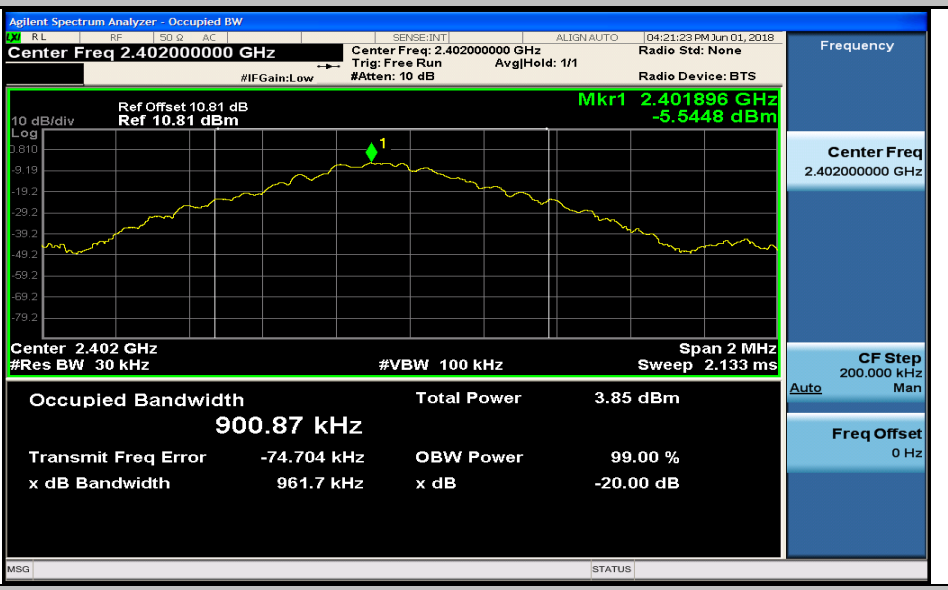
Appendix 15.247 for SHEM180400299704

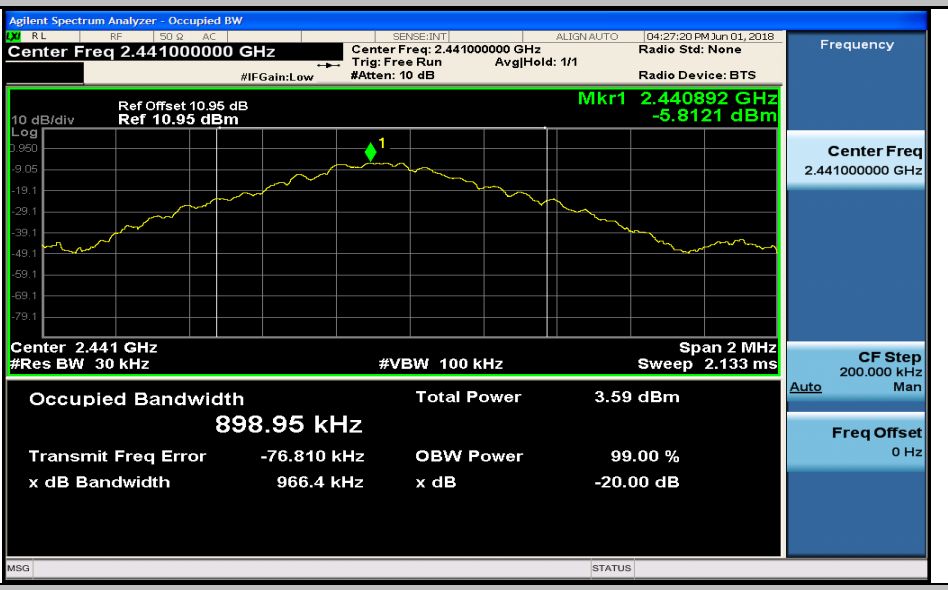
1.20 dB Bandwidth

Test Mode	Test Channel	EBW[MHz]	Limit[MHz]	Verdict
DH5	2402	0.96	---	PASS
DH5	2441	0.97	---	PASS
DH5	2480	0.96	---	PASS
2DH5	2402	1.38	---	PASS
2DH5	2441	1.38	---	PASS
2DH5	2480	1.37	---	PASS

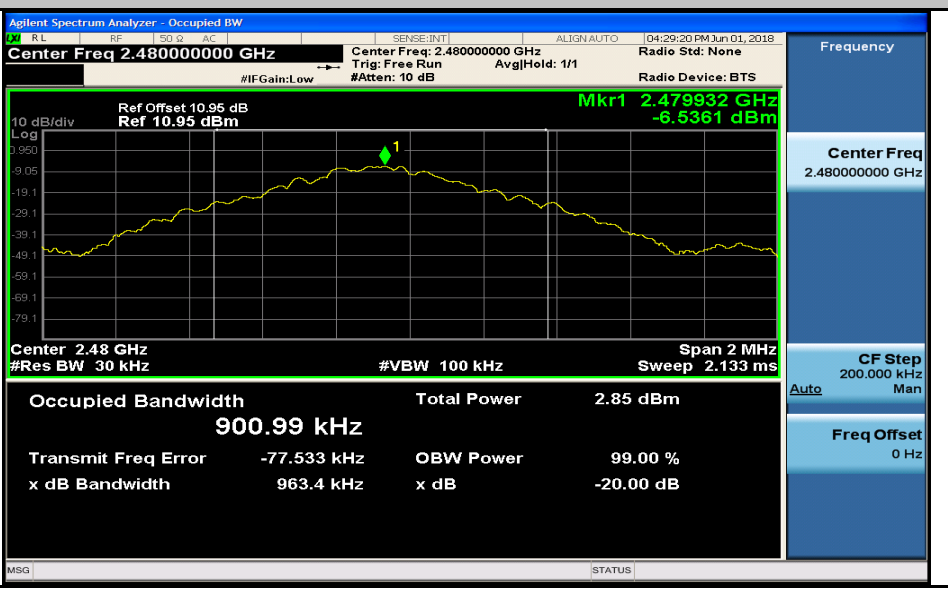
20 dB Bandwidth_DH5_2402



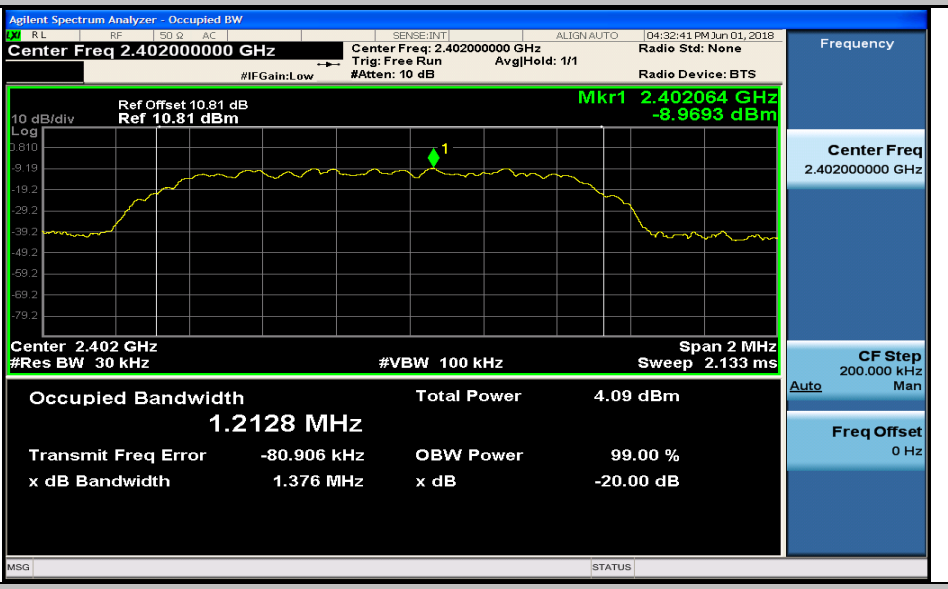
20 dB Bandwidth_DH5_2441



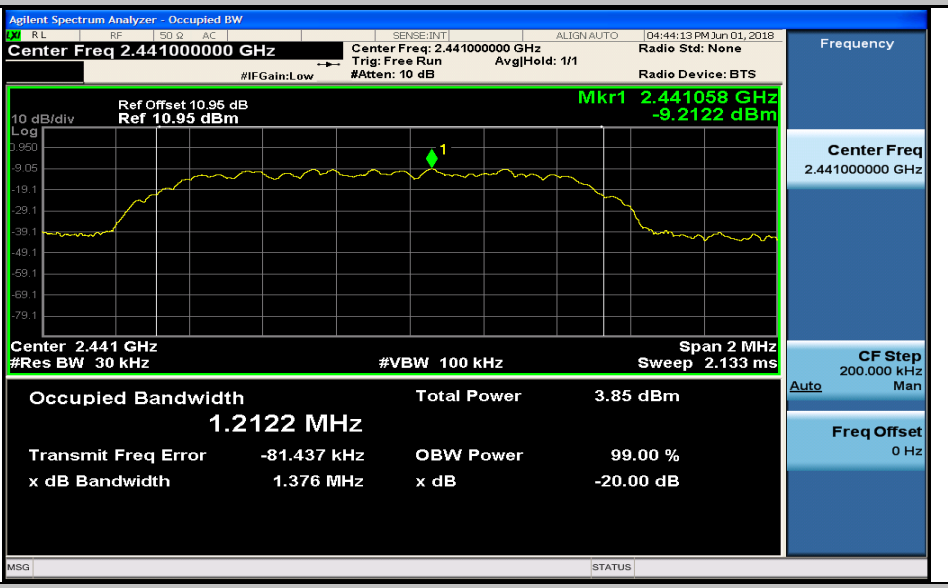
20 dB Bandwidth_DH5_2480



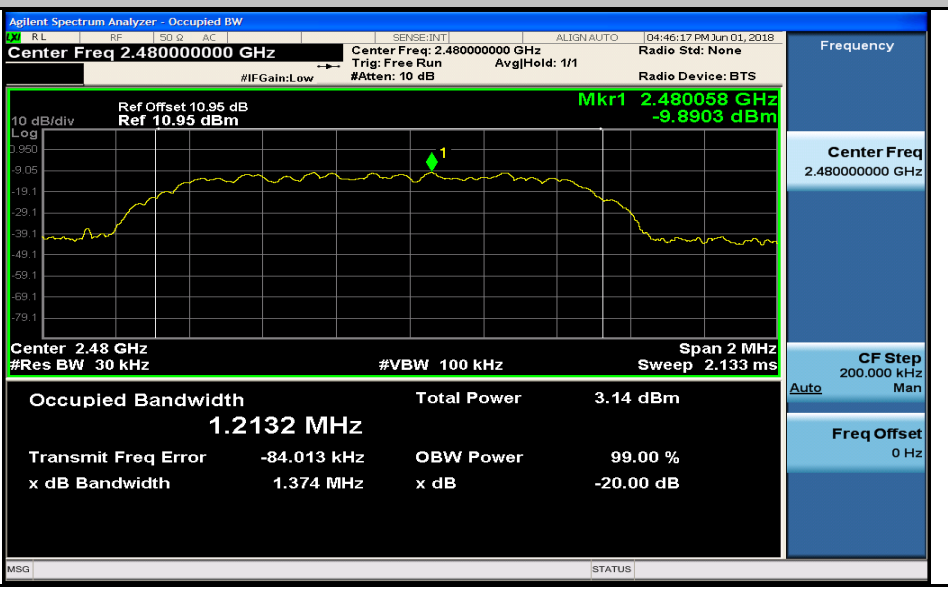
20 dB Bandwidth_2DH5_2402



20 dB Bandwidth_2DH5_2441



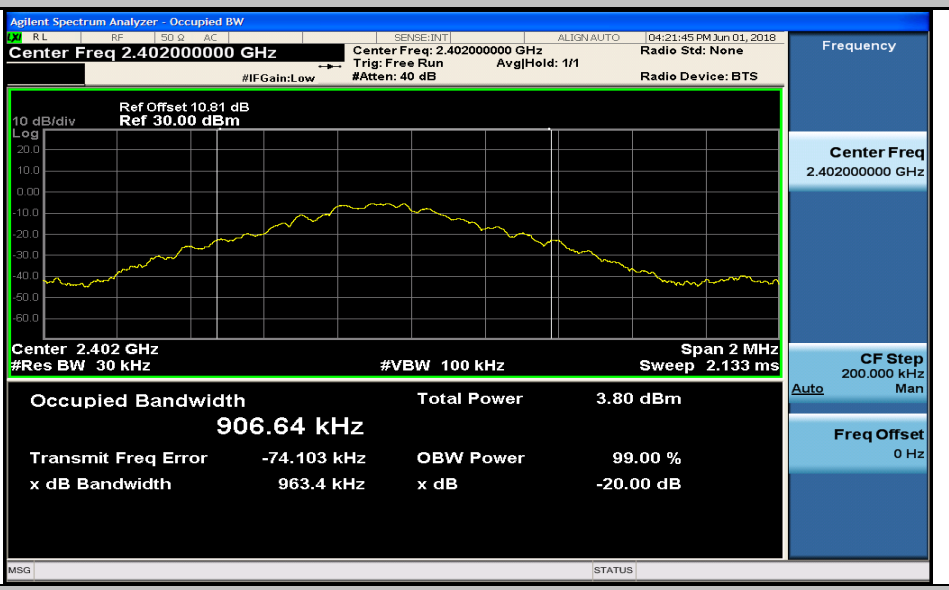
20 dB Bandwidth_2DH5_2480



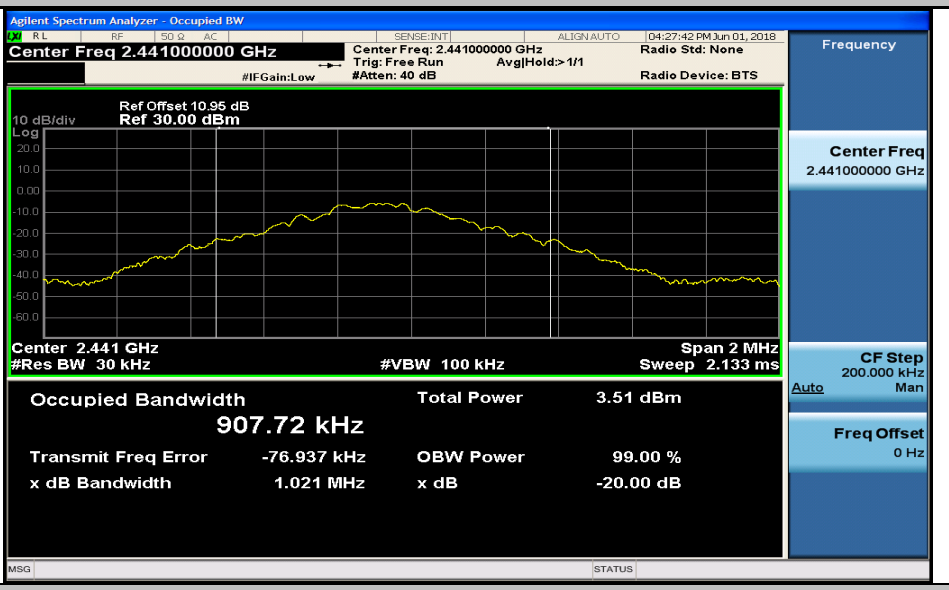
2.Occupied Bandwidth

Test Mode	Test Channel	OBW[MHz]	Limit[MHz]	Verdict
DH5	2402	0.91	---	PASS
DH5	2441	0.91	---	PASS
DH5	2480	0.91	---	PASS
2DH5	2402	1.22	---	PASS
2DH5	2441	1.22	---	PASS
2DH5	2480	1.21	---	PASS

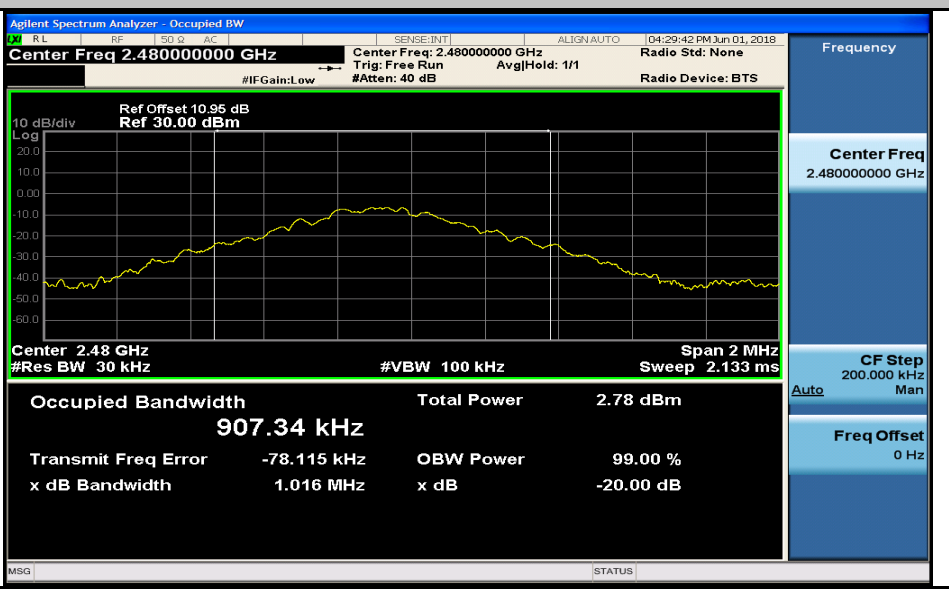
Occupied Bandwidth_DH5_2402



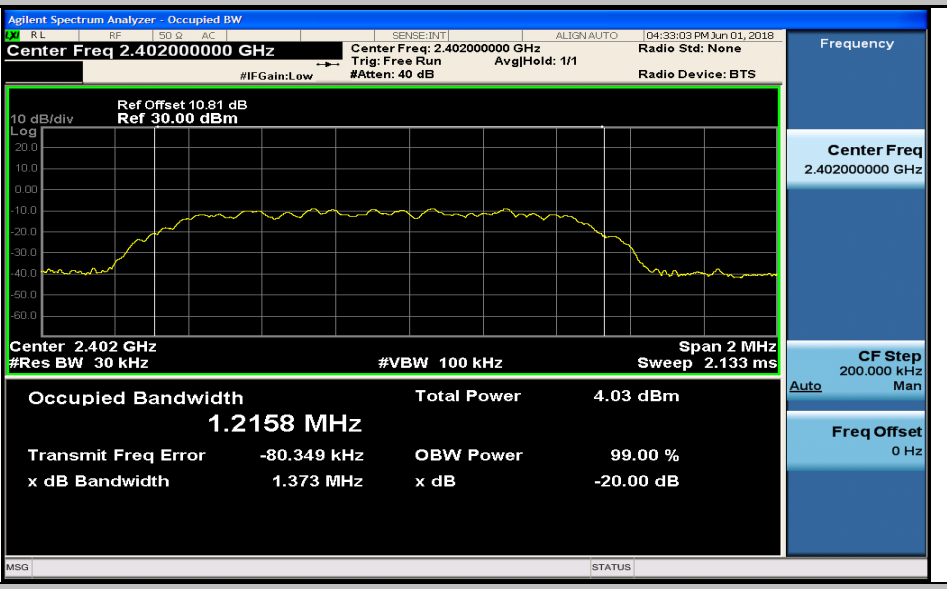
Occupied Bandwidth_DH5_2441



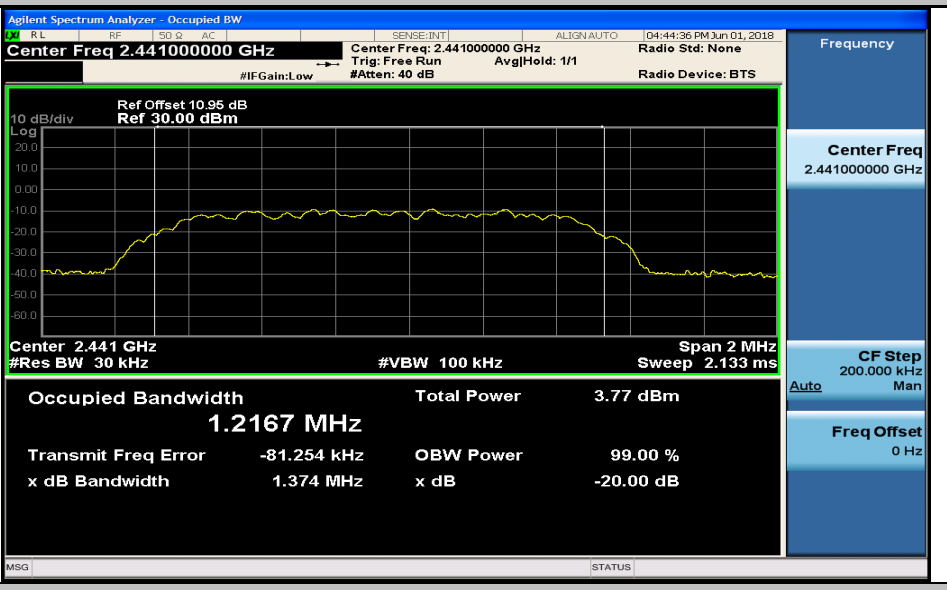
Occupied Bandwidth_DH5_2480



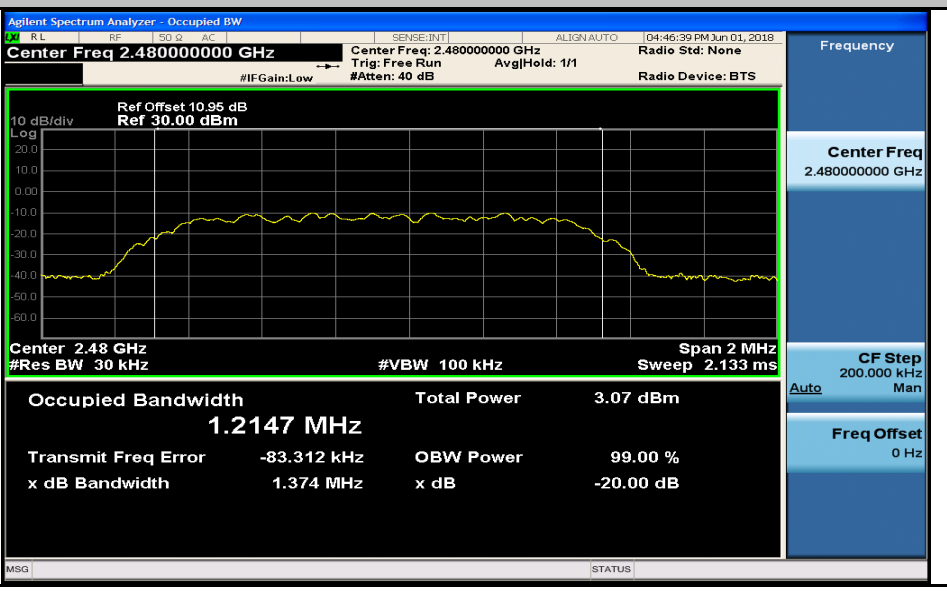
Occupied Bandwidth_2DH5_2402



Occupied Bandwidth_2DH5_2441



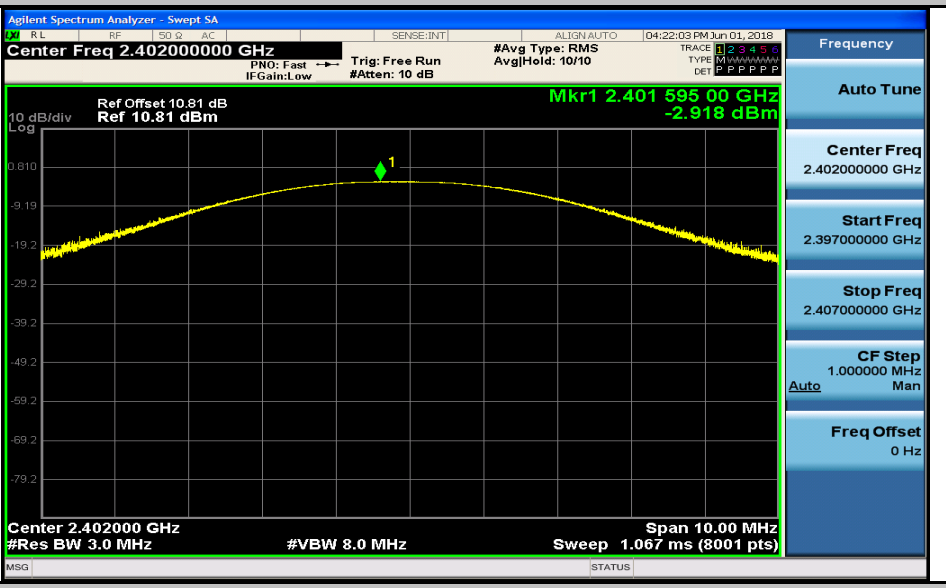
Occupied Bandwidth_2DH5_2480



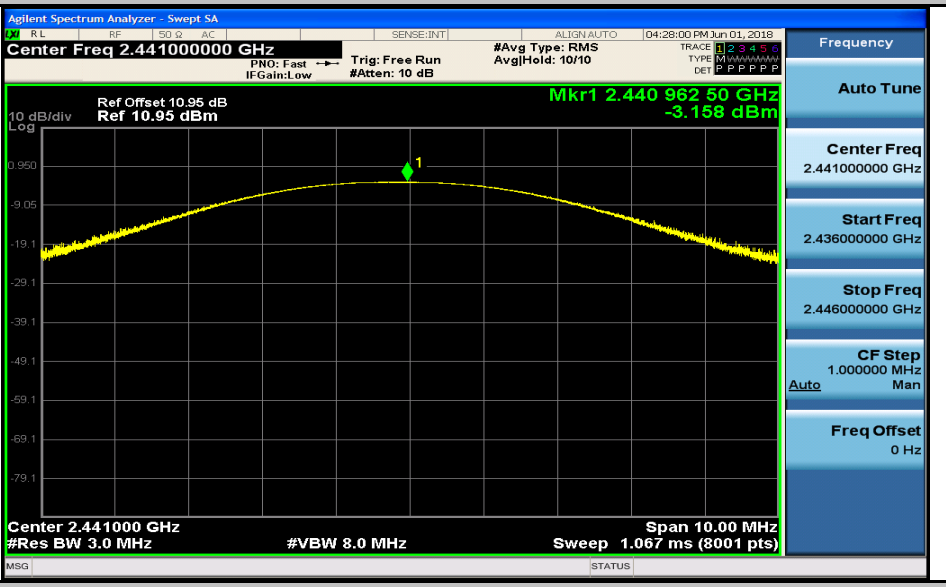
3.Conducted Peak Output Power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
DH5	2402	-2.92	30	PASS
DH5	2441	-3.16	30	PASS
DH5	2480	-3.89	30	PASS
2DH5	2402	-0.31	30	PASS
2DH5	2441	-0.50	30	PASS
2DH5	2480	-1.19	30	PASS

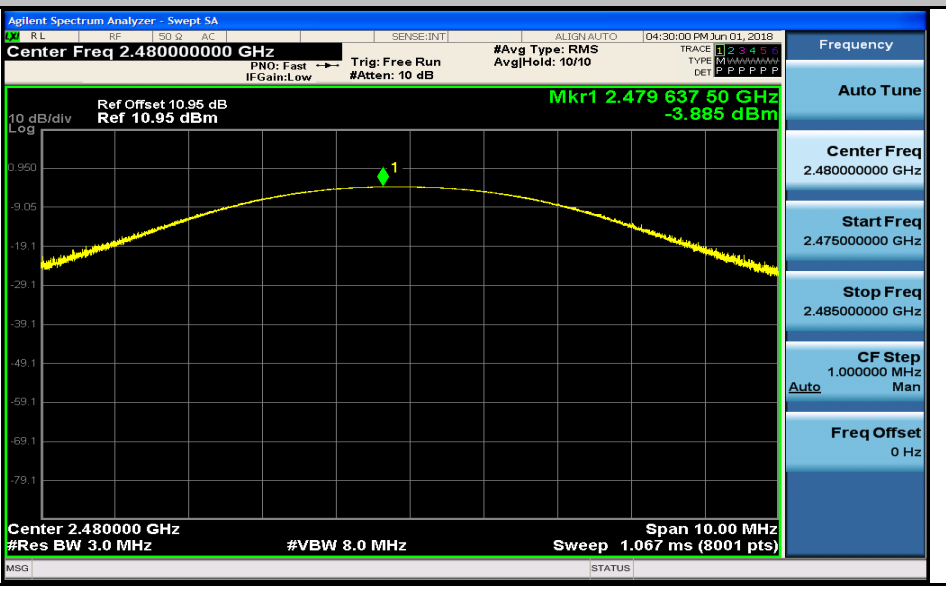
Conducted Peak Output Power_DH5_2402



Conducted Peak Output Power_DH5_2441



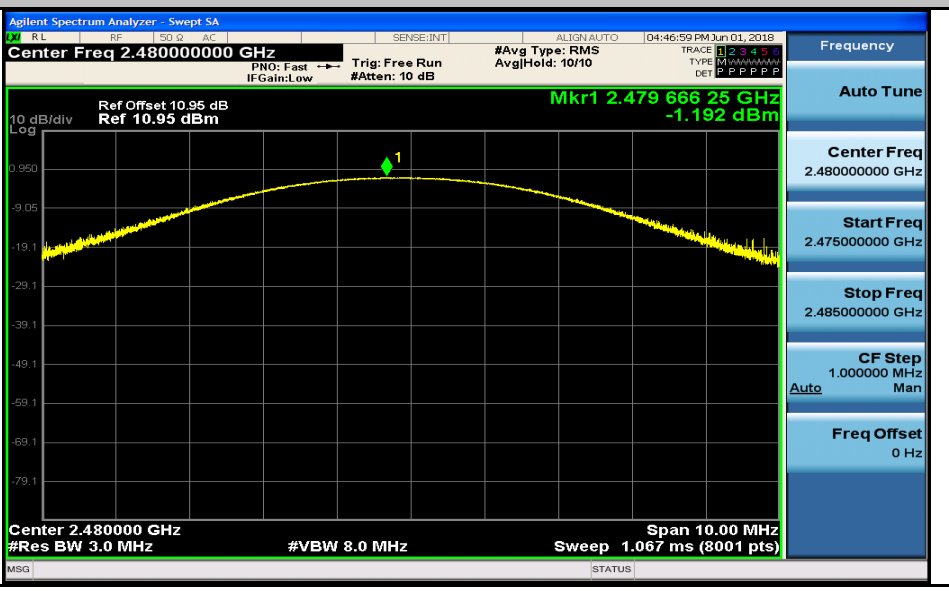
Conducted Peak Output Power_DH5_2480



Conducted Peak Output Power_2DH5_2402

Conducted Peak Output Power_2DH5_2441

Conducted Peak Output Power_2DH5_2480

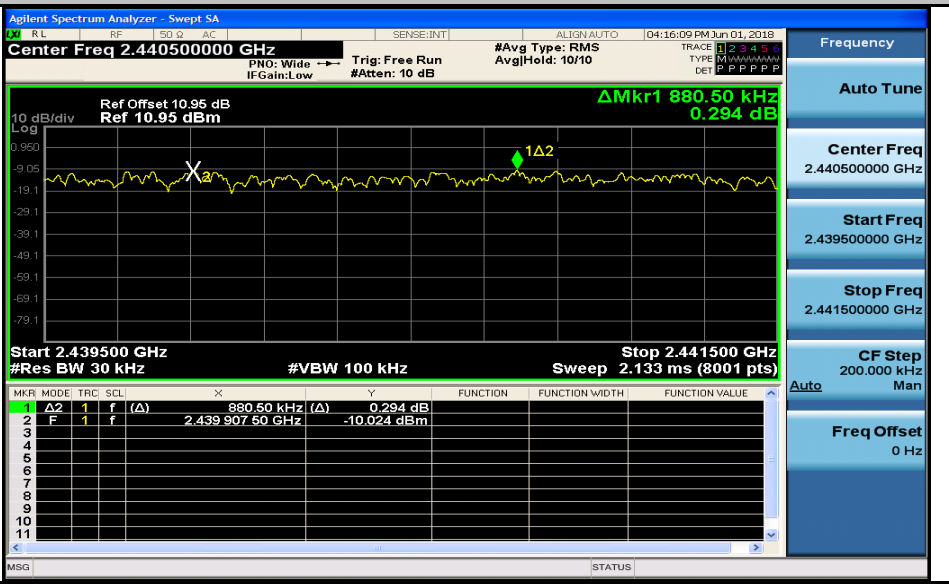


4.Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	2441	0.98	0.025	PASS
2DH5	2441	0.88	0.025	PASS

Carrier Frequency Separation_DH5_2441

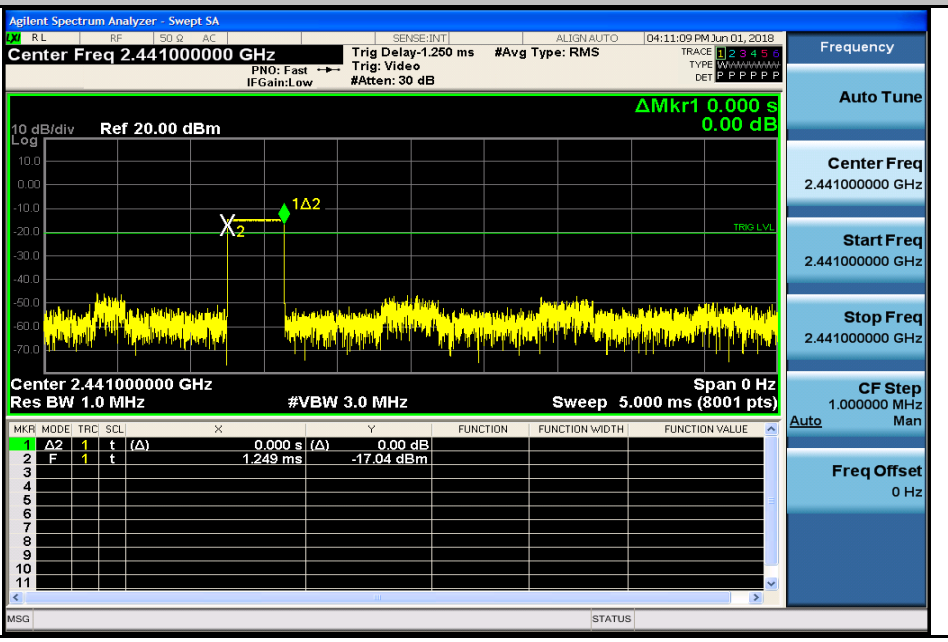
Carrier Frequency Separation_2DH5_2441

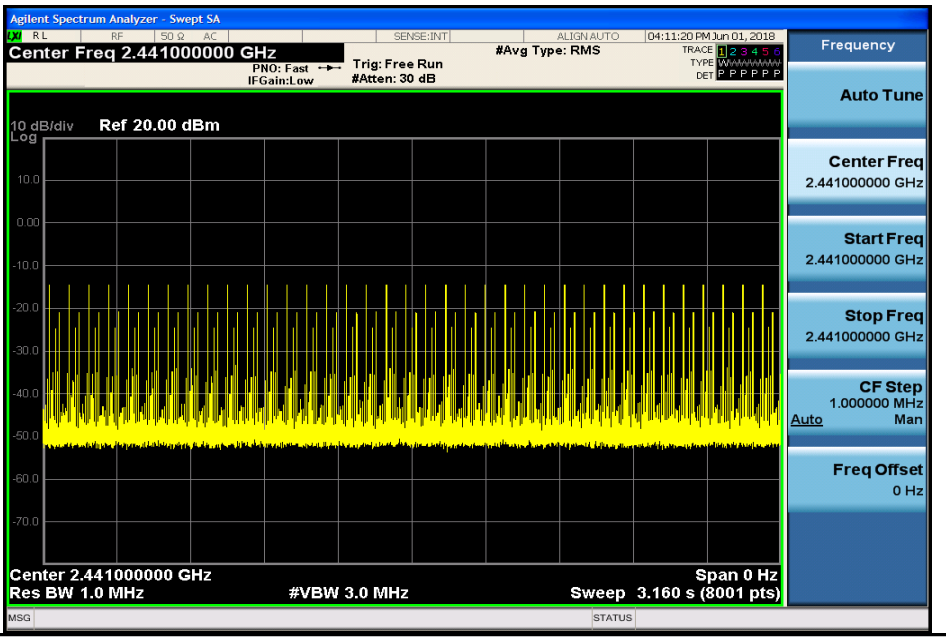


5.Dwell Time

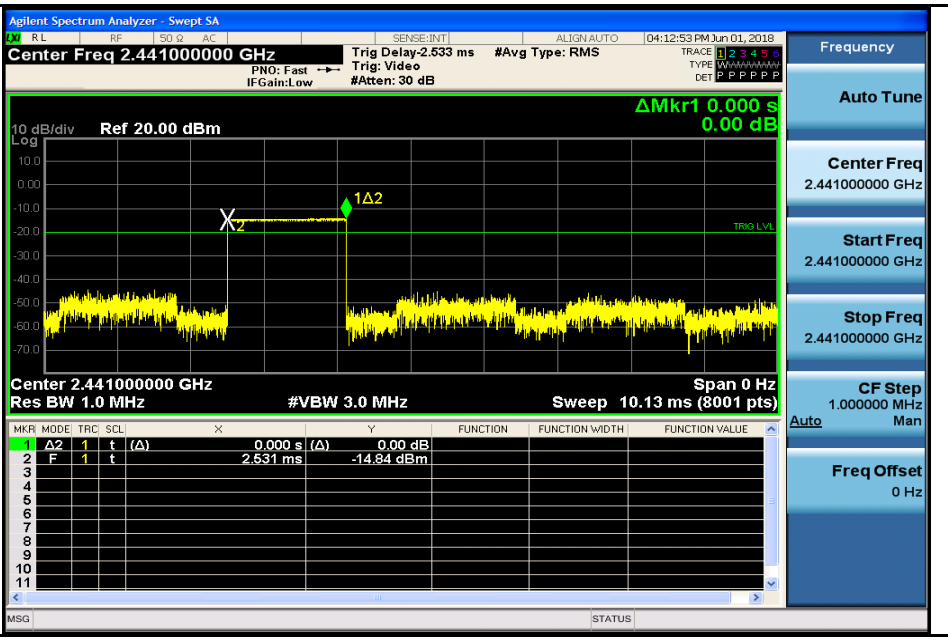
Test Mode	Test Channel	Burst Width[ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit[s]	Verdict
DH1	2441	0.39	370	0.144	0.4	PASS
DH3	2441	1.64	160	0.262	0.4	PASS
DH5	2441	2.92	110	0.321	0.4	PASS
2DH1	2441	0.40	380	0.152	0.4	PASS
2DH3	2441	1.68	170	0.286	0.4	PASS
2DH5	2441	2.93	100	0.293	0.4	PASS

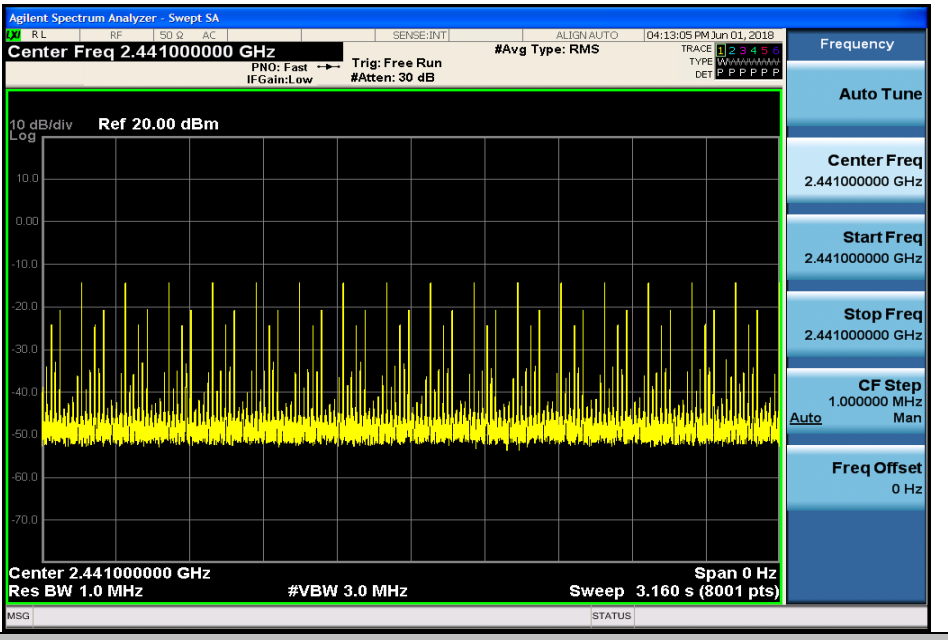
Dwell Time_DH1_2441



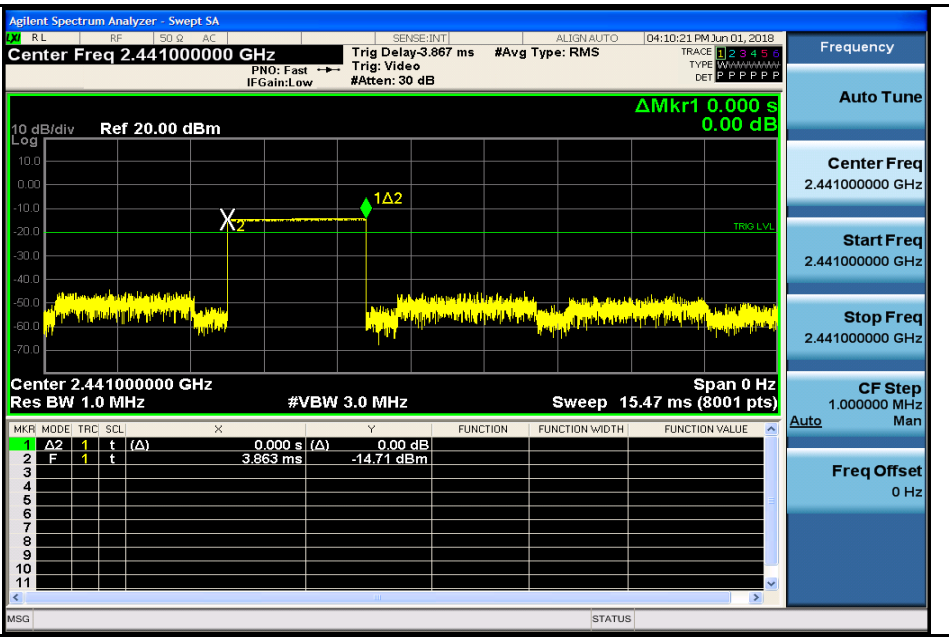


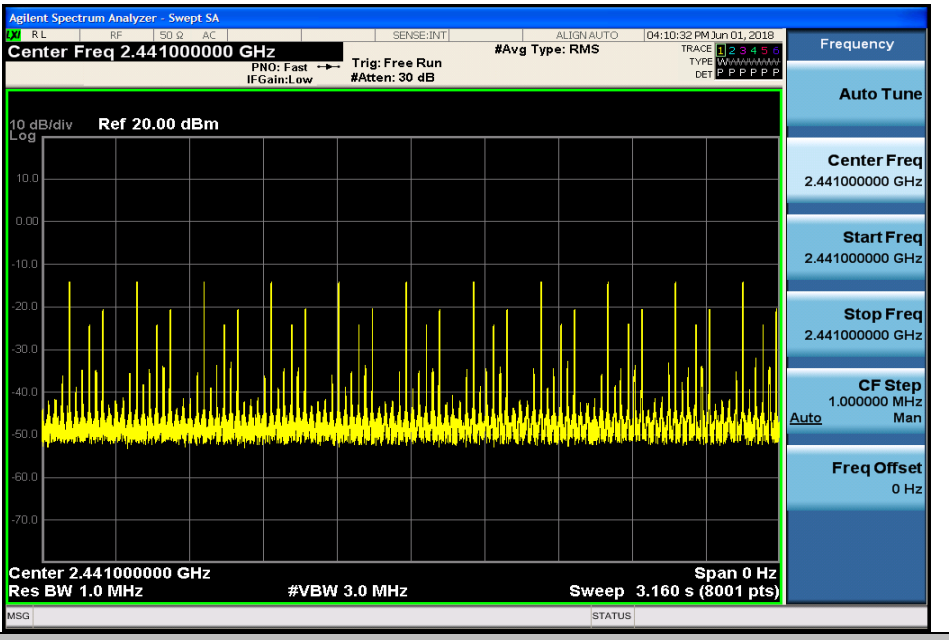
Dwell Time_DH3_2441



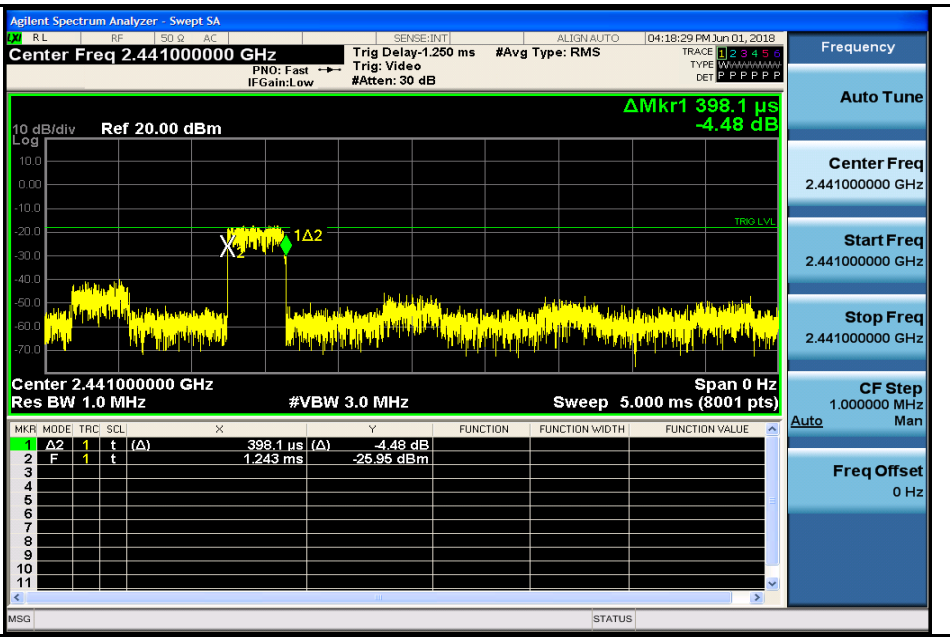


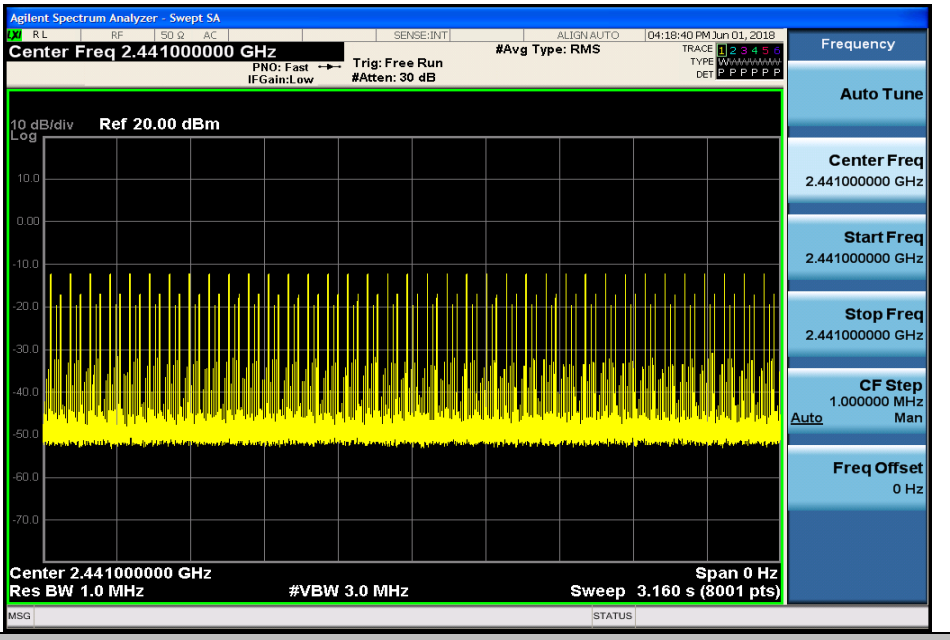
Dwell Time_DH5_2441



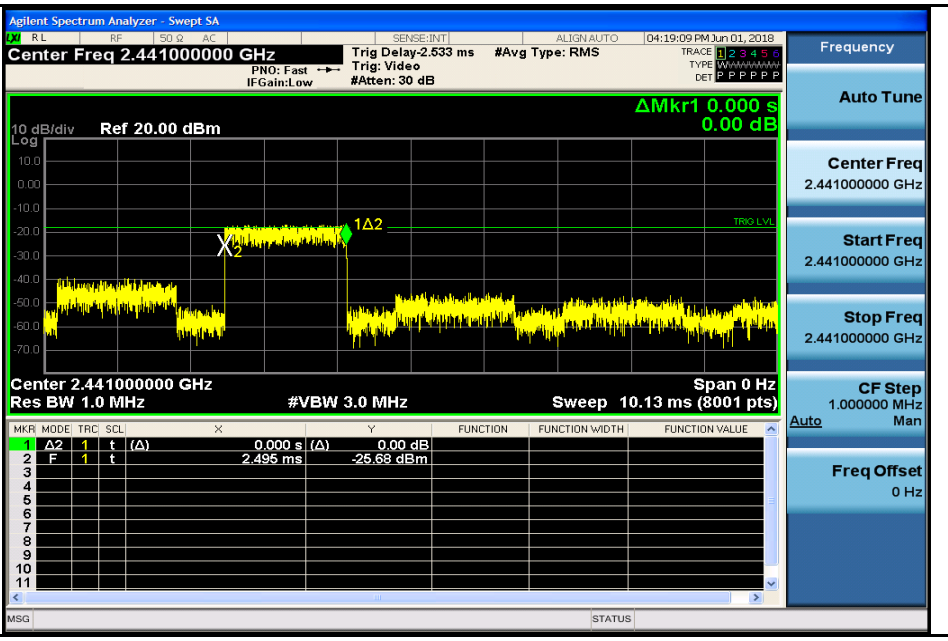


Dwell Time_2DH1_2441

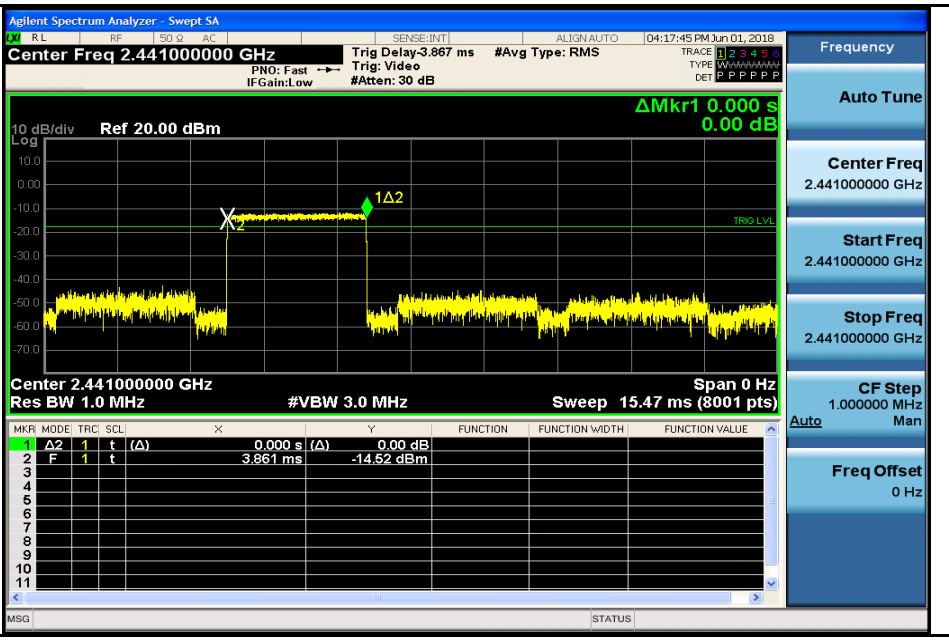


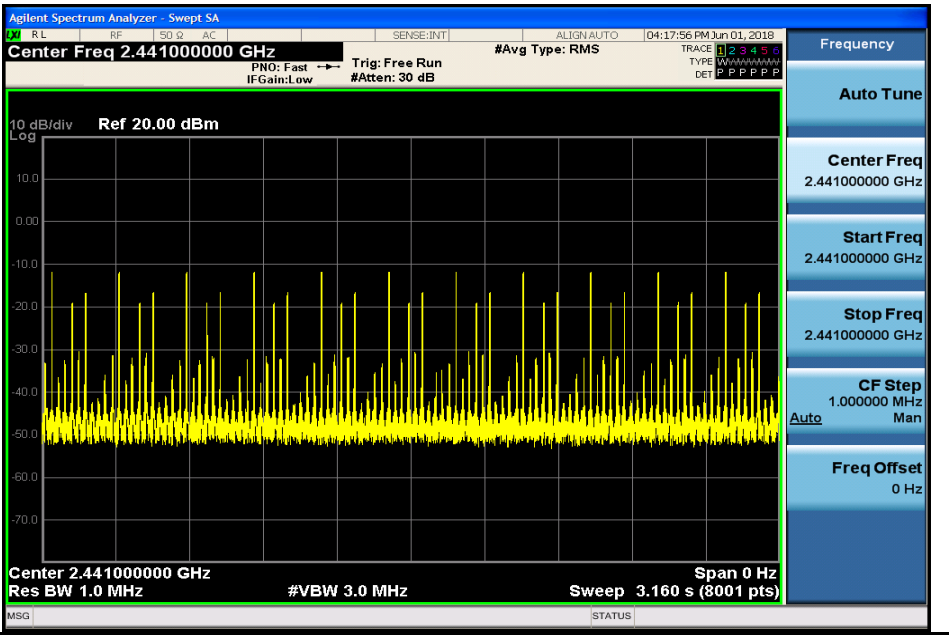


Dwell Time_2DH3_2441



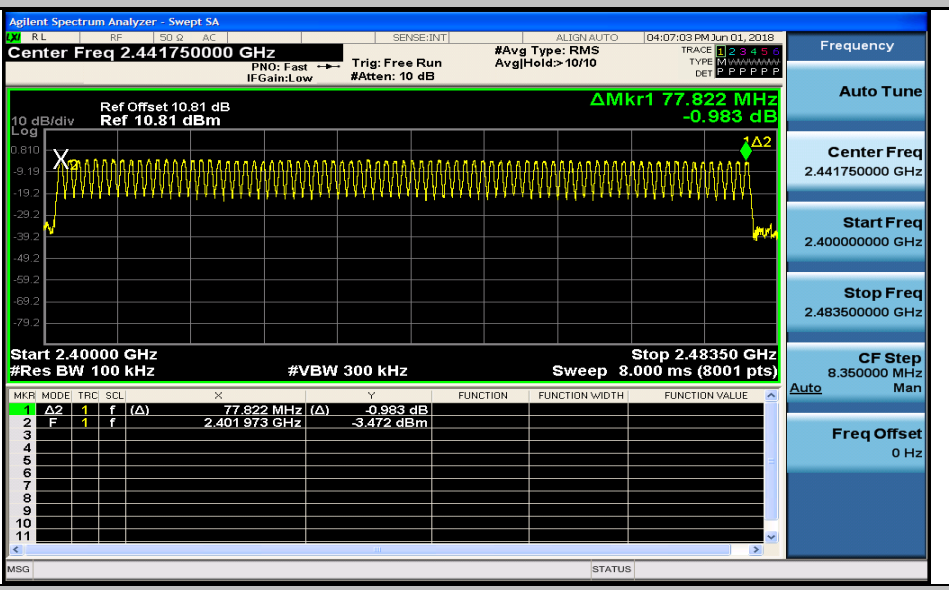
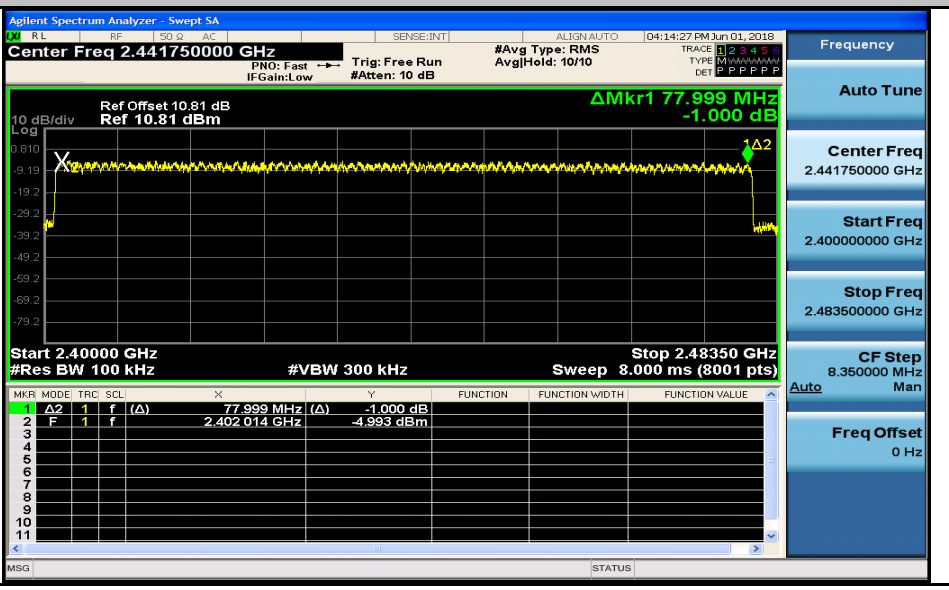
Dwell Time_2DH5_2441


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441000000 GHz
PNO: Fast
IFGain:Low
Trig Delay-3.867 ms
Trig: Video
#Atten: 30 dB
#Avg Type: RMS
04:17:45 PM Jun 01, 2018
ΔMkr1 0.000 s
0.00 dB
10 dB/div
Log
Ref 20.00 dBm
1Δ2
TRIG LVL
Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 15.47 ms (8001 pts)
1 Δ2 1 t (Δ) 0.000 s (Δ) 0.00 dB
2 F 1 t 3.861 ms -14.52 dBm
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
MSG
STATUS


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
04:17:56 PM Jun 01, 2018
10 dB/div
Log
Ref 20.00 dBm
Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 3.160 s (8001 pts)
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
MSG
STATUS

6.Hopping Channel Number

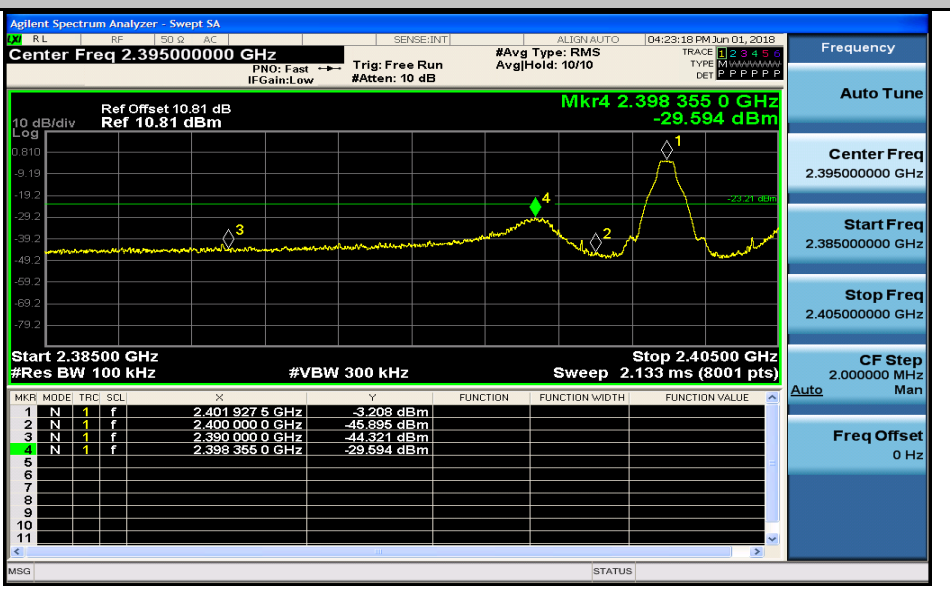
Test Mode	Number of Hopping Channel[N]	Limit[N]	Verdict
DH5	79	>=15	PASS
2DH5	79	>=15	PASS

Hopping Channel Number_DH5

Hopping Channel Number_2DH5


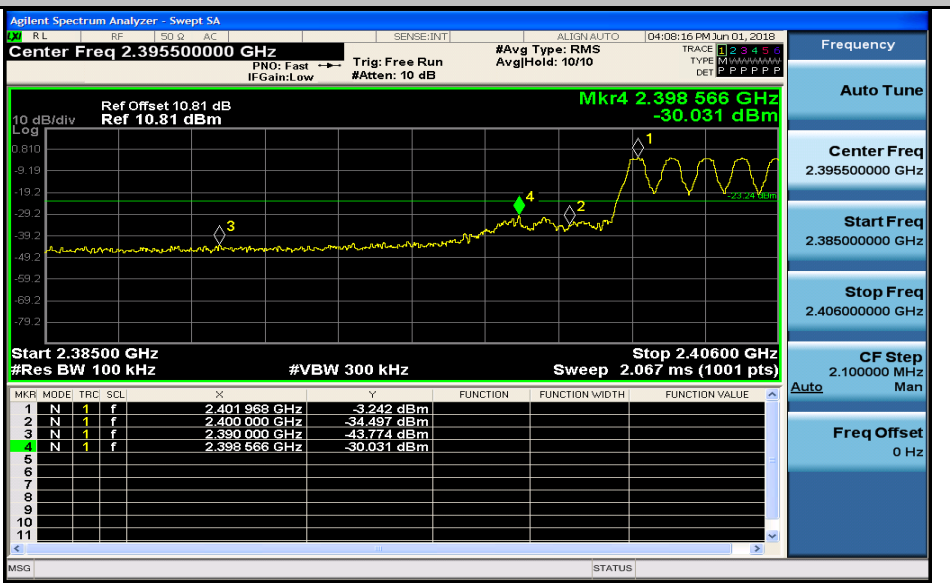
7.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Hopping	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit[dBm]	Verdict
DH5	2402	Off	-3.21	-29.59	-23.21	PASS
DH5	2402	On	-3.24	-30.03	-23.24	PASS
DH5	2480	Off	-4.20	-33.96	-24.20	PASS
DH5	2480	On	-4.18	-34.89	-24.18	PASS
2DH5	2402	Off	-4.29	-28.15	-24.29	PASS
2DH5	2402	On	-4.29	-30.65	-24.29	PASS
2DH5	2480	Off	-5.21	-31.68	-25.21	PASS
2DH5	2480	On	-5.37	-34.01	-25.37	PASS

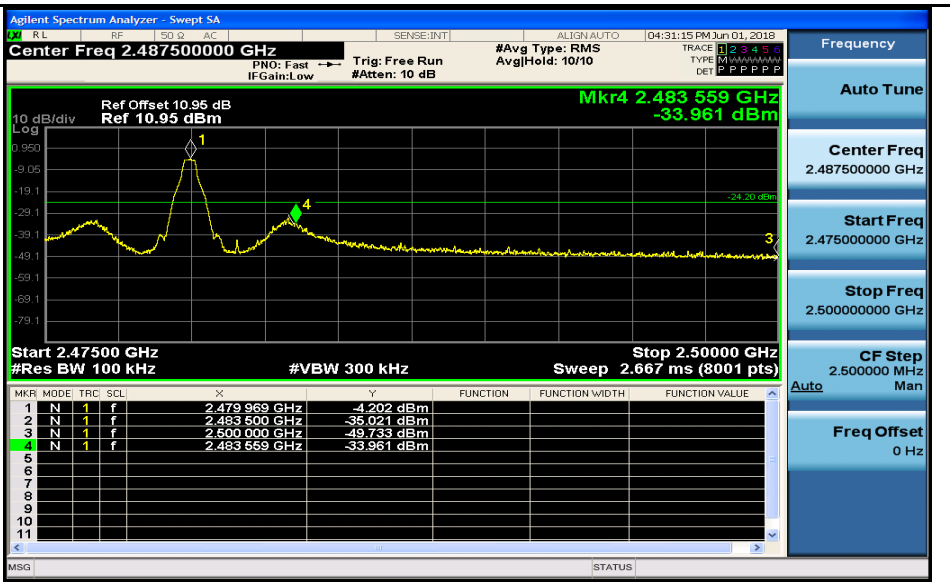
Band-edge for RF Conducted Emissions_DH5_2402_Hopping Off



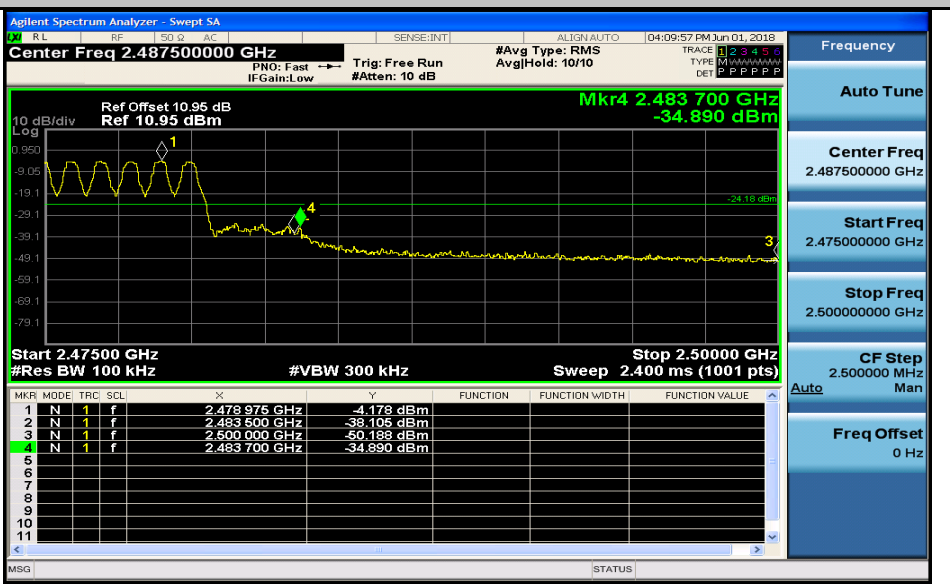
Band-edge for RF Conducted Emissions_DH5_2402_Hopping On



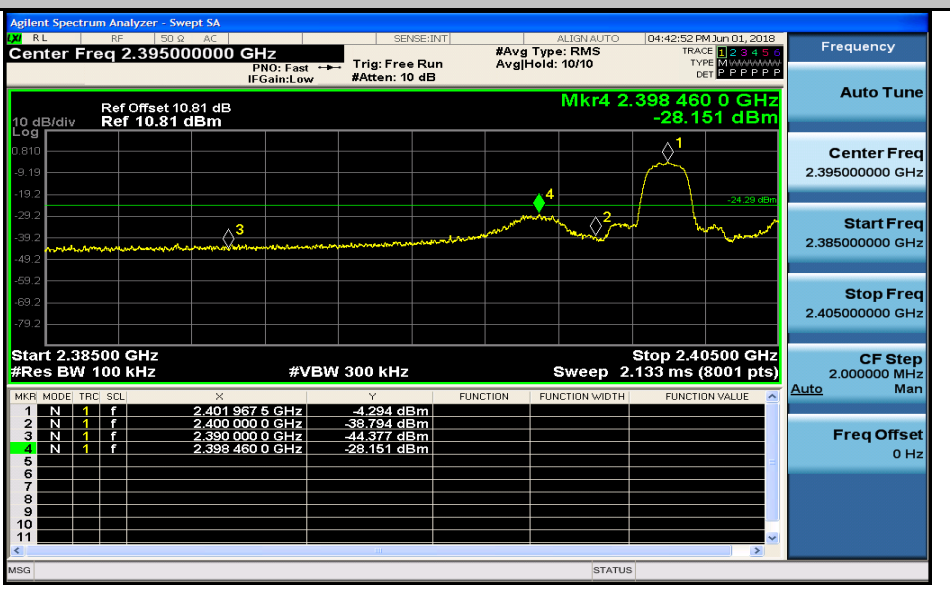
Band-edge for RF Conducted Emissions_DH5_2480_Hopping Off



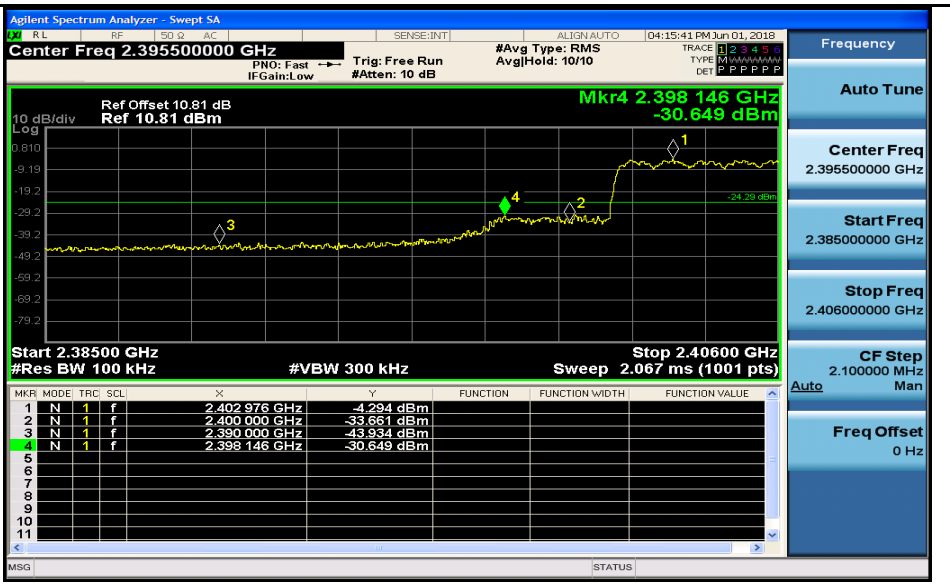
Band-edge for RF Conducted Emissions_DH5_2480_Hopping On



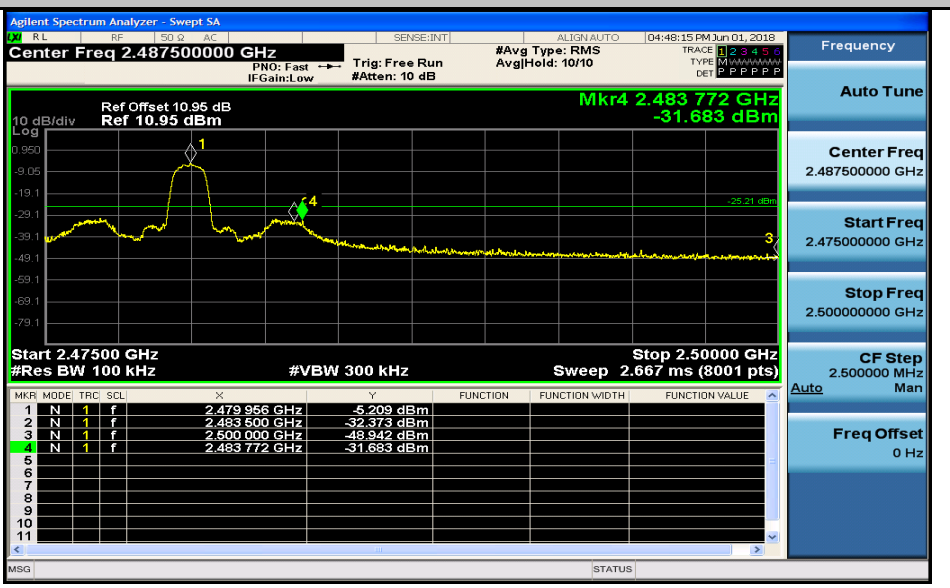
Band-edge for RF Conducted Emissions_2DH5_2402_Hopping Off



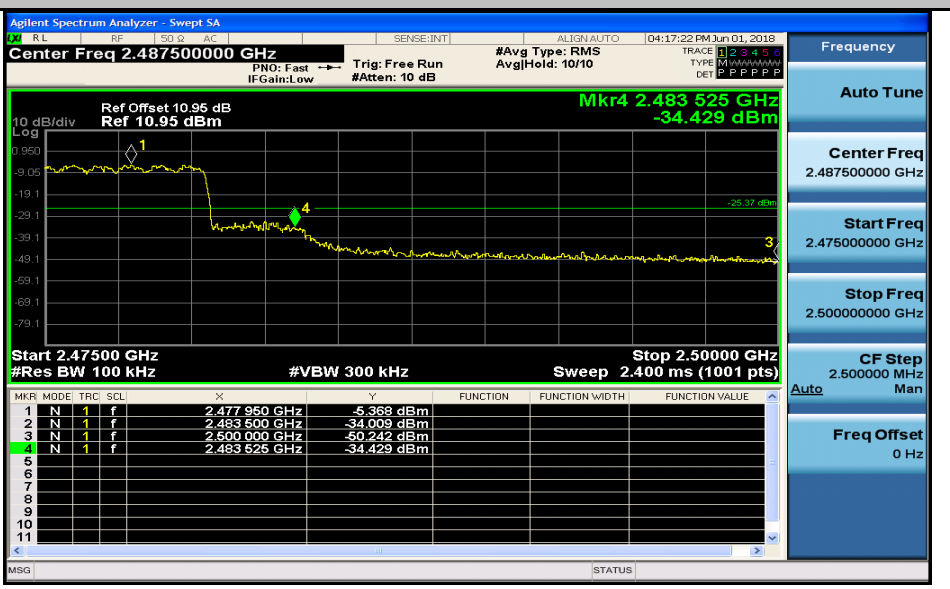
Band-edge for RF Conducted Emissions_2DH5_2402_Hopping On



Band-edge for RF Conducted Emissions_2DH5_2480_Hopping Off



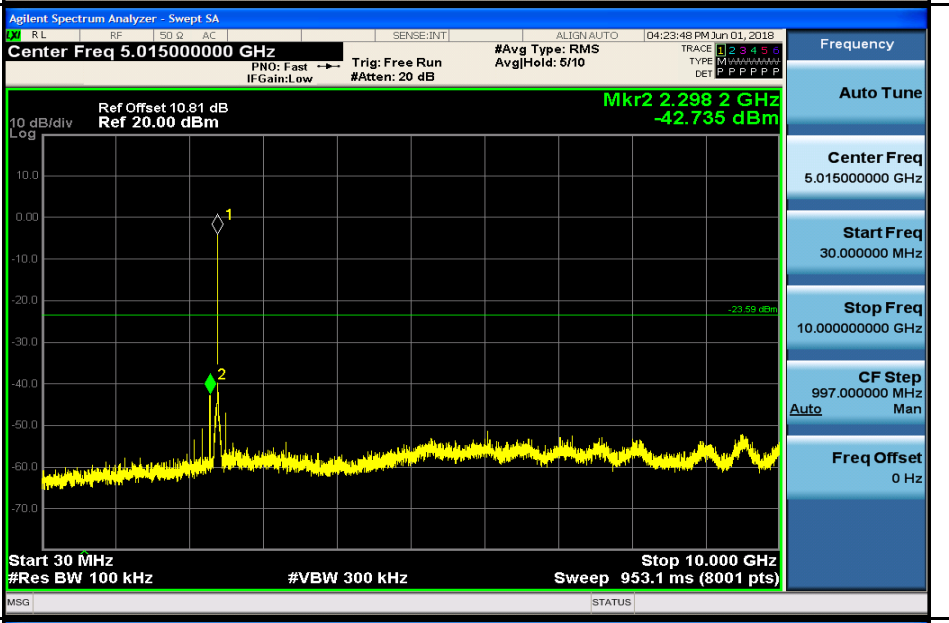
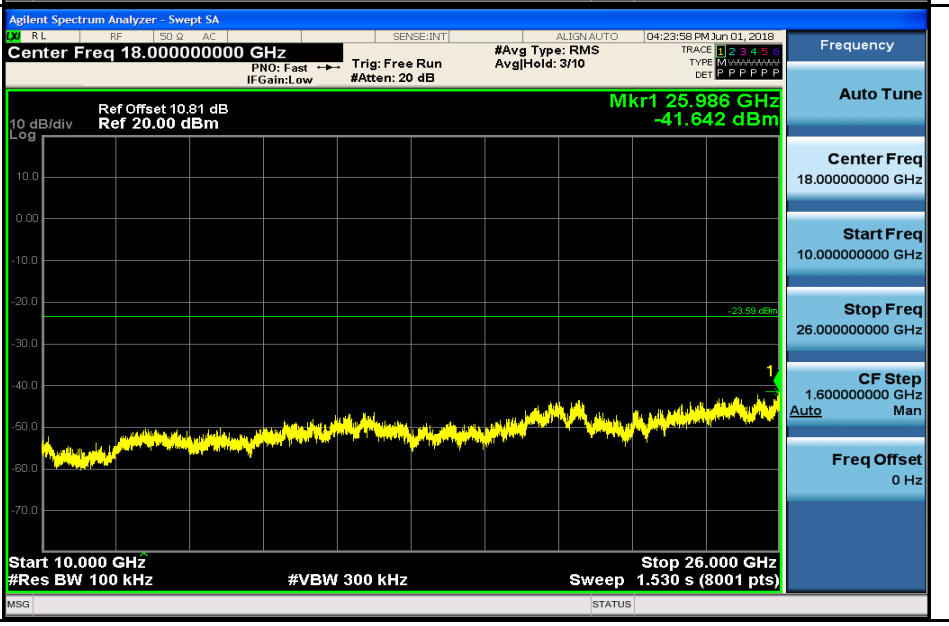
Band-edge for RF Conducted Emissions_2DH5_2480_Hopping On



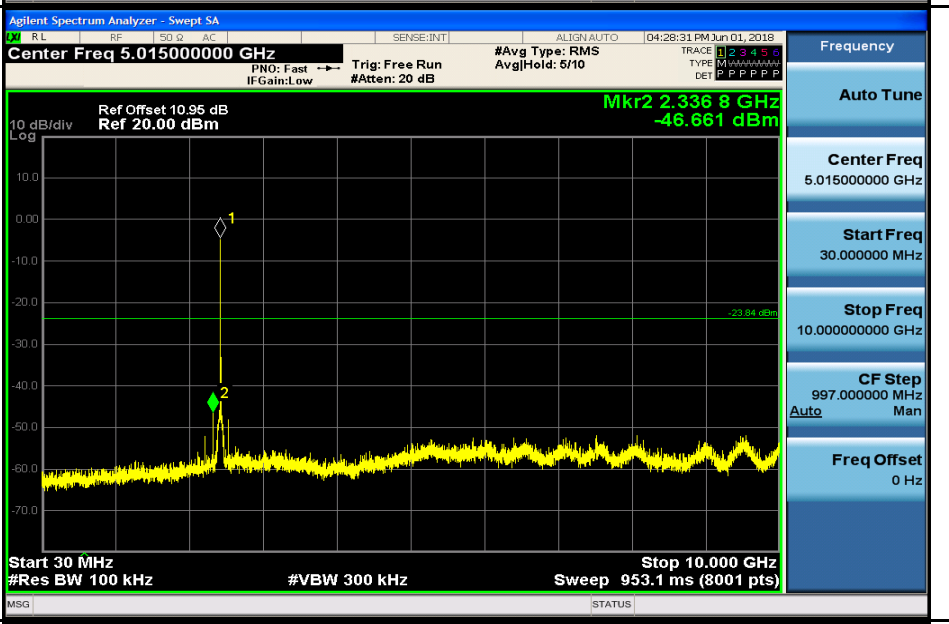
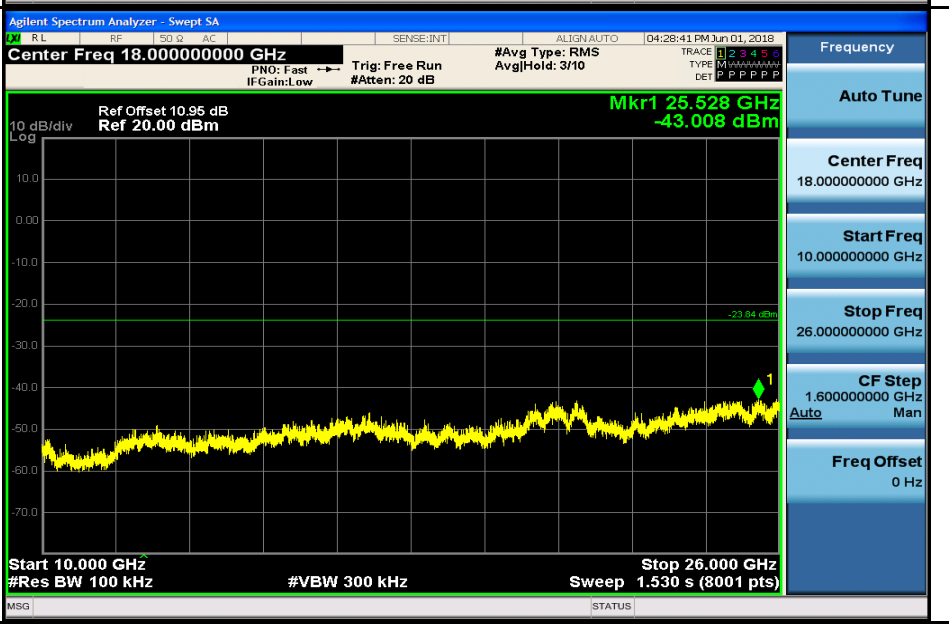
8.RF Conducted Spurious Emissions

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
DH5	2402	30	10000	100	300	-3.59	-42.74	<-23.59	PASS
DH5	2402	10000	26000	100	300	-3.594	-41.642	<-23.594	PASS
DH5	2441	30	10000	100	300	-3.84	-46.66	<-23.84	PASS
DH5	2441	10000	26000	100	300	-3.835	-43.008	<-23.835	PASS
DH5	2480	30	10000	100	300	-4.55	-48.75	<-24.55	PASS
DH5	2480	10000	26000	100	300	-4.547	-41.804	<-24.547	PASS
2DH5	2402	30	10000	100	300	-4.61	-44.98	<-24.61	PASS
2DH5	2402	10000	26000	100	300	-4.607	-42.278	<-24.607	PASS
2DH5	2441	30	10000	100	300	-4.98	-48.95	<-24.98	PASS
2DH5	2441	10000	26000	100	300	-4.978	-42.007	<-24.978	PASS
2DH5	2480	30	10000	100	300	-5.59	-51.79	<-25.59	PASS
2DH5	2480	10000	26000	100	300	-5.591	-42.360	<-25.591	PASS

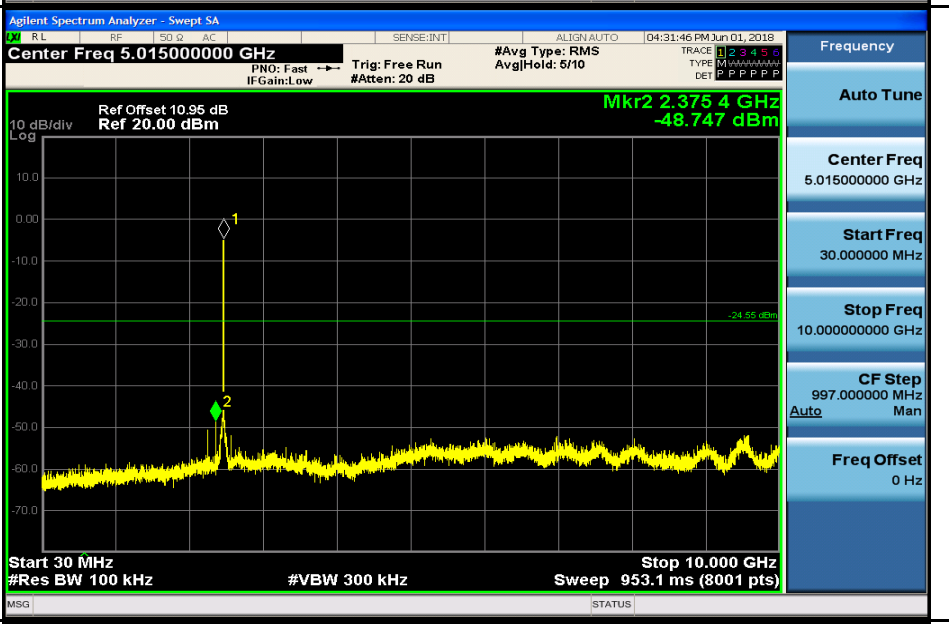
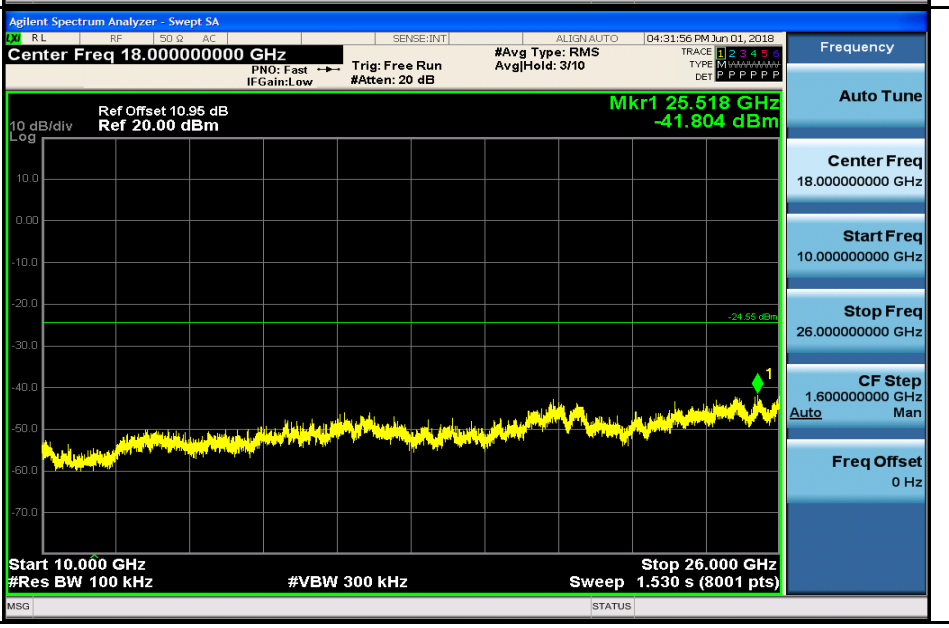
RF Conducted Spurious Emissions_DH5_2402

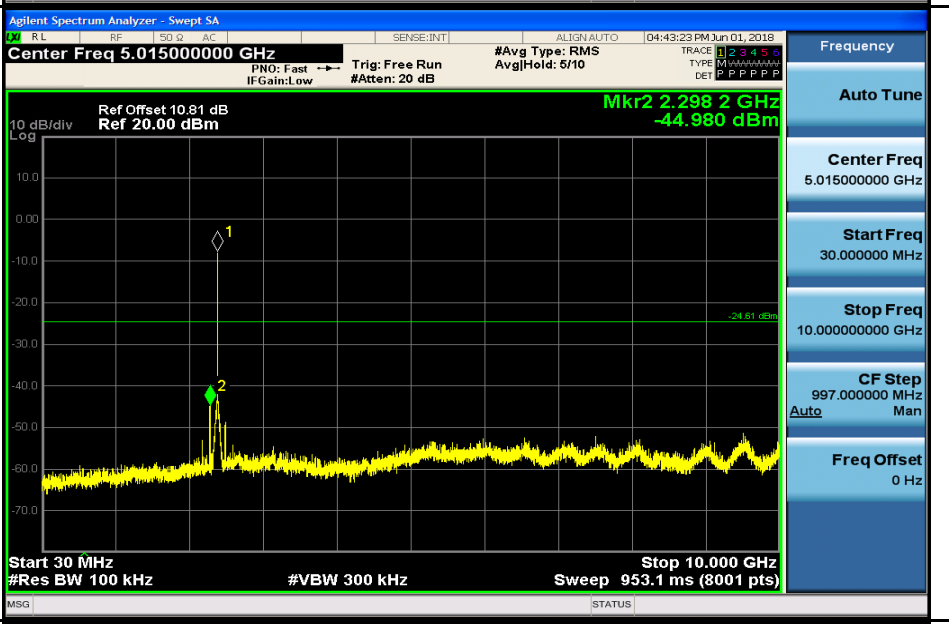
RF Conducted Spurious Emissions_DH5_2441

RF Conducted Spurious Emissions_DH5_2480

RF Conducted Spurious Emissions_2DH5_2402

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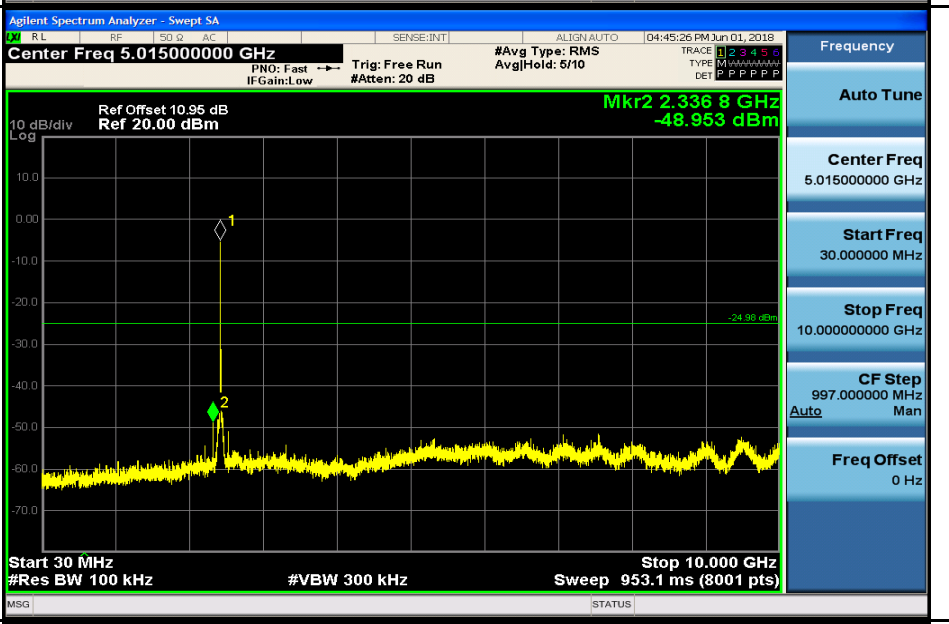
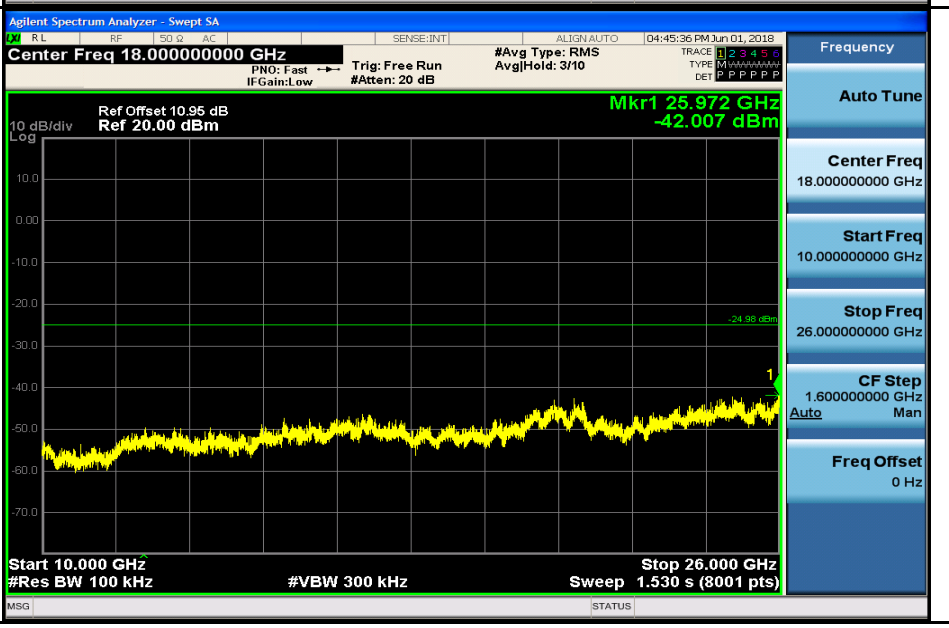

RF Conducted Spurious Emissions_2DH5_2480