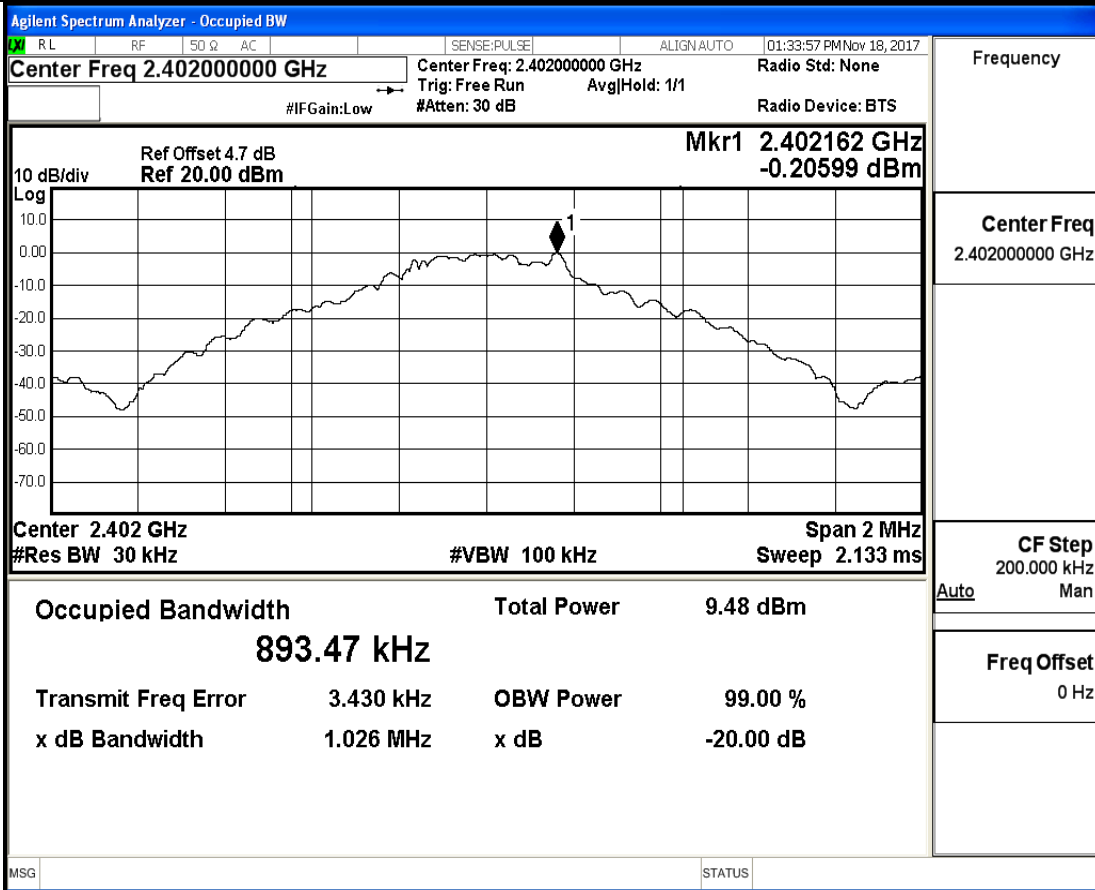


1.20 dB and 99% Bandwidth

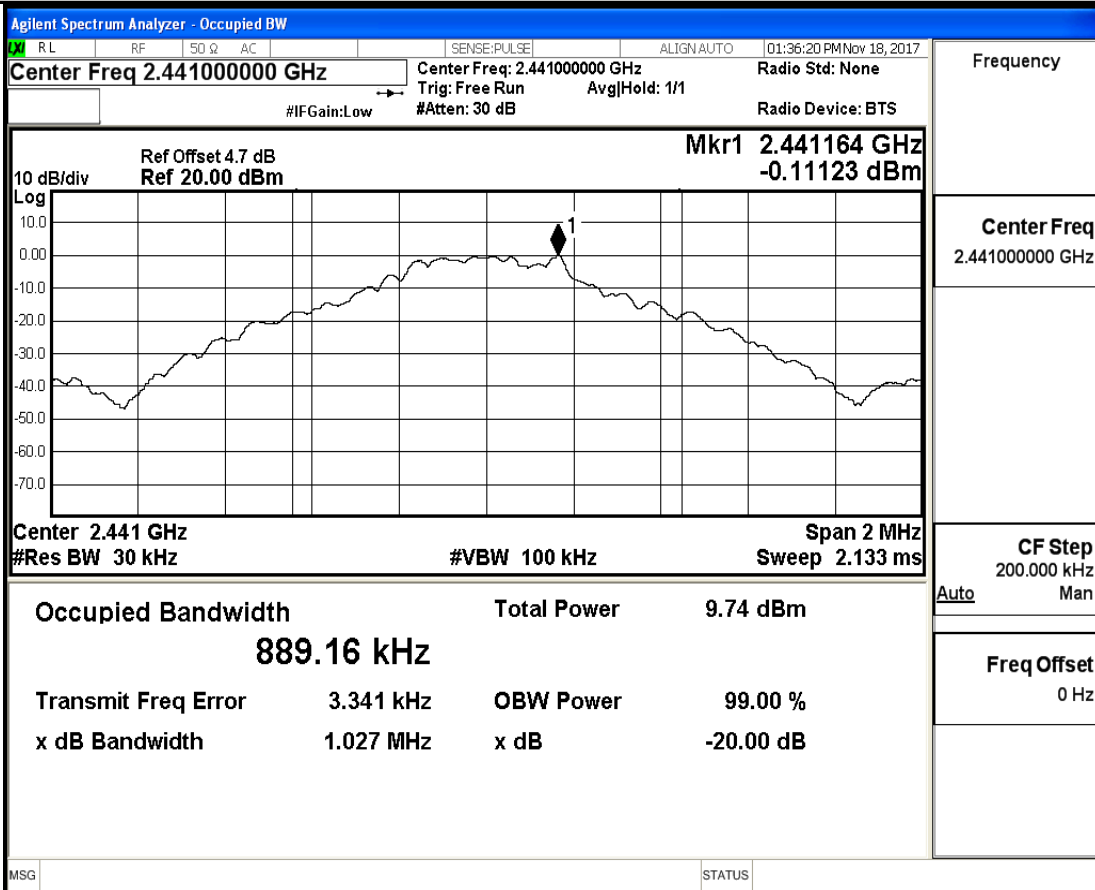
Test Mode	Test Channel	20 dB OBW[MHz]	99% OBW[MHz]	Limit[MHz]	Verdict
DH5	2402	1.026	0.89347	---	PASS
DH5	2441	1.027	0.88916	---	PASS
DH5	2480	1.031	0.89506	---	PASS
2DH5	2402	1.288	1.1609	---	PASS
2DH5	2441	1.293	1.1738	---	PASS
2DH5	2480	1.291	1.1734	---	PASS
3DH5	2402	1.292	1.1795	---	PASS
3DH5	2441	1.294	1.1828	---	PASS
3DH5	2480	1.297	1.1857	---	PASS

20 dB Bandwidth_DH5_2402



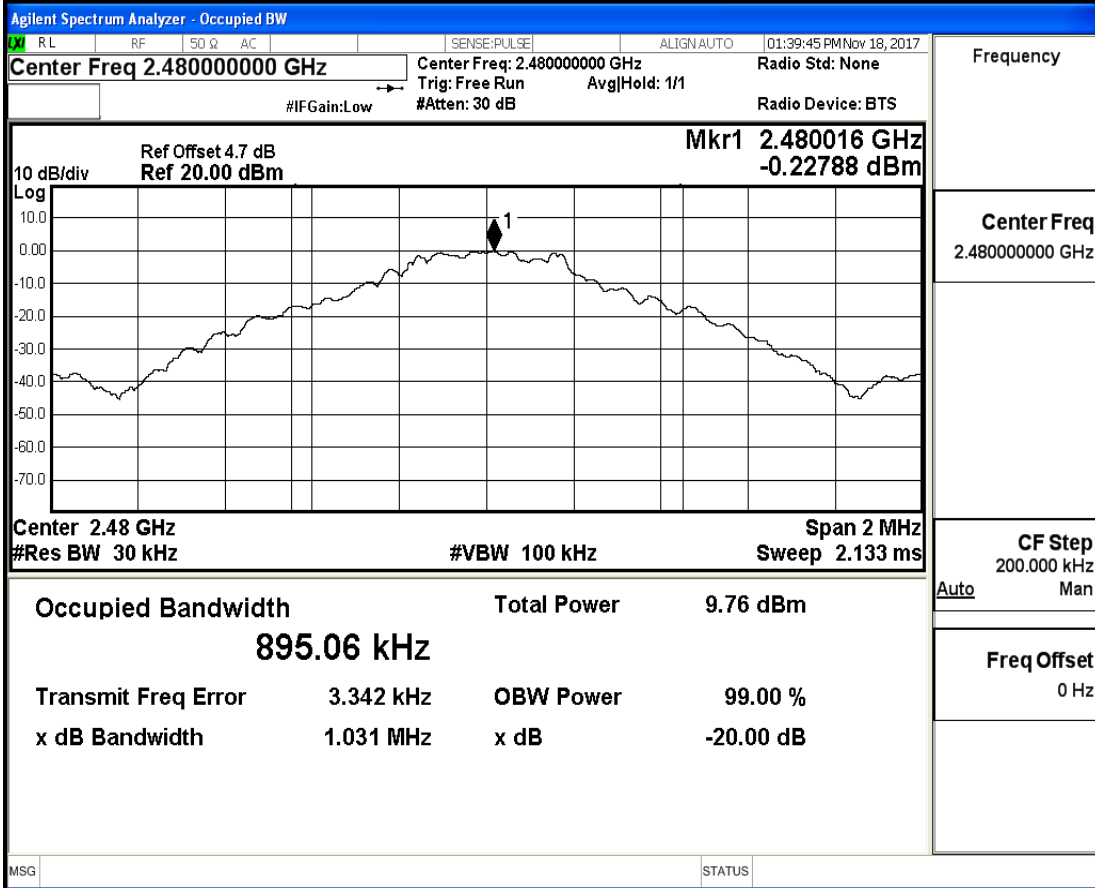
Frequency
Center Freq 2.40200000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz

20 dB Bandwidth_DH5_2441

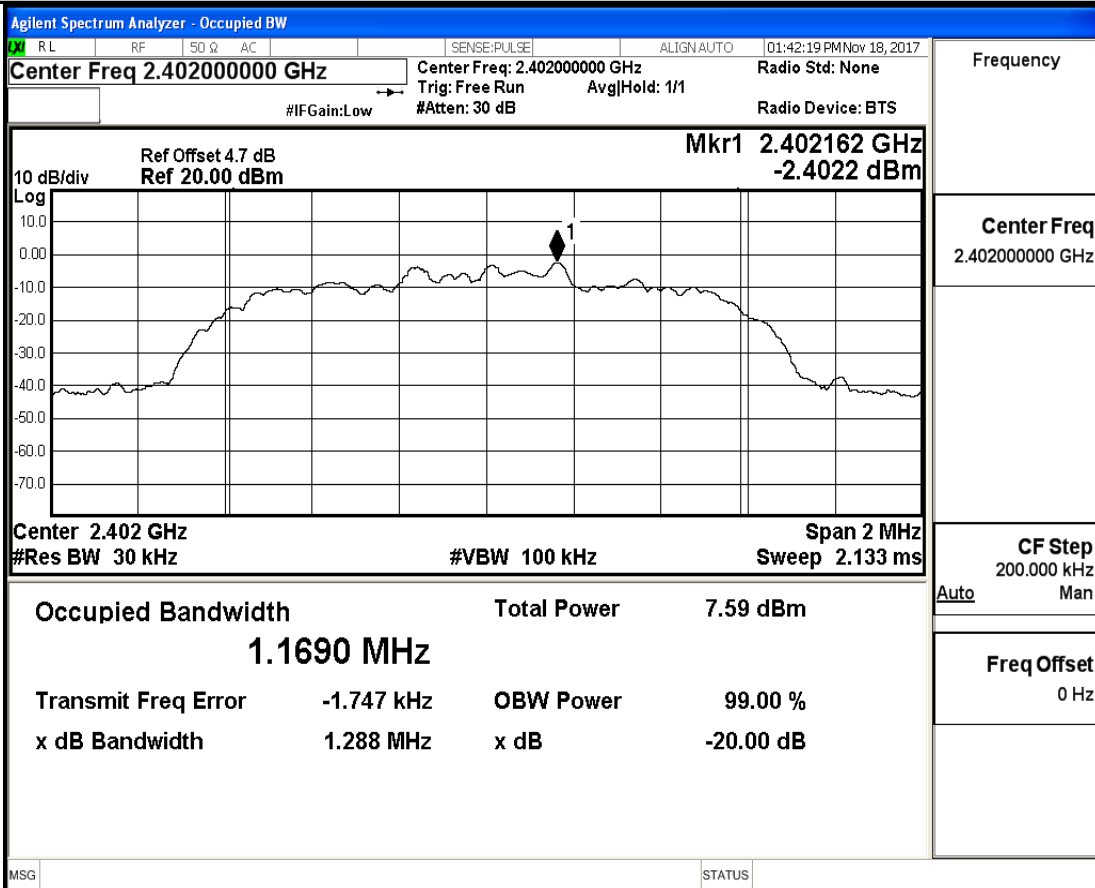


Frequency
Center Freq 2.44100000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz

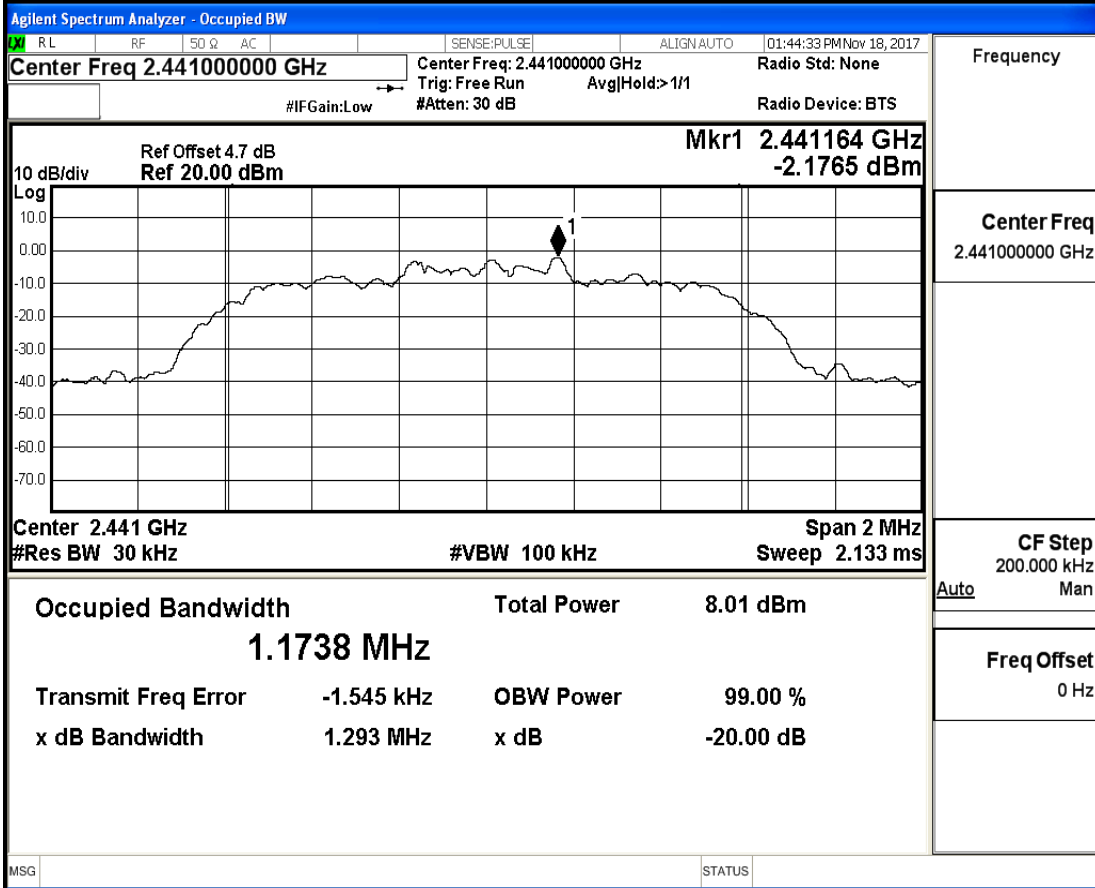
20 dB Bandwidth_DH5_2480



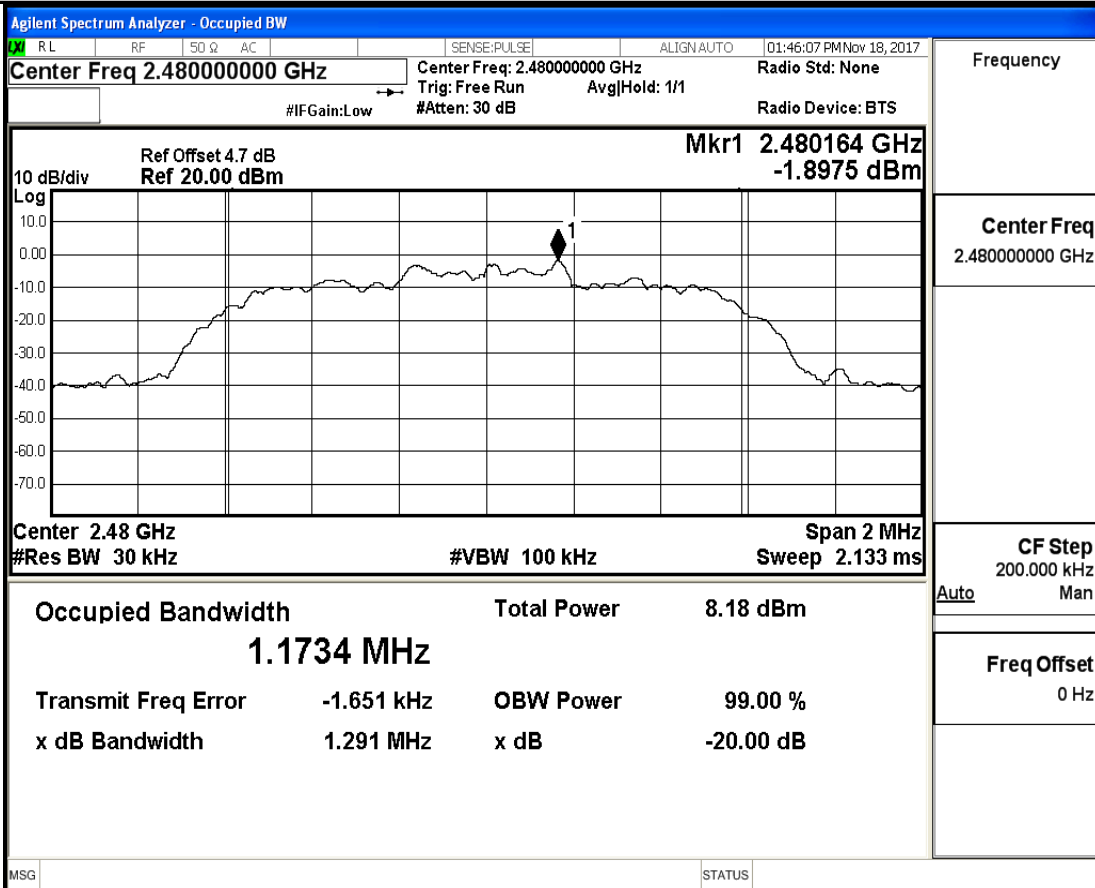
20 dB Bandwidth_2DH5_2402



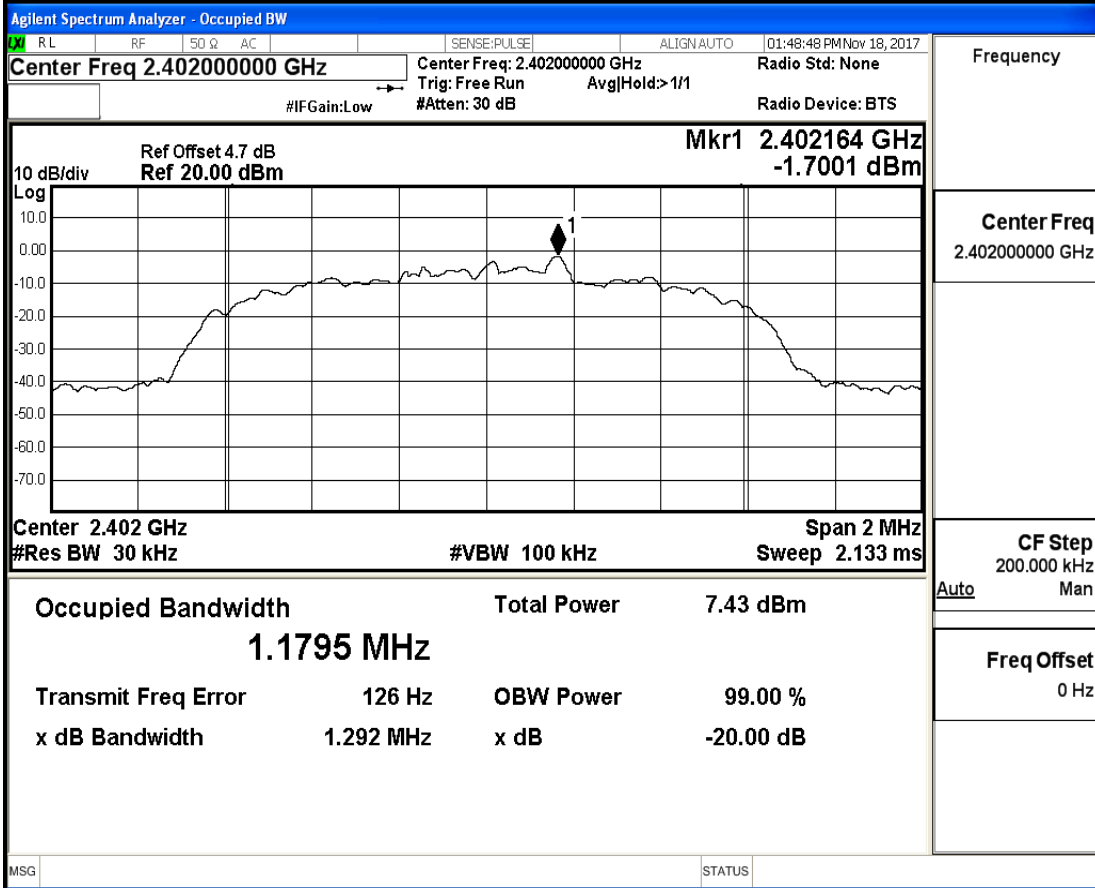
20 dB Bandwidth_2DH5_2441



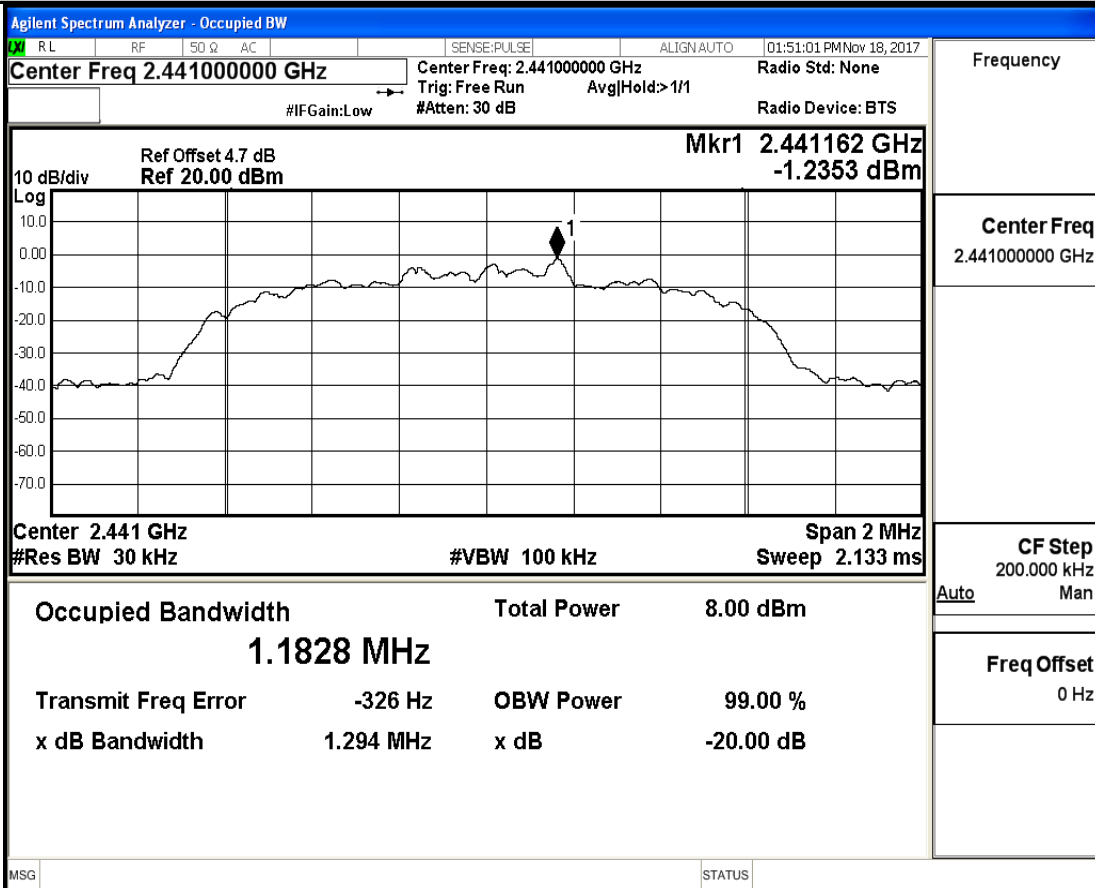
20 dB Bandwidth_2DH5_2480



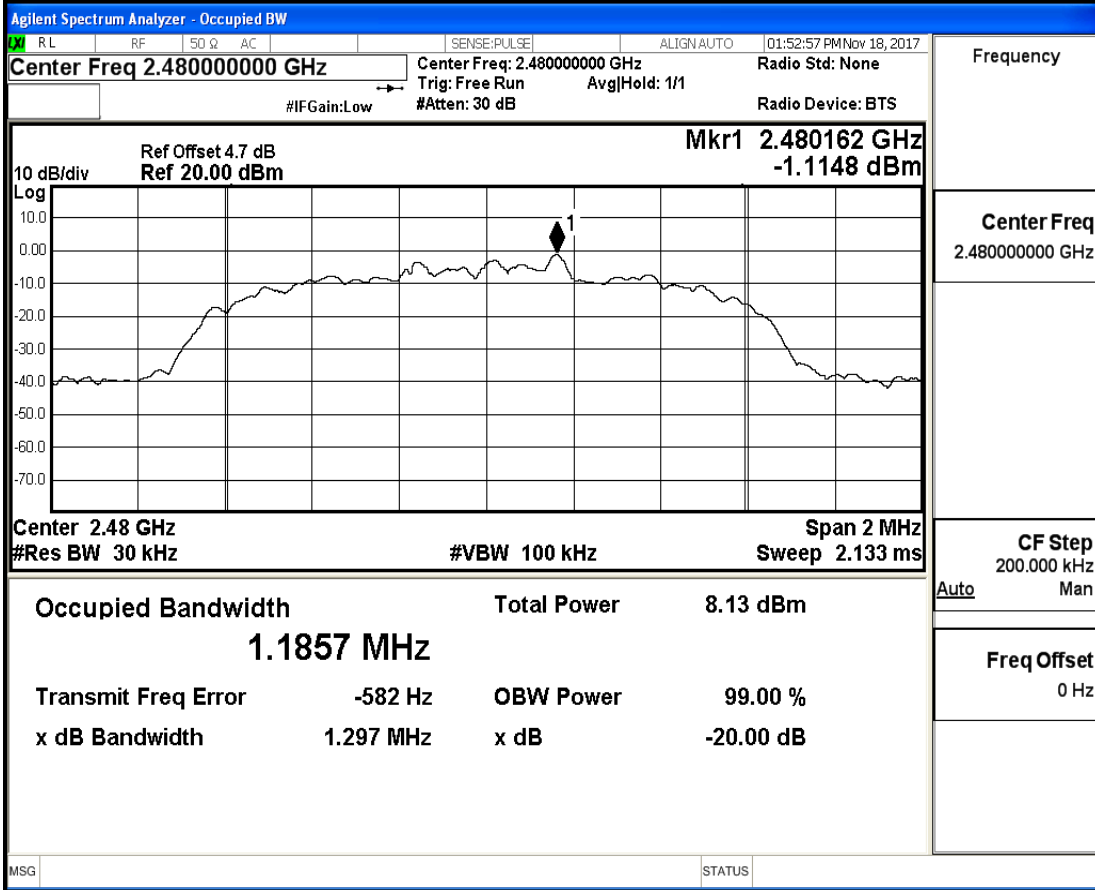
20 dB Bandwidth_3DH5_2402



20 dB Bandwidth_3DH5_2441



20 dB Bandwidth_3DH5_2480



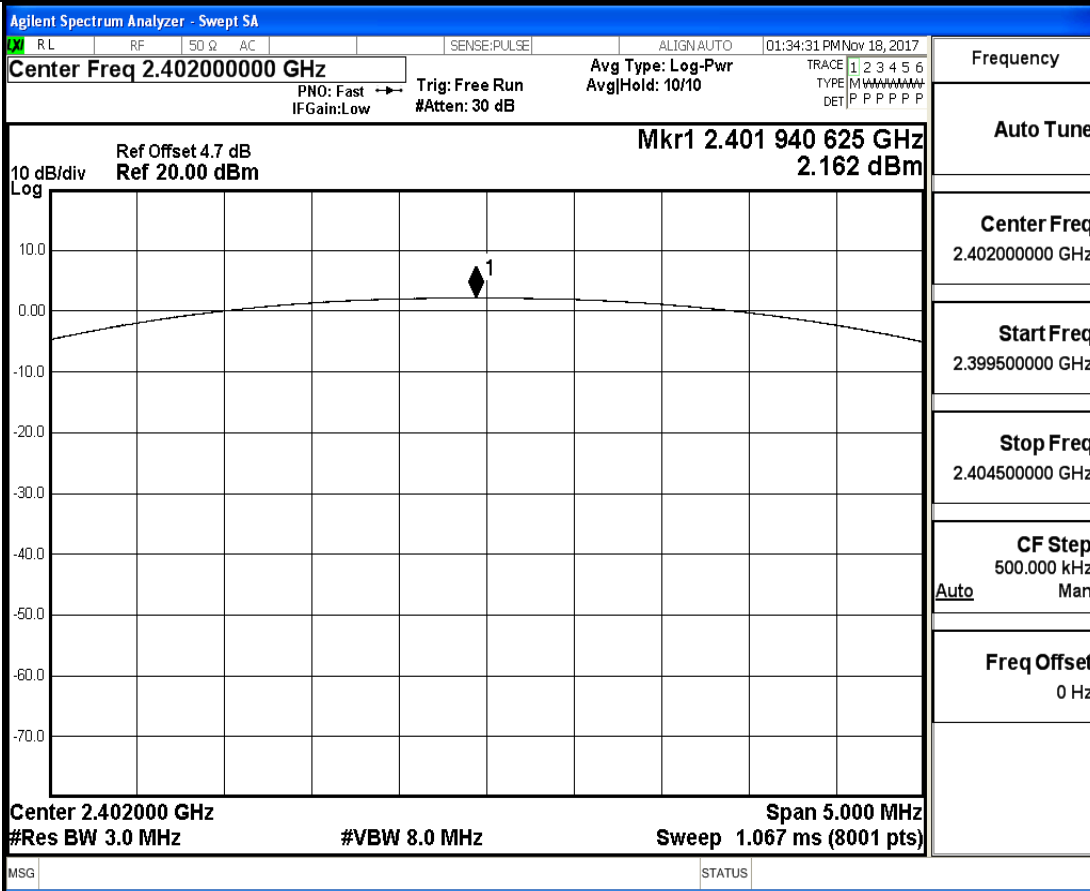
2.Occupied Bandwidth

Test Mode	Test Channel	OBW[MHz]	Limit[MHz]	Verdict
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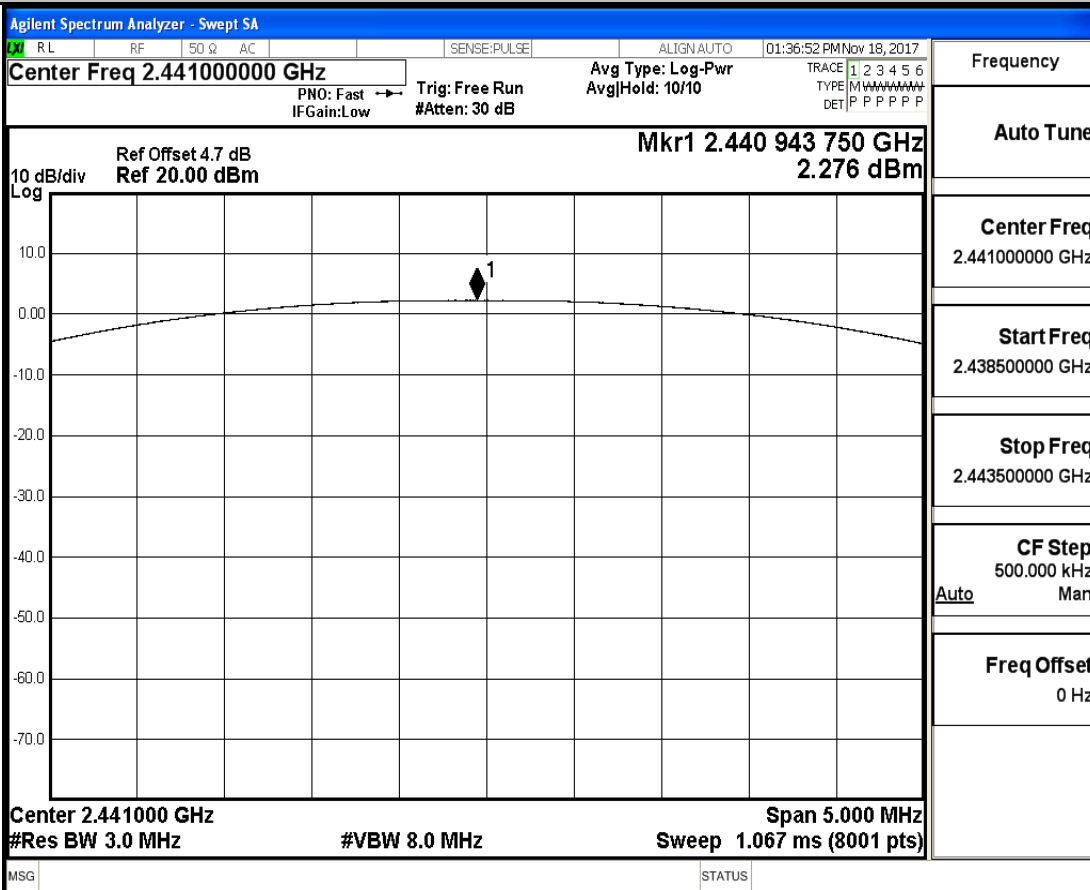
3.Conducted Peak Output Power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
DH5	2402	2.162	30	PASS
DH5	2441	2.276	30	PASS
DH5	2480	2.370	30	PASS
2DH5	2402	1.327	21	PASS
2DH5	2441	1.589	21	PASS
2DH5	2480	1.698	21	PASS
3DH5	2402	1.499	21	PASS
3DH5	2441	1.792	21	PASS
3DH5	2480	1.868	21	PASS

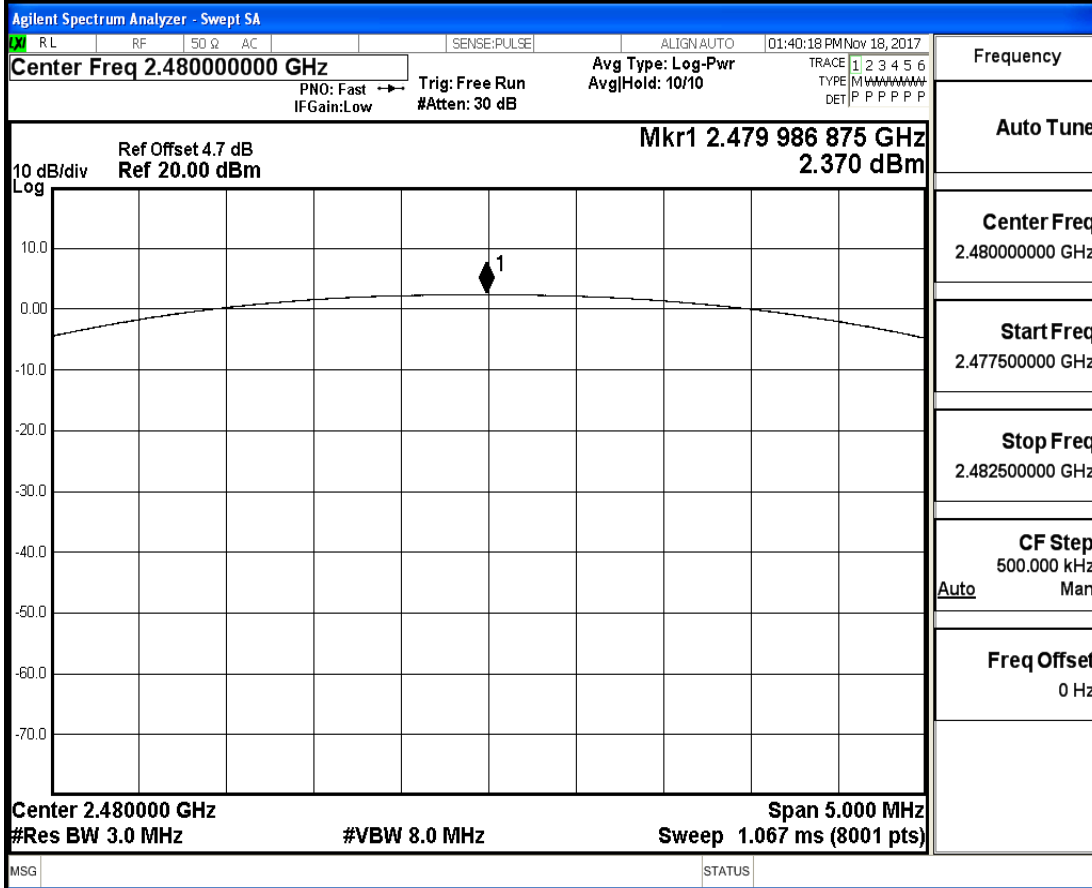
Conducted Peak Output Power_DH5_2402



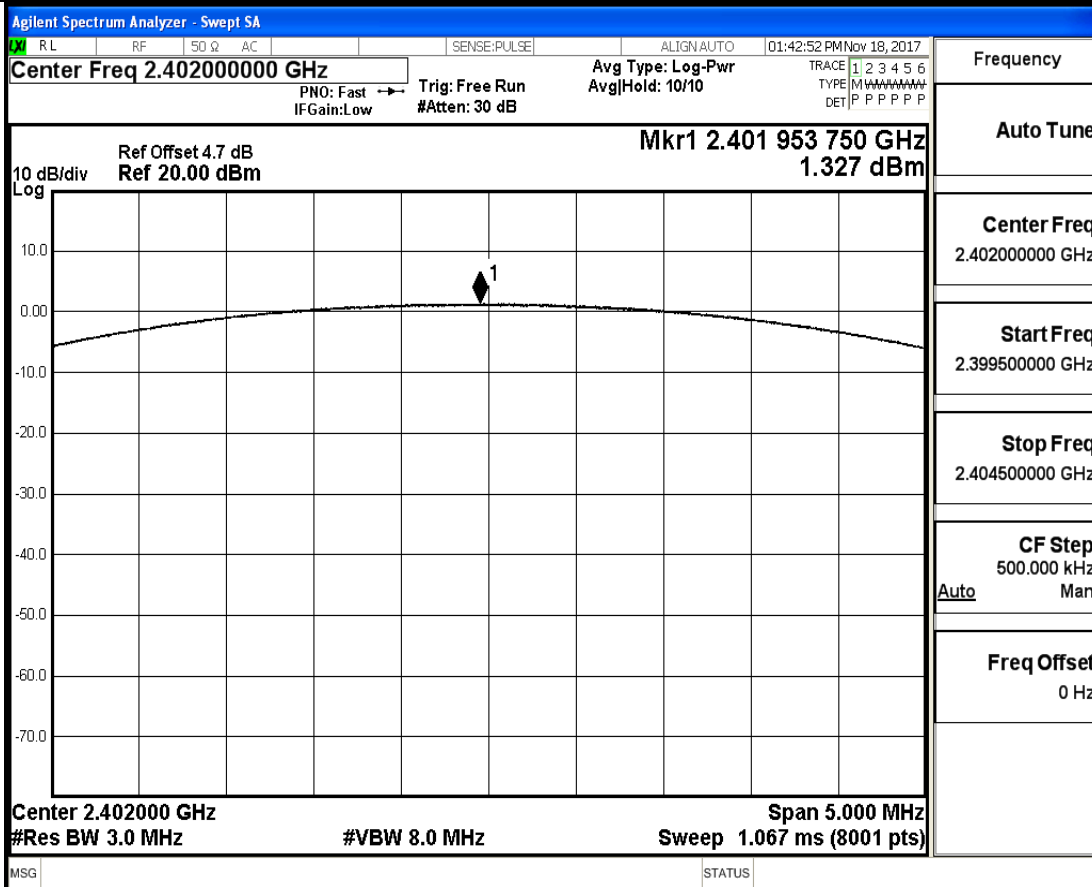
Conducted Peak Output Power_DH5_2441



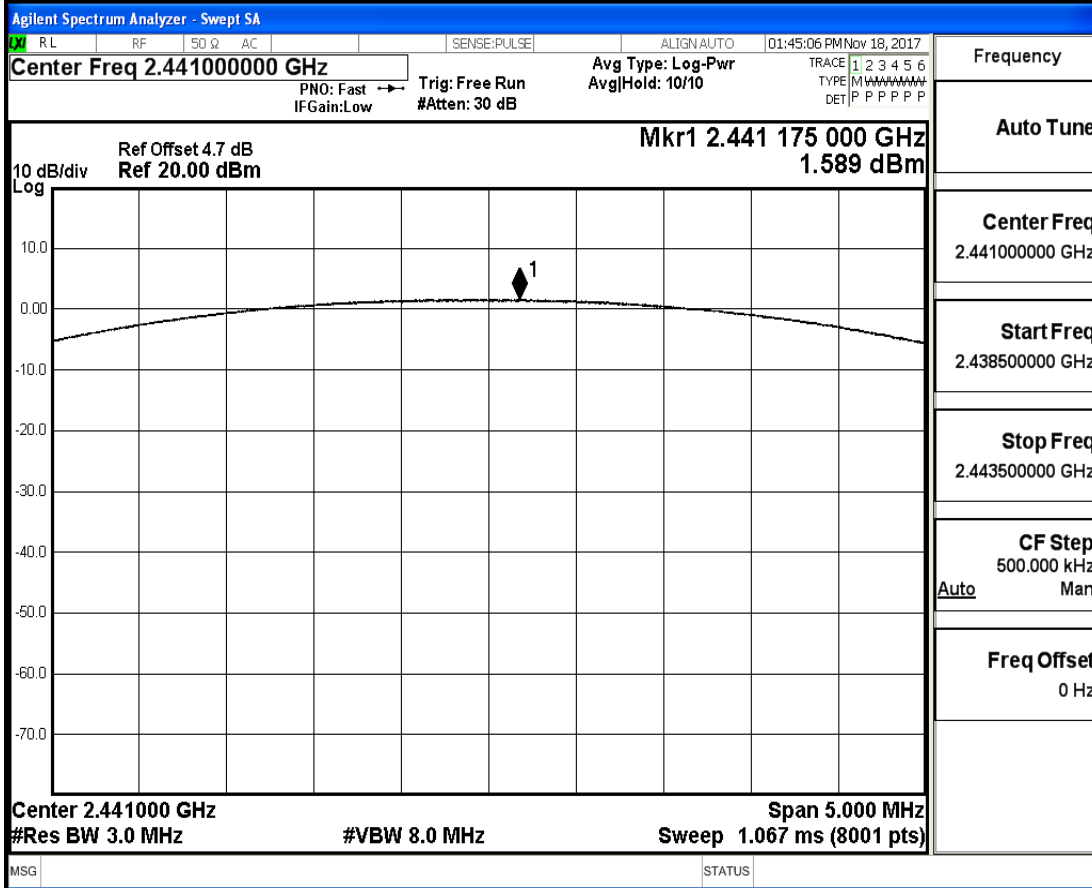
Conducted Peak Output Power_DH5_2480



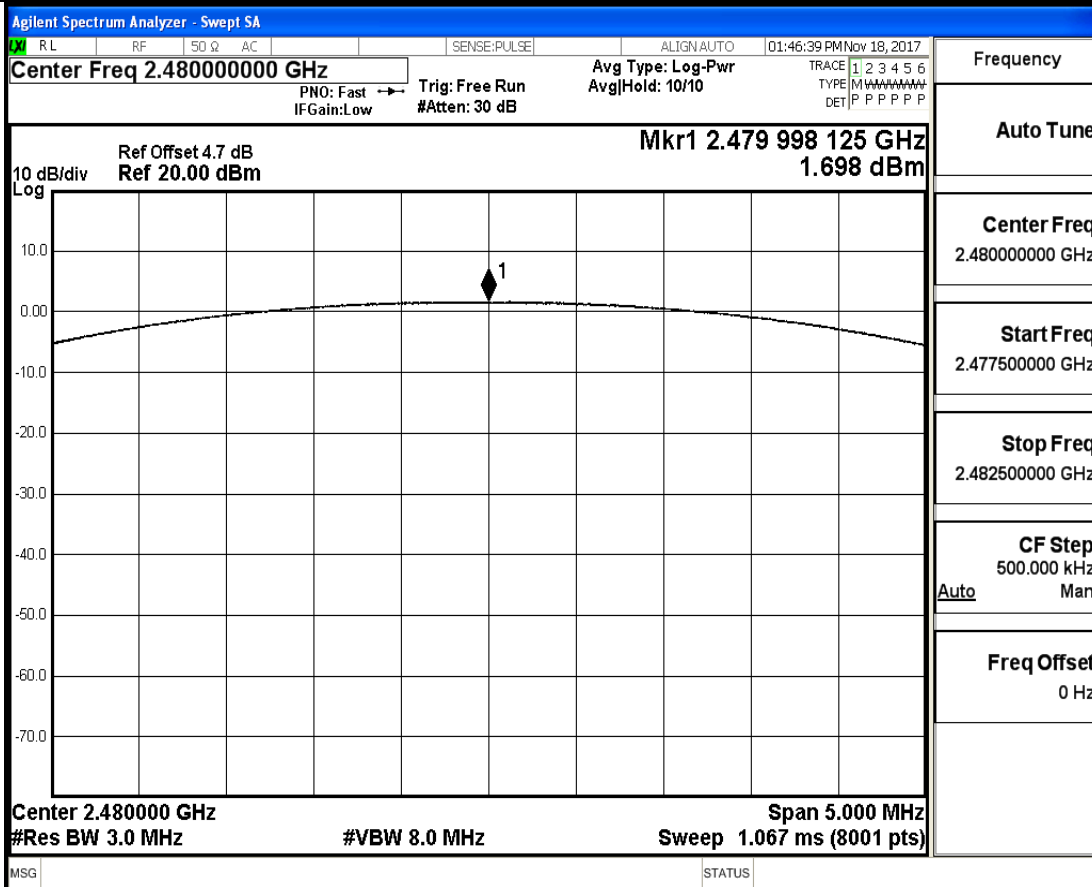
Conducted Peak Output Power_2DH5_2402



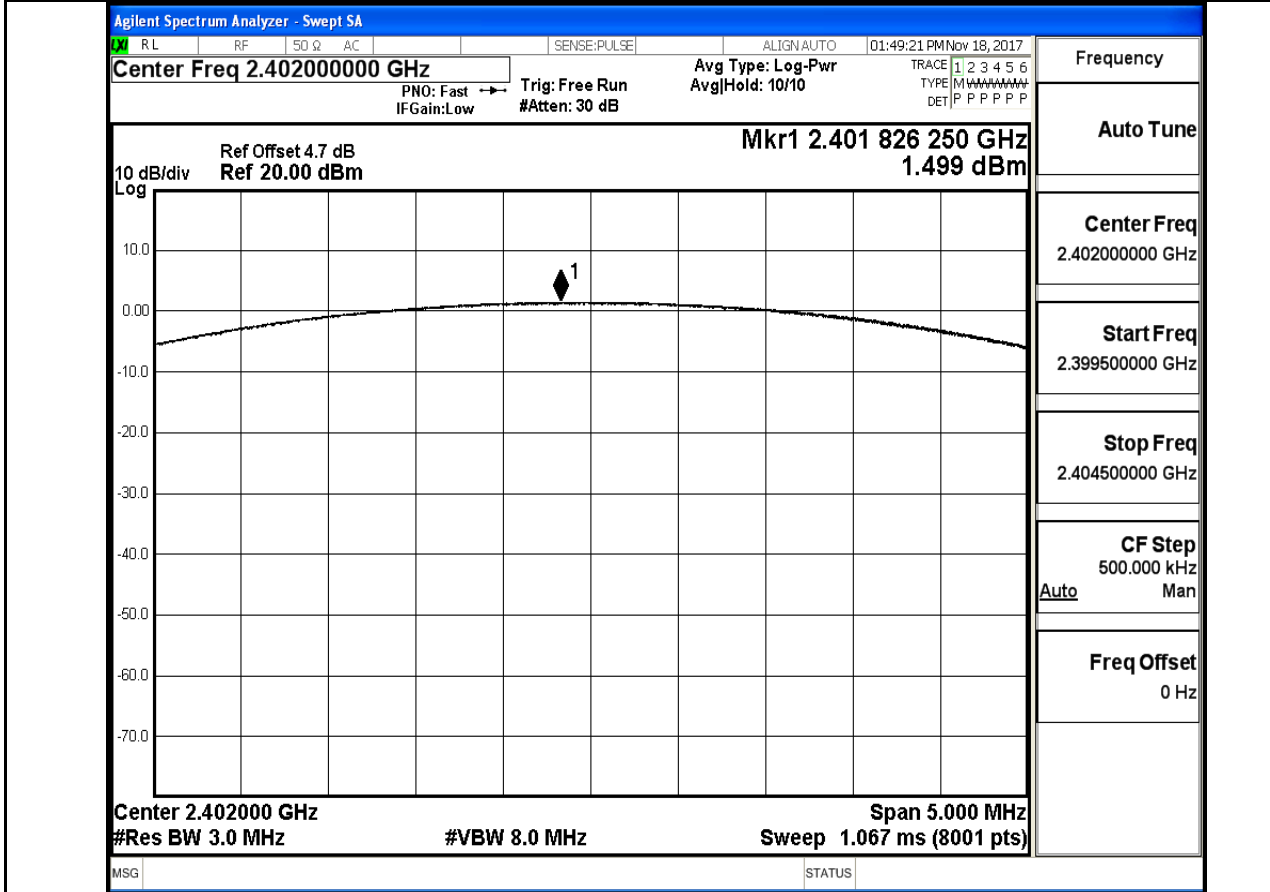
Conducted Peak Output Power_2DH5_2441



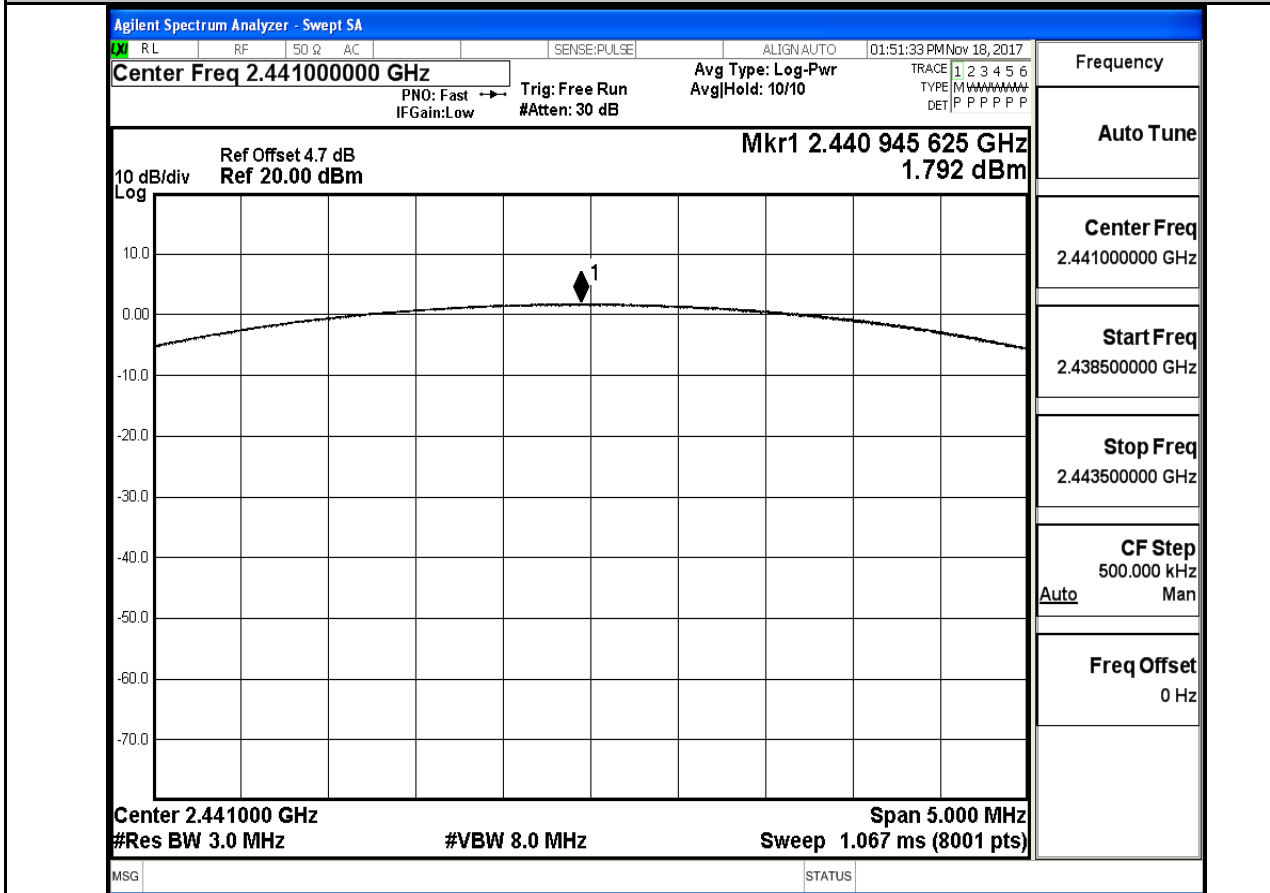
Conducted Peak Output Power_2DH5_2480



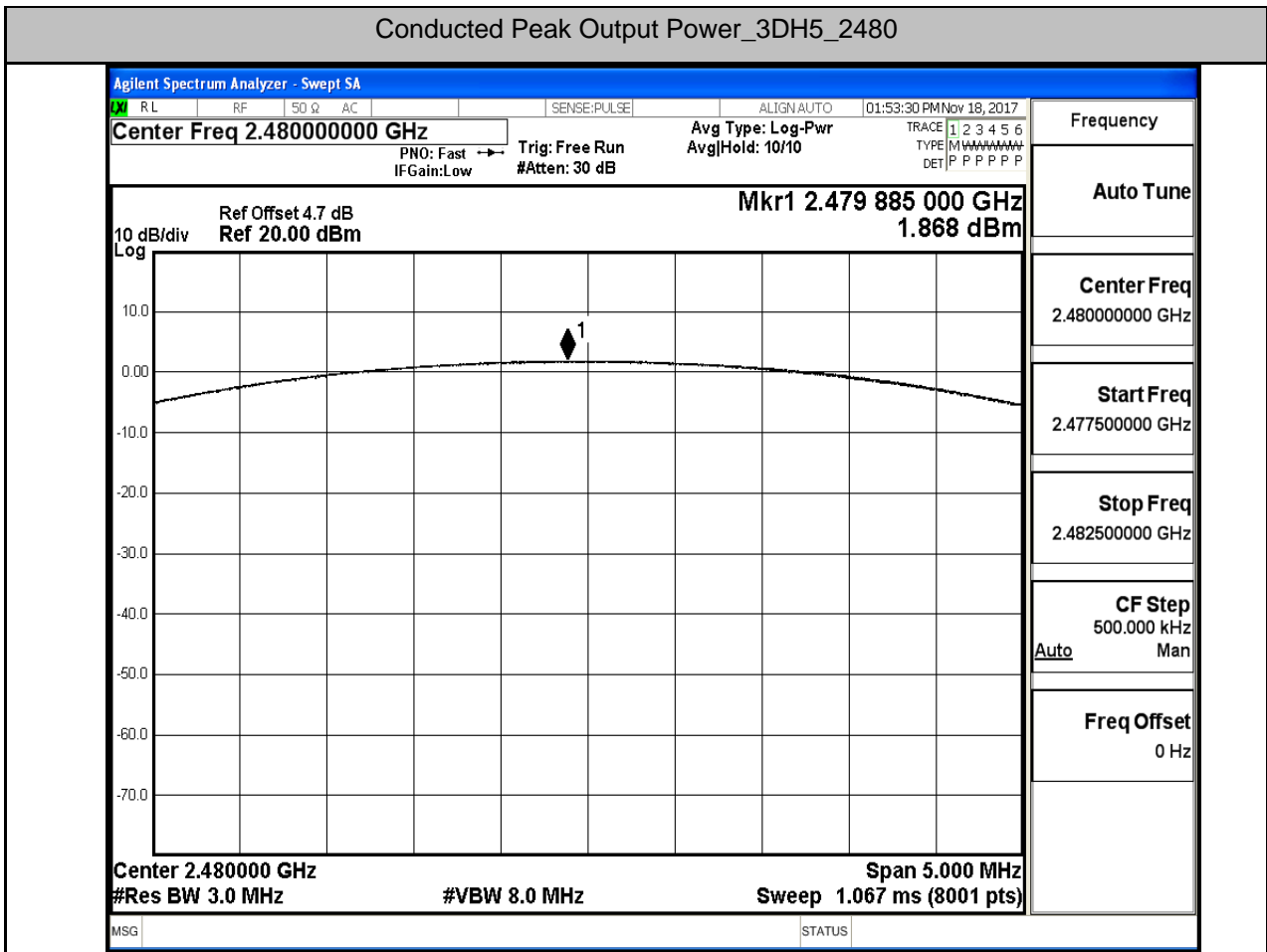
Conducted Peak Output Power_3DH5_2402



Conducted Peak Output Power_3DH5_2441



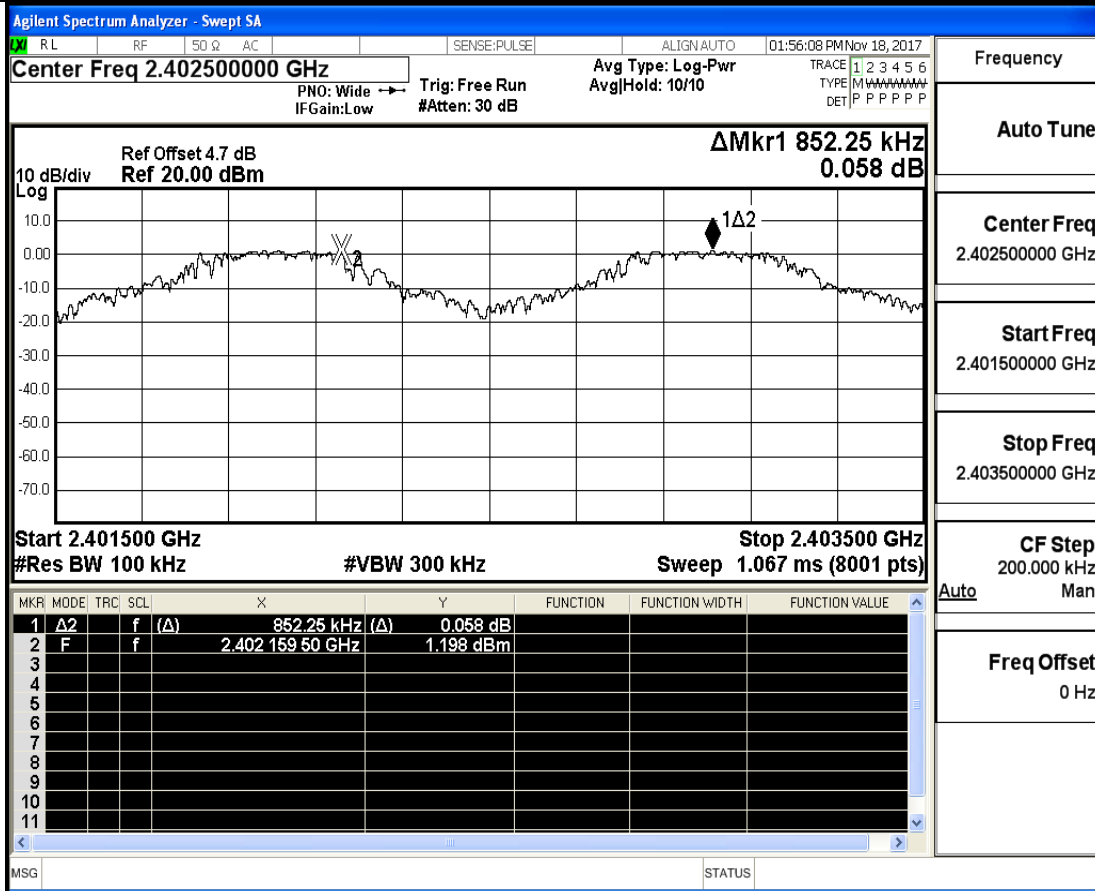
Conducted Peak Output Power_3DH5_2480



4. Carrier Frequency Separation

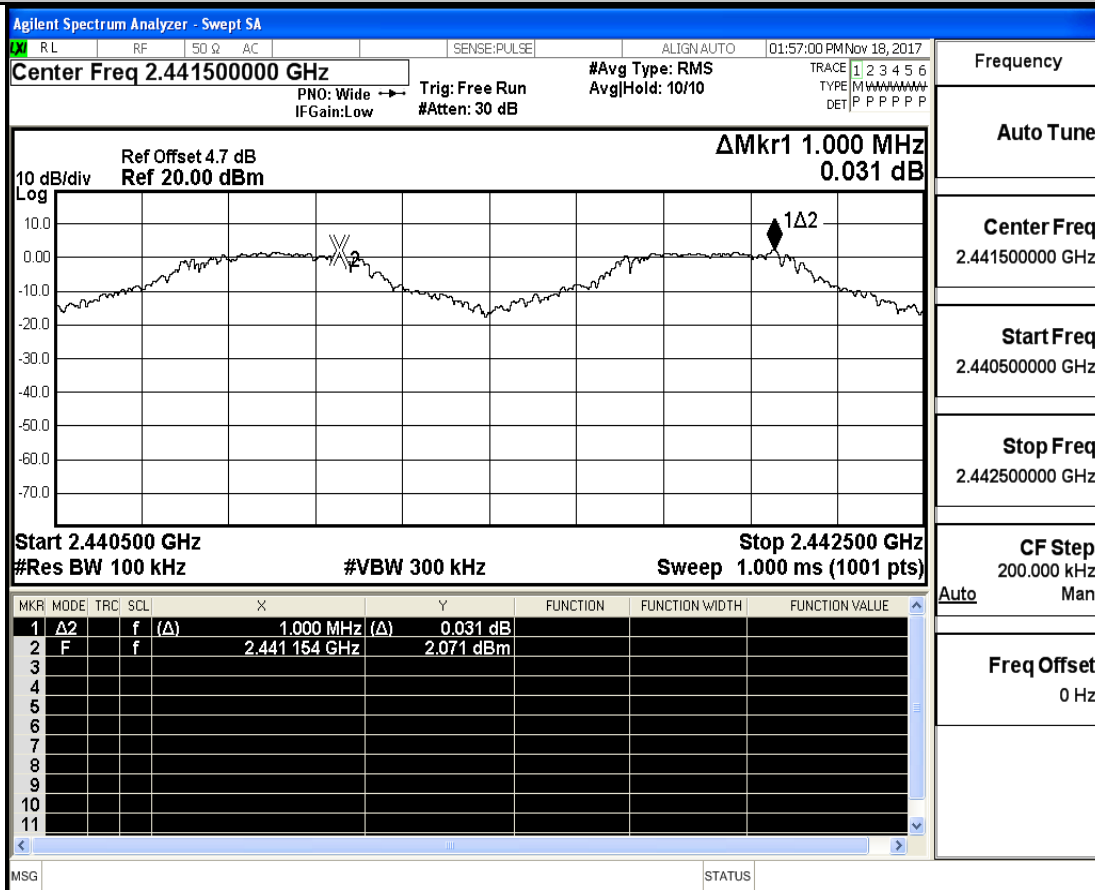
Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	2402	0.852	0.68	PASS
DH5	2441	1	0.68	PASS
DH5	2480	0.904	0.69	PASS
2DH5	2402	1.332	0.86	PASS
2DH5	2441	1.048	0.86	PASS
2DH5	2480	1.172	0.86	PASS
3DH5	2402	1.026	0.86	PASS
3DH5	2441	0.976	0.86	PASS
3DH5	2480	1.138	0.86	PASS

Carrier Frequency Separation_DH5_2402



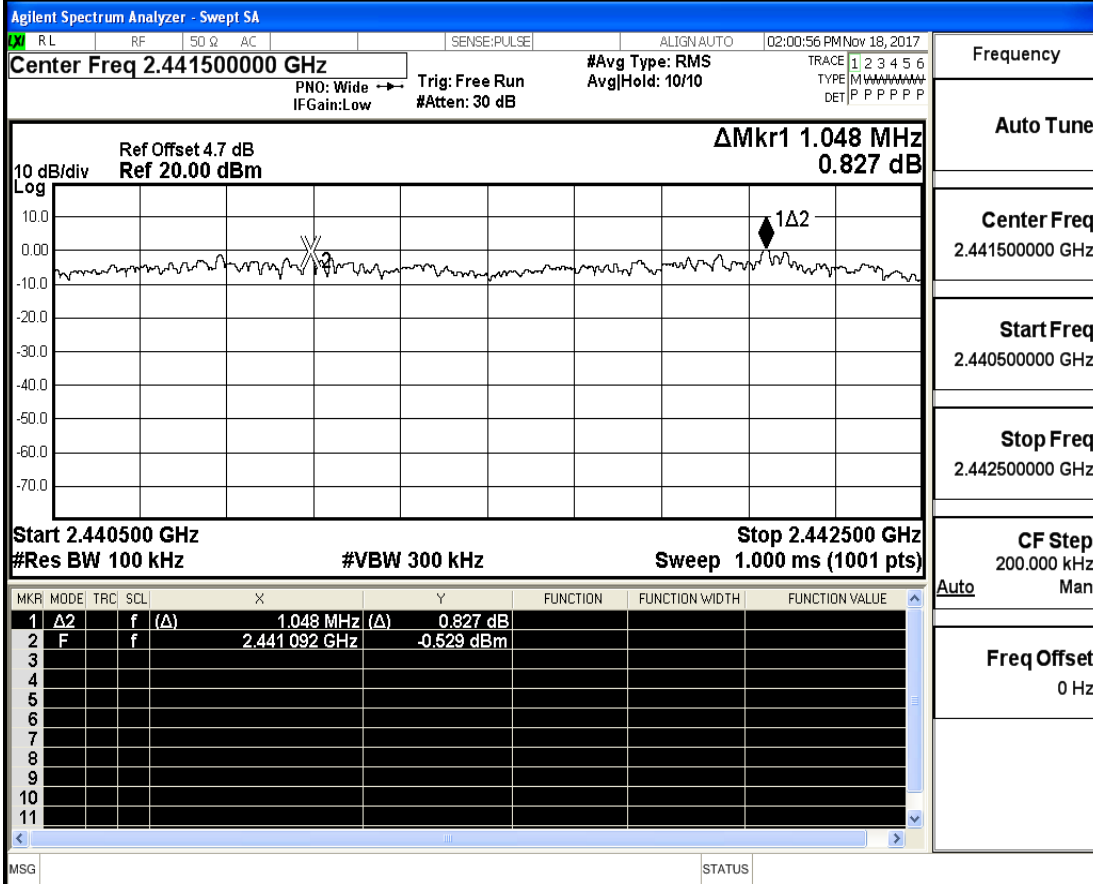
Frequency
Auto Tune
Center Freq 2.402500000 GHz
Start Freq 2.401500000 GHz
Stop Freq 2.403500000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz

Carrier Frequency Separation_DH5_2441

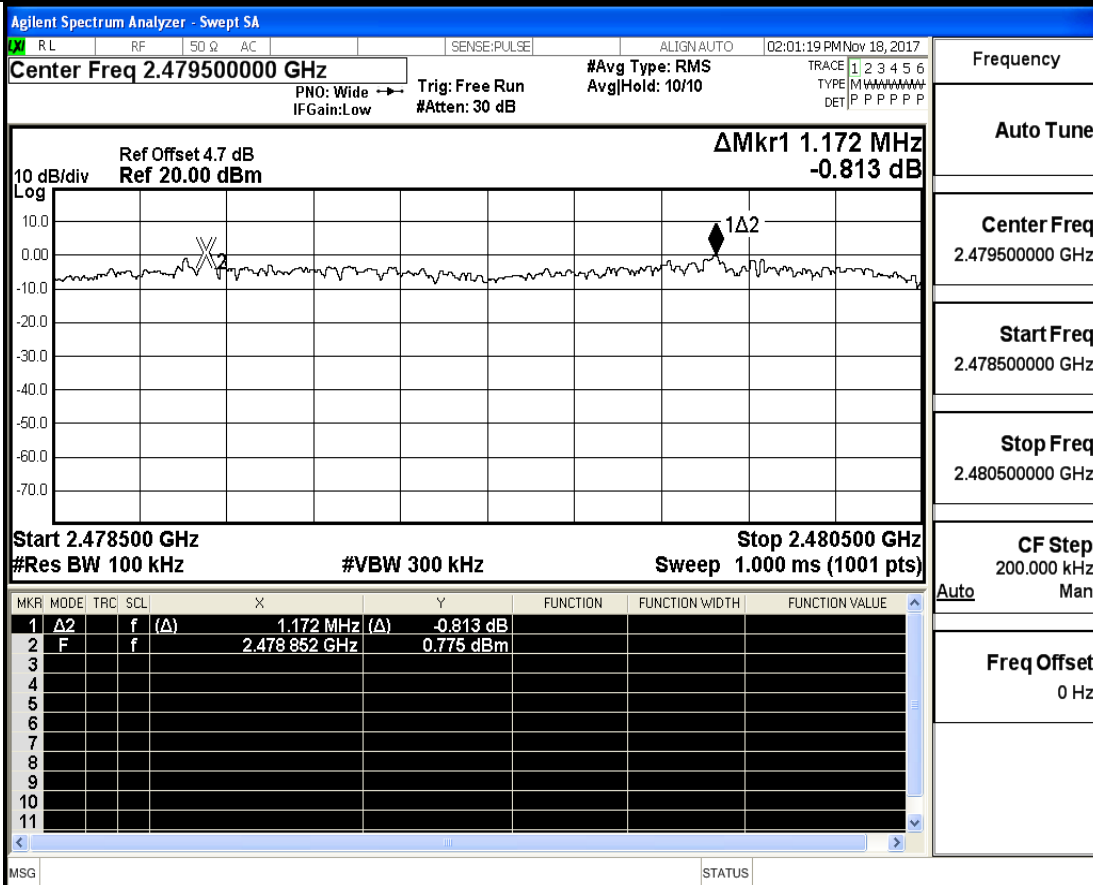


Frequency
Auto Tune
Center Freq 2.441500000 GHz
Start Freq 2.440500000 GHz
Stop Freq 2.442500000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz

Carrier Frequency Separation_2DH5_2441



Carrier Frequency Separation_2DH5_2480



Carrier Frequency Separation_3DH5_2480

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:PULSE ALIGN AUTO 02:11:20 PM Nov 18, 2017

Center Freq 2.479500000 GHz #Avg Type: RMS TRACE 1 2 3 4 5 6
 PNO: Wide → Trig: Free Run #Attenu: 30 dB AvgJHold: 10/10 TYPE M W W W W W W W W W
 IFGain:Low #Attenu: 30 dB DET P P P P P P P

Ref Offset 4.7 dB **ΔMkr1 1.138 MHz**
 Ref 20.00 dBm **0.060 dB**

10 dB/div Log

Start 2.478500 GHz Stop 2.480500 GHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	f	(Δ)	1.138 MHz (Δ)	0.060 dB			
2	F	f		2.478 952 GHz	-2.234 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

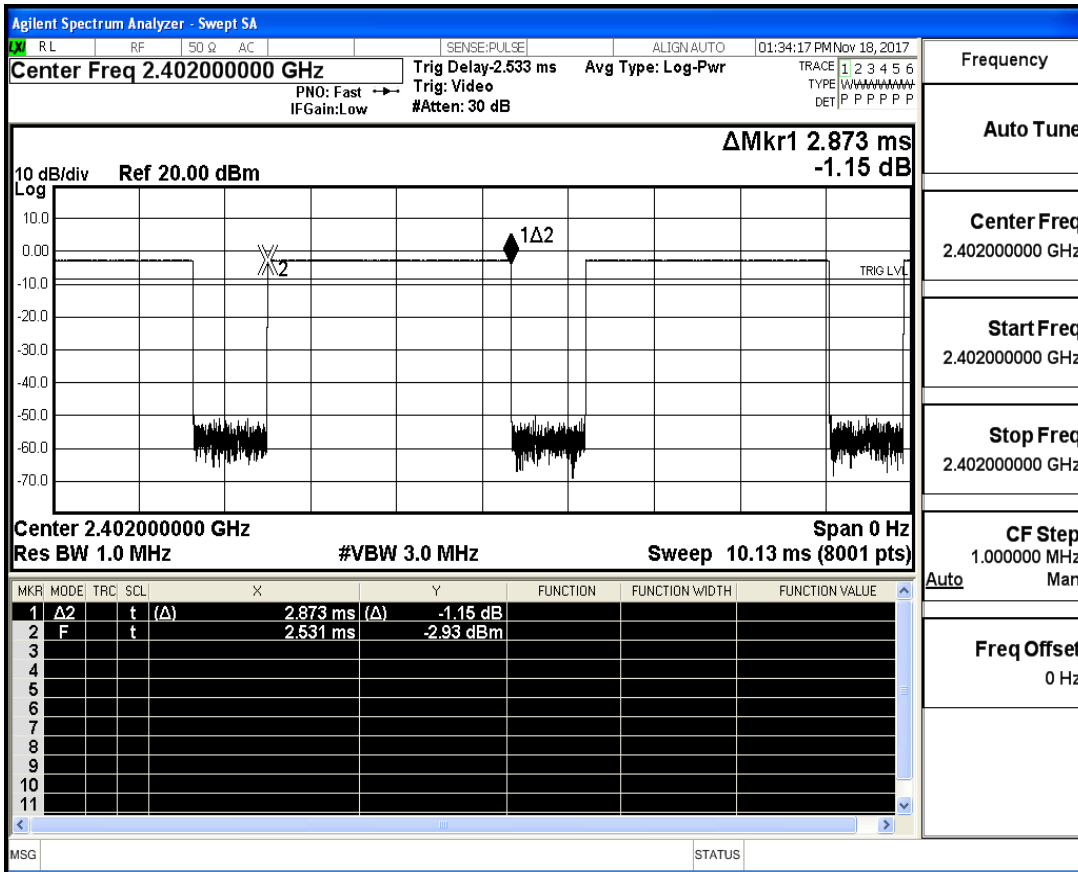
MSG STATUS

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

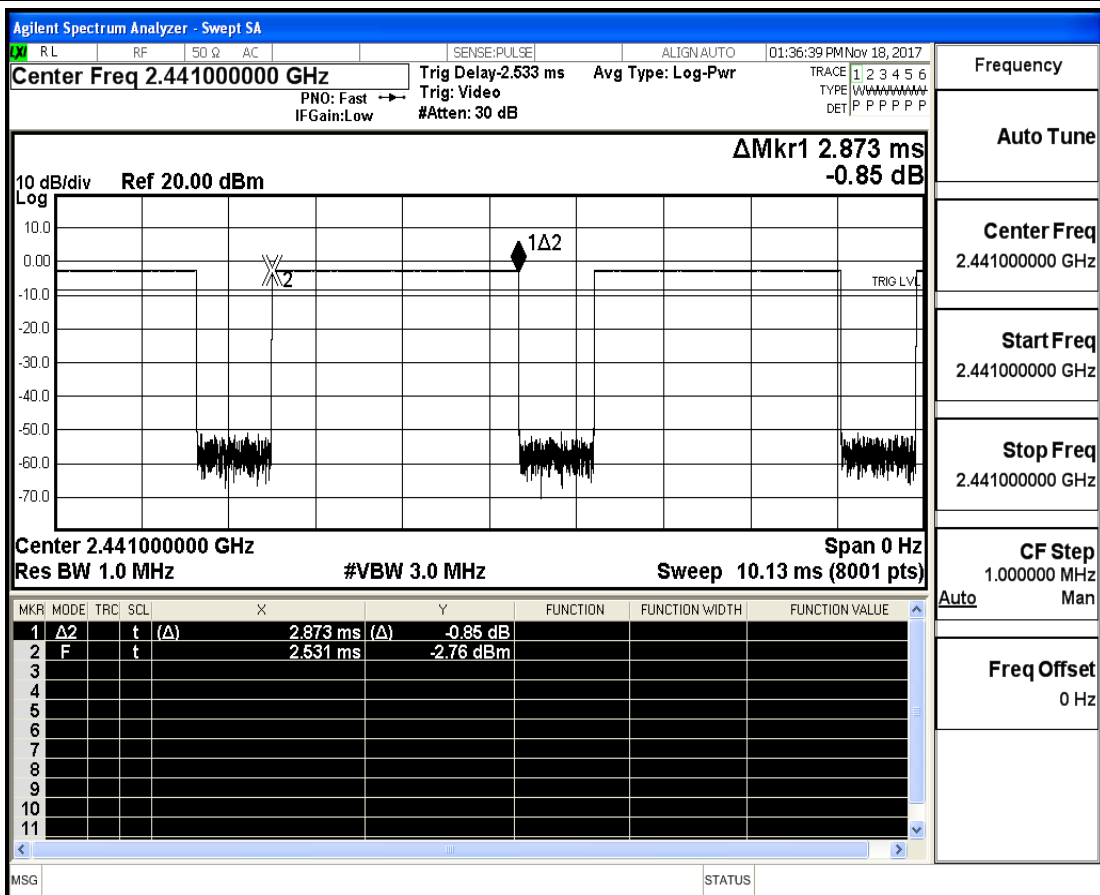
5.Dwell Time

Test Mode	Test Channel	Burst Width[ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit[s]	Verdict
DH5	2402	2.87	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

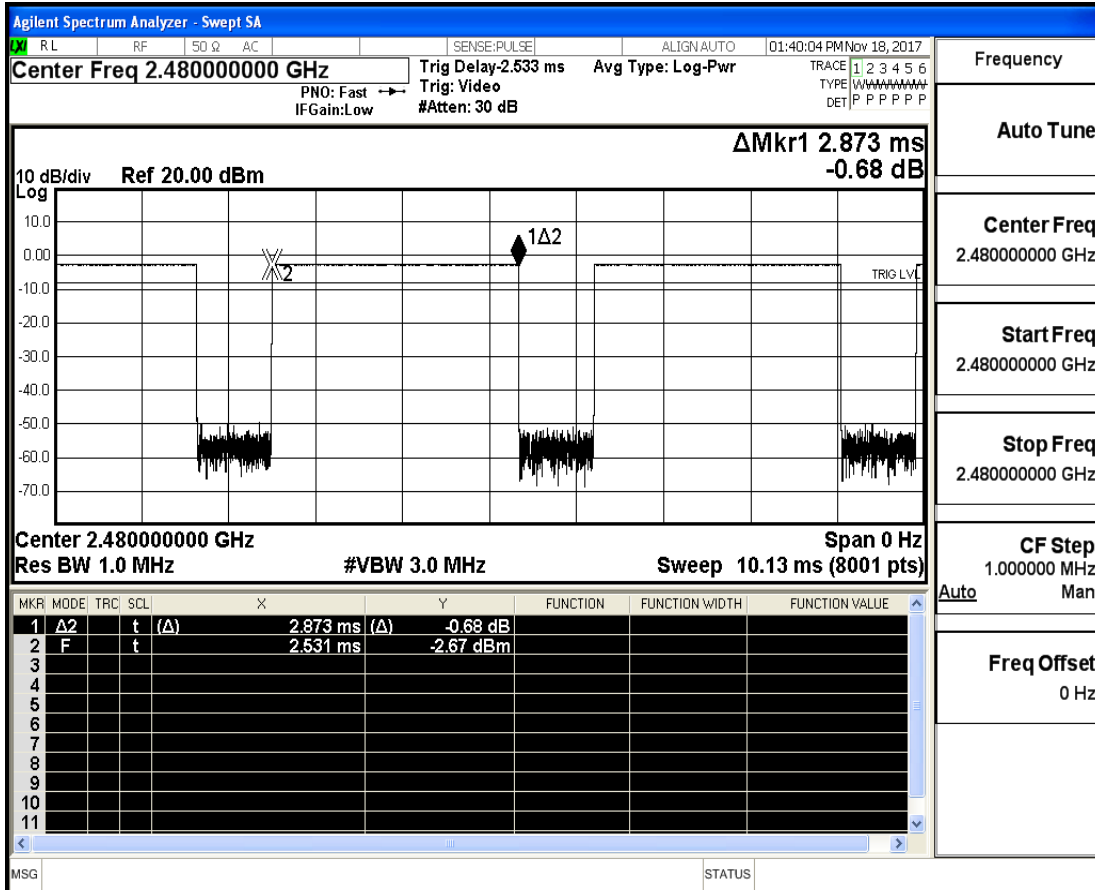
Dwell Time_DH5_2402



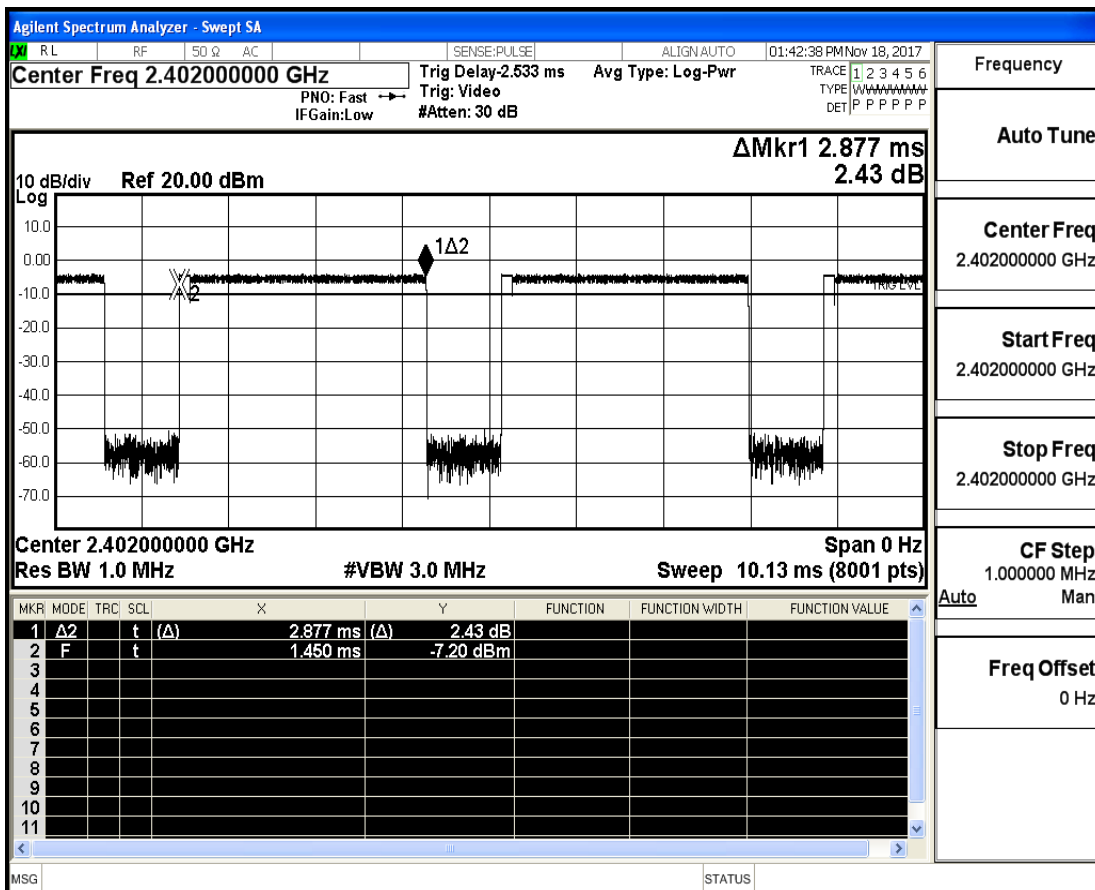
Dwell Time_DH5_2441



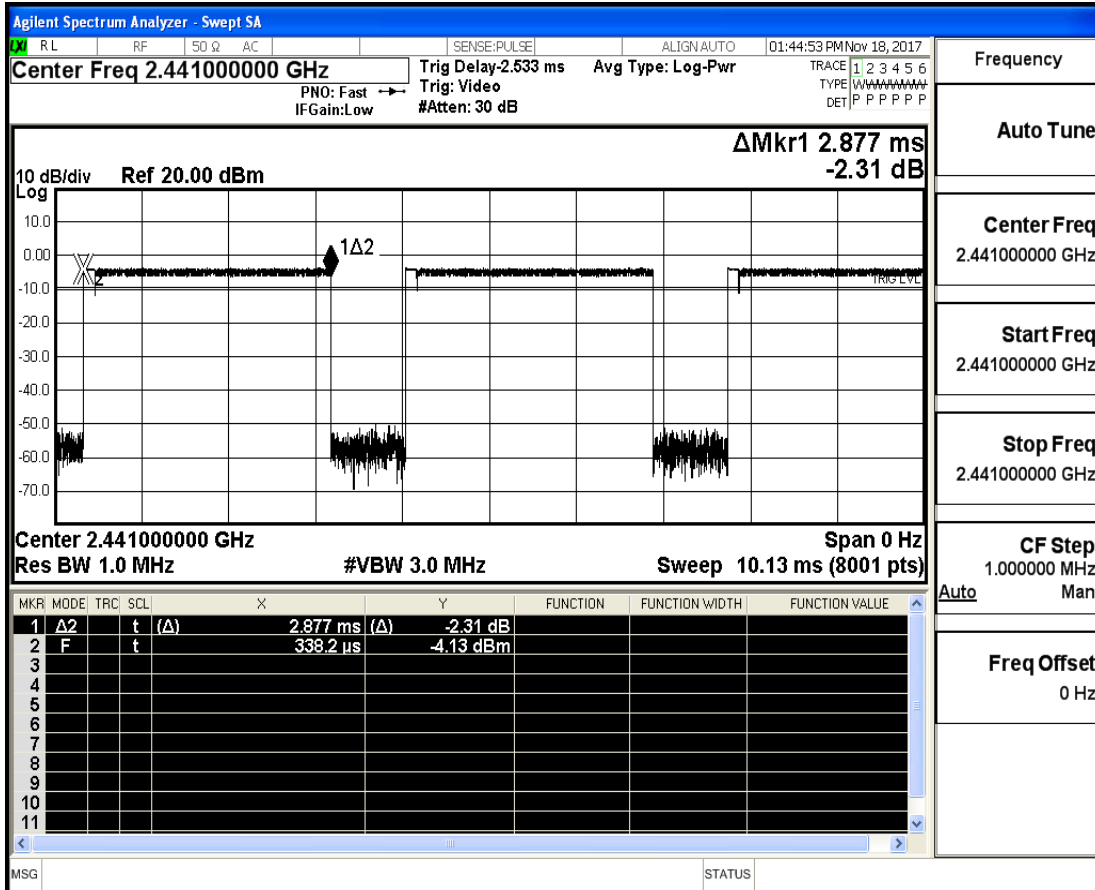
Dwell Time_DH5_2480



Dwell Time_2DH5_2402

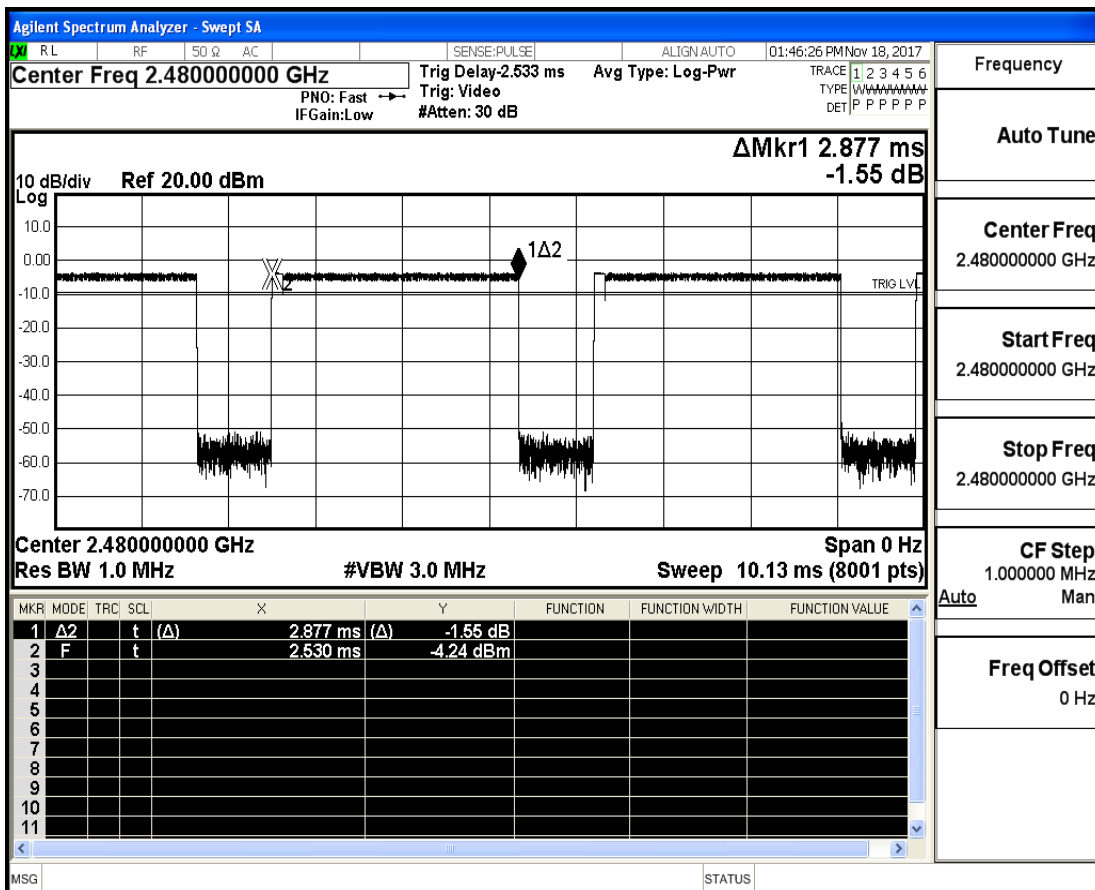


Dwell Time_2DH5_2441



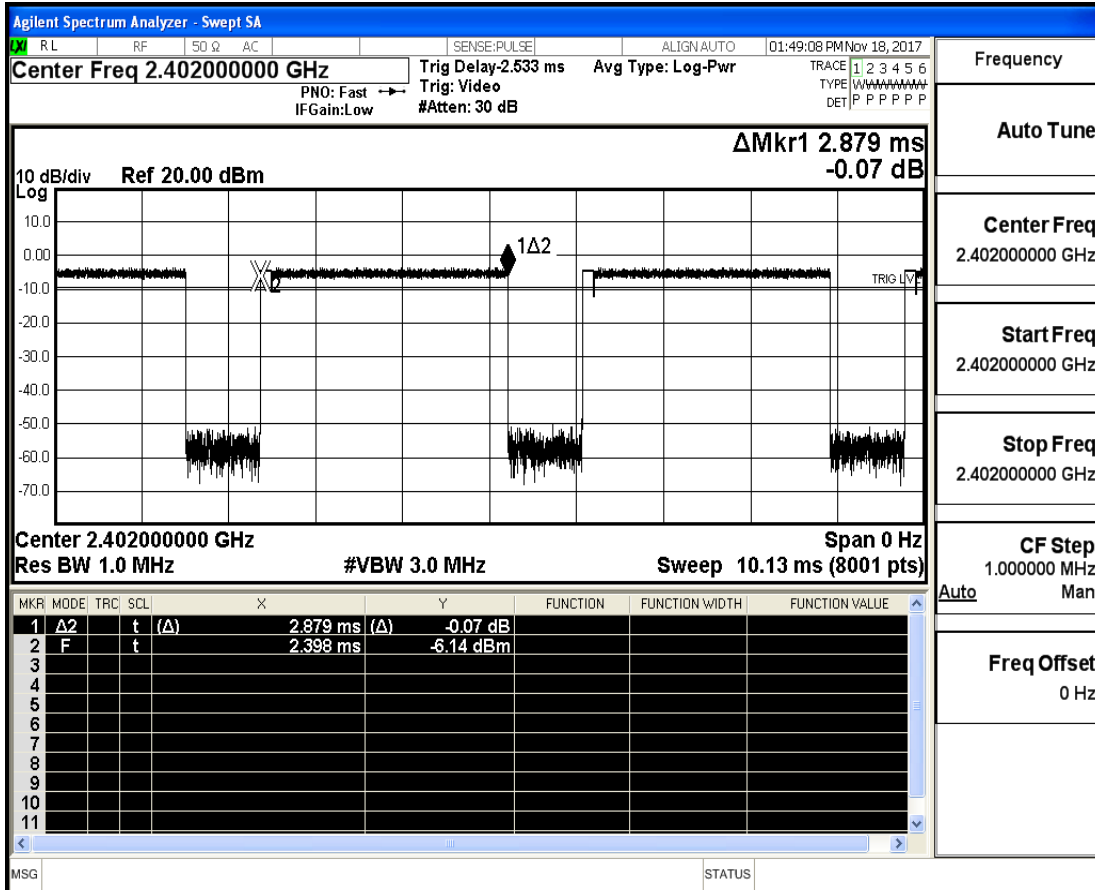
Frequency	
Auto Tune	
Center Freq	2.441000000 GHz
Start Freq	2.441000000 GHz
Stop Freq	2.441000000 GHz
CF Step	1.000000 MHz
Auto	Man
Freq Offset	0 Hz

Dwell Time_2DH5_2480



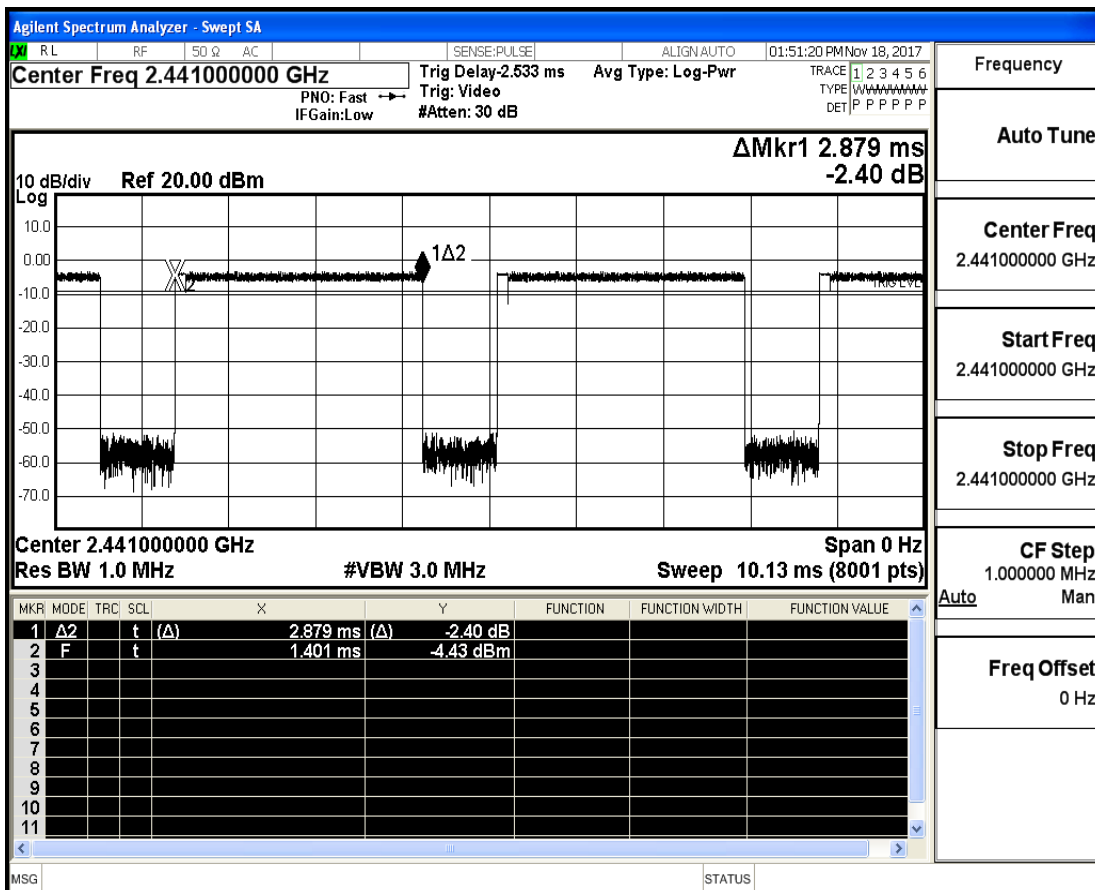
Frequency	
Auto Tune	
Center Freq	2.480000000 GHz
Start Freq	2.480000000 GHz
Stop Freq	2.480000000 GHz
CF Step	1.000000 MHz
Auto	Man
Freq Offset	0 Hz

Dwell Time_3DH5_2402



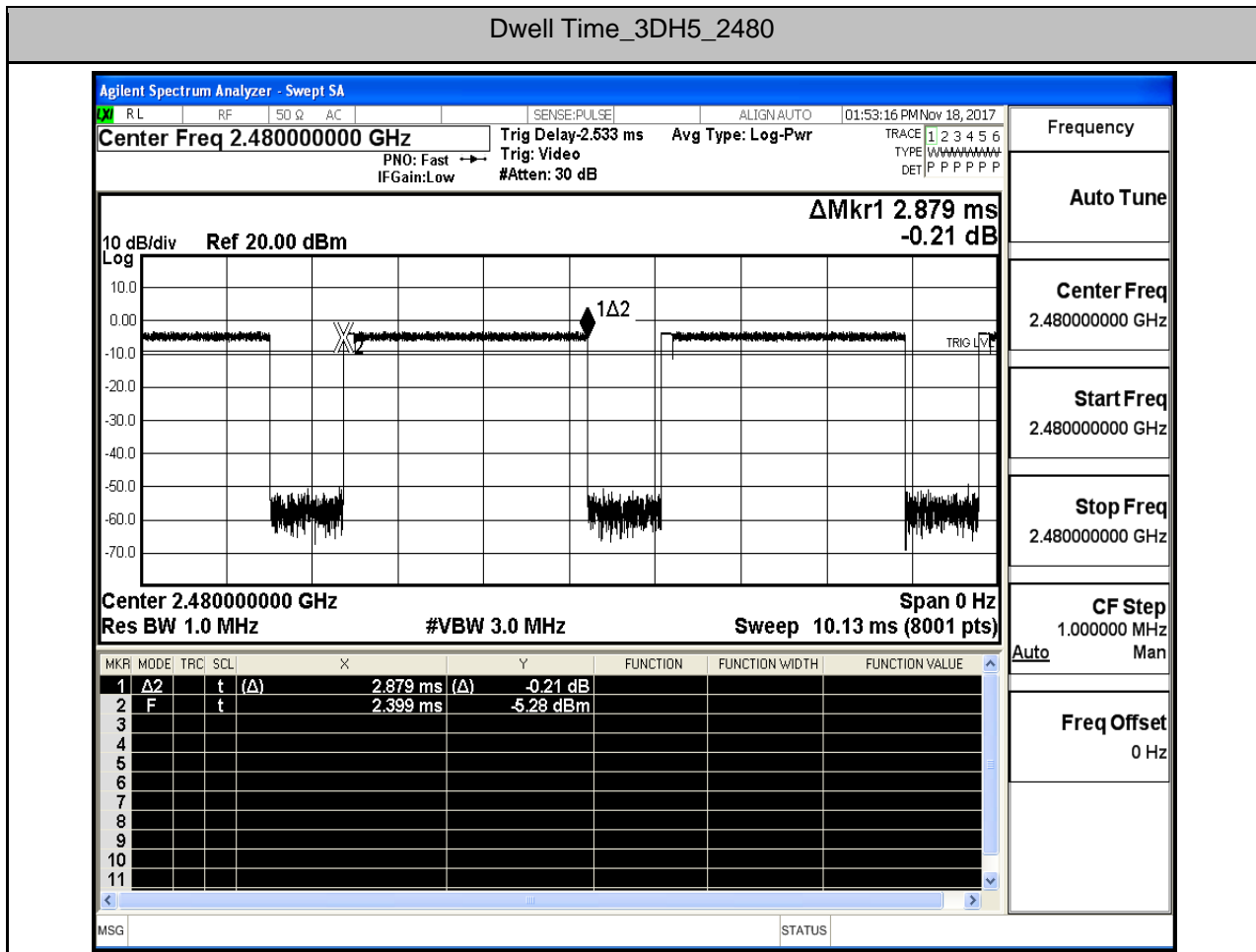
Frequency	
Auto Tune	
Center Freq	2.40200000 GHz
Start Freq	2.40200000 GHz
Stop Freq	2.40200000 GHz
CF Step	1.000000 MHz
Auto	Man
Freq Offset	0 Hz

Dwell Time_3DH5_2441



Frequency	
Auto Tune	
Center Freq	2.44100000 GHz
Start Freq	2.44100000 GHz
Stop Freq	2.44100000 GHz
CF Step	1.000000 MHz
Auto	Man
Freq Offset	0 Hz

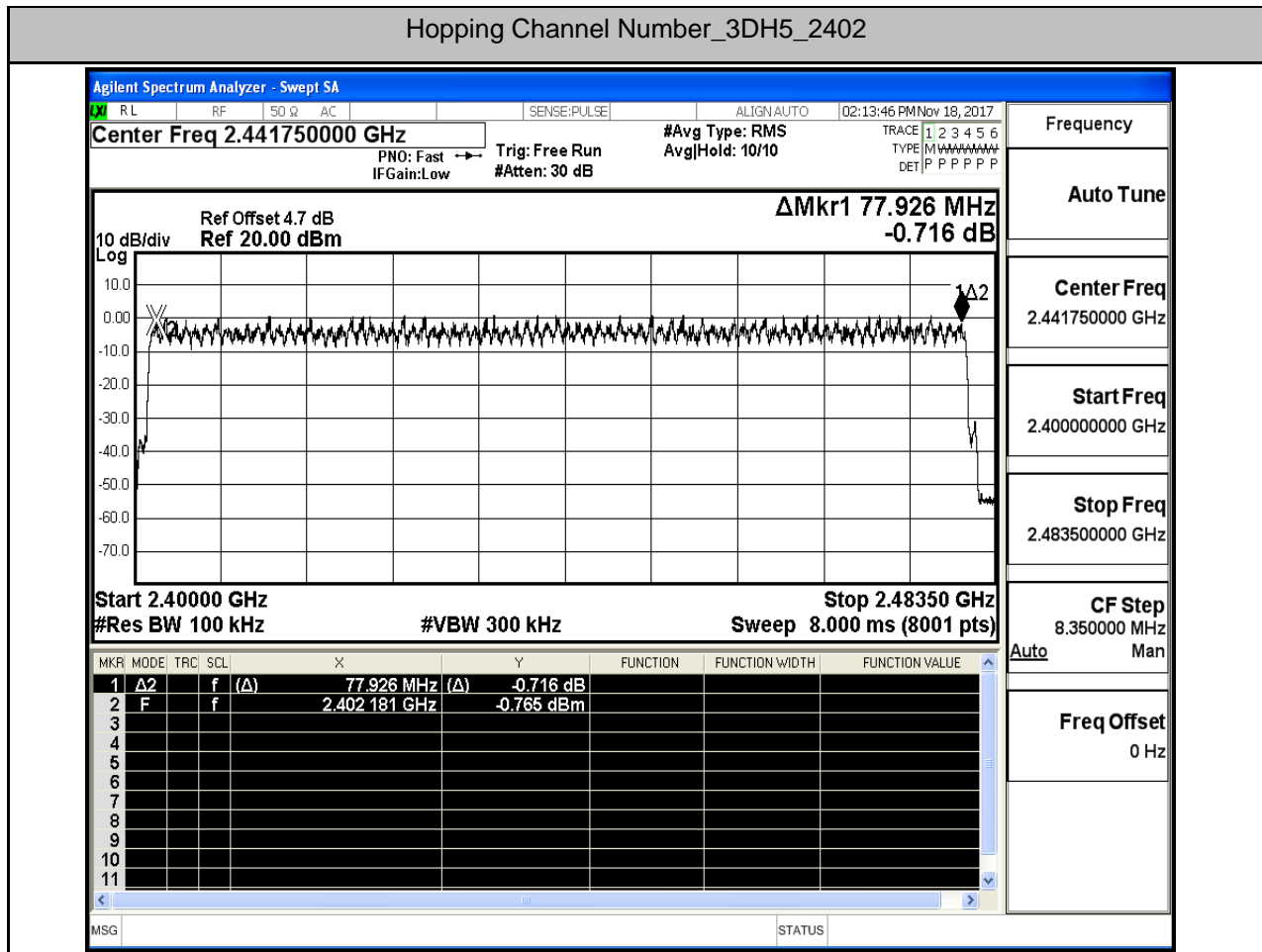
Dwell Time_3DH5_2480



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
3DH5	2402	79	≥ 15	PASS

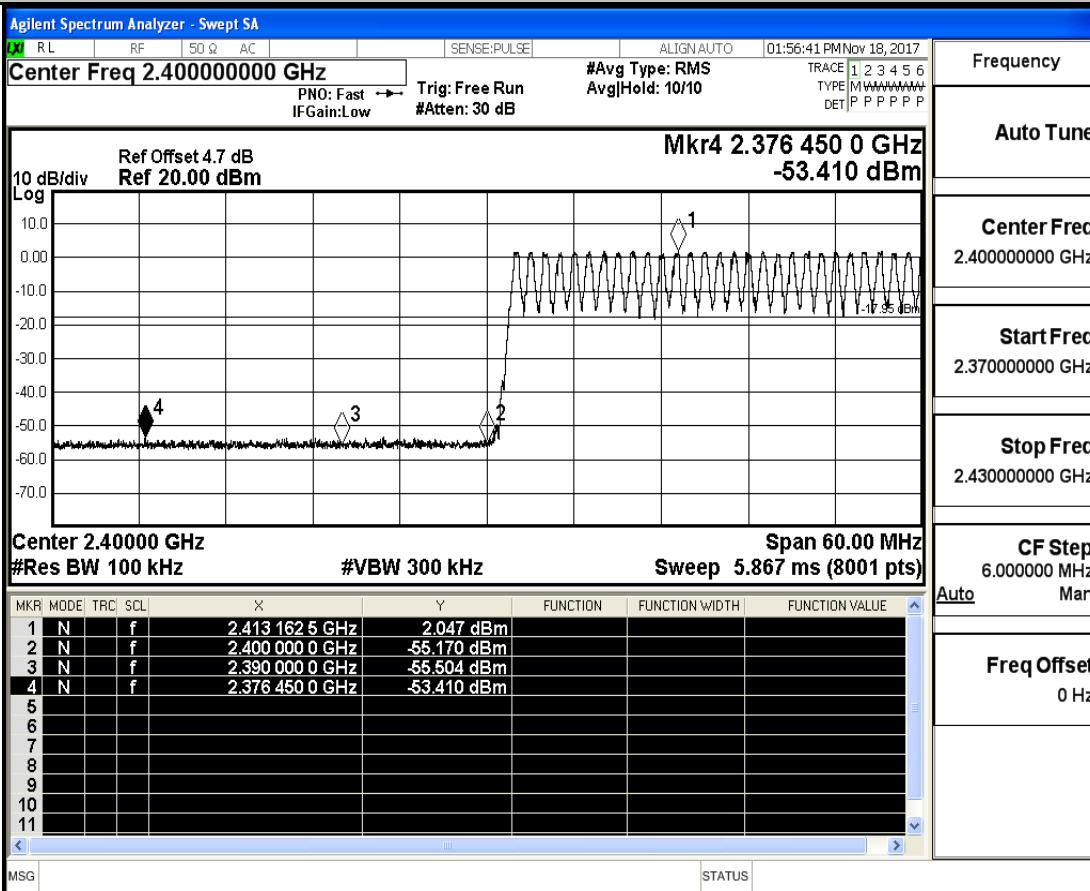
Hopping Channel Number_3DH5_2402



7.Band-edge for RF Conducted Emissions

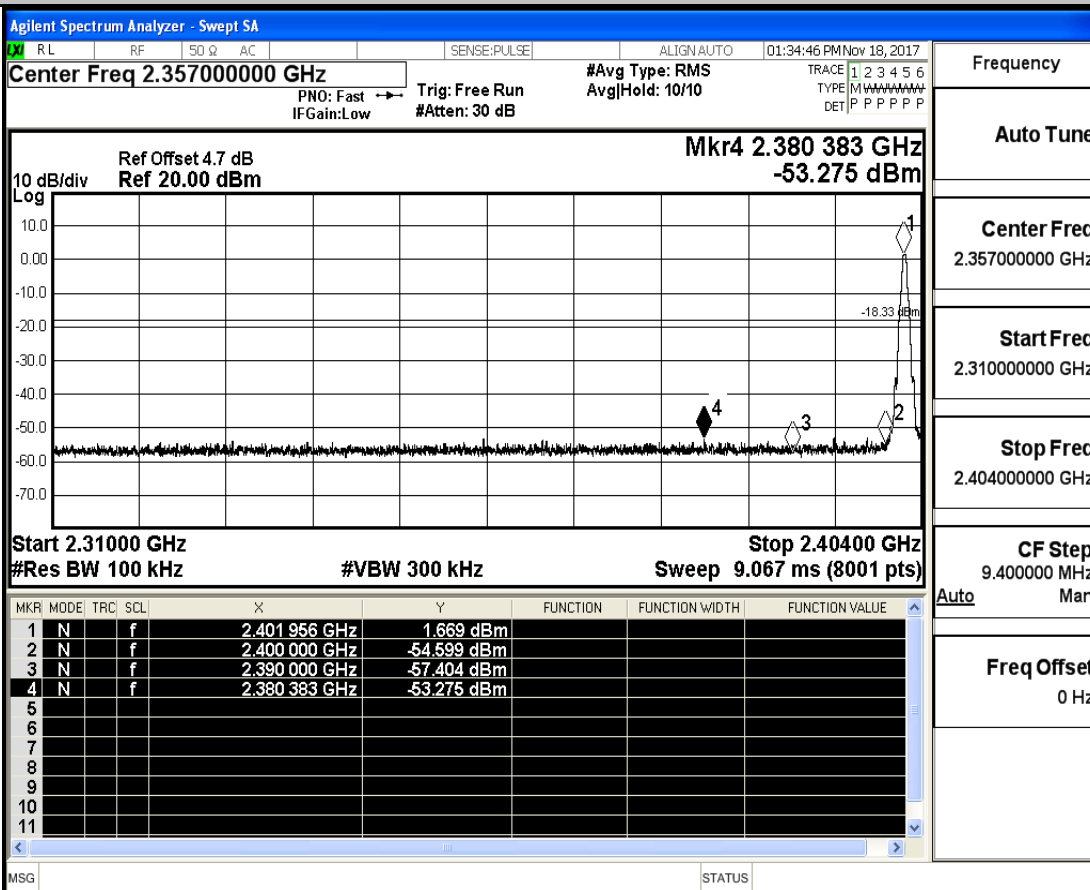
Test Mode	Test Channel	Hopping	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit[dBm]	Verdict
DH5	2402	On	2.047	-53.410	-17.95	PASS
DH5	2402	Off	1.669	-53.275	-18.33	PASS
DH5	2480	On	2.136	-52.758	-17.86	PASS
DH5	2480	Off	2.020	-53.052	-17.98	PASS
2DH5	2402	On	0.498	-52.853	-19.5	PASS
2DH5	2402	Off	-2.700	-53.487	-22.7	PASS
2DH5	2480	On	0.909	-53.127	-19.09	PASS
2DH5	2480	Off	0.966	-52.835	-19.03	PASS
3DH5	2402	On	0.594	-52.432	-19.41	PASS
3DH5	2402	Off	-0.902	-53.523	-20.9	PASS
3DH5	2480	On	1.031	-52.472	-18.97	PASS
3DH5	2480	Off	0.717	-53.319	-19.28	PASS

Band-edge for RF Conducted Emissions_DH5_2402_Hopping On



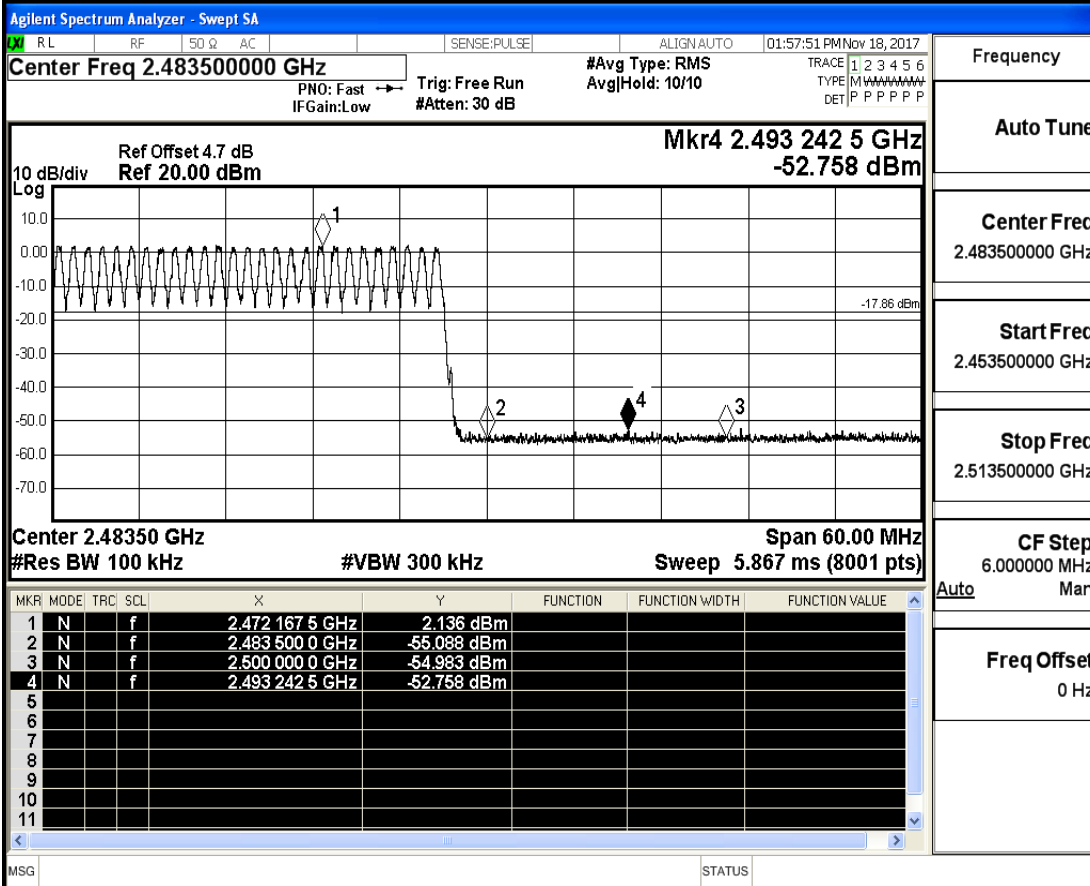
Frequency	
Auto Tune	
Center Freq	2.400000000 GHz
Start Freq	2.370000000 GHz
Stop Freq	2.430000000 GHz
CF Step	6.000000 MHz
Freq Offset	0 Hz

Band-edge for RF Conducted Emissions_DH5_2402_Hopping Off



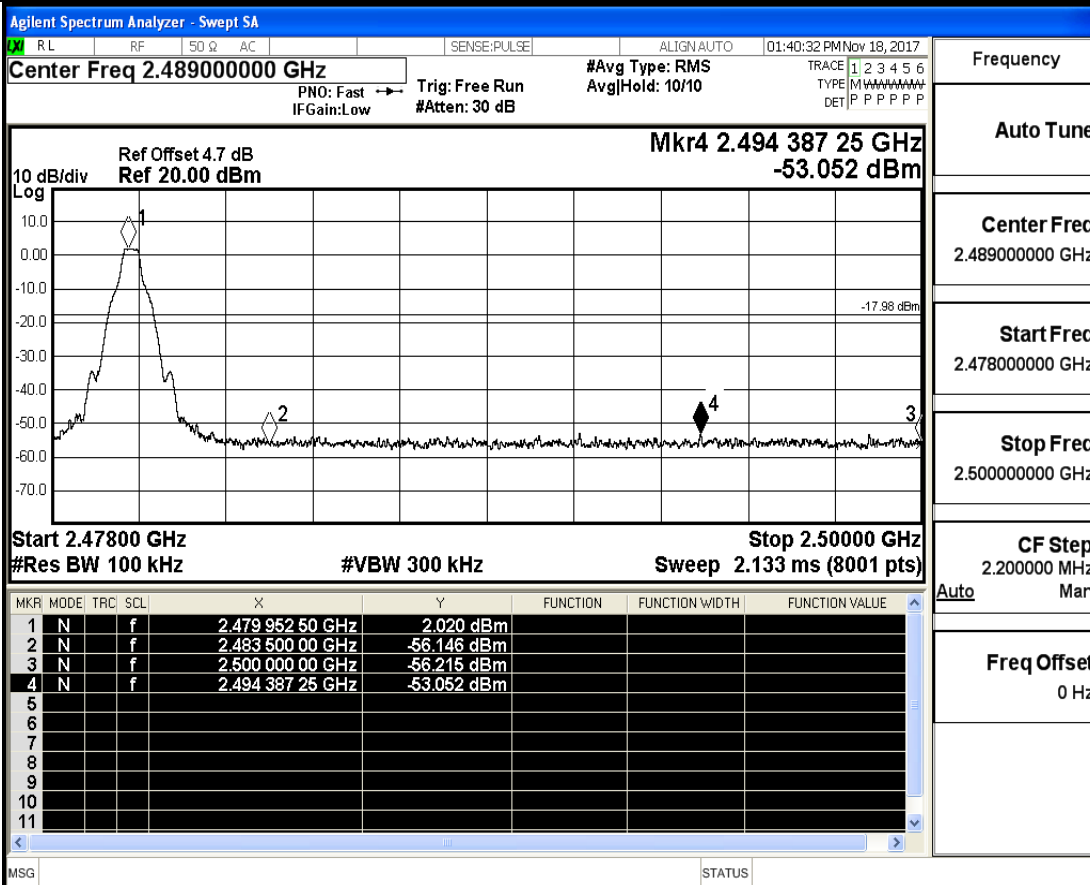
Frequency	
Auto Tune	
Center Freq	2.357000000 GHz
Start Freq	2.310000000 GHz
Stop Freq	2.404000000 GHz
CF Step	9.400000 MHz
Freq Offset	0 Hz

Band-edge for RF Conducted Emissions_DH5_2480_Hopping On



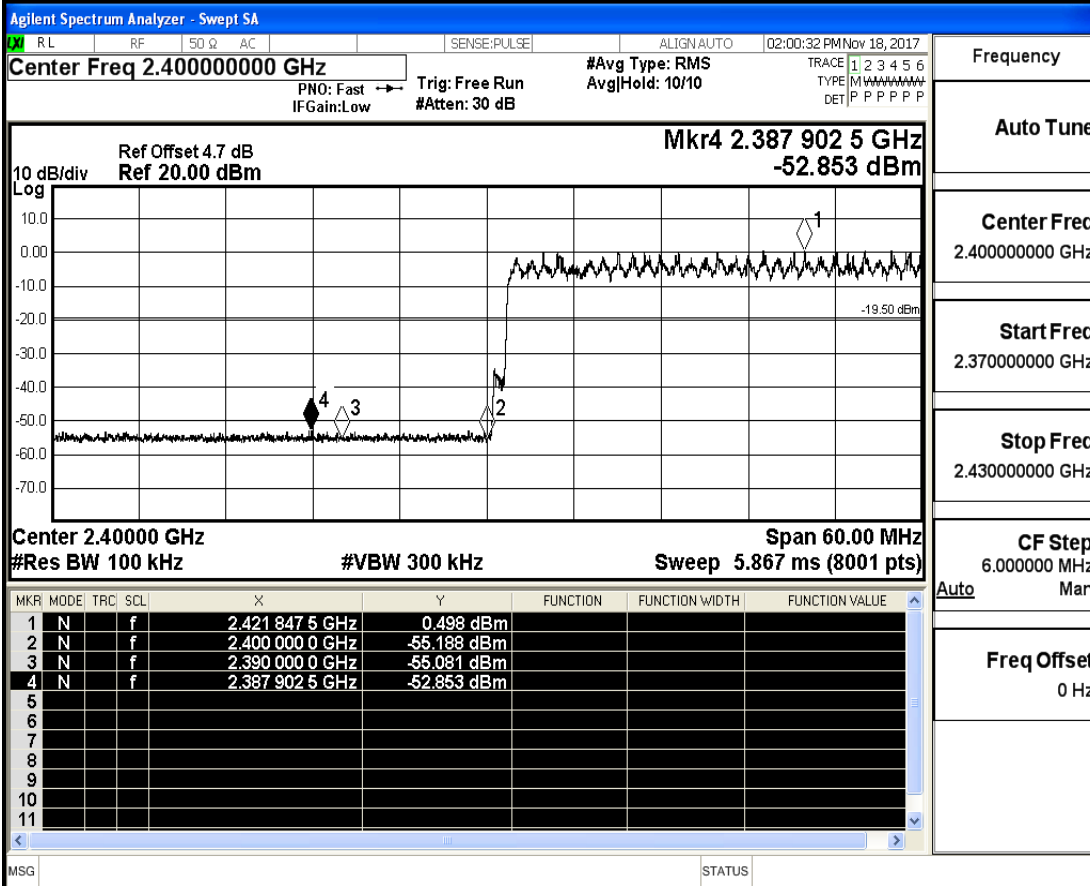
Frequency	
Auto Tune	
Center Freq	2.483500000 GHz
Start Freq	2.453500000 GHz
Stop Freq	2.513500000 GHz
CF Step	6.000000 MHz
Auto	Man
Freq Offset	0 Hz

Band-edge for RF Conducted Emissions_DH5_2480_Hopping Off



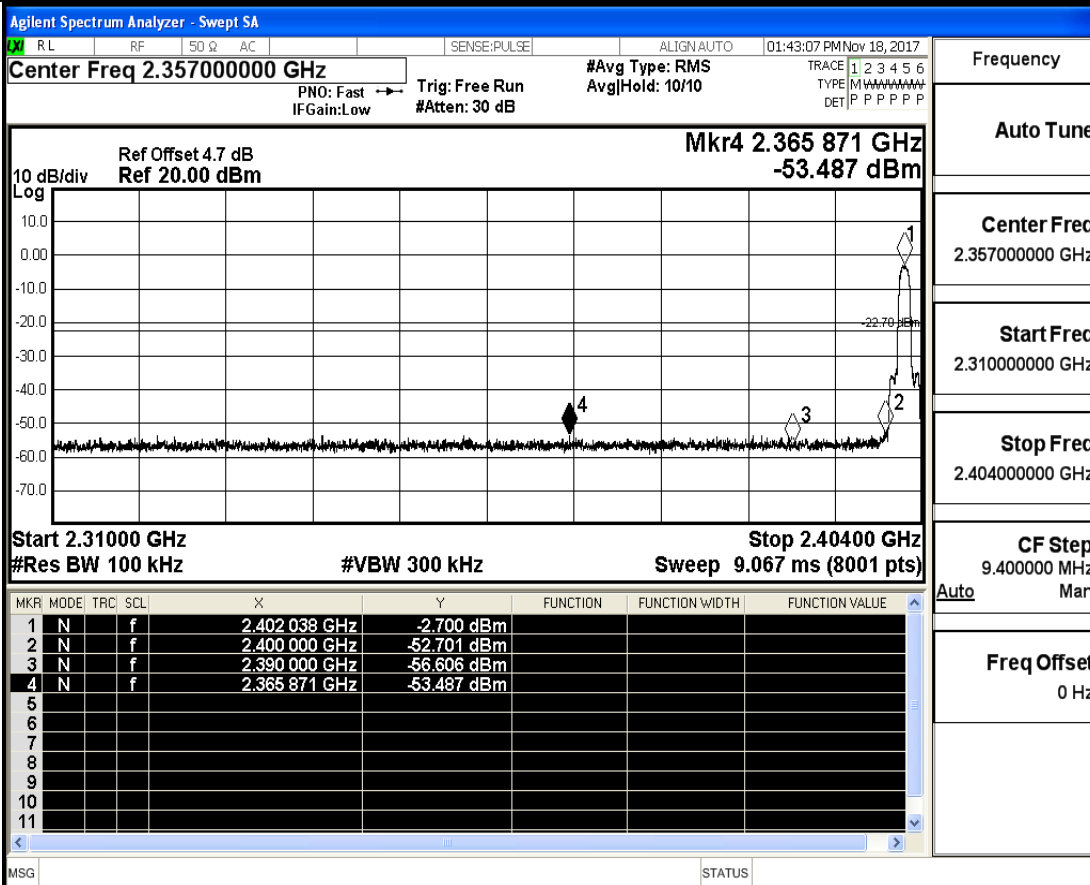
Frequency	
Auto Tune	
Center Freq	2.489000000 GHz
Start Freq	2.478000000 GHz
Stop Freq	2.500000000 GHz
CF Step	2.200000 MHz
Auto	Man
Freq Offset	0 Hz

Band-edge for RF Conducted Emissions_2DH5_2402_Hopping On



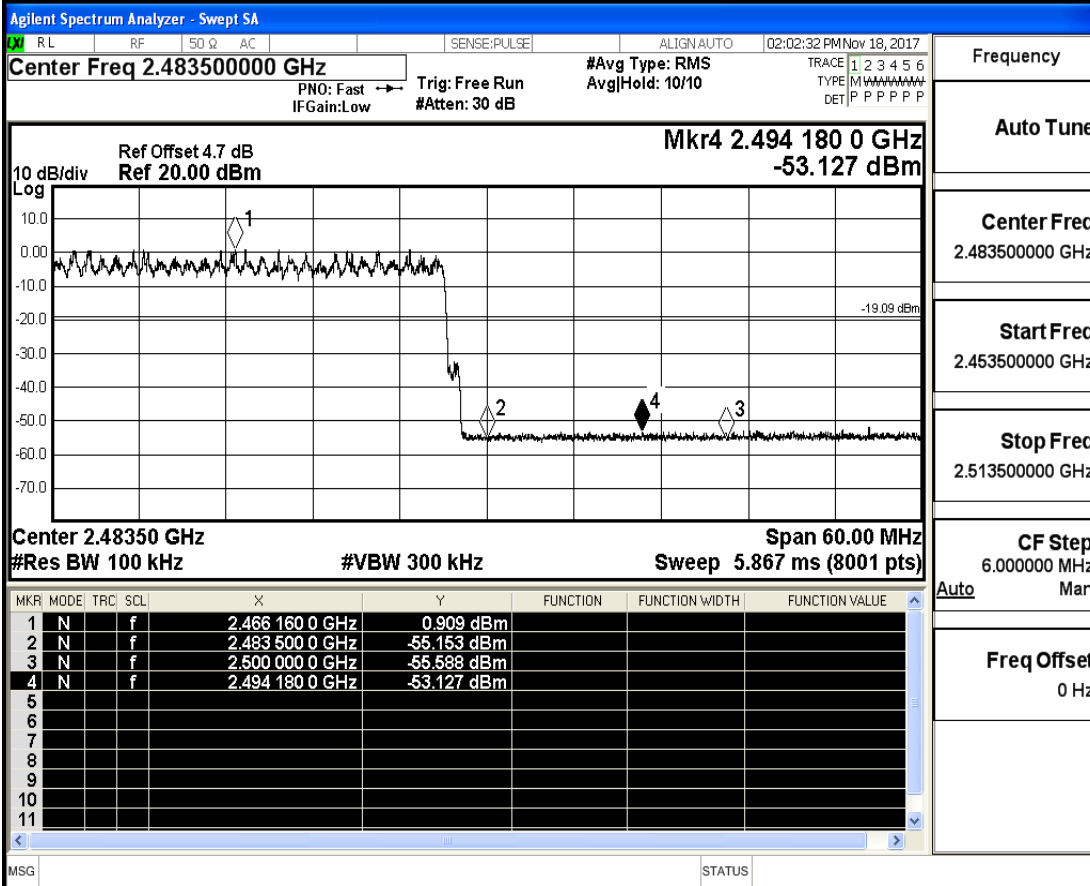
Frequency	
Auto Tune	
Center Freq	2.40000000 GHz
Start Freq	2.37000000 GHz
Stop Freq	2.43000000 GHz
CF Step	6.000000 MHz
Freq Offset	0 Hz

Band-edge for RF Conducted Emissions_2DH5_2402_Hopping Off



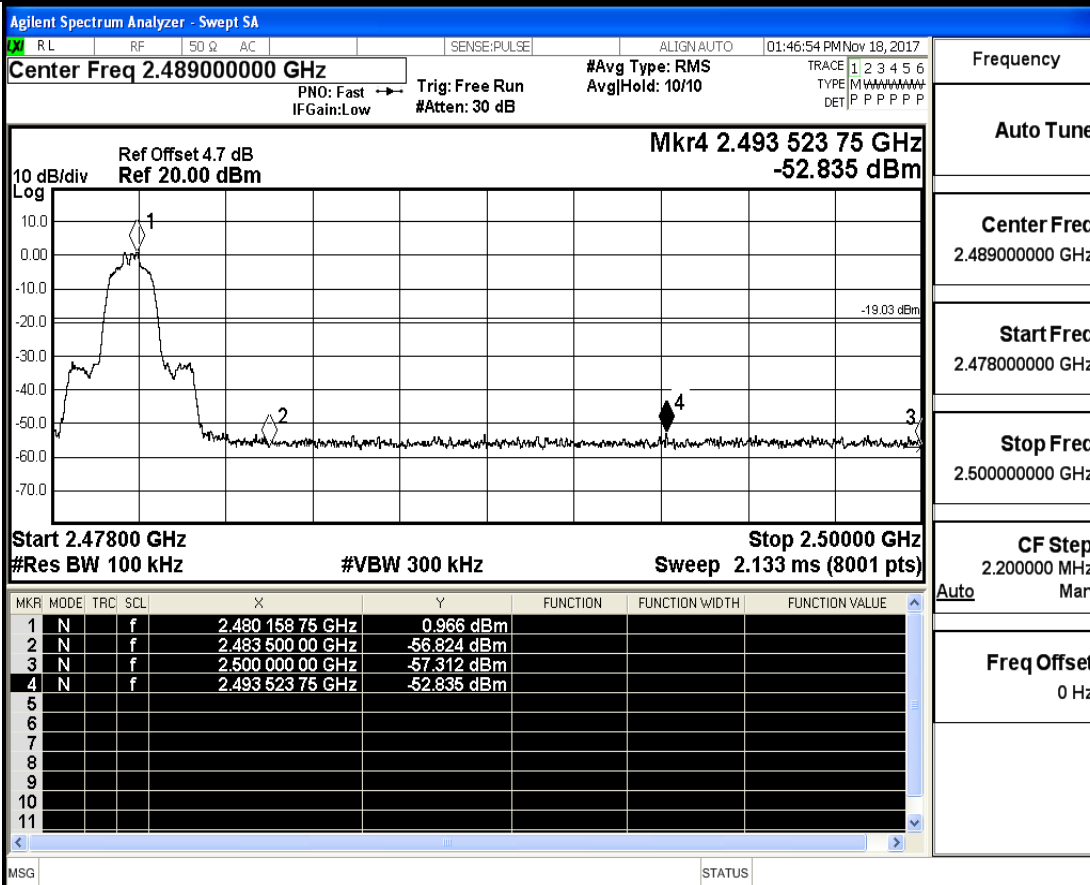
Frequency	
Auto Tune	
Center Freq	2.35700000 GHz
Start Freq	2.31000000 GHz
Stop Freq	2.40400000 GHz
CF Step	9.400000 MHz
Freq Offset	0 Hz

Band-edge for RF Conducted Emissions_2DH5_2480_Hopping On



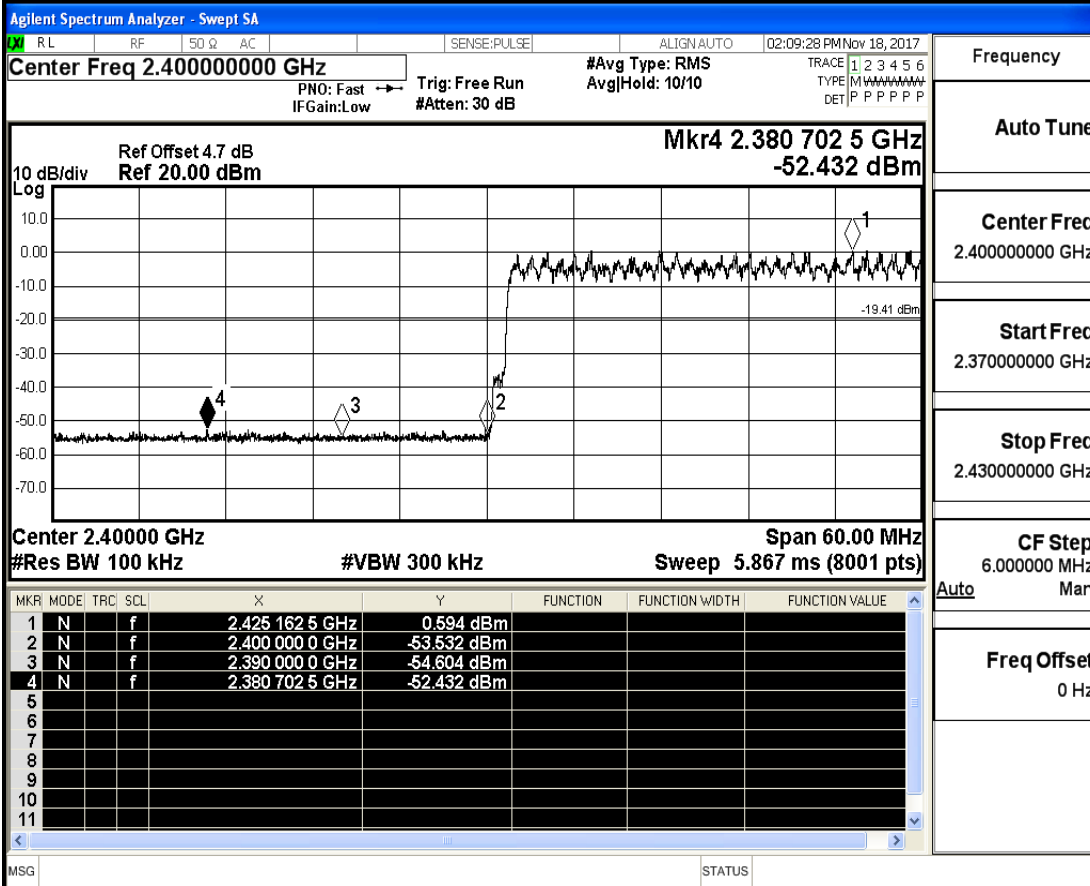
Frequency
Auto Tune
Center Freq 2.483500000 GHz
Start Freq 2.453500000 GHz
Stop Freq 2.513500000 GHz
CF Step 6.000000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_2DH5_2480_Hopping Off



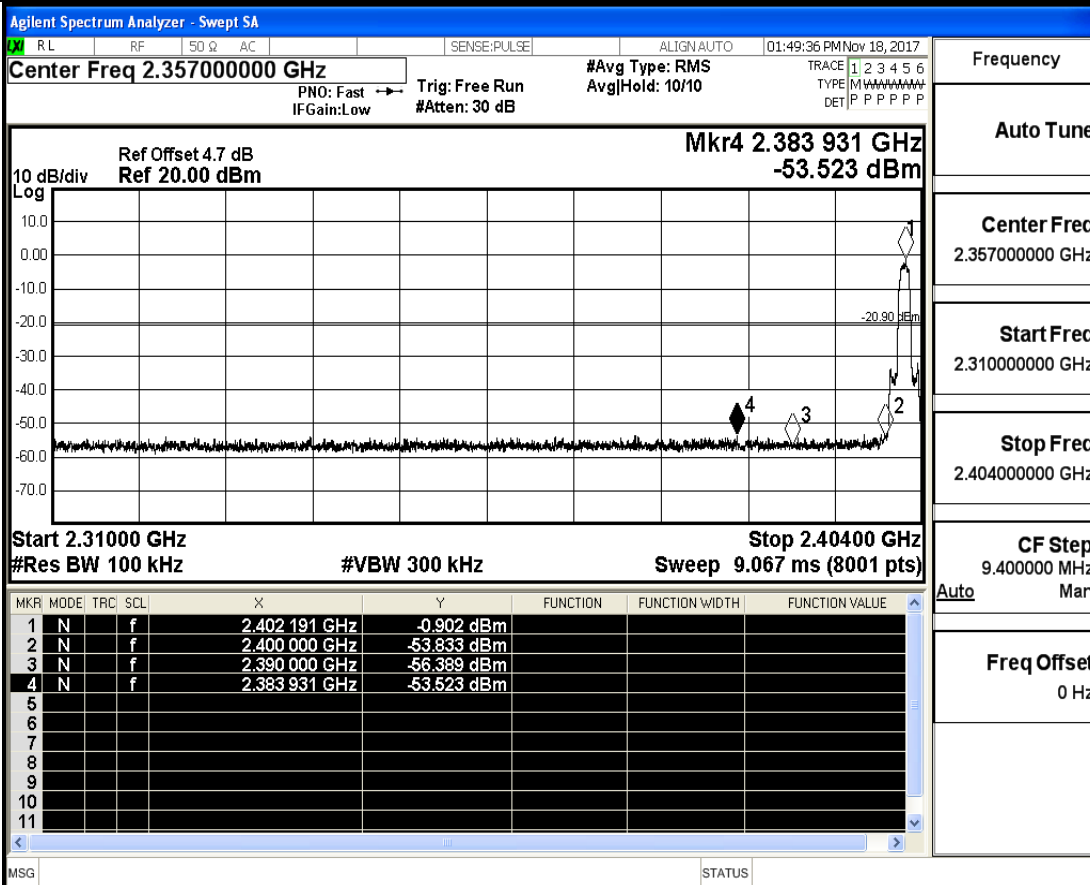
Frequency
Auto Tune
Center Freq 2.489000000 GHz
Start Freq 2.478000000 GHz
Stop Freq 2.500000000 GHz
CF Step 2.200000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_3DH5_2402_Hopping On



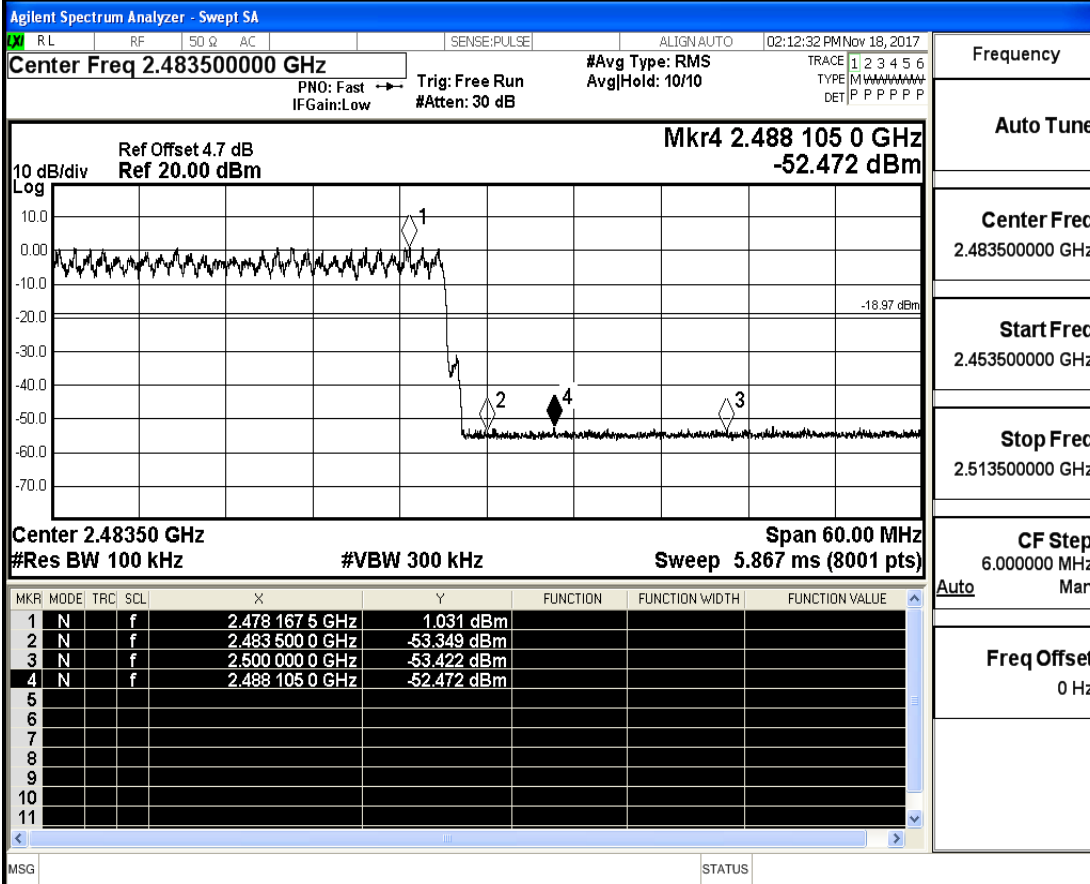
Frequency	
Auto Tune	
Center Freq	2.40000000 GHz
Start Freq	2.37000000 GHz
Stop Freq	2.43000000 GHz
CF Step	6.000000 MHz
Freq Offset	0 Hz

Band-edge for RF Conducted Emissions_3DH5_2402_Hopping Off



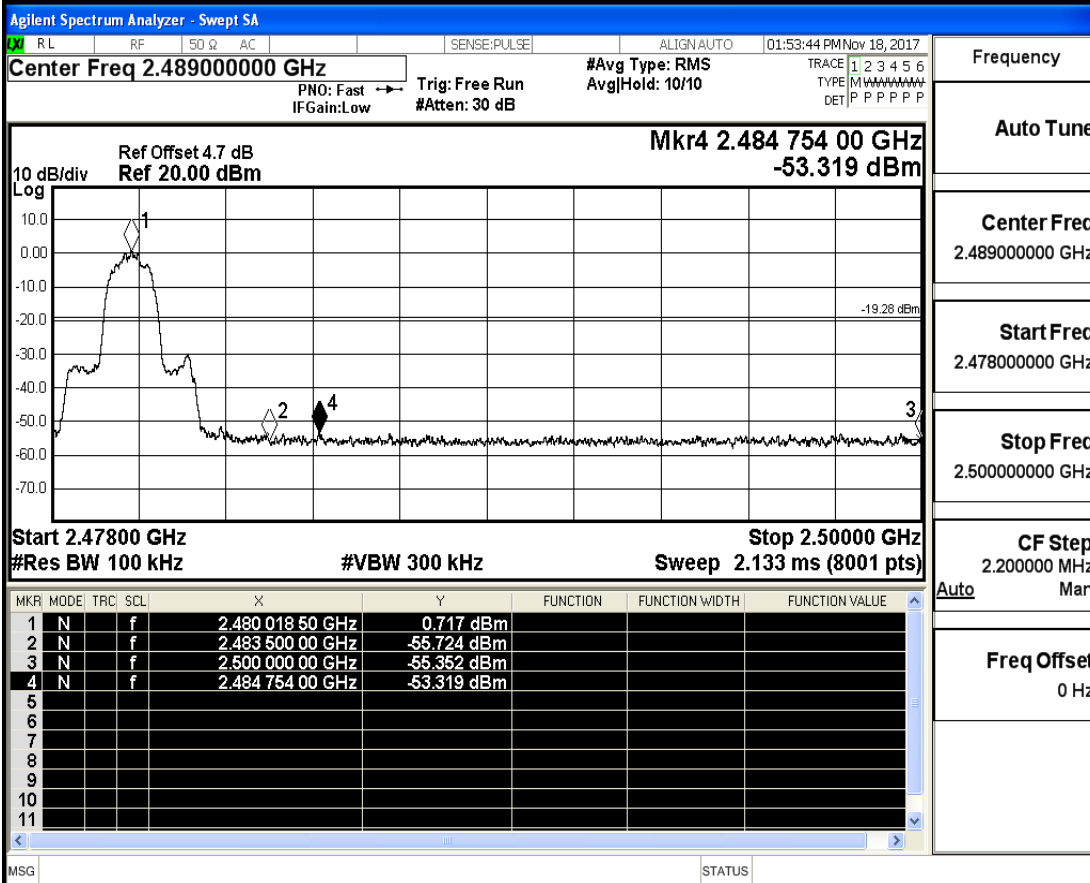
Frequency	
Auto Tune	
Center Freq	2.35700000 GHz
Start Freq	2.31000000 GHz
Stop Freq	2.40400000 GHz
CF Step	9.400000 MHz
Freq Offset	0 Hz

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
Freq Offset	0 Hz

Band-edge for RF Conducted Emissions_3DH5_2480_Hopping Off

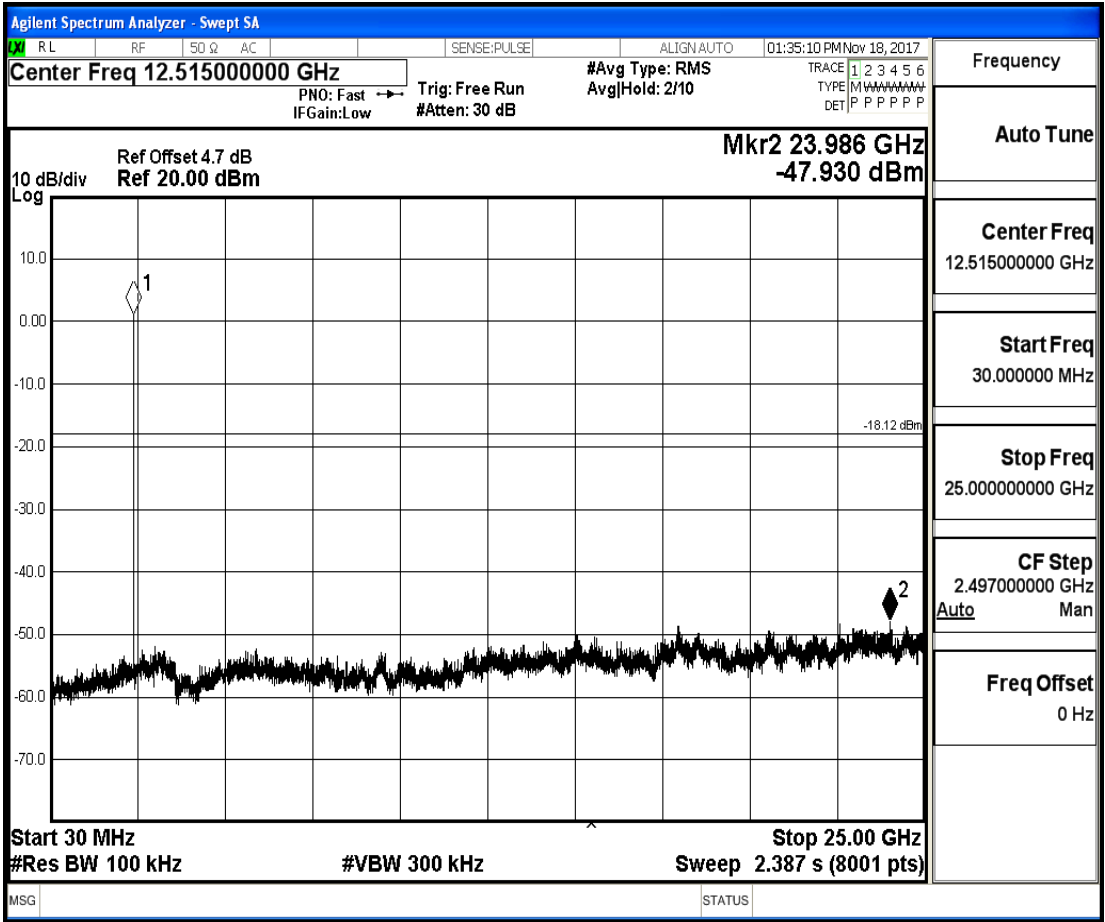
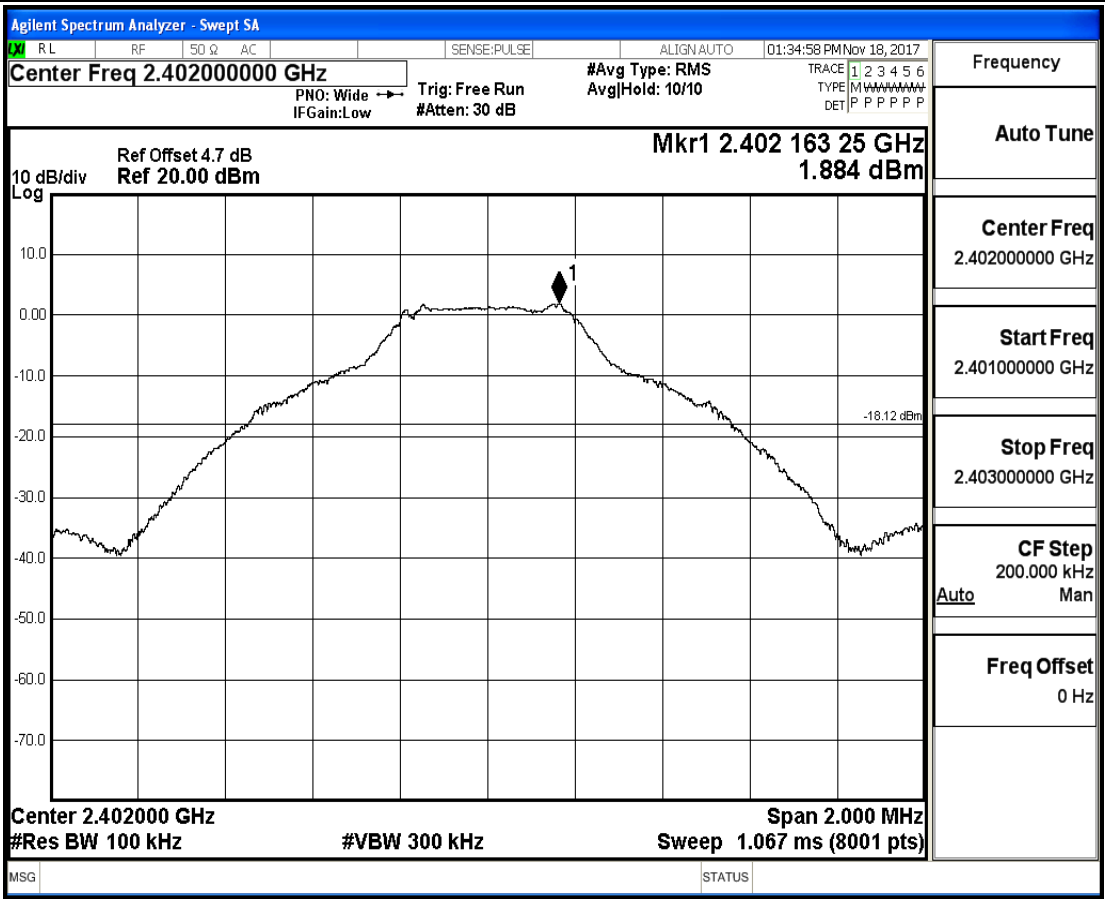


Frequency	
Auto Tune	
Center Freq	2.489000000 GHz
Start Freq	2.478000000 GHz
Stop Freq	2.500000000 GHz
CF Step	2.200000 MHz
Freq Offset	0 Hz

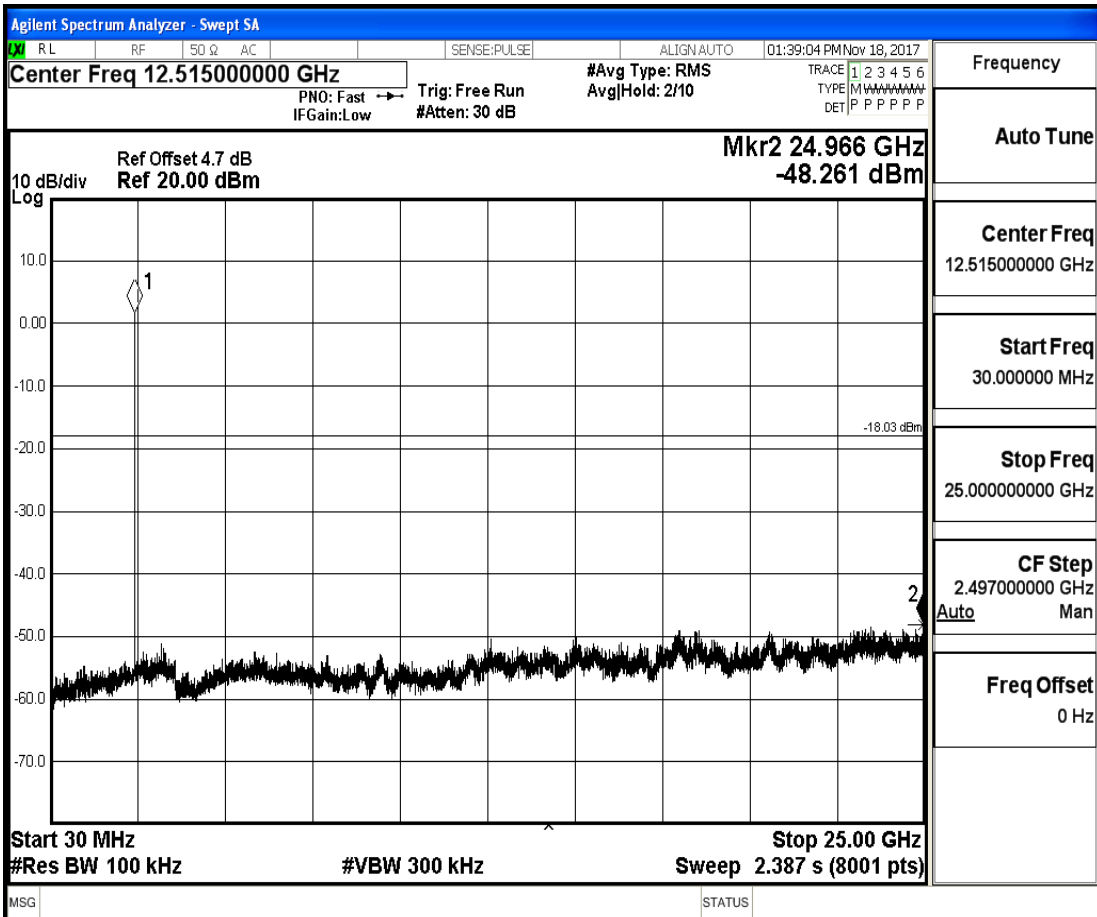
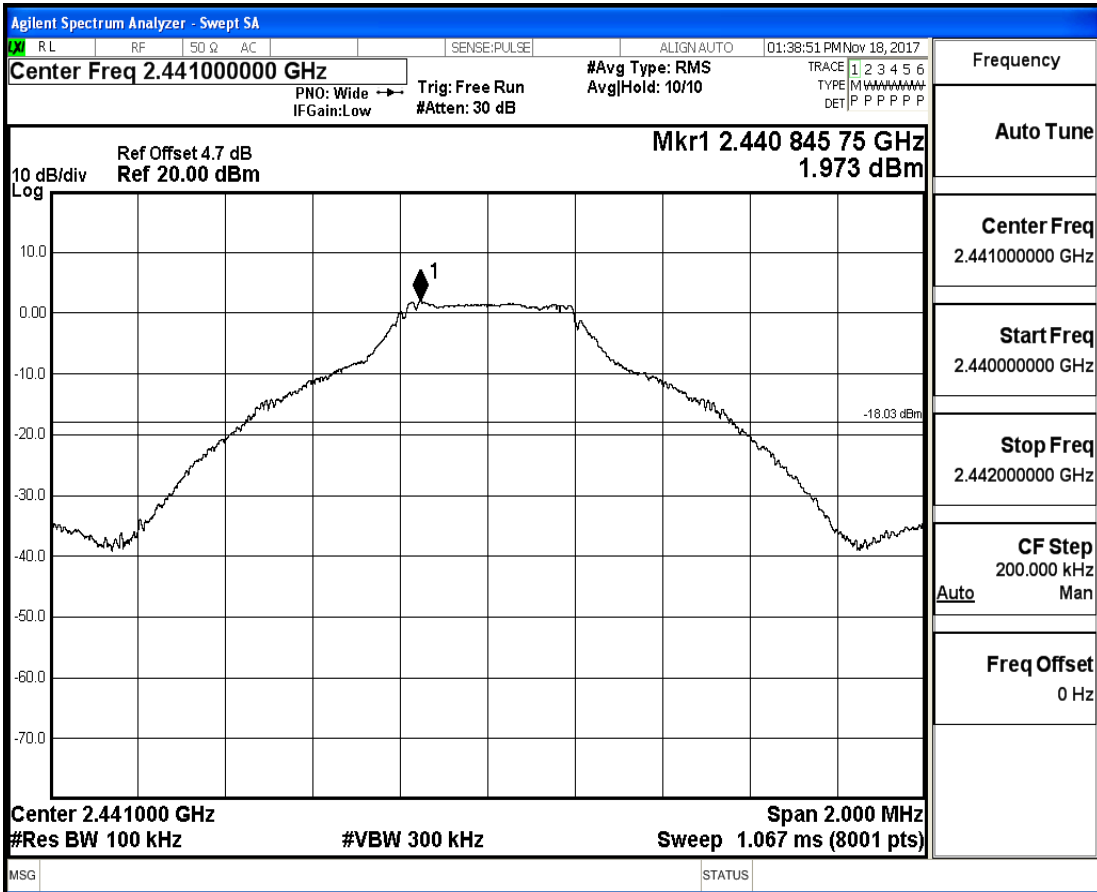
8.RF Conducted Spurious Emissions

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	1.884	-47.930	<- 18.116	PASS
DH5	2441	30	25000	100	300	1.973	-48.261	<- 18.027	PASS
DH5	2480	30	25000	100	300	2.092	-47.750	<- 17.908	PASS
2DH5	2402	30	25000	100	300	-0.332	-47.775	<- 20.332	PASS
2DH5	2441	30	25000	100	300	0.66	-48.081	<-19.34	PASS
2DH5	2480	30	25000	100	300	0.676	-48.501	<- 19.324	PASS
3DH5	2402	30	25000	100	300	0.374	-47.588	<- 19.626	PASS
3DH5	2441	30	25000	100	300	0.636	-48.243	<- 19.364	PASS
3DH5	2480	30	25000	100	300	0.951	-47.796	<- 19.049	PASS

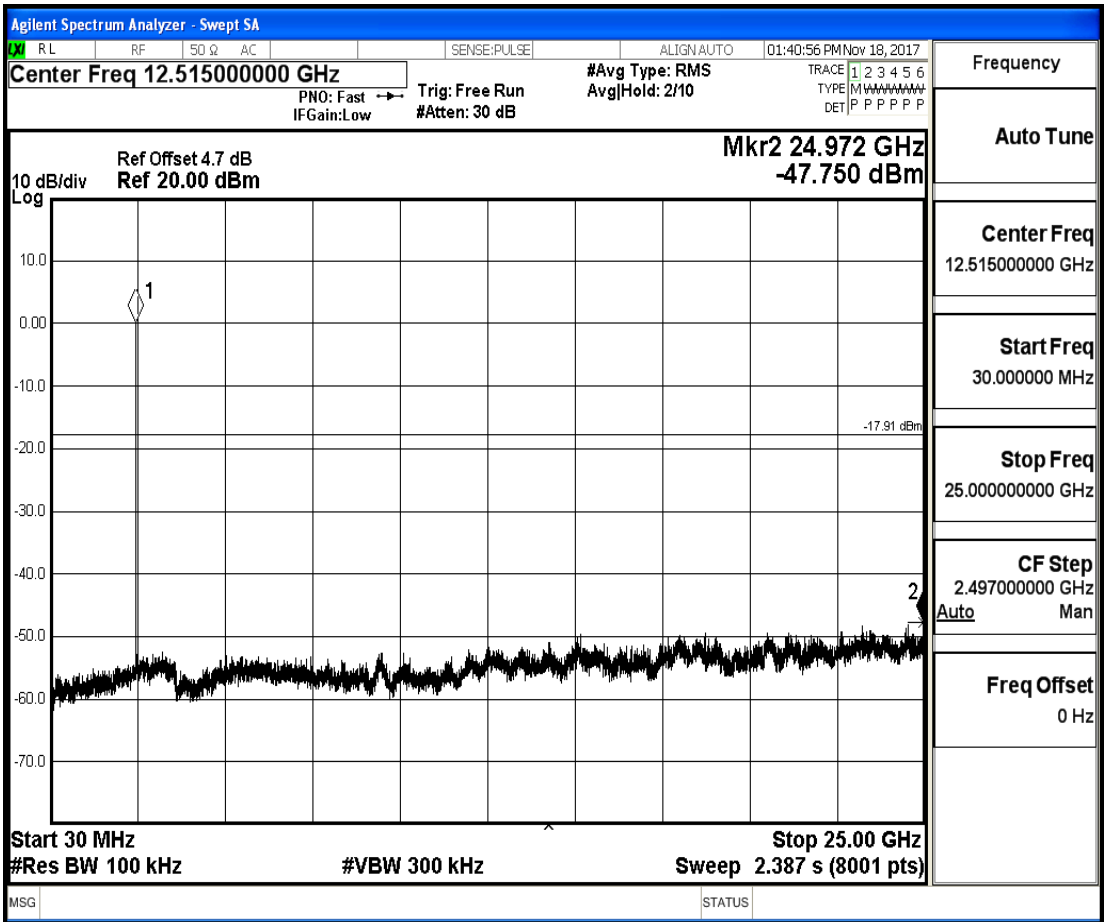
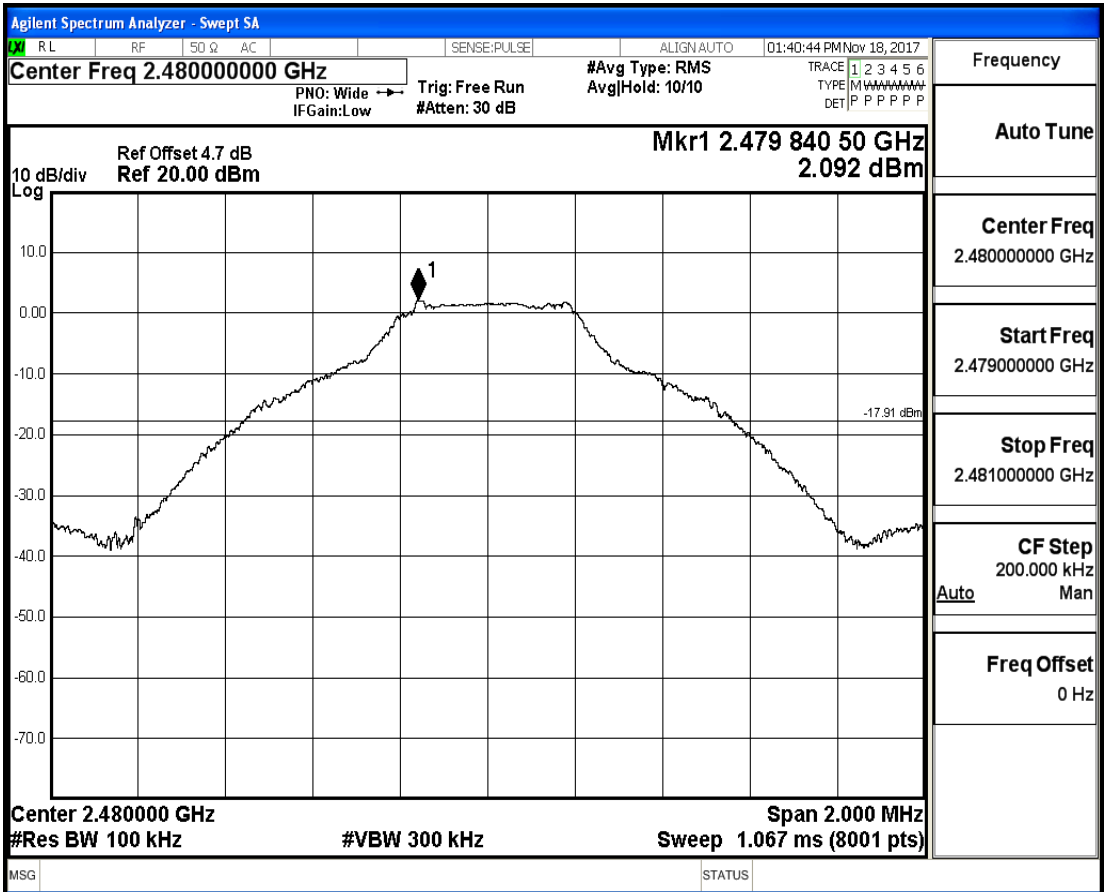
RF Conducted Spurious Emissions_DH5_2402



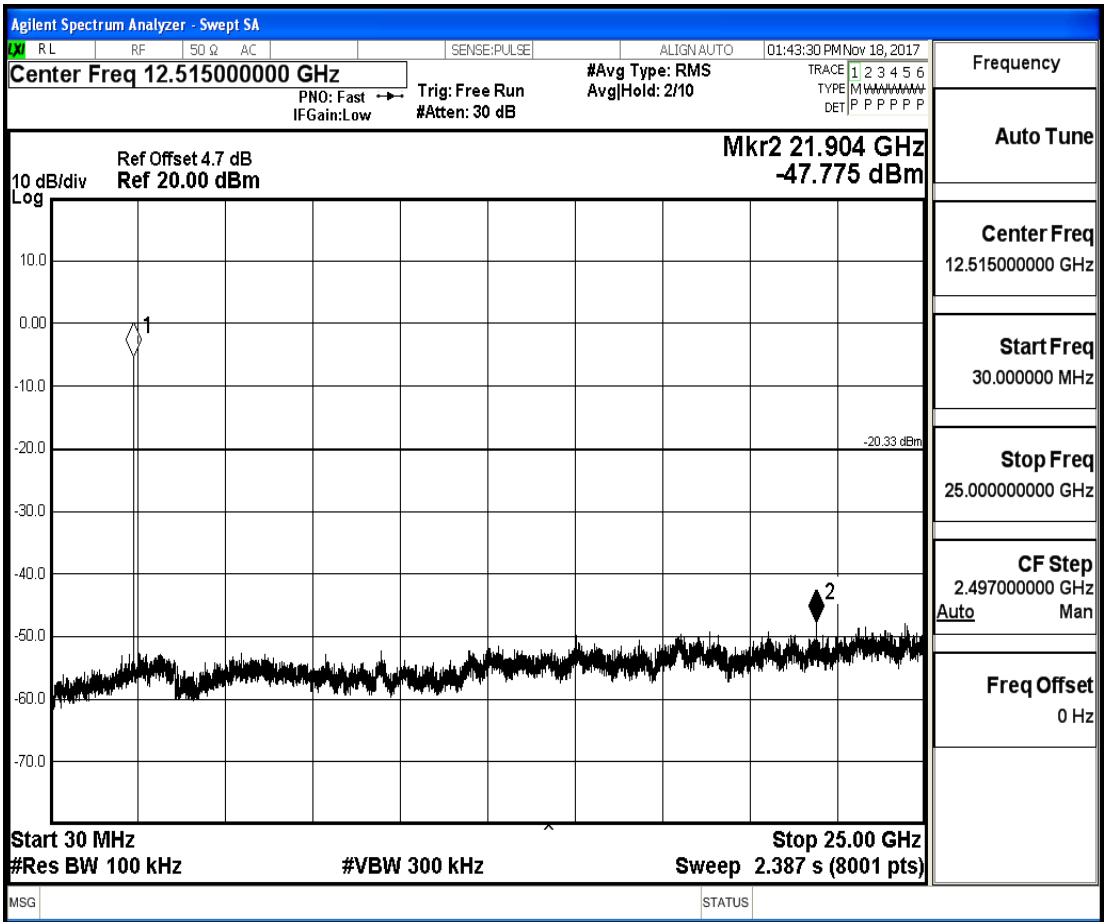
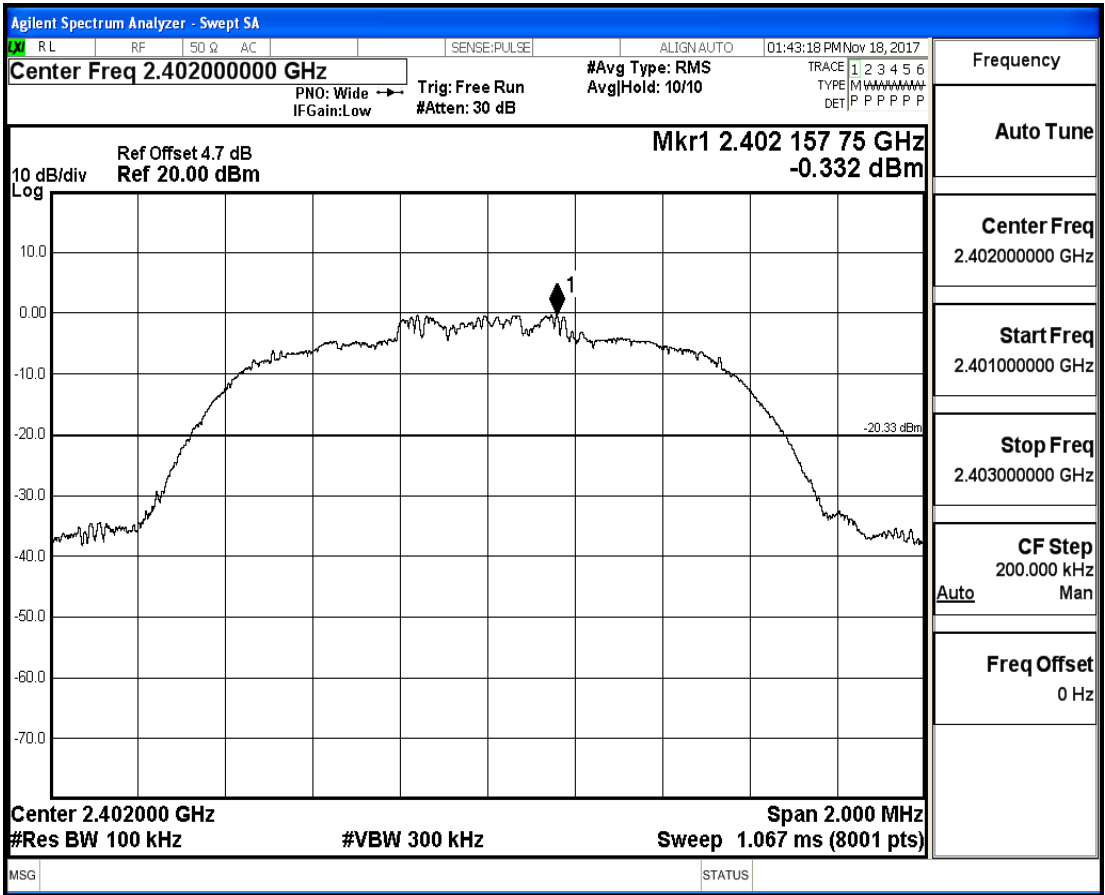
RF Conducted Spurious Emissions_DH5_2441



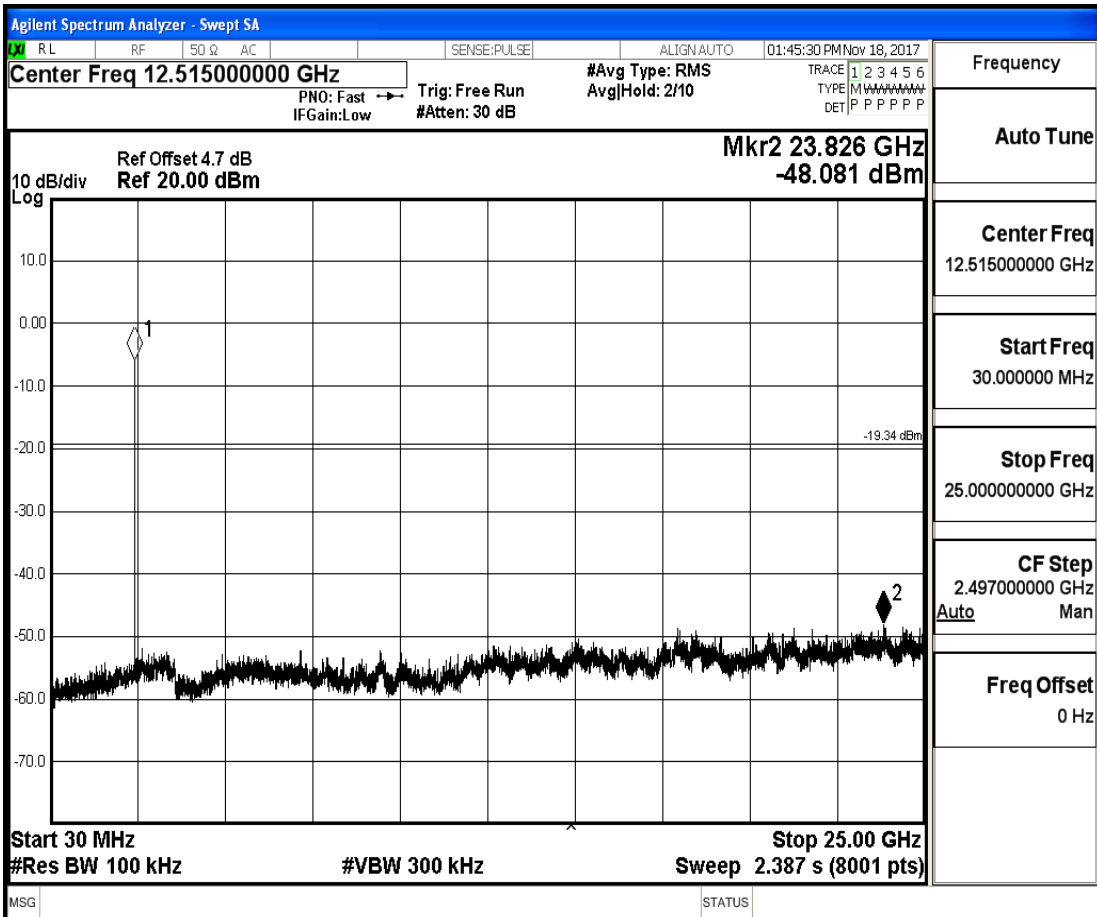
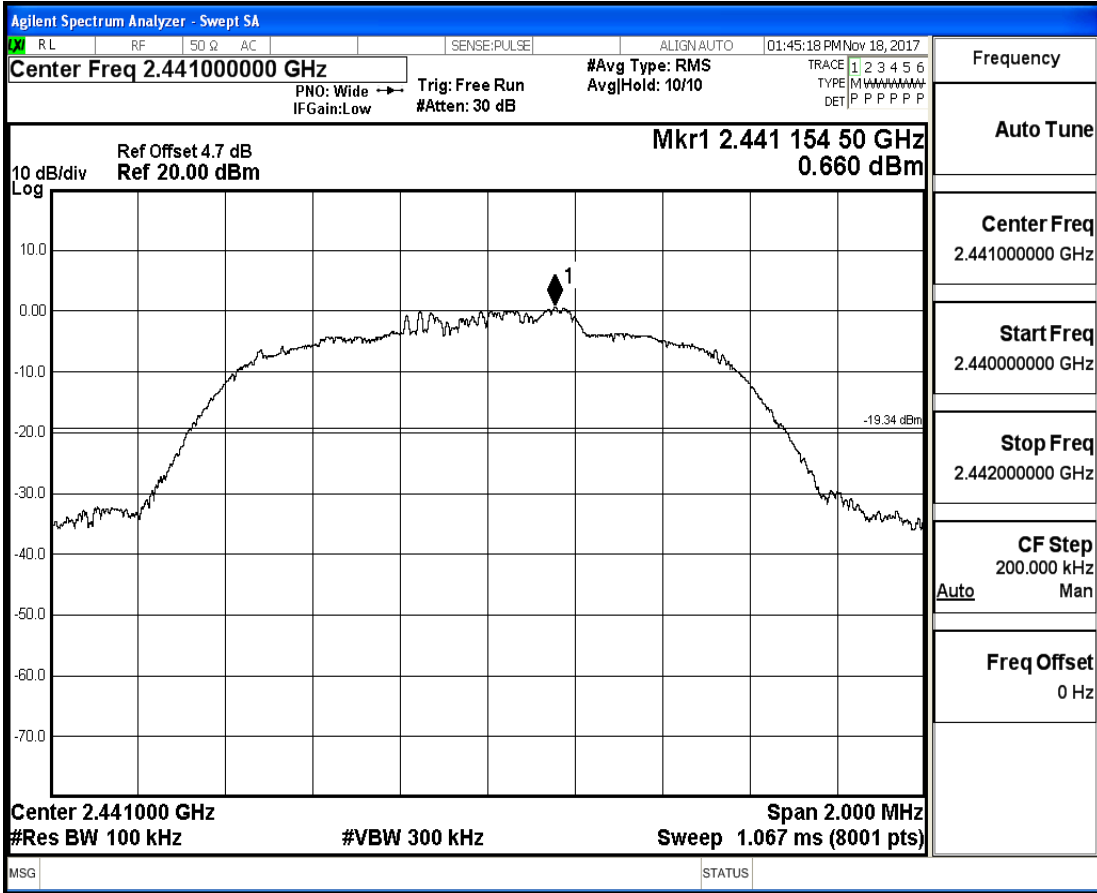
RF Conducted Spurious Emissions_DH5_2480



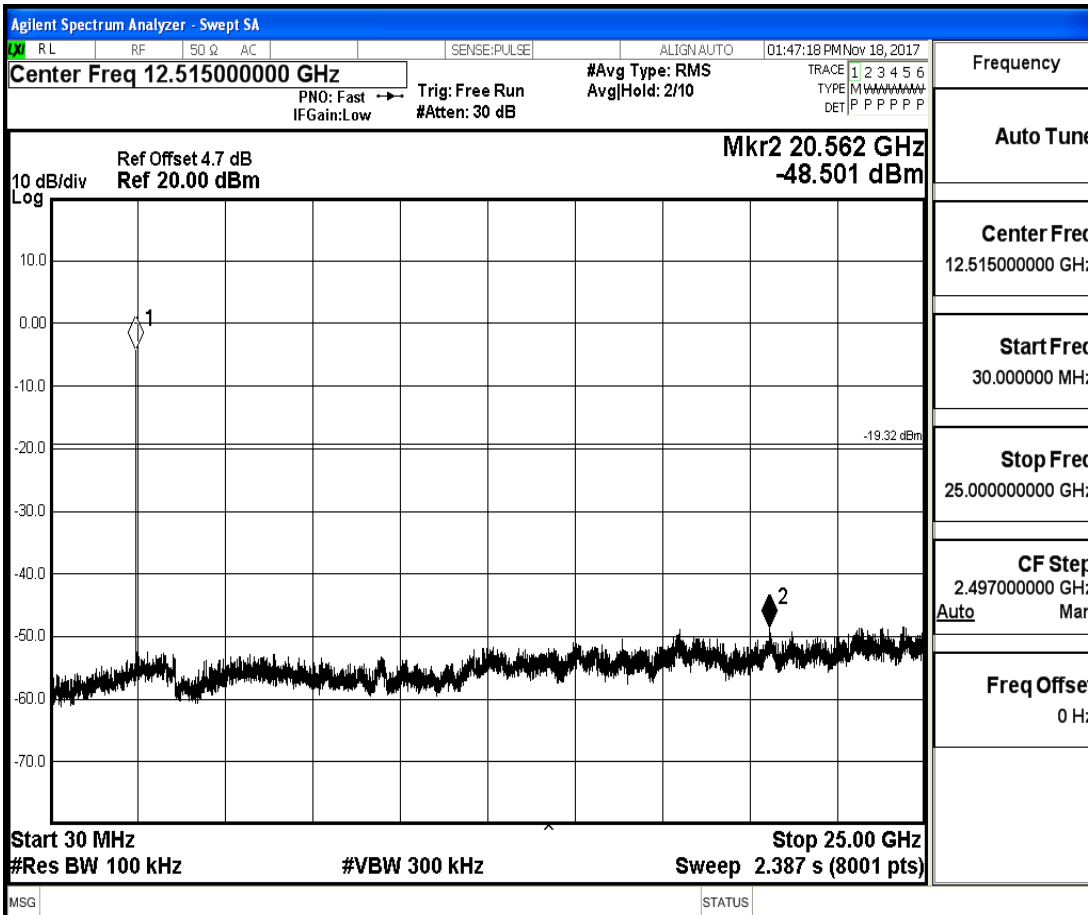
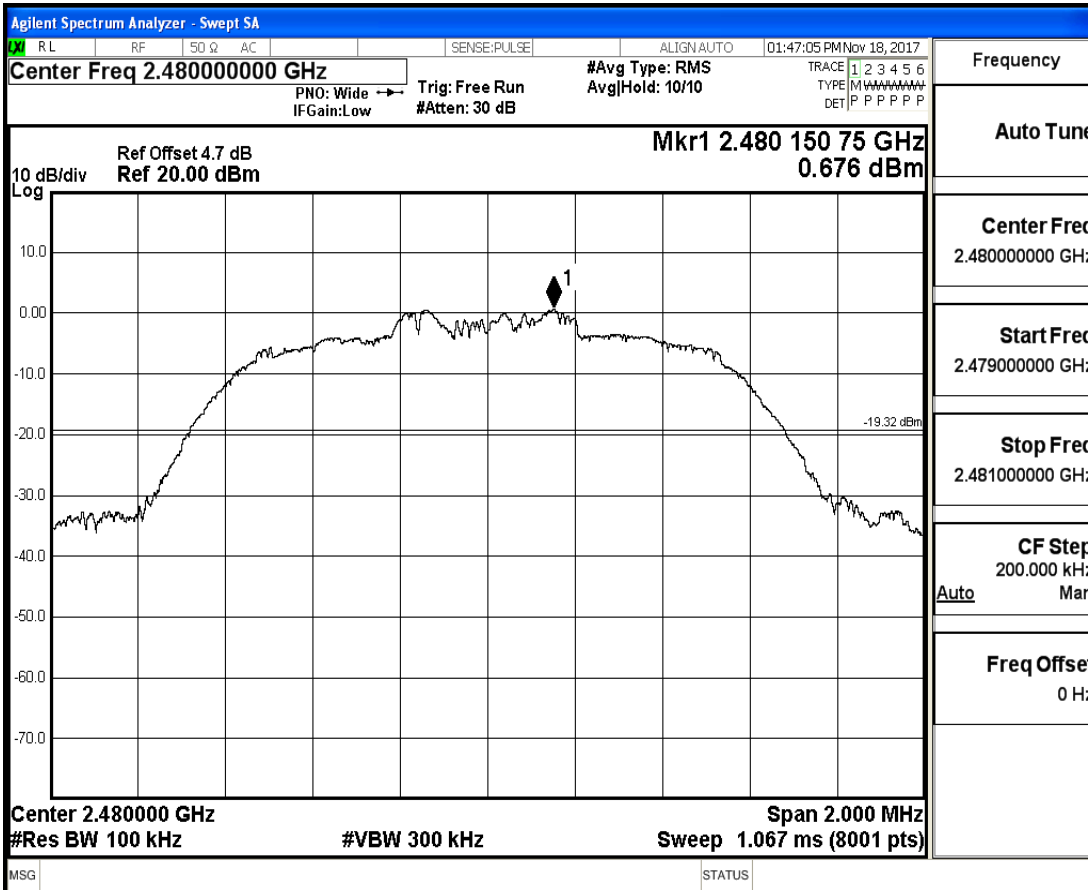
RF Conducted Spurious Emissions_2DH5_2402



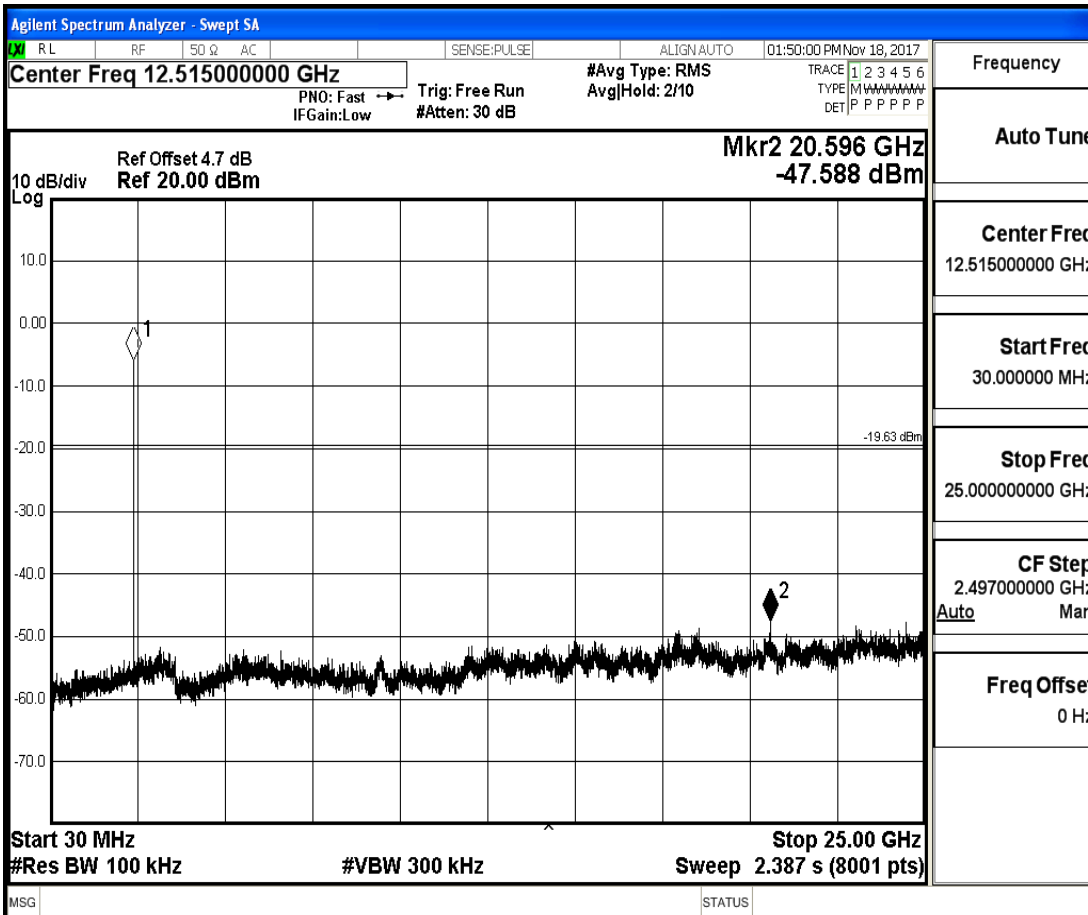
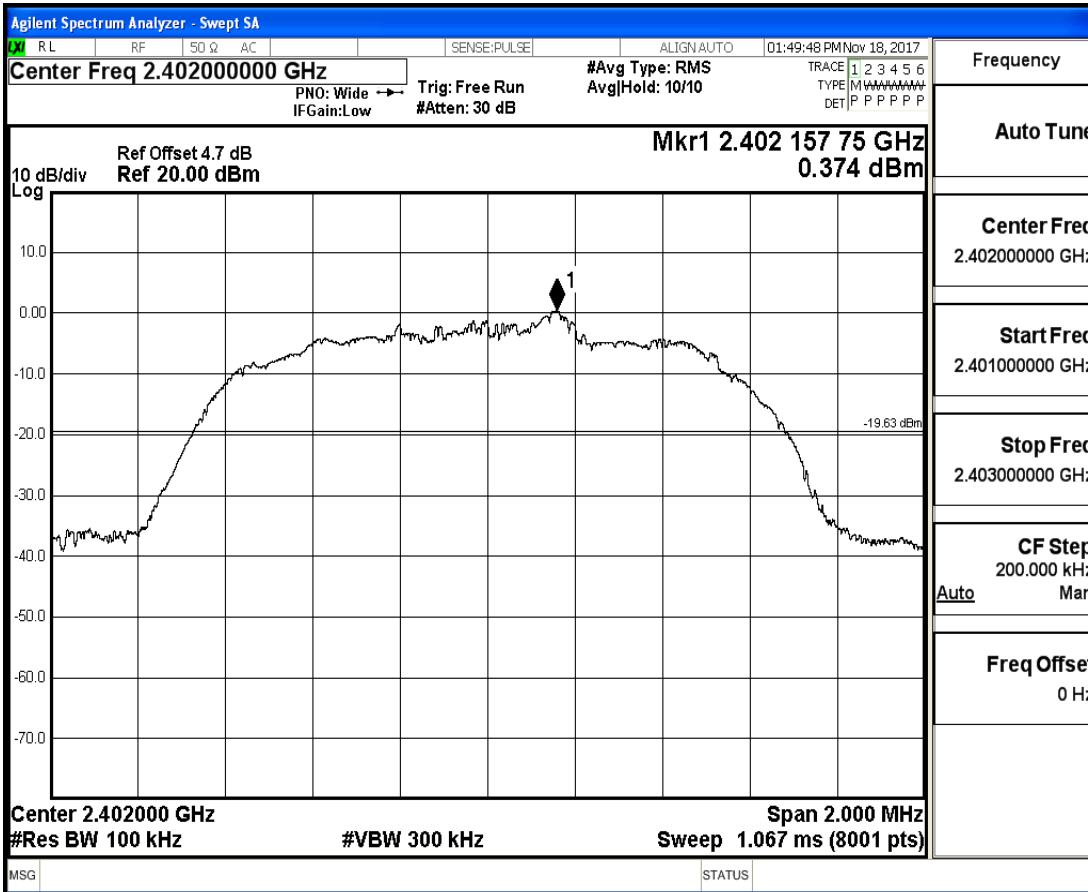
RF Conducted Spurious Emissions_2DH5_2441



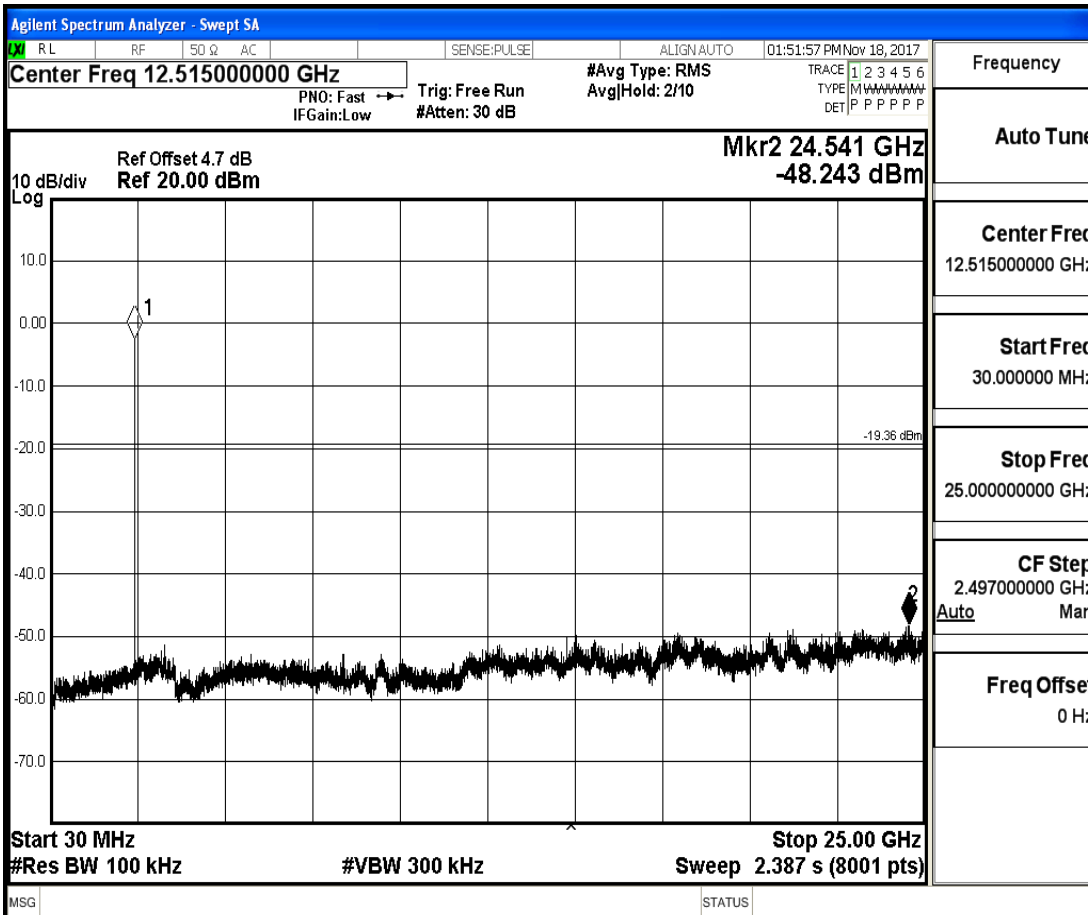
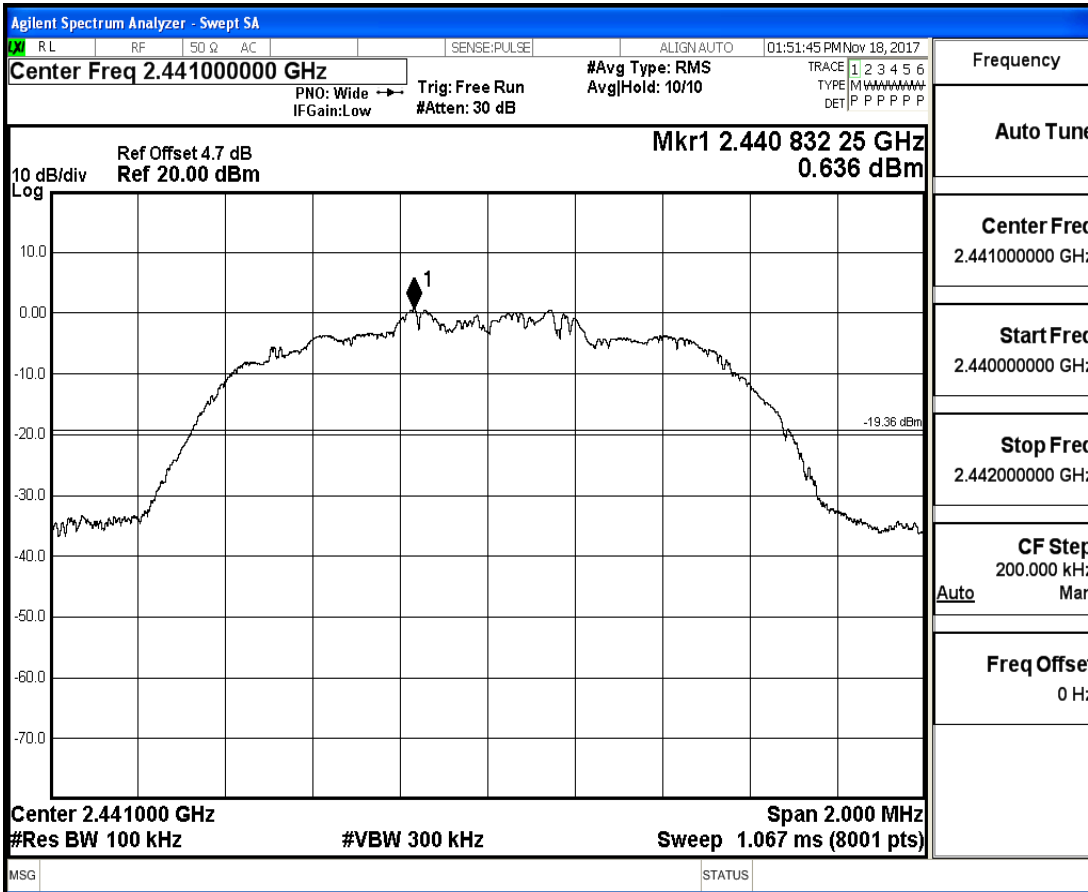
RF Conducted Spurious Emissions_2DH5_2480



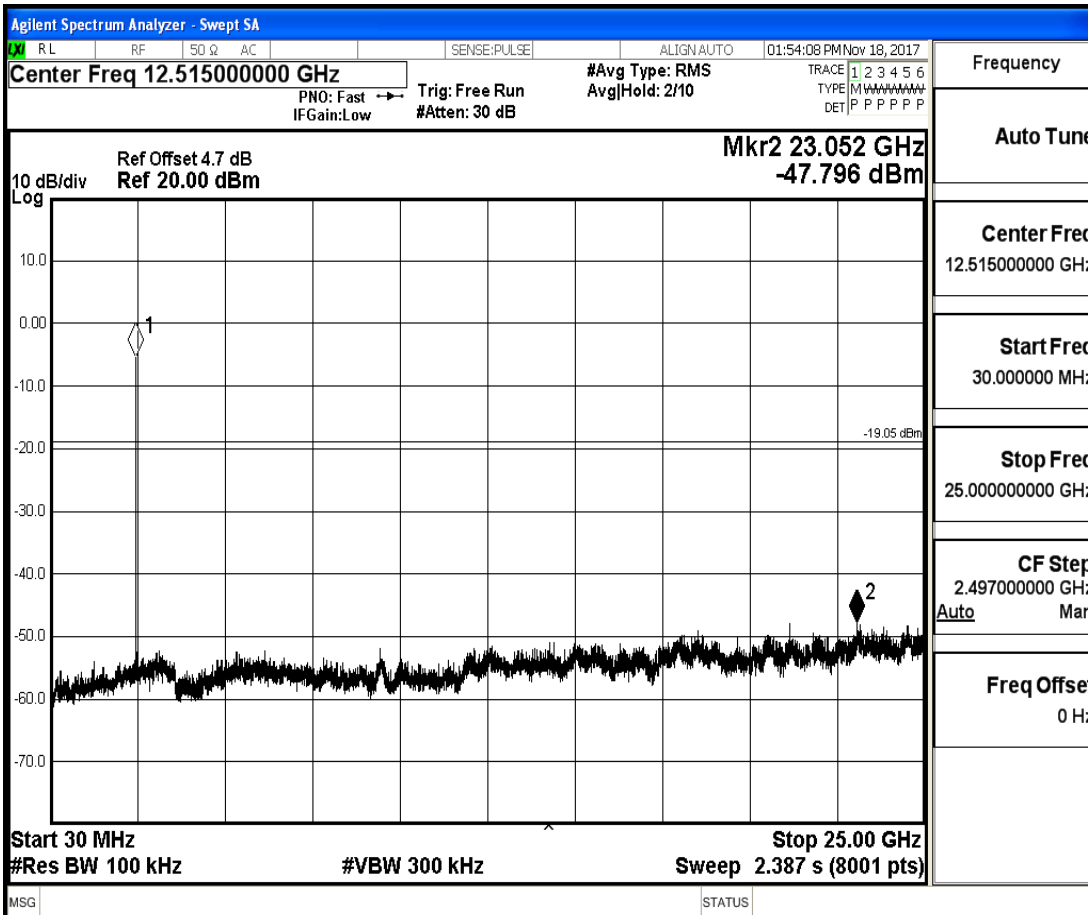
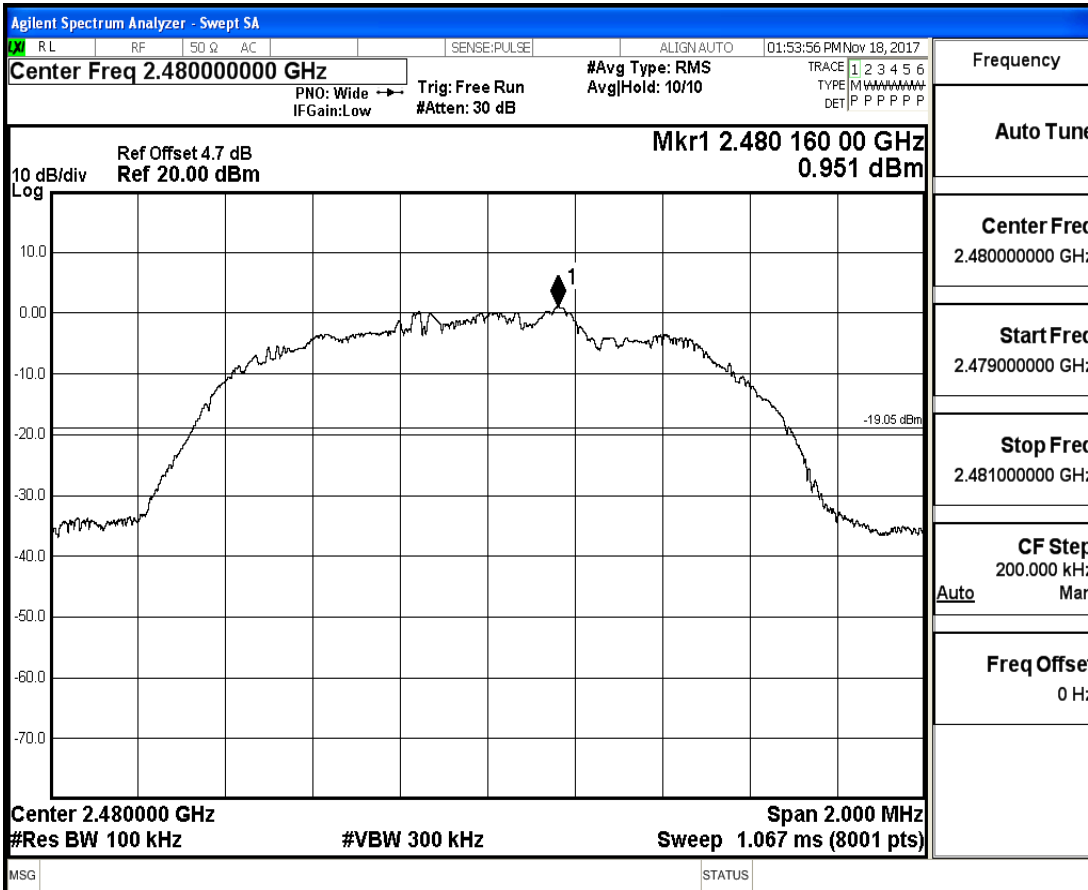
RF Conducted Spurious Emissions_3DH5_2402



RF Conducted Spurious Emissions_3DH5_2441



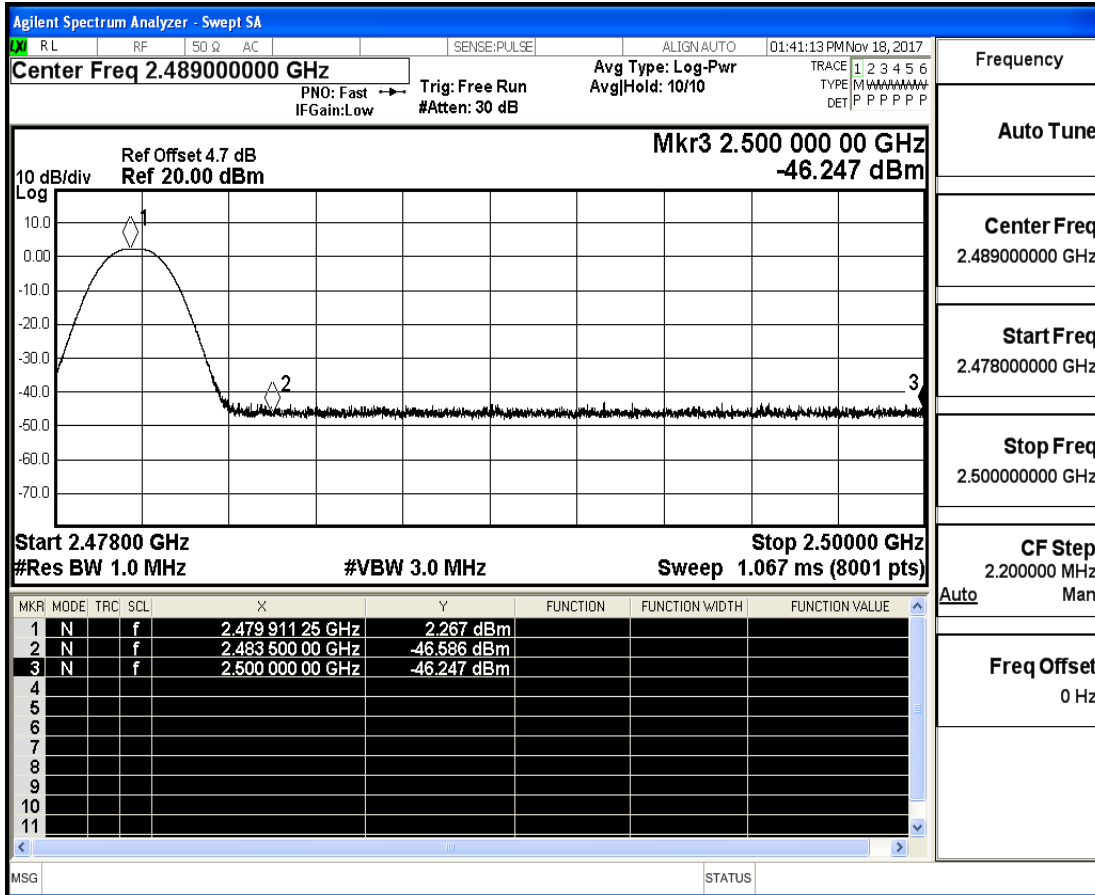
RF Conducted Spurious Emissions_3DH5_2480



9.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	-46.32	0	0	48.94	PEAK	74	PASS
DH5	On	2310.0	-57.40	0	0	37.86	AV	54	PASS
DH5	On	2390.0	-47.35	0	0	47.90	PEAK	74	PASS
DH5	On	2390.0	-57.06	0	0	38.19	AV	54	PASS
DH5	On	2483.5	-46.59	0	0	48.67	PEAK	74	PASS
DH5	On	2483.5	-56.62	0	0	38.64	AV	54	PASS
DH5	On	2500.0	-46.25	0	0	49.01	PEAK	74	PASS
DH5	On	2500.0	-56.71	0	0	38.55	AV	54	PASS
2DH5	On	2310.0	-45.53	0	0	49.73	PEAK	74	PASS
2DH5	On	2310.0	-57.32	0	0	37.94	AV	54	PASS
2DH5	On	2390.0	-47.20	0	0	48.06	PEAK	74	PASS
2DH5	On	2390.0	-57.11	0	0	38.15	AV	54	PASS
2DH5	On	2483.5	-45.87	0	0	49.39	PEAK	74	PASS
2DH5	On	2483.5	-56.51	0	0	38.75	AV	54	PASS
2DH5	On	2500.0	-46.50	0	0	48.76	PEAK	74	PASS
2DH5	On	2500.0	-56.75	0	0	38.51	AV	54	PASS
3DH5	On	2310.0	-46.27	0	0	48.98	PEAK	74	PASS
3DH5	On	2310.0	-57.41	0	0	37.84	AV	54	PASS
3DH5	On	2390.0	-45.60	0	0	49.66	PEAK	74	PASS
3DH5	On	2390.0	-57.07	0	0	38.19	AV	54	PASS
3DH5	On	2483.5	-44.34	0	0	50.92	PEAK	74	PASS
3DH5	On	2483.5	-56.41	0	0	38.85	AV	54	PASS
3DH5	On	2500.0	-46.54	0	0	48.72	PEAK	74	PASS
3DH5	On	2500.0	-56.73	0	0	38.53	AV	54	PASS

Restrict-band band-edge measurements_2480_PEAK



Restrict-band band-edge measurements_2480_AV

