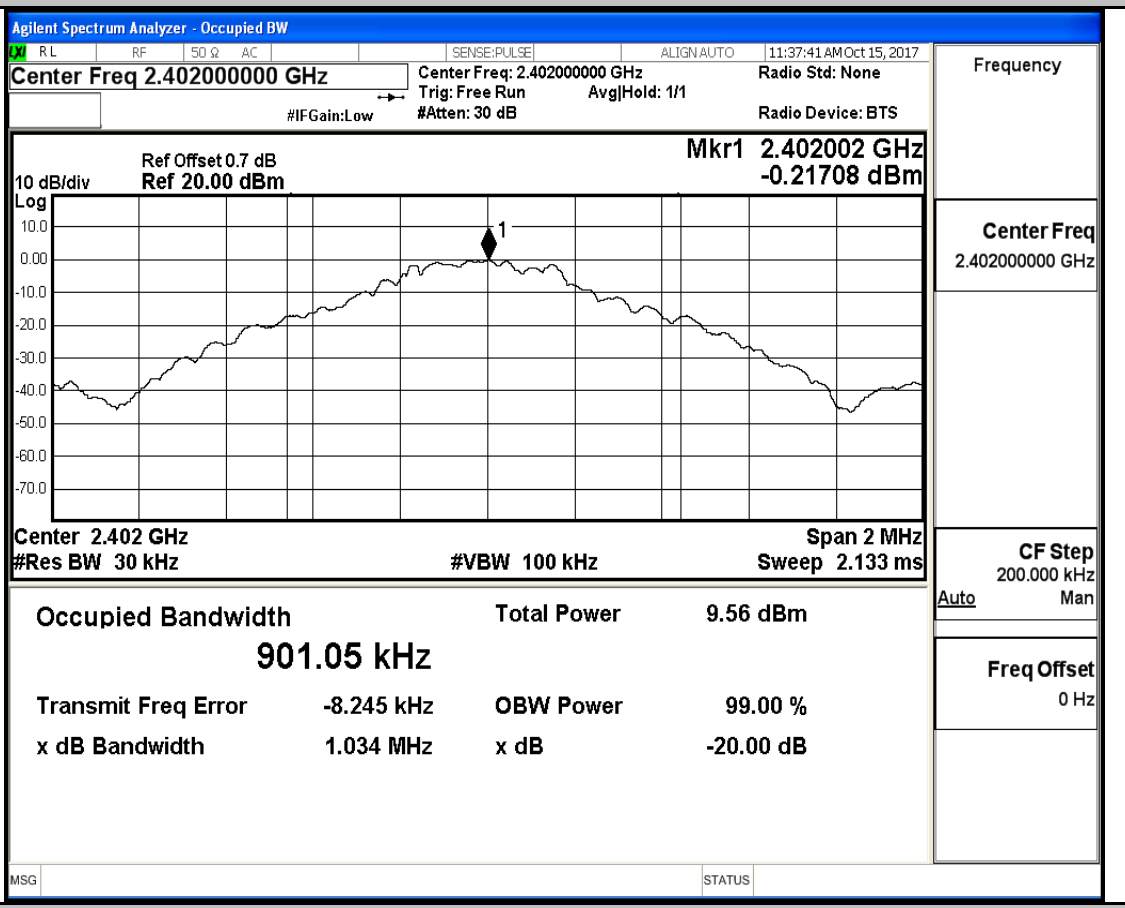
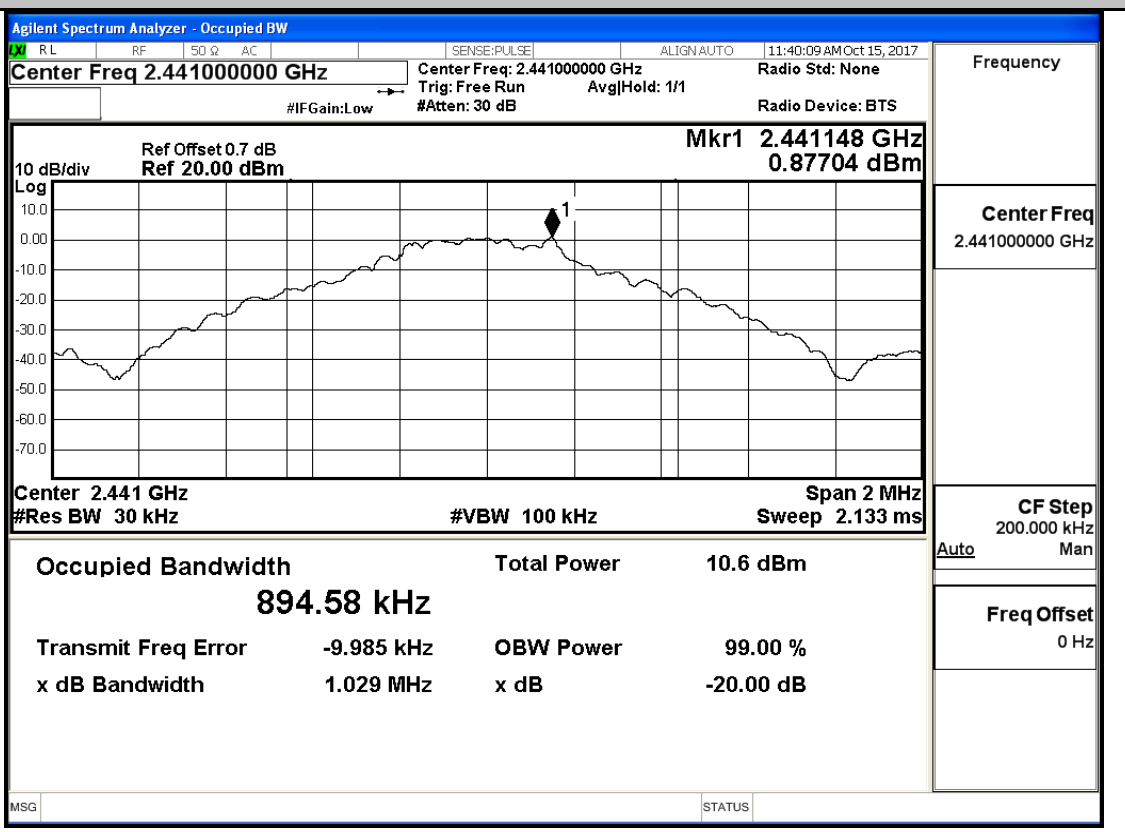
1.20 dB Bandwidth

Test Mode	Test Channel	EBW[MHz]	Limit[MHz]	Verdict
DH5	2402	1.034	---	PASS
DH5	2441	1.029	---	PASS
DH5	2480	0.977	---	PASS
2DH5	2402	1.291	---	PASS
2DH5	2441	1.291	---	PASS
2DH5	2480	1.290	---	PASS
3DH5	2402	1.297	---	PASS
3DH5	2441	1.294	---	PASS
3DH5	2480	1.292	---	PASS

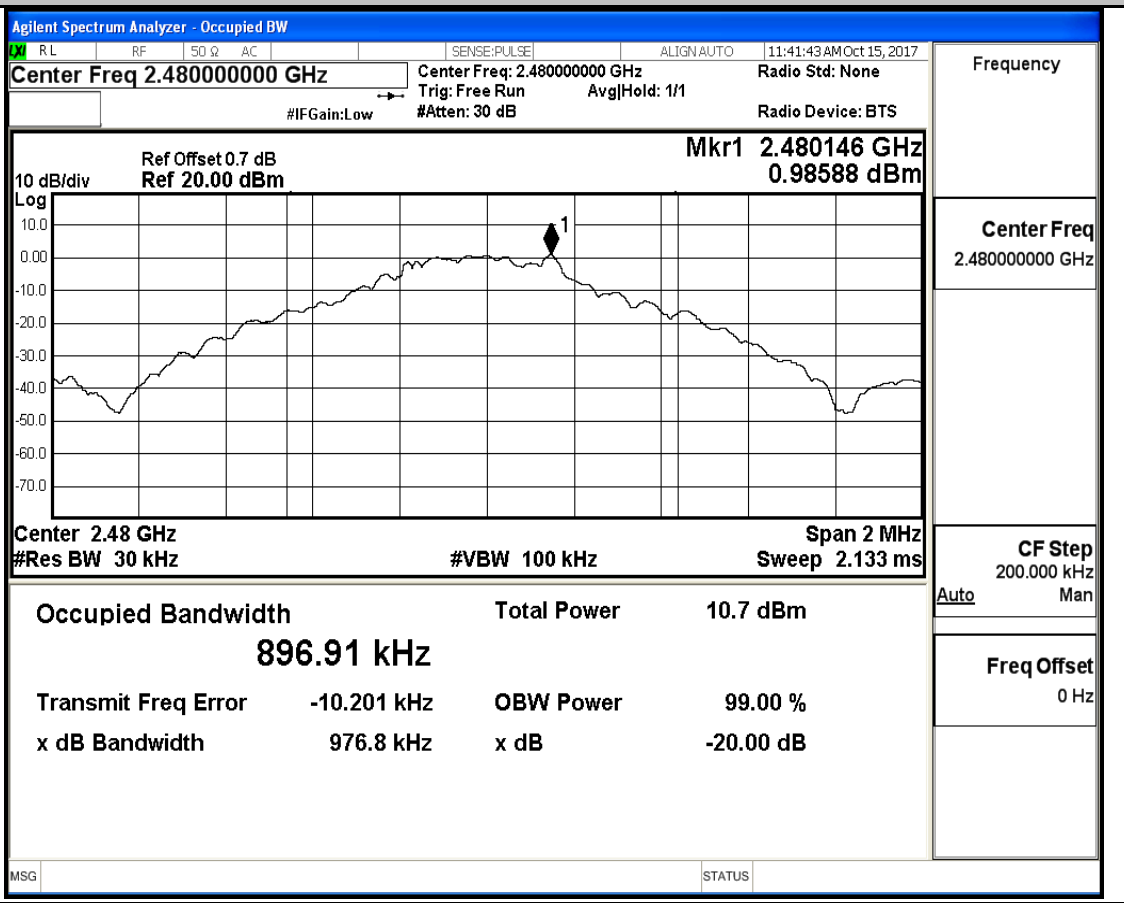
20 dB Bandwidth_DH5_2402



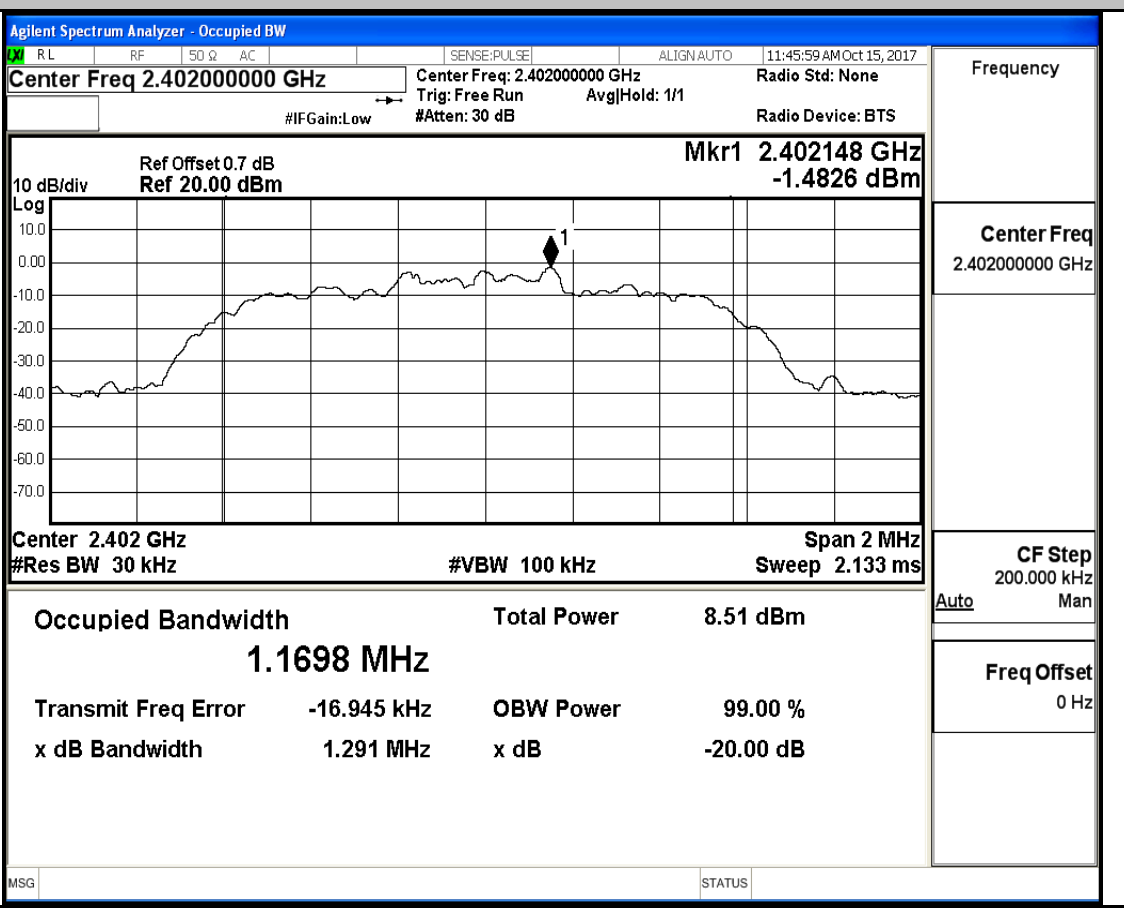
20 dB Bandwidth_DH5_2441



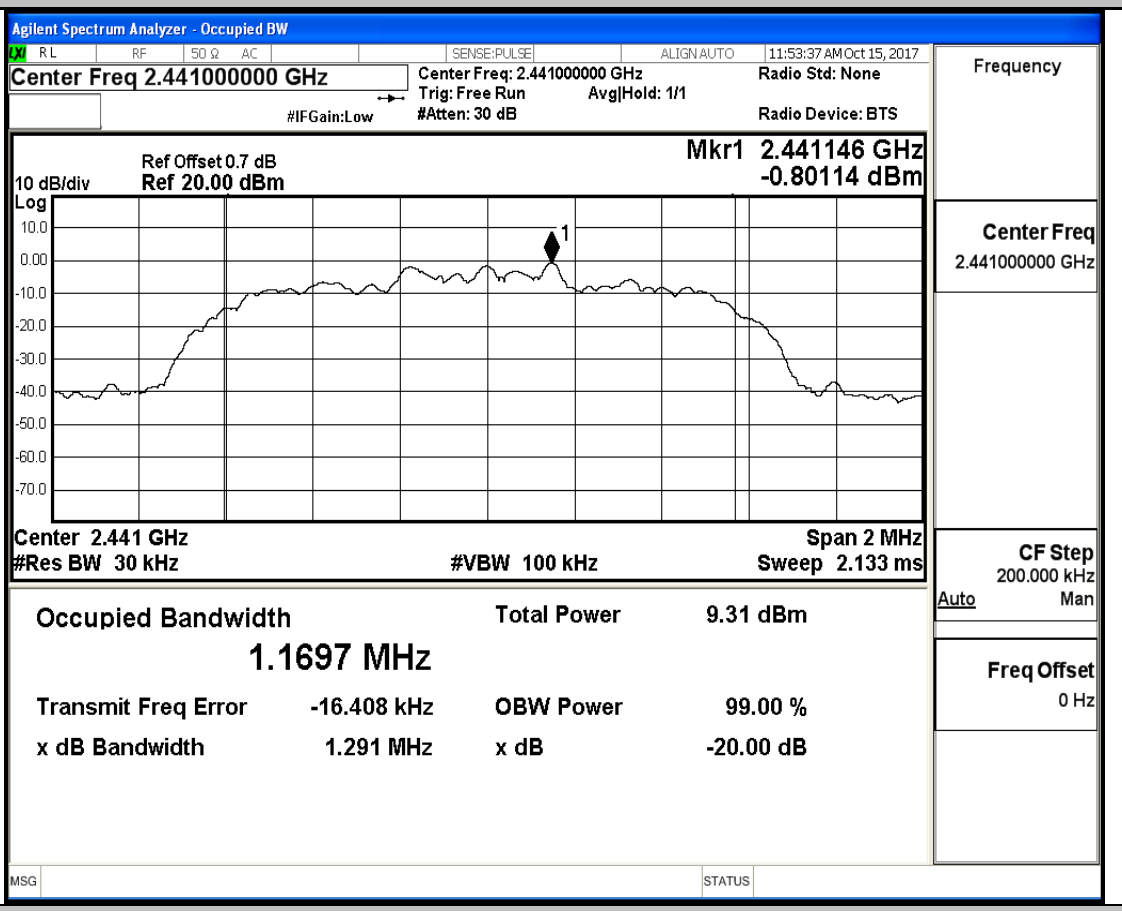
20 dB Bandwidth_DH5_2480



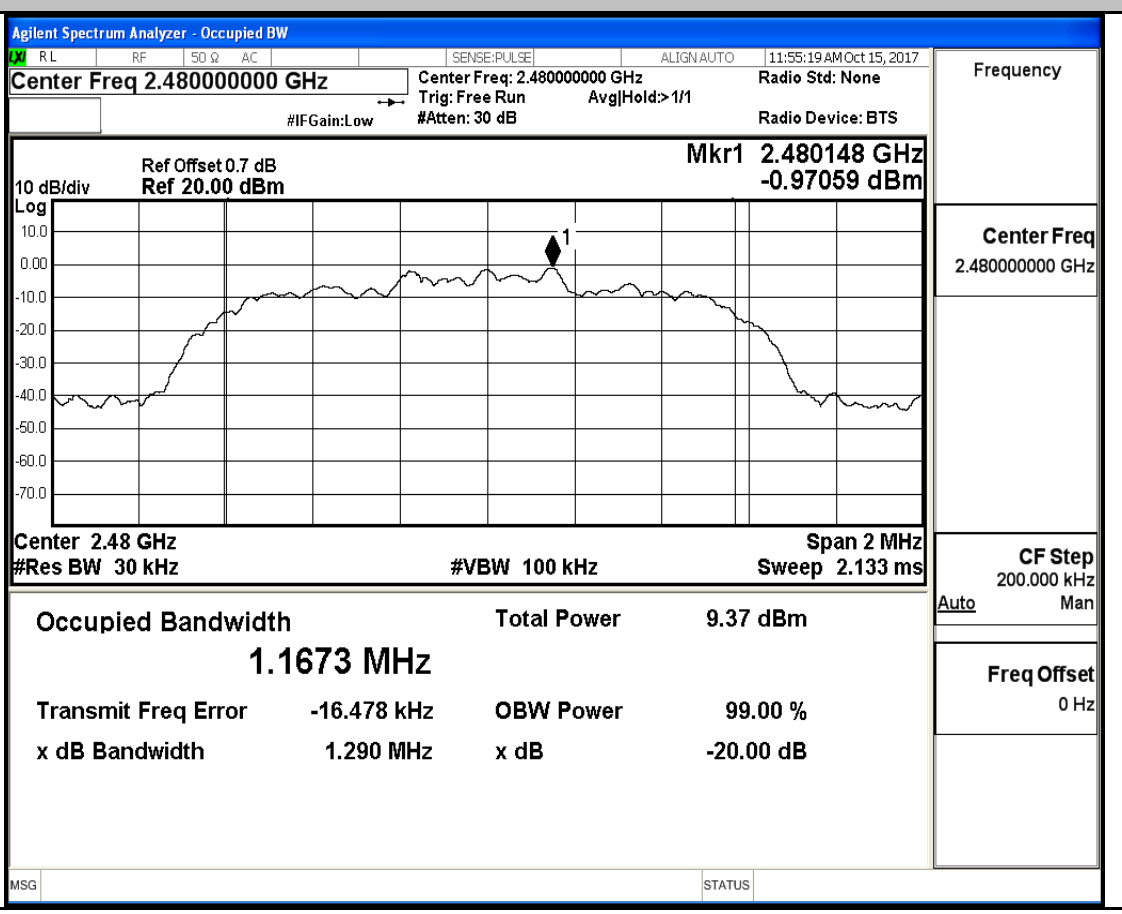
20 dB Bandwidth_2DH5_2402



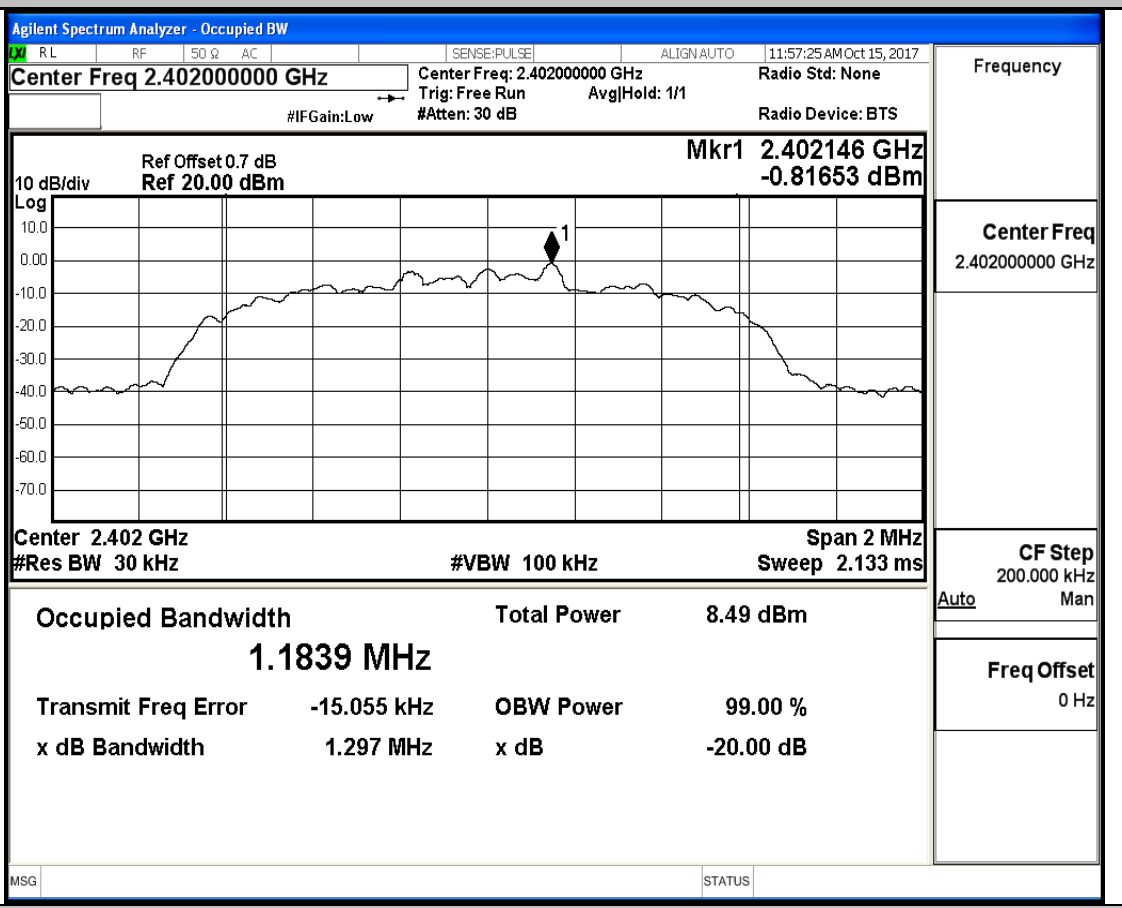
20 dB Bandwidth_2DH5_2441



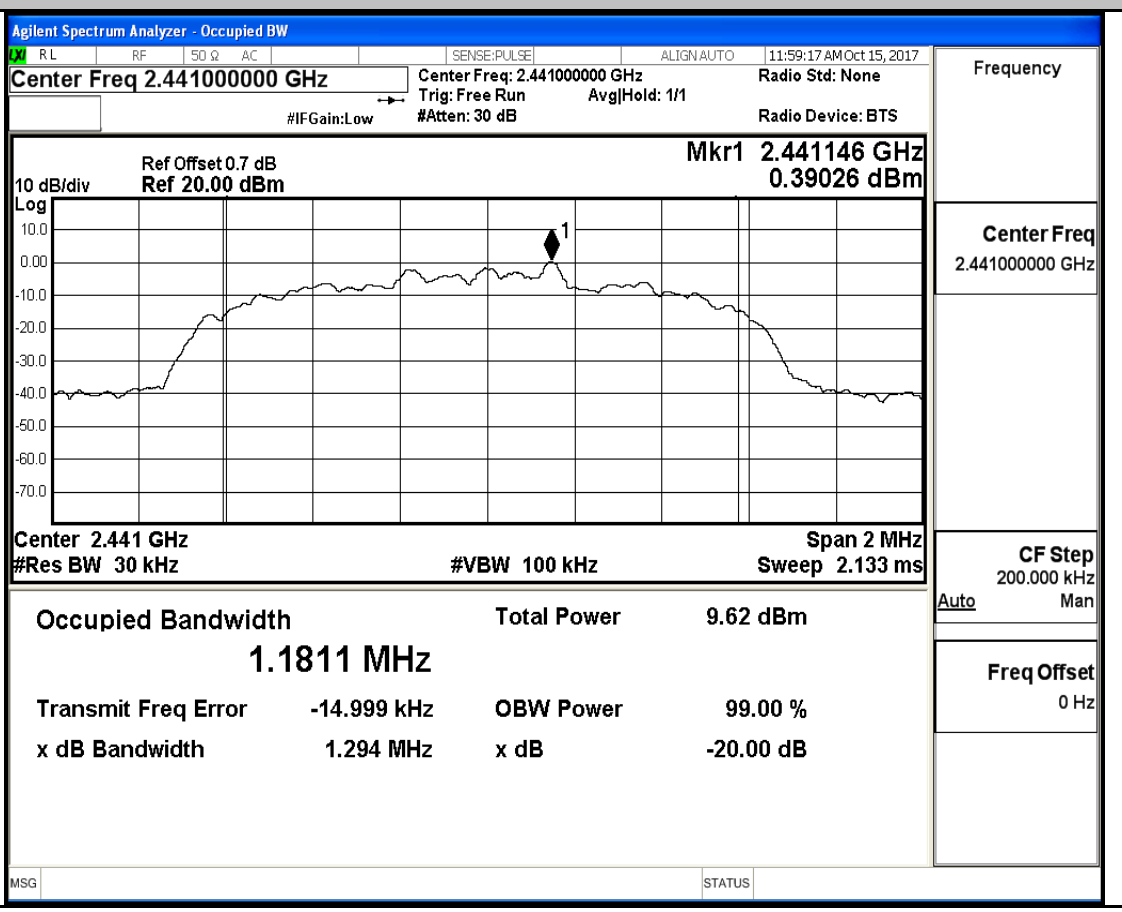
20 dB Bandwidth_2DH5_2480



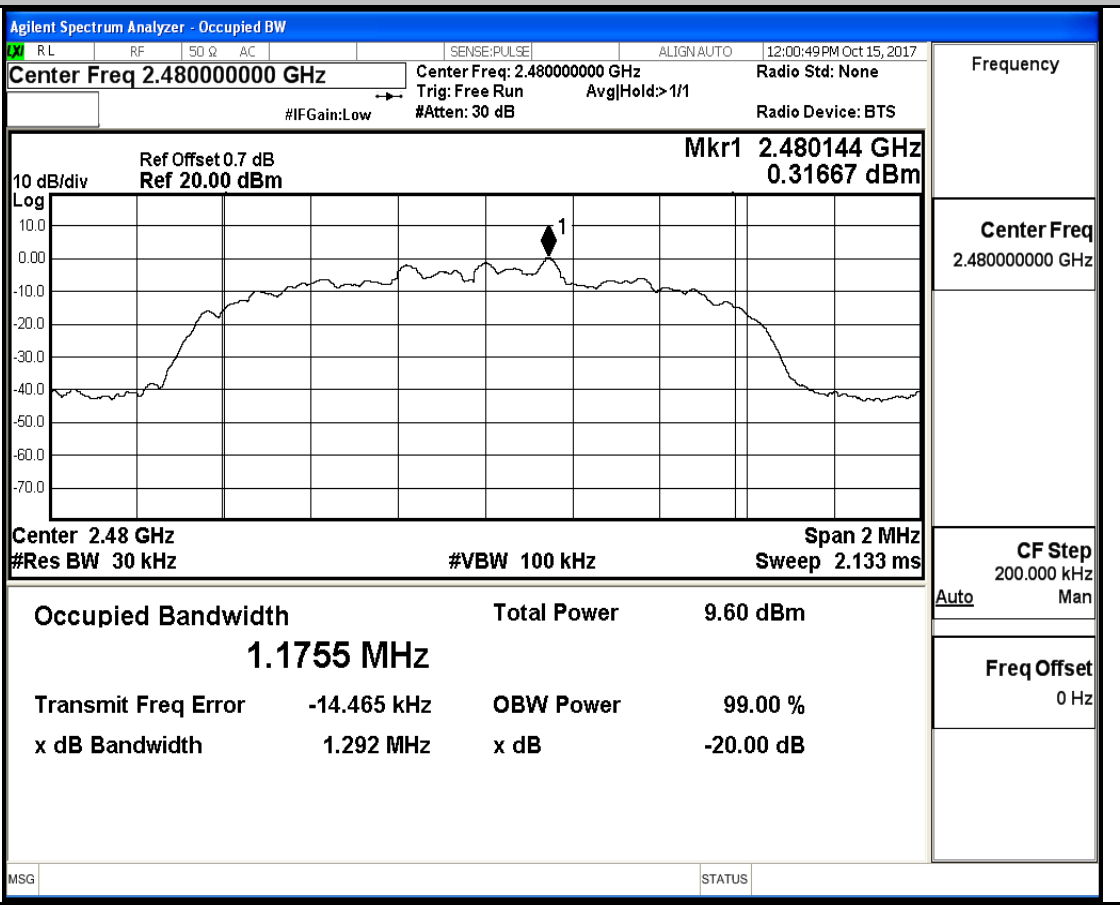
20 dB Bandwidth_3DH5_2402



20 dB Bandwidth_3DH5_2441



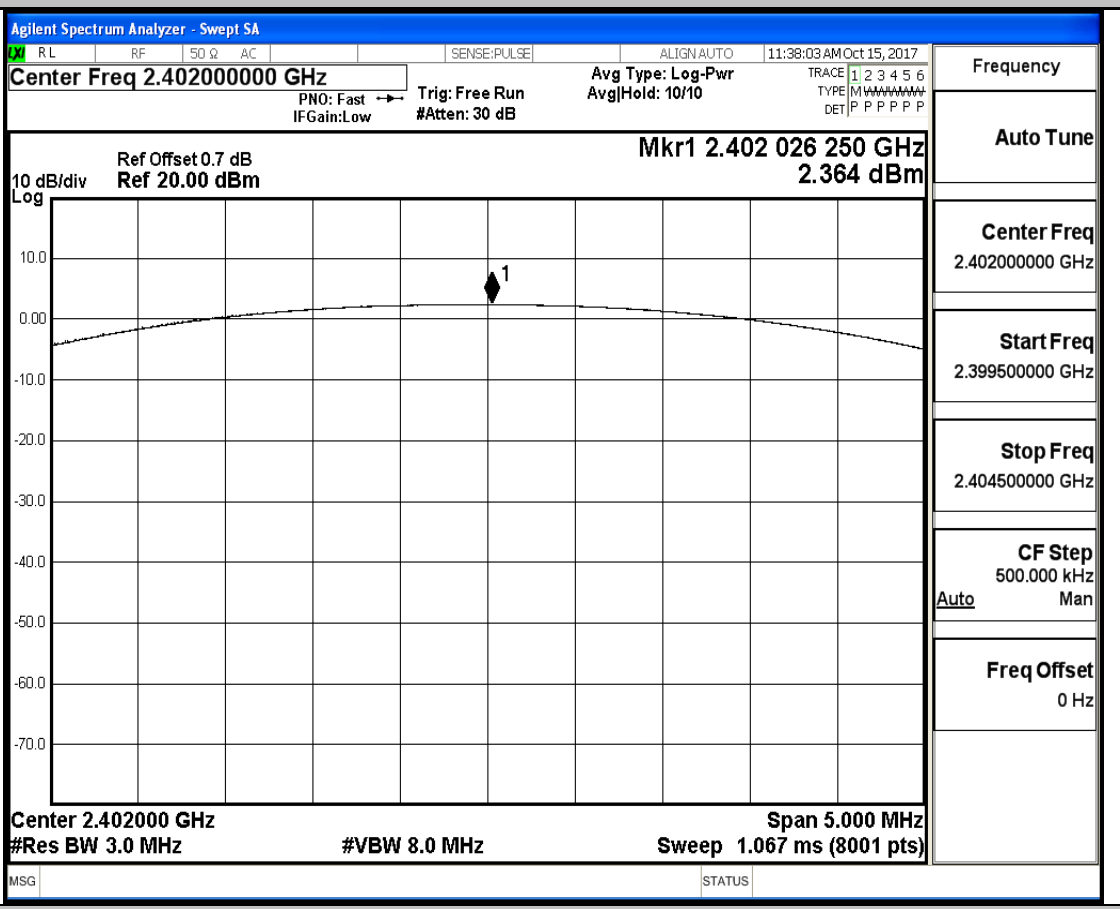
20 dB Bandwidth_3DH5_2480



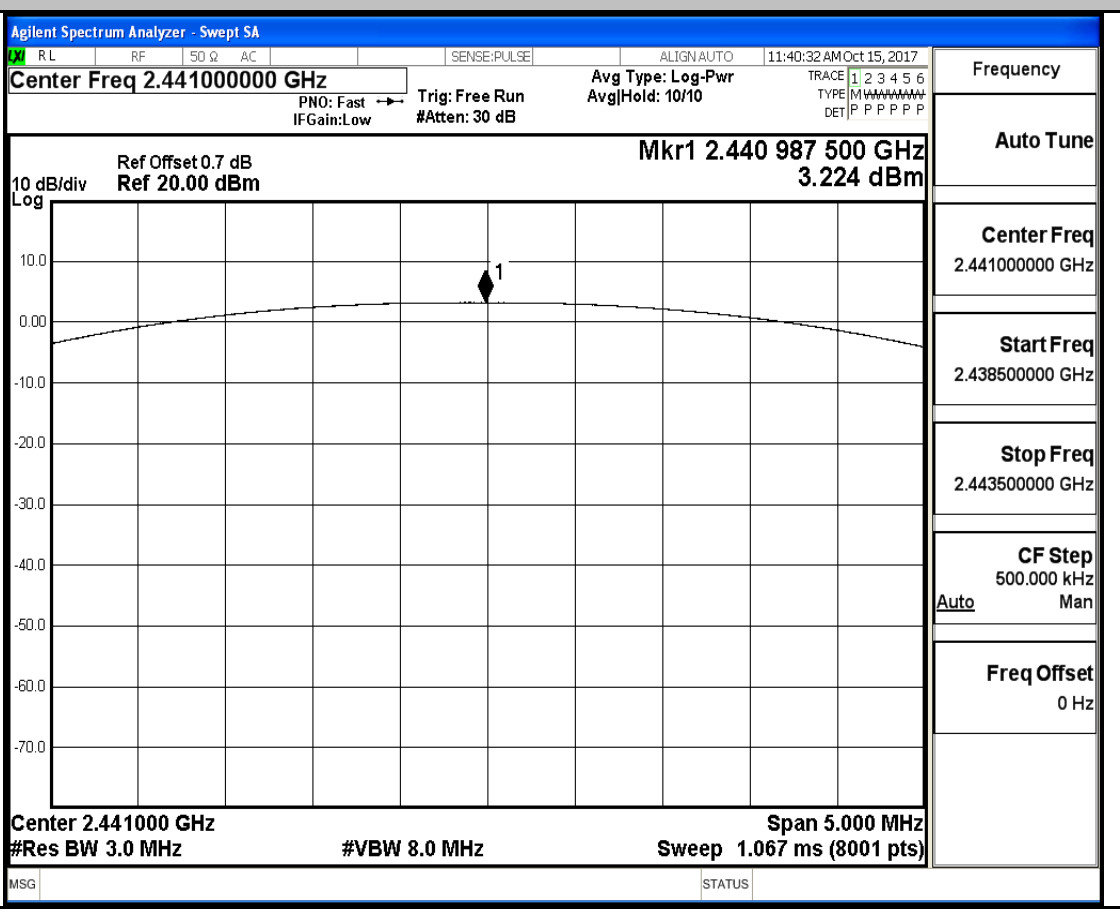
2.Conducted Peak Output Power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
DH5	2402	2.364	30	PASS
DH5	2441	3.224	30	PASS
DH5	2480	3.322	30	PASS
2DH5	2402	2.15	30	PASS
2DH5	2441	3.038	30	PASS
2DH5	2480	3.152	30	PASS
3DH5	2402	2.496	30	PASS
3DH5	2441	3.467	30	PASS
3DH5	2480	3.548	30	PASS

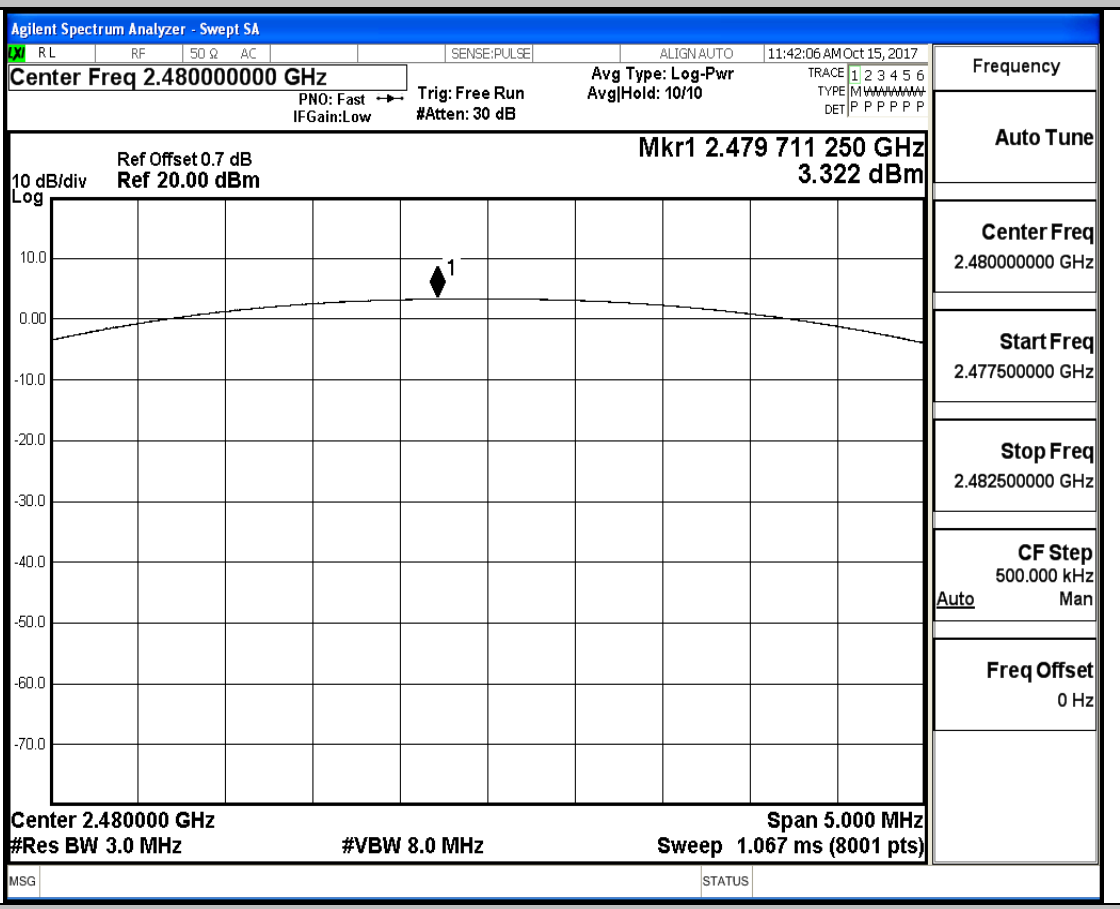
Conducted Peak Output Power_DH5_2402



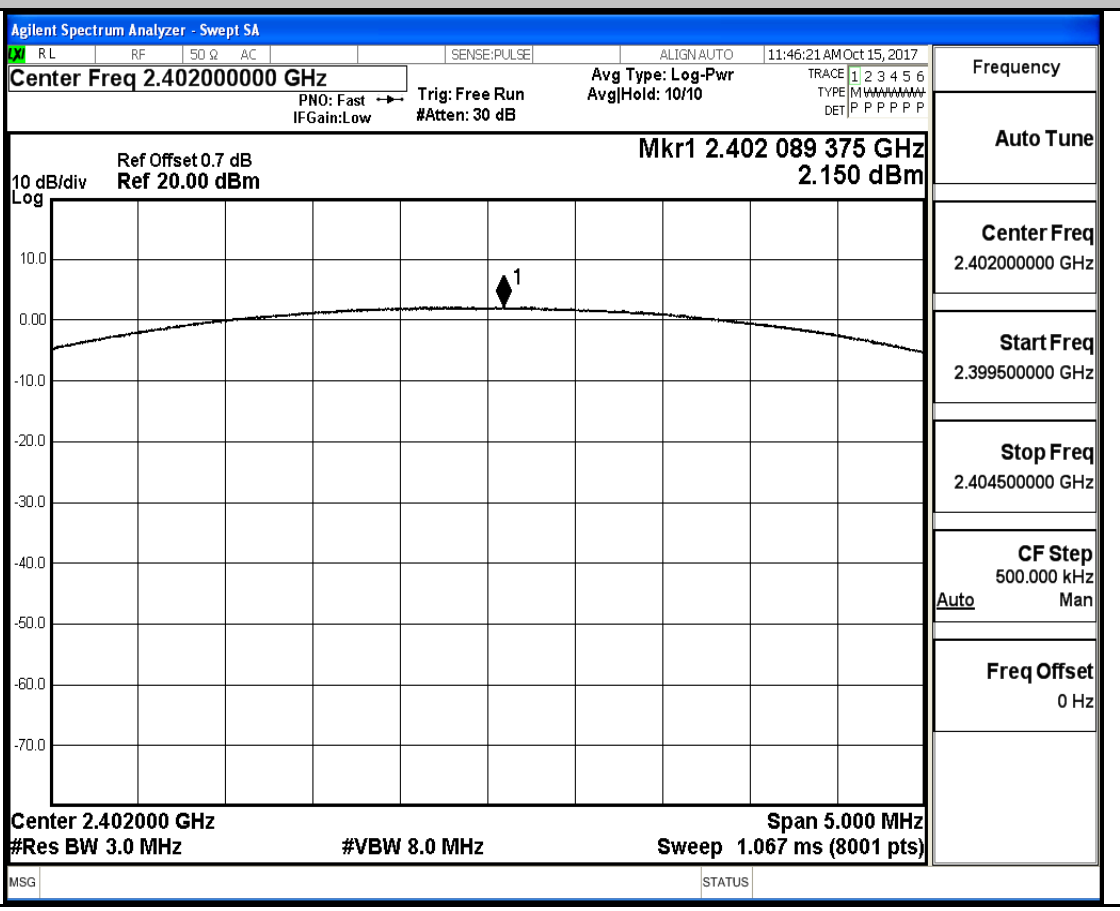
Conducted Peak Output Power_DH5_2441



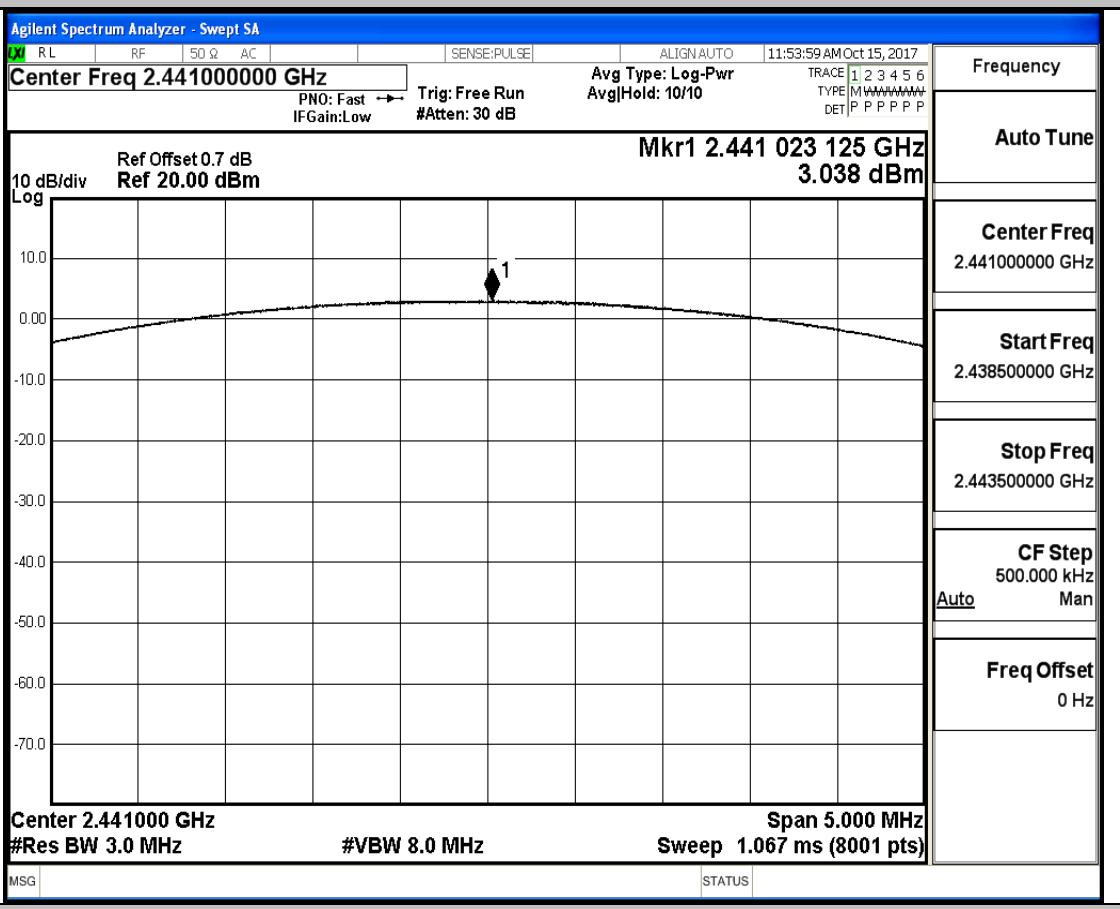
Conducted Peak Output Power_DH5_2480



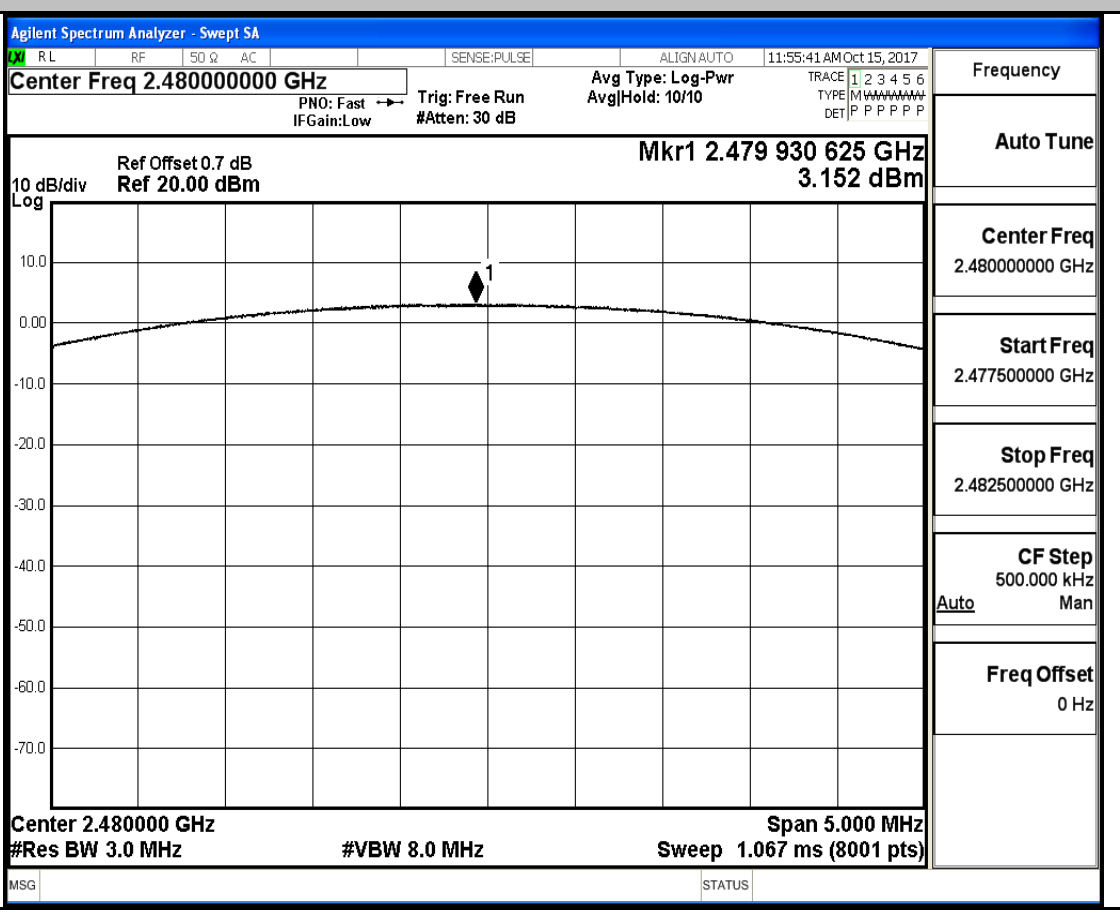
Conducted Peak Output Power_2DH5_2402



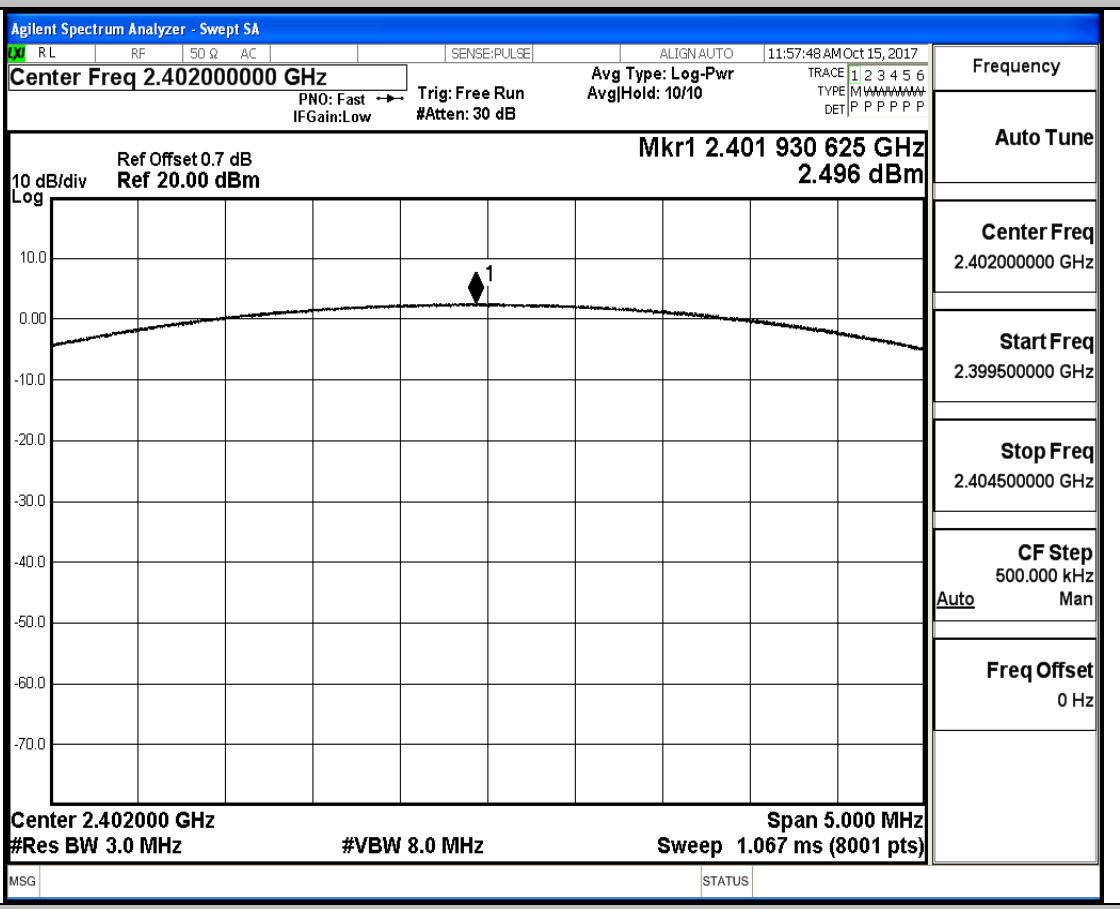
Conducted Peak Output Power_2DH5_2441



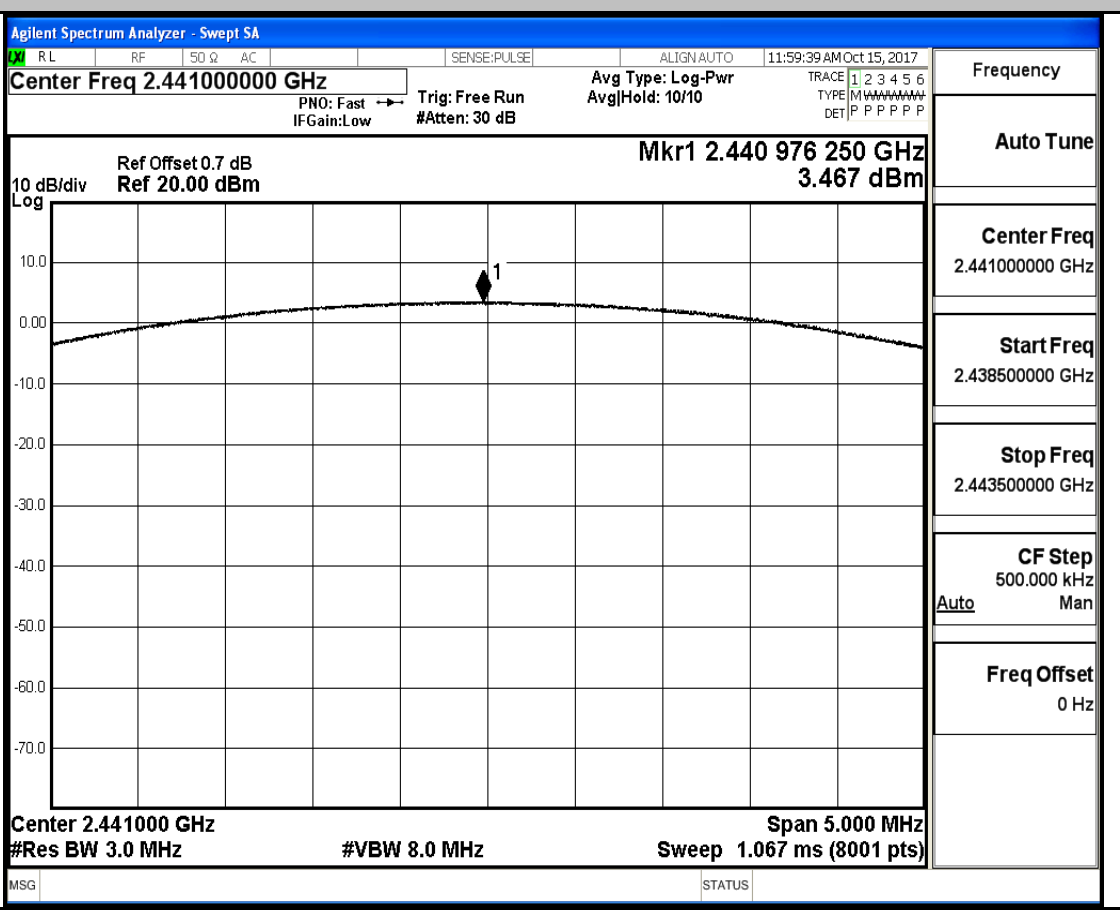
Conducted Peak Output Power_2DH5_2480



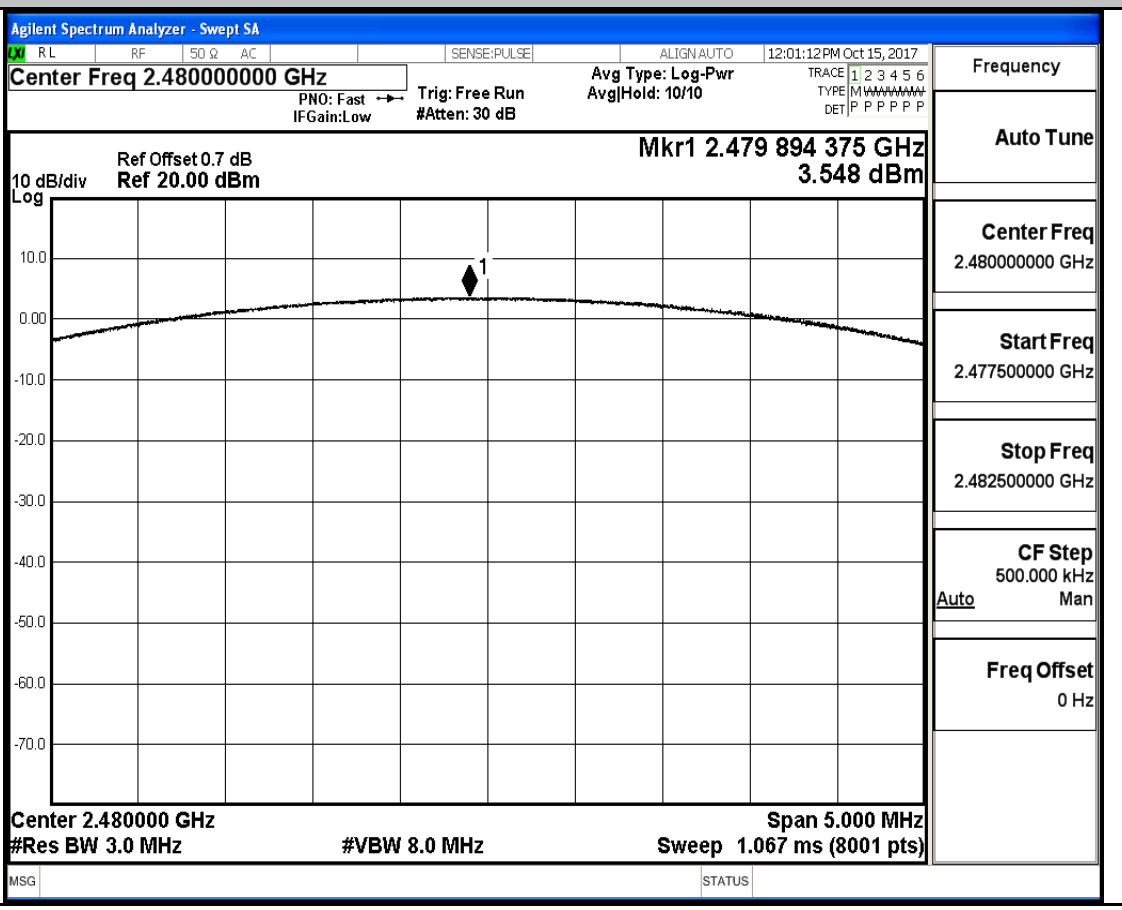
Conducted Peak Output Power_3DH5_2402



Conducted Peak Output Power_3DH5_2441



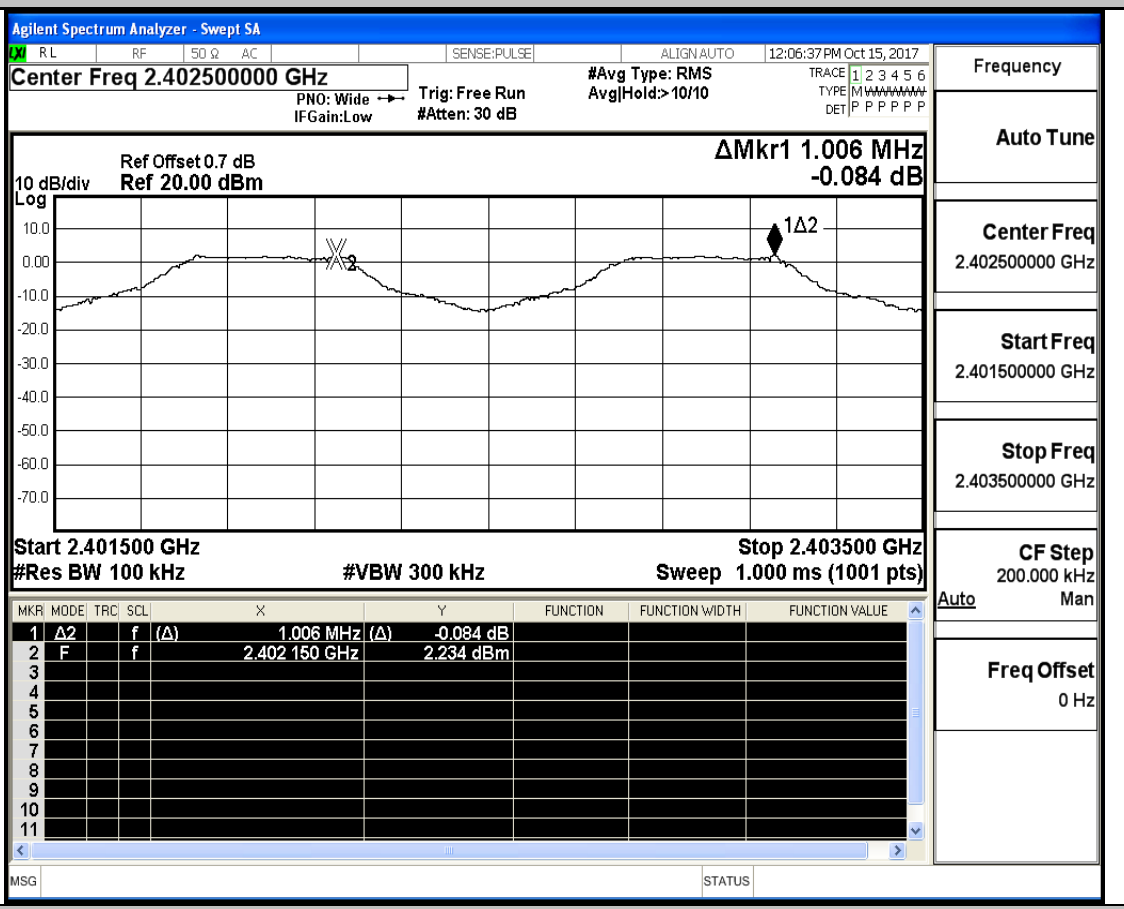
Conducted Peak Output Power_3DH5_2480



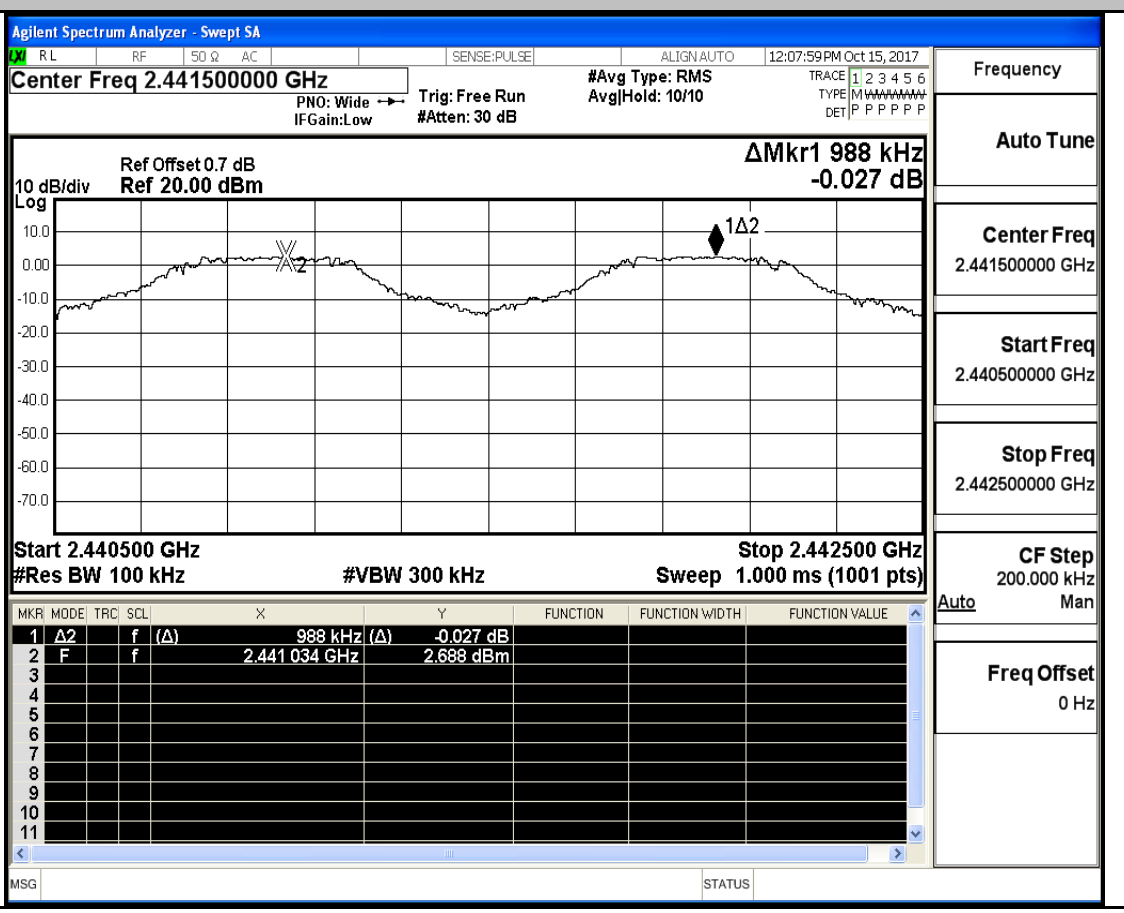
3.Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	2402	1.006	0.689	PASS
DH5	2441	0.988	0.686	PASS
DH5	2480	1.132	0.651	PASS
2DH5	2441	0.962	0.861	PASS
2DH5	2480	1.174	0.860	PASS
2DH5	2402	1.136	0.861	PASS
3DH5	2402	1.23	0.865	PASS
3DH5	2441	0.976	0.863	PASS
3DH5	2480	1.186	0.861	PASS

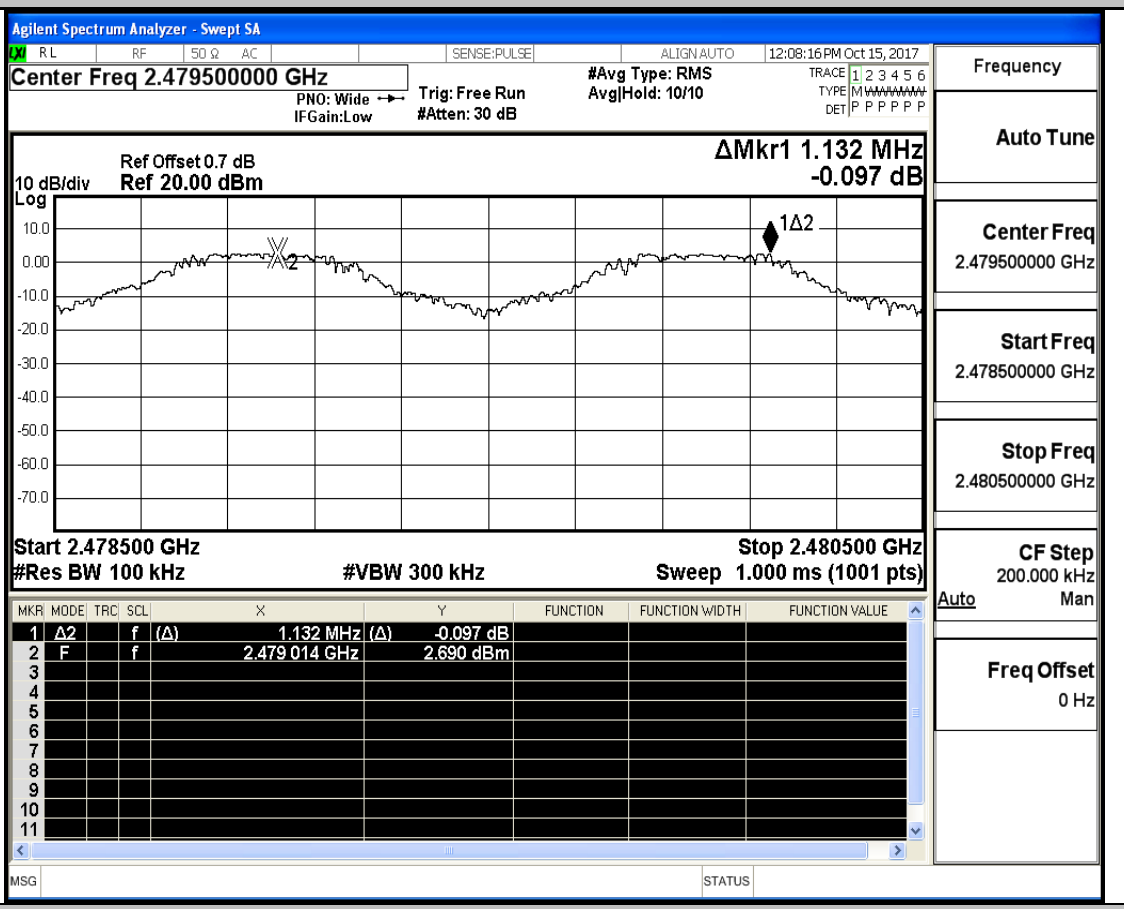
Carrier Frequency Separation_DH5_2402



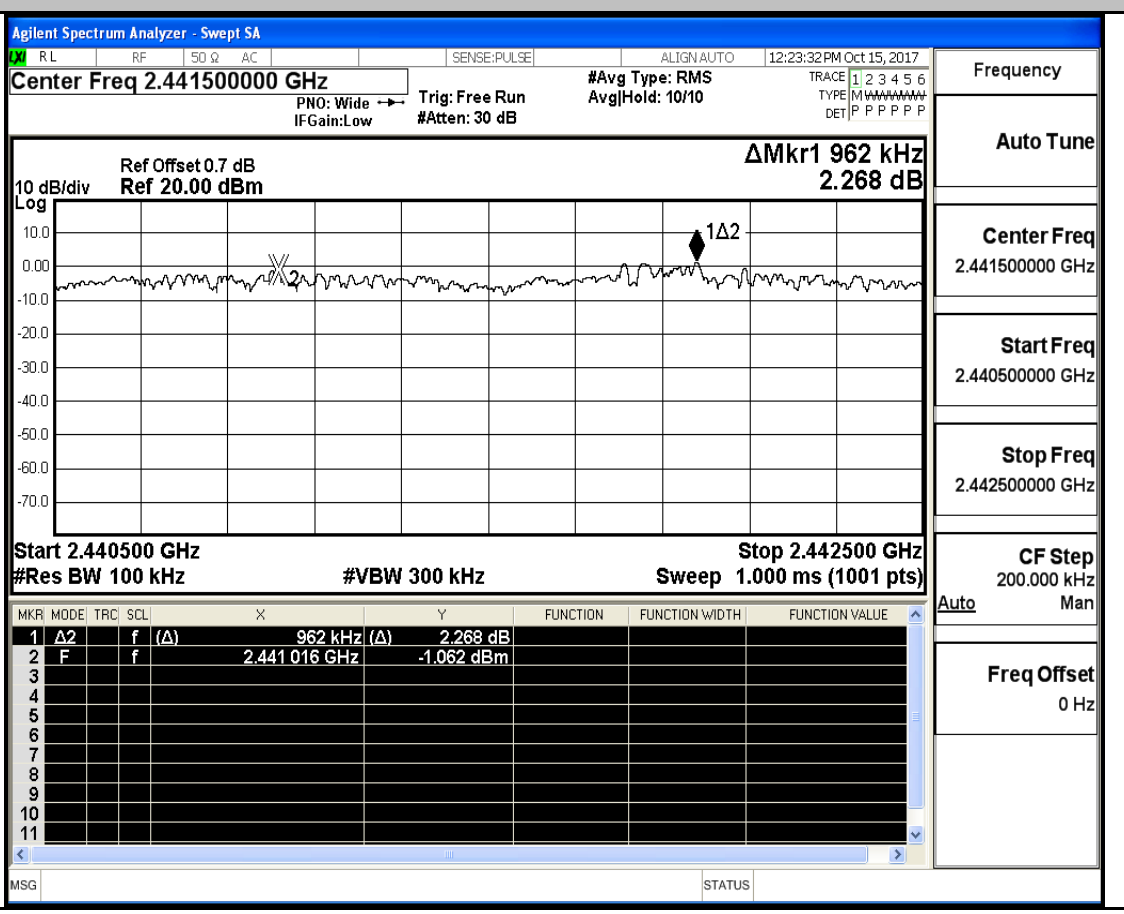
Carrier Frequency Separation_DH5_2441



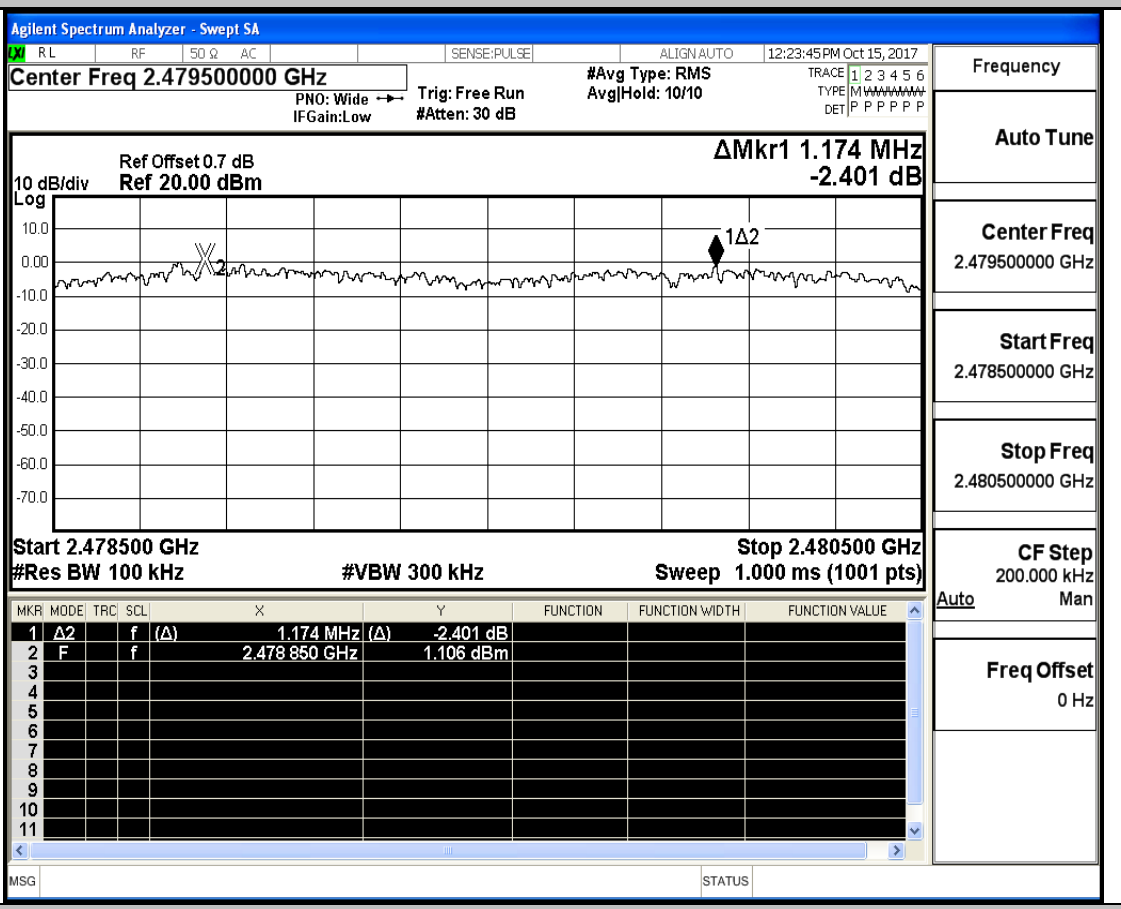
Carrier Frequency Separation_DH5_2480



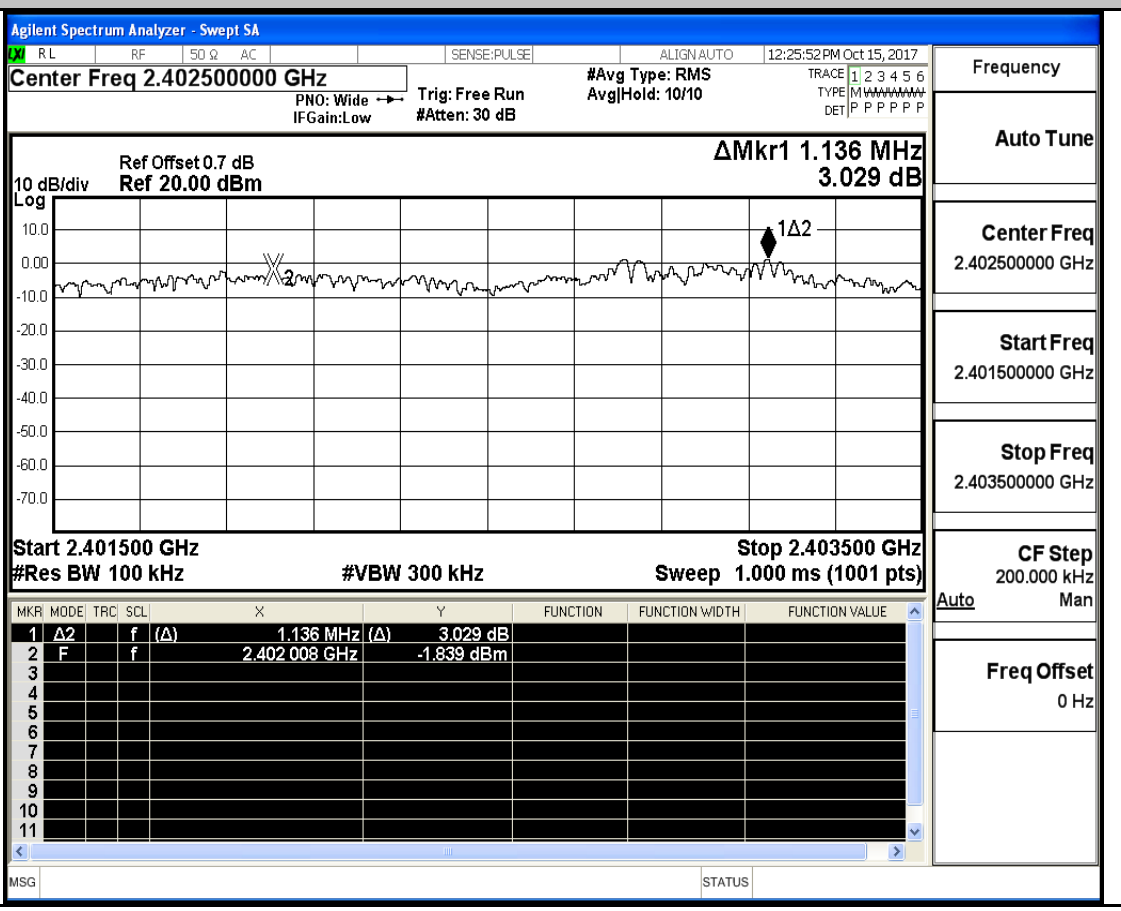
Carrier Frequency Separation_2DH5_2441



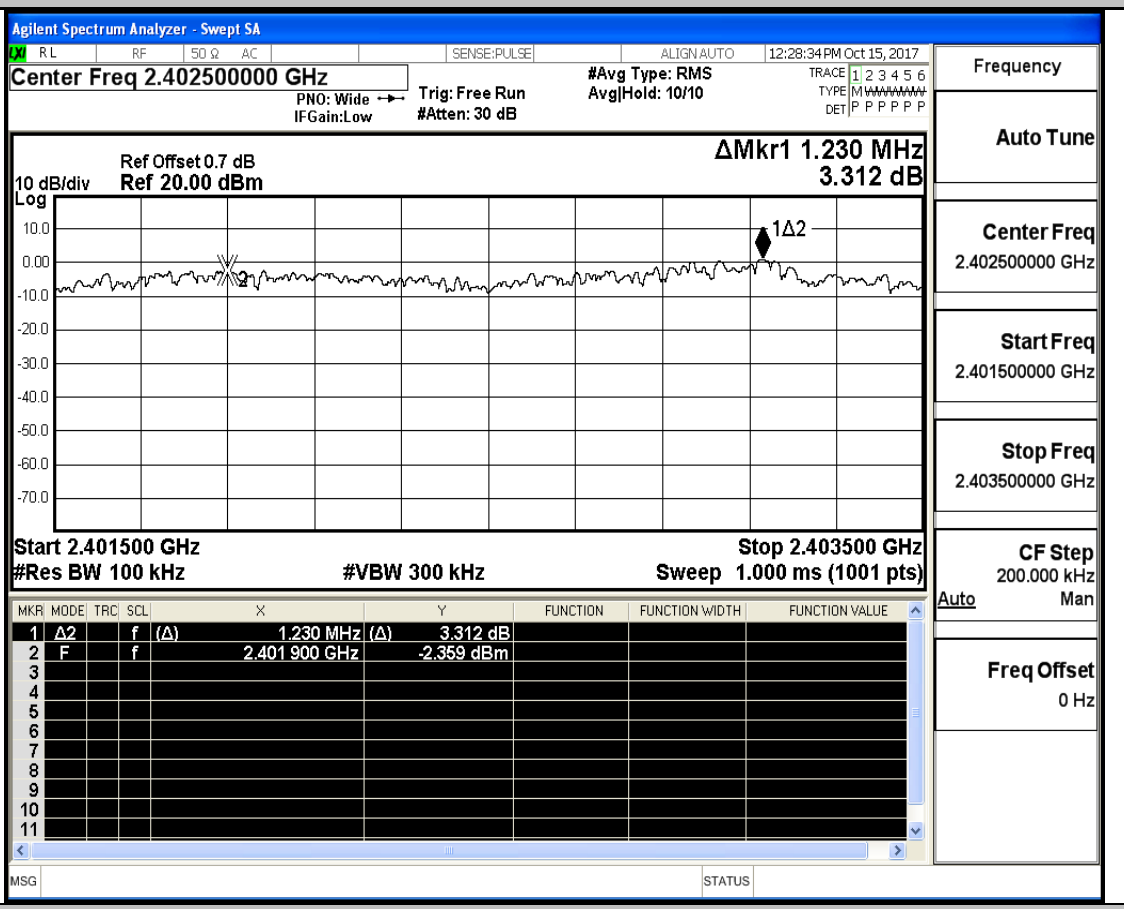
Carrier Frequency Separation_2DH5_2480



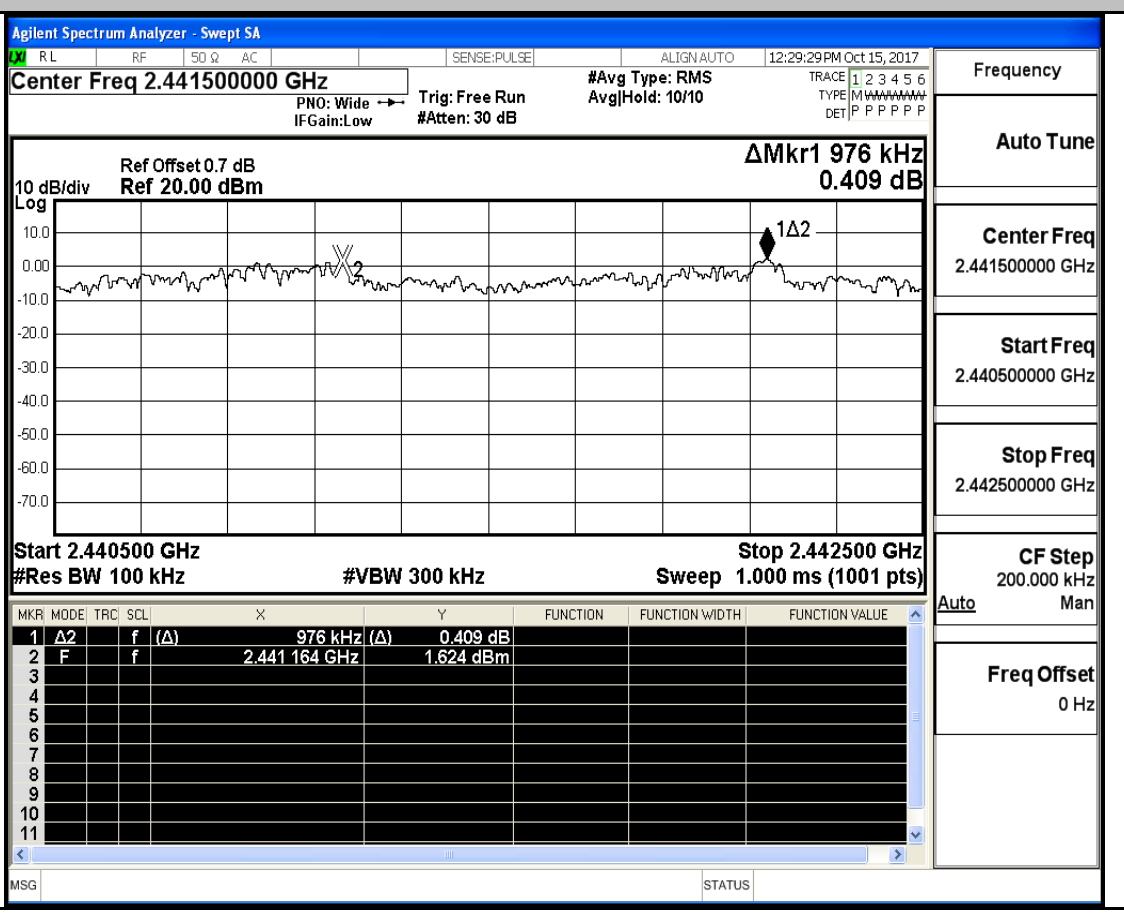
Carrier Frequency Separation_2DH5_2402



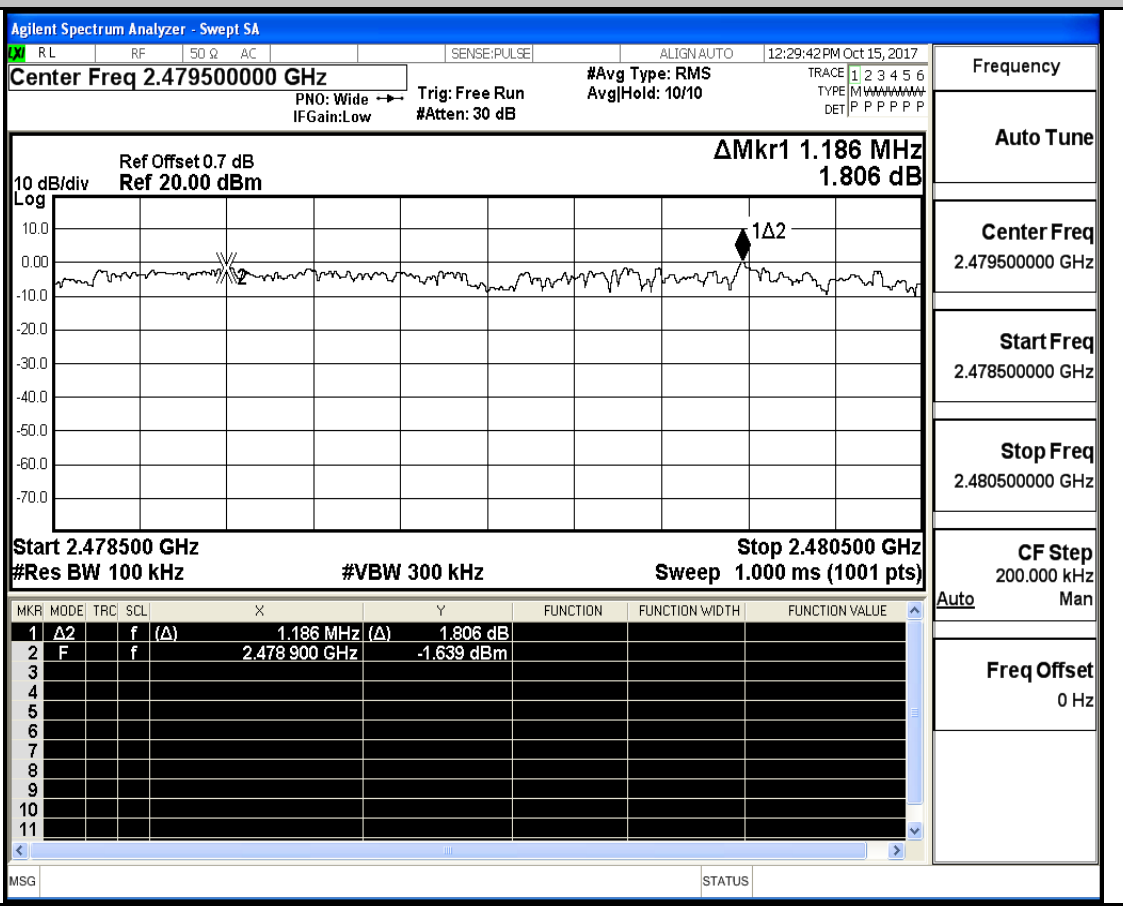
Carrier Frequency Separation_3DH5_2402



Carrier Frequency Separation_3DH5_2441



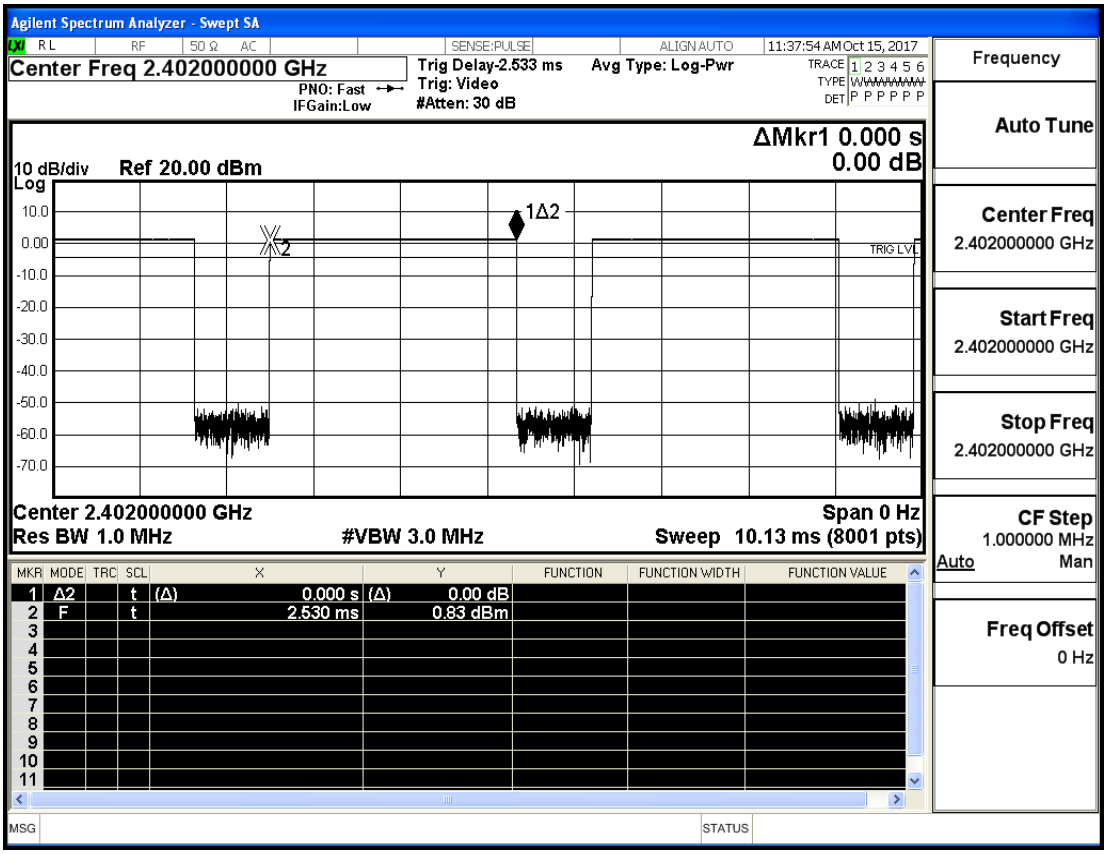
Carrier Frequency Separation_3DH5_2480



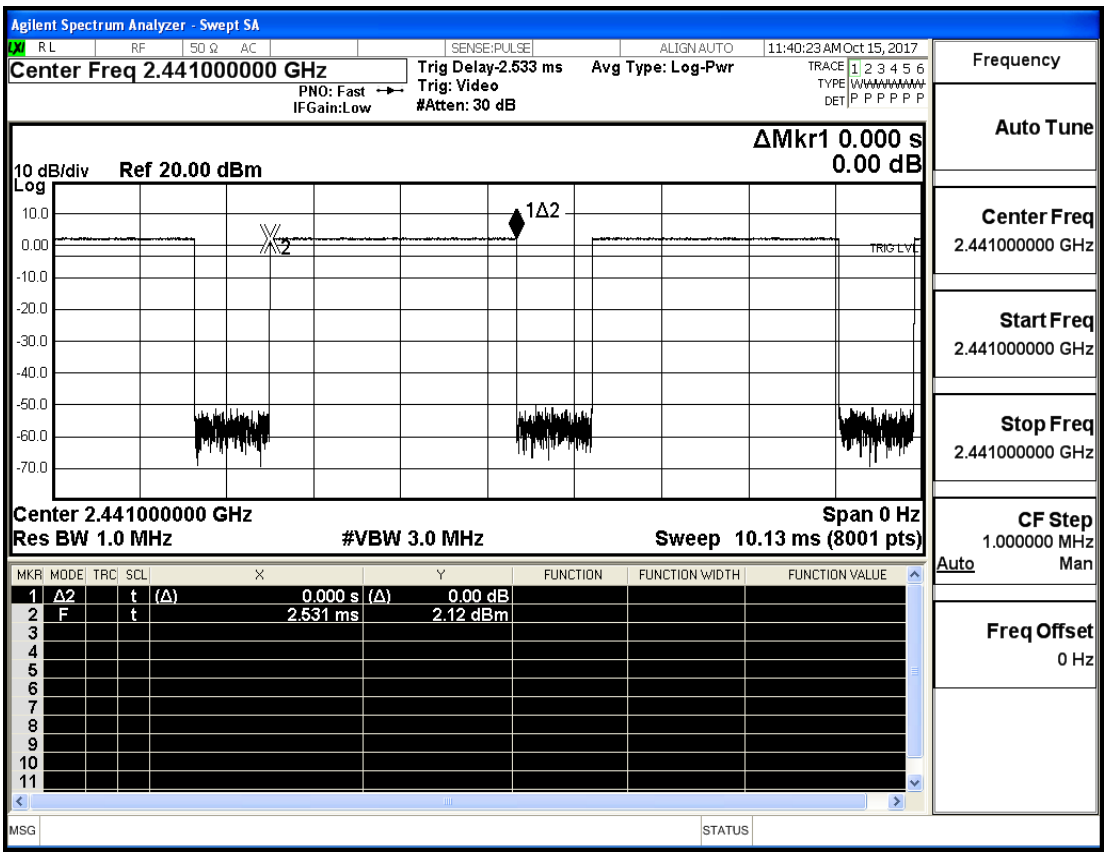
4.Dwell Time

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

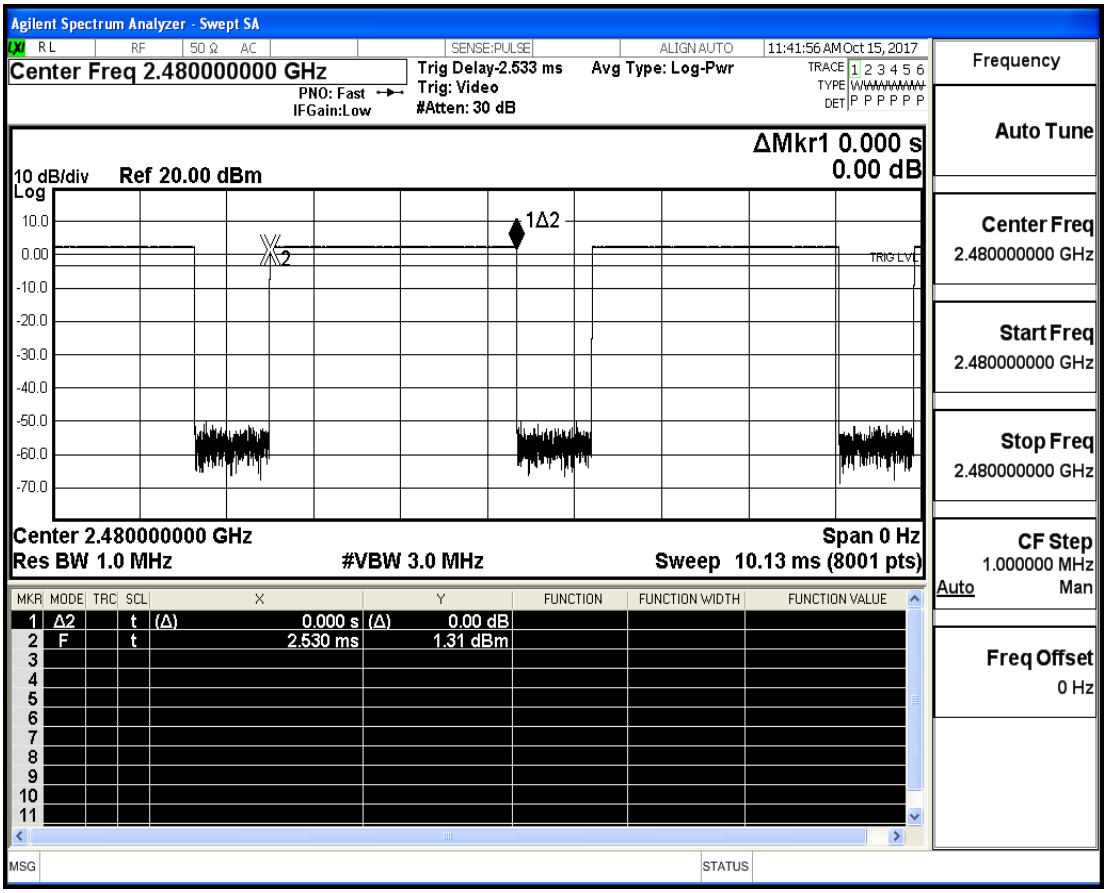
Dwell Time_DH5_2402



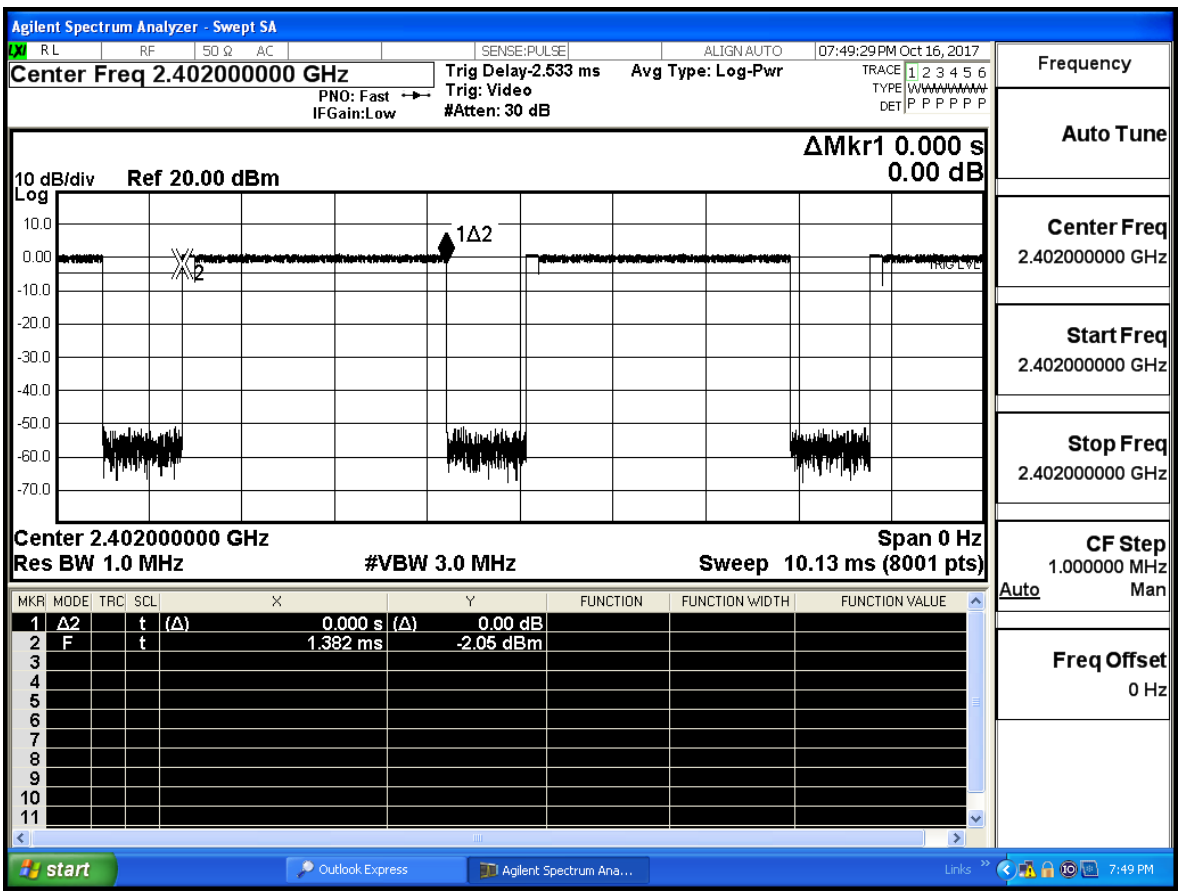
Dwell Time_DH5_2441



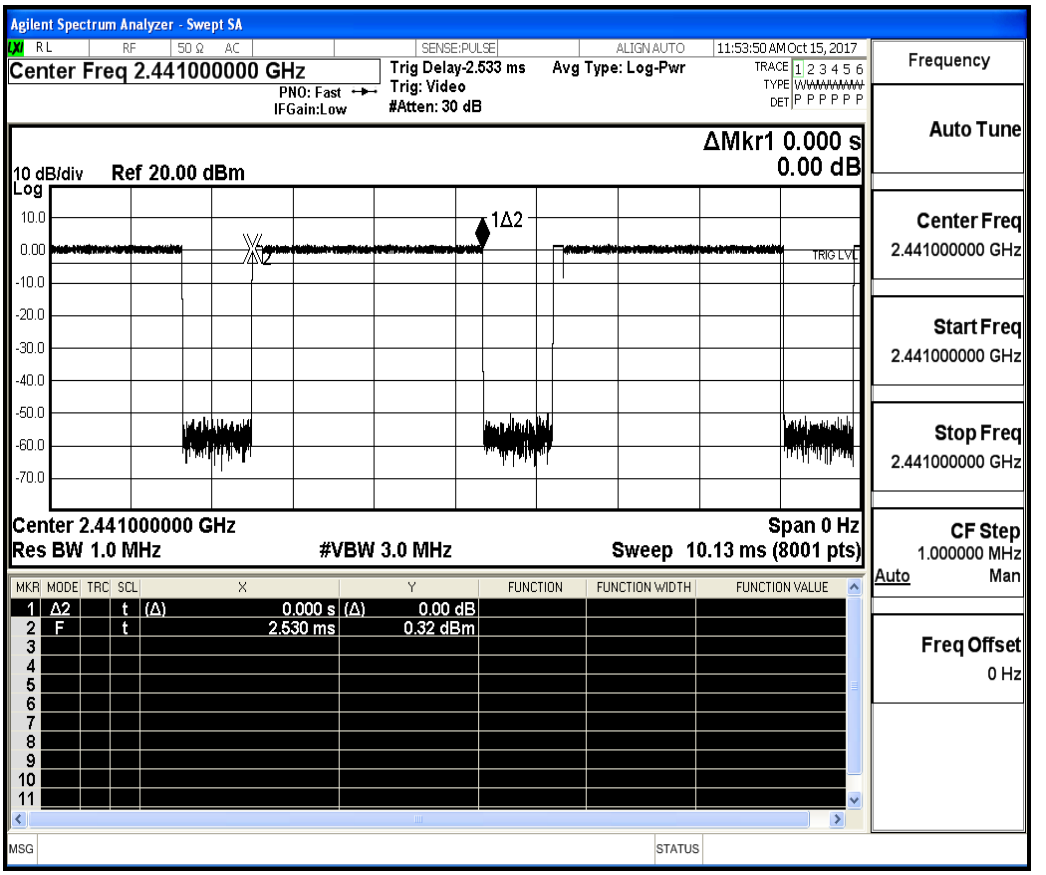
Dwell Time_DH5_2480



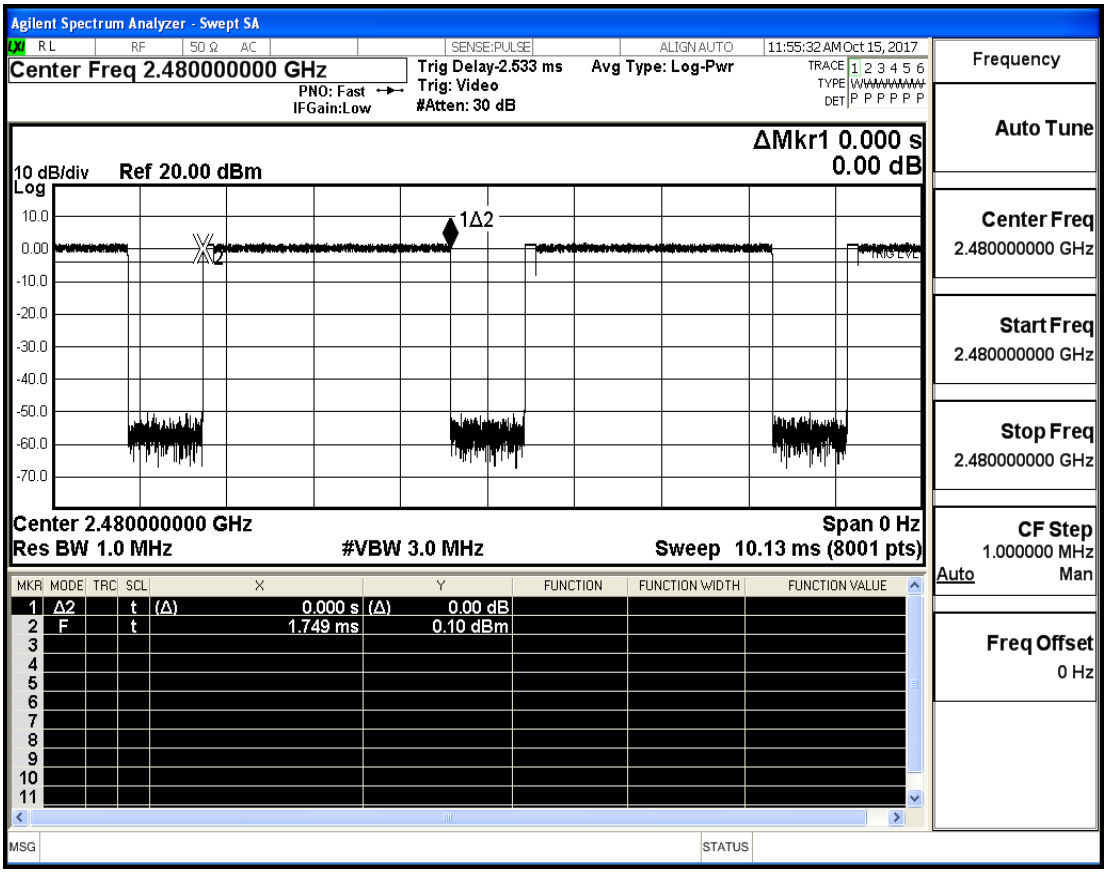
Dwell Time_2DH5_2402



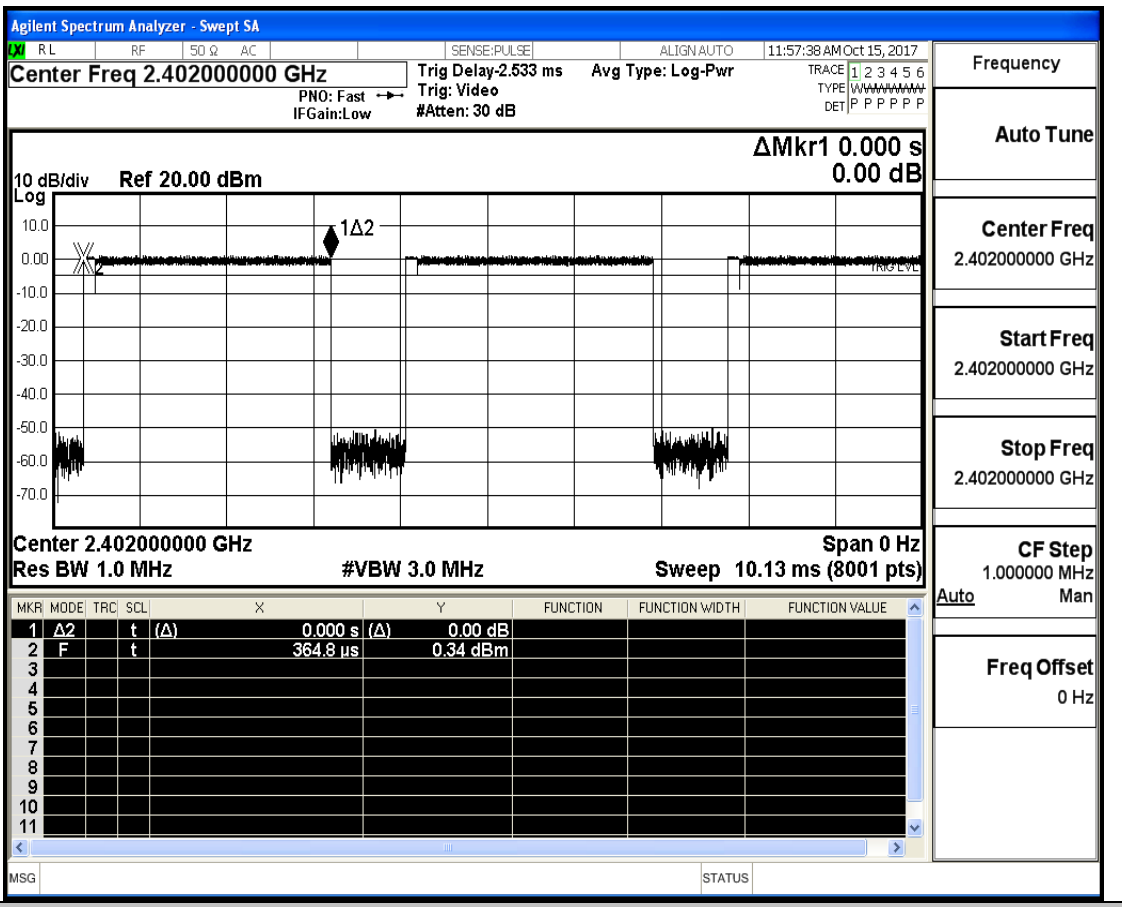
Dwell Time_2DH5_2441



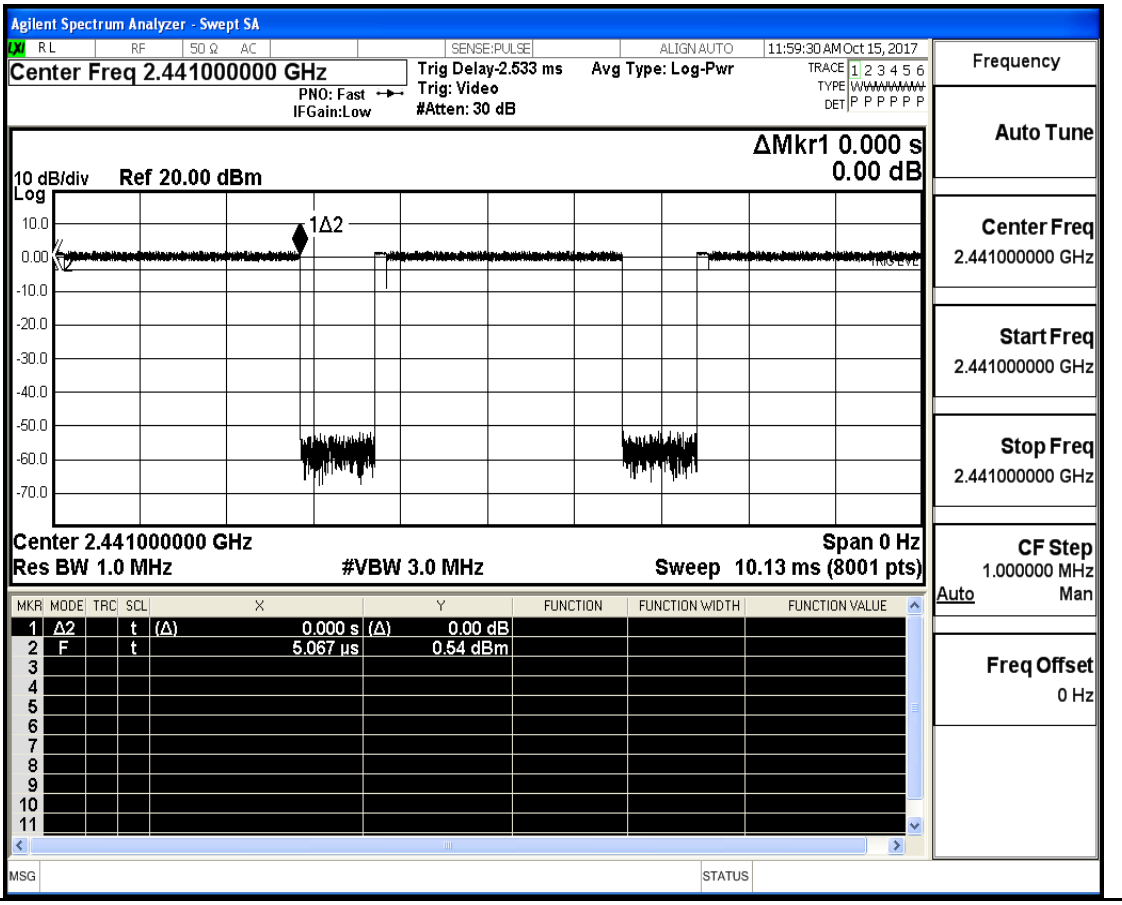
Dwell Time_2DH5_2480



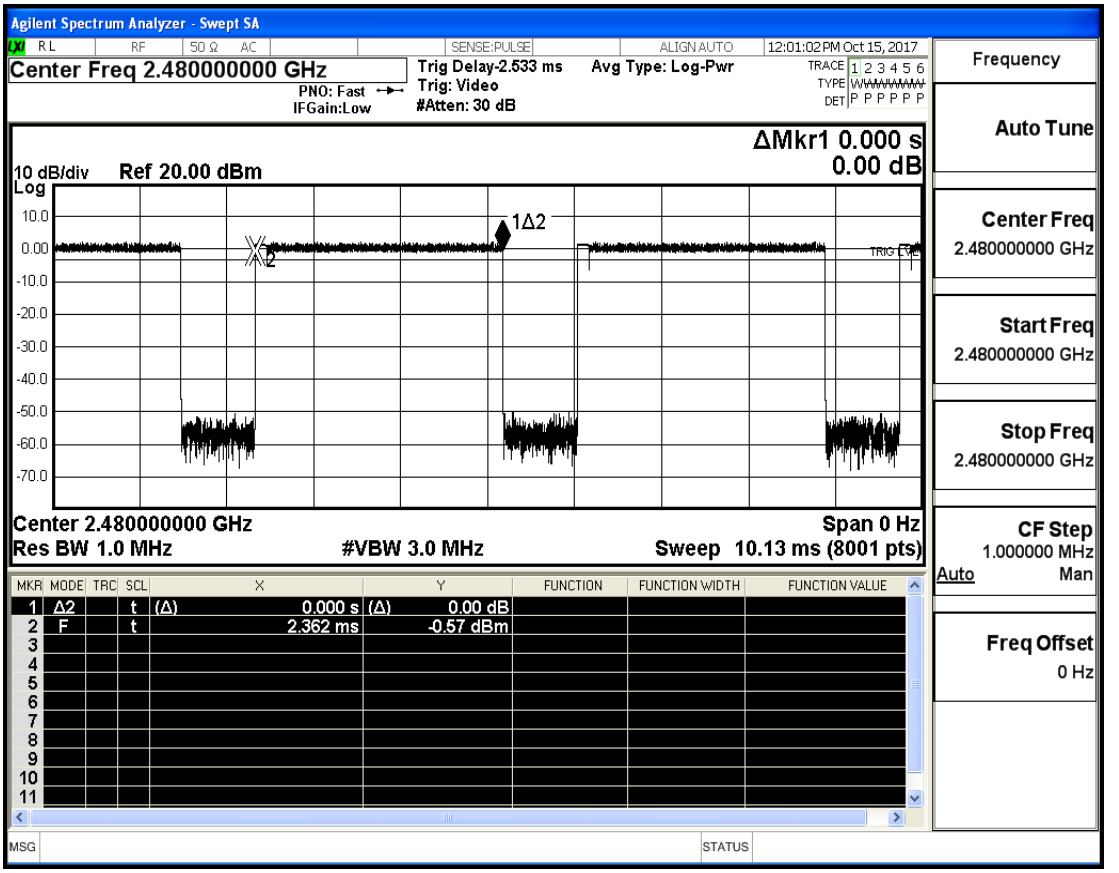
Dwell Time_3DH5_2402



Dwell Time_3DH5_2441



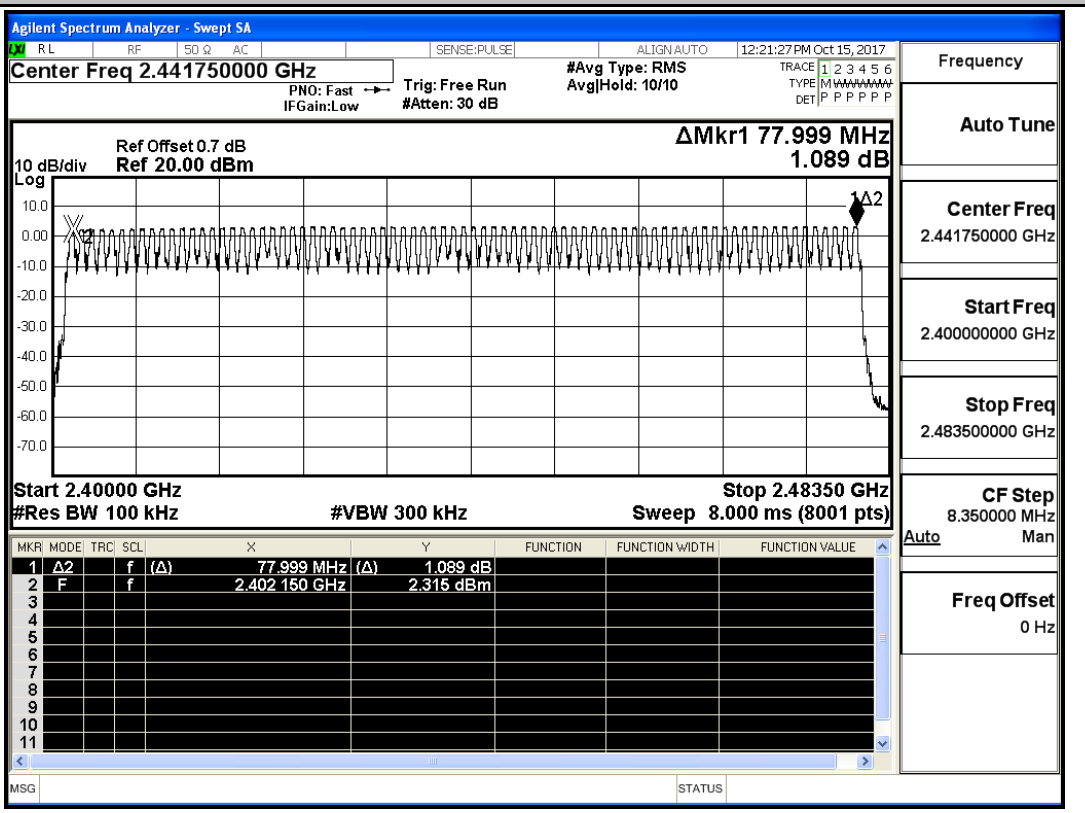
Dwell Time_3DH5_2480



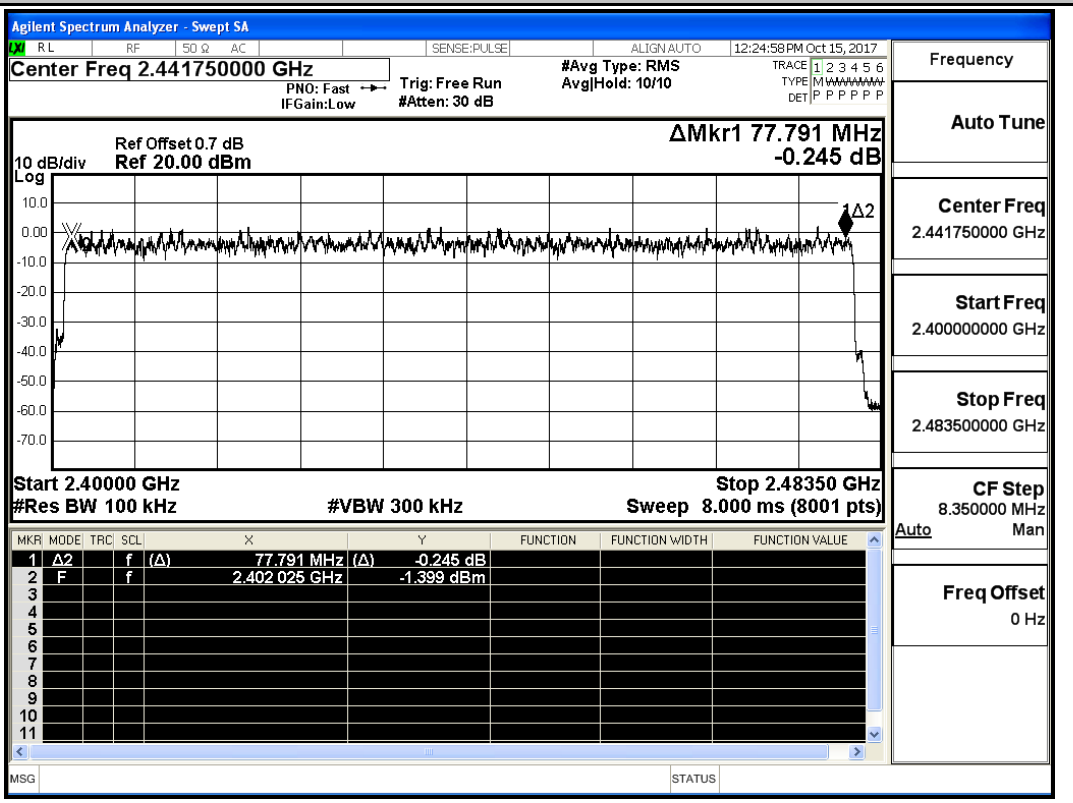
5.Hopping Channel Number

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

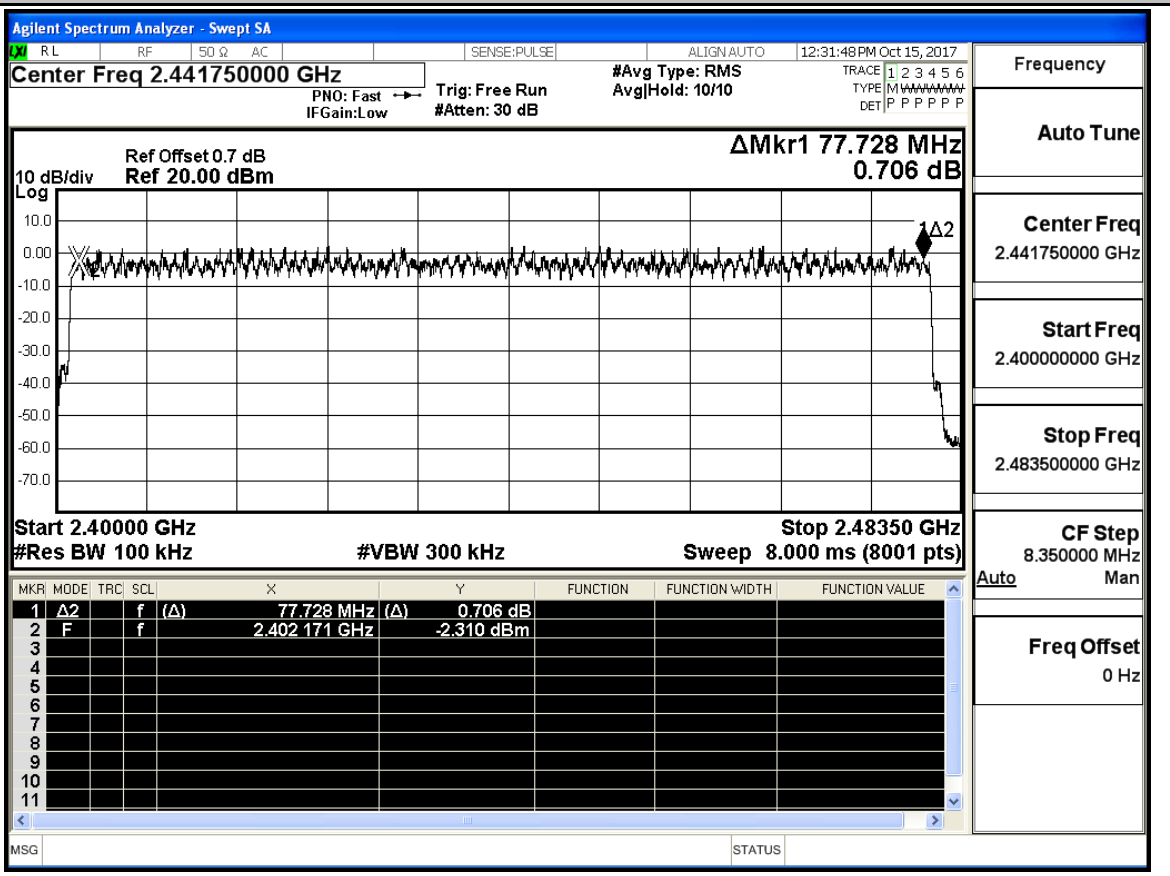
Hopping Channel Number_DH5_2402



Hopping Channel Number_2DH5_2402



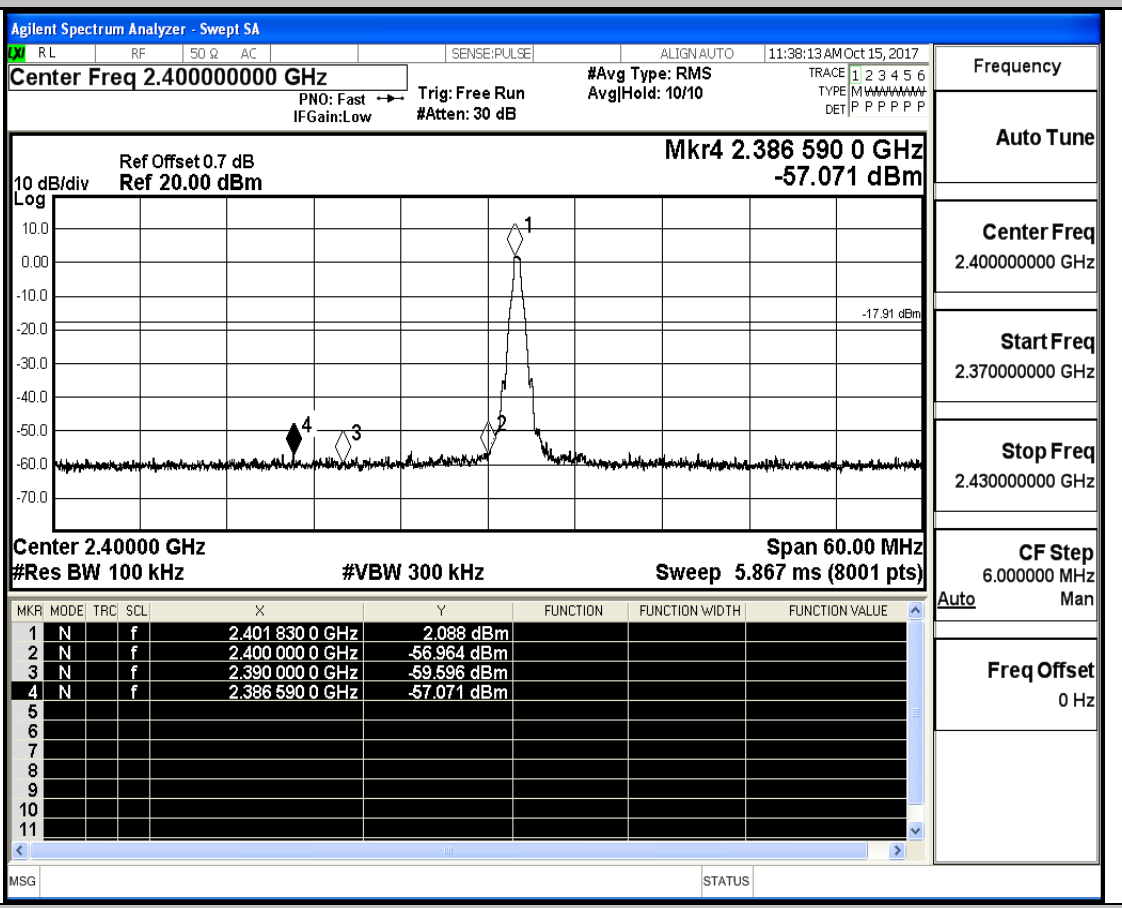
Hopping Channel Number_3DH5_2402



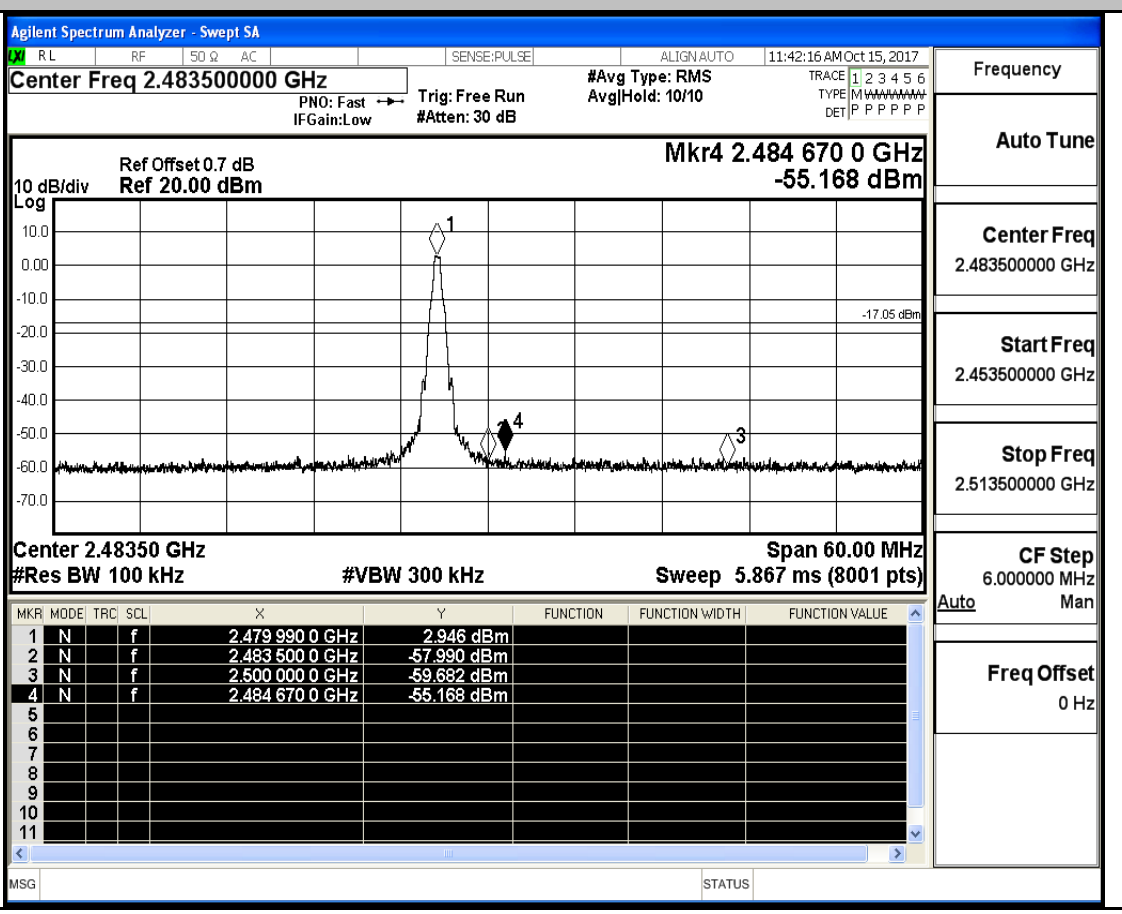
6.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Hopping	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit[dBm]	Verdict
DH5	2402	Off	2.088	-57.071	-17.91	PASS
DH5	2480	Off	2.946	-55.168	-17.05	PASS
2DH5	2402	Off	1.387	-57.504	-18.61	PASS
2DH5	2480	Off	2.002	-55.072	-18	PASS
3DH5	2402	Off	1.686	-57.350	-18.31	PASS
3DH5	2480	Off	1.956	-56.333	-18.04	PASS
DH5	2402	On	3.137	-56.857	-16.86	PASS
DH5	2480	On	3.090	-56.192	-16.91	PASS
2DH5	2402	On	2.420	-56.339	-17.58	PASS
2DH5	2480	On	2.214	-56.326	-17.79	PASS
3DH5	2402	On	2.114	-56.949	-17.89	PASS
3DH5	2480	On	2.159	-55.861	-17.84	PASS

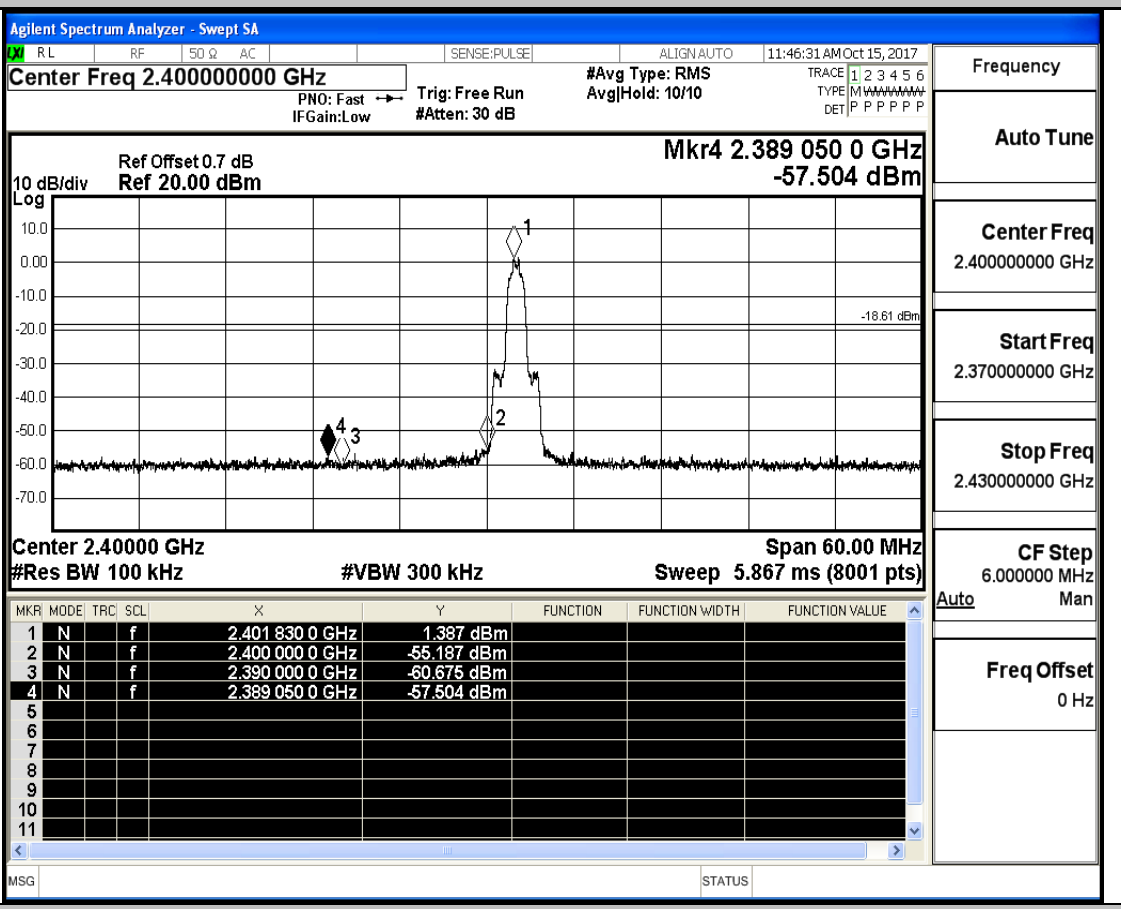
Band-edge for RF Conducted Emissions_DH5_2402_Hopping Off



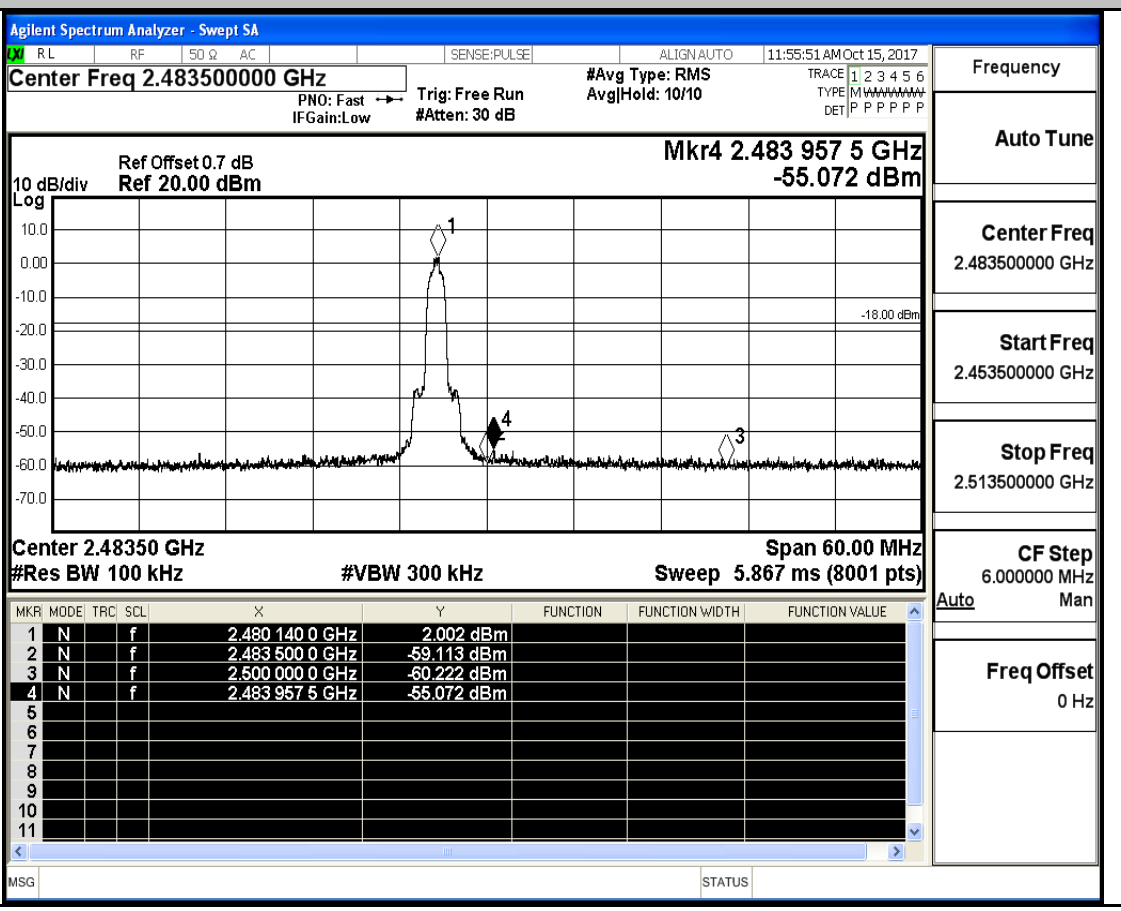
Band-edge for RF Conducted Emissions_DH5_2480_Hopping Off



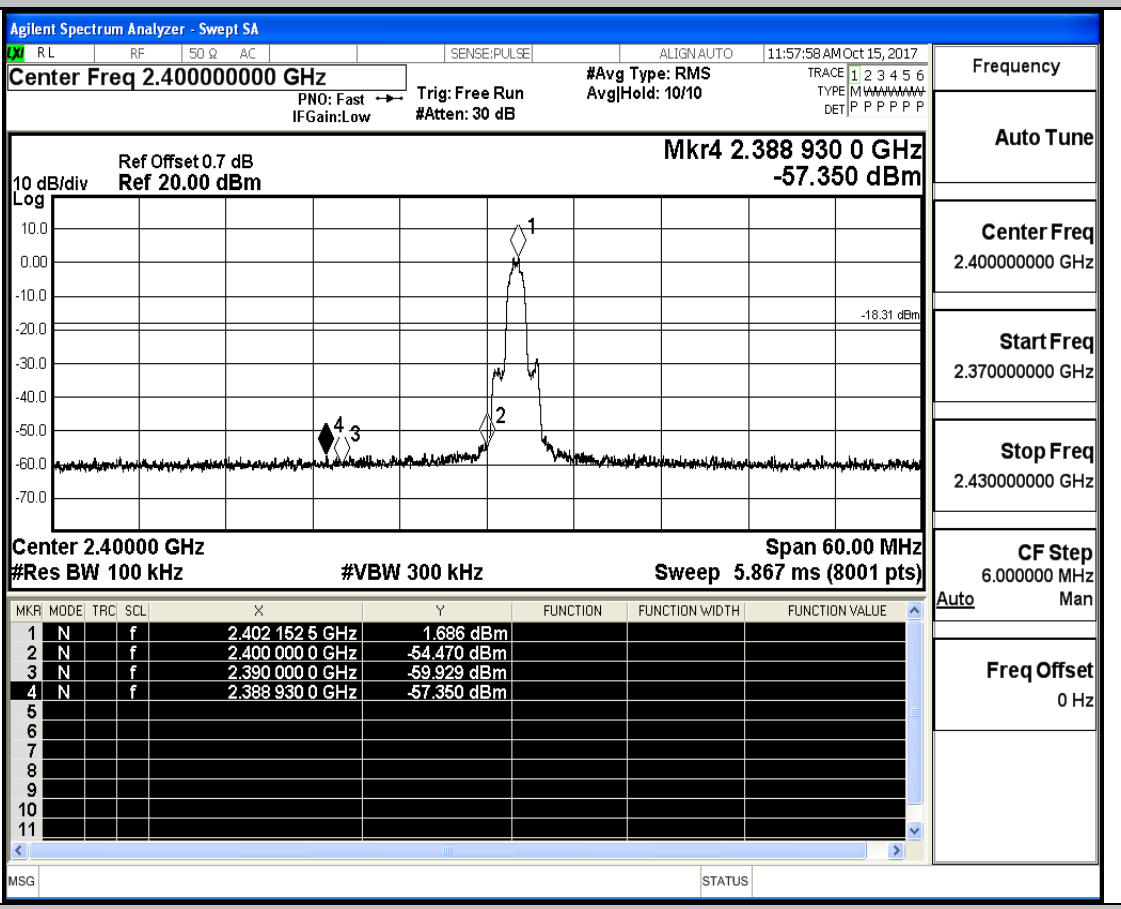
Band-edge for RF Conducted Emissions_2DH5_2402_Hopping Off



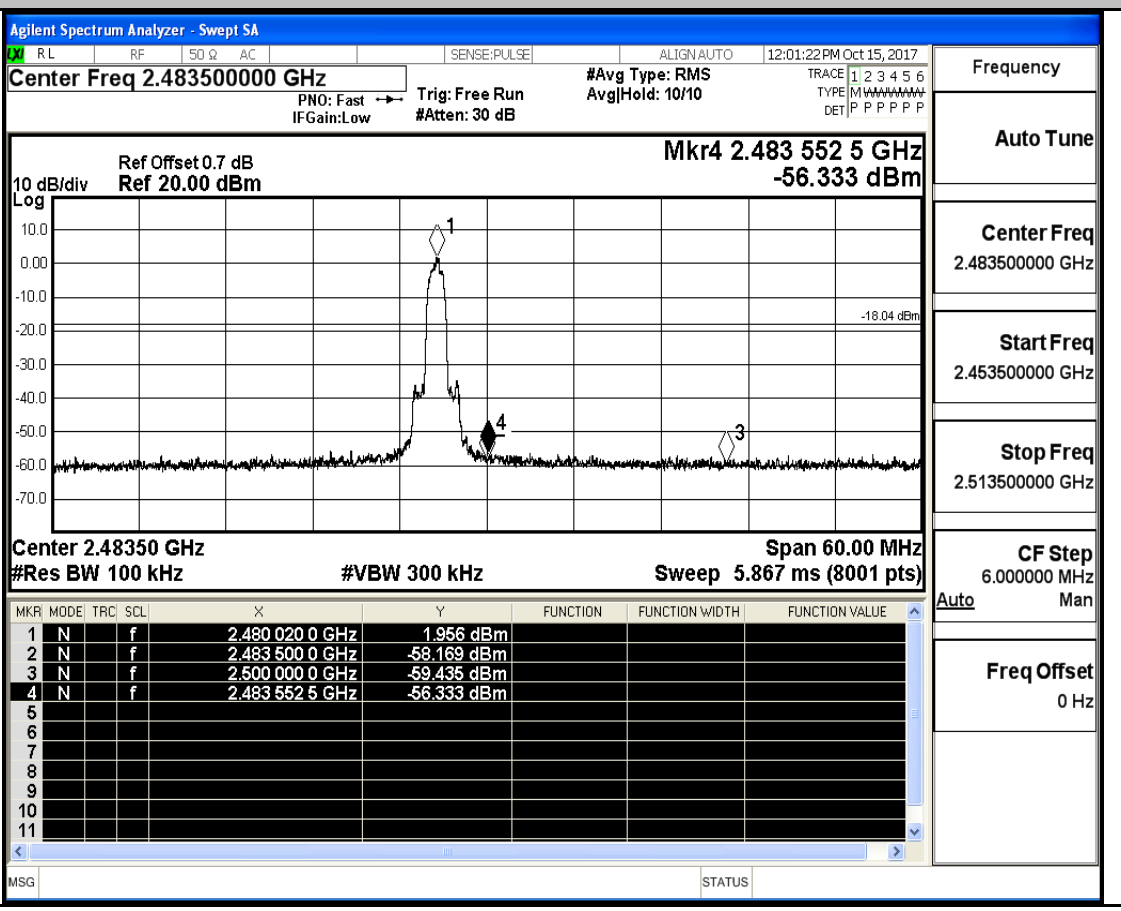
Band-edge for RF Conducted Emissions_2DH5_2480_Hopping Off



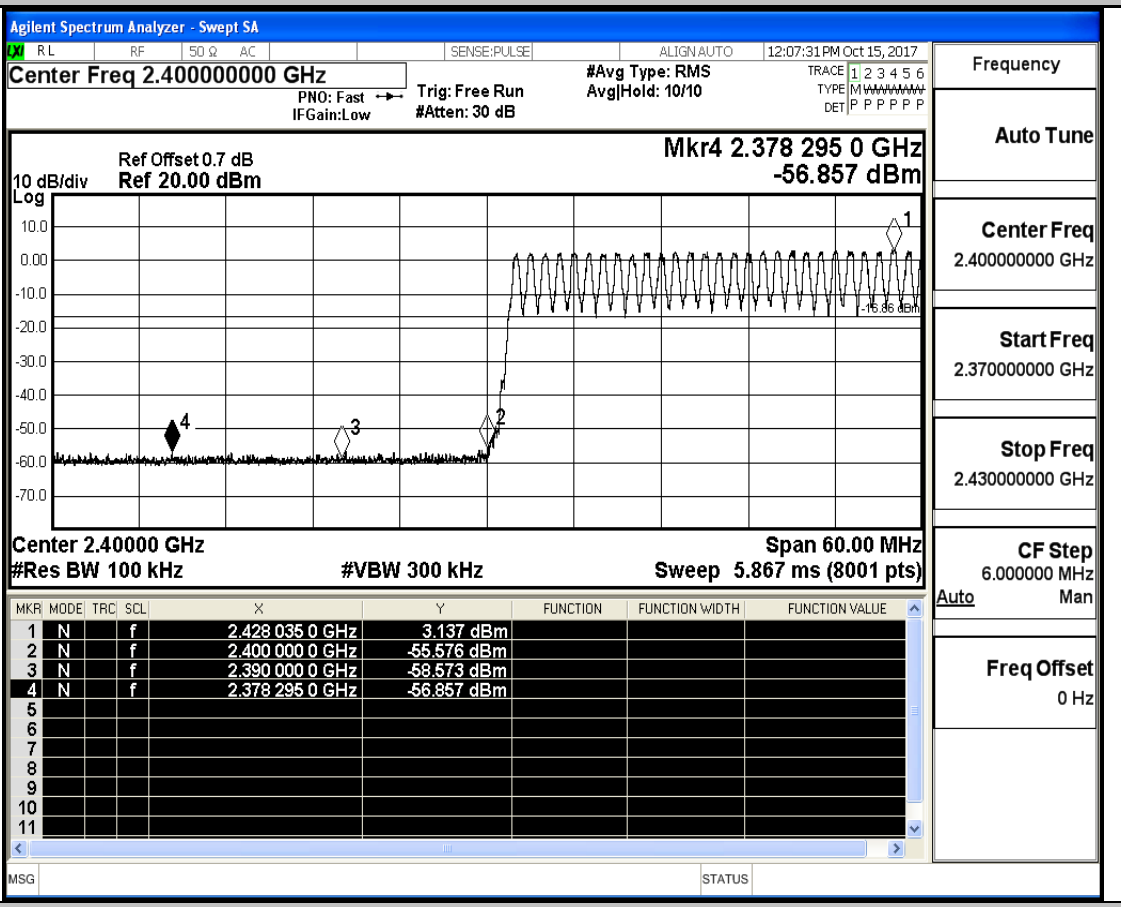
Band-edge for RF Conducted Emissions_3DH5_2402_Hopping Off



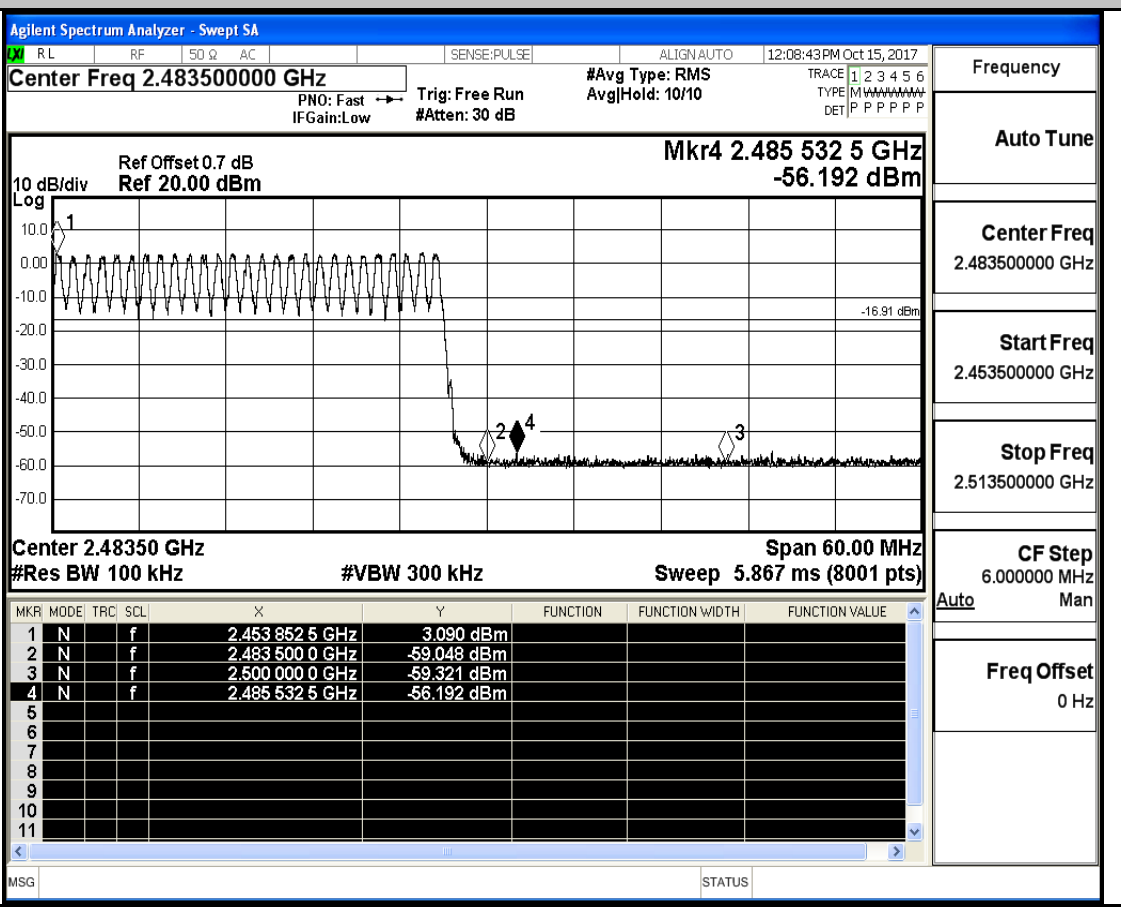
Band-edge for RF Conducted Emissions_3DH5_2480_Hopping Off



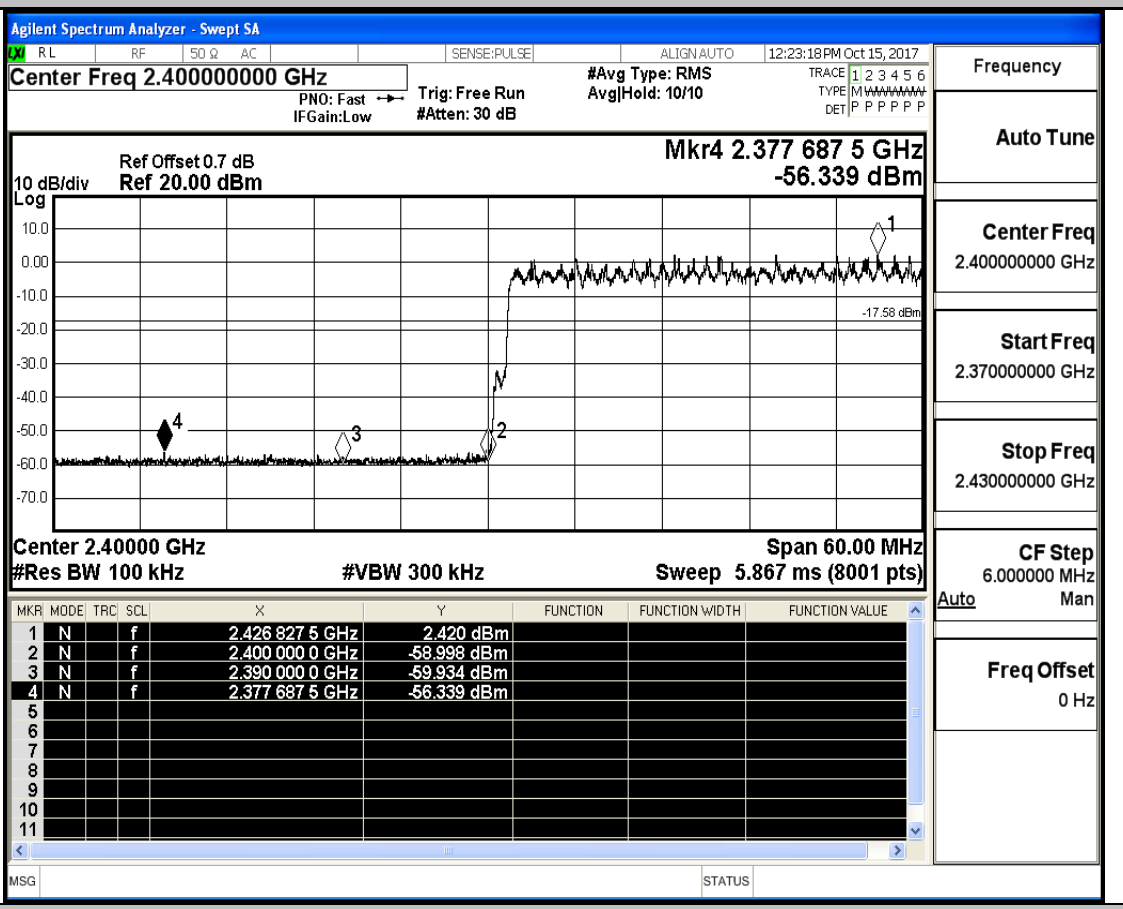
Band-edge for RF Conducted Emissions_DH5_2402_Hopping On



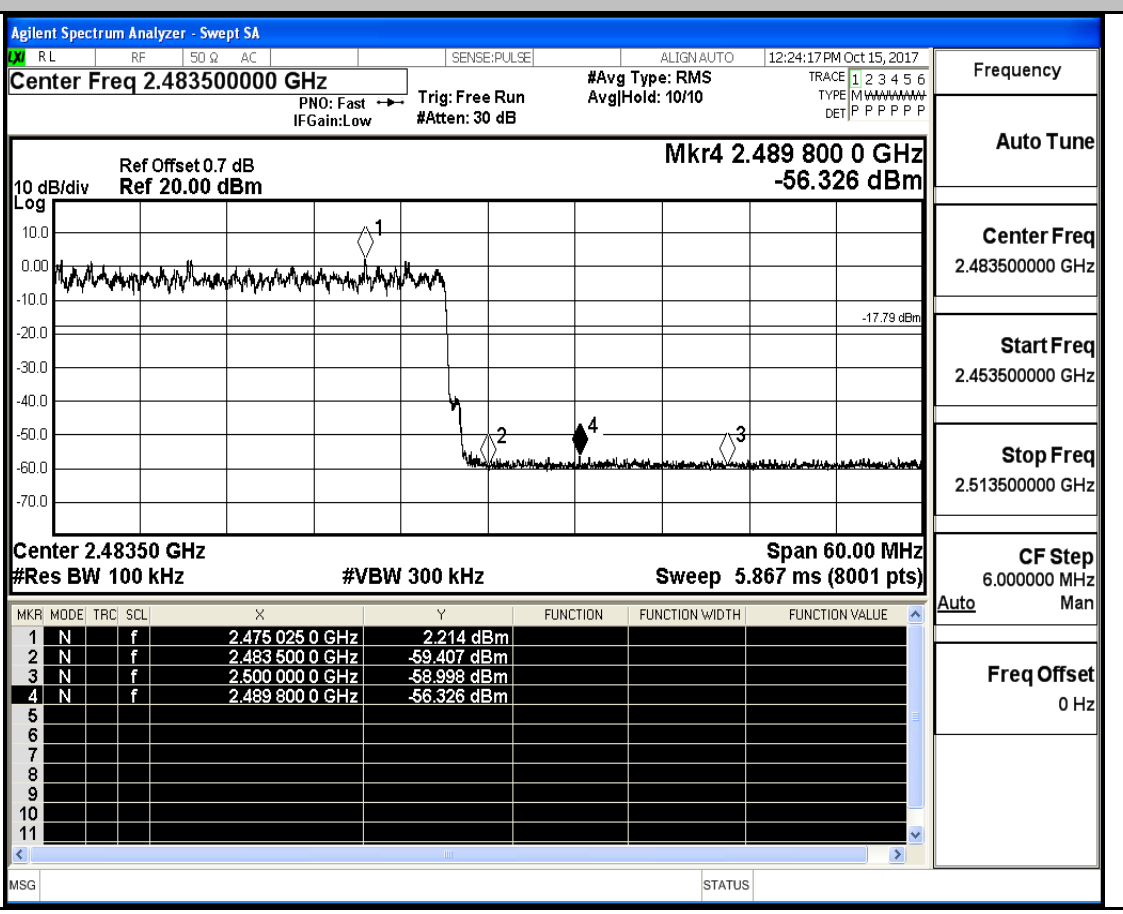
Band-edge for RF Conducted Emissions_DH5_2480_Hopping On



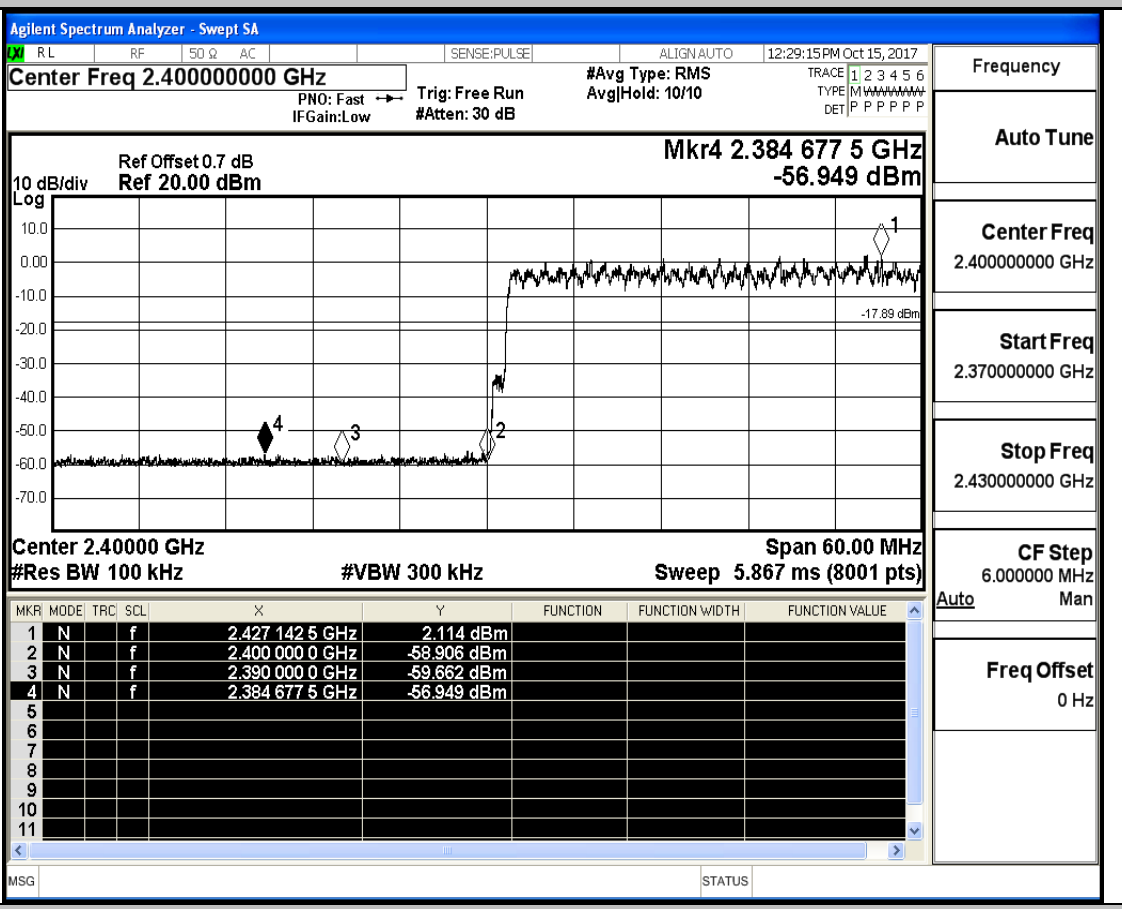
Band-edge for RF Conducted Emissions_2DH5_2402_Hopping On



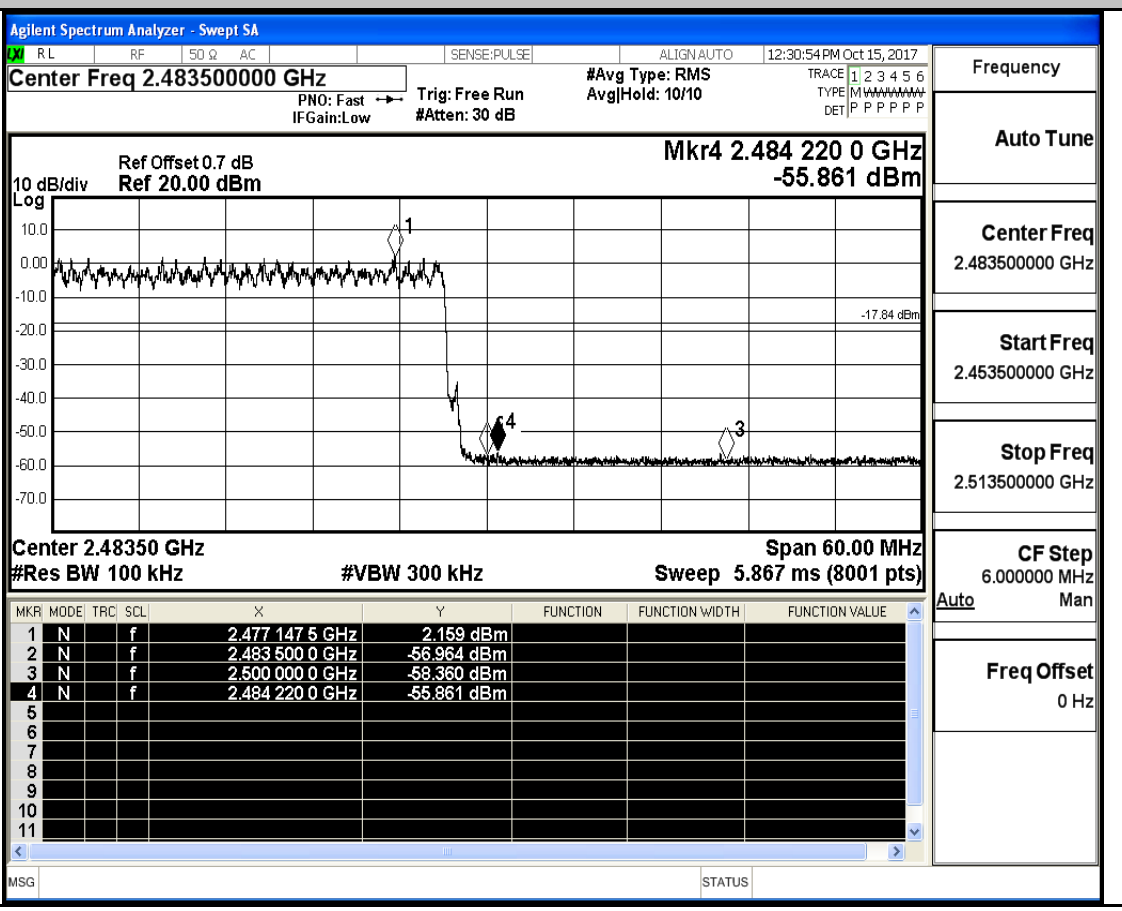
Band-edge for RF Conducted Emissions_2DH5_2480_Hopping On



Band-edge for RF Conducted Emissions_3DH5_2402_Hopping On



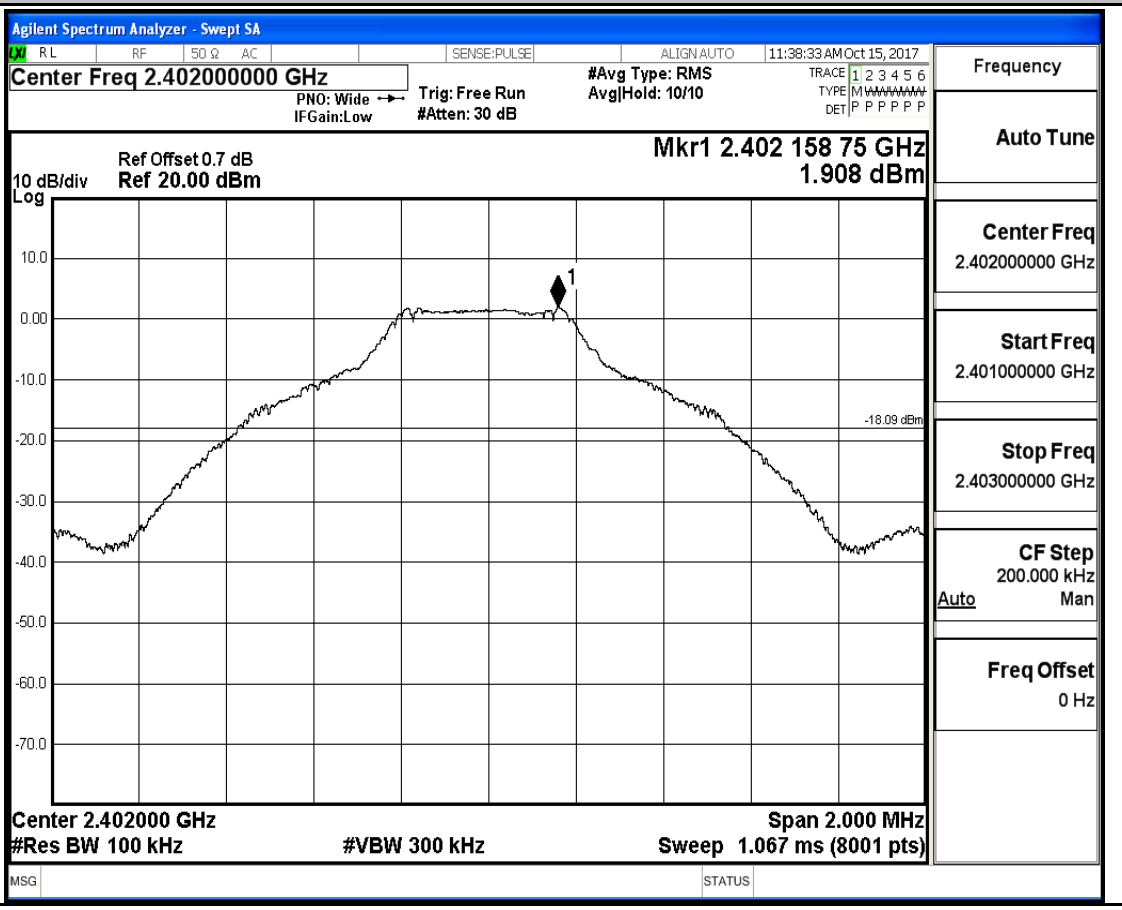
Band-edge for RF Conducted Emissions_3DH5_2480_Hopping On

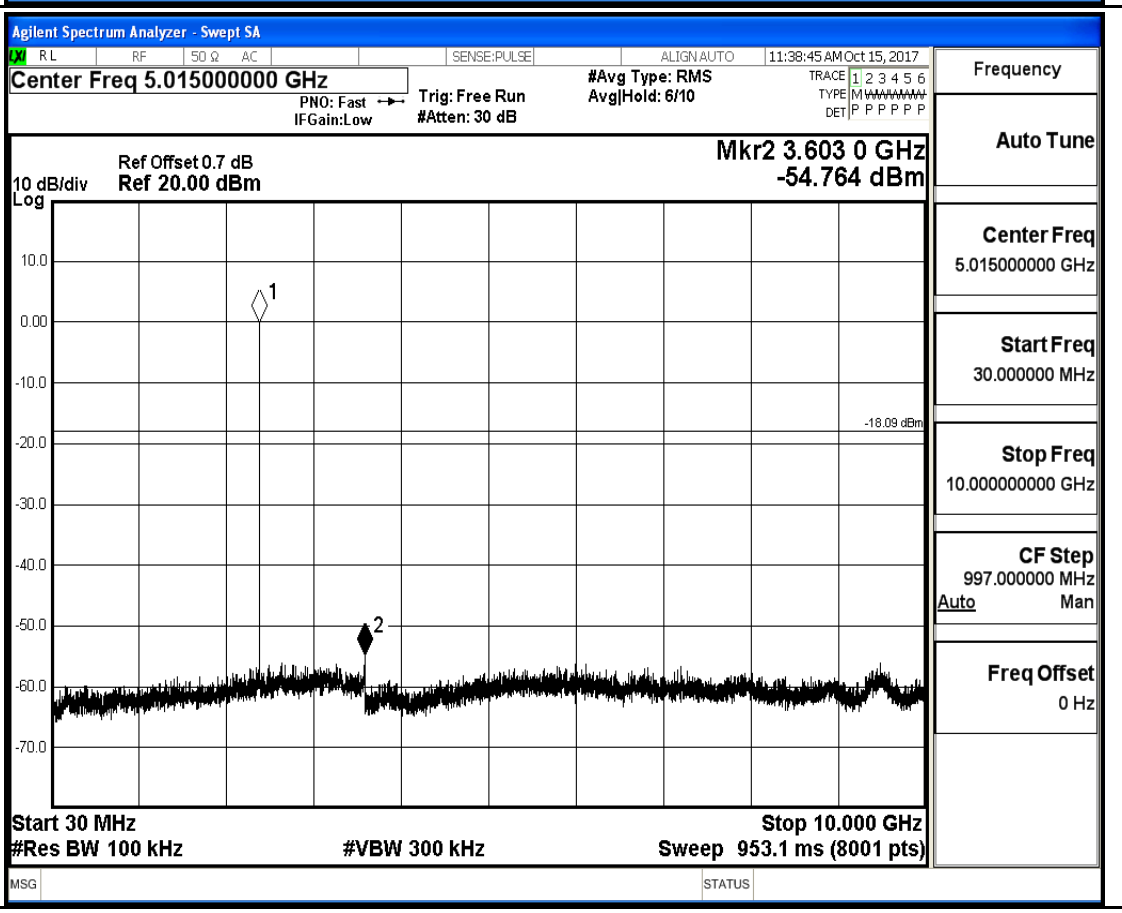


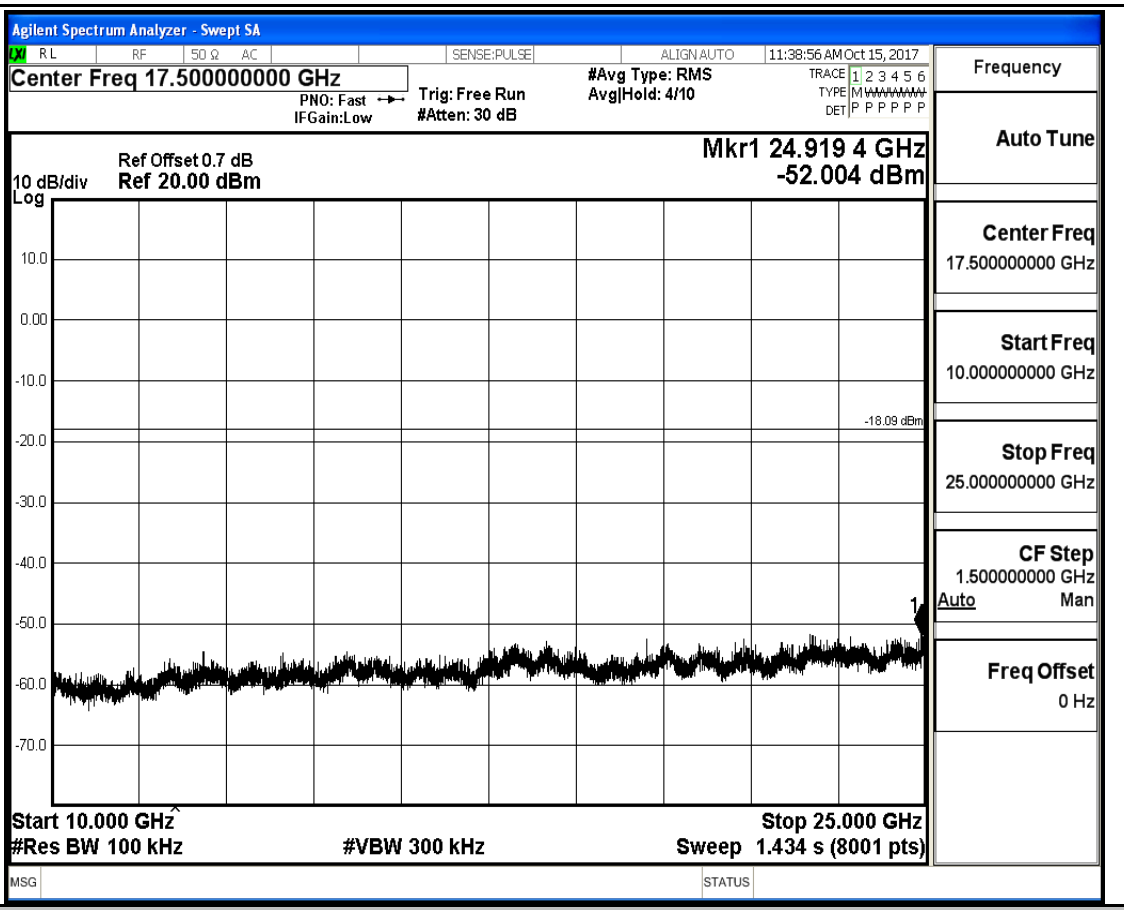
7.RF Conducted Spurious Emissions

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	1.908	-54.764	<-18.092	PASS
DH5	2402	10000	25000	100	300	1.908	-52.004	<-18.092	PASS
DH5	2441	30	10000	100	300	2.954	-53.718	<-17.046	PASS
DH5	2441	10000	25000	100	300	2.954	-52.143	<-17.046	PASS
DH5	2480	30	10000	100	300	2.921	-53.564	<-17.079	PASS
DH5	2480	10000	25000	100	300	2.921	-51.810	<-17.079	PASS
2DH5	2402	30	10000	100	300	1.179	-56.004	<-18.821	PASS
2DH5	2402	10000	25000	100	300	1.179	-52.065	<-18.821	PASS
2DH5	2441	30	10000	100	300	1.824	-55.511	<-18.176	PASS
2DH5	2441	10000	25000	100	300	1.824	-51.361	<-18.176	PASS
2DH5	2480	30	10000	100	300	2.093	-56.180	<-17.907	PASS
2DH5	2480	10000	25000	100	300	2.093	-51.424	<-17.907	PASS
3DH5	2402	30	10000	100	300	1.611	-55.630	<-18.389	PASS
3DH5	2402	10000	25000	100	300	1.611	-51.264	<-18.389	PASS
3DH5	2441	30	10000	100	300	1.77	-56.036	<-18.23	PASS
3DH5	2441	10000	25000	100	300	1.77	-51.348	<-18.23	PASS
3DH5	2480	30	10000	100	300	2.247	-55.803	<-17.753	PASS
3DH5	2480	10000	25000	100	300	2.247	-51.478	<-17.753	PASS

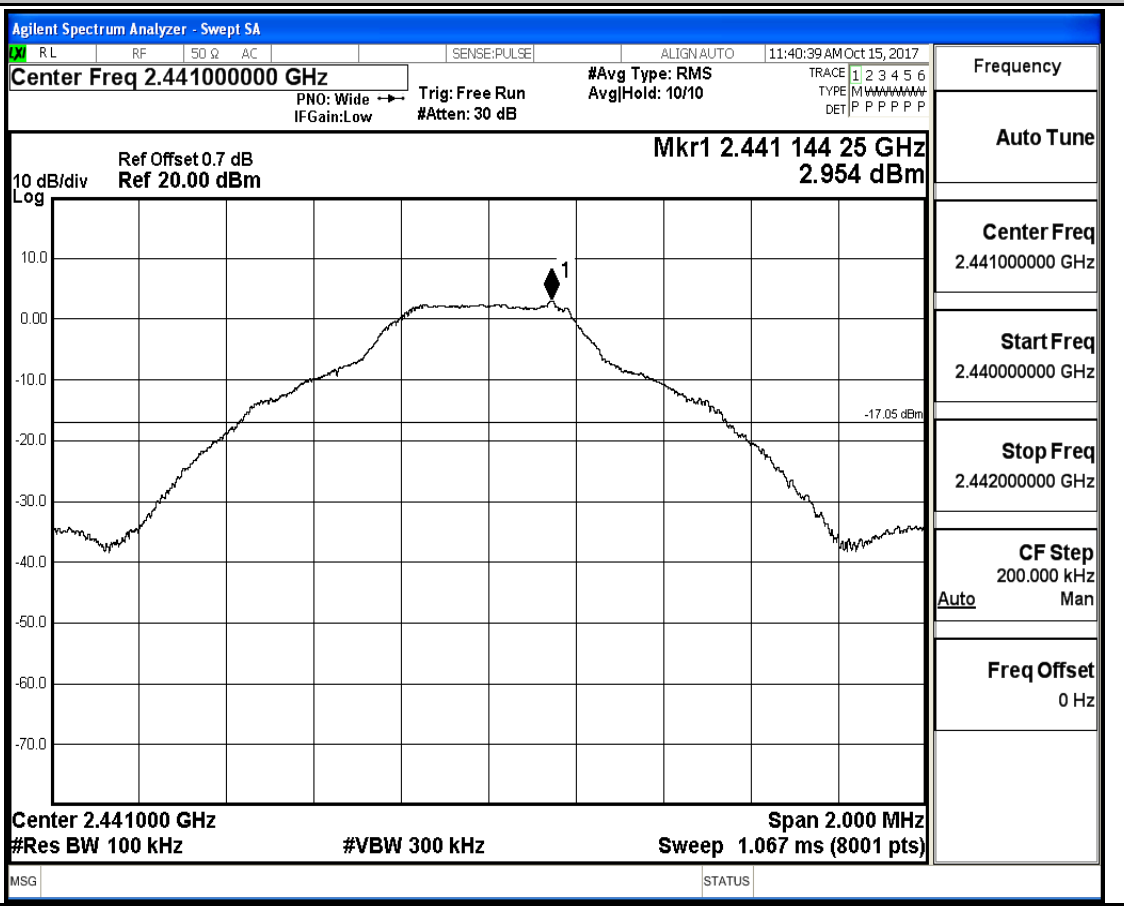
RF Conducted Spurious Emissions_DH5_2402

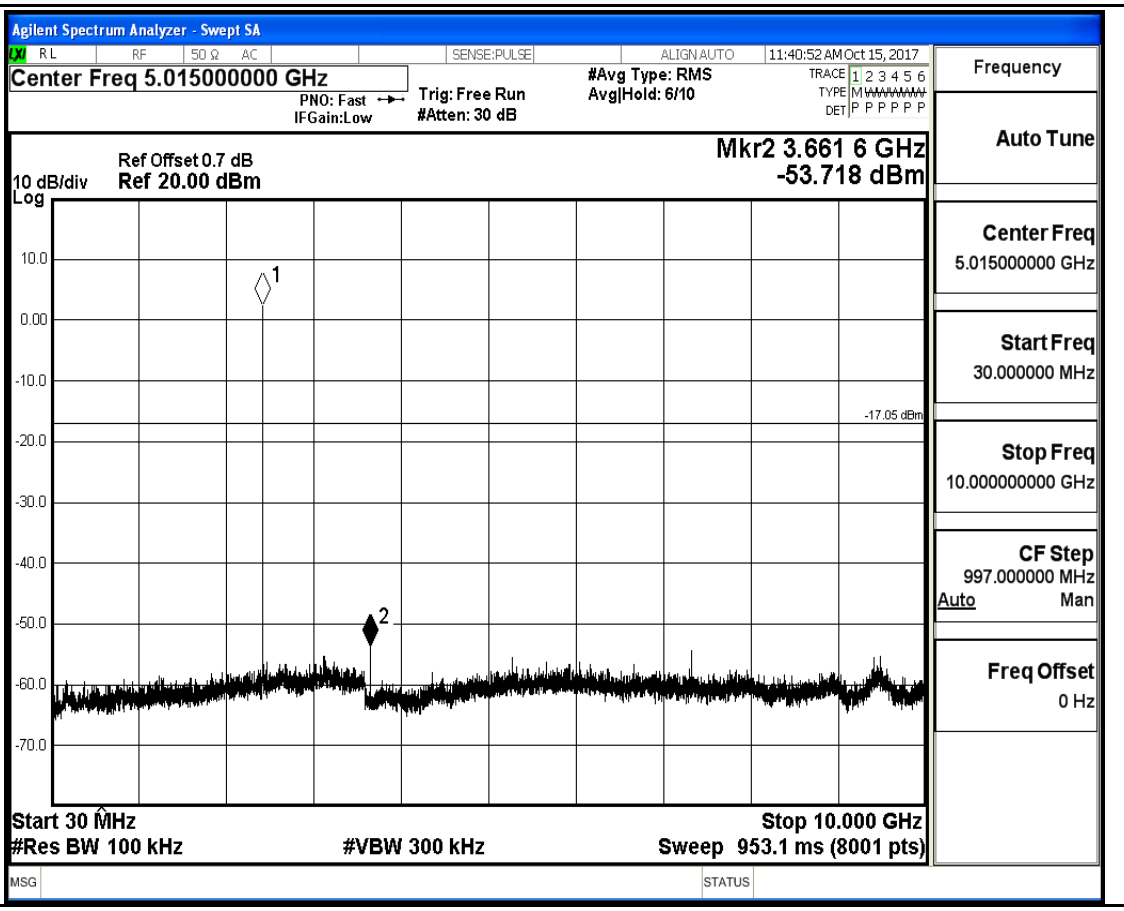


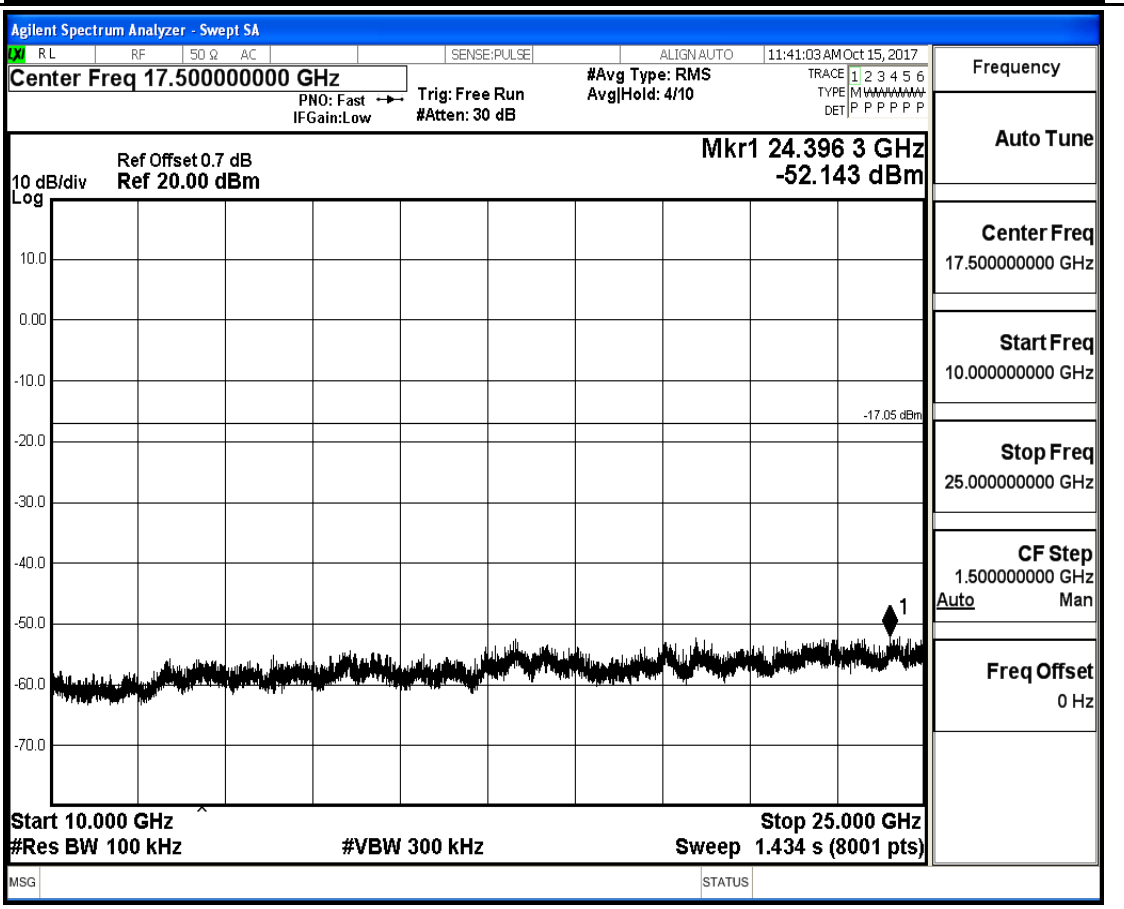




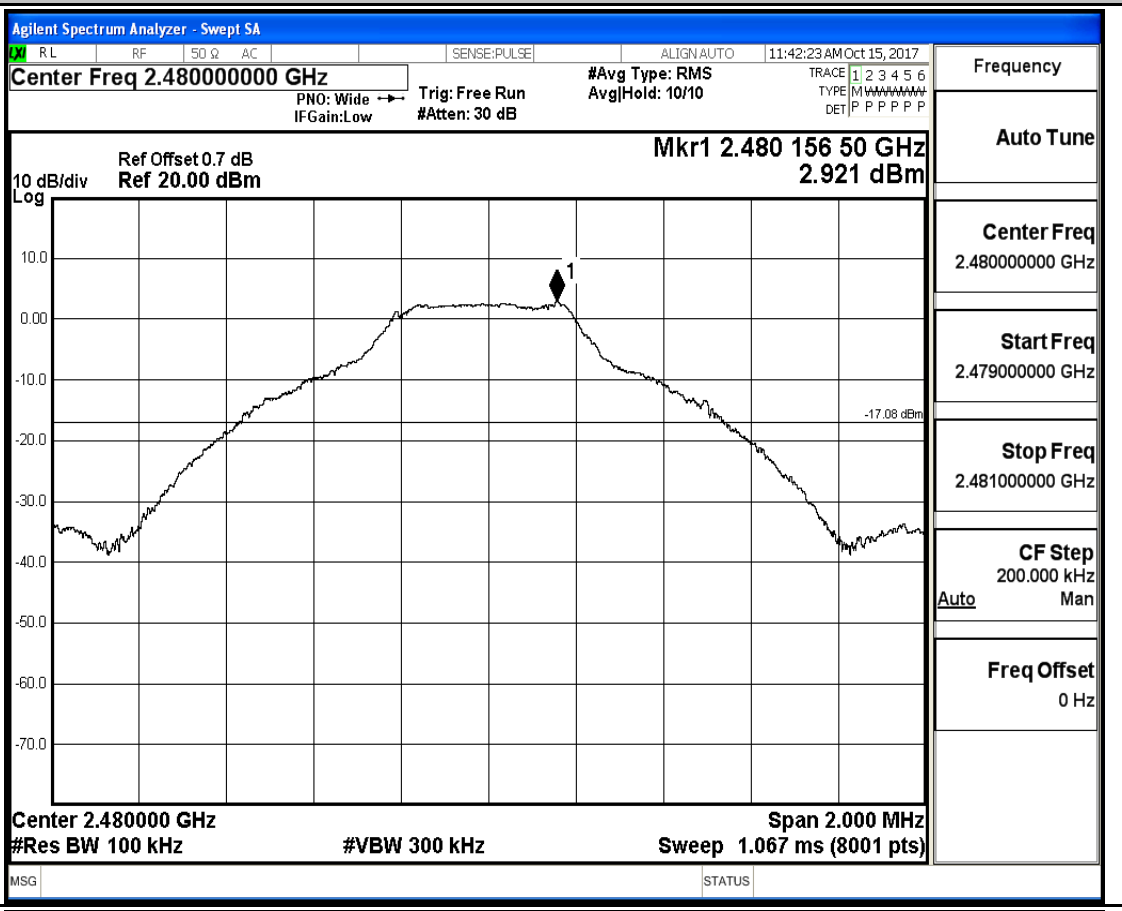
RF Conducted Spurious Emissions_DH5_2441

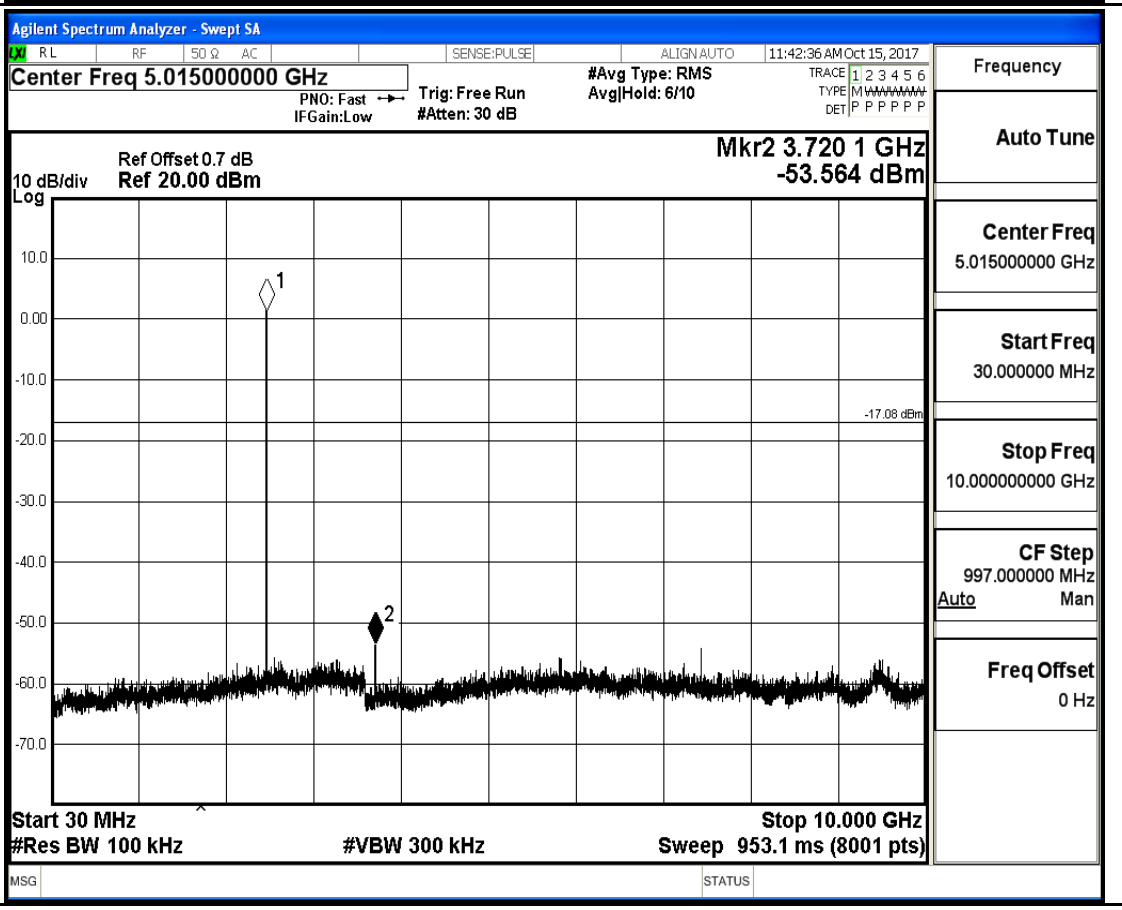


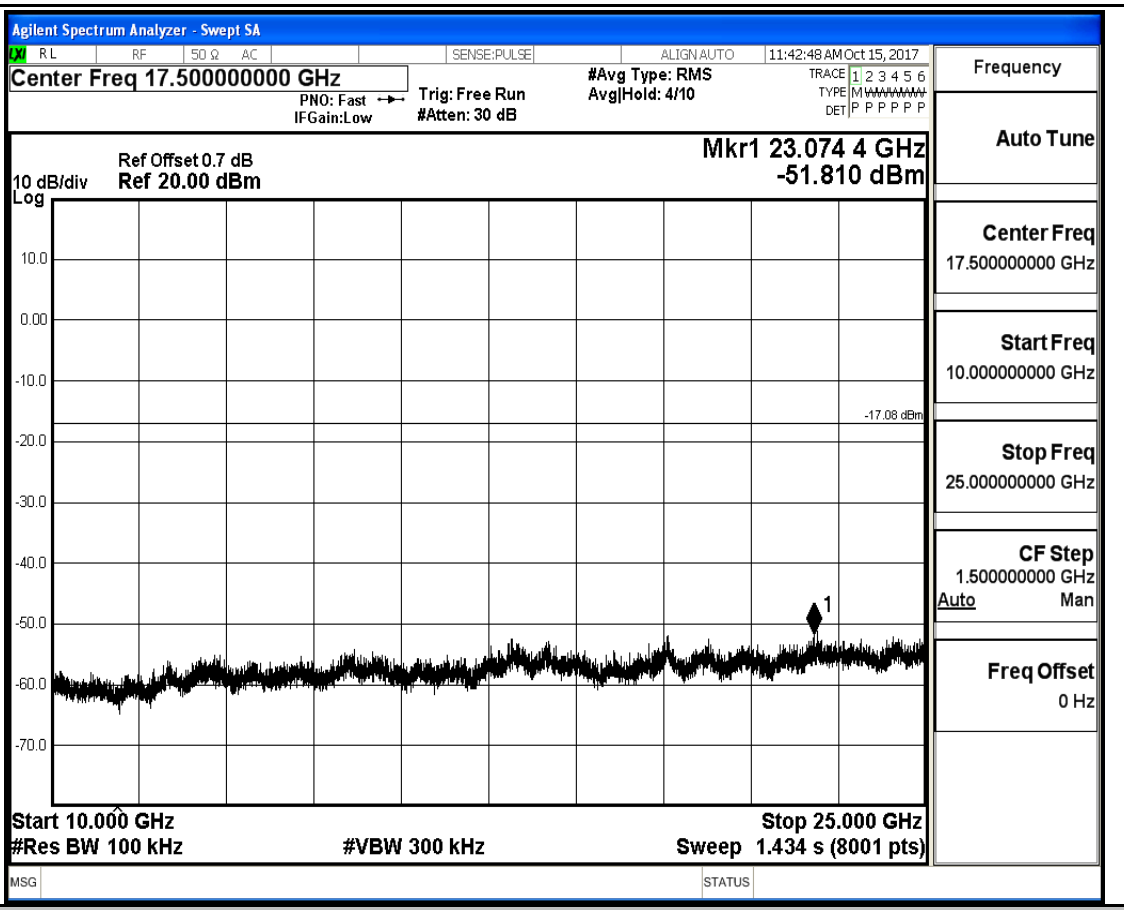

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
11:40:52 AM Oct 15, 2017
Center Freq 5.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 6/10
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P
Ref Offset 0.7 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr2 3.661 6 GHz
-53.718 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-17.05 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 953.1 ms (8001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
10.000000000 GHz
CF Step
997.000000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
11:41:03 AM Oct 15, 2017
Center Freq 17.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 4/10
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P
Ref Offset 0.7 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr1 24.396 3 GHz
-52.143 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-17.05 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.434 s (8001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
17.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
25.000000000 GHz
CF Step
1.500000000 GHz
Auto
Man
Freq Offset
0 Hz

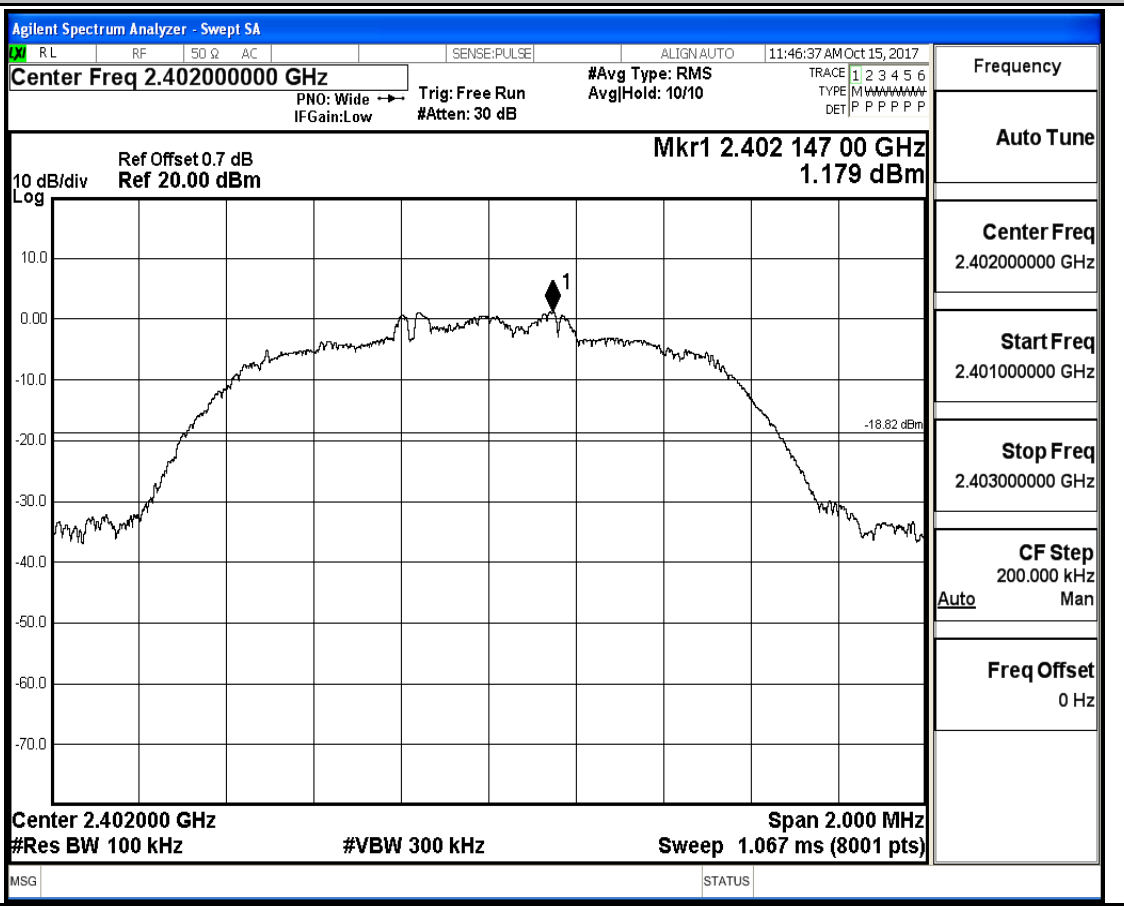
RF Conducted Spurious Emissions_DH5_2480

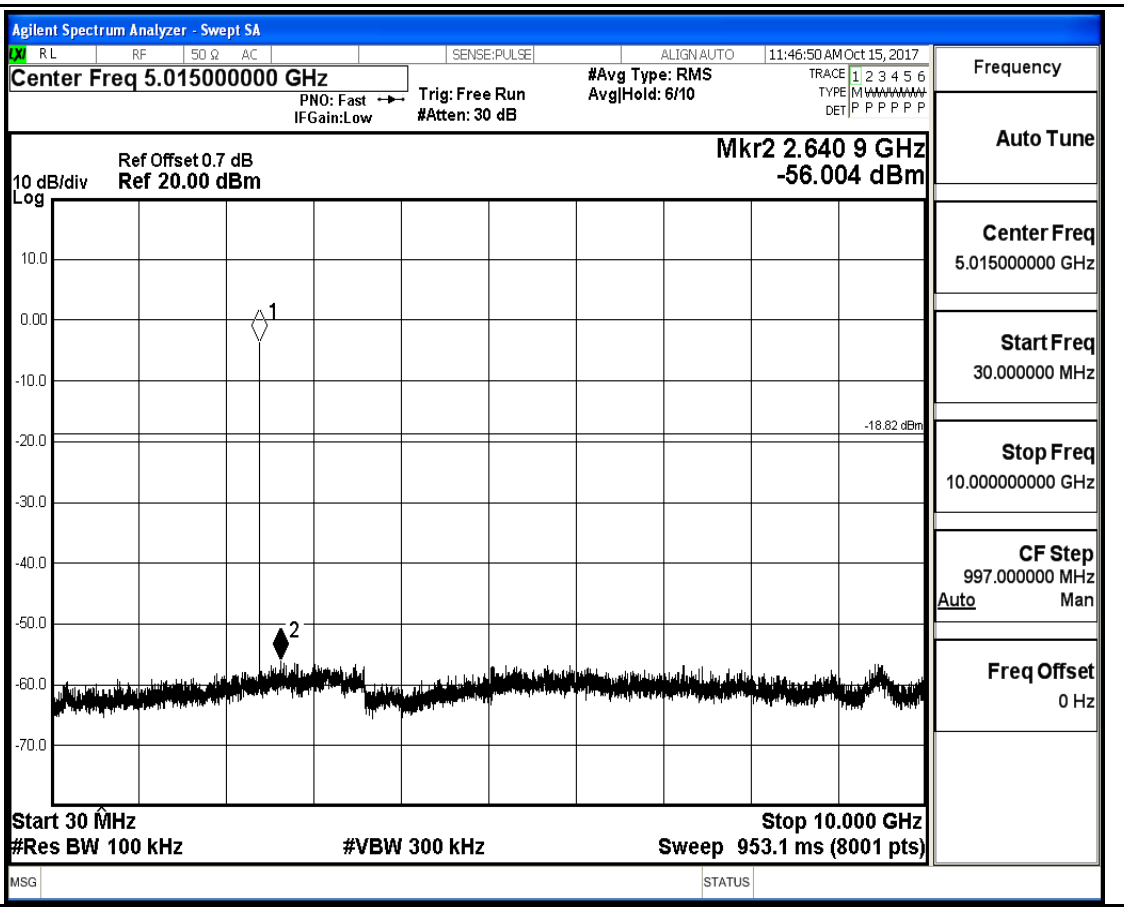


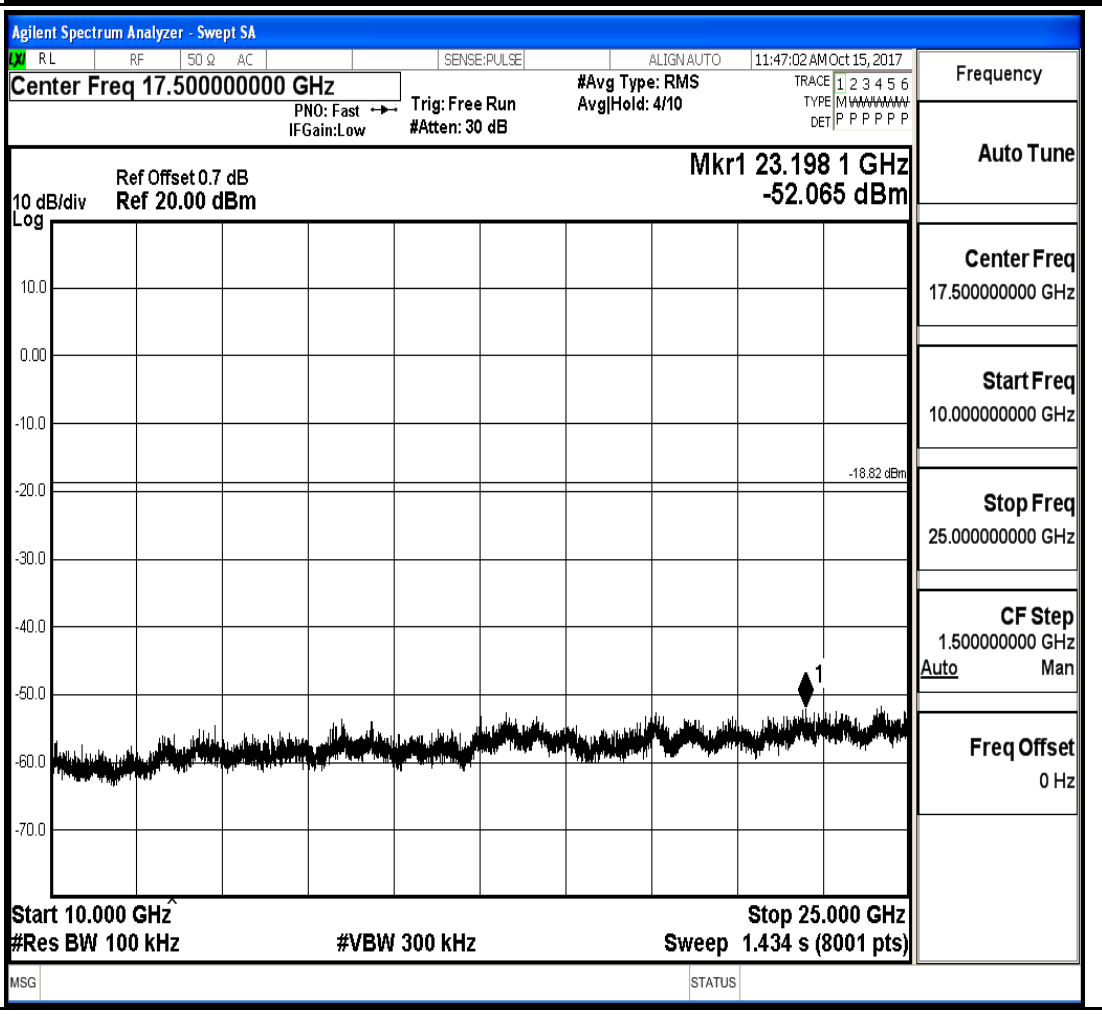




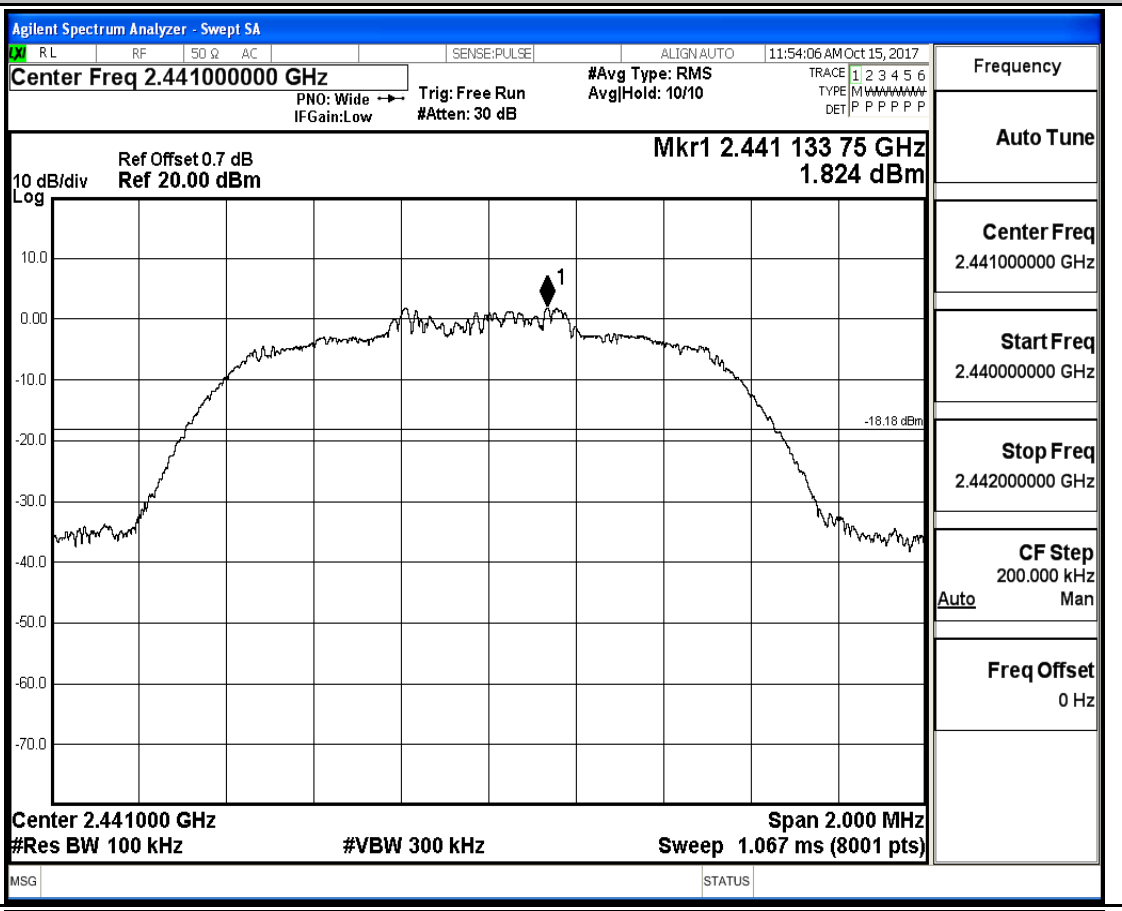
RF Conducted Spurious Emissions_2DH5_2402

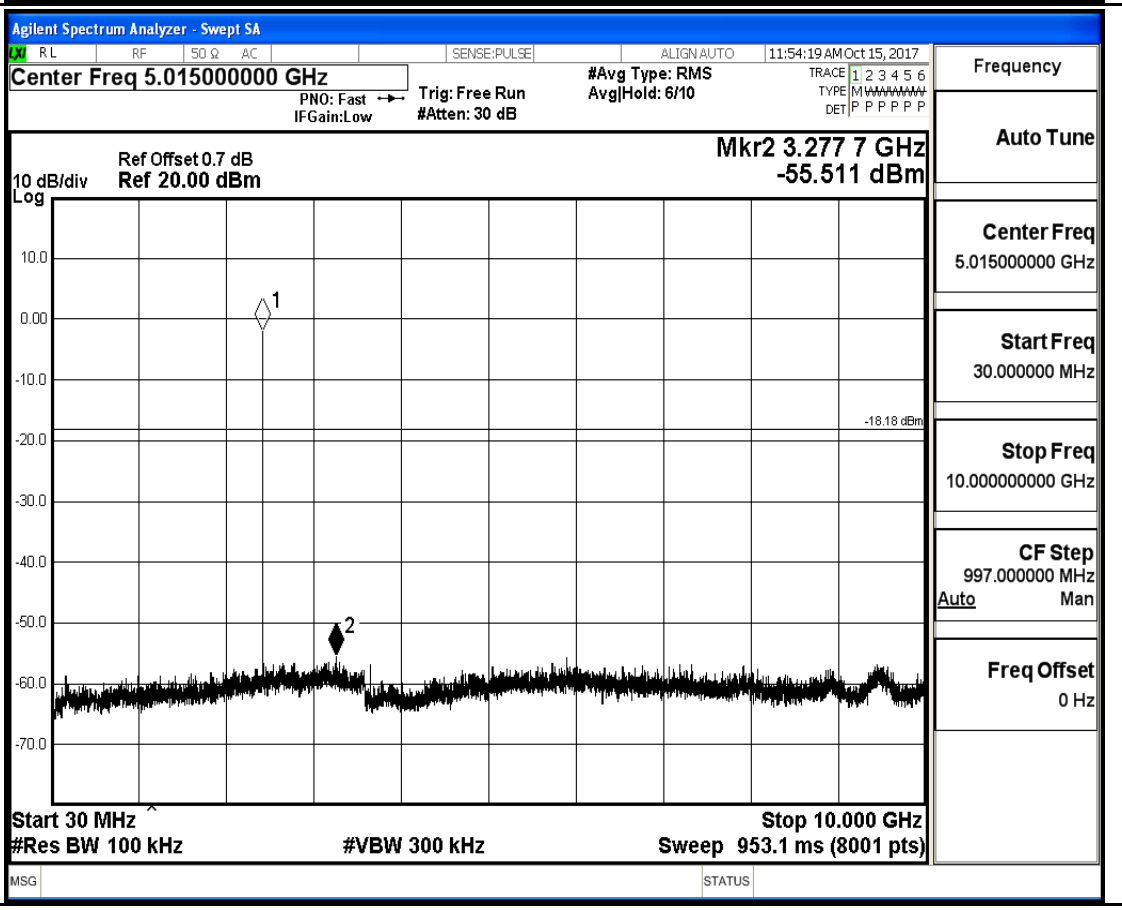


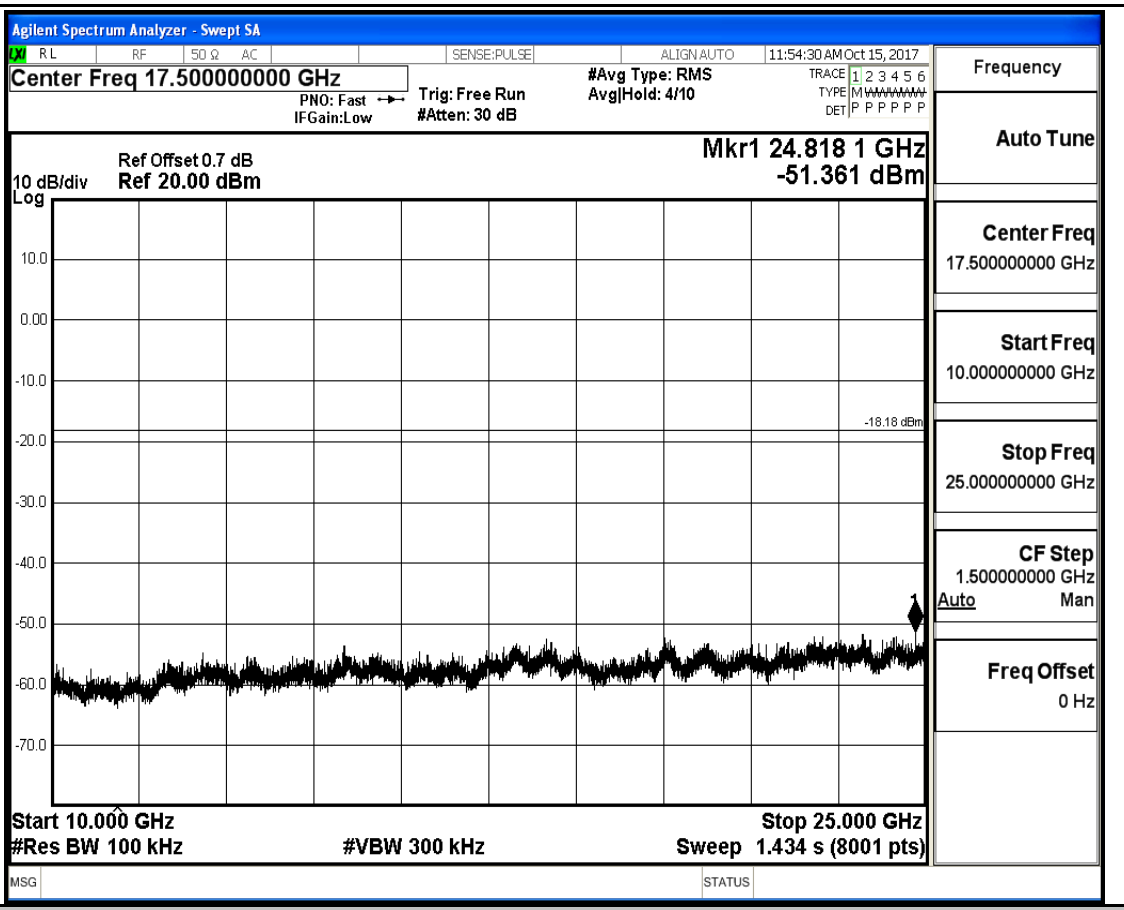

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
11:46:50 AM Oct 15, 2017
Center Freq 5.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 6/10
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P P
Ref Offset 0.7 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr2 2.640 9 GHz
-56.004 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-18.82 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 953.1 ms (8001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
10.000000000 GHz
CF Step
997.000000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
11:47:02 AM Oct 15, 2017
Center Freq 17.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 4/10
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P P
Ref Offset 0.7 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr1 23.198 1 GHz
-52.065 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-18.82 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.434 s (8001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
17.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
25.000000000 GHz
CF Step
1.500000000 GHz
Auto
Man
Freq Offset
0 Hz

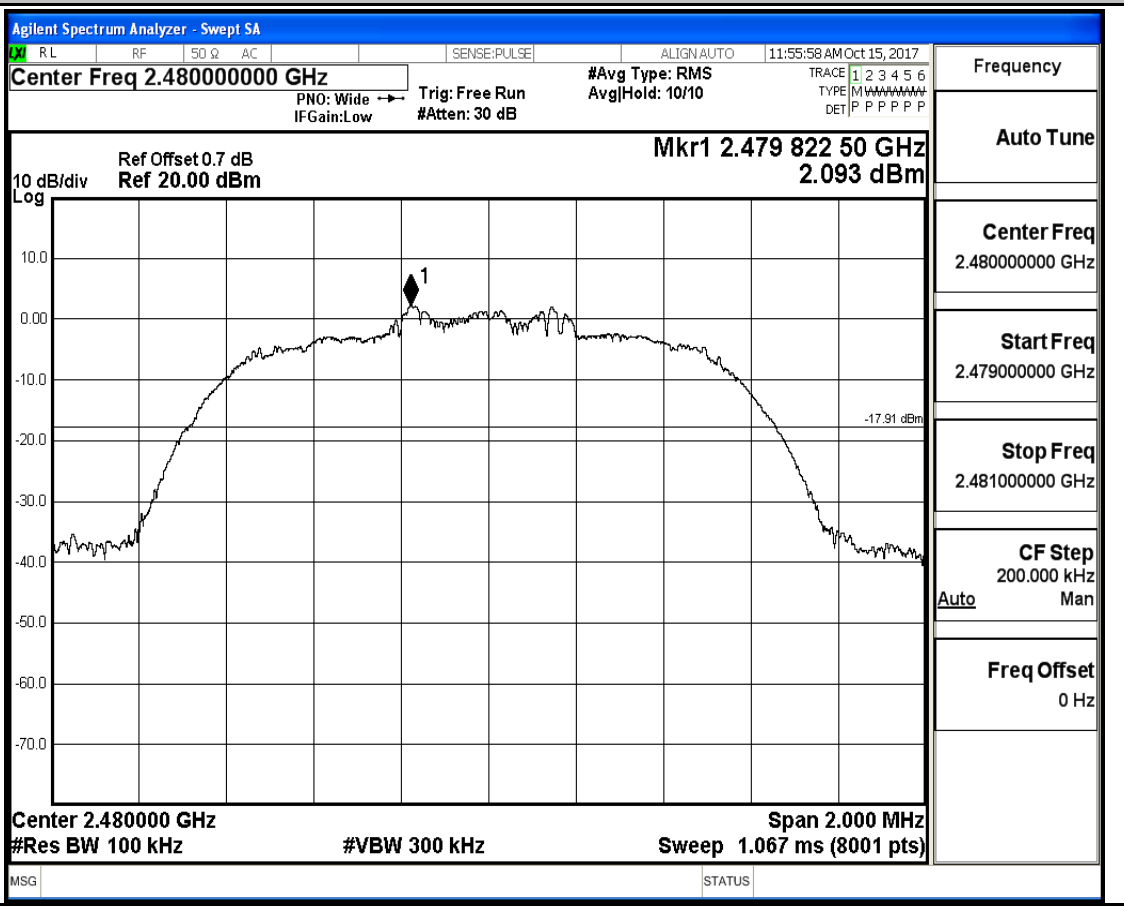
RF Conducted Spurious Emissions_2DH5_2441

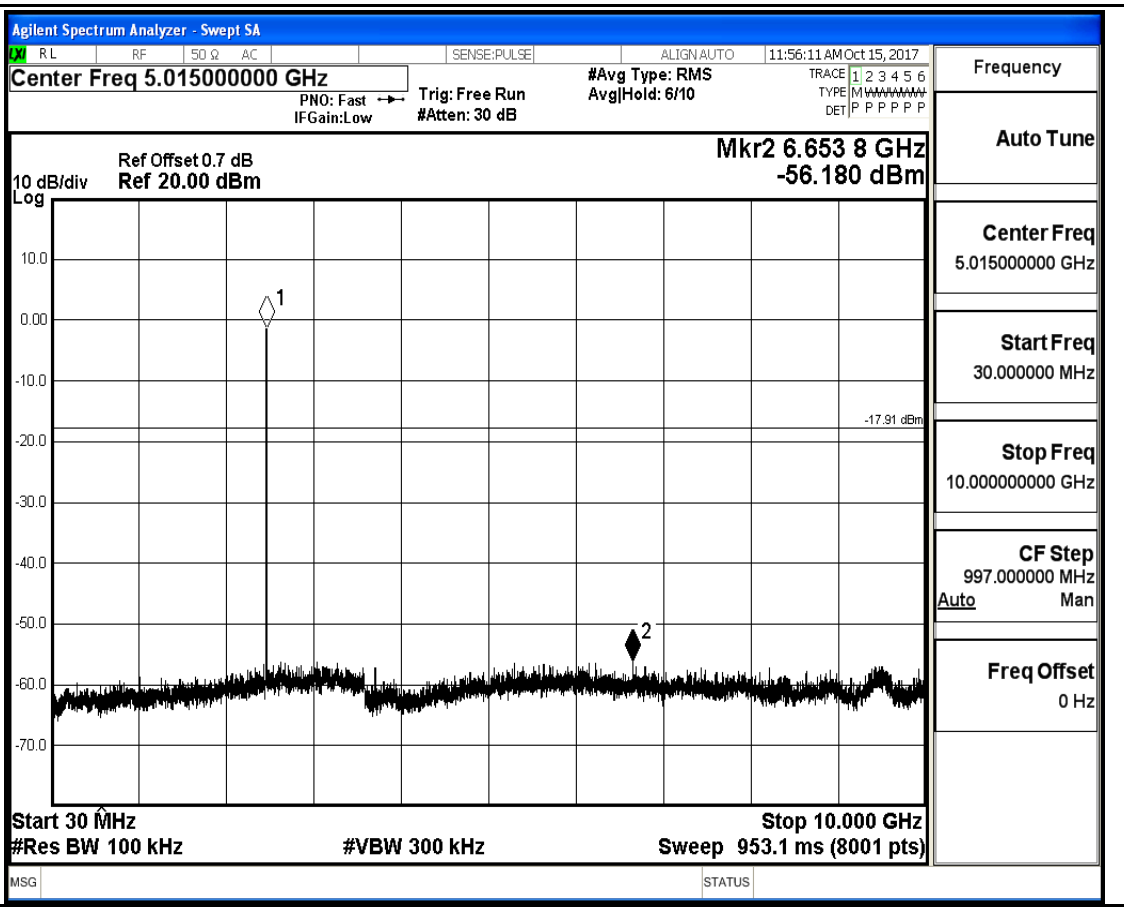


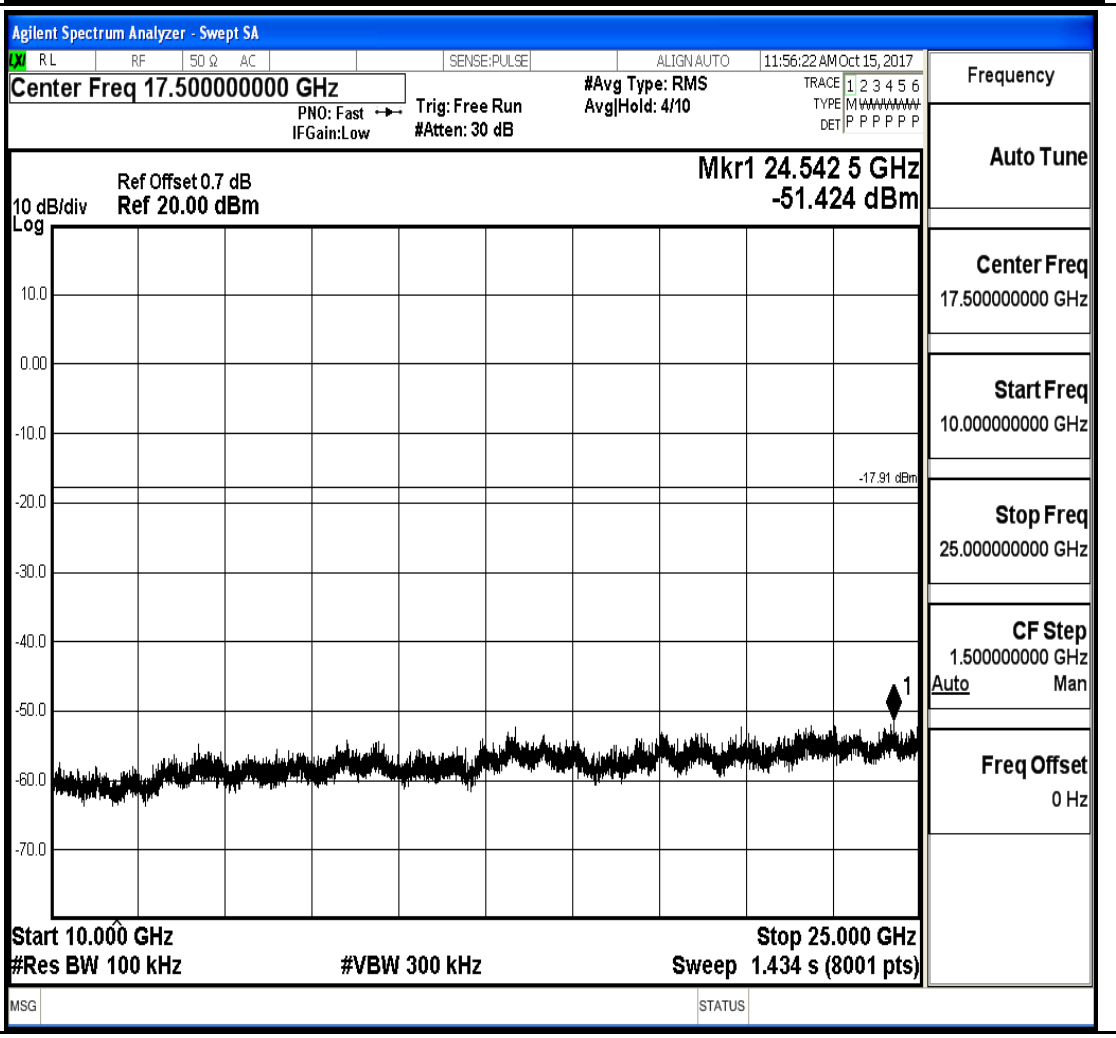




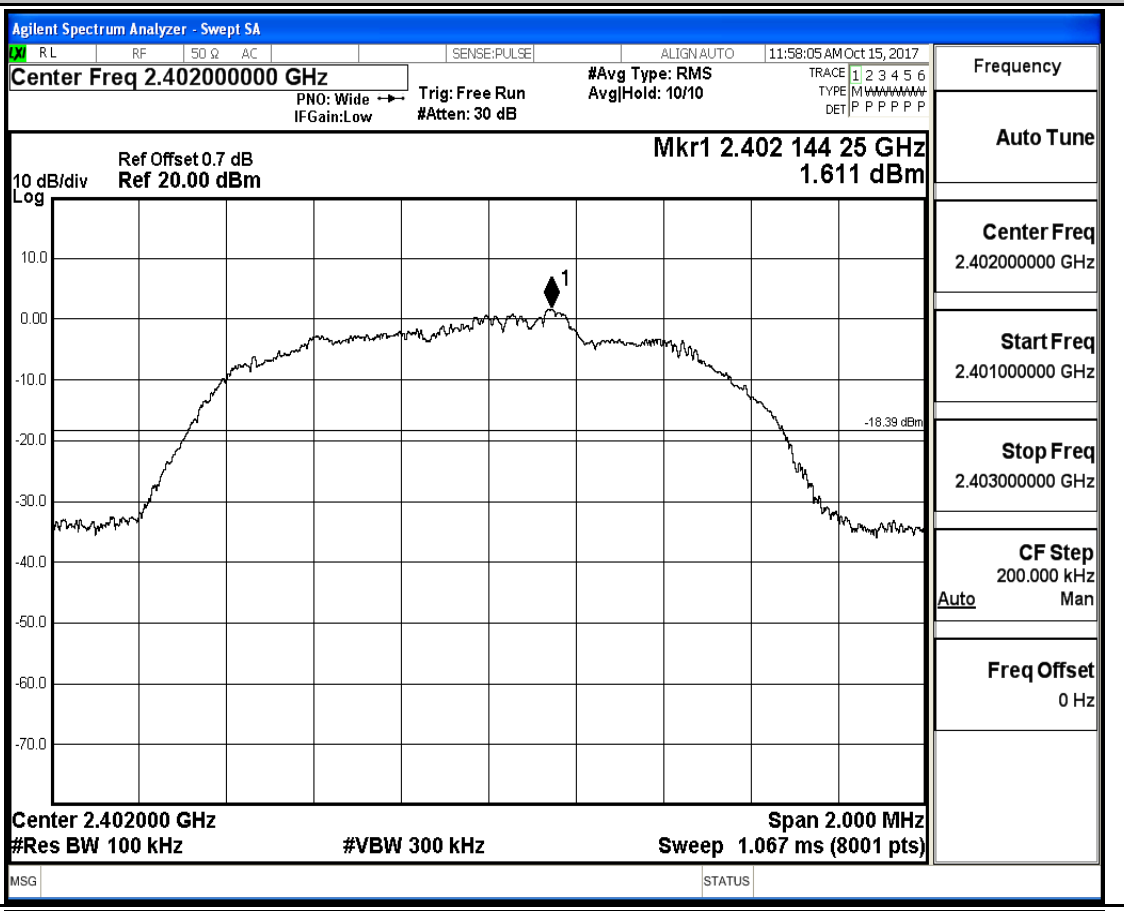
RF Conducted Spurious Emissions_2DH5_2480

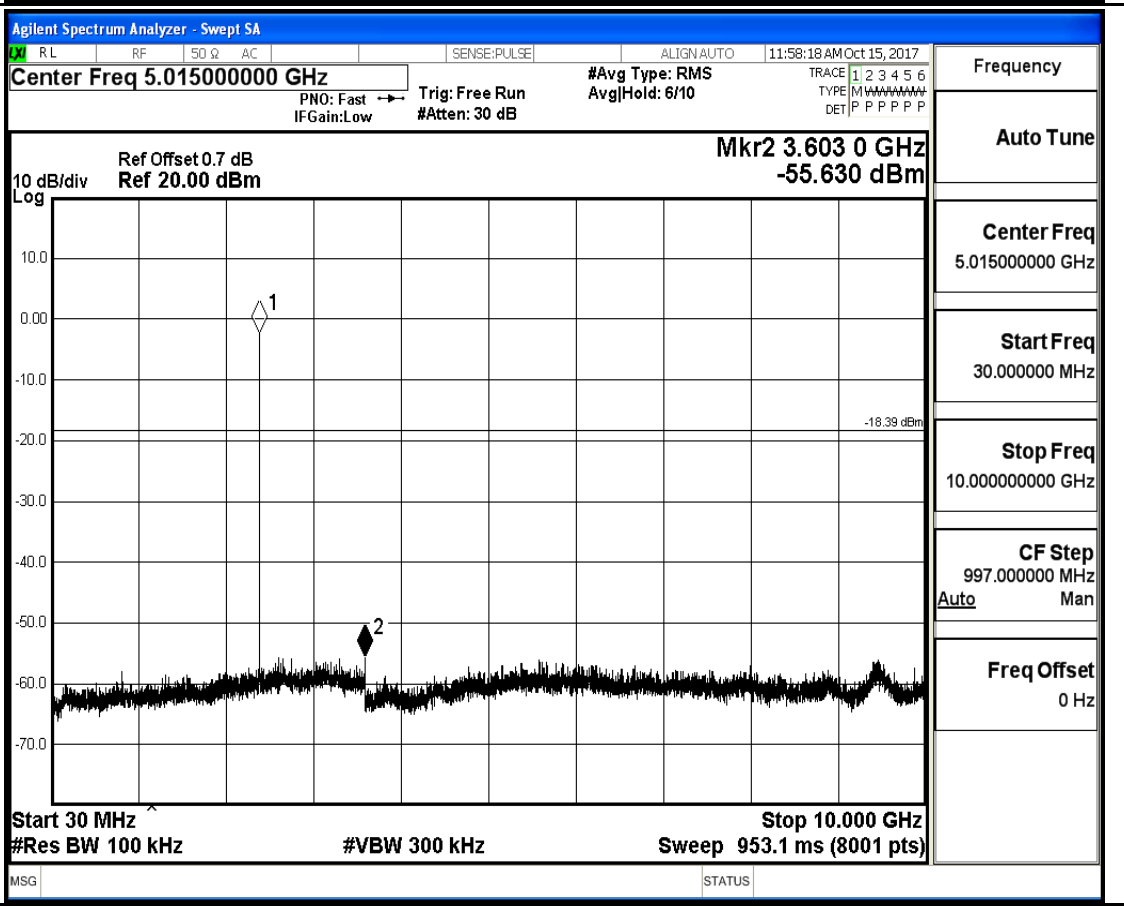


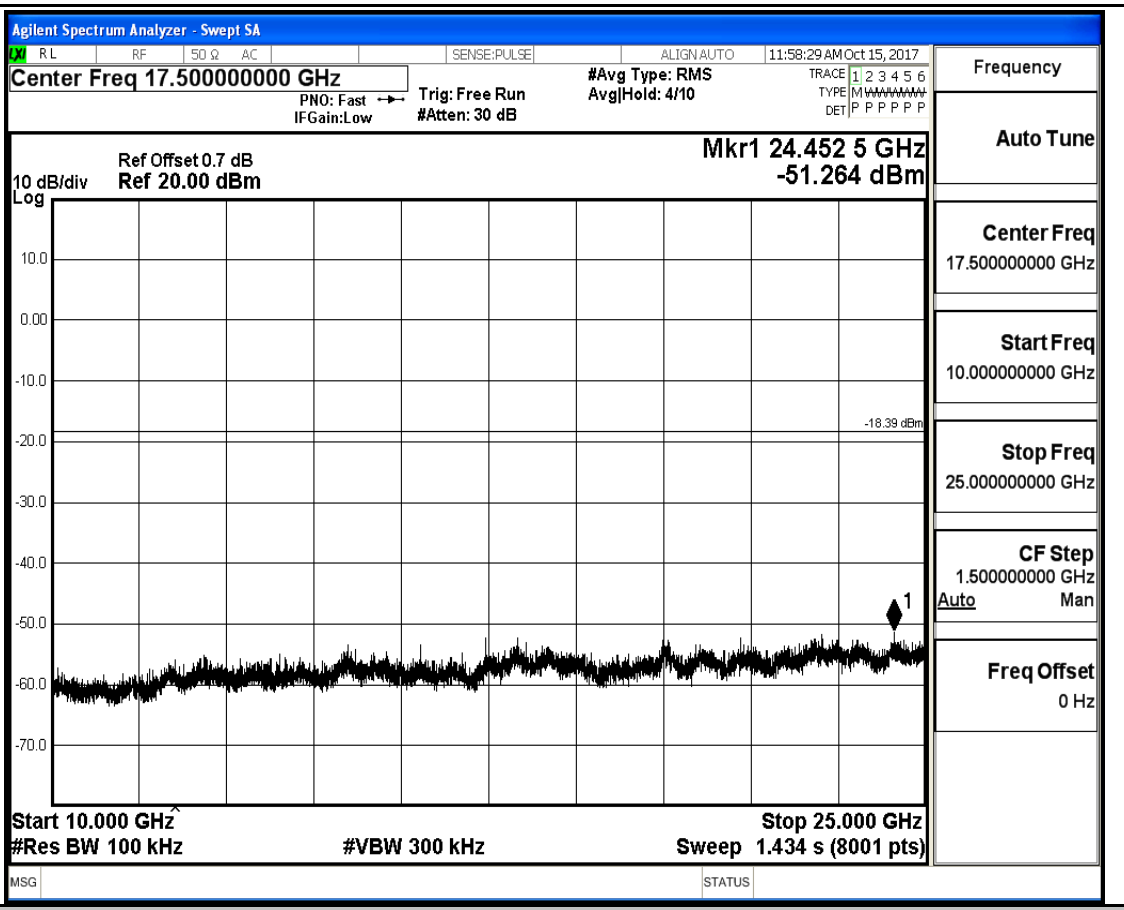

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
11:56:11 AM Oct 15, 2017
Center Freq 5.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 6/10
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P
Ref Offset 0.7 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr2 6.653 8 GHz
-56.180 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-17.91 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 953.1 ms (8001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
10.000000000 GHz
CF Step
997.000000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
11:56:22 AM Oct 15, 2017
Center Freq 17.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 4/10
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P
Ref Offset 0.7 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr1 24.542 5 GHz
-51.424 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-17.91 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.434 s (8001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
17.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
25.000000000 GHz
CF Step
1.500000000 GHz
Auto
Man
Freq Offset
0 Hz

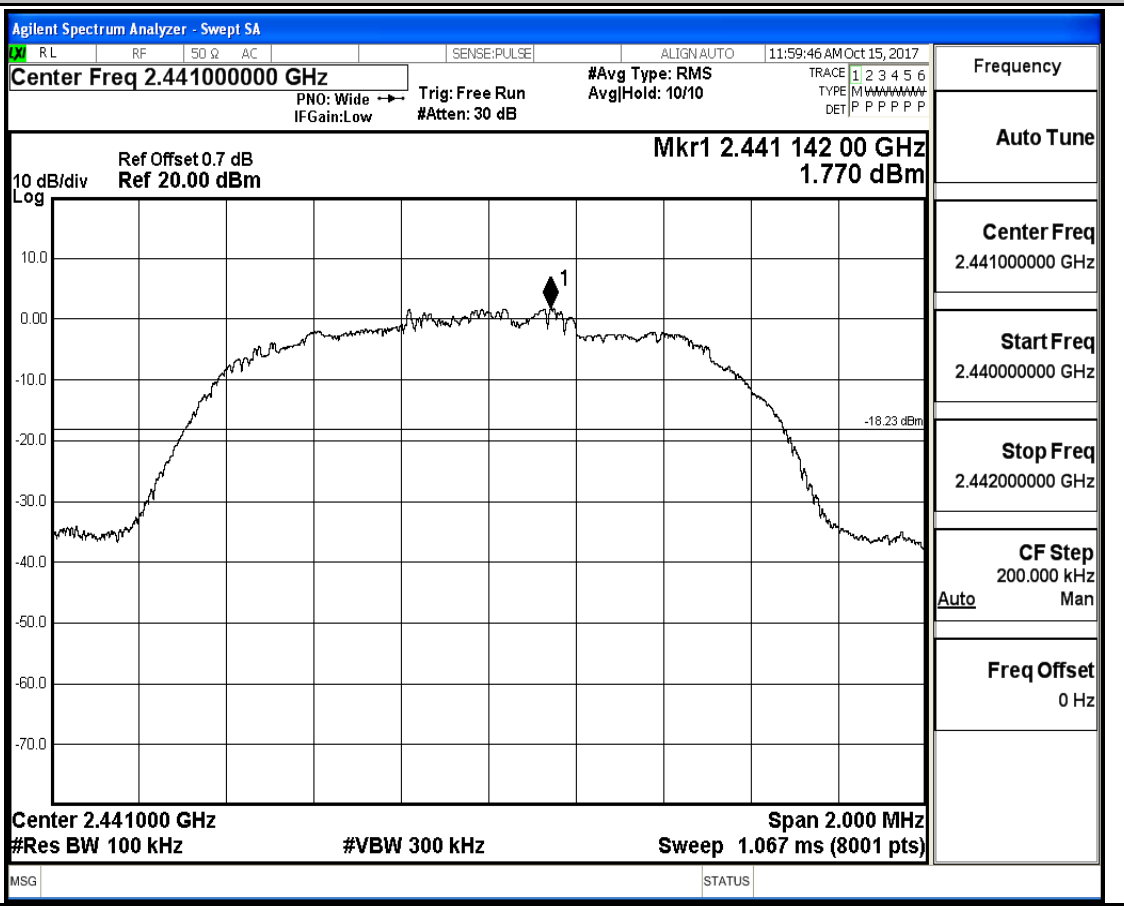
RF Conducted Spurious Emissions_3DH5_2402

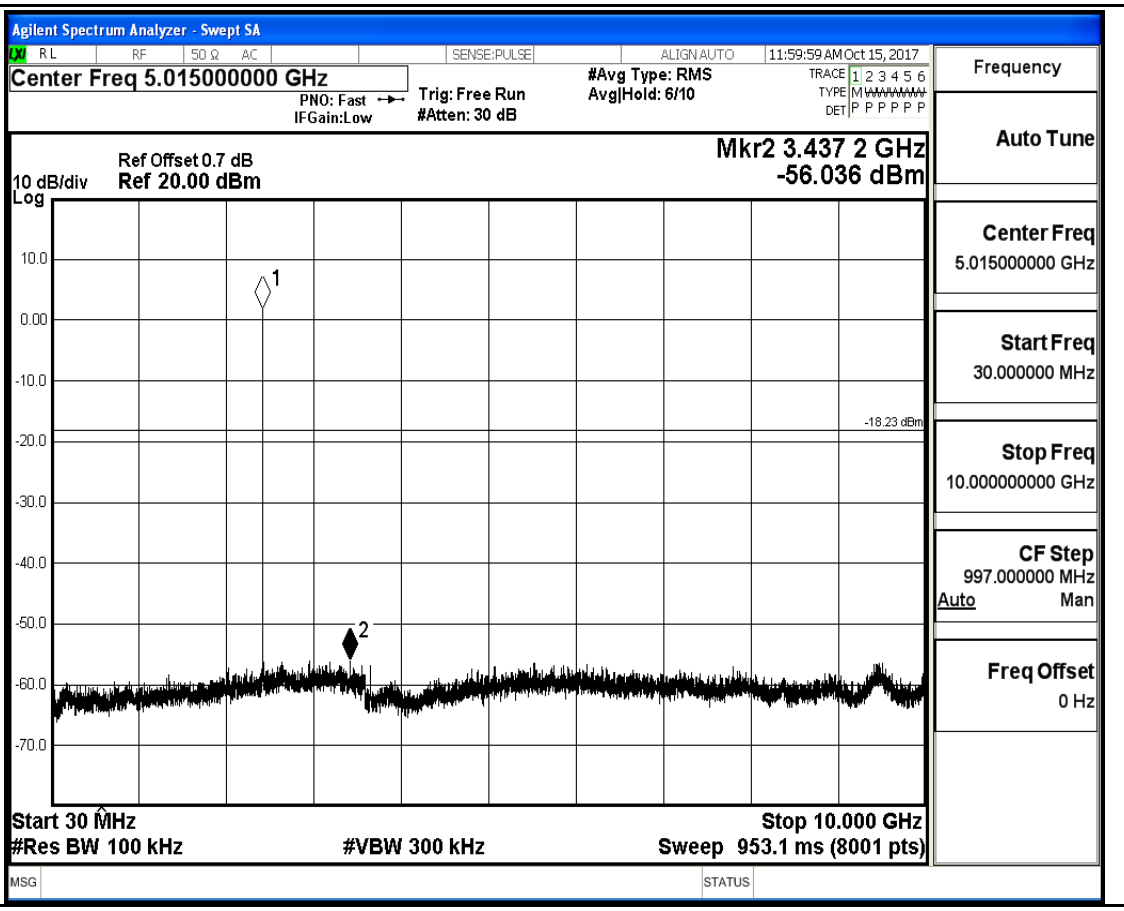


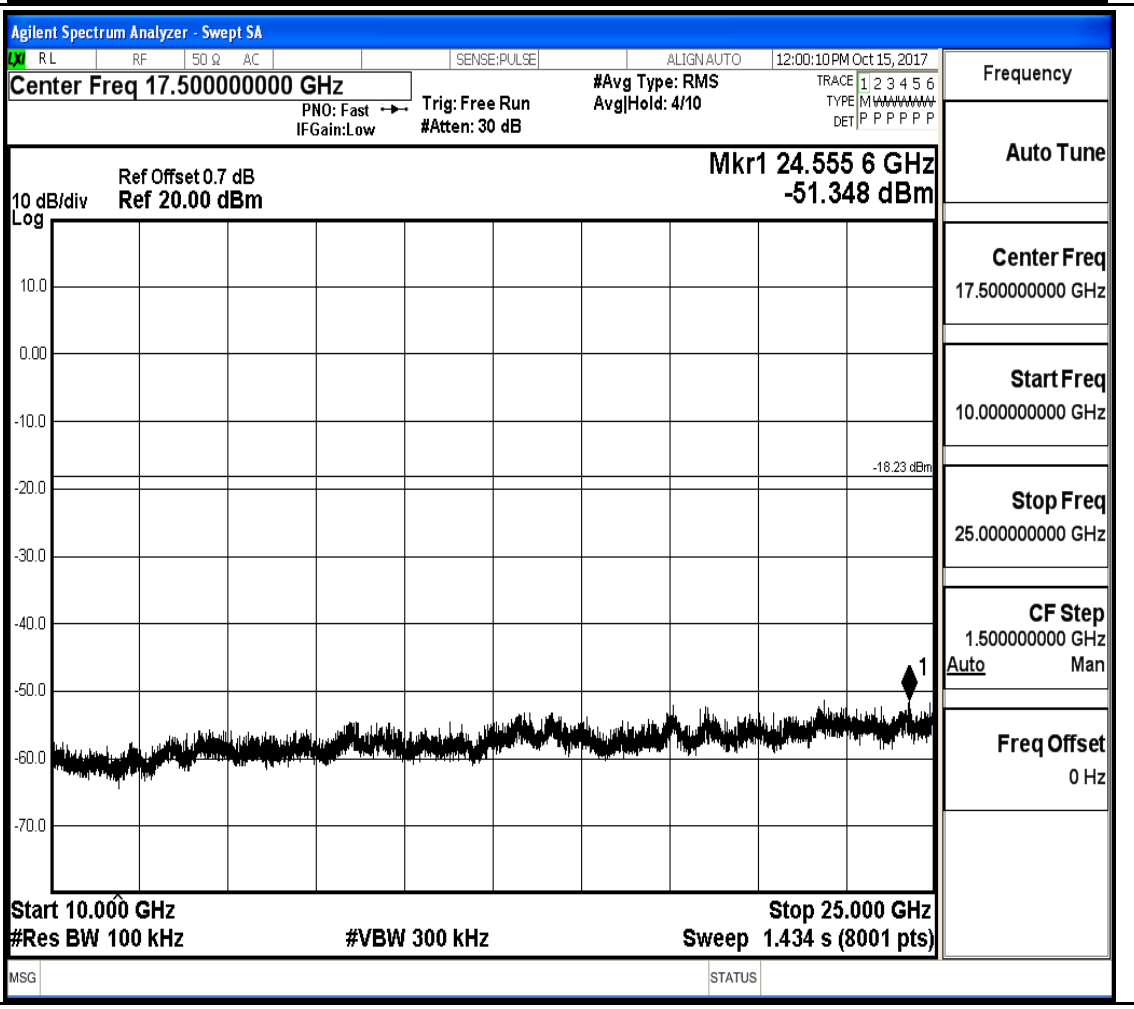




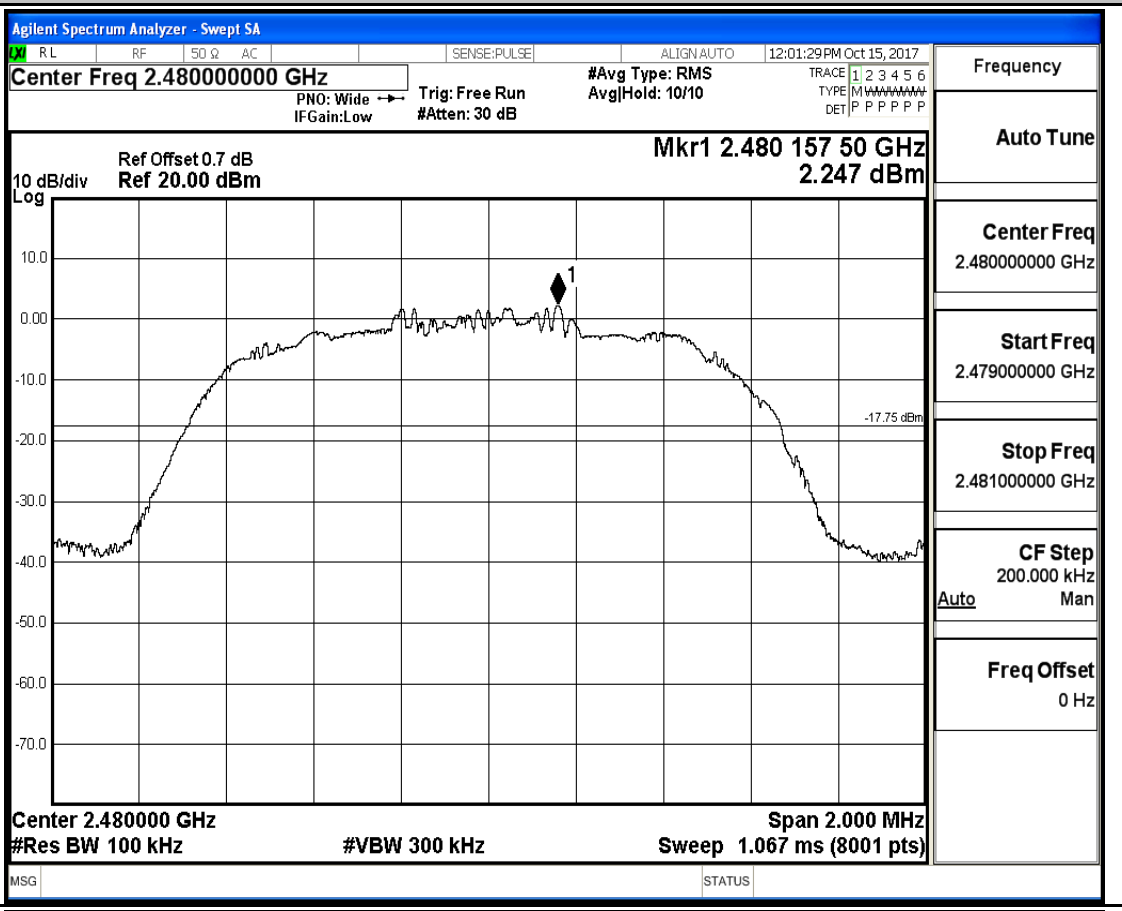
RF Conducted Spurious Emissions_3DH5_2441

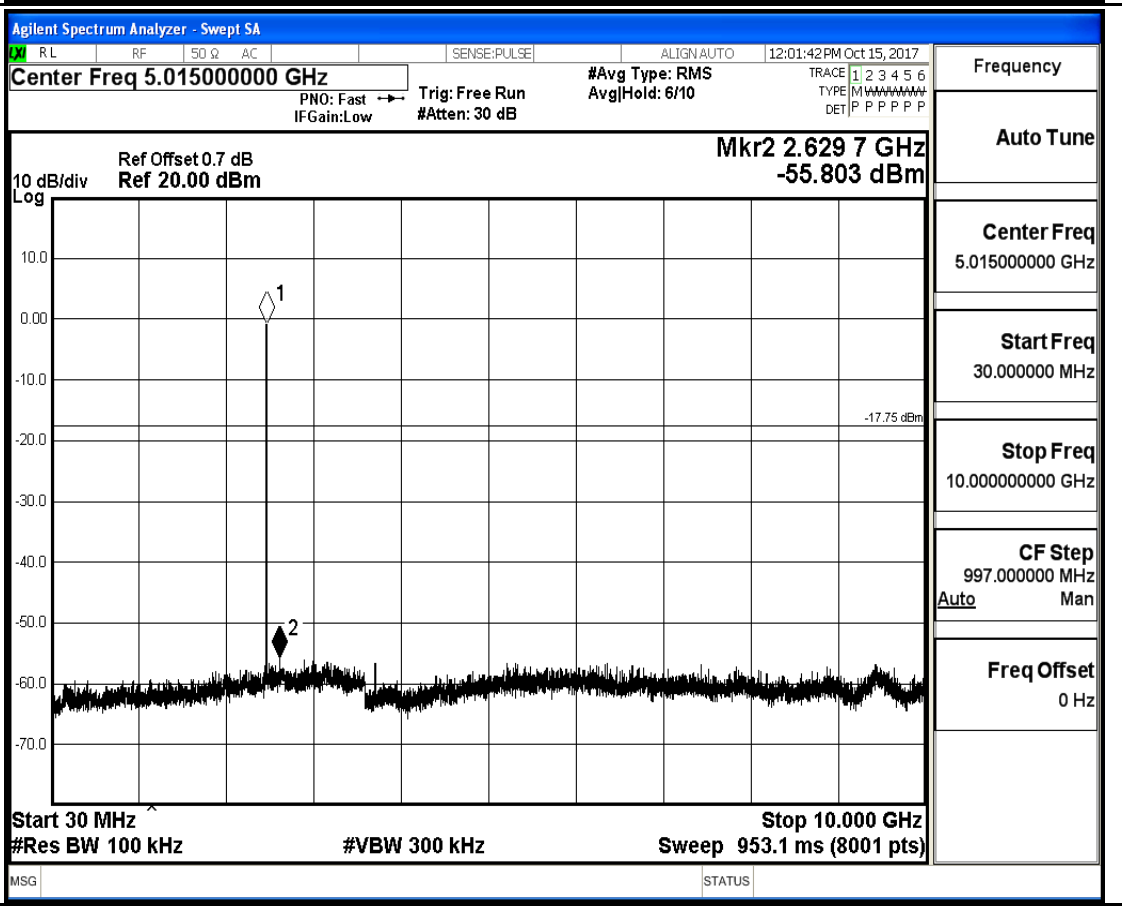


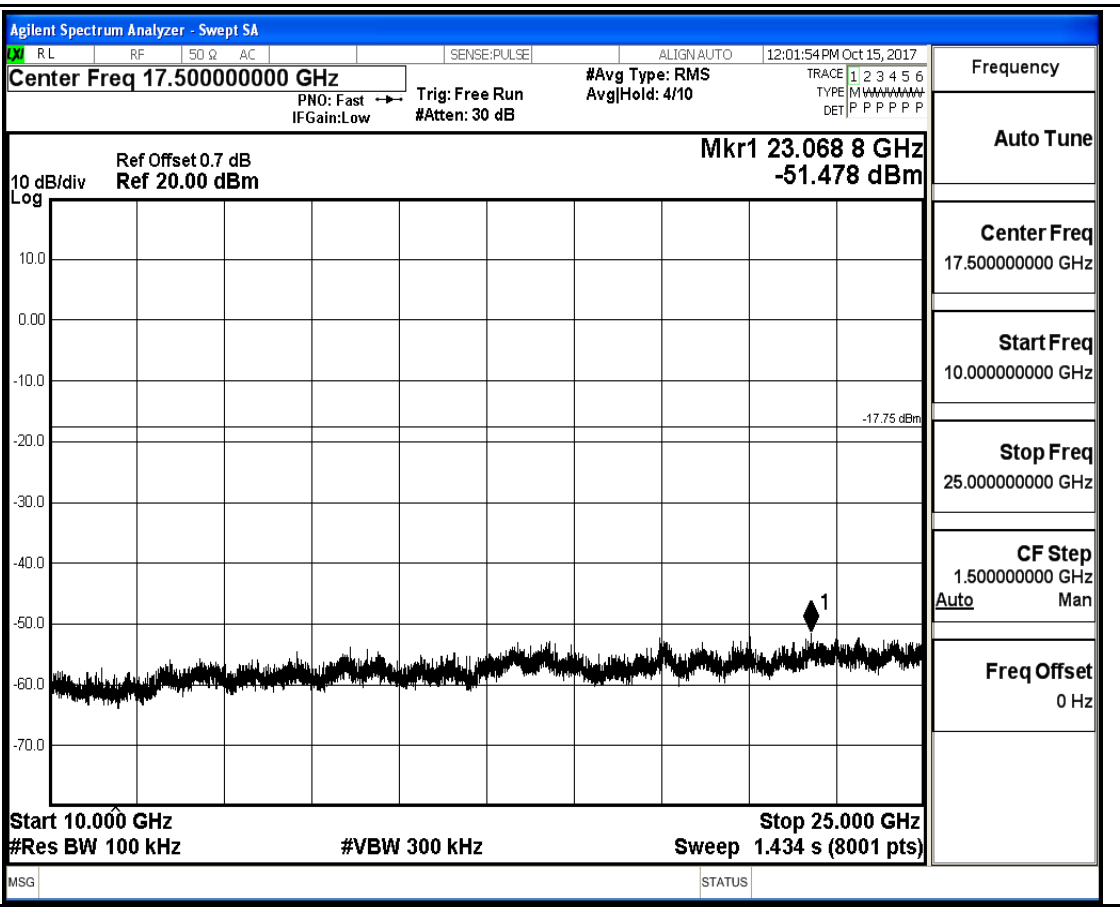

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
11:59:59 AM Oct 15, 2017
Center Freq 5.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 6/10
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P P
Ref Offset 0.7 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr2 3.437 2 GHz
-56.036 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-18.23 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 953.1 ms (8001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
10.000000000 GHz
CF Step
997.000000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
12:00:10 PM Oct 15, 2017
Center Freq 17.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 4/10
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P P
Ref Offset 0.7 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr1 24.555 6 GHz
-51.348 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-18.23 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.434 s (8001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
17.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
25.000000000 GHz
CF Step
1.500000000 GHz
Auto
Man
Freq Offset
0 Hz

RF Conducted Spurious Emissions_3DH5_2480



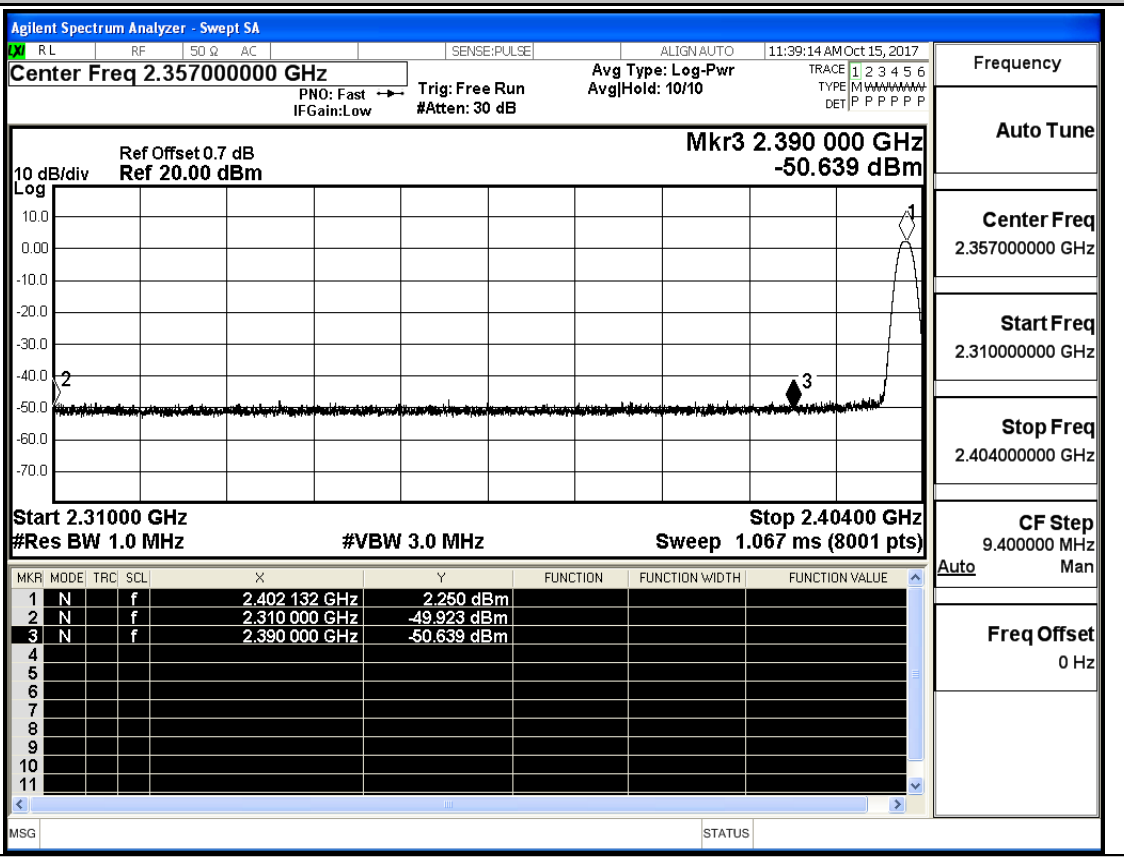




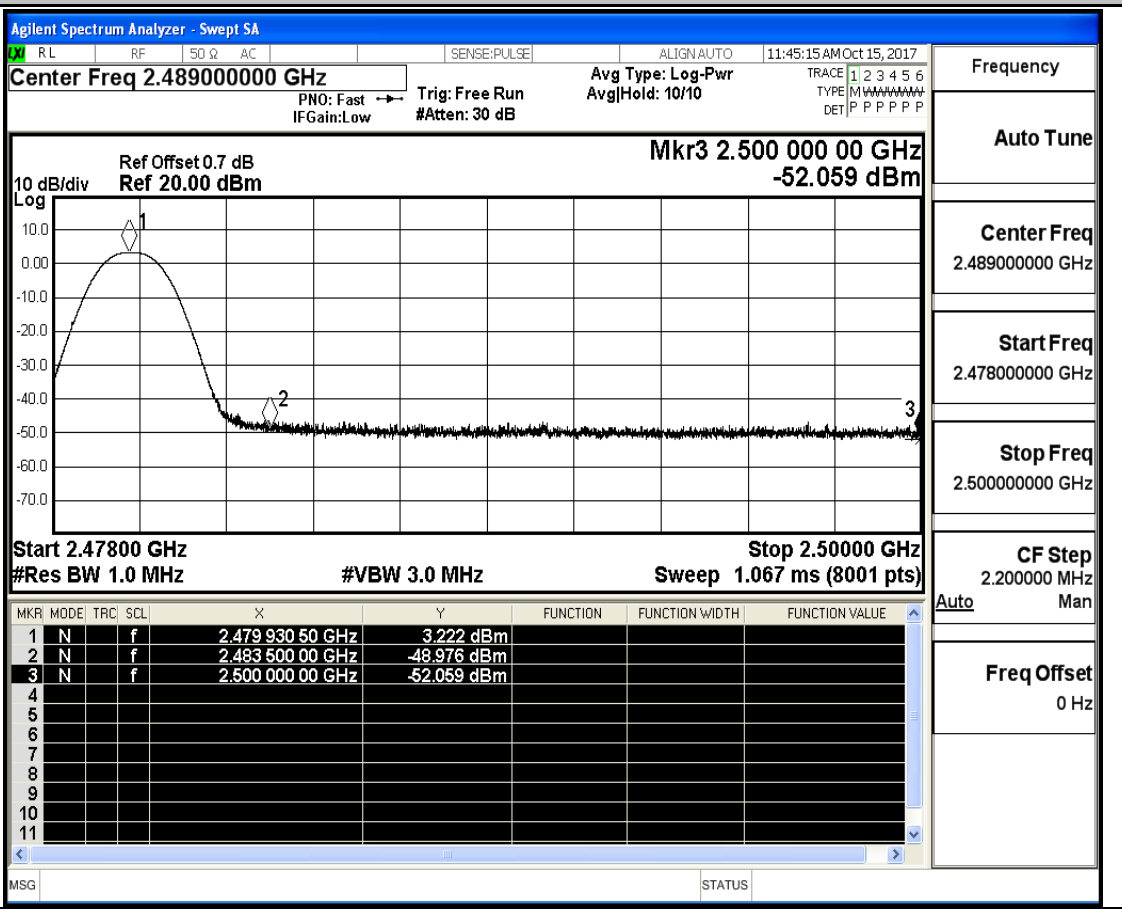
8.Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
DH5	On	2310.0	-49.92	2.00	0	47.33	PEAK	74	PASS
DH5	On	2390.0	-50.64	2.00	0	46.62	PEAK	74	PASS
DH5	On	2483.5	-48.98	2.00	0	48.28	PEAK	74	PASS
DH5	On	2500.0	-52.06	2.00	0	45.20	PEAK	74	PASS
2DH5	On	2310.0	-51.55	2.00	0	45.71	PEAK	74	PASS
2DH5	On	2390.0	-48.53	2.00	0	48.73	PEAK	74	PASS
2DH5	On	2483.5	-48.94	2.00	0	48.32	PEAK	74	PASS
2DH5	On	2500.0	-48.86	2.00	0	48.40	PEAK	74	PASS
3DH5	On	2310.0	-51.28	2.00	0	45.98	PEAK	74	PASS
3DH5	On	2390.0	-49.76	2.00	0	47.50	PEAK	74	PASS
3DH5	On	2483.5	-47.78	2.00	0	49.48	PEAK	74	PASS
3DH5	On	2500.0	-48.77	2.00	0	48.49	PEAK	74	PASS

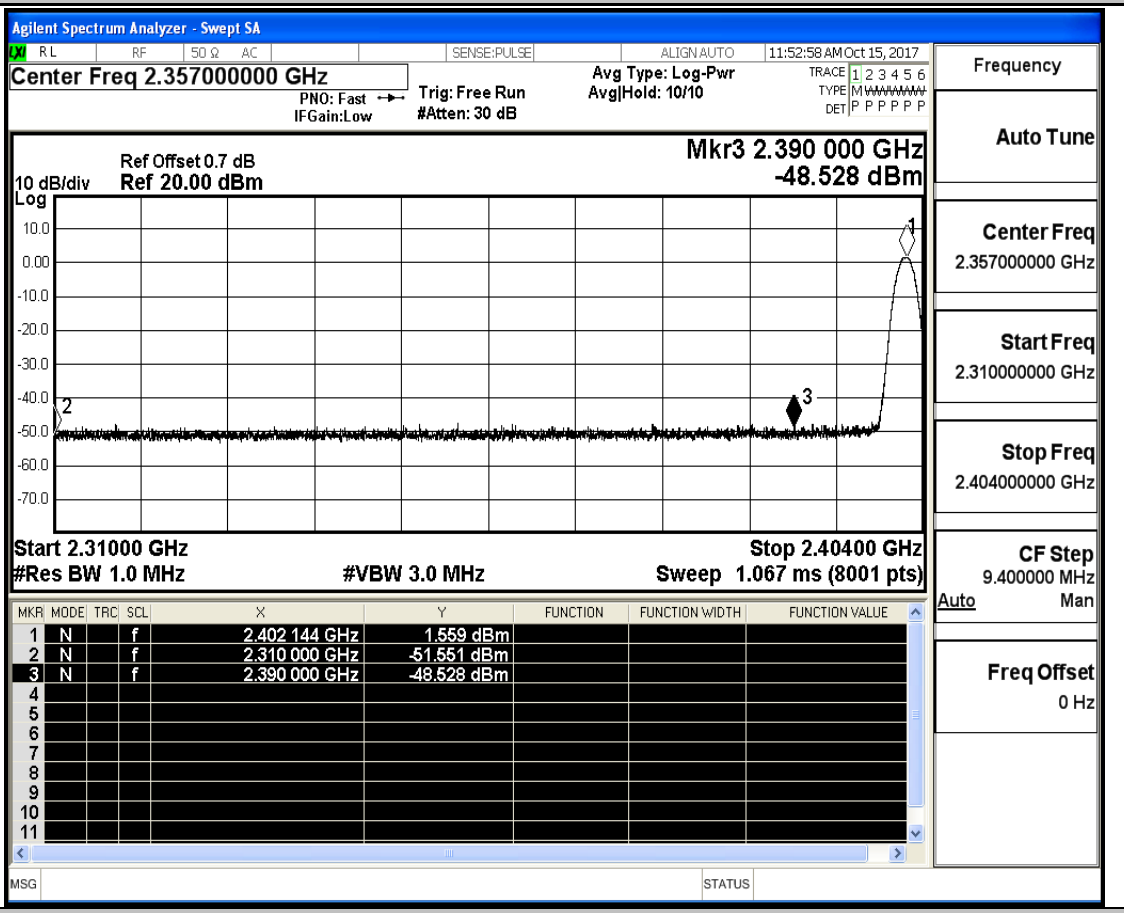
Restrict-band band-edge measurements_Hopping On_PEAK-DH5



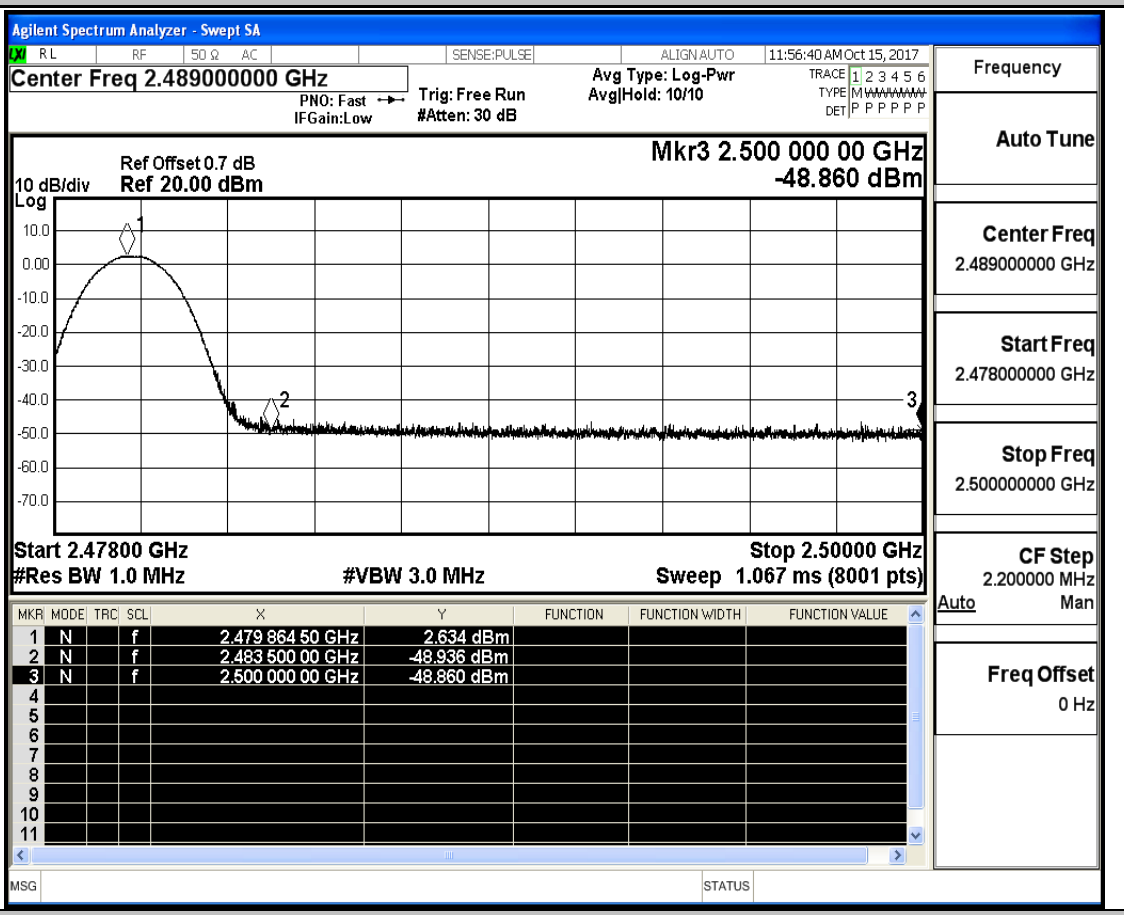
Restrict-band band-edge measurements_Hopping On_PEAK-DH5



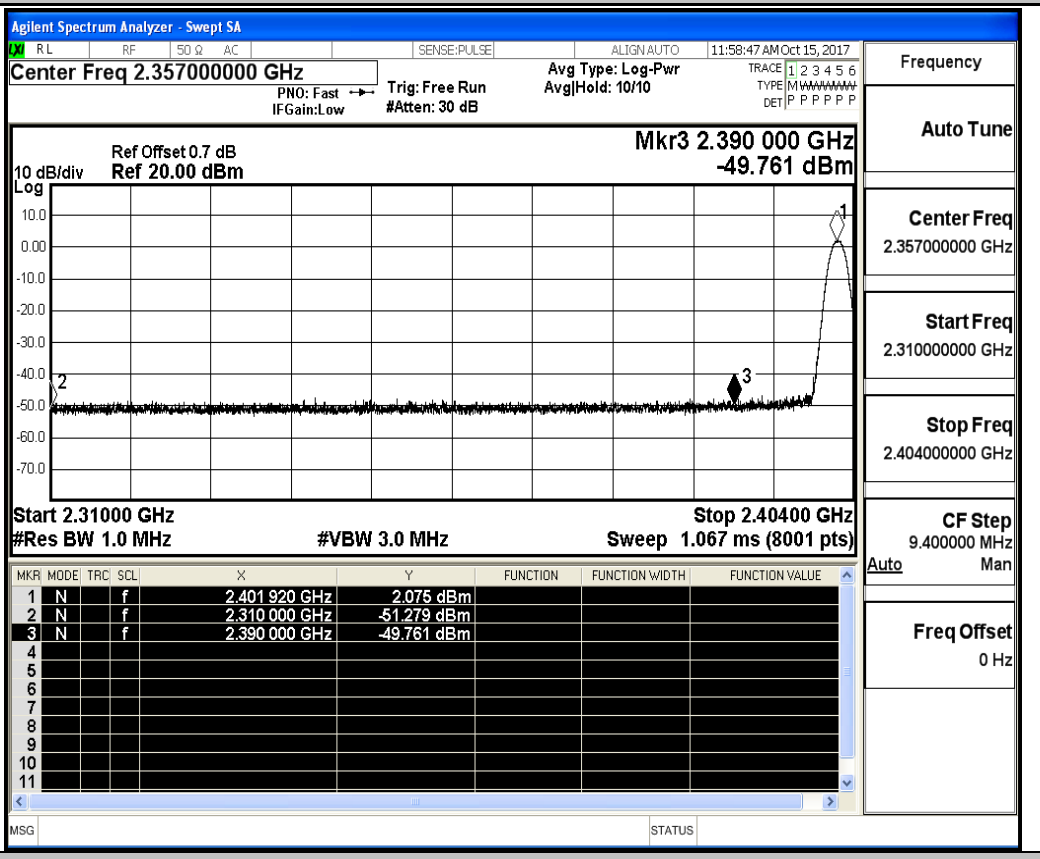
Restrict-band band-edge measurements_Hopping On_PEAK-2DH5



Restrict-band band-edge measurements_Hopping On_PEAK-2DH5



Restrict-band band-edge measurements_Hopping On_PEAK-3DH5



Restrict-band band-edge measurements_Hopping On_PEAK-3DH5