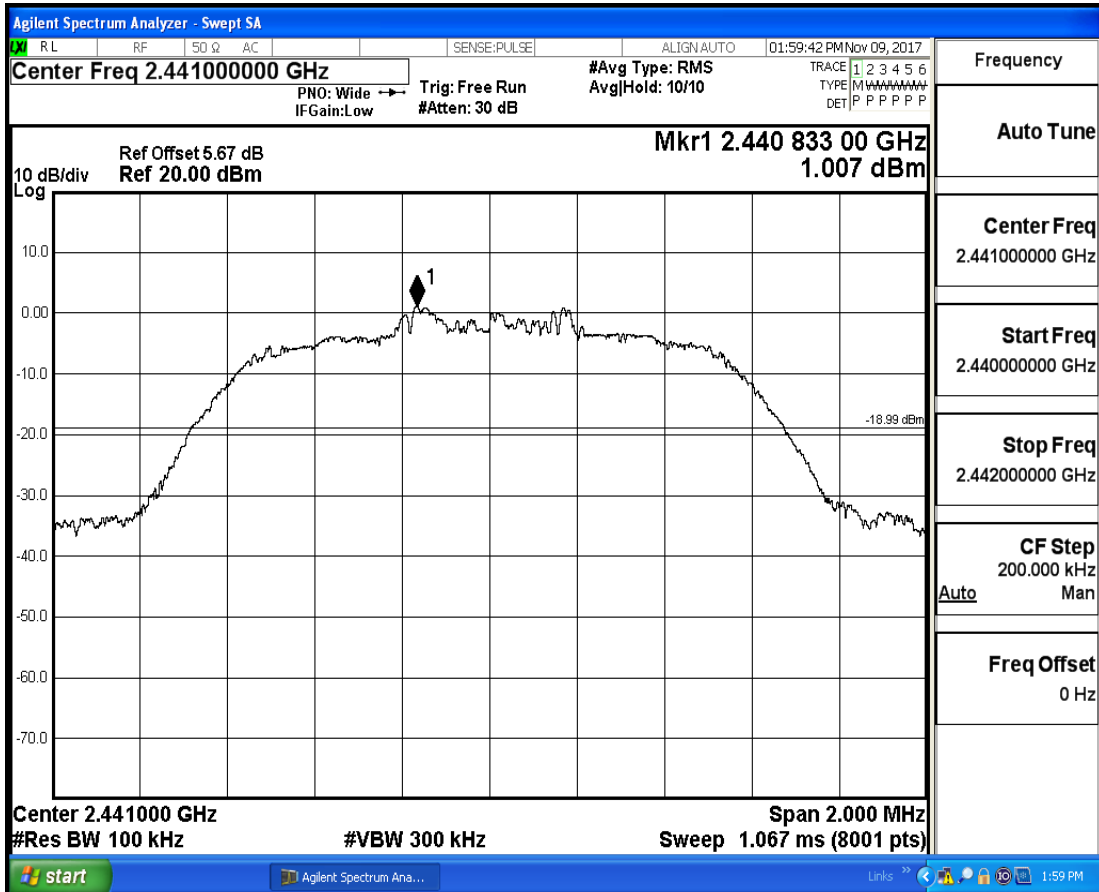
RF Conducted Spurious Emissions_DH5_2480



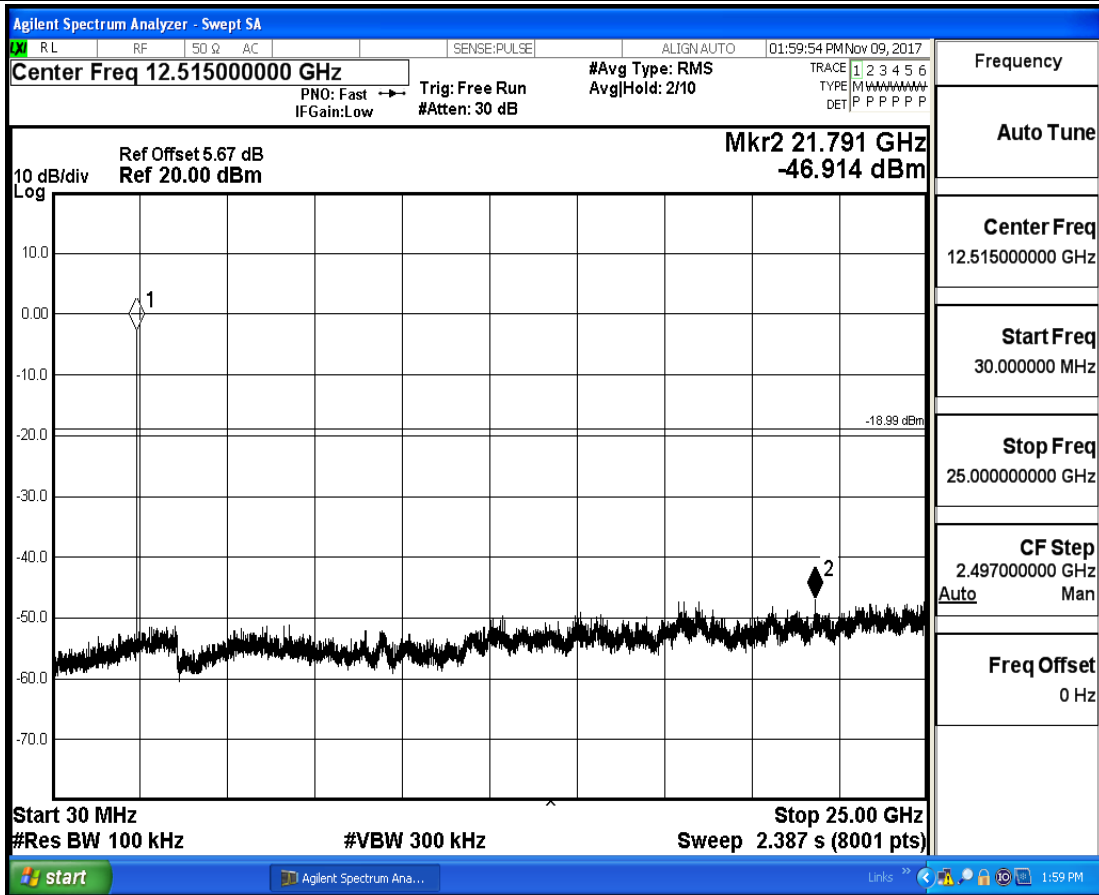
RF Conducted Spurious Emissions_2DH5_2402



RF Conducted Spurious Emissions_2DH5_2441

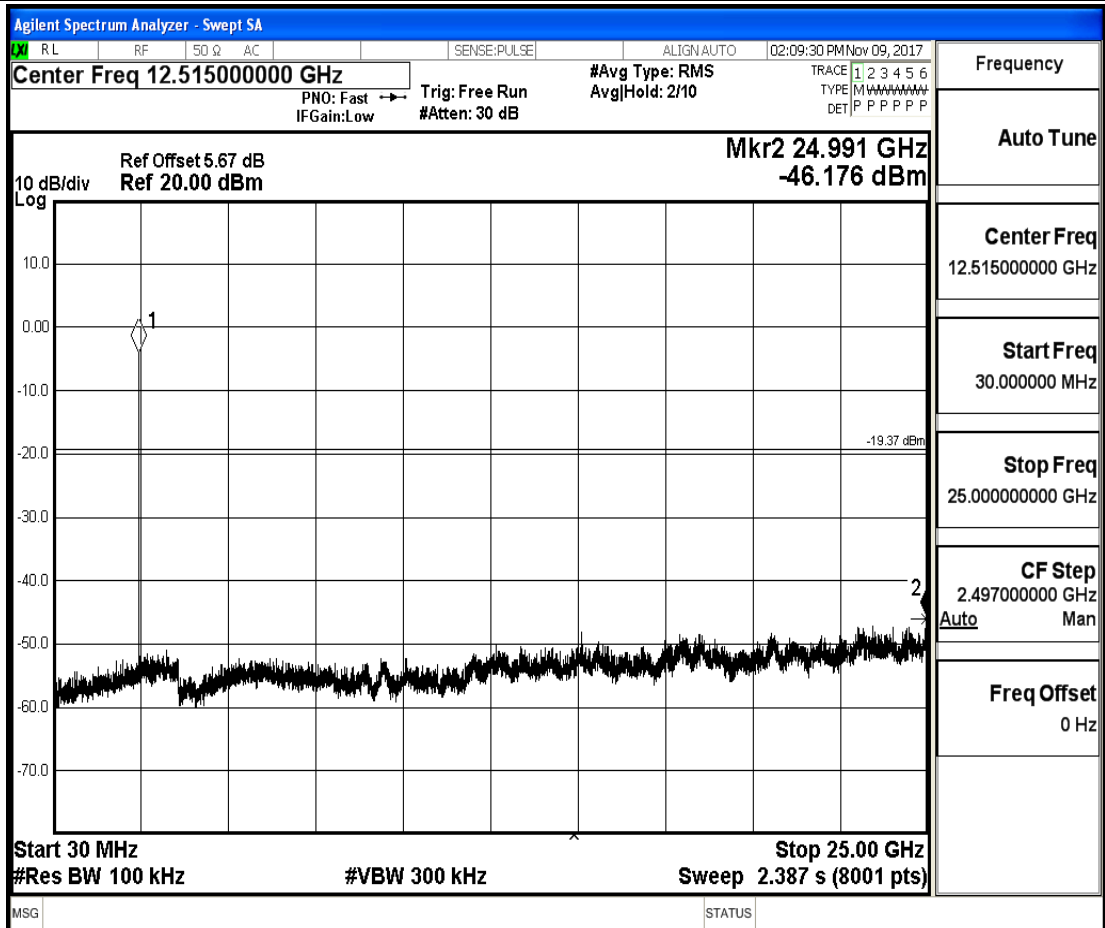
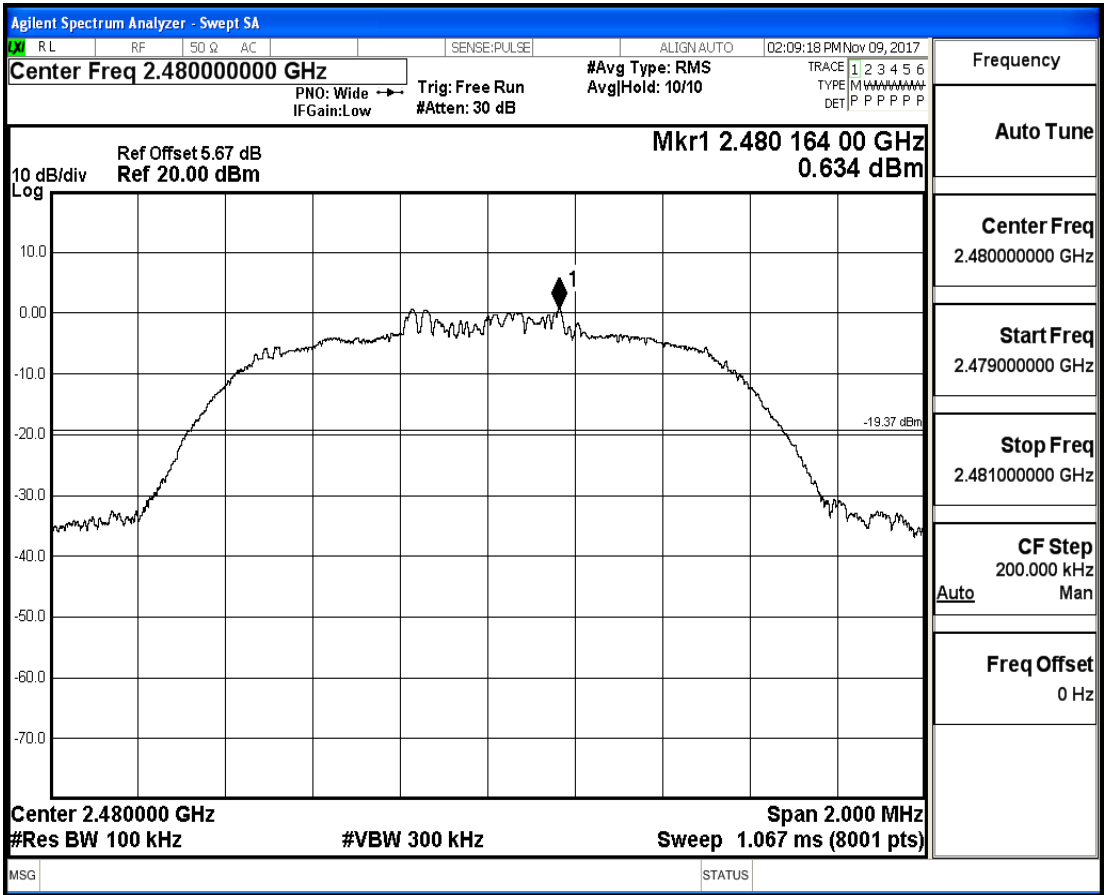


Frequency
Auto Tune
Center Freq 2.441000000 GHz
Start Freq 2.440000000 GHz
Stop Freq 2.442000000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz

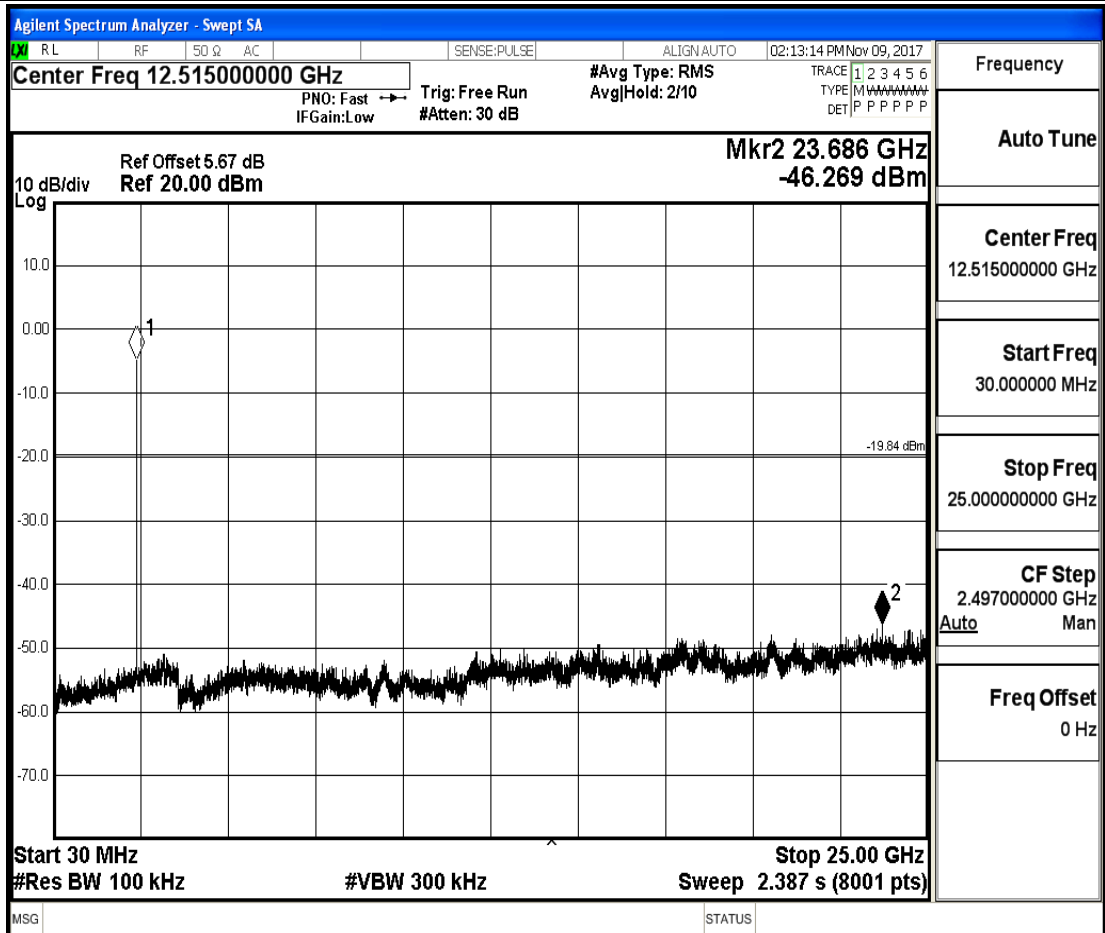
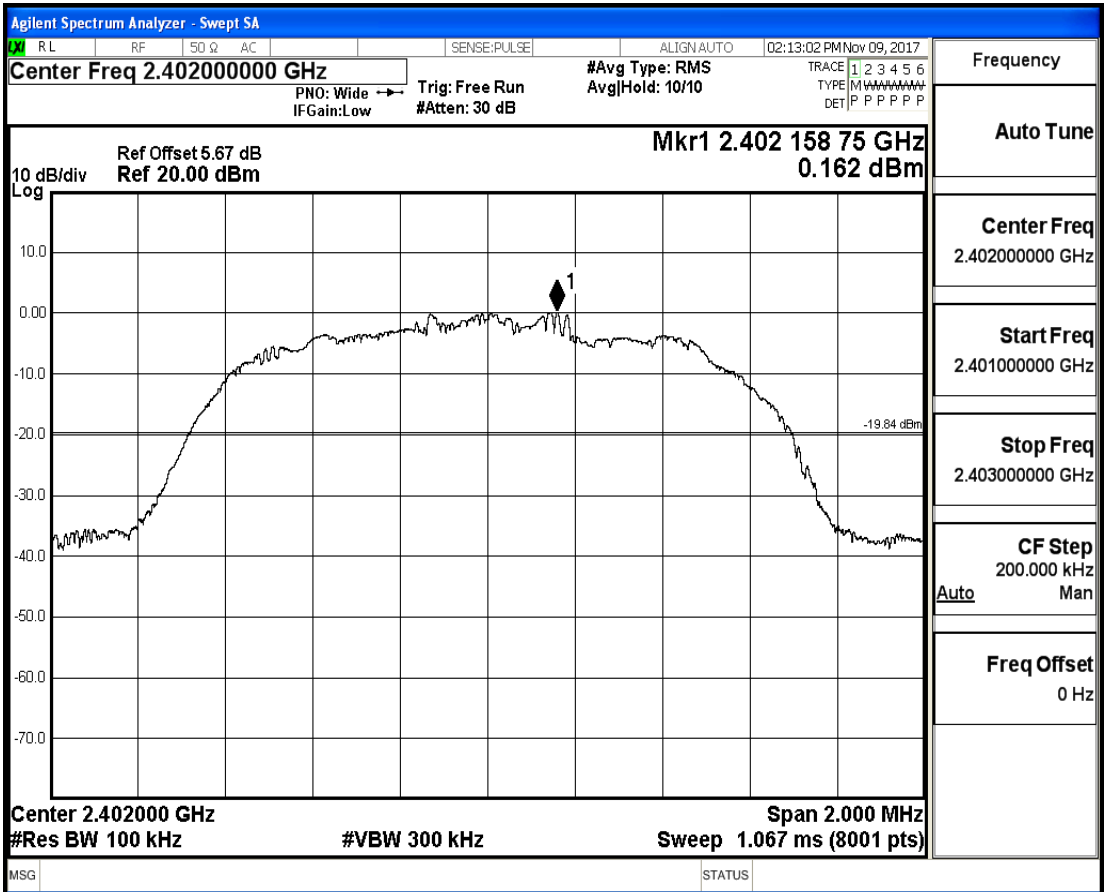


Frequency
Auto Tune
Center Freq 12.515000000 GHz
Start Freq 30.0000000 MHz
Stop Freq 25.000000000 GHz
CF Step 2.497000000 GHz Auto Man
Freq Offset 0 Hz

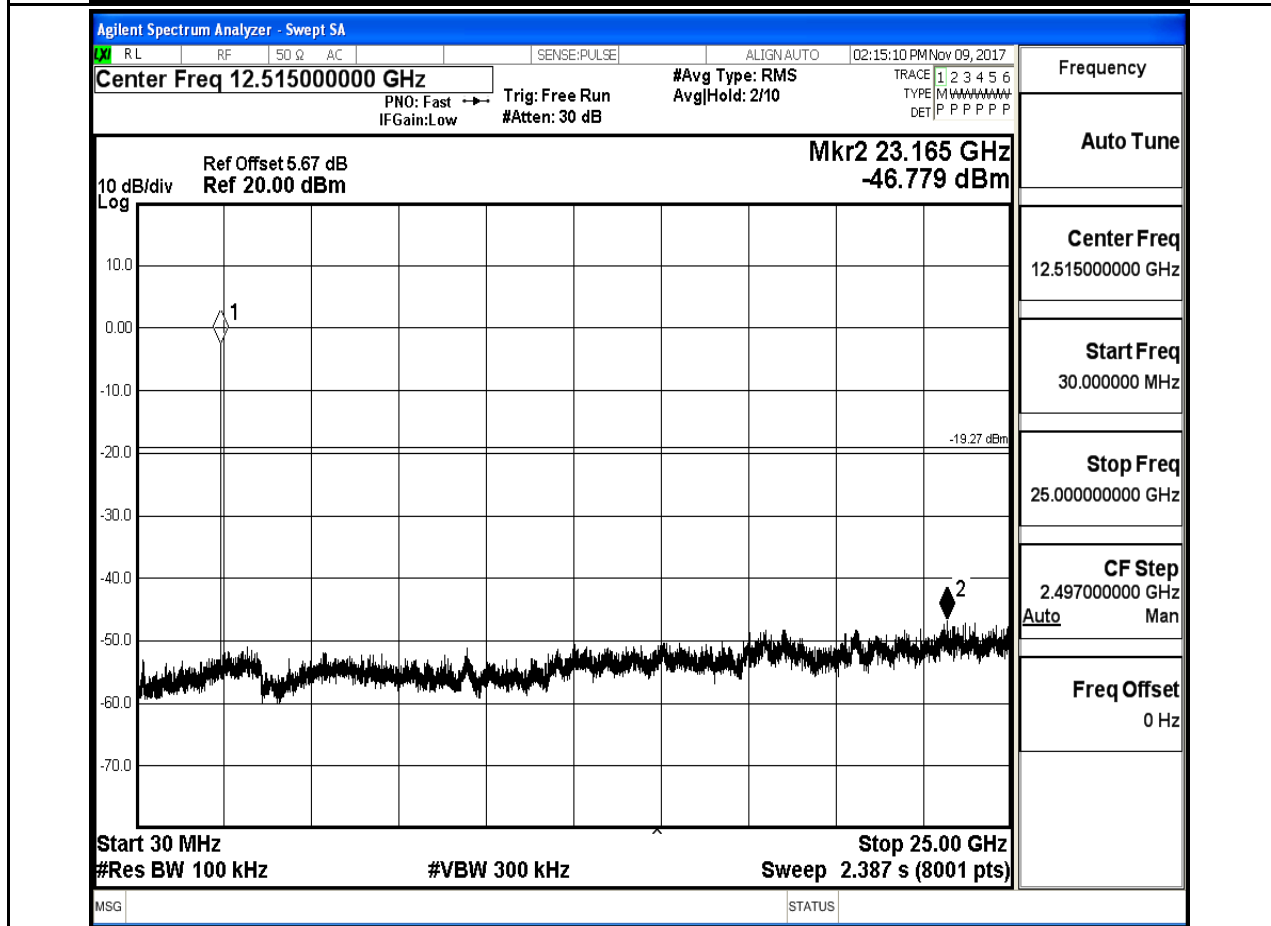
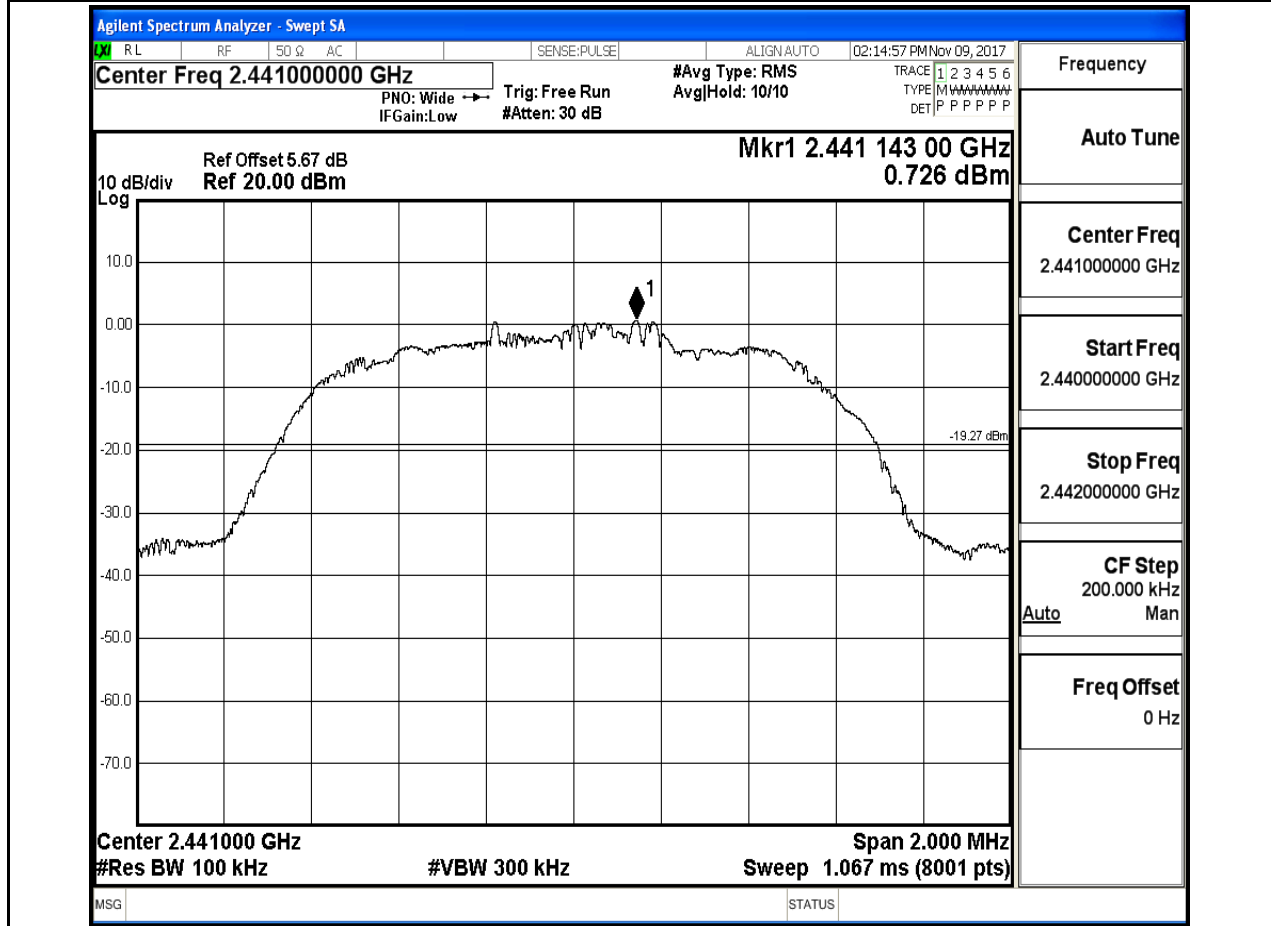
RF Conducted Spurious Emissions_2DH5_2480



RF Conducted Spurious Emissions_3DH5_2402



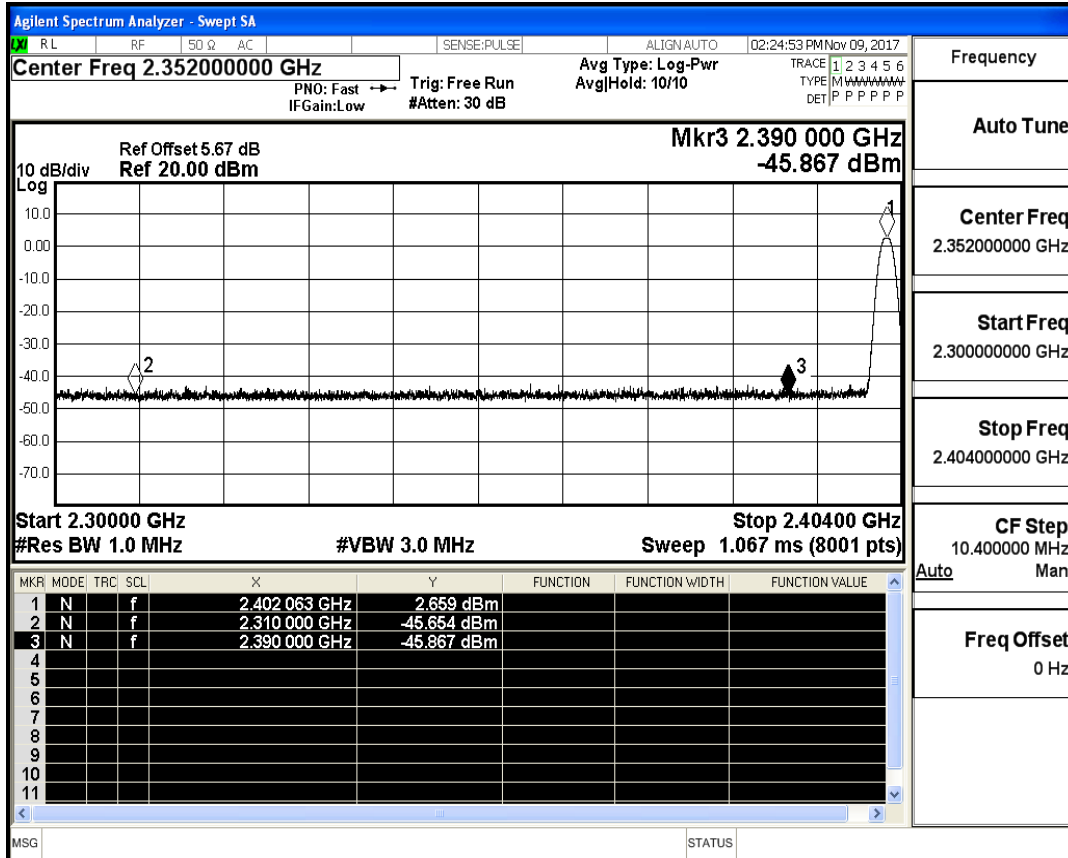
RF Conducted Spurious Emissions_3DH5_2441



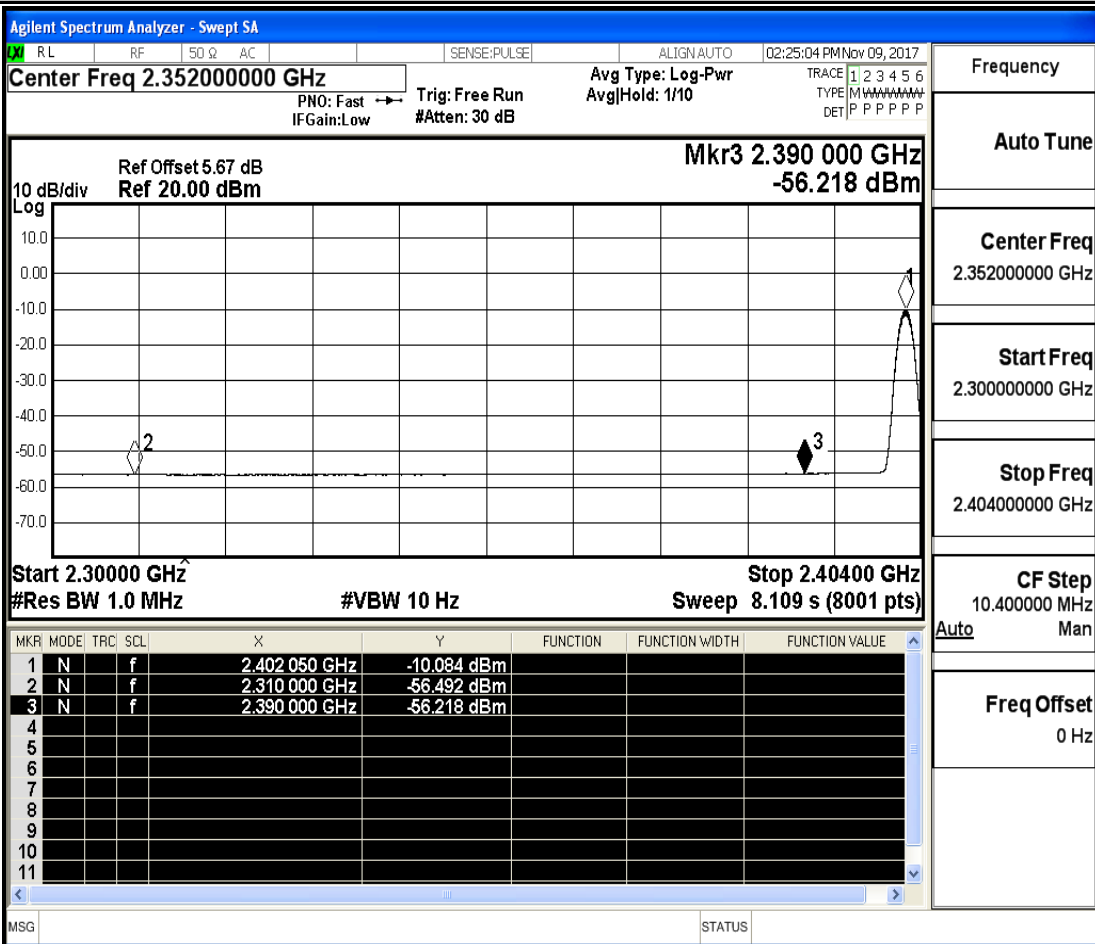
8.Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
DH5	On	2310.0	-45.65	2.00	0	51.610	PEAK	74	PASS
DH5	On	2390.0	-45.87	2.00	0	51.390	PEAK	74	PASS
DH5	On	2483.5	-45.83	2.00	0	51.430	PEAK	74	PASS
DH5	On	2500.0	-45.12	2.00	0	52.140	PEAK	74	PASS
2DH5	On	2310.0	-45.64	2.00	0	51.620	PEAK	74	PASS
2DH5	On	2390.0	-46.08	2.00	0	51.180	PEAK	74	PASS
2DH5	On	2483.5	-44.66	2.00	0	52.600	PEAK	74	PASS
2DH5	On	2500.0	-45.77	2.00	0	51.490	PEAK	74	PASS
3DH5	On	2310.0	-46.54	2.00	0	50.720	PEAK	74	PASS
3DH5	On	2390.0	-45.76	2.00	0	51.500	PEAK	74	PASS
3DH5	On	2483.5	-44.89	2.00	0	52.370	PEAK	74	PASS
3DH5	On	2500.0	-46.02	2.00	0	51.240	PEAK	74	PASS

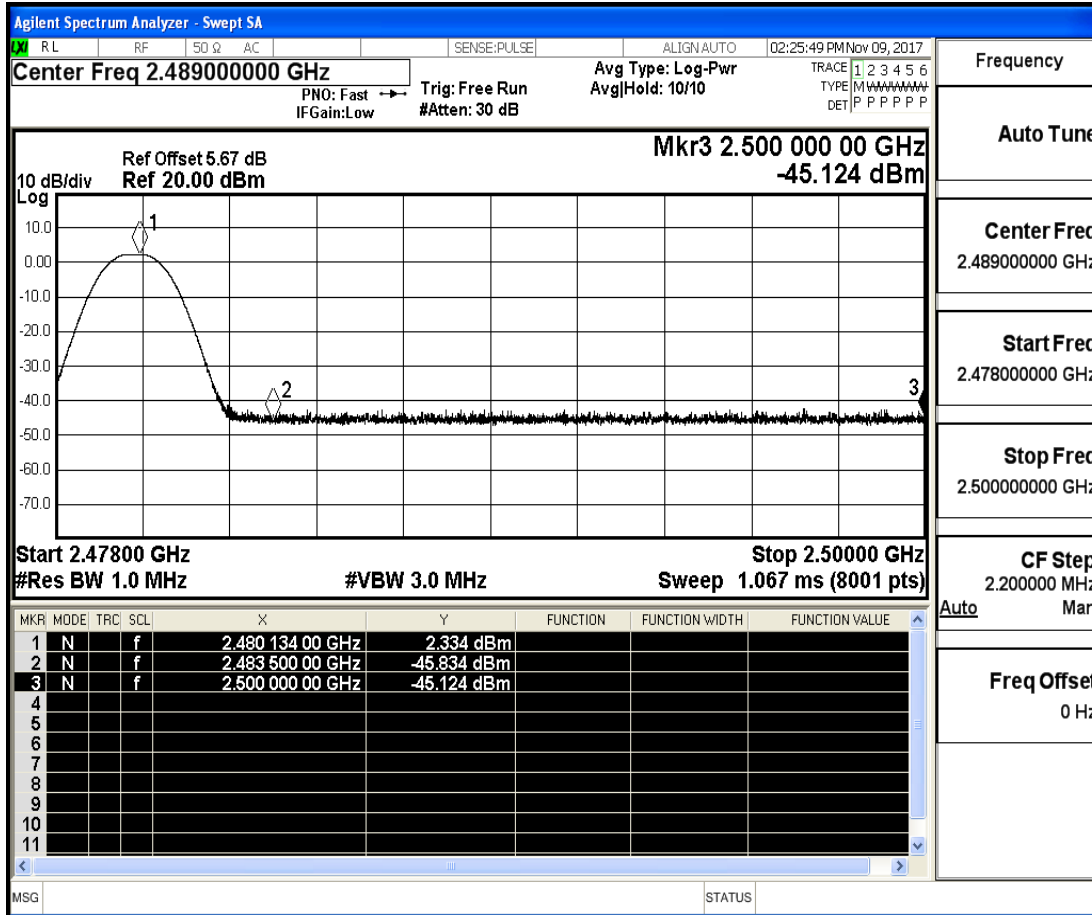
Restrict-band band-edge measurements_DH5_2402_PEAK



Restrict-band band-edge measurements_DH5_2402_AV

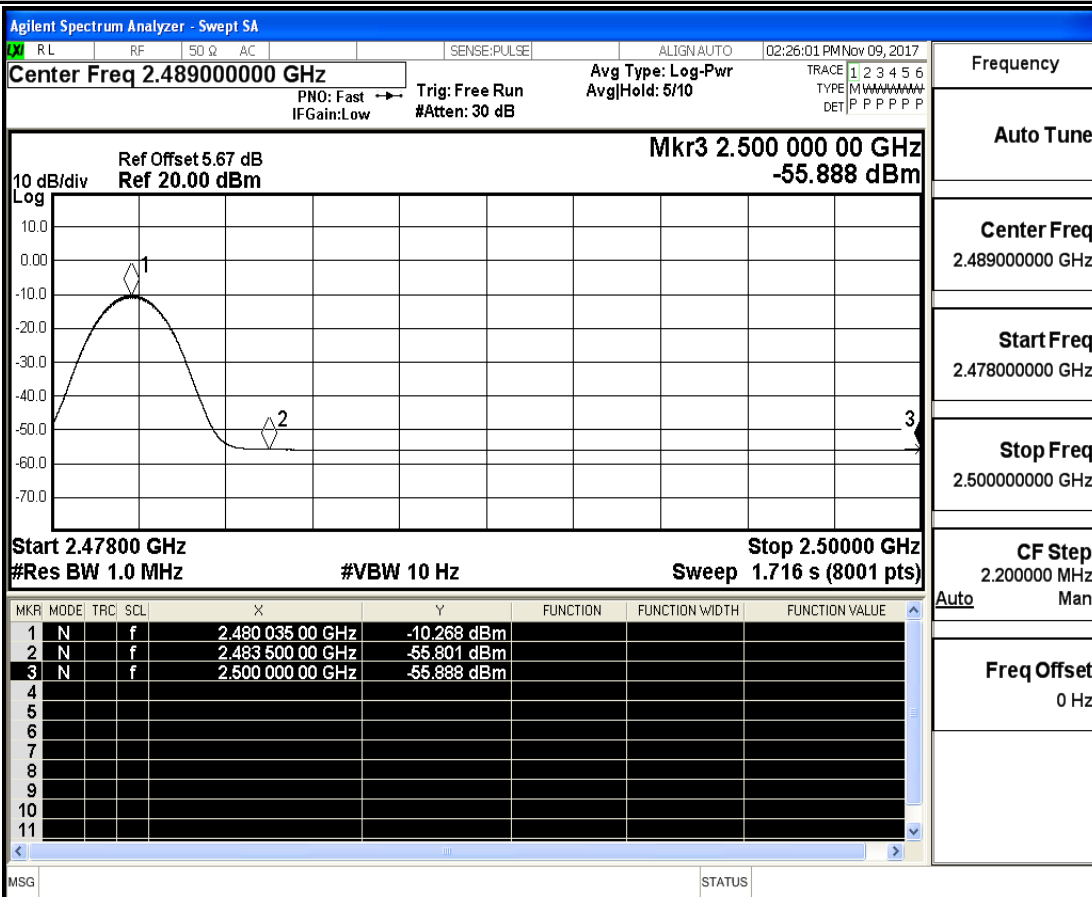


Restrict-band band-edge measurements_DH5_2480_PEAK



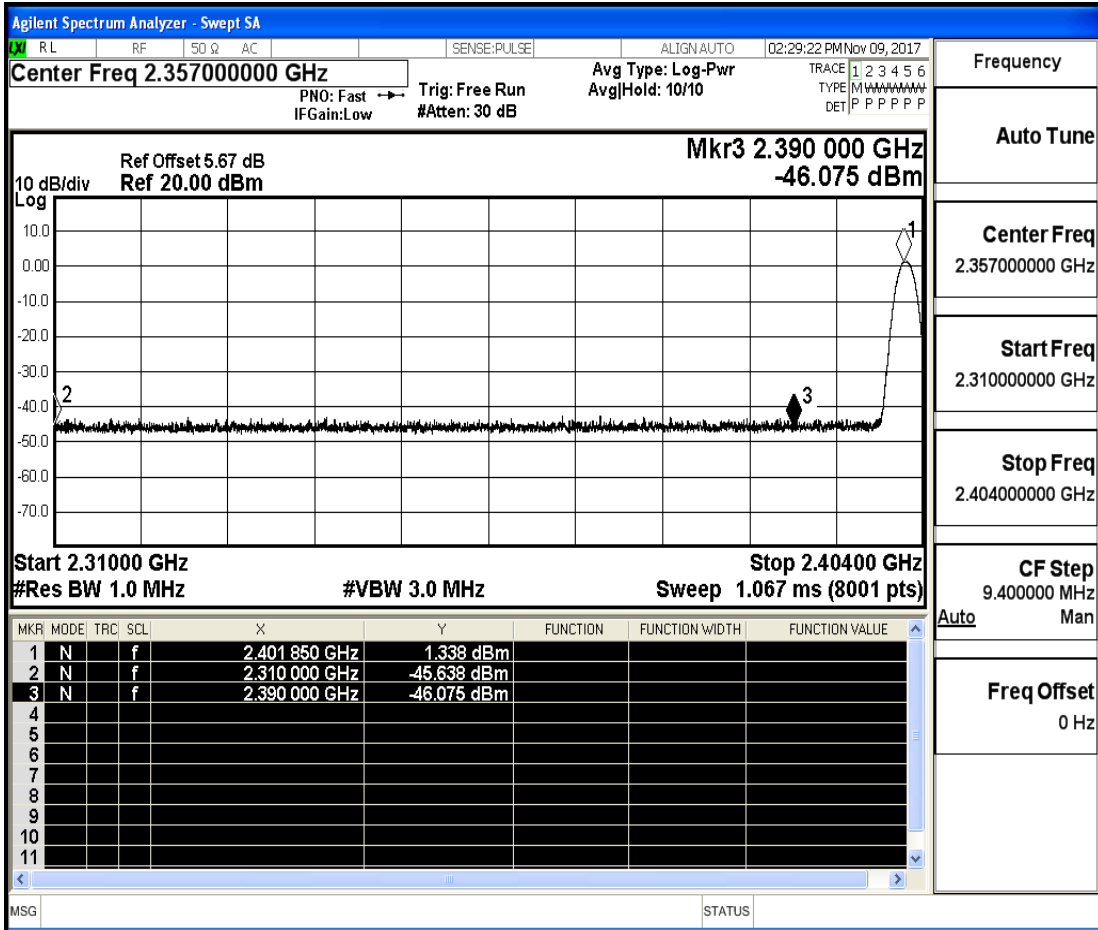
Frequency	
Auto Tune	
Center Freq	2.489000000 GHz
Start Freq	2.478000000 GHz
Stop Freq	2.500000000 GHz
CF Step	2.200000 MHz
Auto	Man
Freq Offset	0 Hz

Restrict-band band-edge measurements_DH5_2480_AV



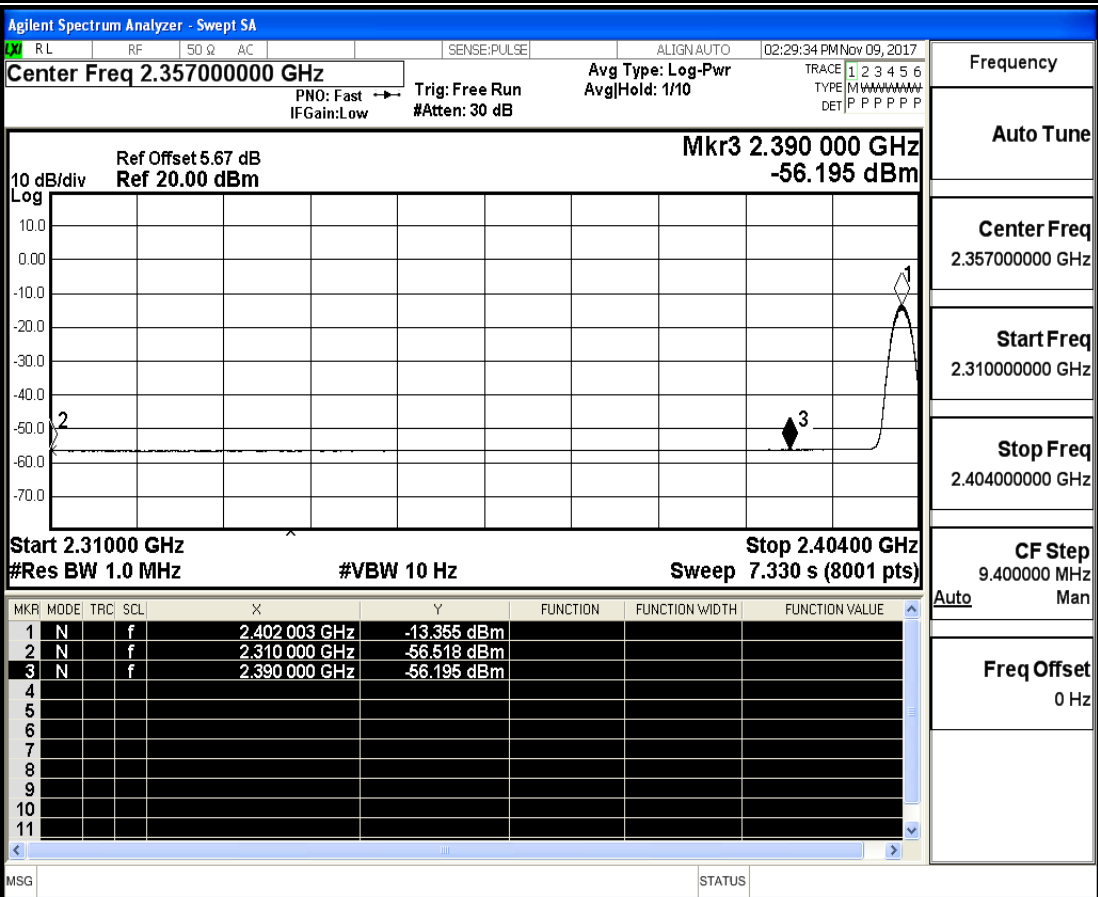
Frequency	
Auto Tune	
Center Freq	2.489000000 GHz
Start Freq	2.478000000 GHz
Stop Freq	2.500000000 GHz
CF Step	2.200000 MHz
Auto	Man
Freq Offset	0 Hz

Restrict-band band-edge measurements_2DH5_2402_PEAK



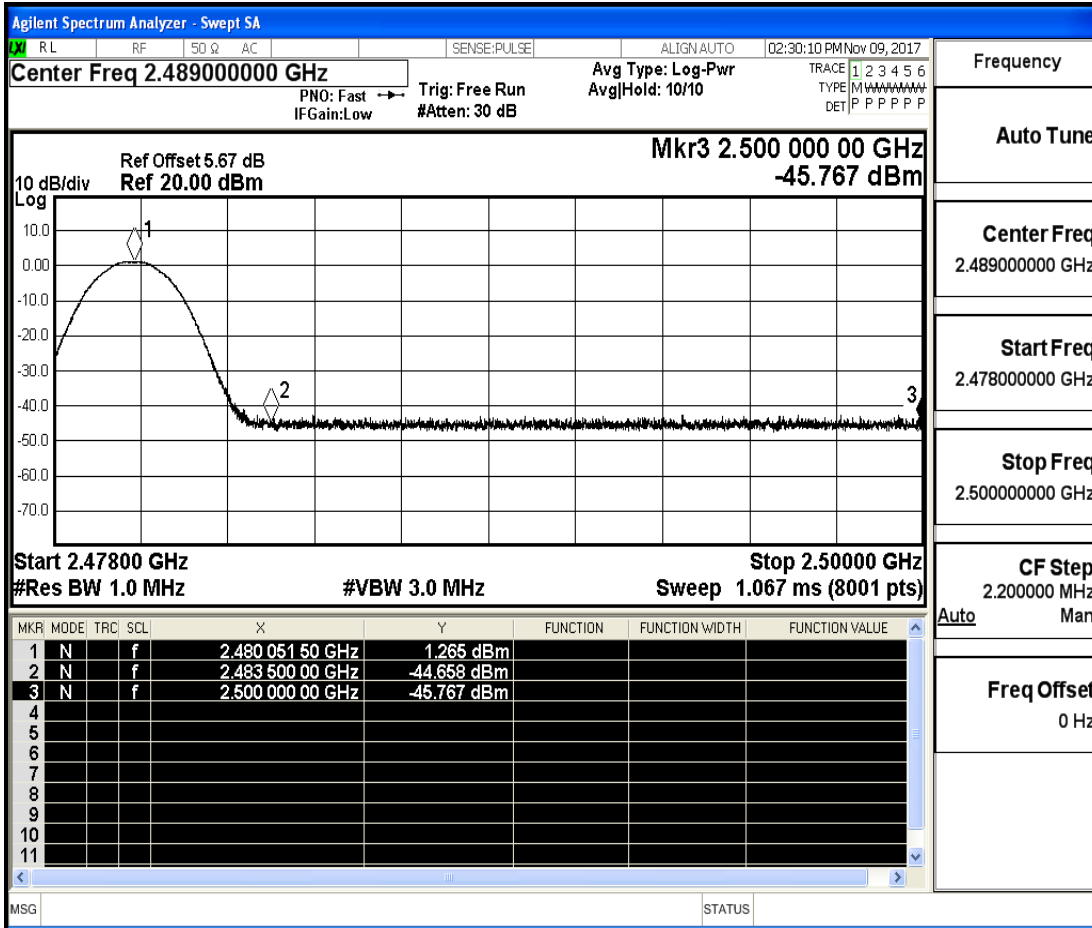
Frequency
Auto Tune
Center Freq 2.357000000 GHz
Start Freq 2.310000000 GHz
Stop Freq 2.404000000 GHz
CF Step 9.400000 MHz Auto Man
Freq Offset 0 Hz

Restrict-band band-edge measurements_2DH5_2402_AV



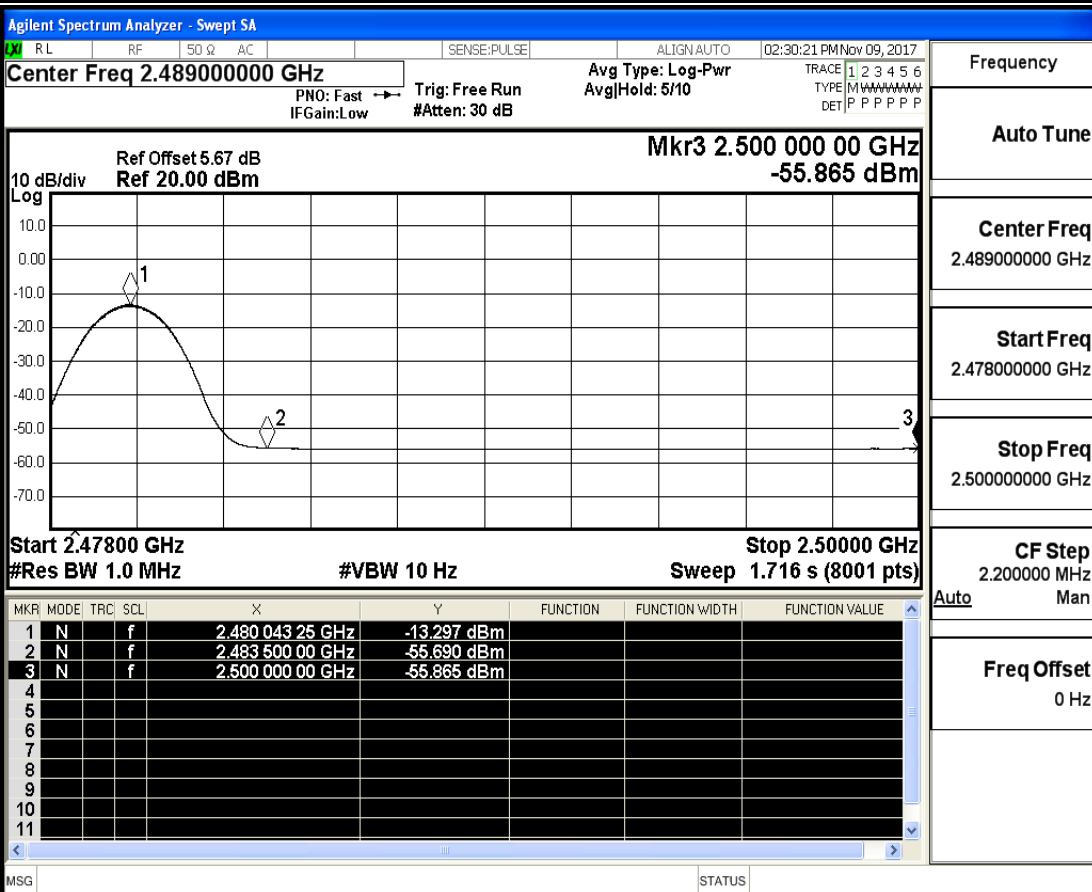
Frequency
Auto Tune
Center Freq 2.357000000 GHz
Start Freq 2.310000000 GHz
Stop Freq 2.404000000 GHz
CF Step 9.400000 MHz Auto Man
Freq Offset 0 Hz

Restrict-band band-edge measurements_2DH5_2480_PEAK



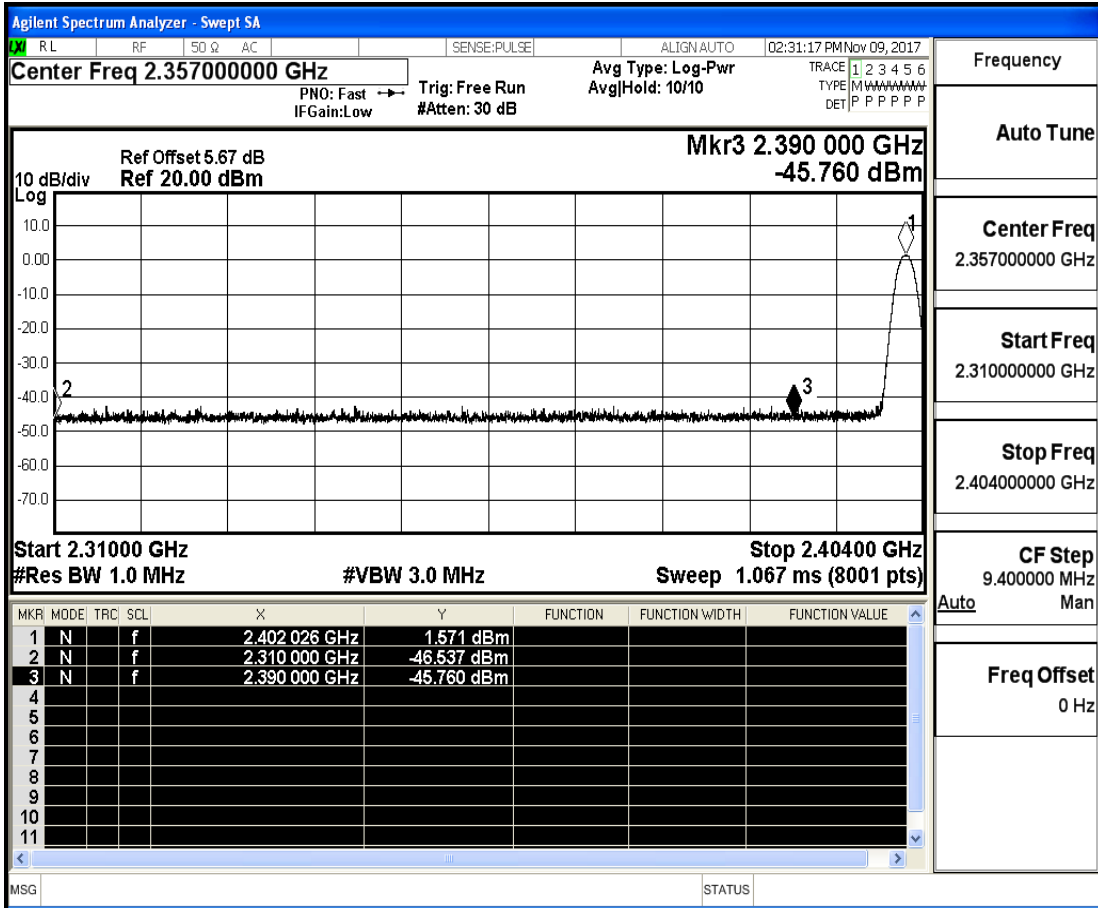
Frequency
Auto Tune
Center Freq 2.489000000 GHz
Start Freq 2.478000000 GHz
Stop Freq 2.500000000 GHz
CF Step 2.200000 MHz
Auto Man
Freq Offset 0 Hz

Restrict-band band-edge measurements_2DH5_2480_AV

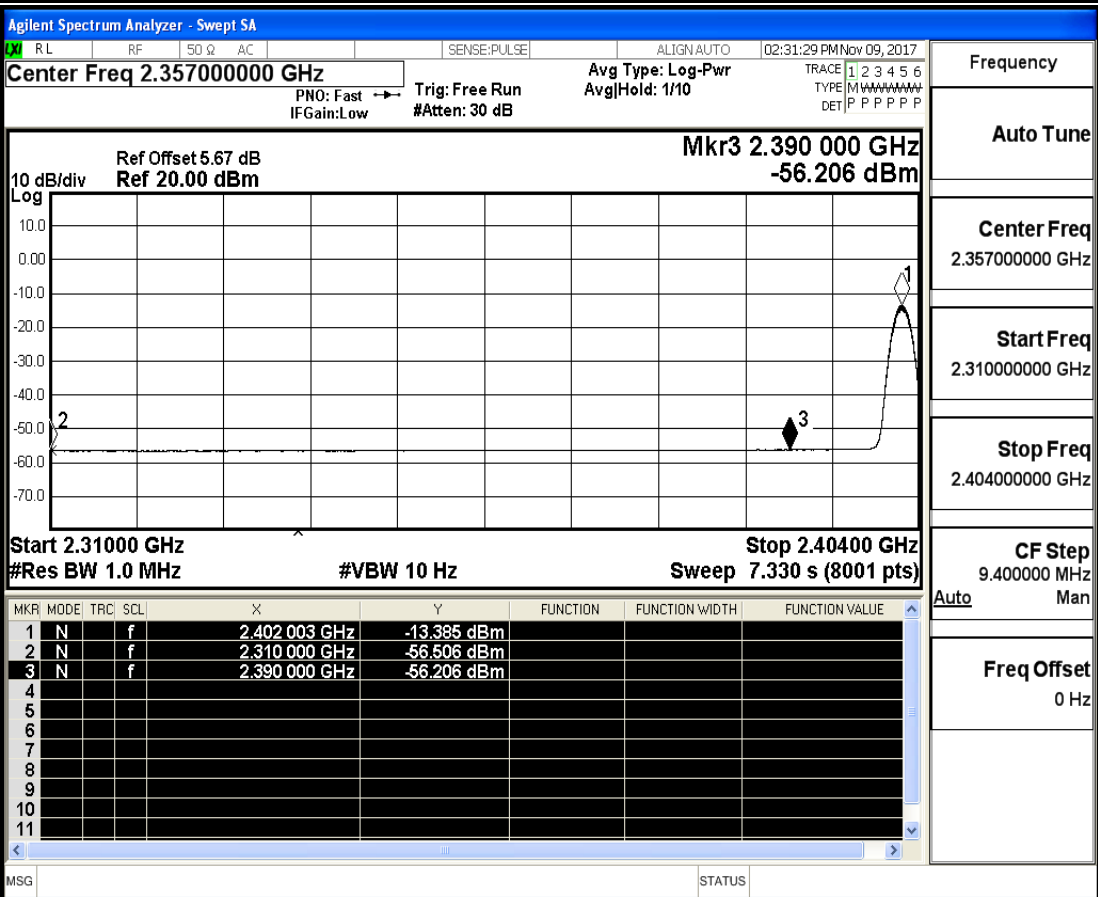


Frequency
Auto Tune
Center Freq 2.489000000 GHz
Start Freq 2.478000000 GHz
Stop Freq 2.500000000 GHz
CF Step 2.200000 MHz
Auto Man
Freq Offset 0 Hz

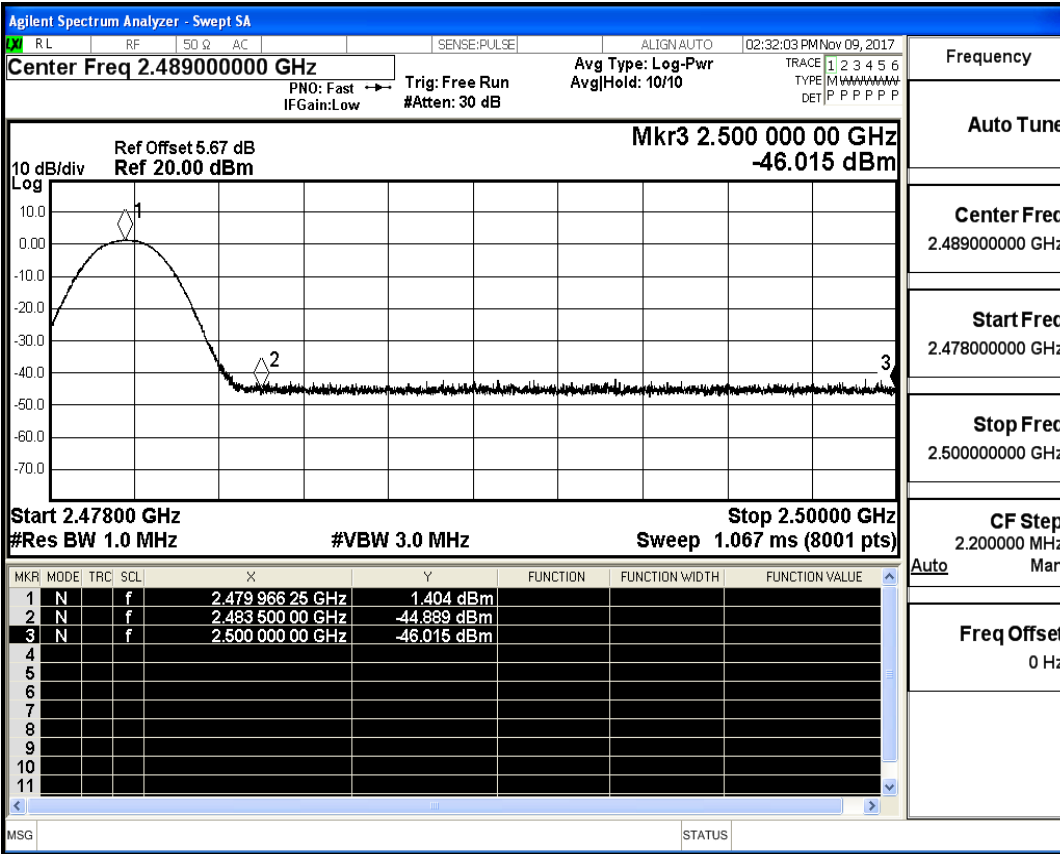
Restrict-band band-edge measurements_3DH5_2402_PEAK



Restrict-band band-edge measurements_3DH5_2402_AV



Restrict-band band-edge measurements_3DH5_2480_PEAK



Restrict-band band-edge measurements_3DH5_2480_AV

