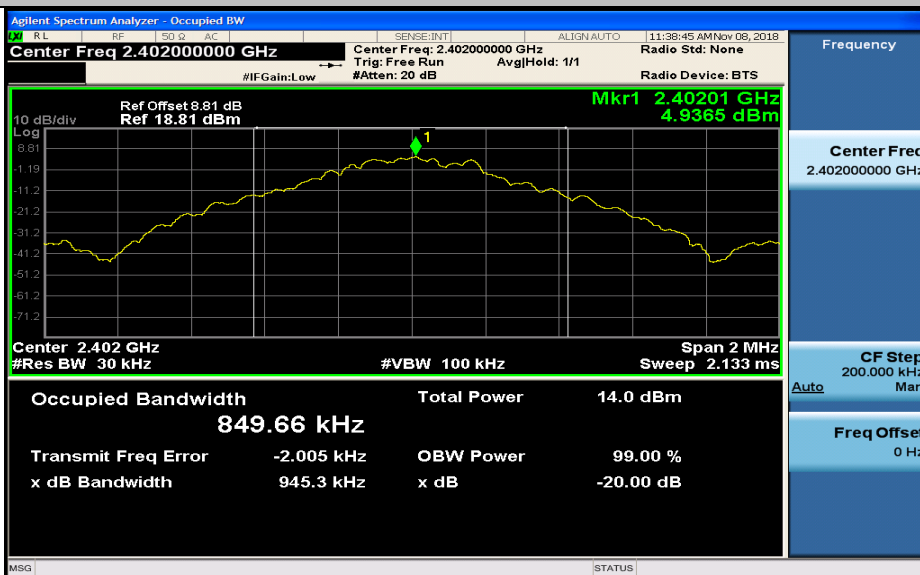


Appendix A for SHEM181000947301

1.20 dB Bandwidth

Test Mode	Test Channel	EBW[MHz]	Limit[MHz]	Verdict
DH5	2402	0.95	---	PASS
DH5	2441	0.94	---	PASS
DH5	2480	0.94	---	PASS
2DH5	2402	1.32	---	PASS
2DH5	2441	1.32	---	PASS
2DH5	2480	1.33	---	PASS
3DH5	2402	1.31	---	PASS
3DH5	2441	1.31	---	PASS
3DH5	2480	1.31	---	PASS

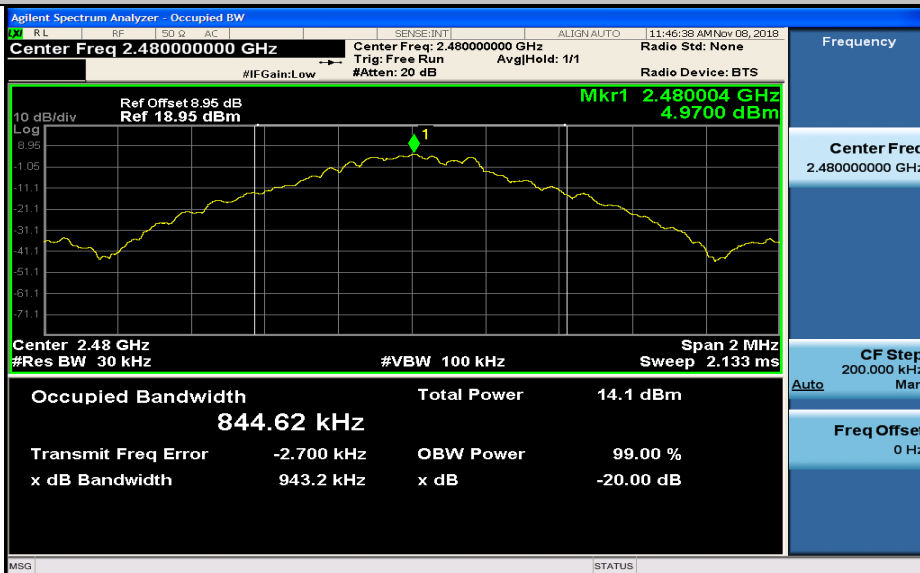
### 20 dB Bandwidth\_DH5\_2402



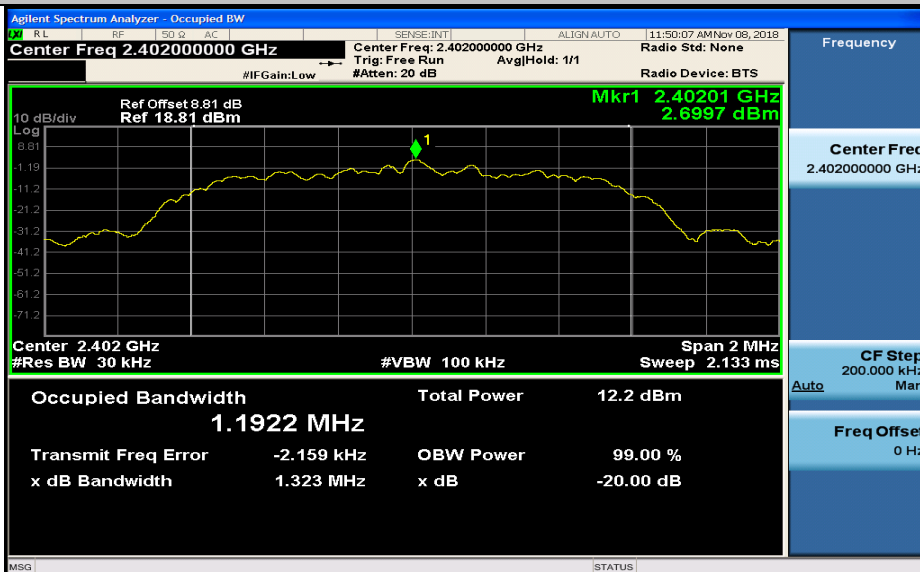
### 20 dB Bandwidth\_DH5\_2441



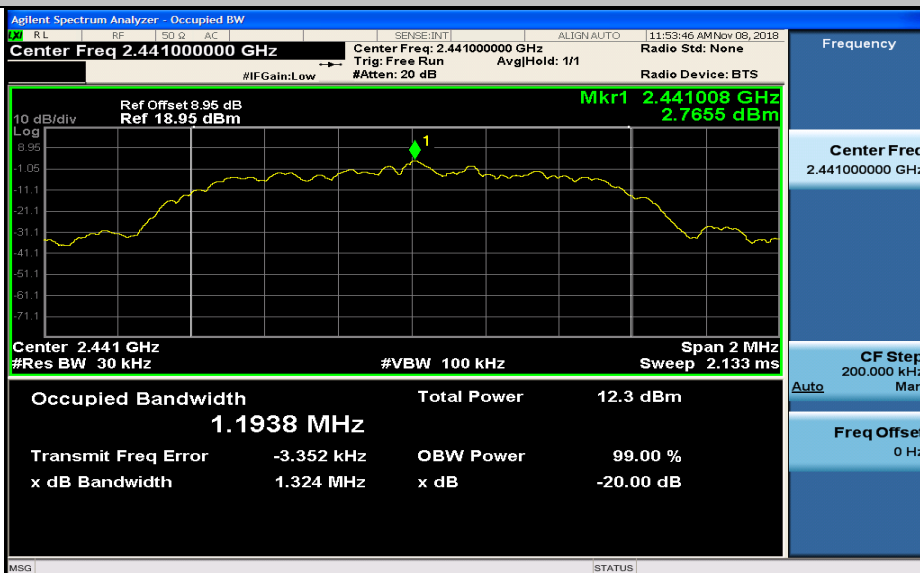
### 20 dB Bandwidth\_DH5\_2480



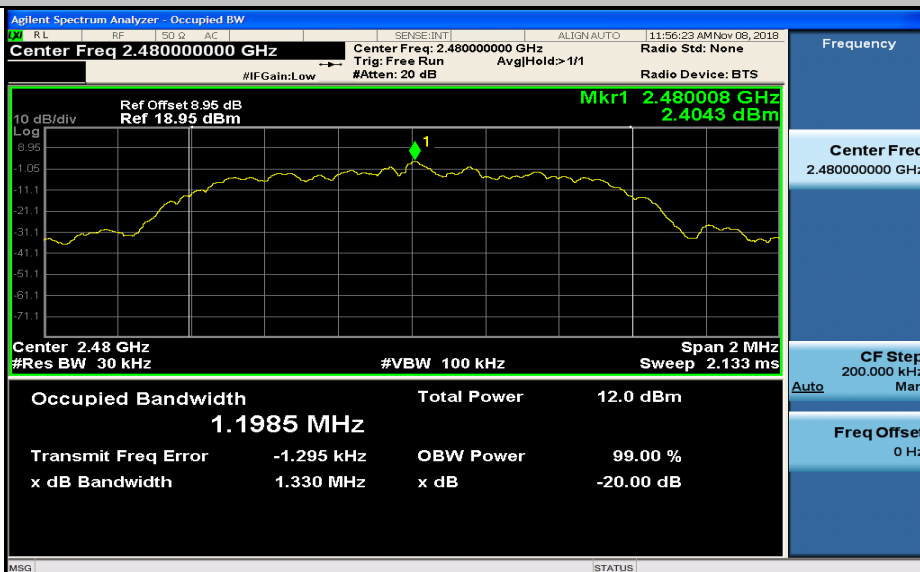
## 20 dB Bandwidth\_2DH5\_2402



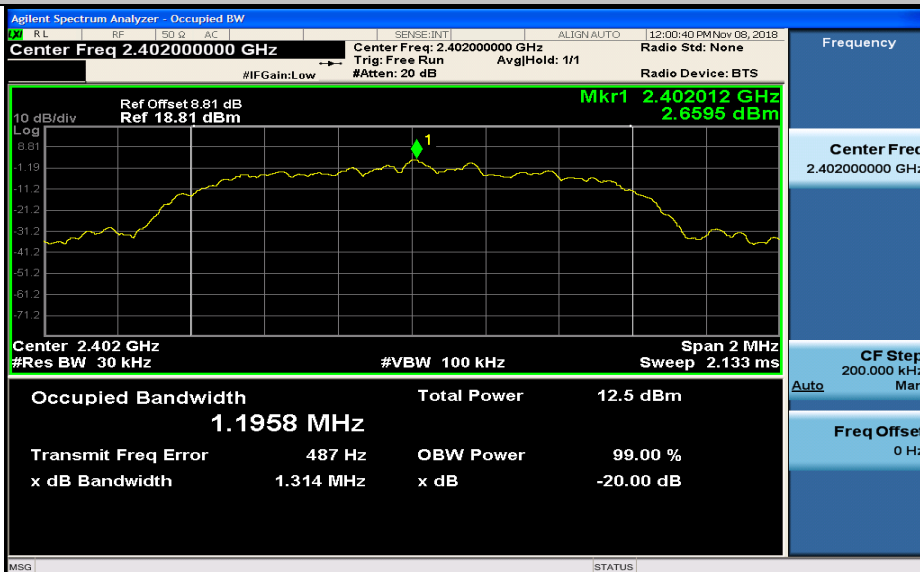
## 20 dB Bandwidth\_2DH5\_2441



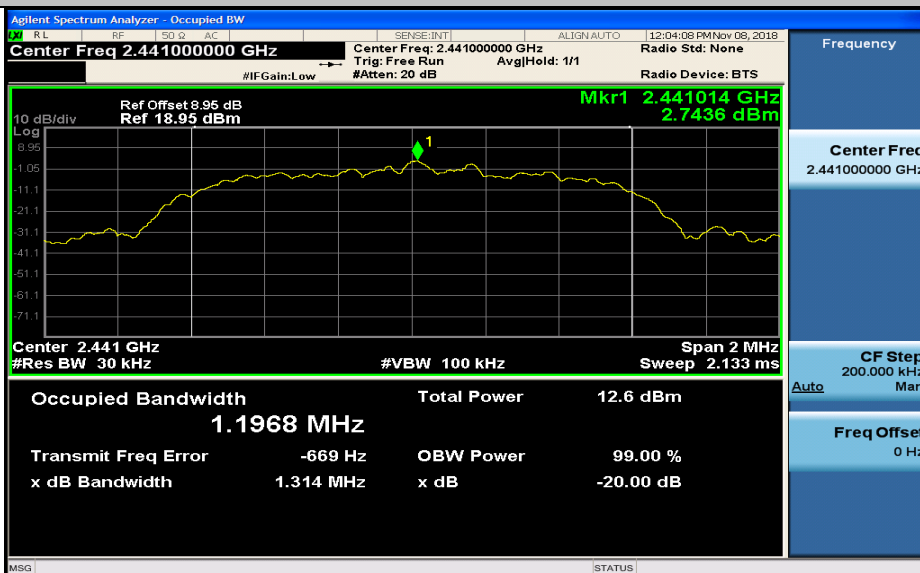
## 20 dB Bandwidth\_2DH5\_2480



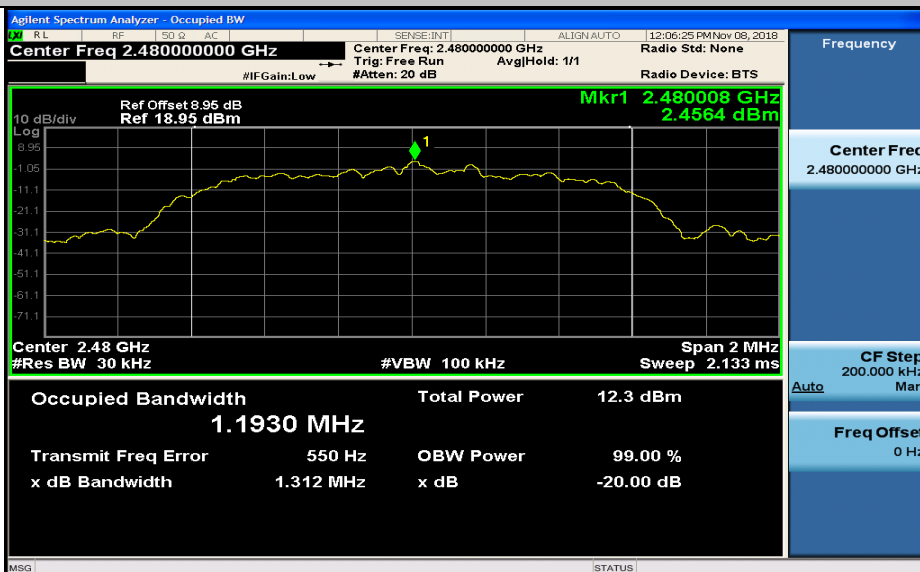
## 20 dB Bandwidth\_3DH5\_2402



## 20 dB Bandwidth\_3DH5\_2441



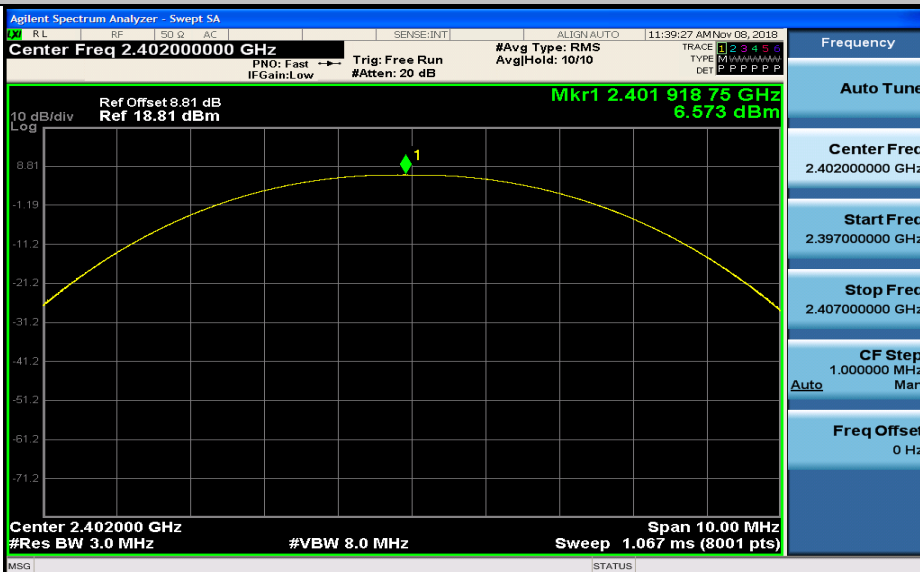
## 20 dB Bandwidth\_3DH5\_2480



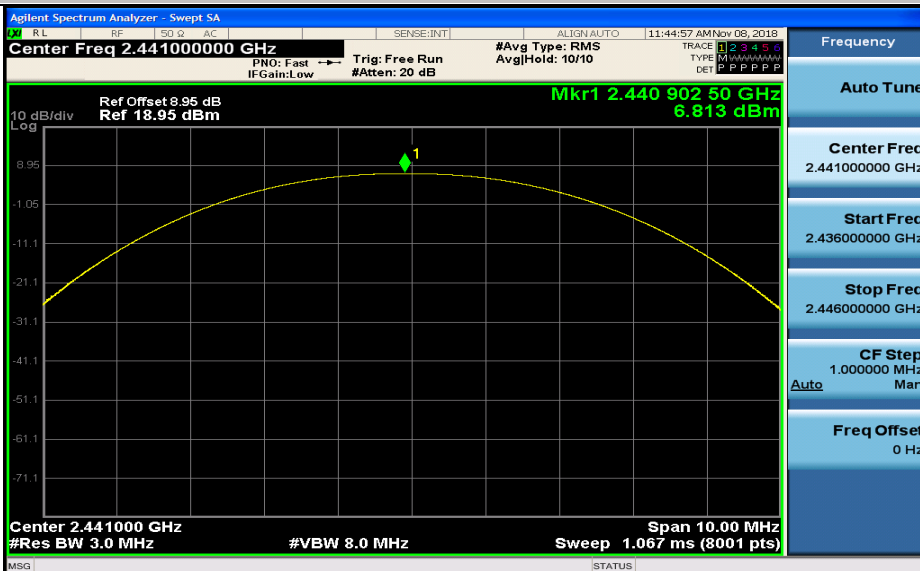
**2. Conducted Peak Output Power**

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
DH5	2402	6.57	20.96	PASS
DH5	2441	6.81	20.96	PASS
DH5	2480	6.63	20.96	PASS
2DH5	2402	6.61	20.96	PASS
2DH5	2441	6.93	20.96	PASS
2DH5	2480	6.74	20.96	PASS
3DH5	2402	7.46	20.96	PASS
3DH5	2441	7.79	20.96	PASS
3DH5	2480	7.61	20.96	PASS

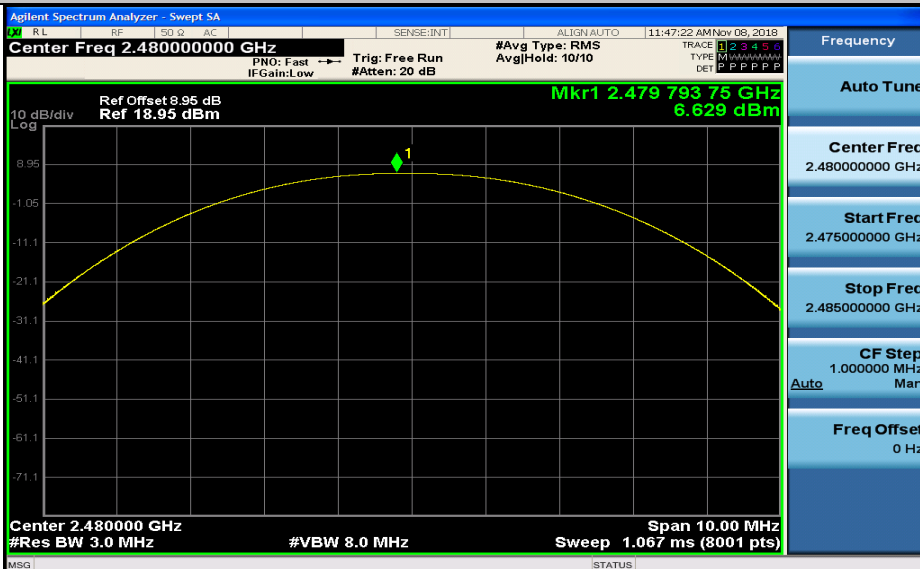
### Conducted Peak Output Power\_DH5\_2402



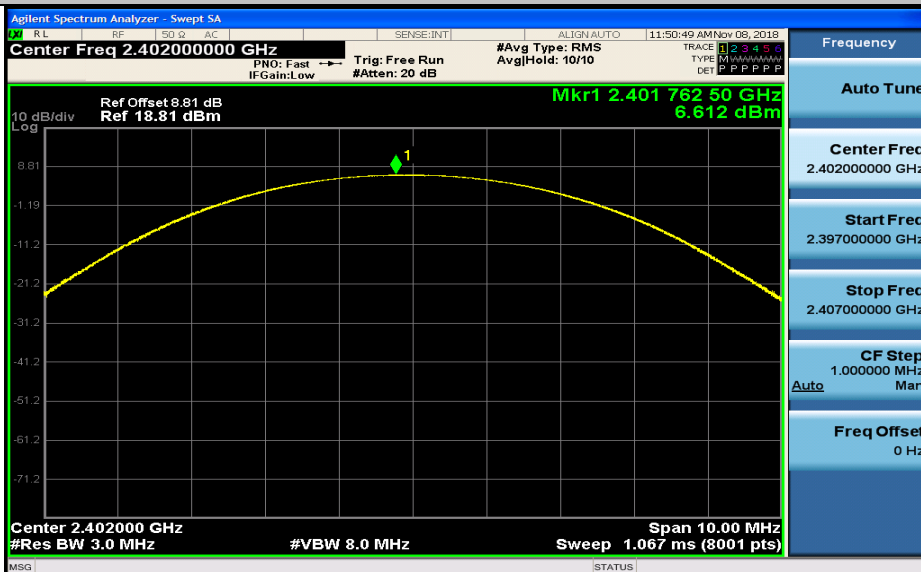
### Conducted Peak Output Power\_DH5\_2441



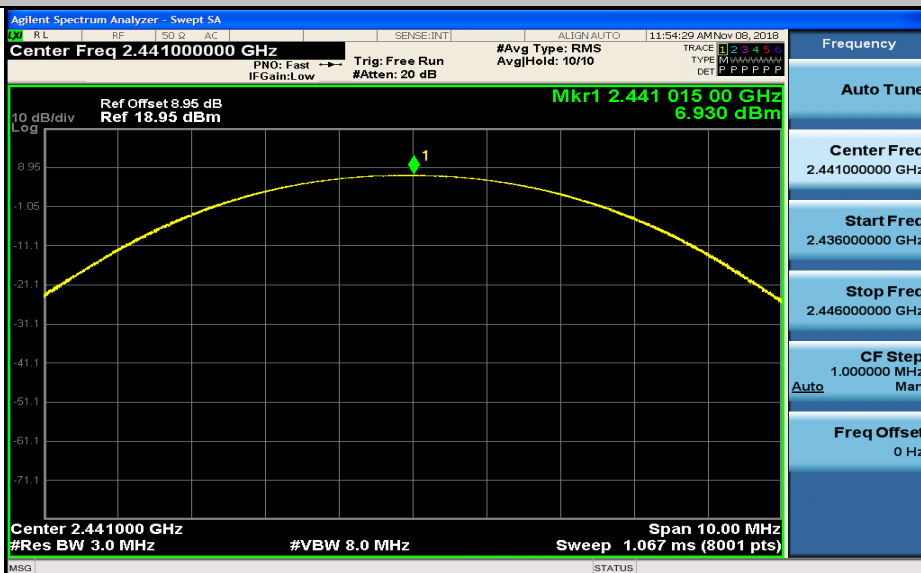
### Conducted Peak Output Power\_DH5\_2480



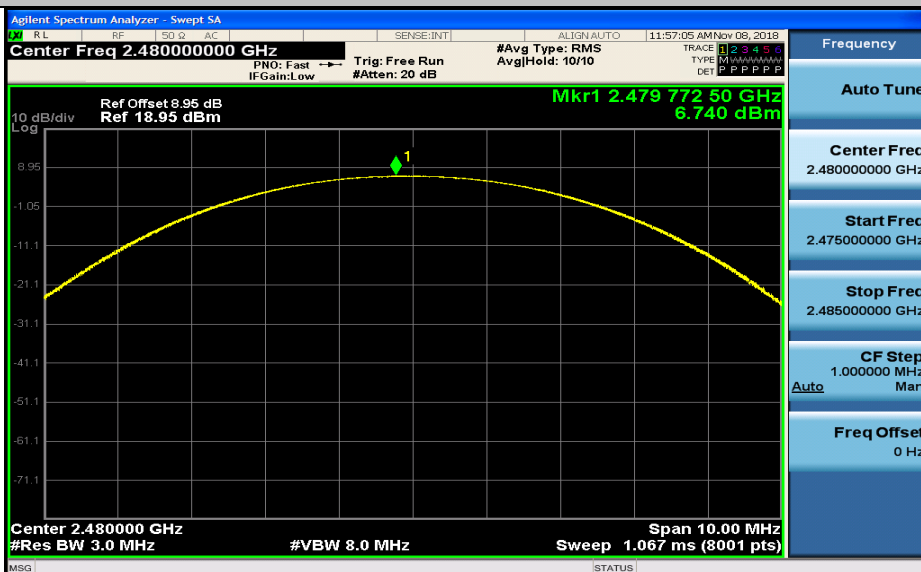
## Conducted Peak Output Power\_2DH5\_2402



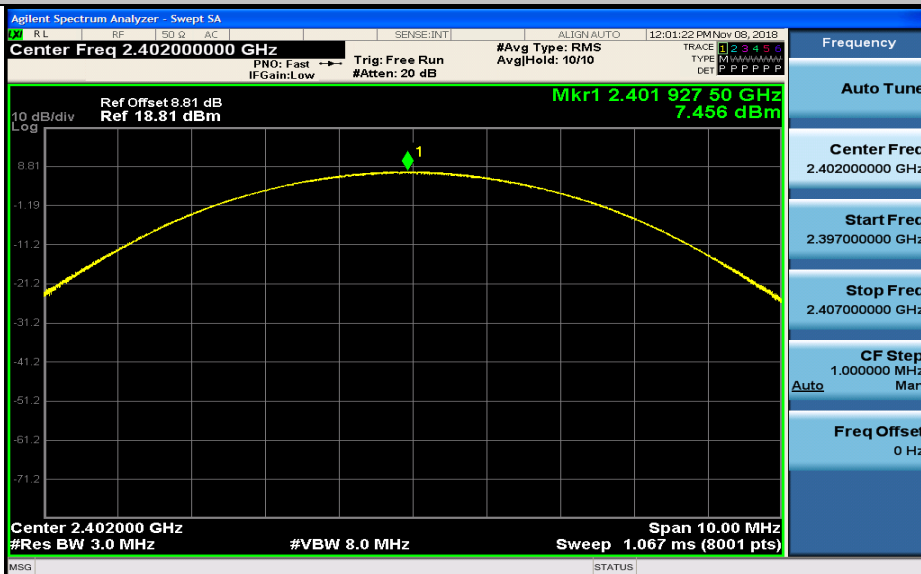
## Conducted Peak Output Power\_2DH5\_2441



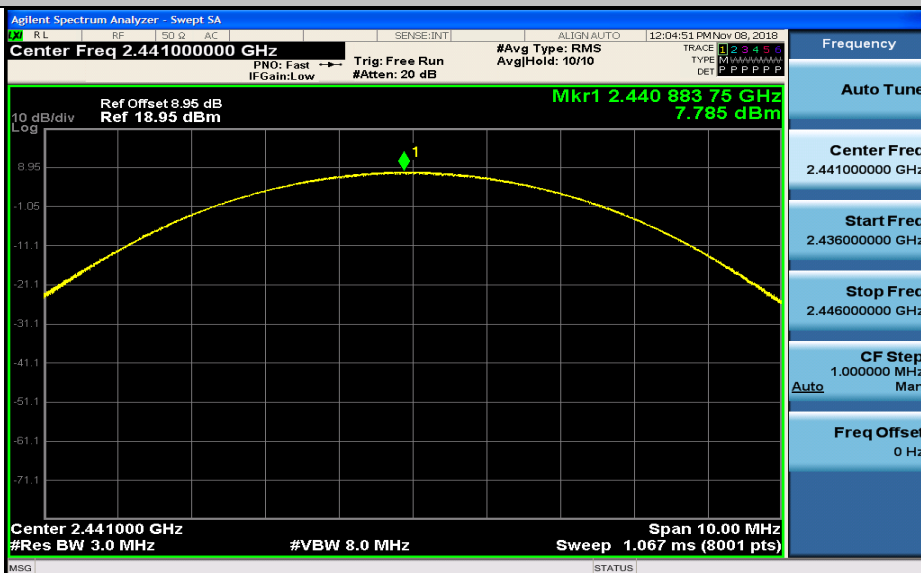
## Conducted Peak Output Power\_2DH5\_2480



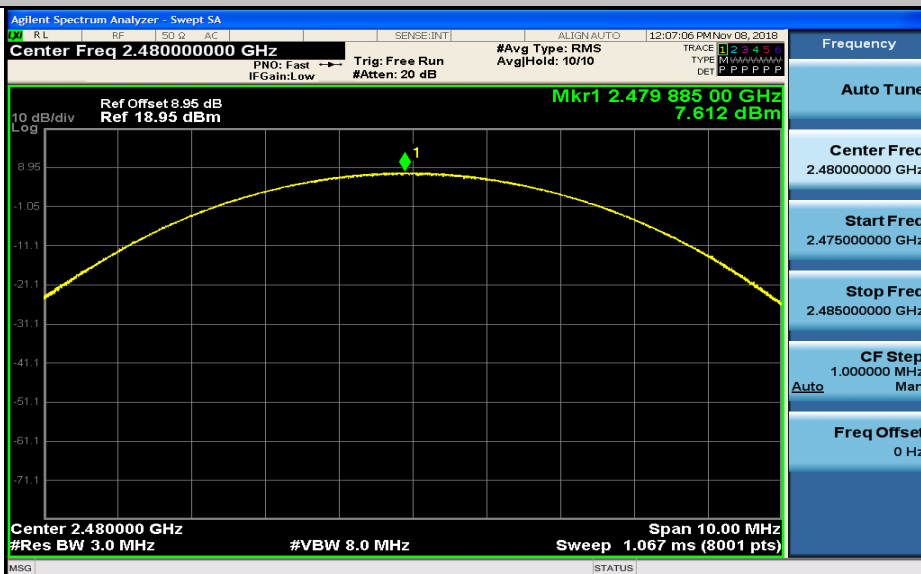
## Conducted Peak Output Power\_3DH5\_2402



## Conducted Peak Output Power\_3DH5\_2441



## Conducted Peak Output Power\_3DH5\_2480





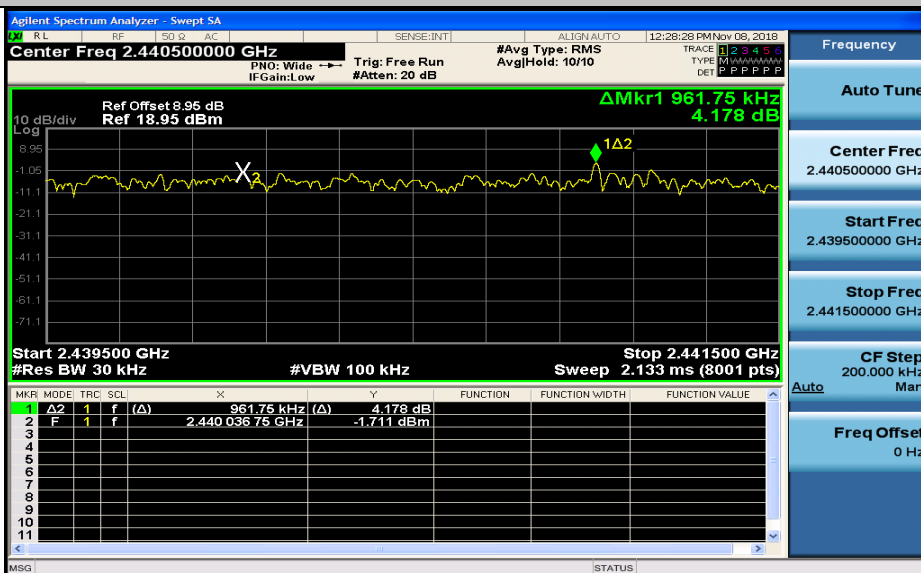
3.Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	2441	1.01	0.6268	PASS
2DH5	2441	0.96	0.8827	PASS
3DH5	2441	1.05	0.876	PASS

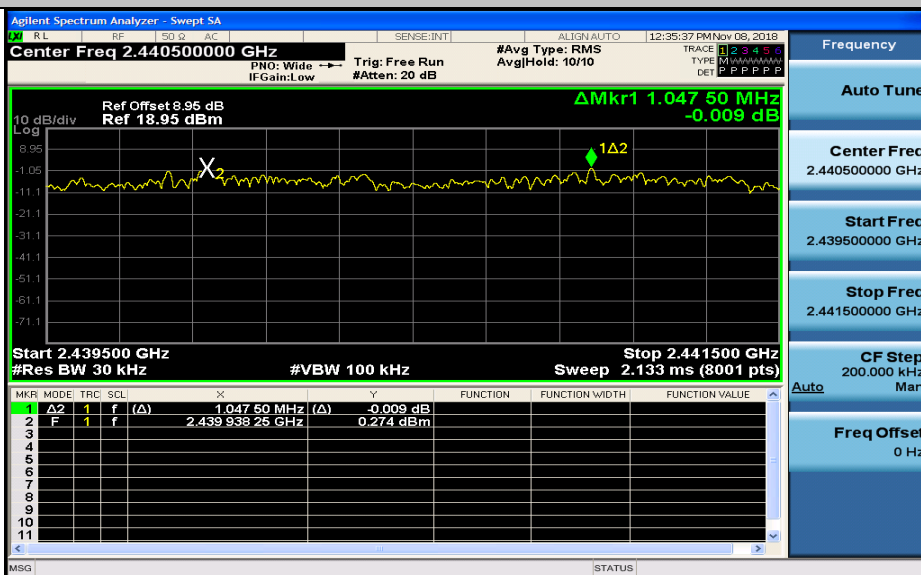
## Carrier Frequency Separation\_DH5\_2441



## Carrier Frequency Separation\_2DH5\_2441



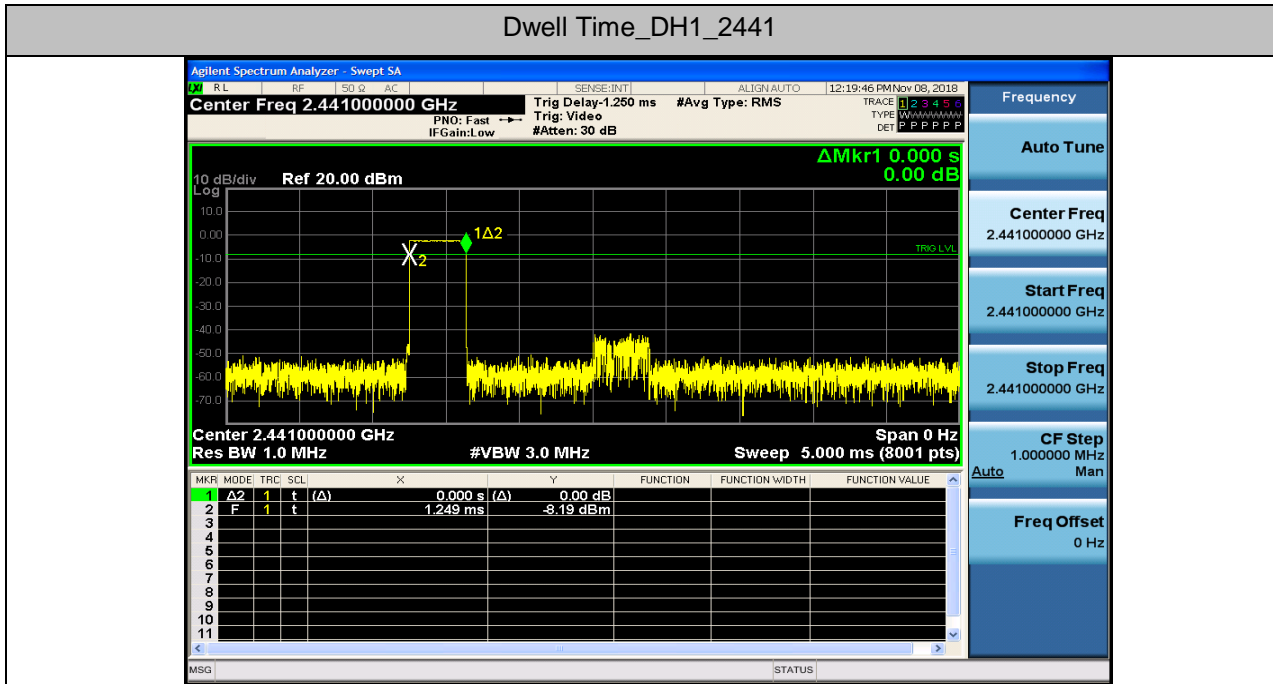
## Carrier Frequency Separation\_3DH5\_2441



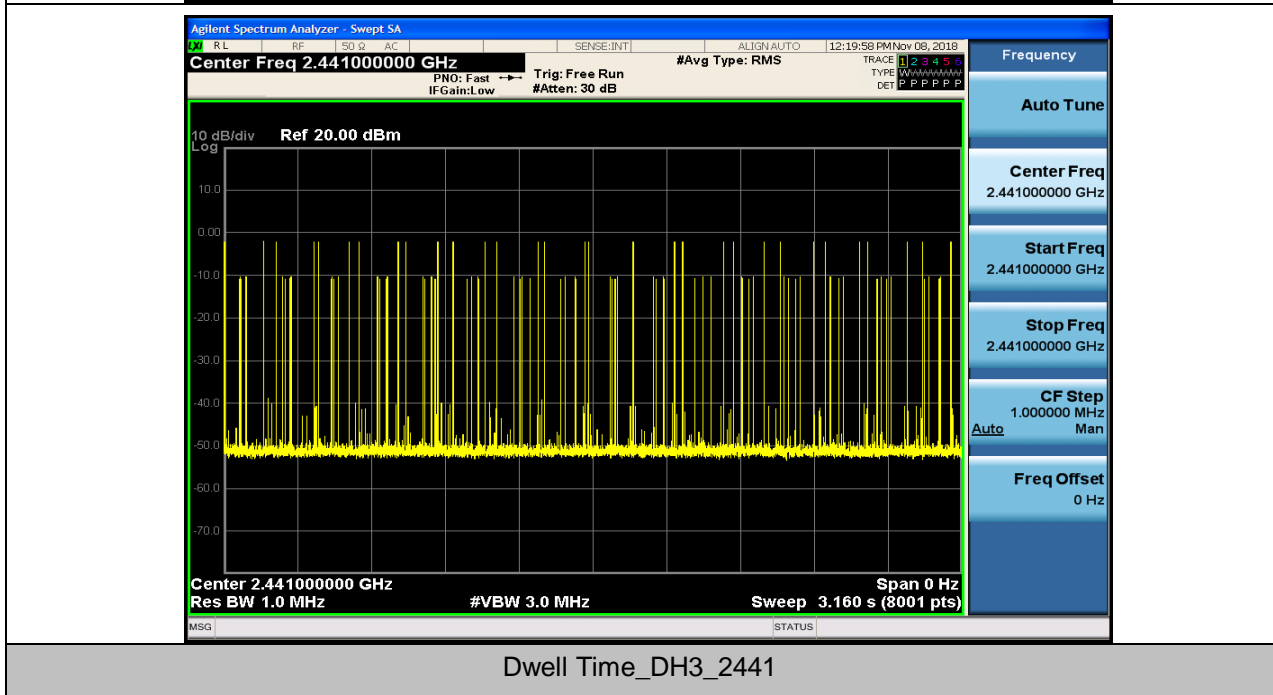
**4.Dwell Time**

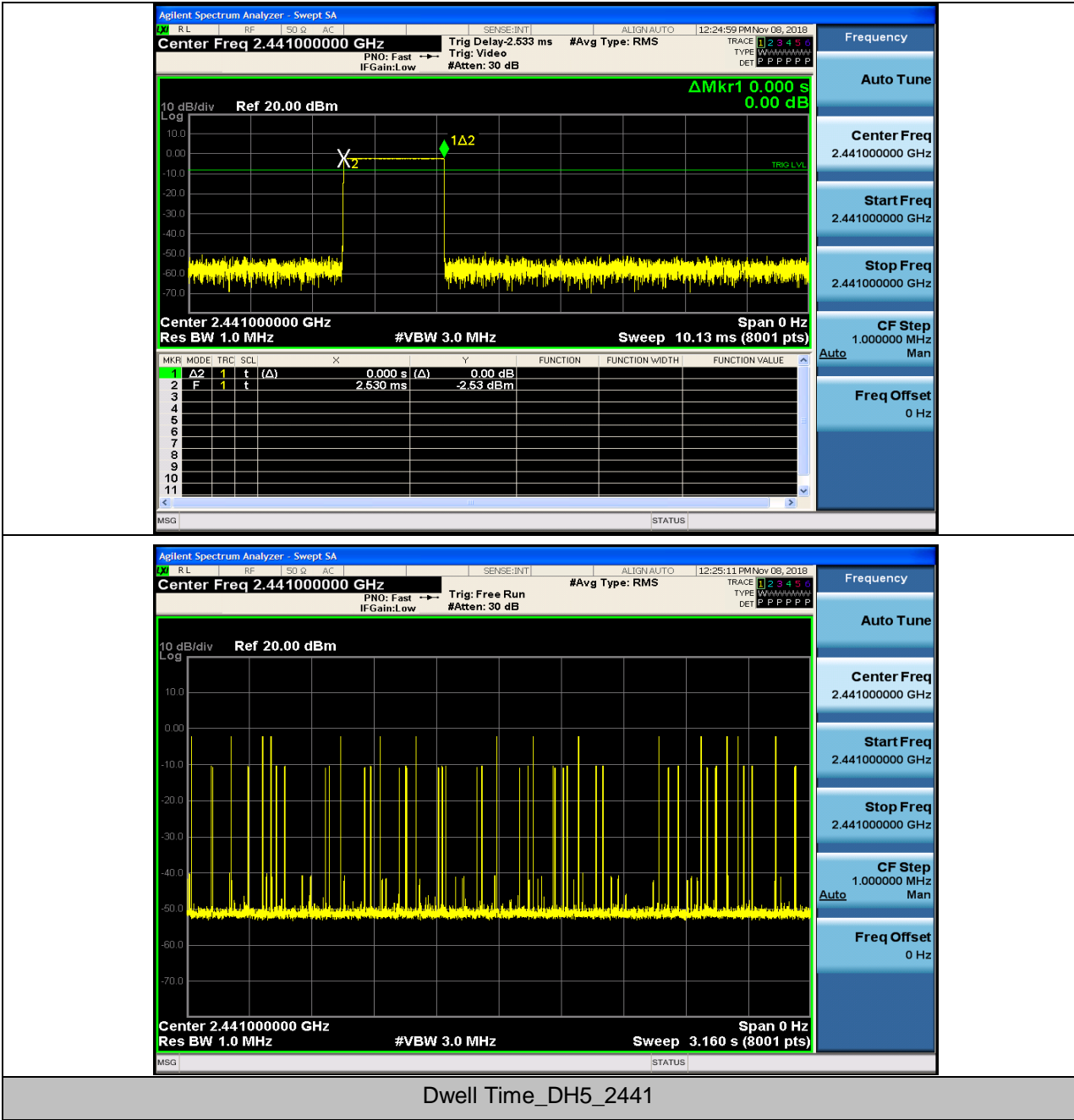
Test Mode	Test Channel	Burst Width[ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit[s]	Verdict
DH1	2441	0.39	310	0.12	0.4	PASS
DH3	2441	1.64	150	0.25	0.4	PASS
DH5	2441	2.89	100	0.29	0.4	PASS
2DH1	2441	0.39	310	0.12	0.4	PASS
2DH3	2441	1.64	150	0.25	0.4	PASS
2DH5	2441	2.89	130	0.38	0.4	PASS
3DH1	2441	0.39	320	0.12	0.4	PASS
3DH3	2441	1.64	180	0.30	0.4	PASS
3DH5	2441	2.89	130	0.38	0.4	PASS

Dwell Time\_DH1\_2441



Dwell Time\_DH3\_2441





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig: Free Run

PNO: Fast IFGain: Low #Atten: 30 dB

12:25:11 PM Nov 09, 2018

TRACE 1 2 3 4 5 6

TYPE W W W W W W W W

DET P P P P P P

10 dB/div Ref 20.00 dBm

Log

Center 2.441000000 GHz Span 0 Hz

Res BW 1.0 MHz #VBW 3.0 MHz Sweep 3.160 s (8001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq 2.441000000 GHz

Start Freq 2.441000000 GHz

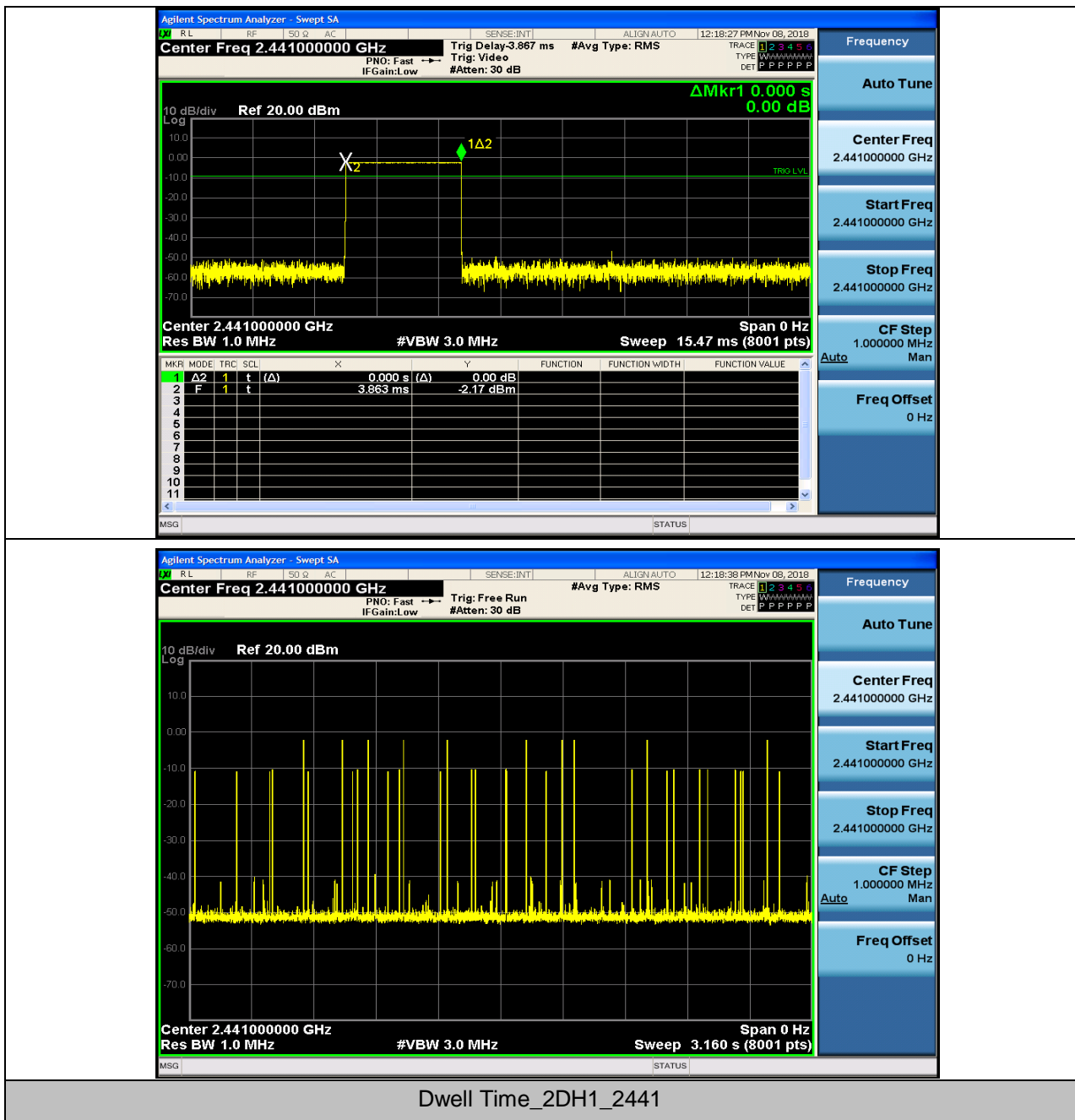
Stop Freq 2.441000000 GHz

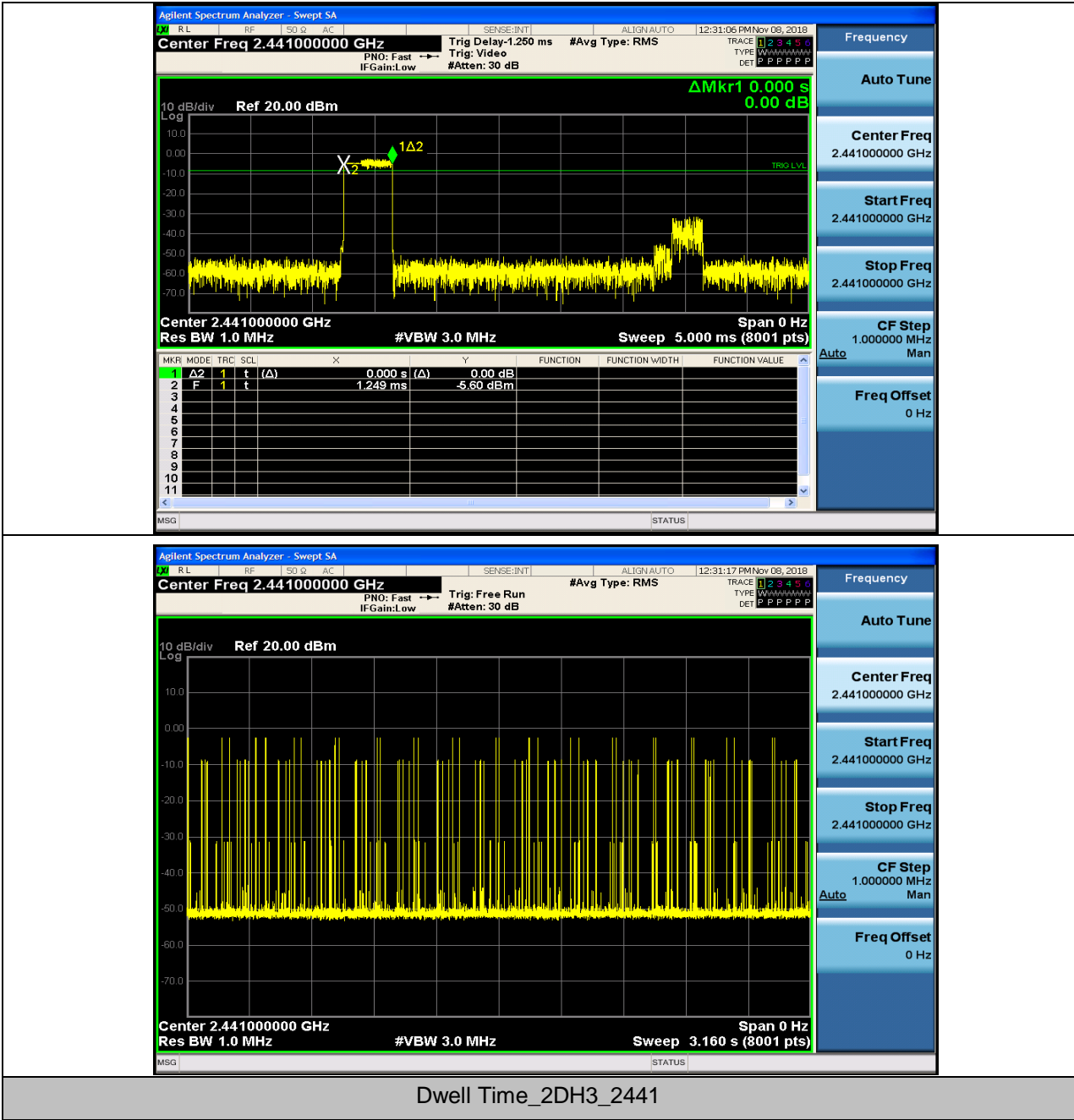
CF Step 1.000000 MHz

Auto Man

Freq Offset 0 Hz

Dwell Time\_DH5\_2441





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig: Free Run

IF Gain: Low #Atten: 30 dB

Ref 20.00 dBm

10 dB/div

Log

Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Span 0 Hz

Sweep 3.160 s (8001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq  
2.441000000 GHz

Start Freq  
2.441000000 GHz

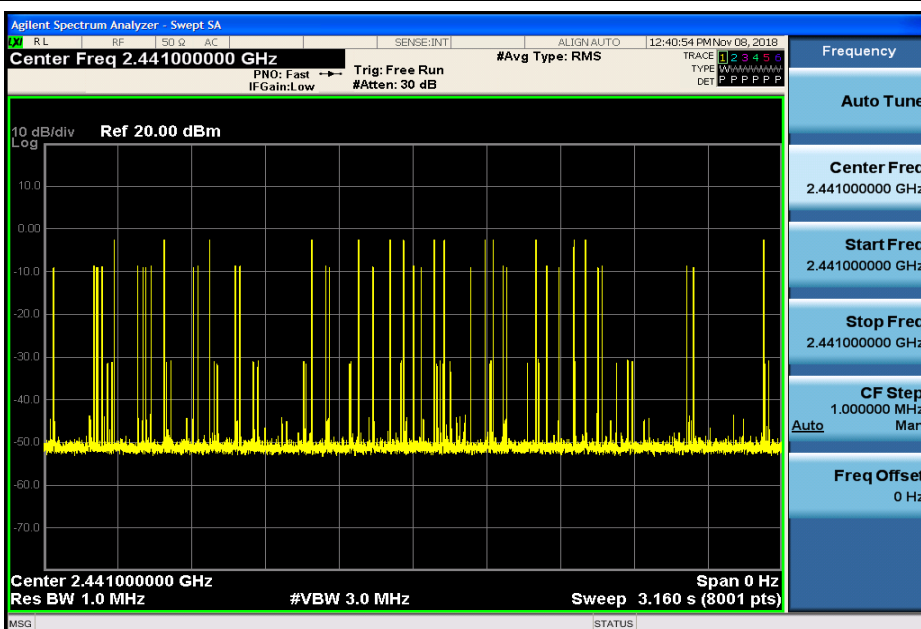
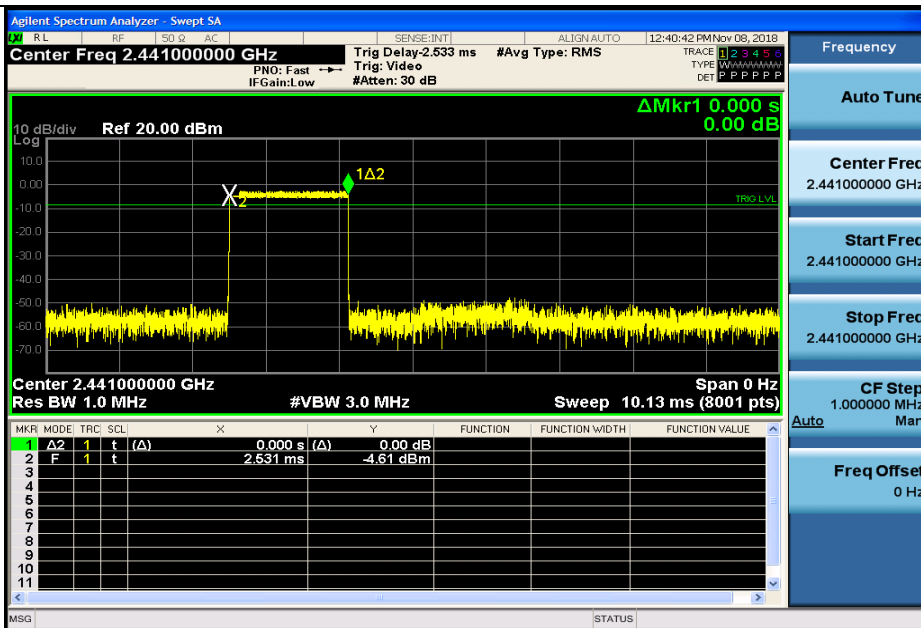
Stop Freq  
2.441000000 GHz

CF Step  
1.000000 MHz

Auto

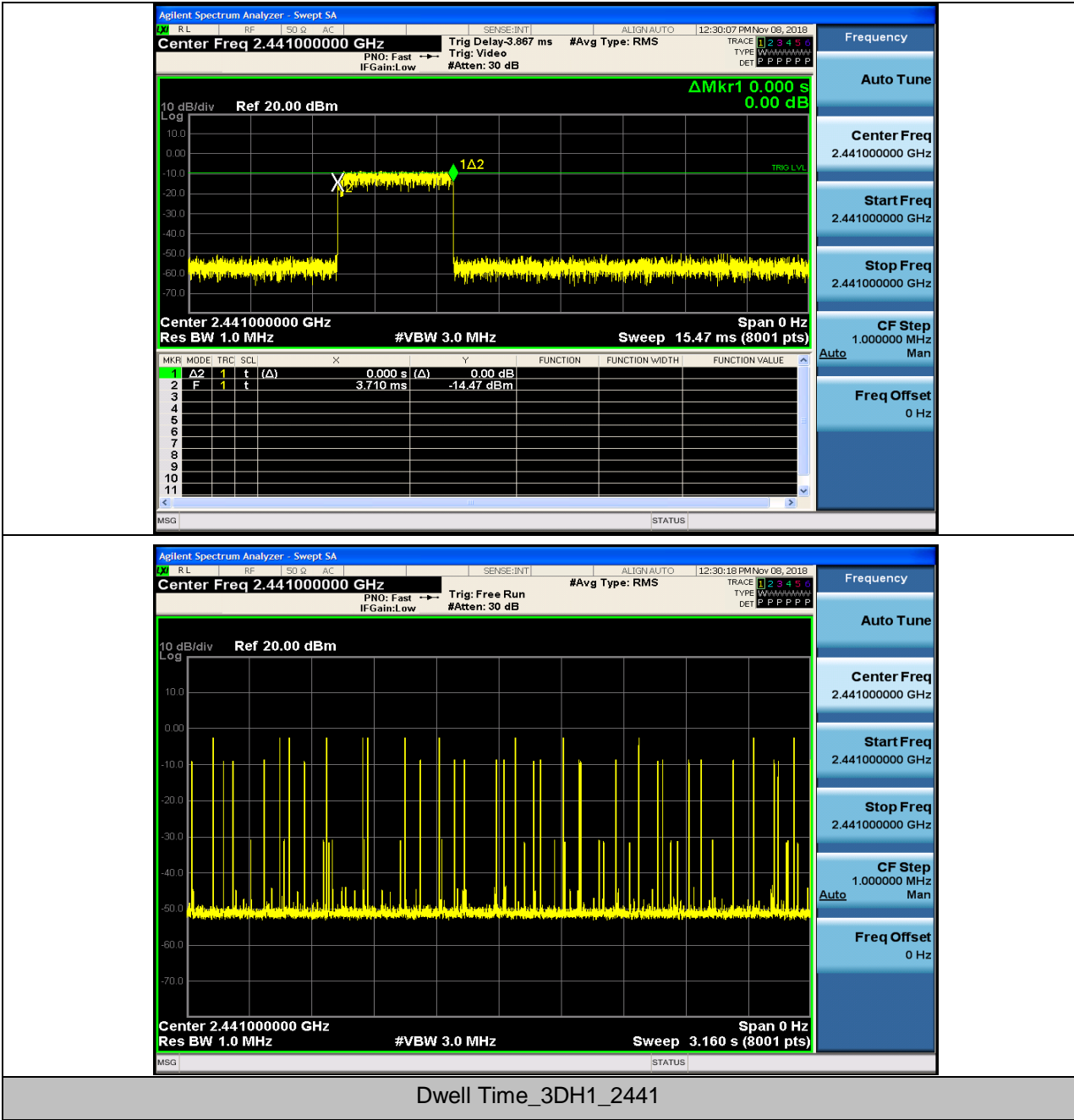
Freq Offset  
0 Hz

Dwell Time\_2DH3\_2441

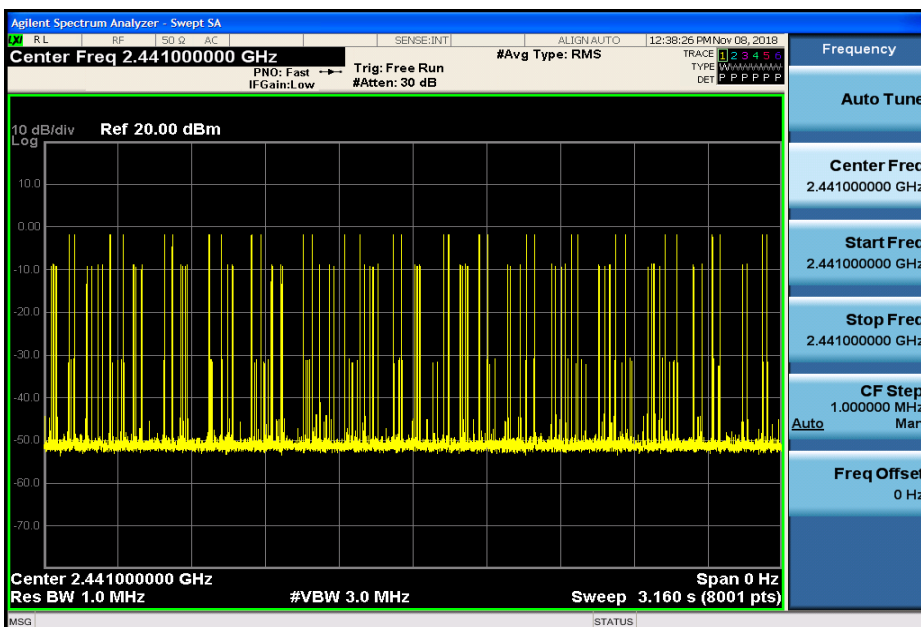
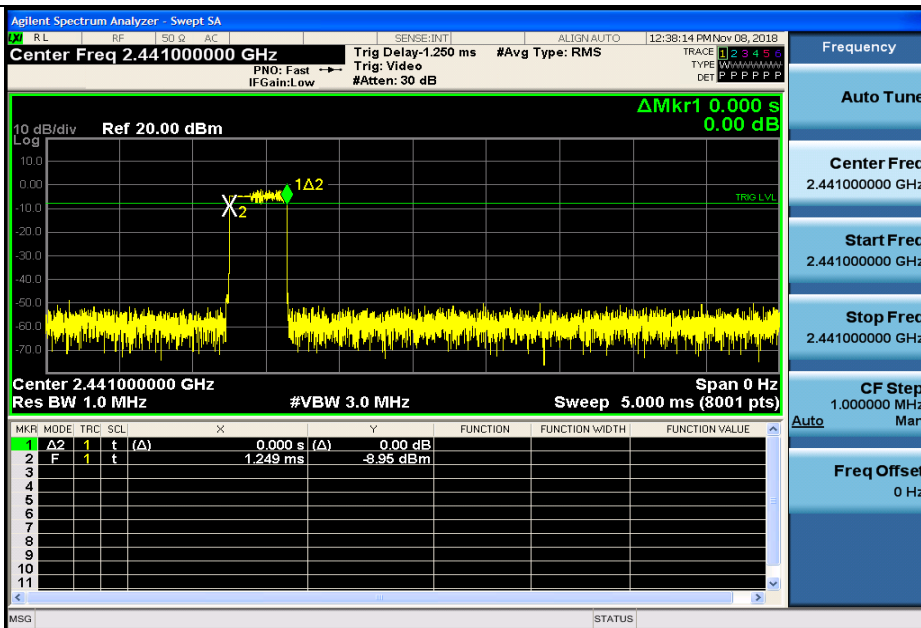


Dwell Time\_2DH5\_2441

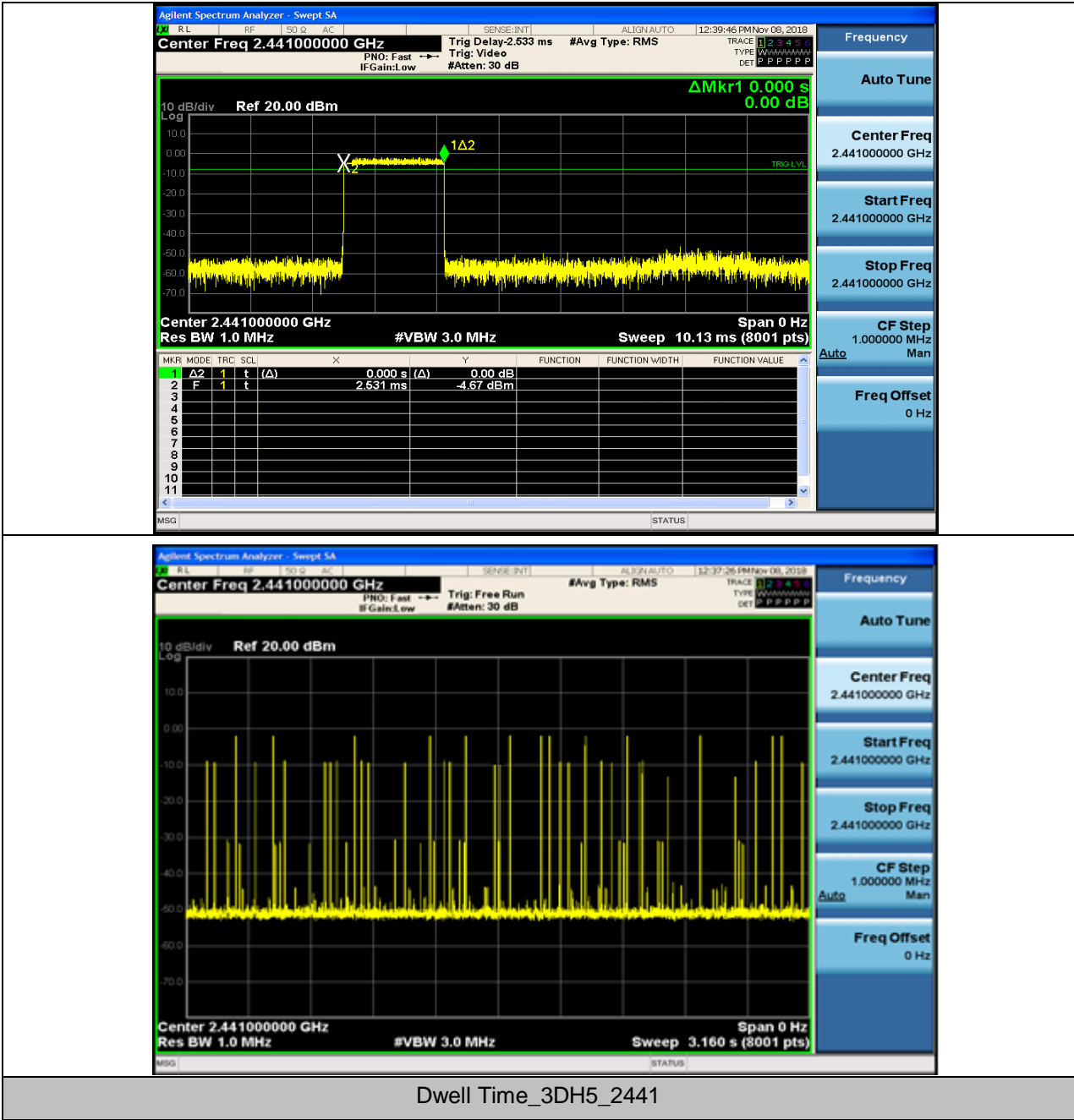




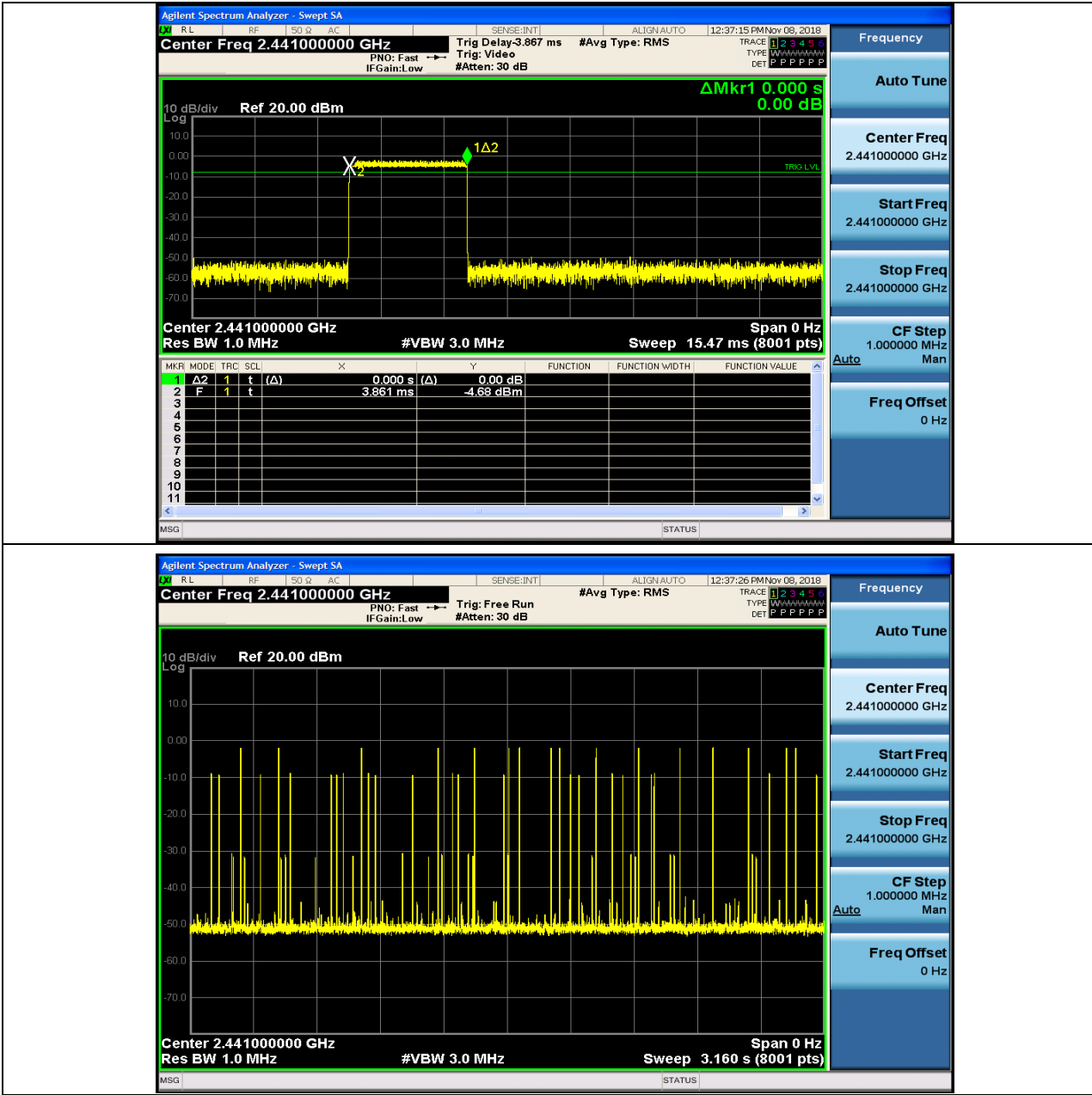
Dwell Time\_3DH1\_2441



Dwell Time\_3DH3\_2441



Dwell Time\_3DH5\_2441



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig: Free Run

PNO: Fast IFGain: Low #Atten: 30 dB

12:37:26 PM Nov 09, 2018

TRACE 1 2 3 4 5 6

TYPE W W W W W W W W

DET P P P P P P

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

10 dB/div Ref 20.00 dBm

Log

Center 2.441000000 GHz Span 0 Hz

Res BW 1.0 MHz #VBW 3.0 MHz Sweep 3.160 s (8001 pts)

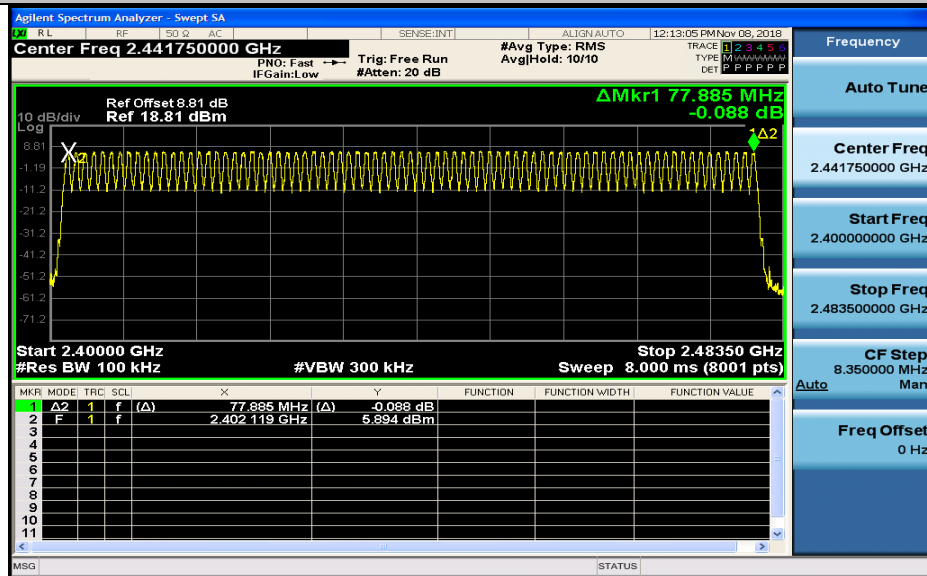
MSG STATUS



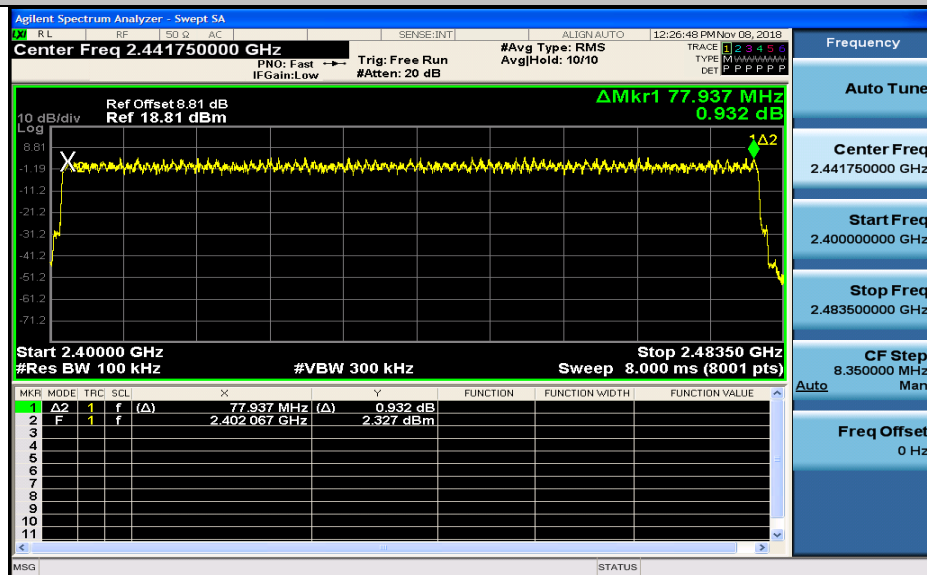
5.Hopping Channel Number

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

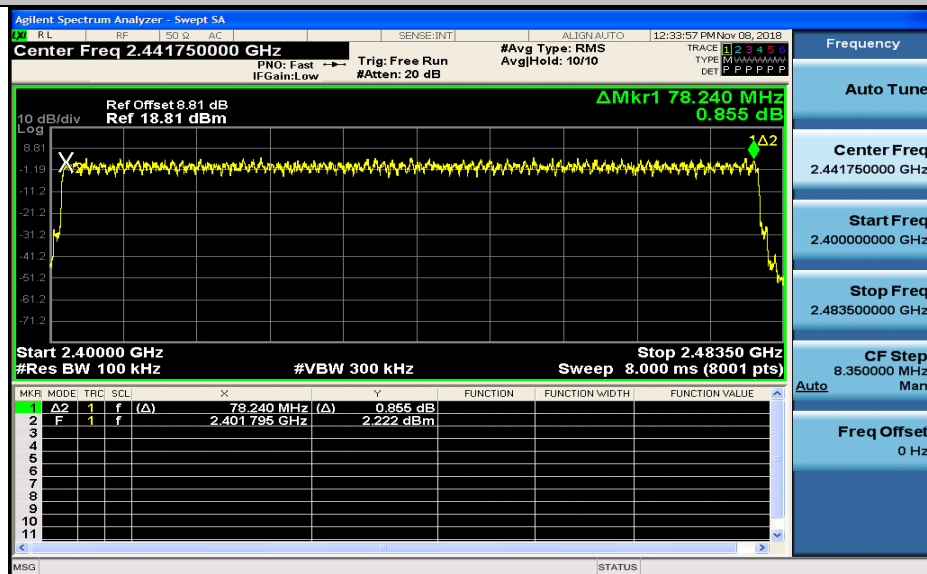
## Hopping Channel Number\_DH5



## Hopping Channel Number\_2DH5



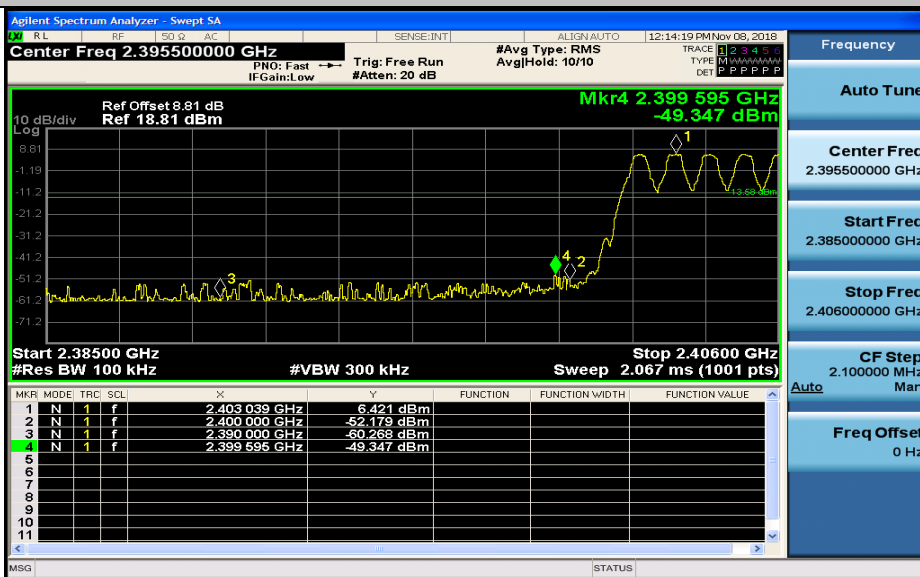
## Hopping Channel Number\_3DH5



**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	6.42	-49.35	-13.58	PASS
DH5	2402	Off	6.59	-49.23	-13.41	PASS
DH5	2480	On	6.70	-49.72	-13.33	PASS
DH5	2480	Off	6.69	-50.03	-13.31	PASS
2DH5	2402	On	4.17	-42.09	-15.83	PASS
2DH5	2402	Off	4.27	-41.75	-15.73	PASS
2DH5	2480	On	4.17	-52.84	-15.83	PASS
2DH5	2480	Off	4.06	-49.55	-15.94	PASS
3DH5	2402	On	4.27	-41.85	-15.73	PASS
3DH5	2402	Off	4.28	-40.12	-15.73	PASS
3DH5	2480	On	4.16	-51.02	-15.84	PASS
3DH5	2480	Off	4.05	-49.29	-15.95	PASS

Band-edge for RF Conducted Emissions\_DH5\_2402\_Hopping On

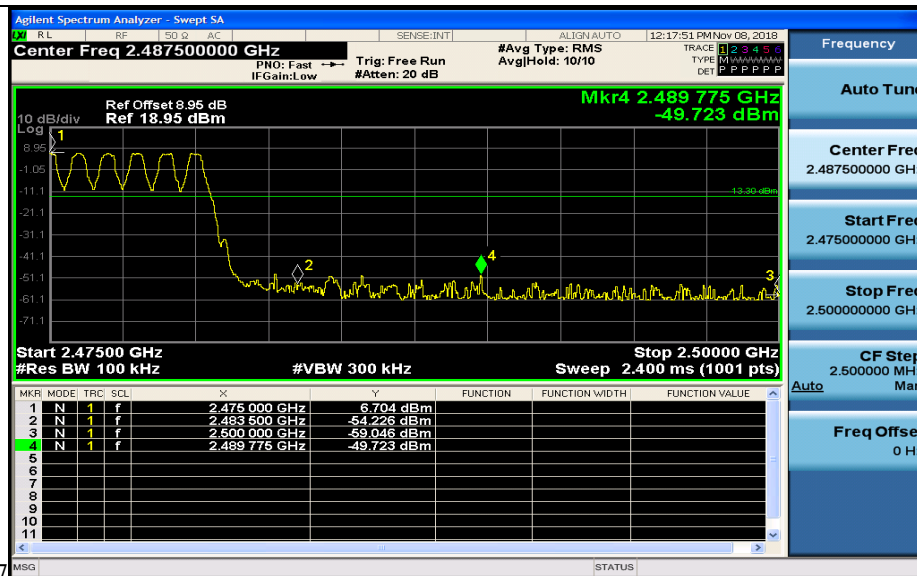


Band-edge for RF Conducted Emissions\_DH5\_2402\_Hopping Off

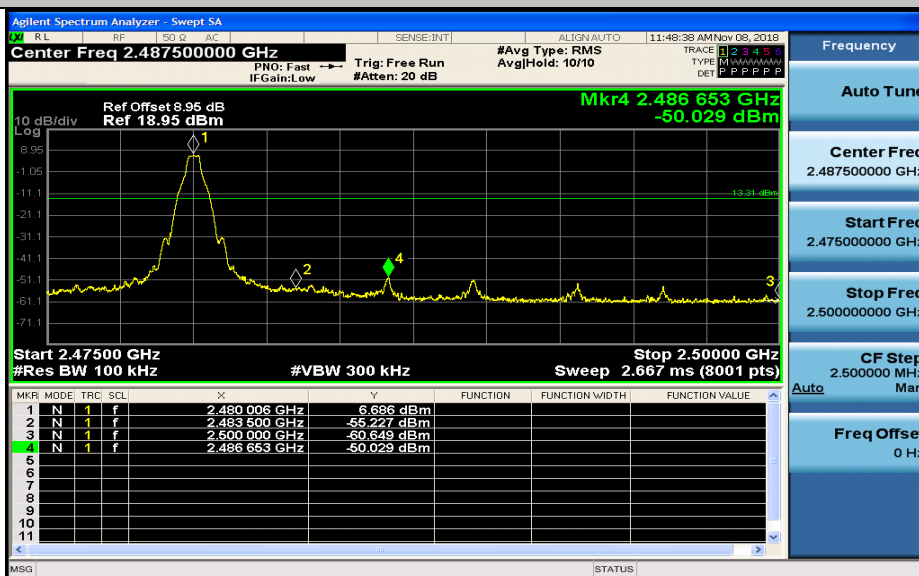


Band-edge for RF Conducted Emissions\_DH5\_2480\_Hopping On

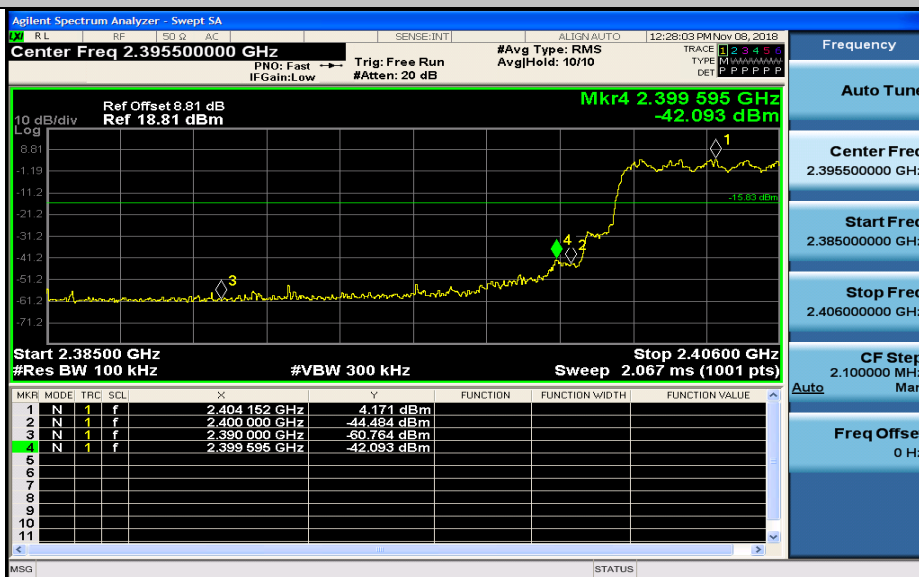




Band-edge for RF Conducted Emissions\_DH5\_2480\_Hopping Off



Band-edge for RF Conducted Emissions\_2DH5\_2402\_Hopping On



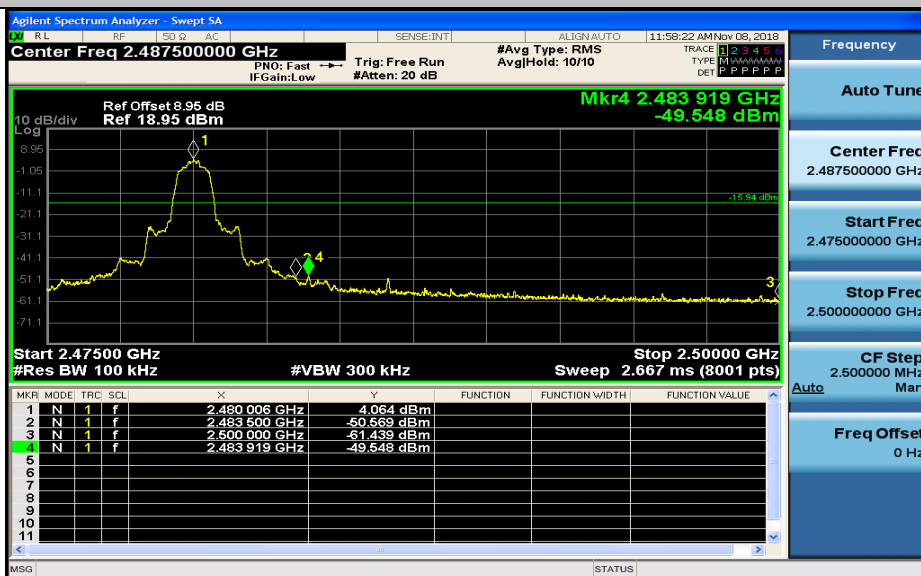
Band-edge for RF Conducted Emissions\_2DH5\_2402\_Hopping Off



Band-edge for RF Conducted Emissions\_2DH5\_2480\_Hopping On



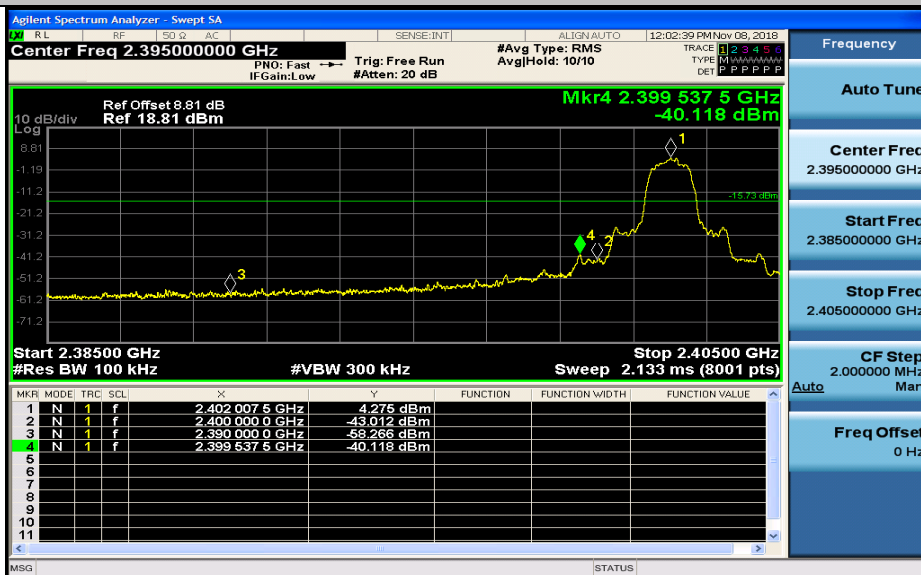
Band-edge for RF Conducted Emissions\_2DH5\_2480\_Hopping Off



Band-edge for RF Conducted Emissions\_3DH5\_2402\_Hopping On



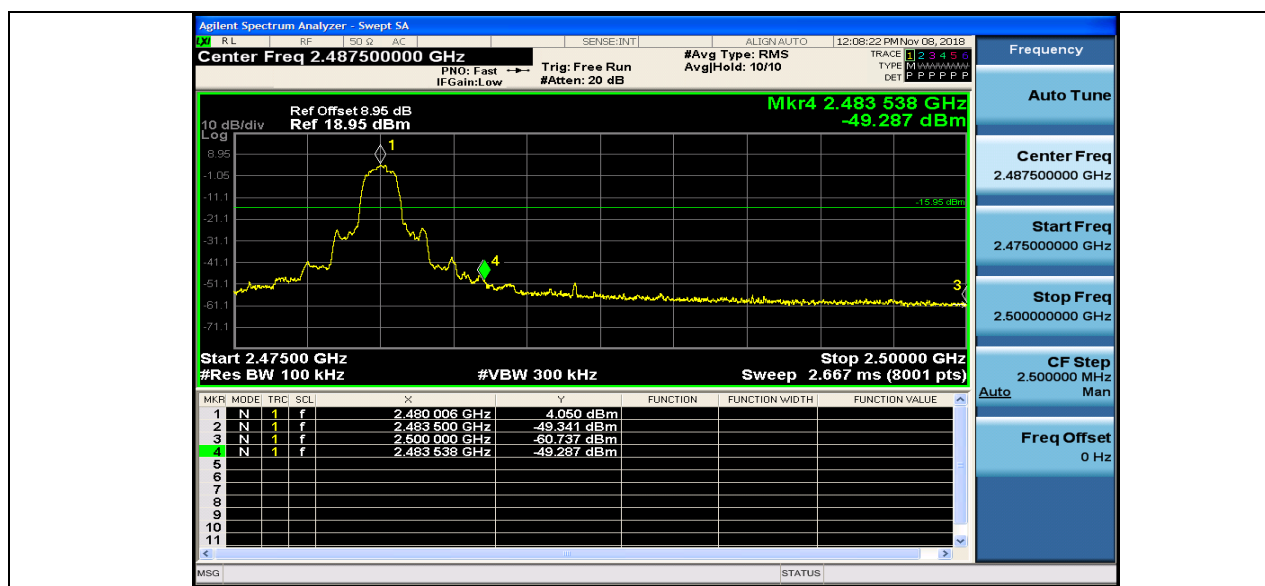
Band-edge for RF Conducted Emissions\_3DH5\_2402\_Hopping Off



Band-edge for RF Conducted Emissions\_3DH5\_2480\_Hopping On



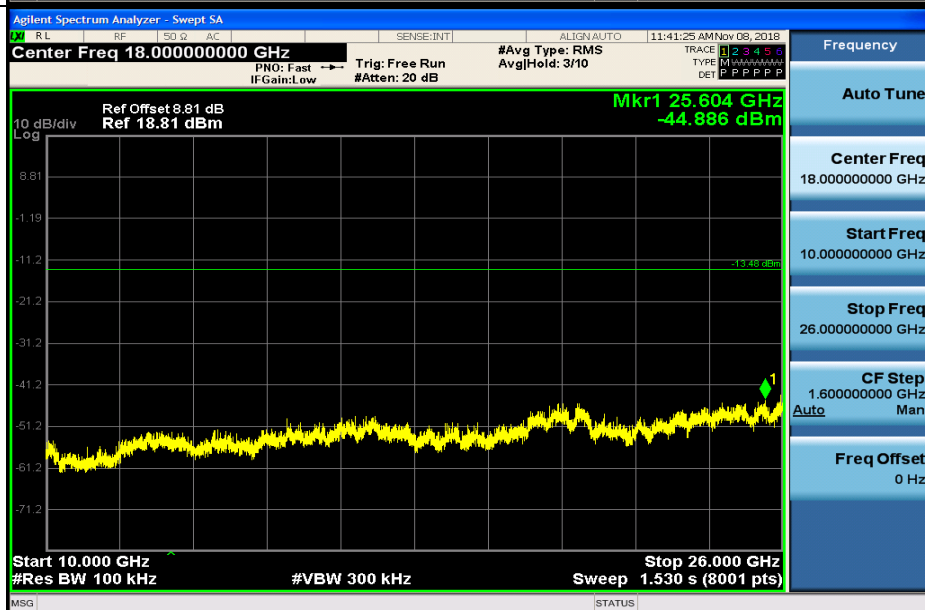
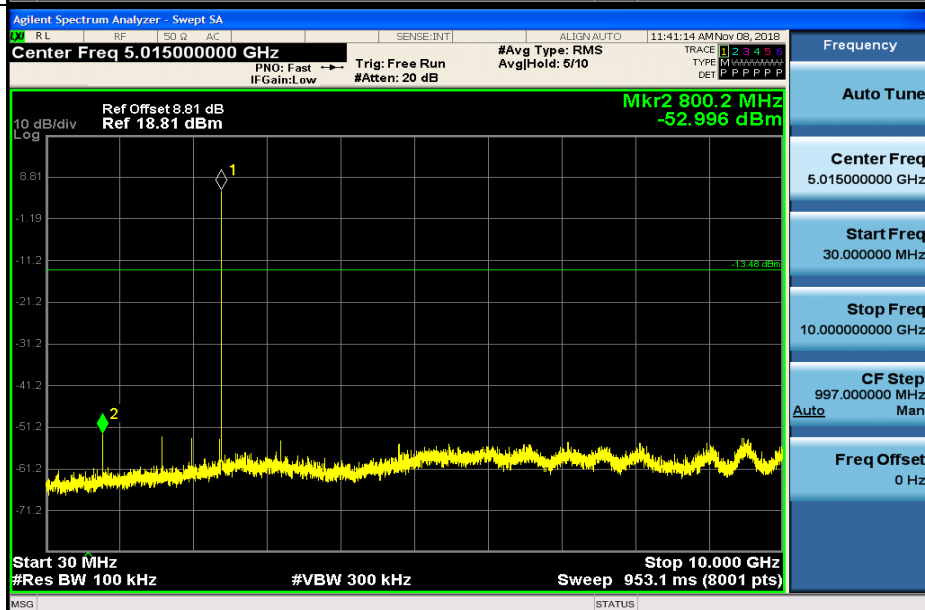
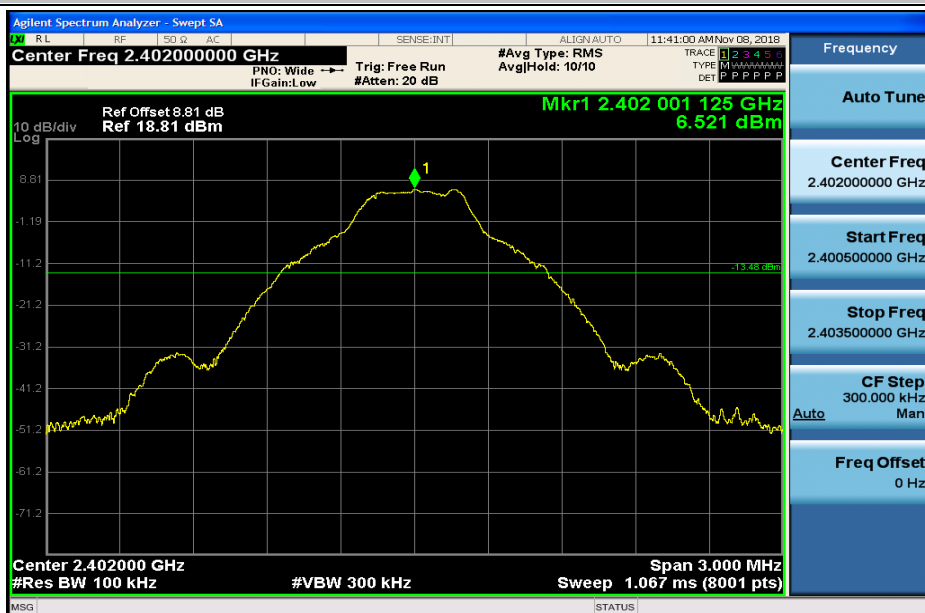
Band-edge for RF Conducted Emissions\_3DH5\_2480\_Hopping Off



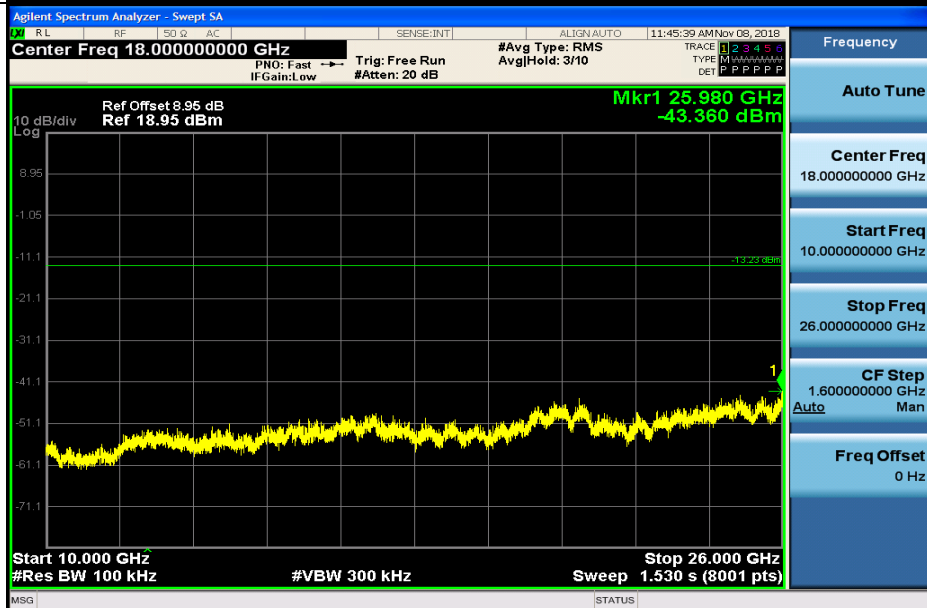
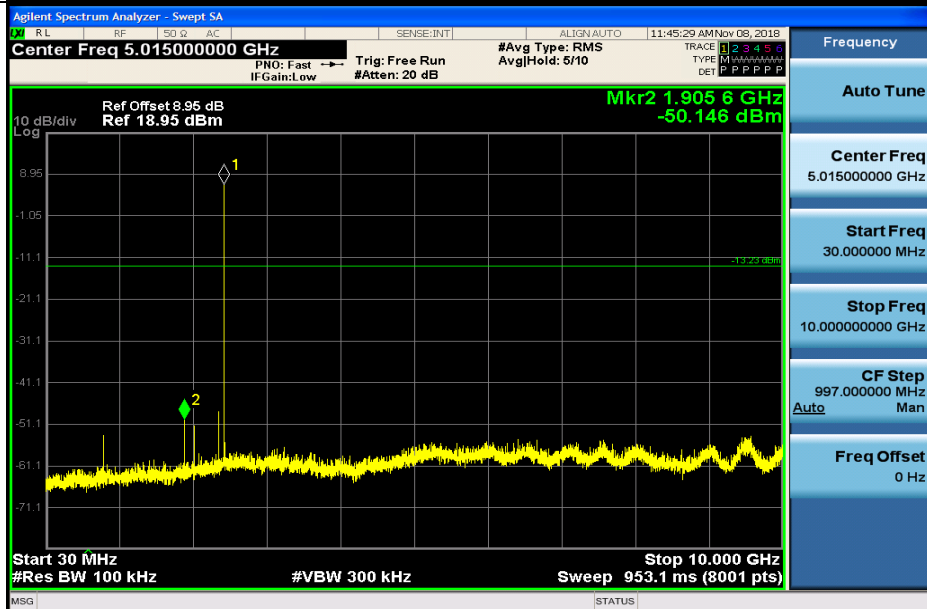
## 7.RF Conducted Spurious Emissions

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
DH5	2402	30	10000	100	300	6.52	-53.00	<-13.48	PASS
DH5	2402	10000	26000	100	300	6.521	-44.886	<-13.479	PASS
DH5	2441	30	10000	100	300	6.77	-50.15	<-13.23	PASS
DH5	2441	10000	26000	100	300	6.766	-43.360	<-13.234	PASS
DH5	2480	30	10000	100	300	6.57	-50.84	<-13.43	PASS
DH5	2480	10000	26000	100	300	6.574	-43.866	<-13.426	PASS
2DH5	2402	30	10000	100	300	4.21	-53.80	<-15.79	PASS
2DH5	2402	10000	26000	100	300	4.214	-44.203	<-15.786	PASS
2DH5	2441	30	10000	100	300	4.32	-53.68	<-15.68	PASS
2DH5	2441	10000	26000	100	300	4.32	-43.250	<-15.68	PASS
2DH5	2480	30	10000	100	300	3.98	-54.12	<-16.02	PASS
2DH5	2480	10000	26000	100	300	3.982	-43.303	<-16.018	PASS
3DH5	2402	30	10000	100	300	4.02	-51.58	<-15.98	PASS
3DH5	2402	10000	26000	100	300	4.022	-44.114	<-15.978	PASS
3DH5	2441	30	10000	100	300	4.25	-54.48	<-15.75	PASS
3DH5	2441	10000	26000	100	300	4.247	-44.405	<-15.753	PASS
3DH5	2480	30	10000	100	300	3.99	-44.61	<-16.01	PASS
3DH5	2480	10000	26000	100	300	3.994	-44.630	<-16.006	PASS

## RF Conducted Spurious Emissions\_DH5\_2402

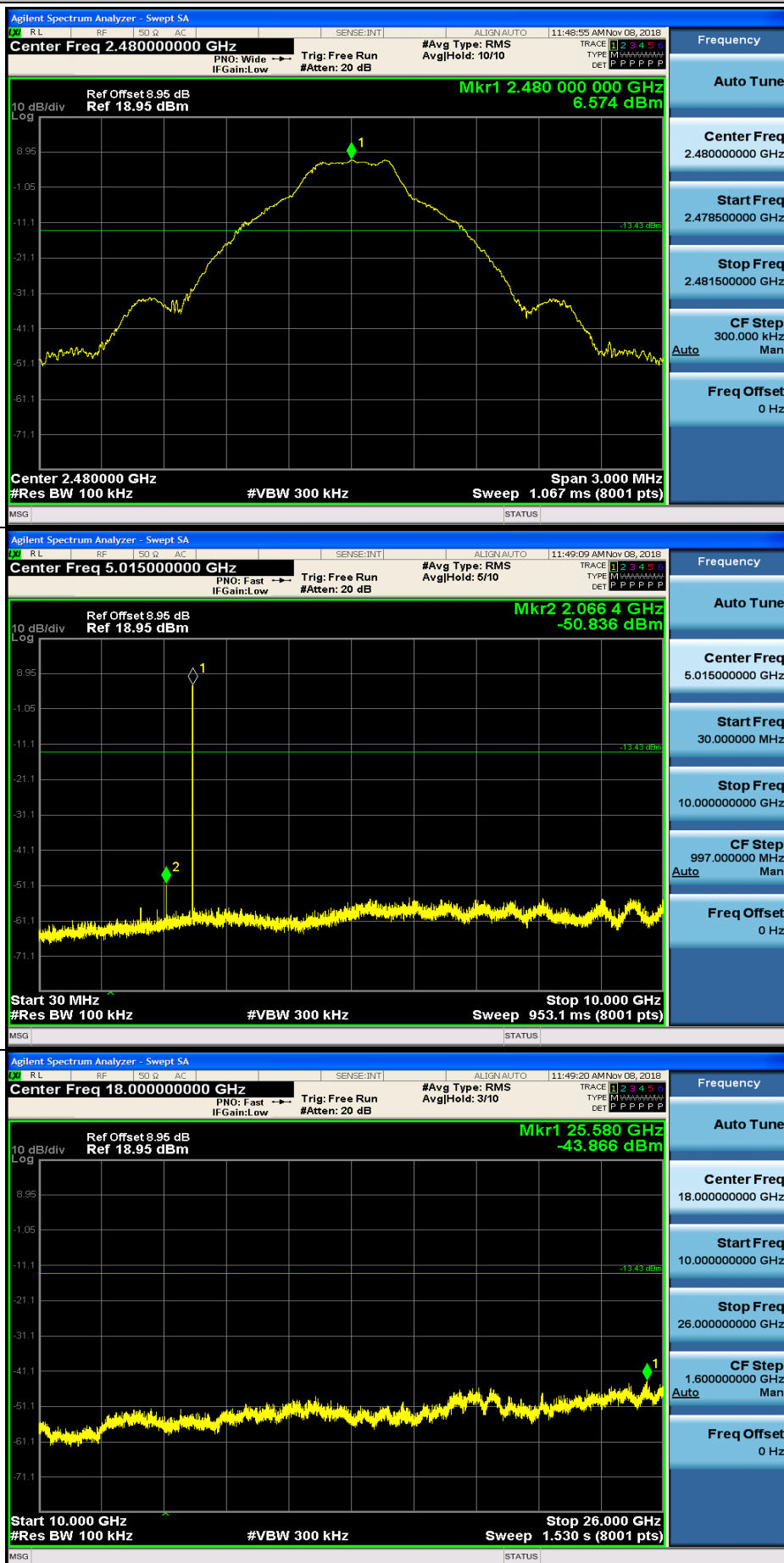


## RF Conducted Spurious Emissions\_DH5\_2441



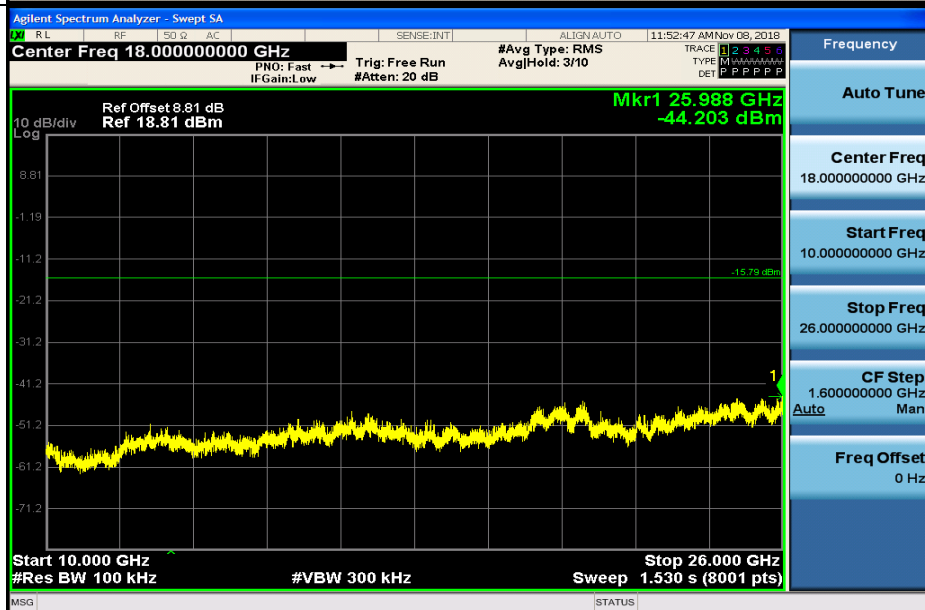
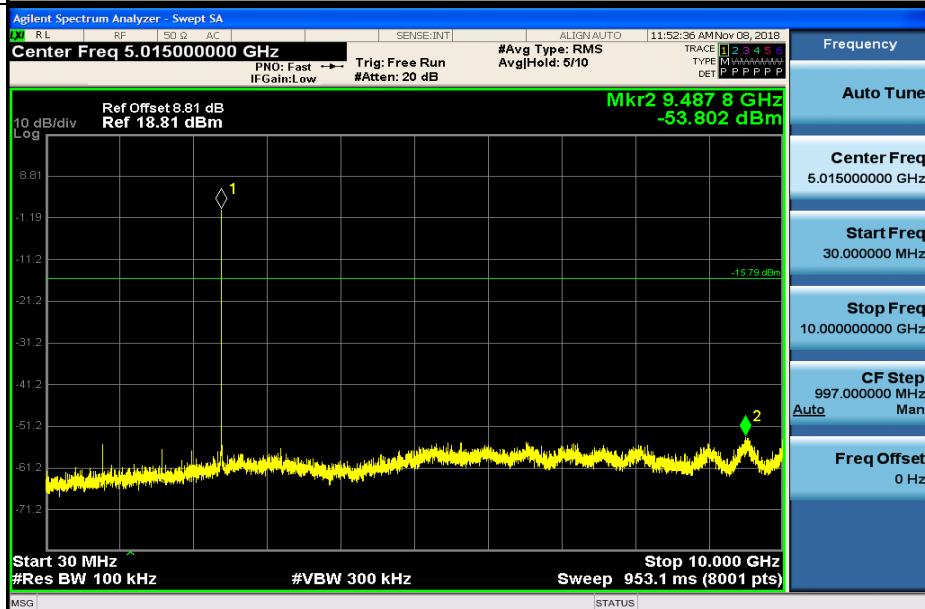


## RF Conducted Spurious Emissions\_DH5\_2480

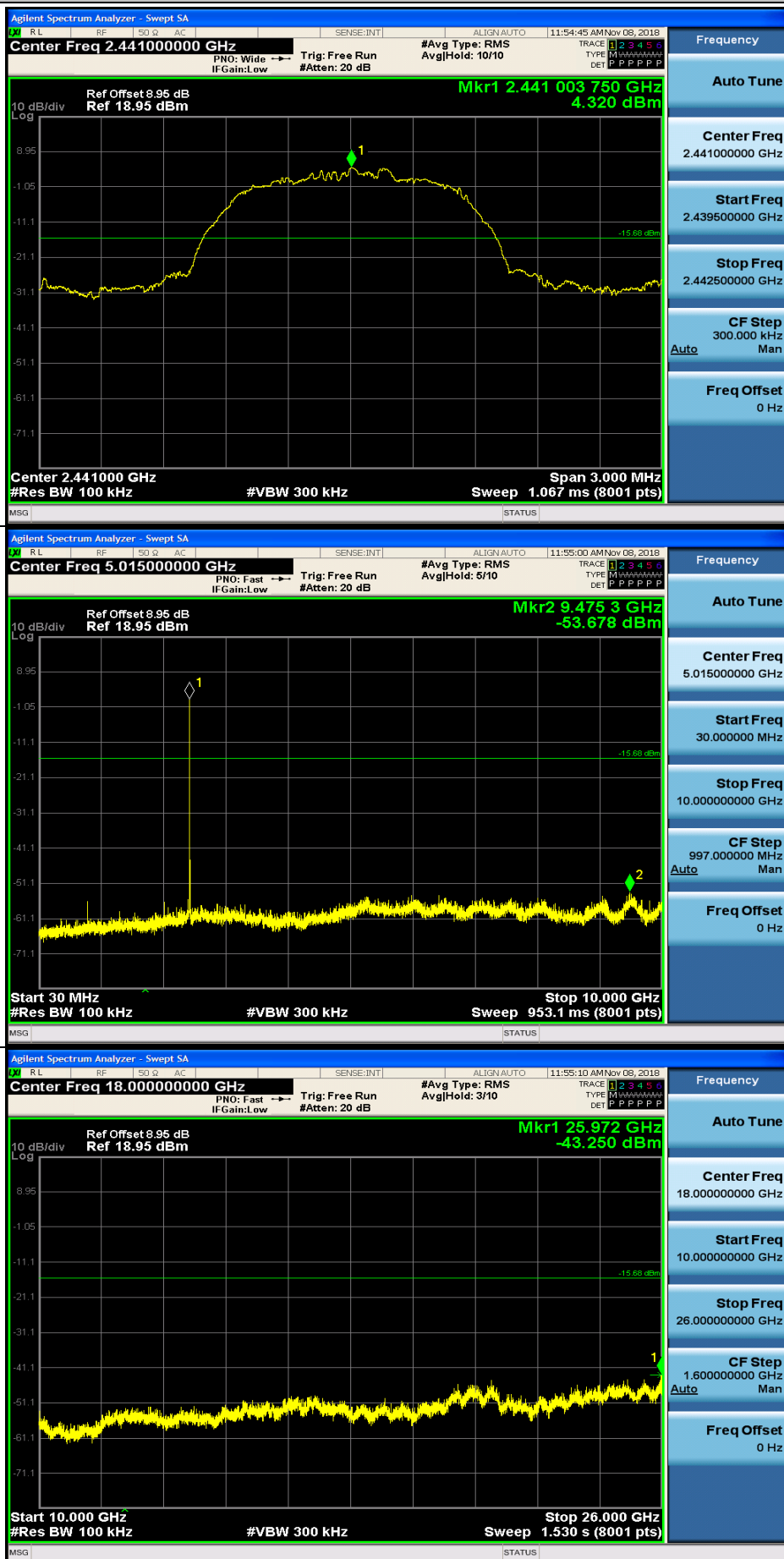




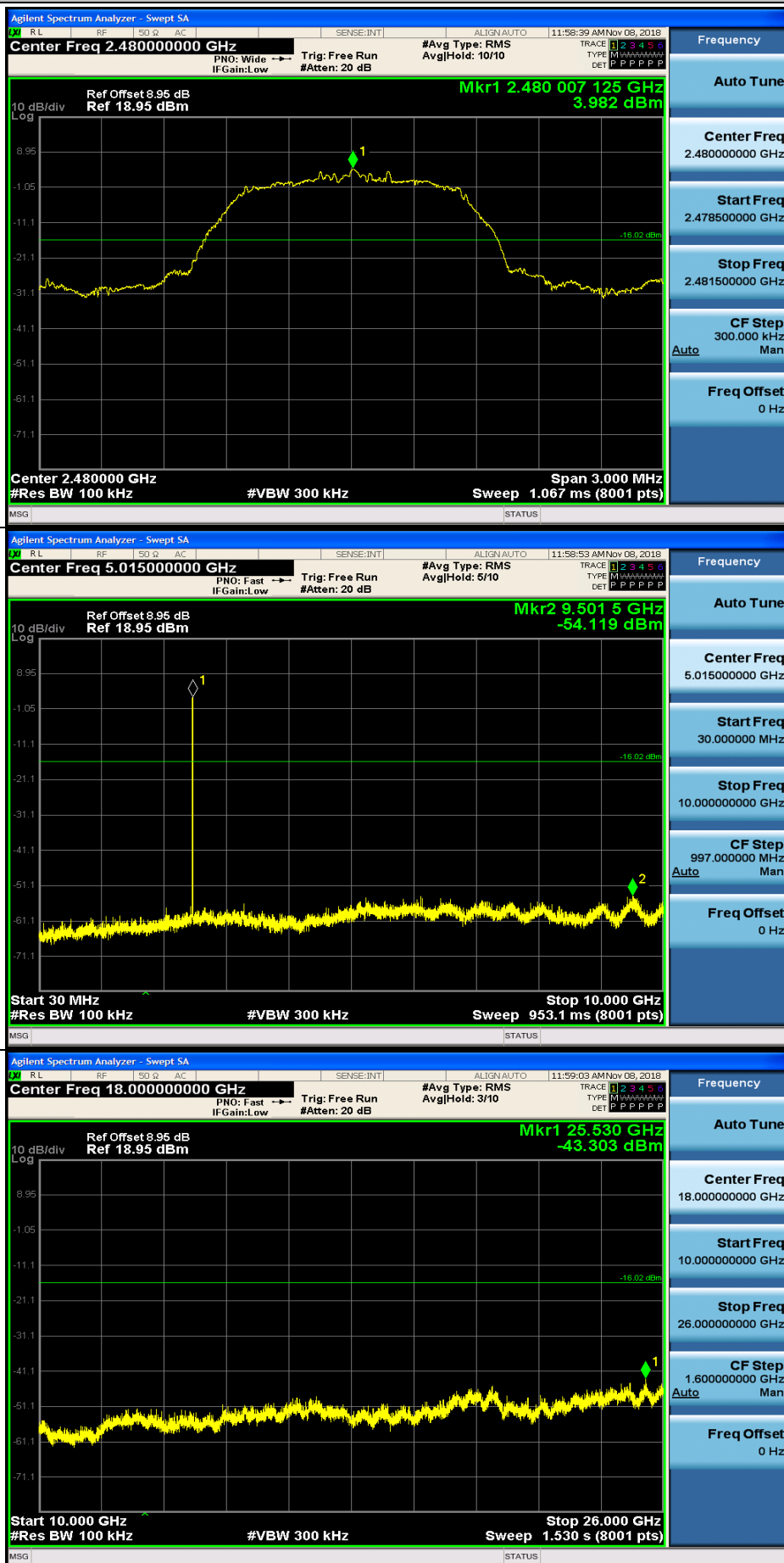
## RF Conducted Spurious Emissions\_2DH5\_2402



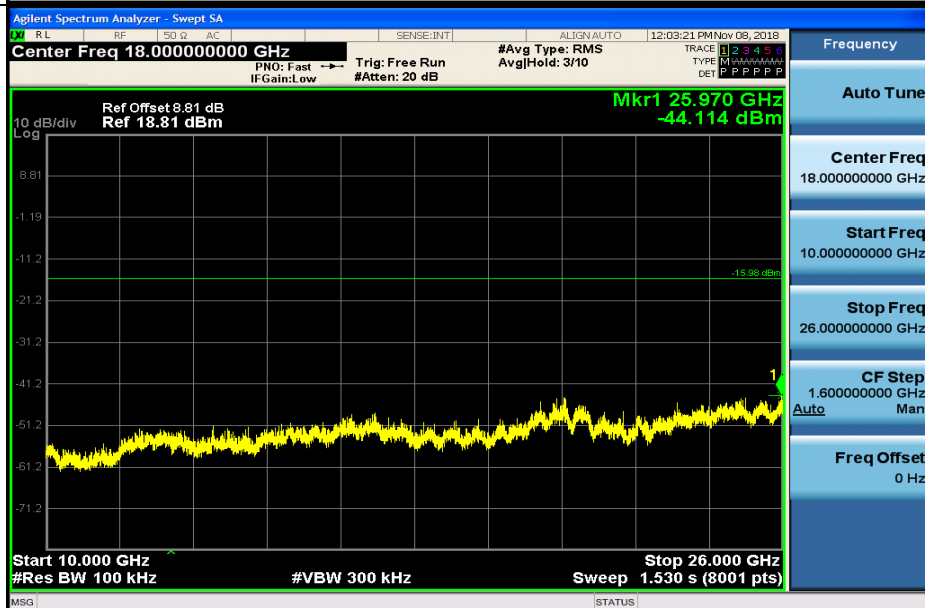
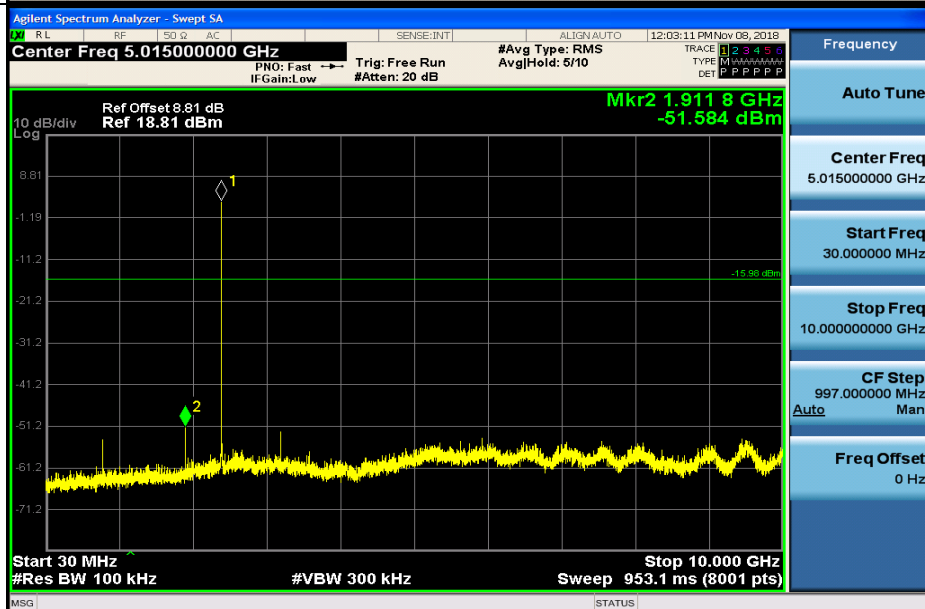
## RF Conducted Spurious Emissions\_2DH5\_2441



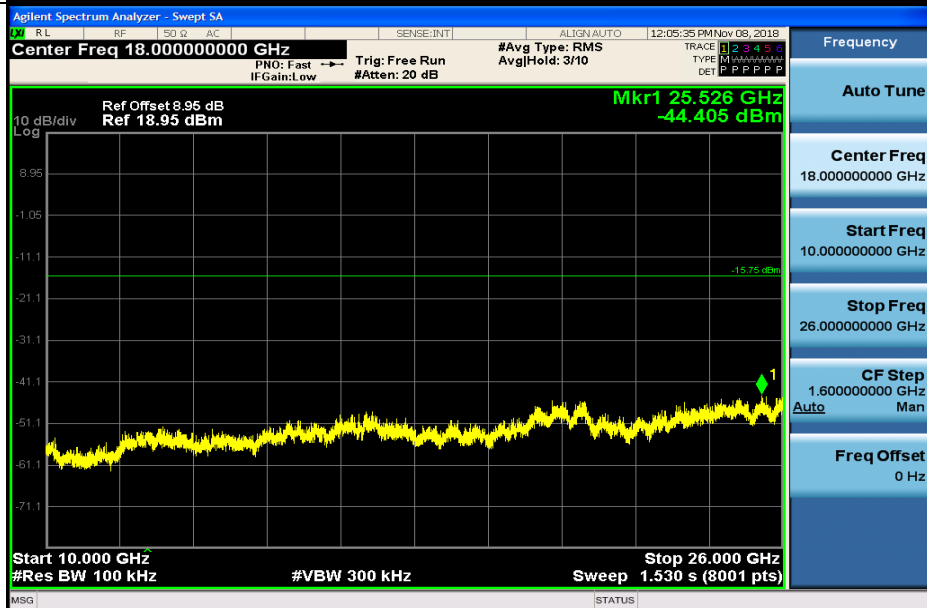
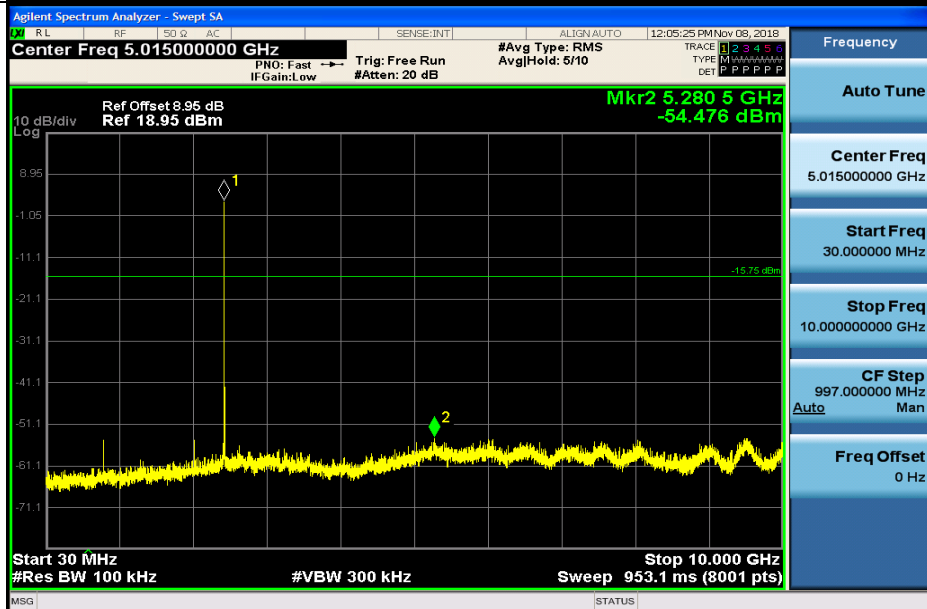
## RF Conducted Spurious Emissions\_2DH5\_2480



## RF Conducted Spurious Emissions\_3DH5\_2402



## RF Conducted Spurious Emissions\_3DH5\_2441



## RF Conducted Spurious Emissions\_3DH5\_2480

