

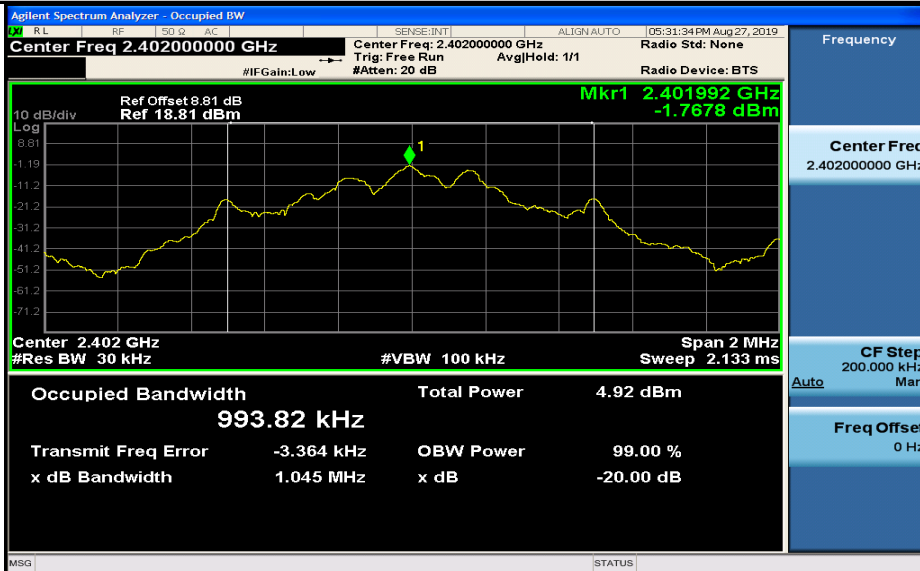


Appendix A SHEM190801642901

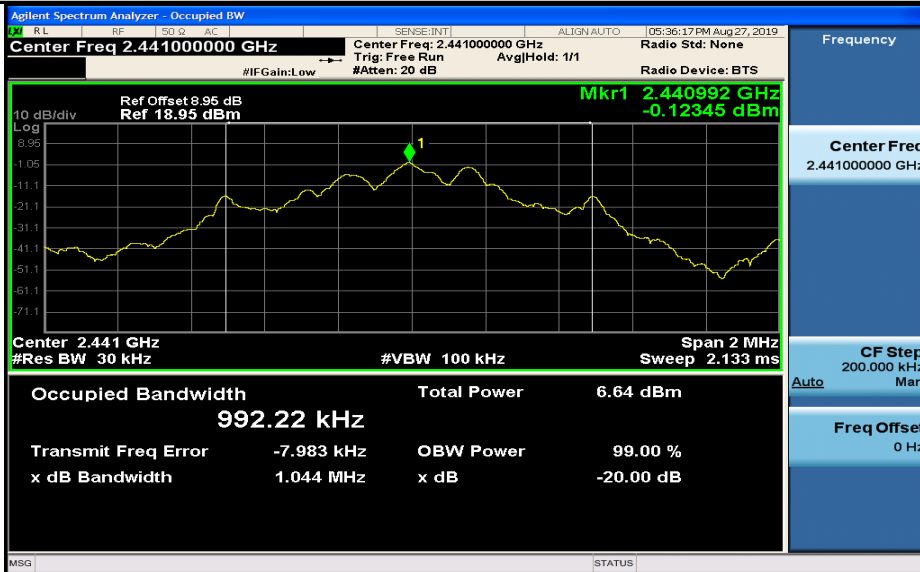
1.20 dB Bandwidth

Test Mode	Test Channel	EBW[MHz]	Limit[MHz]	Verdict
DH5	2402	1.05	---	PASS
DH5	2441	1.04	---	PASS
DH5	2480	1.04	---	PASS
2DH5	2402	1.17	---	PASS
2DH5	2441	1.16	---	PASS
2DH5	2480	1.16	---	PASS
3DH5	2402	1.17	---	PASS
3DH5	2441	1.18	---	PASS
3DH5	2480	1.17	---	PASS

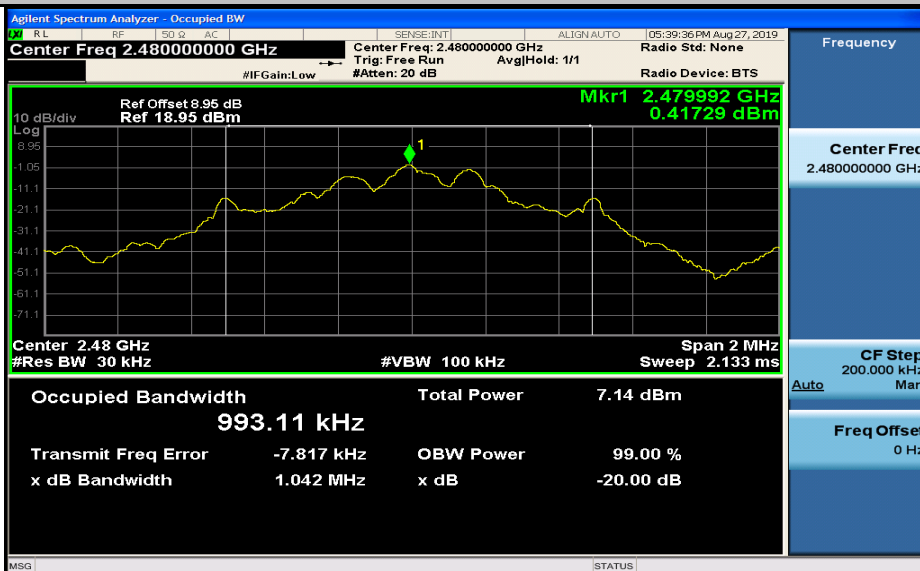
20 dB Bandwidth_DH5_2402



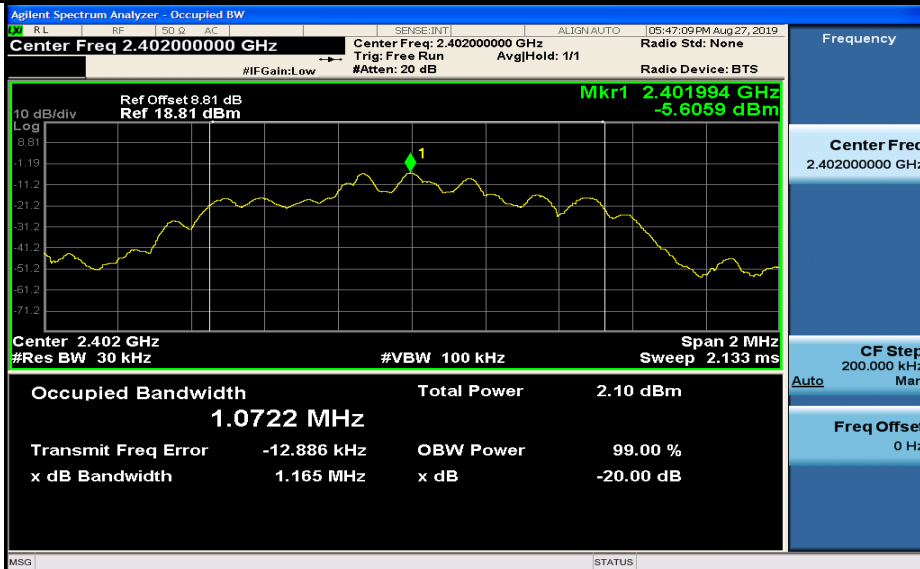
20 dB Bandwidth_DH5_2441



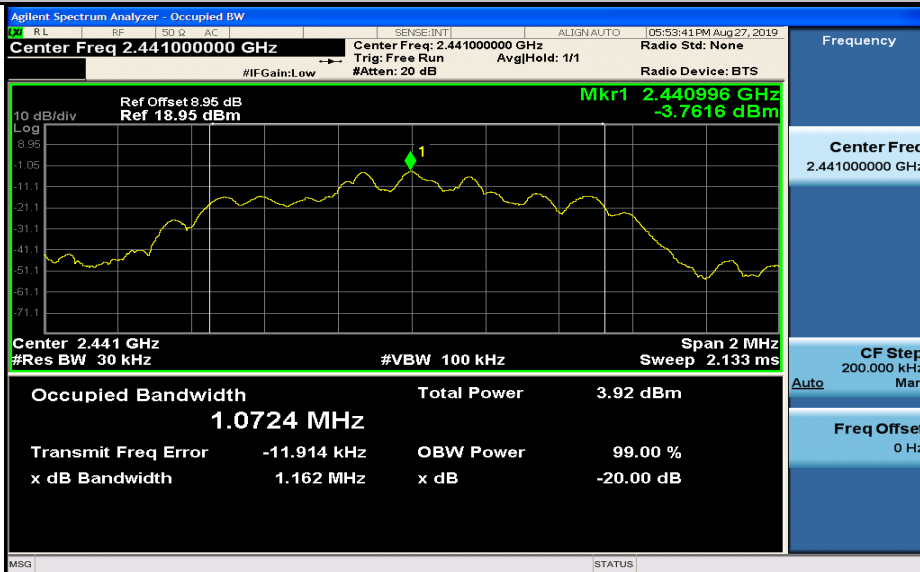
20 dB Bandwidth_DH5_2480



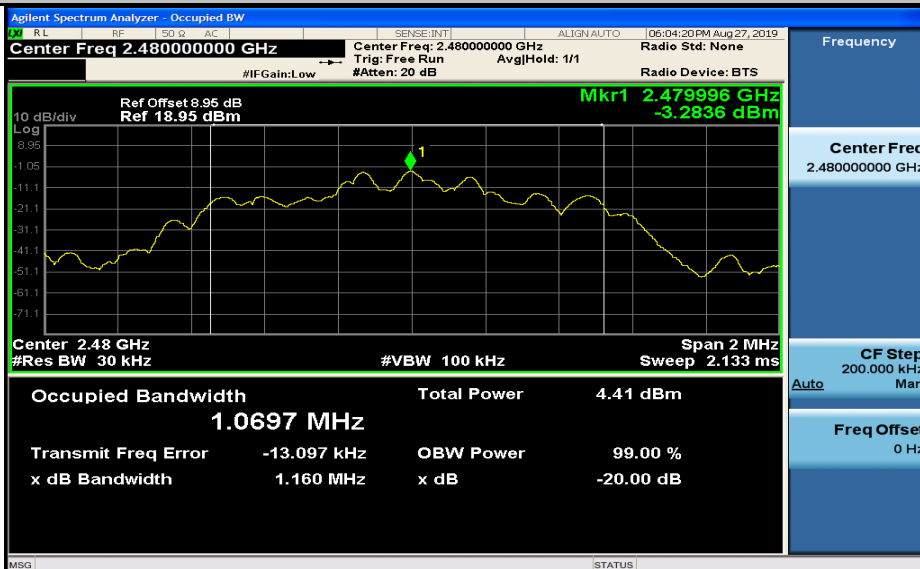
20 dB Bandwidth_2DH5_2402



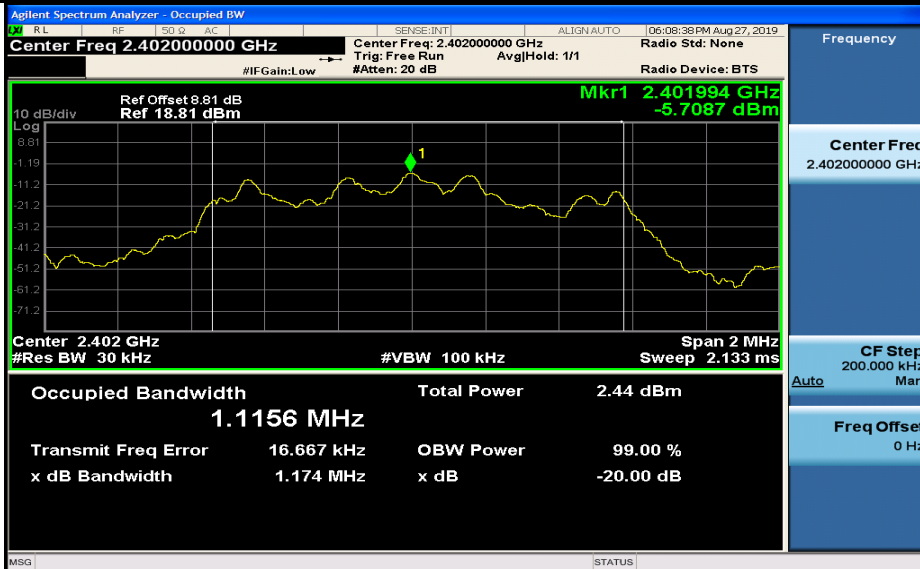
20 dB Bandwidth_2DH5_2441



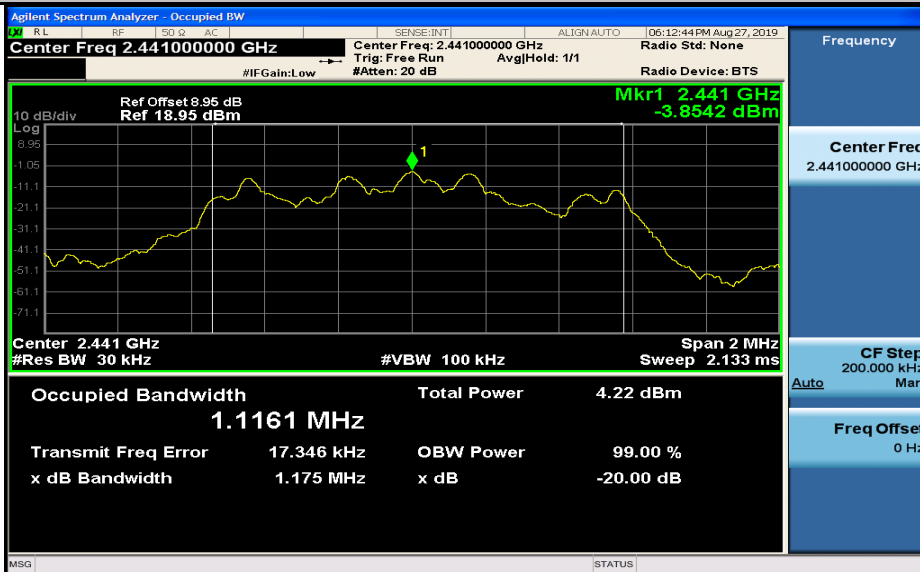
20 dB Bandwidth_2DH5_2480



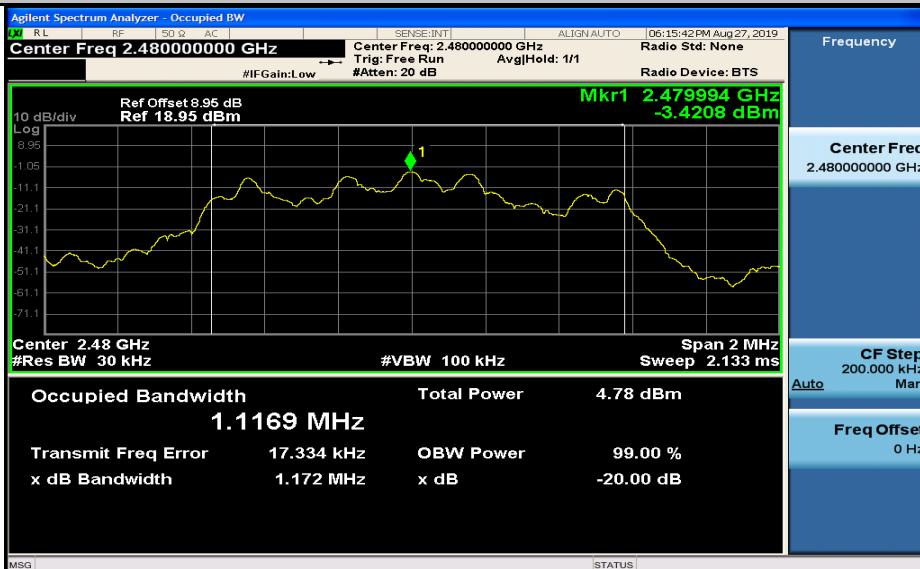
20 dB Bandwidth_3DH5_2402



20 dB Bandwidth_3DH5_2441



20 dB Bandwidth_3DH5_2480

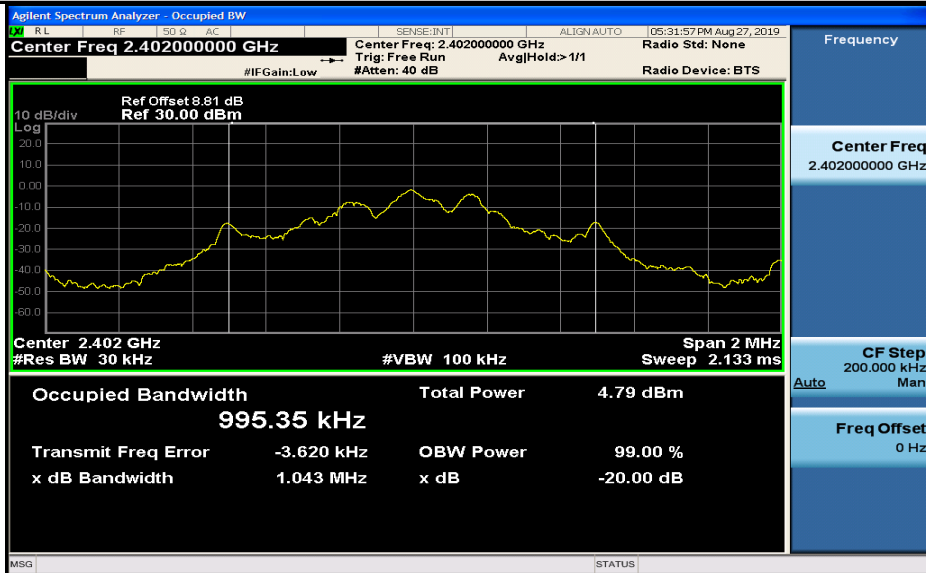




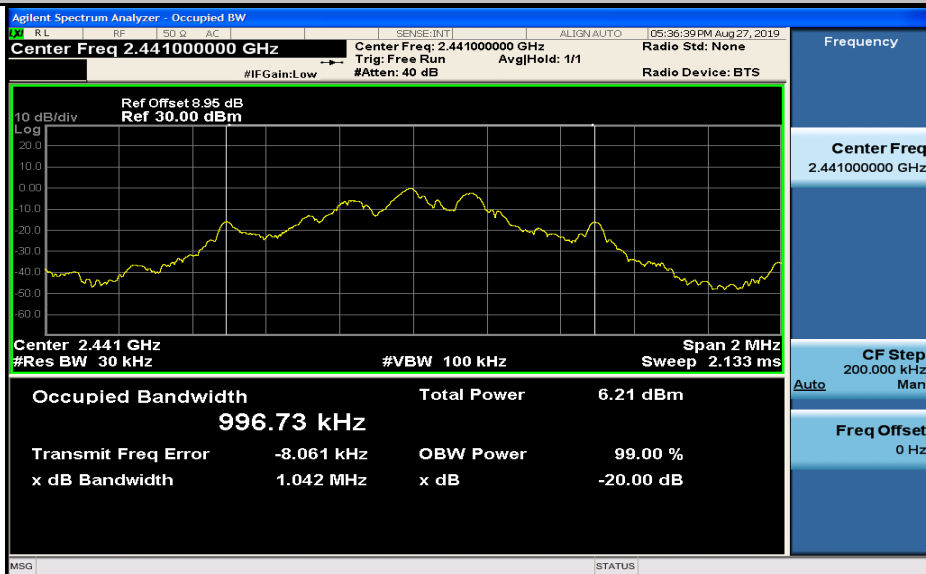
2.Occupied Bandwidth

Test Mode	Test Channel	OBW[MHz]	Limit[MHz]	Verdict
DH5	2402	1.00	---	PASS
DH5	2441	1.00	---	PASS
DH5	2480	1.00	---	PASS
2DH5	2402	1.07	---	PASS
2DH5	2441	1.07	---	PASS
2DH5	2480	1.07	---	PASS
3DH5	2402	1.12	---	PASS
3DH5	2441	1.11	---	PASS
3DH5	2480	1.12	---	PASS

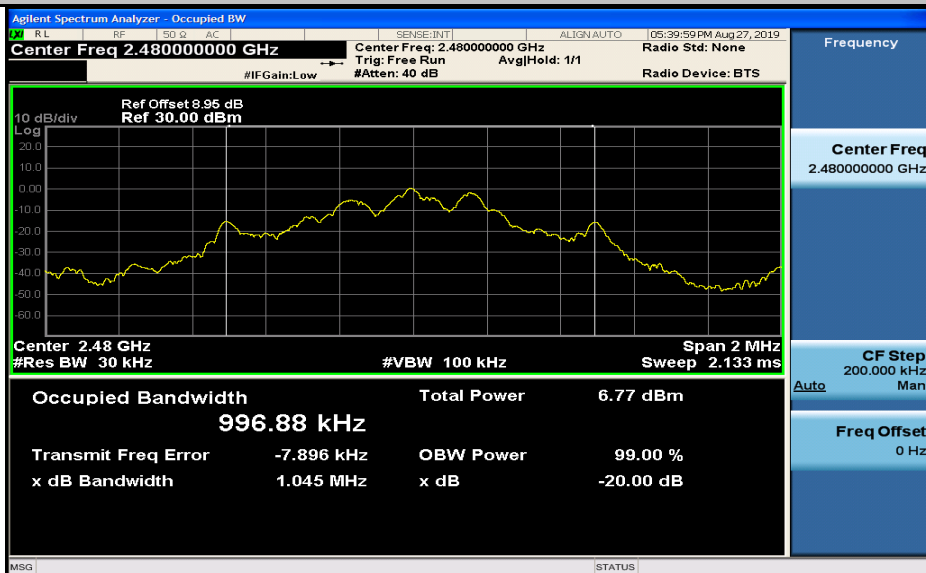
Occupied Bandwidth_DH5_2402



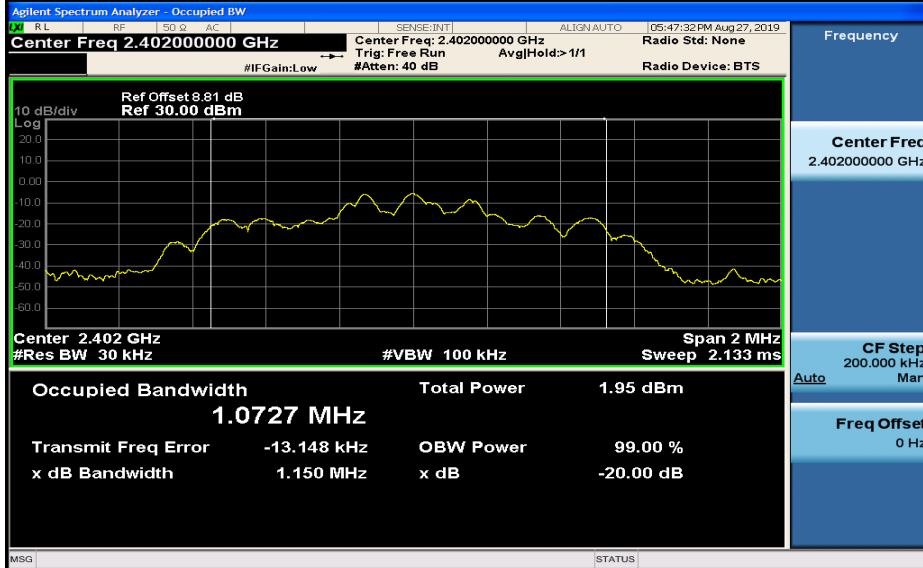
Occupied Bandwidth_DH5_2441



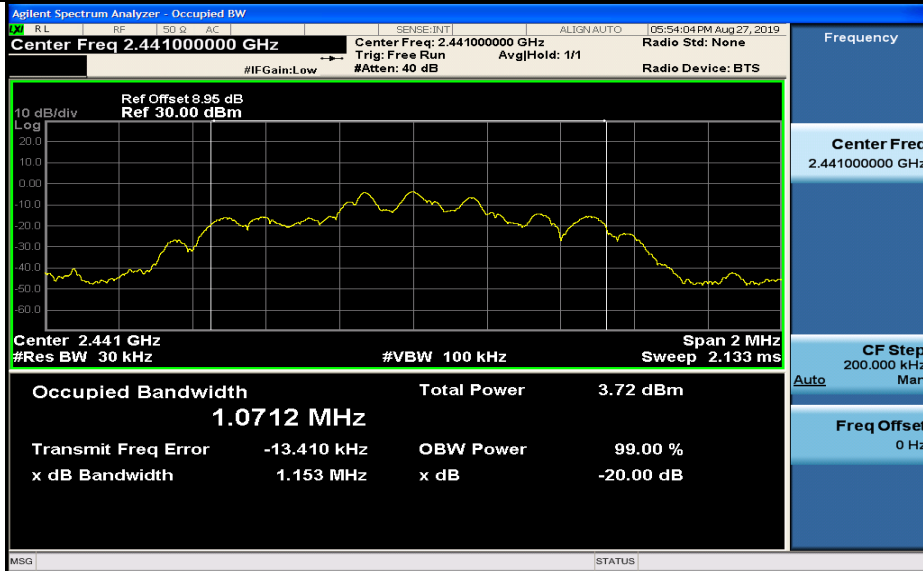
Occupied Bandwidth_DH5_2480



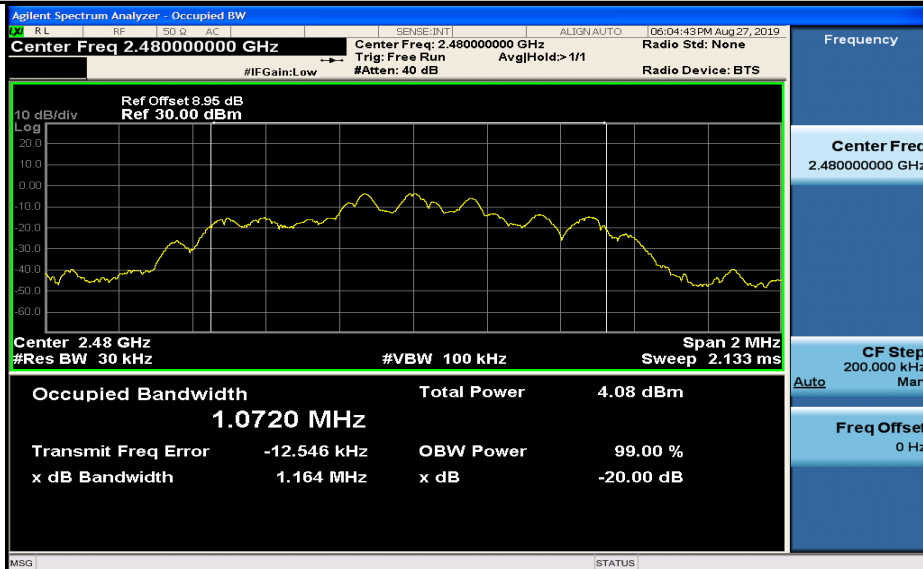
Occupied Bandwidth_2DH5_2402



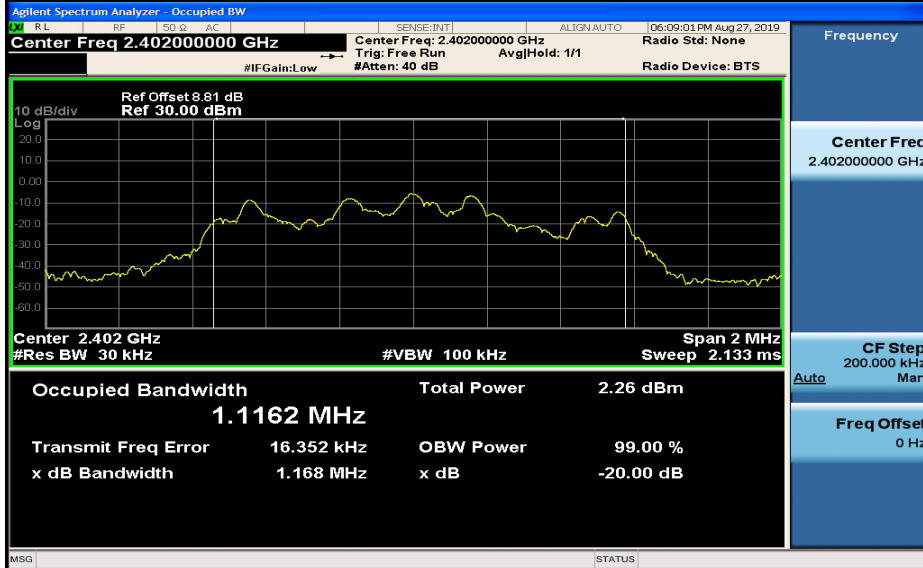
Occupied Bandwidth_2DH5_2441



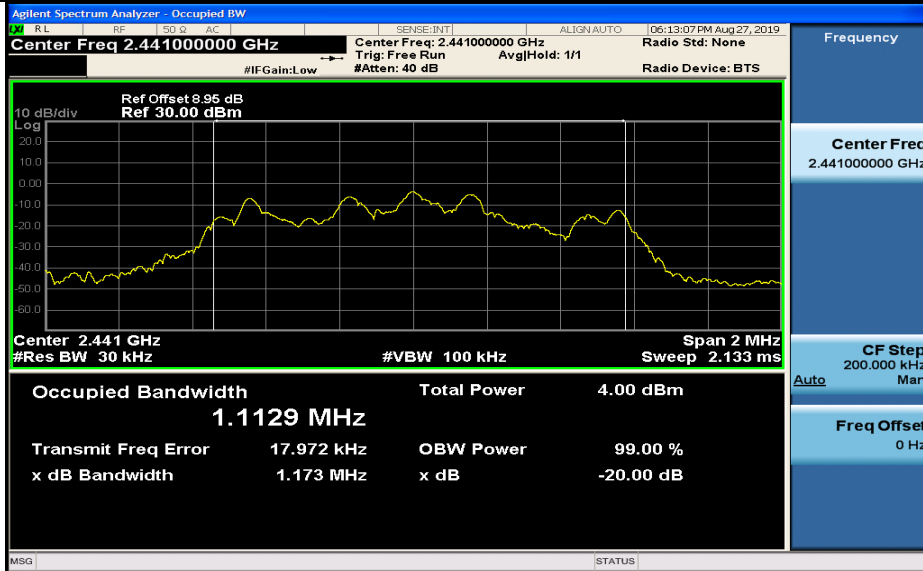
Occupied Bandwidth_2DH5_2480



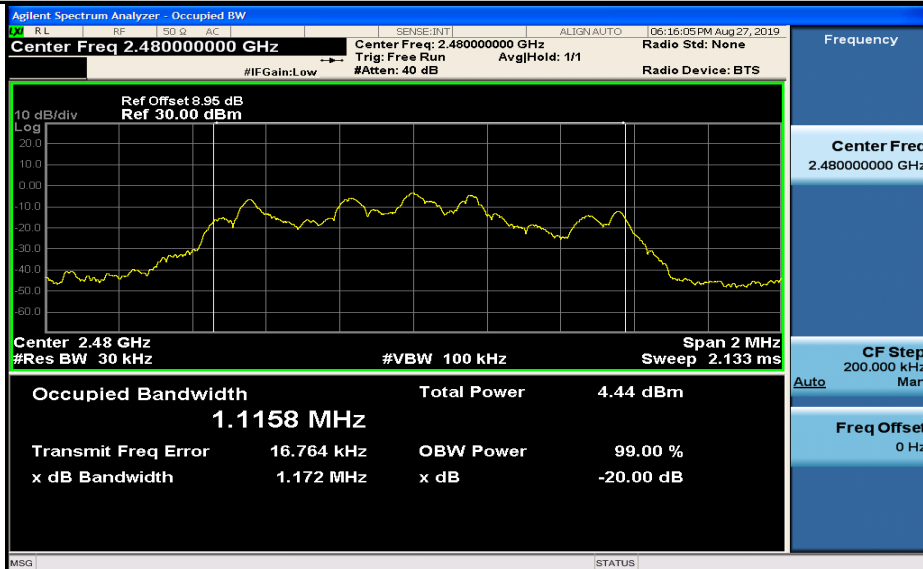
Occupied Bandwidth_3DH5_2402



Occupied Bandwidth_3DH5_2441



Occupied Bandwidth_3DH5_2480

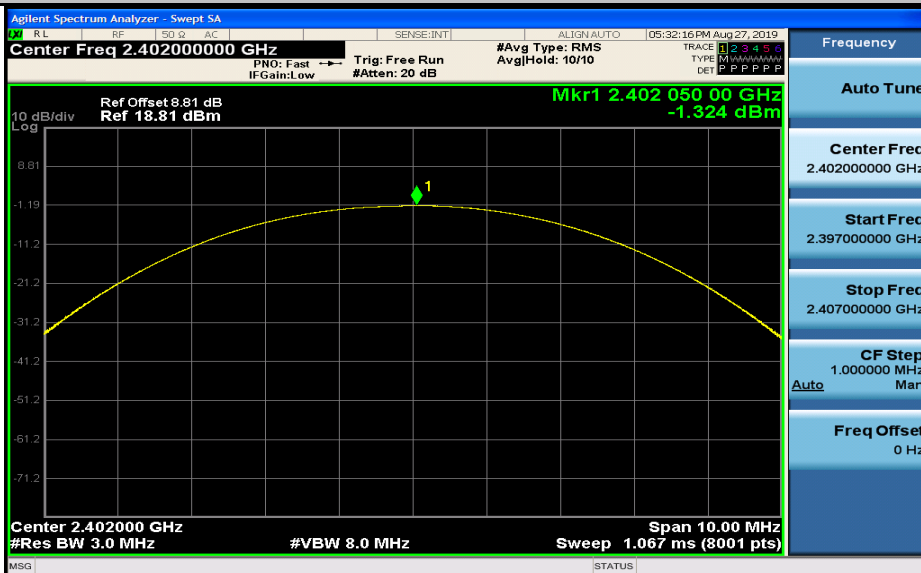




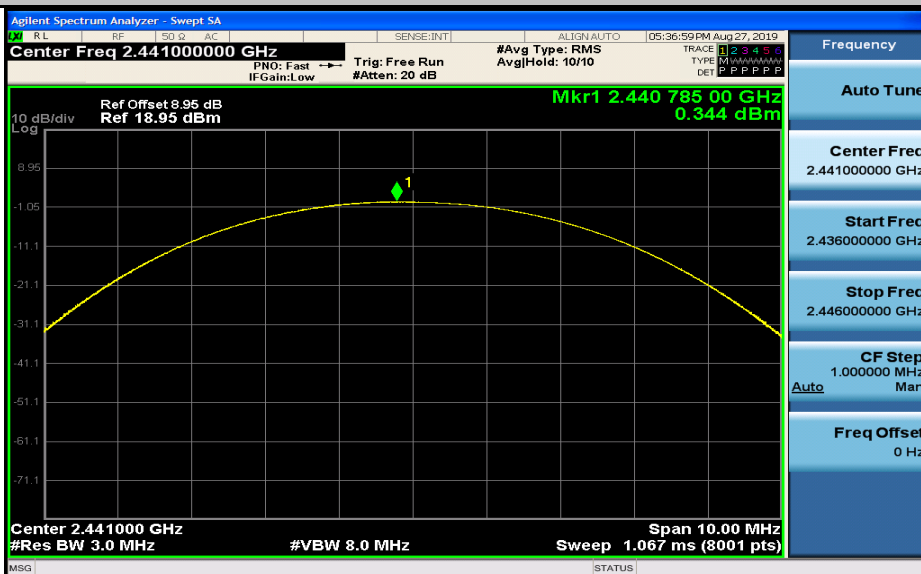
3.Conducted Peak Output Power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
DH5	2402	-1.32	21	PASS
DH5	2441	0.34	21	PASS
DH5	2480	0.87	21	PASS
2DH5	2402	-3.93	21	PASS
2DH5	2441	-2.13	21	PASS
2DH5	2480	-1.63	21	PASS
3DH5	2402	-3.82	21	PASS
3DH5	2441	-1.97	21	PASS
3DH5	2480	-1.47	21	PASS

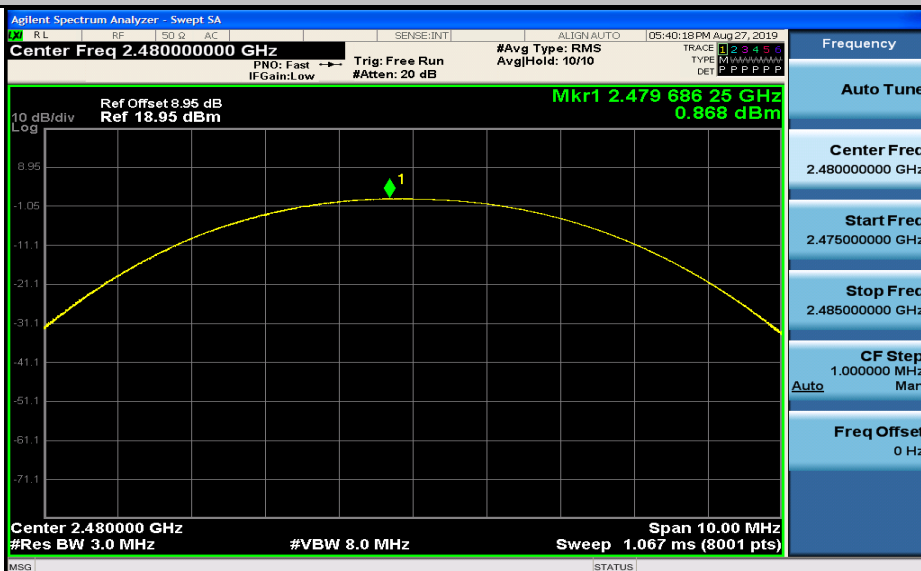
Conducted Peak Output Power_DH5_2402



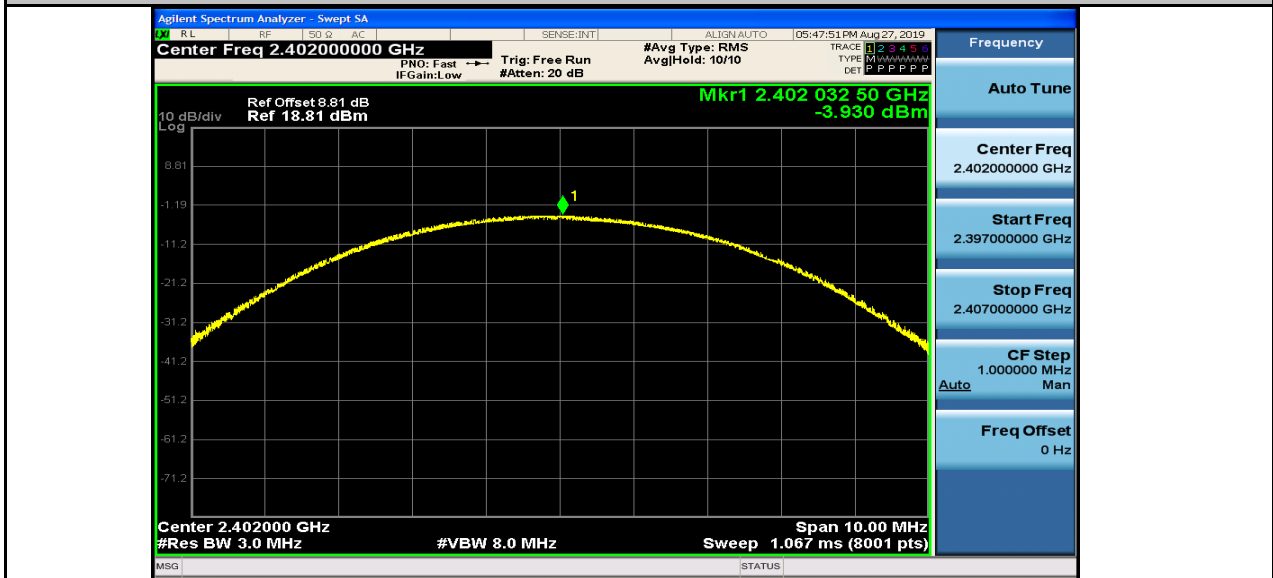
Conducted Peak Output Power_DH5_2441



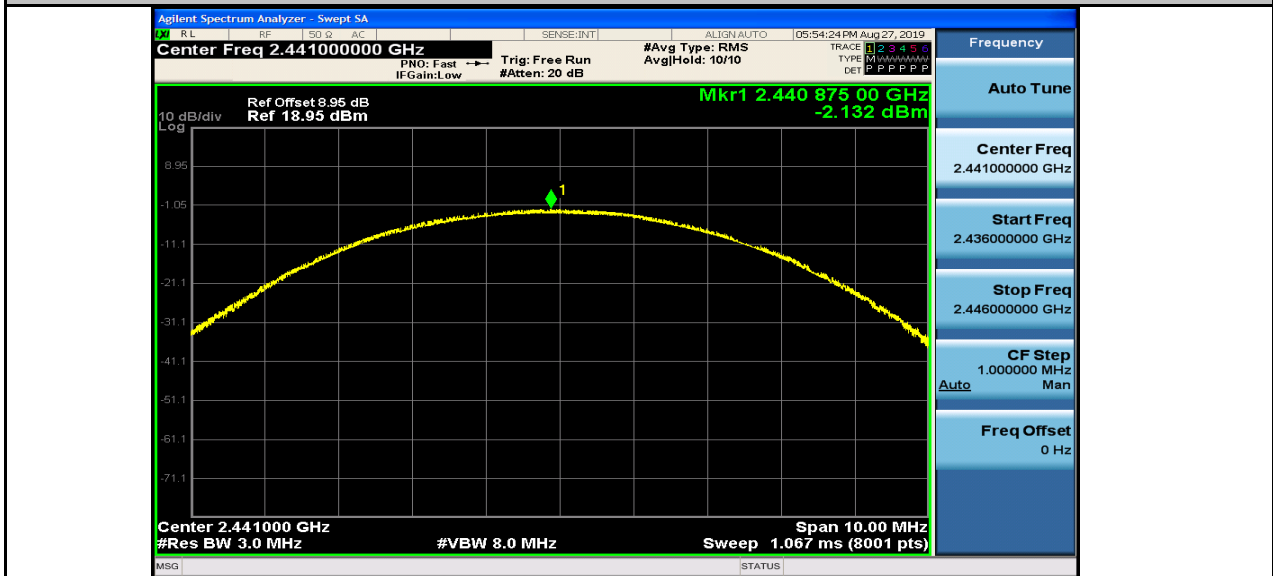
Conducted Peak Output Power_DH5_2480



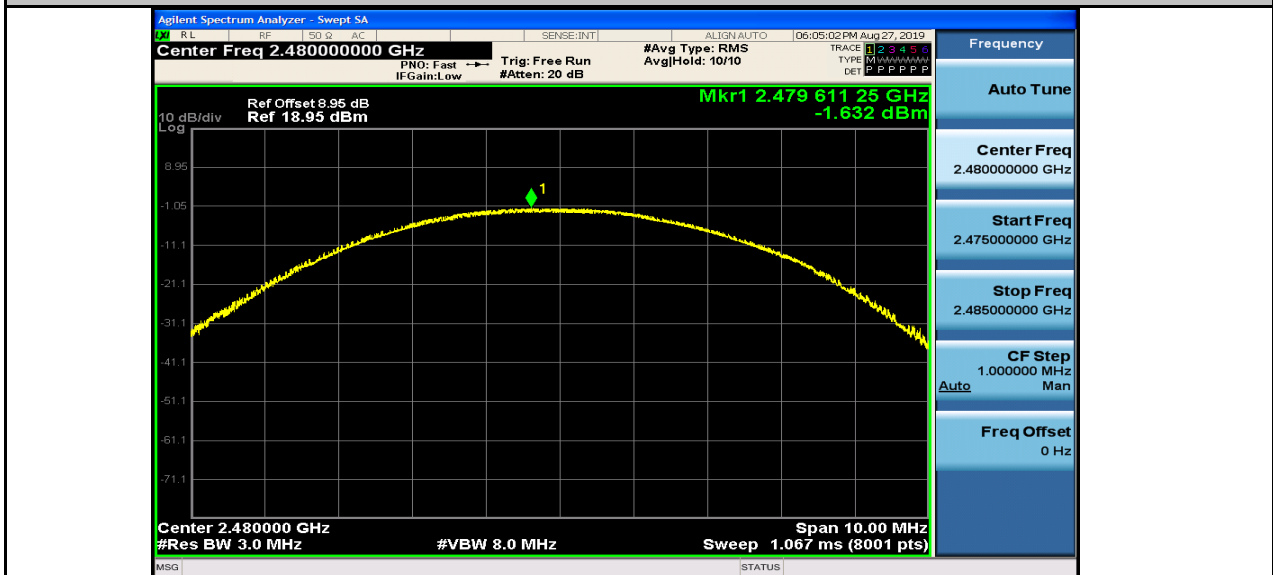
Conducted Peak Output Power_2DH5_2402



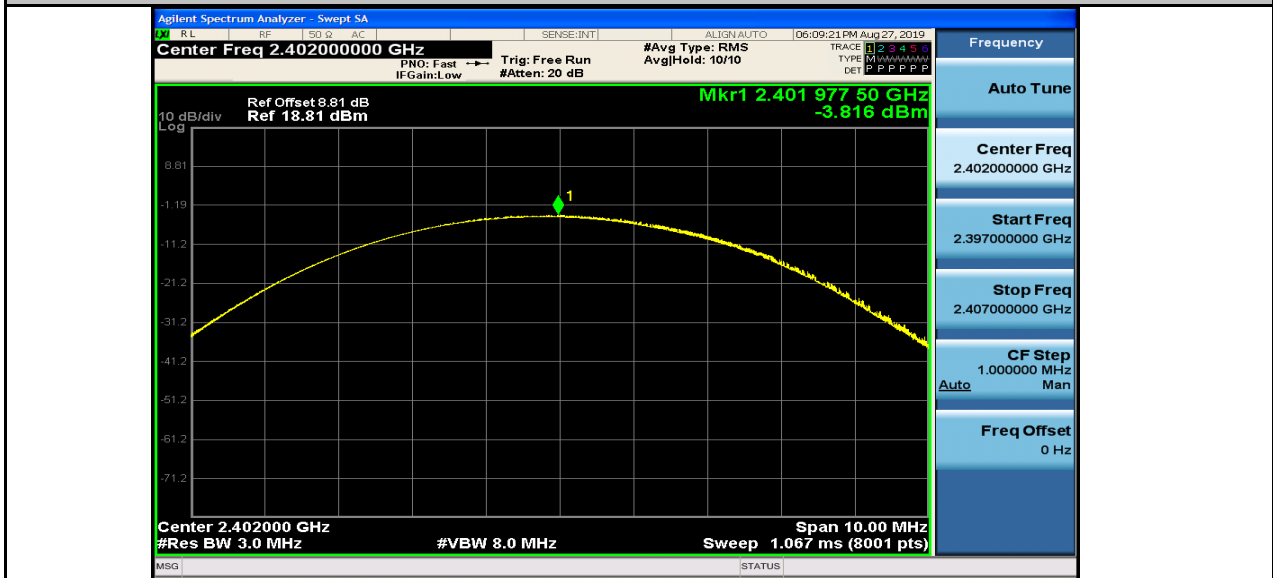
Conducted Peak Output Power_2DH5_2441



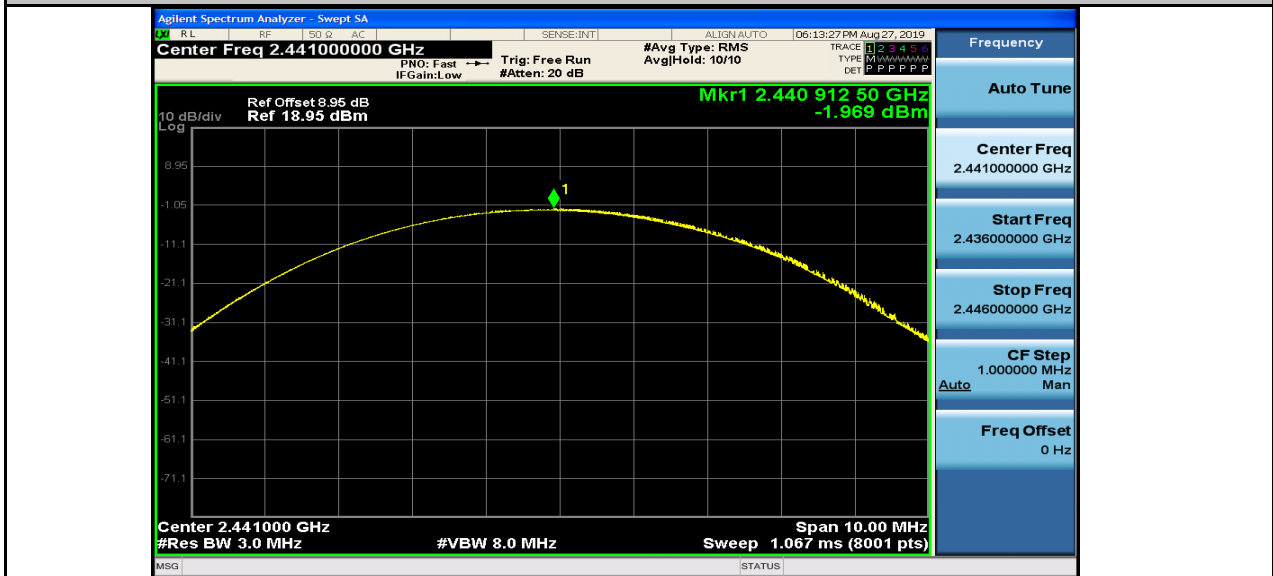
Conducted Peak Output Power_2DH5_2480



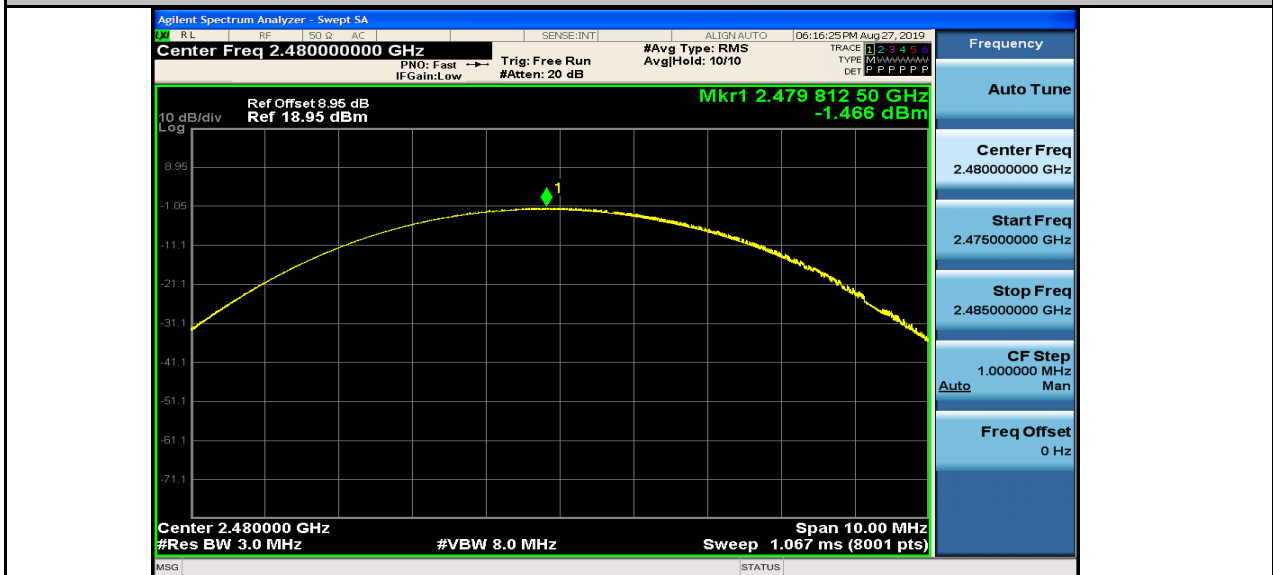
Conducted Peak Output Power_3DH5_2402



Conducted Peak Output Power_3DH5_2441



Conducted Peak Output Power_3DH5_2480





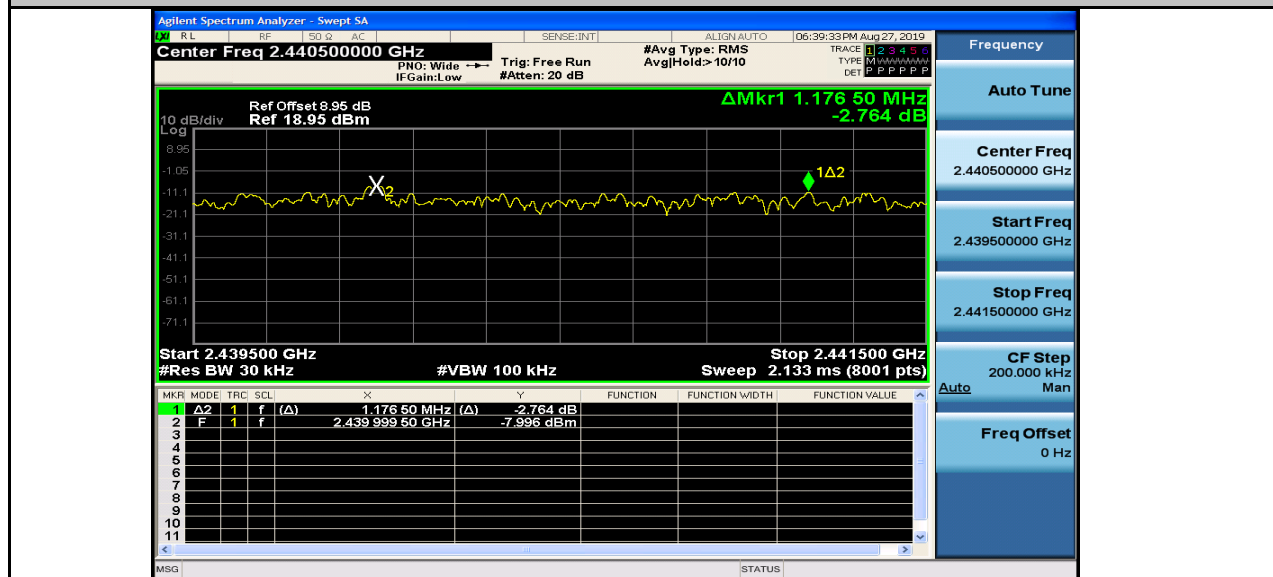
4.Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	2441	1.00	0.696	PASS
2DH5	2441	1.18	0.775	PASS
3DH5	2441	0.99	0.783	PASS

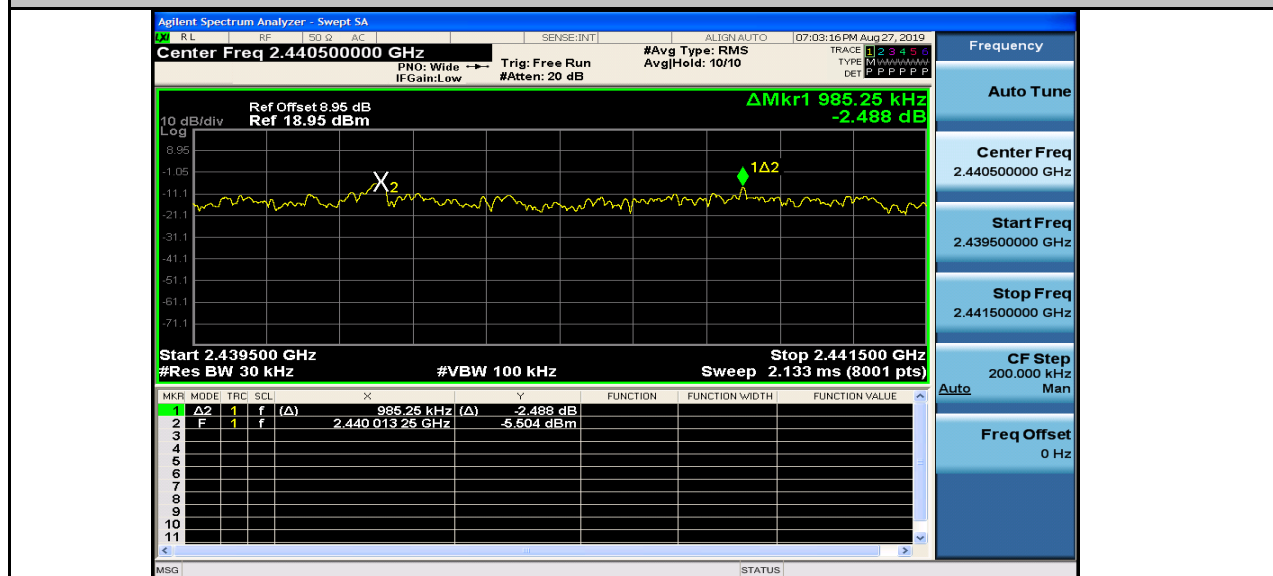
Carrier Frequency Separation_DH5_2441



Carrier Frequency Separation_2DH5_2441



Carrier Frequency Separation_3DH5_2441

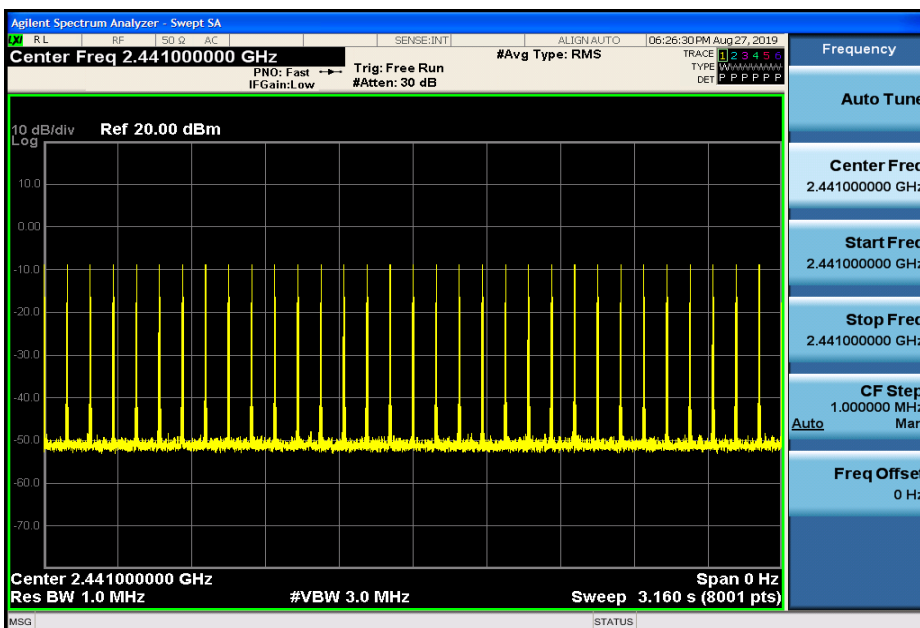
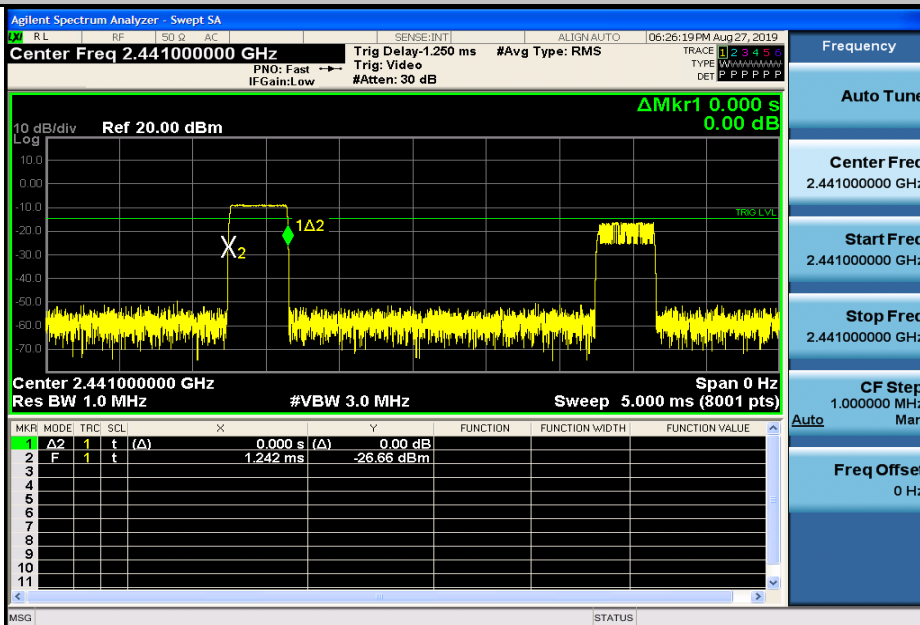




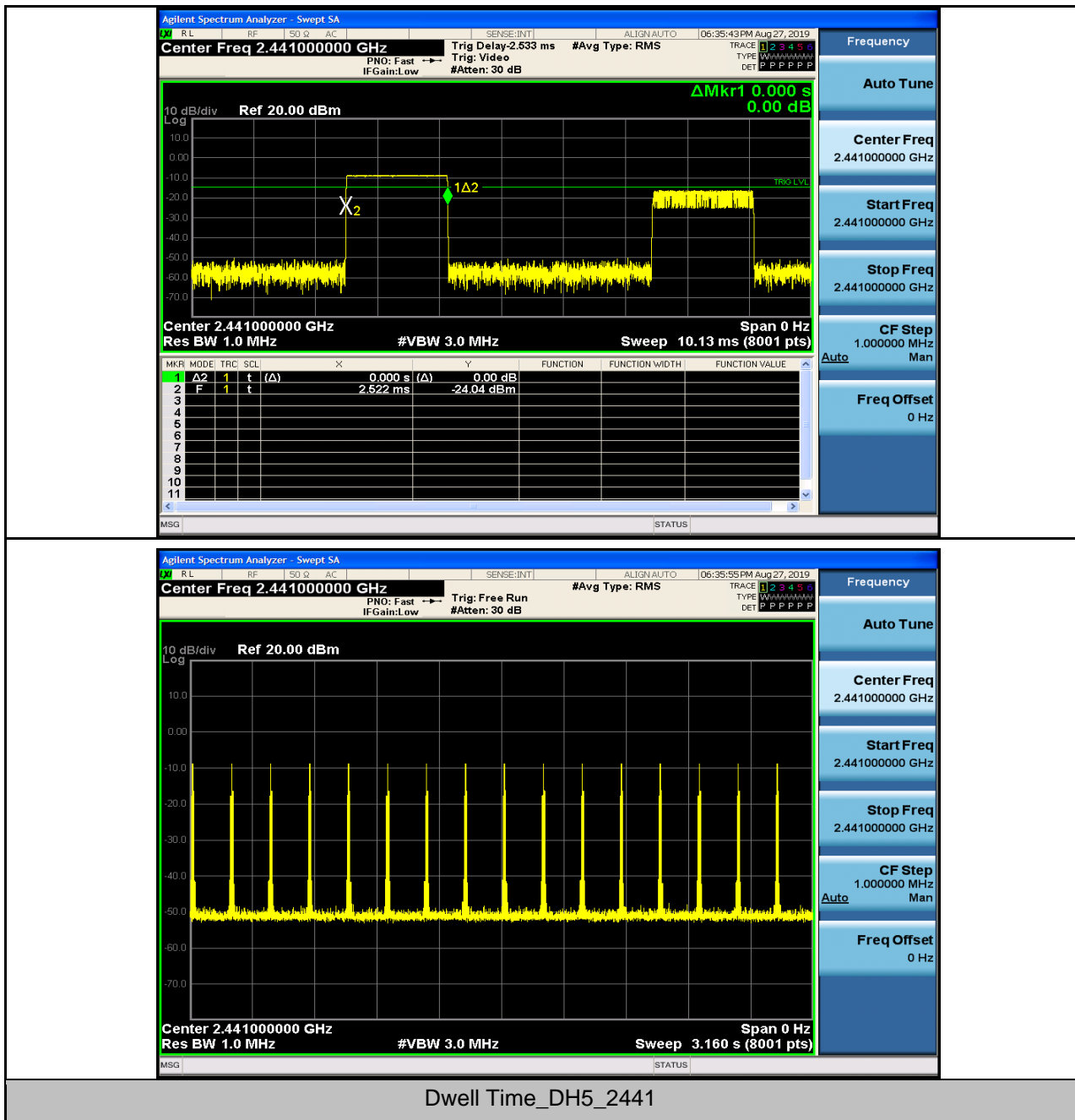
5.Dwell Time

Test Mode	Test Channel	Burst Width[ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit[s]	Verdict
DH1	2441	0.41	310	0.12	0.4	PASS
DH3	2441	1.67	150	0.25	0.4	PASS
DH5	2441	2.91	110	0.32	0.4	PASS
2DH1	2441	0.42	310	0.13	0.4	PASS
2DH3	2441	1.67	160	0.28	0.4	PASS
2DH5	2441	1.72	150	0.26	0.4	PASS
3DH1	2441	0.42	310	0.13	0.4	PASS
3DH3	2441	1.67	160	0.27	0.4	PASS
3DH5	2441	2.92	110	0.32	0.4	PASS

Dwell Time_DH1_2441



Dwell Time_DH3_2441



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig: Free Run

PN0: Fast IFGain: Low #Atten: 30 dB

06:35:55 PM Aug 27, 2019

TRACE 1 2 3 4 5 6

TYPE W W W W W W W W

DET P P P P P P P P

10 dB/div Ref 20.00 dBm

Log

Center 2.441000000 GHz

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

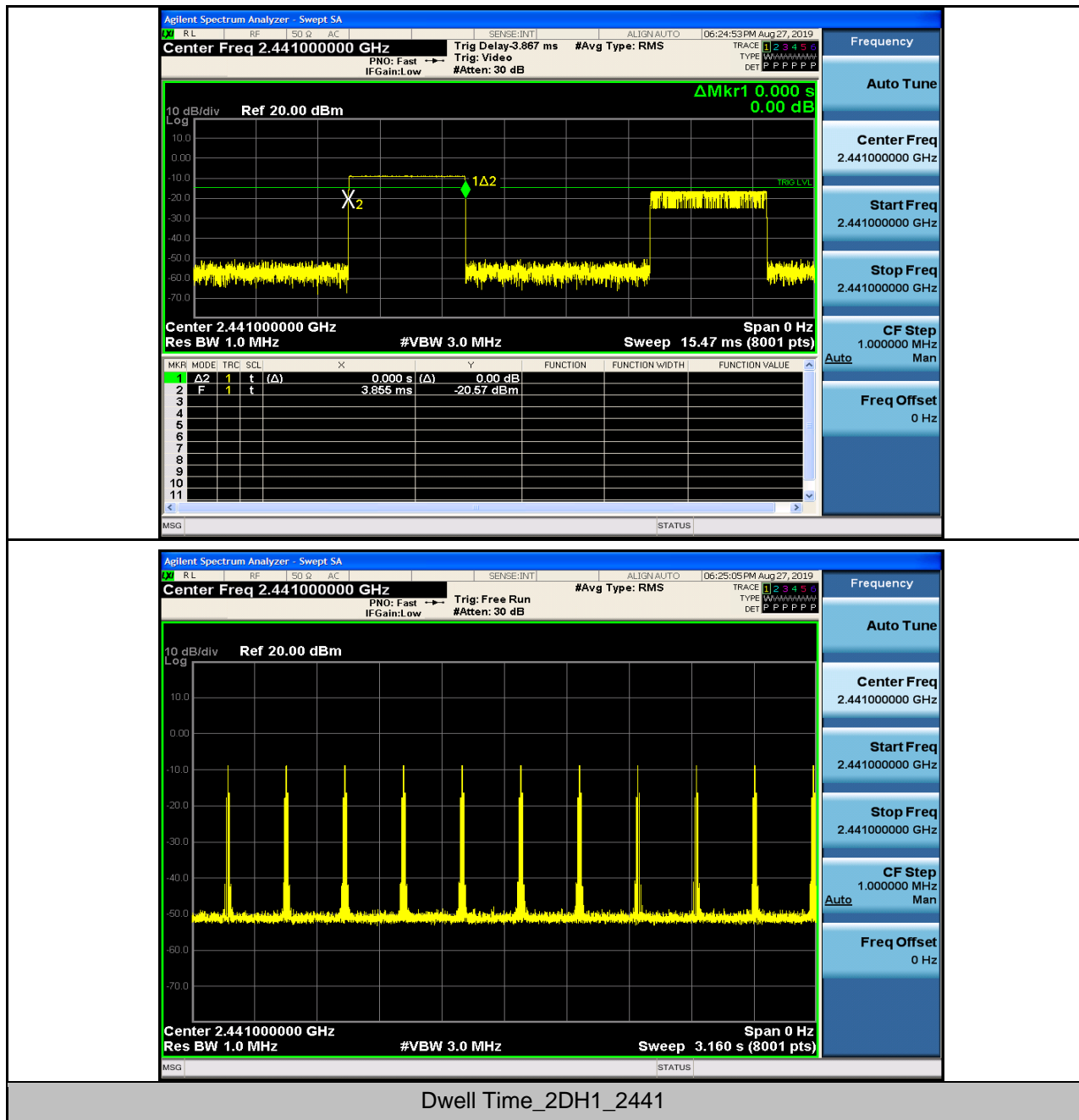
Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz

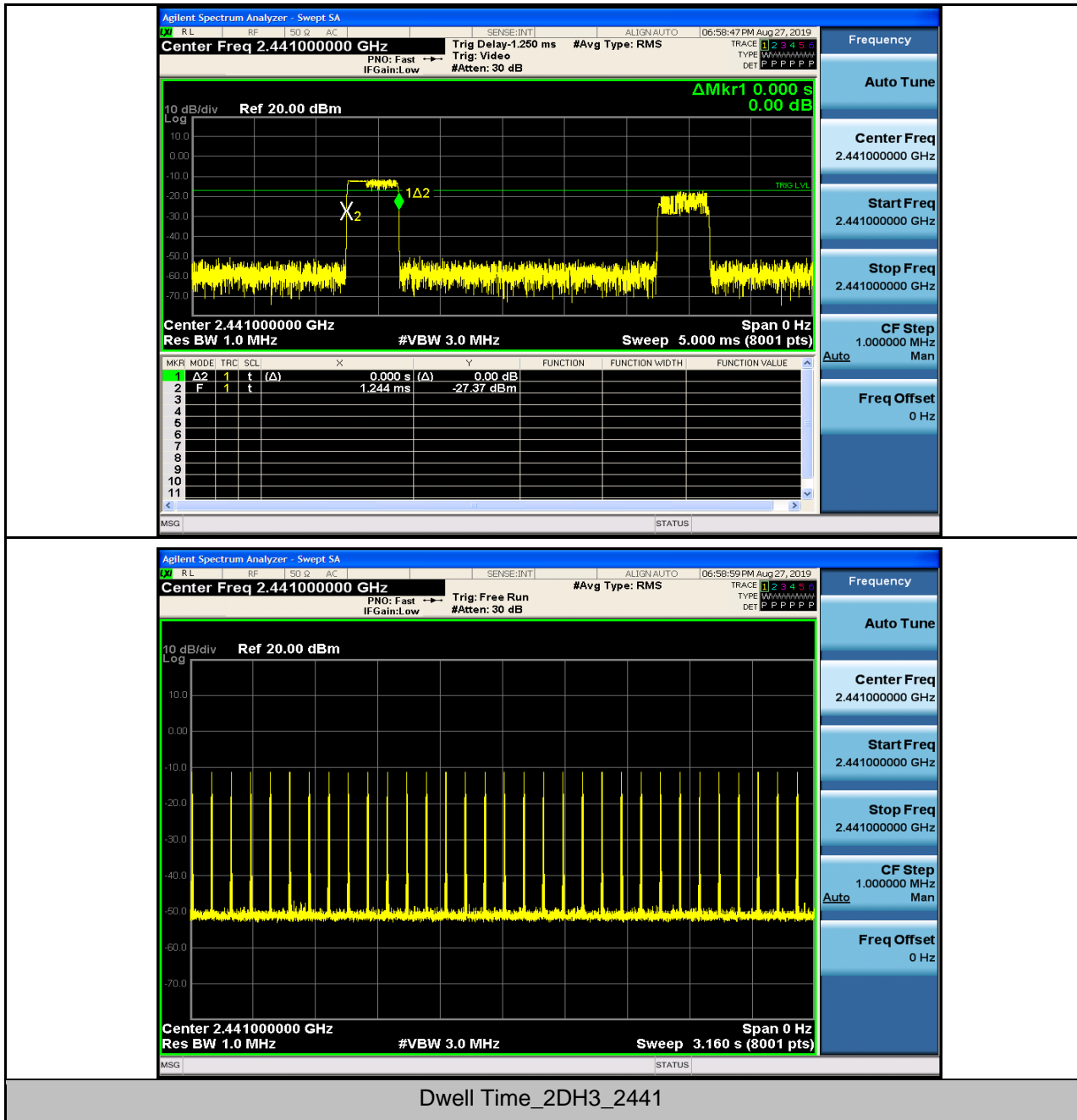
Auto Man

Freq Offset
0 Hz

Dwell Time_DH5_2441



Dwell Time_2DH1_2441



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig: Free Run

PN0: Fast IFGain: Low #Atten: 30 dB

06:58:59 PM Aug 27, 2019

TRACE 1 2 3 4 5 6

TYPE W W W W W W W W

DET P P P P P P P P

10 dB/div Ref 20.00 dBm

Log

Center 2.441000000 GHz

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

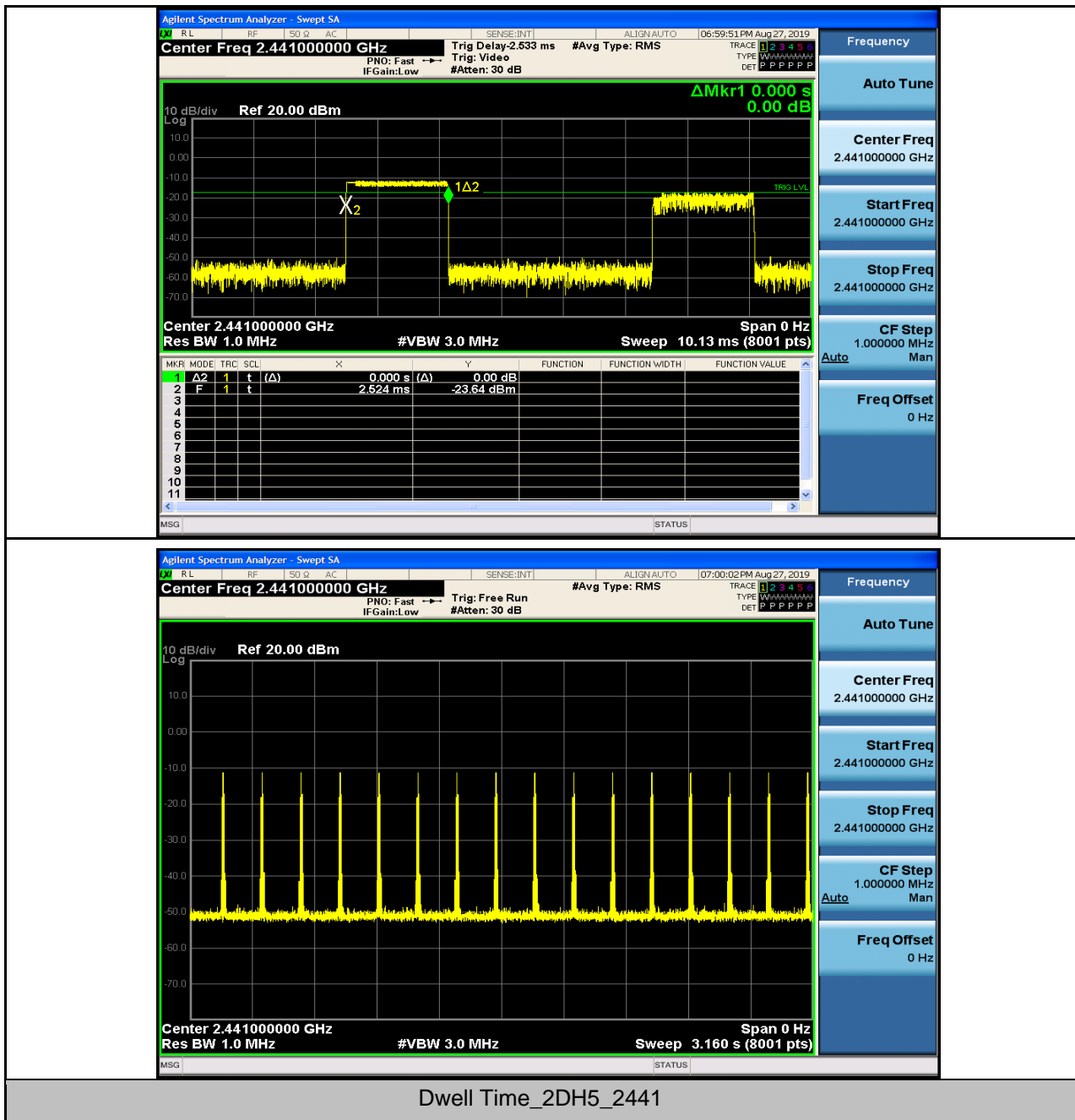
Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz

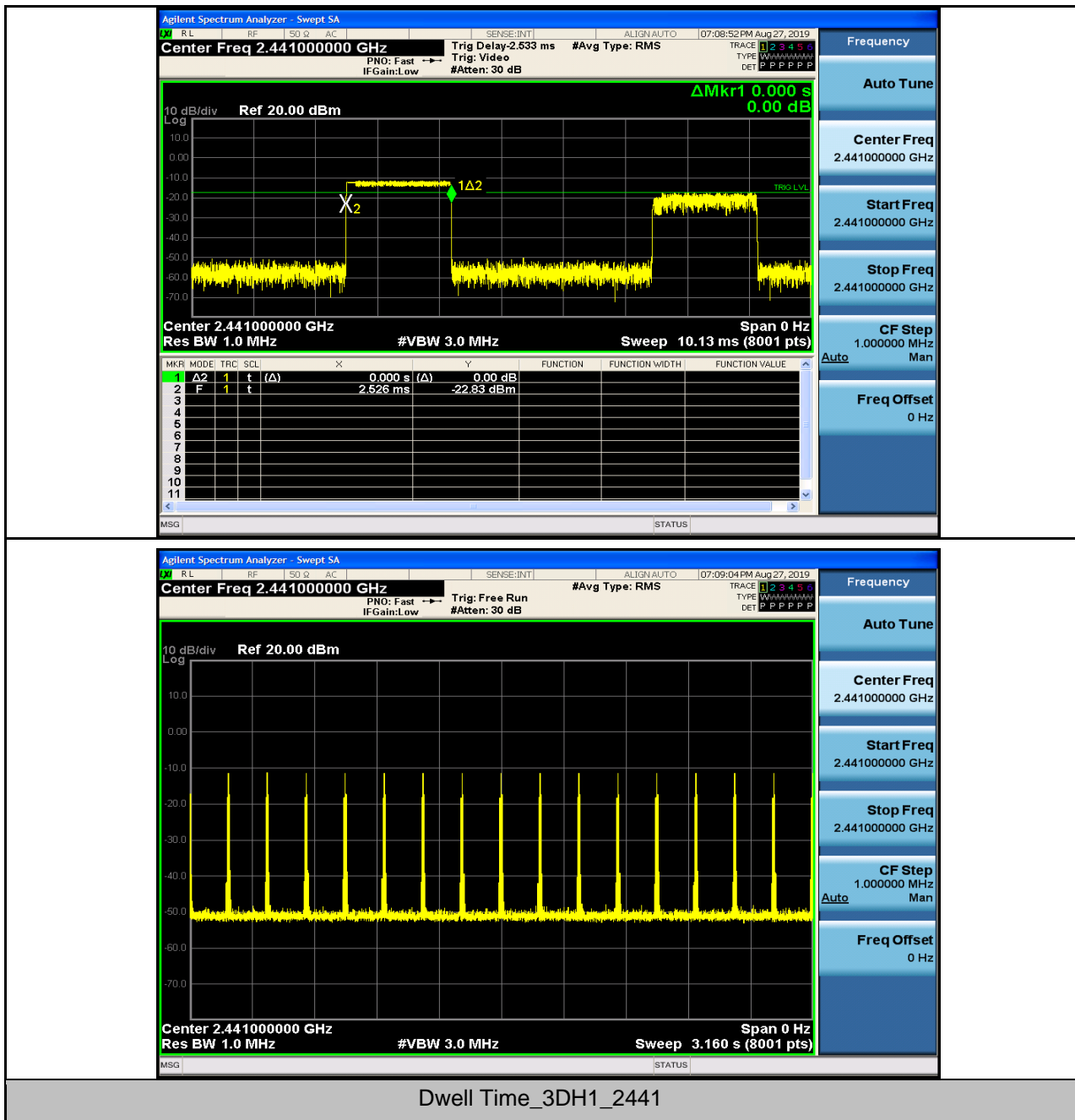
Auto

Freq Offset
0 Hz

Dwell Time_2DH3_2441



Dwell Time_2DH5_2441



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig: Free Run

PN0: Fast IFGain: Low #Atten: 30 dB

07:09:04 PM Aug 27, 2019

TRACE 1 2 3 4 5 6

TYPE W W W W W W W W

DET P P P P P P P

10 dB/div Ref 20.00 dBm

Log

Center 2.441000000 GHz

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

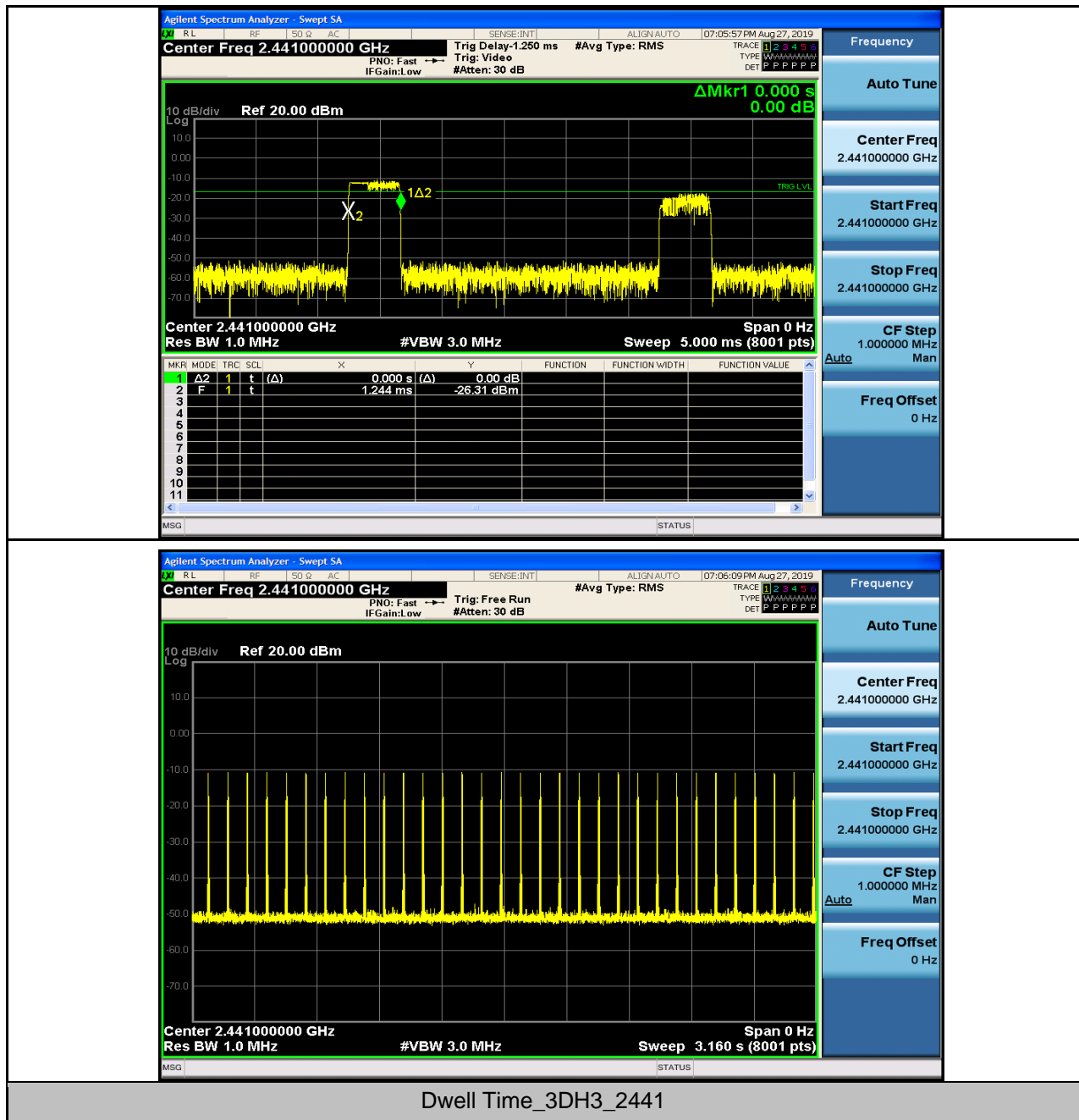
Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz

Auto

Freq Offset
0 Hz

Dwell Time_3DH1_2441



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig: Free Run

PN0: Fast IFGain: Low #Atten: 30 dB

07:06:09 PM Aug 27, 2019

TRACE 1 2 3 4 5 6

TYPE W W W W W W W W

DET P P P P P P P P

10 dB/div Ref 20.00 dBm

Log

Center 2.441000000 GHz

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

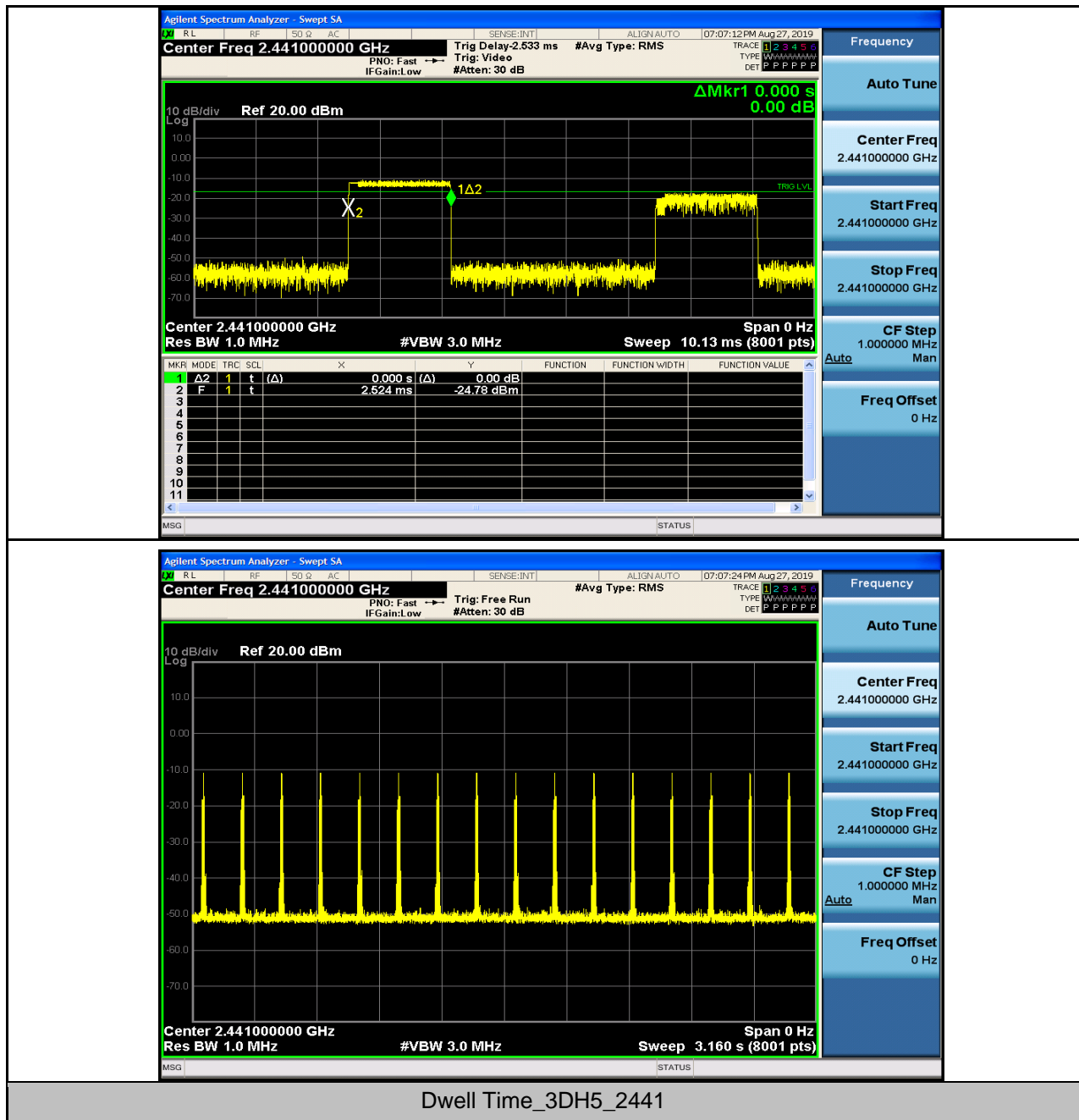
Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz

Auto

Freq Offset
0 Hz

Dwell Time_3DH3_2441



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig: Free Run

PN0: Fast IFGain: Low #Atten: 30 dB

07:07:24 PM Aug 27, 2019

TRACE 1 2 3 4 5 6

TYPE W W W W W W W W

DET P P P P P P P P

10 dB/div Ref 20.00 dBm

Log

Center 2.441000000 GHz

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

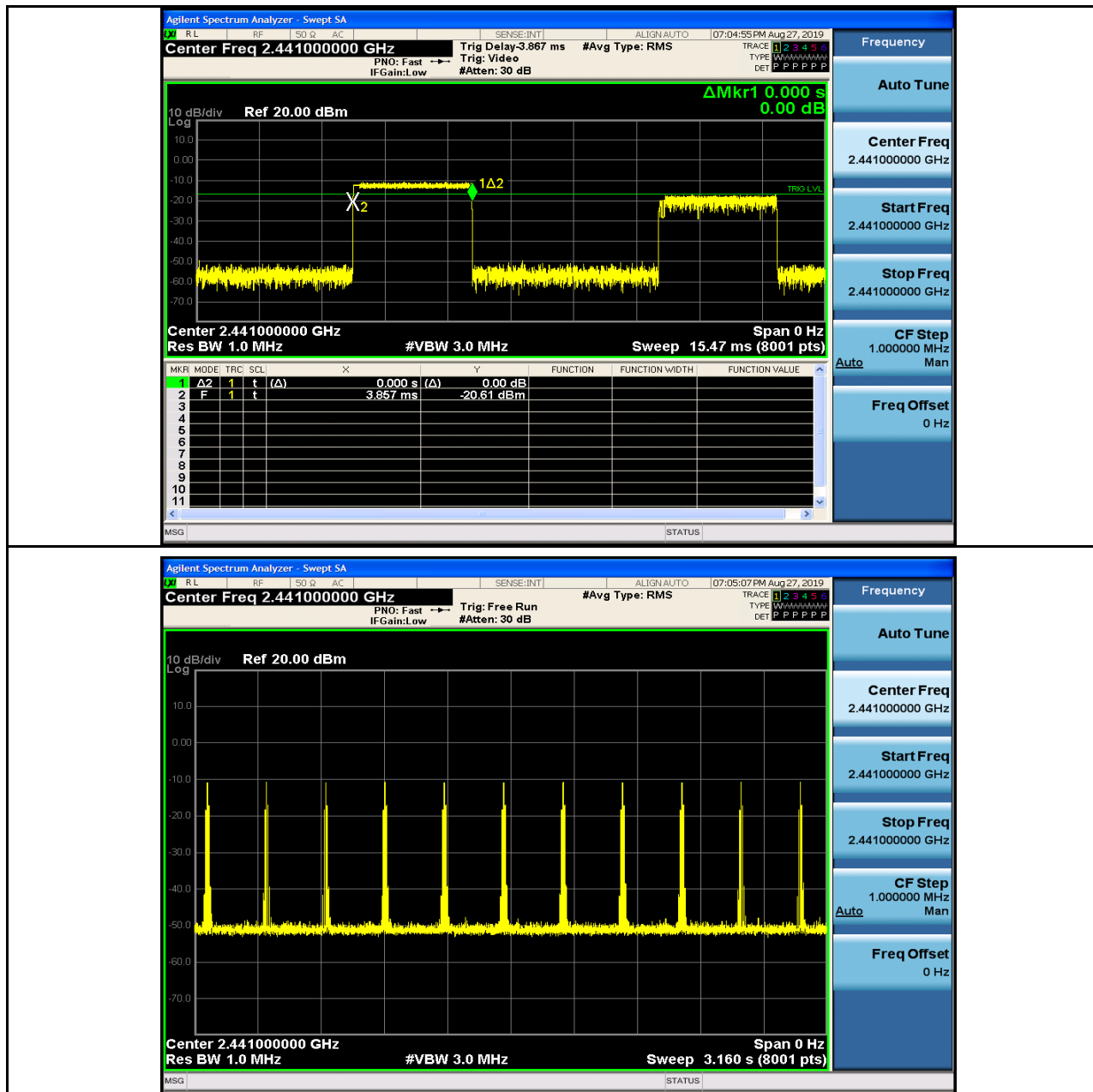
Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz

Auto

Freq Offset
0 Hz

Dwell Time_3DH5_2441



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig: Free Run #Avg Type: RMS

PN0: Fast IFGain: Low #Atten: 30 dB

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

10 dB/div Ref 20.00 dBm

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

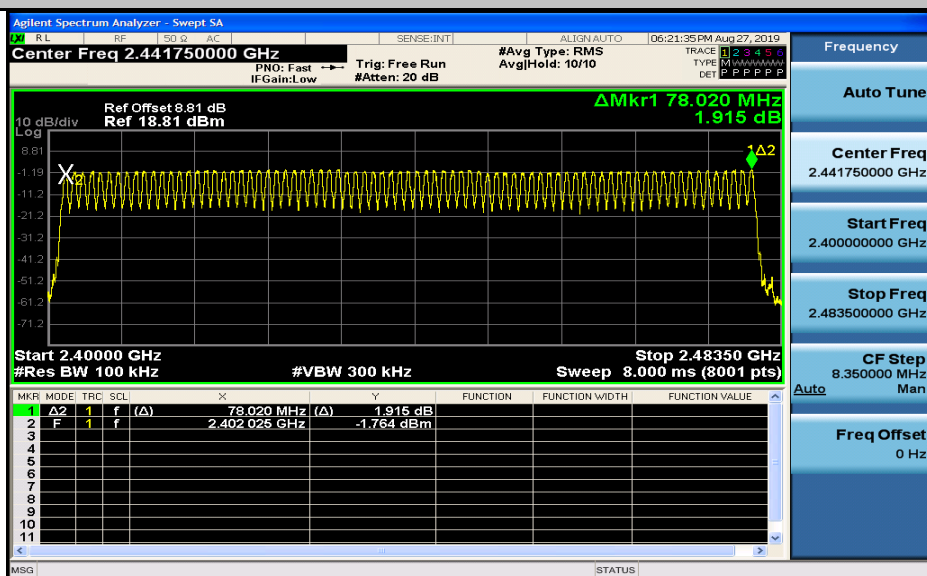
Freq Offset
0 Hz



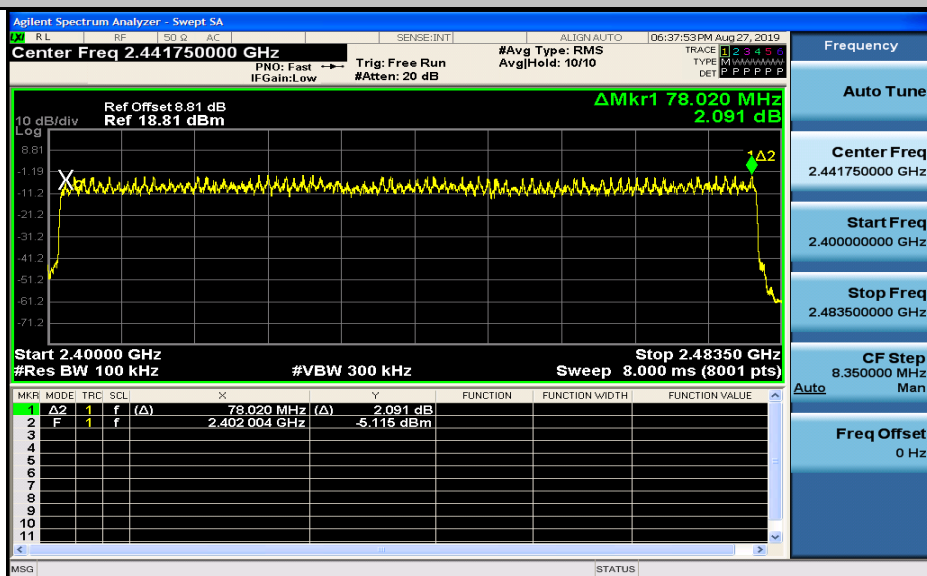
6.Hopping Channel Number

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

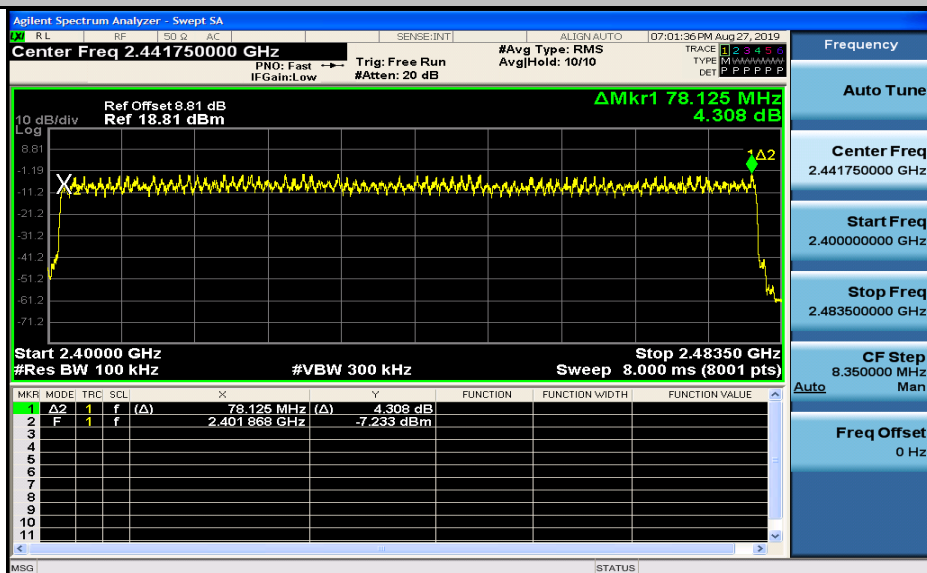
Hopping Channel Number_DH5



Hopping Channel Number_2DH5



Hopping Channel Number_3DH5



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	-0.34	-53.93	-20.34	PASS
DH5	2402	Off	-1.55	-51.97	-21.55	PASS
DH5	2480	On	0.51	-56.29	-19.49	PASS
DH5	2480	Off	0.59	-58.48	-19.41	PASS
2DH5	2402	On	-3.60	-45.29	-23.60	PASS
2DH5	2402	Off	-5.05	-42.62	-25.05	PASS
2DH5	2480	On	-2.92	-58.01	-22.92	PASS
2DH5	2480	Off	-2.79	-58.29	-22.79	PASS
3DH5	2402	On	-3.61	-42.60	-23.61	PASS
3DH5	2402	Off	-5.05	-42.55	-25.05	PASS
3DH5	2480	On	-2.70	-57.69	-22.70	PASS
3DH5	2480	Off	-2.74	-57.60	-22.74	PASS

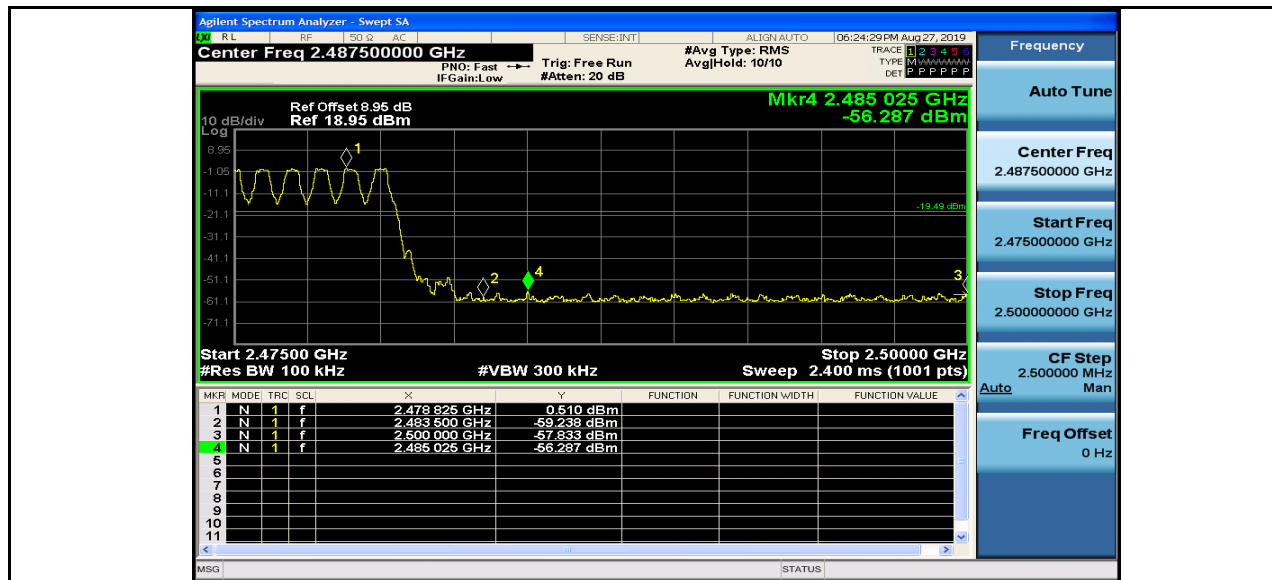
Band-edge for RF Conducted Emissions_DH5_2402_Hopping On



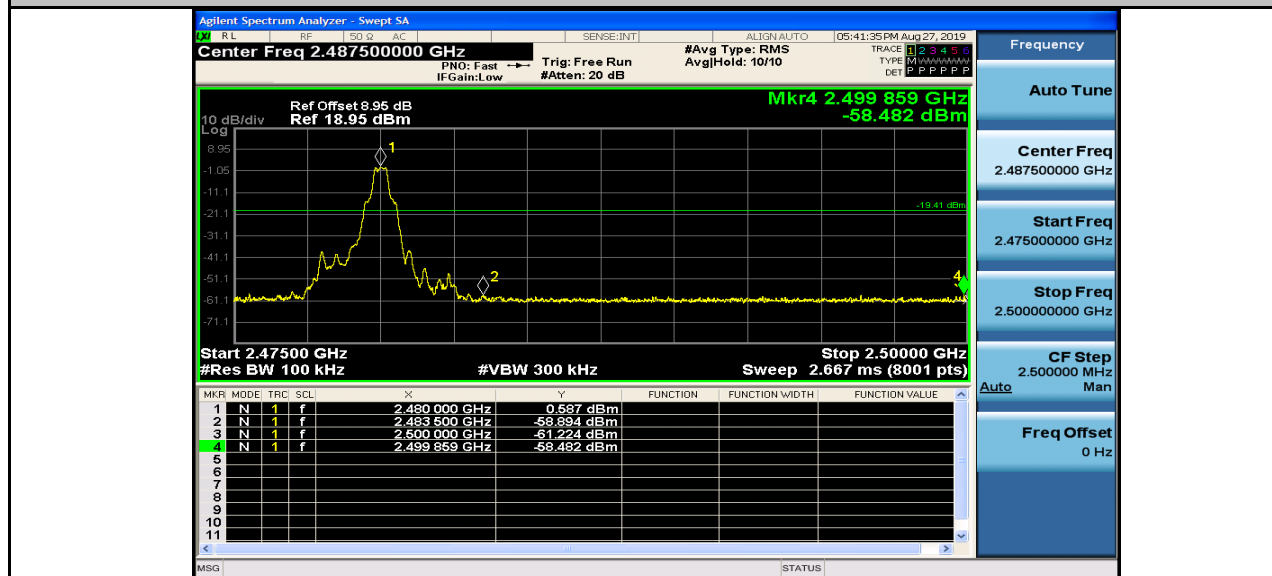
Band-edge for RF Conducted Emissions_DH5_2402_Hopping Off



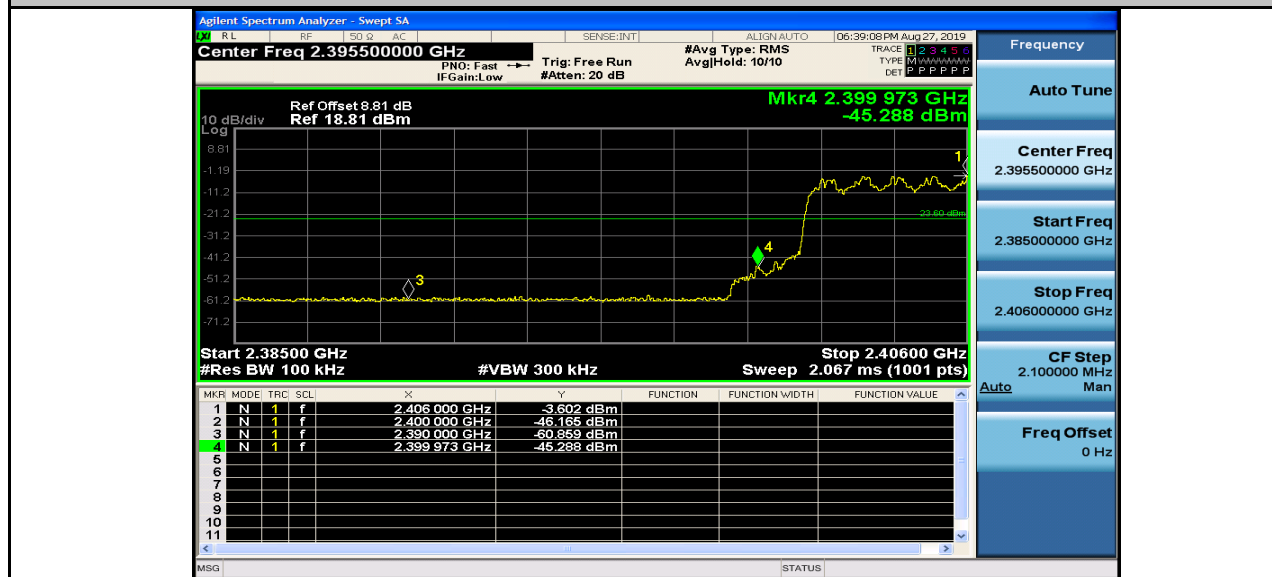
Band-edge for RF Conducted Emissions_DH5_2480_Hopping On



Band-edge for RF Conducted Emissions_DH5_2480_Hopping Off



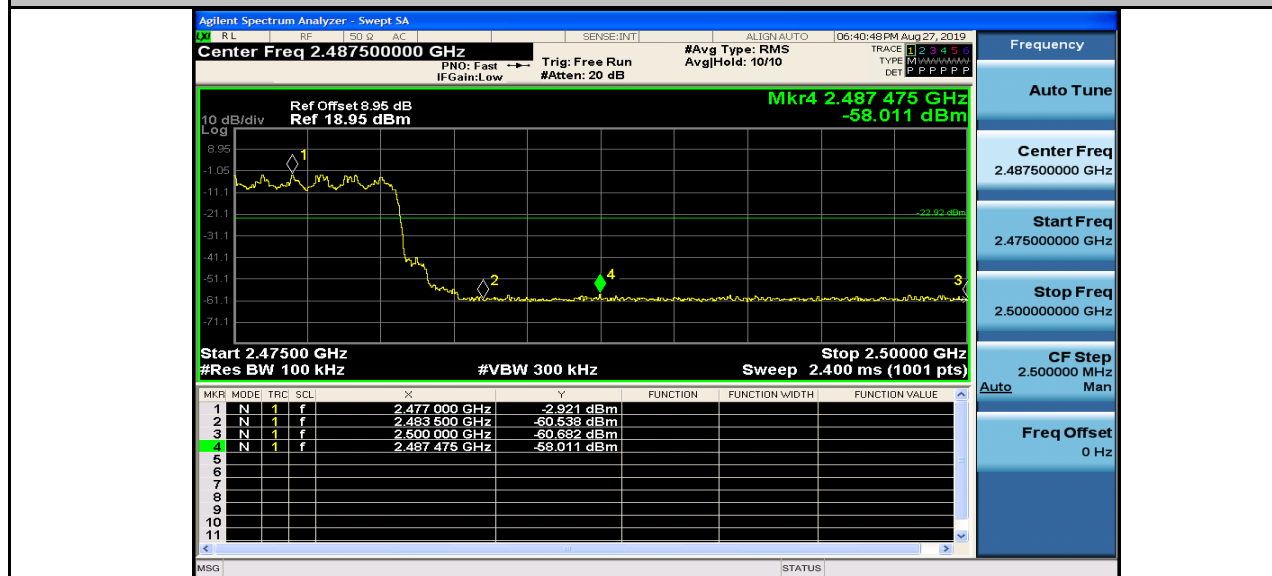
Band-edge for RF Conducted Emissions_2DH5_2402_Hopping On



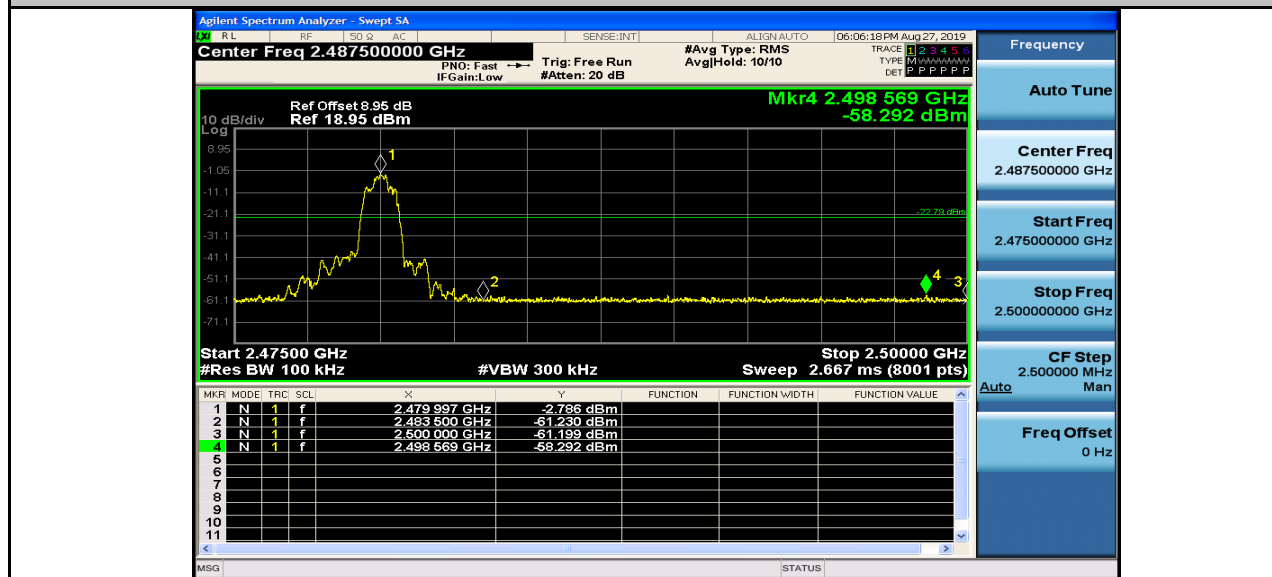
Band-edge for RF Conducted Emissions_2DH5_2402_Hopping Off



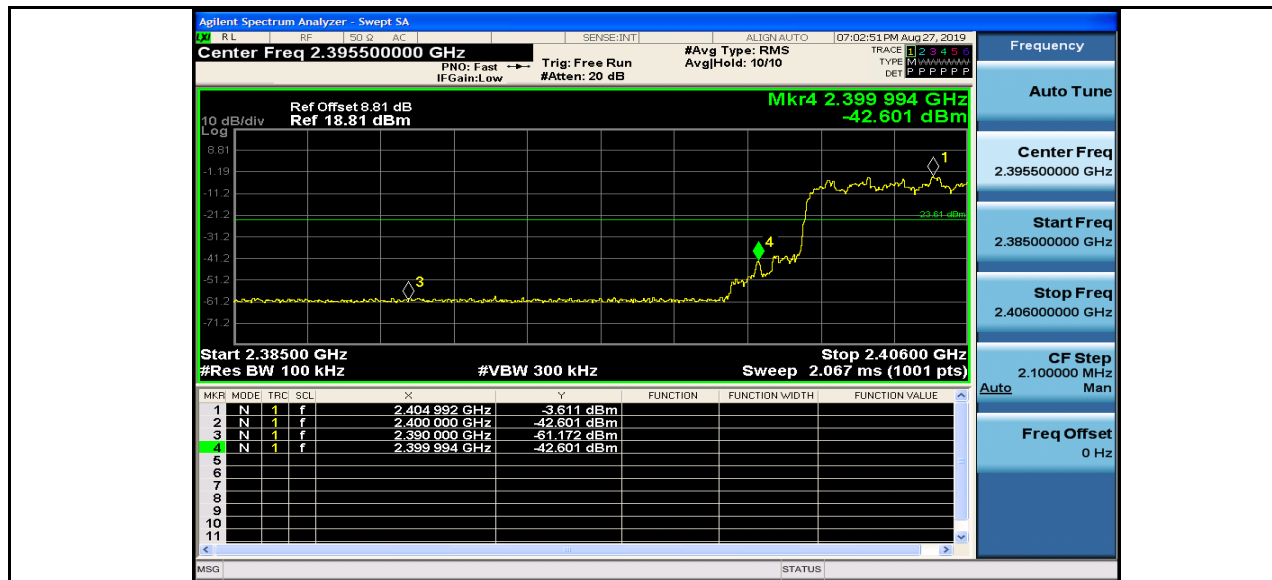
Band-edge for RF Conducted Emissions_2DH5_2480_Hopping On



Band-edge for RF Conducted Emissions_2DH5_2480_Hopping Off



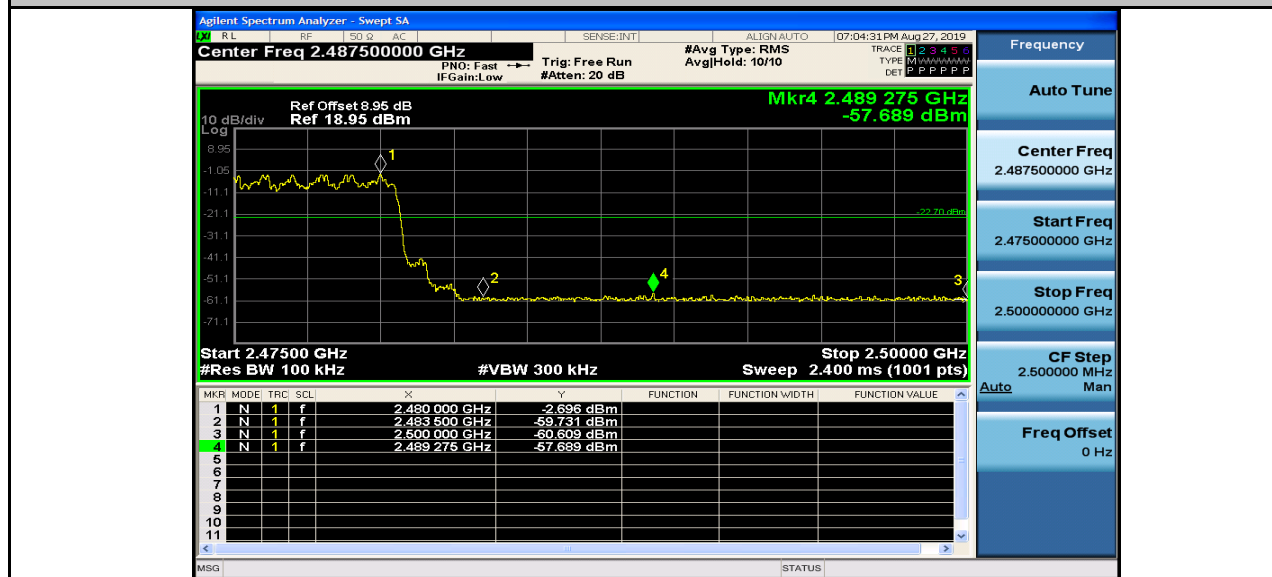
Band-edge for RF Conducted Emissions_3DH5_2402_Hopping On



Band-edge for RF Conducted Emissions_3DH5_2402_Hopping Off



Band-edge for RF Conducted Emissions_3DH5_2480_Hopping On



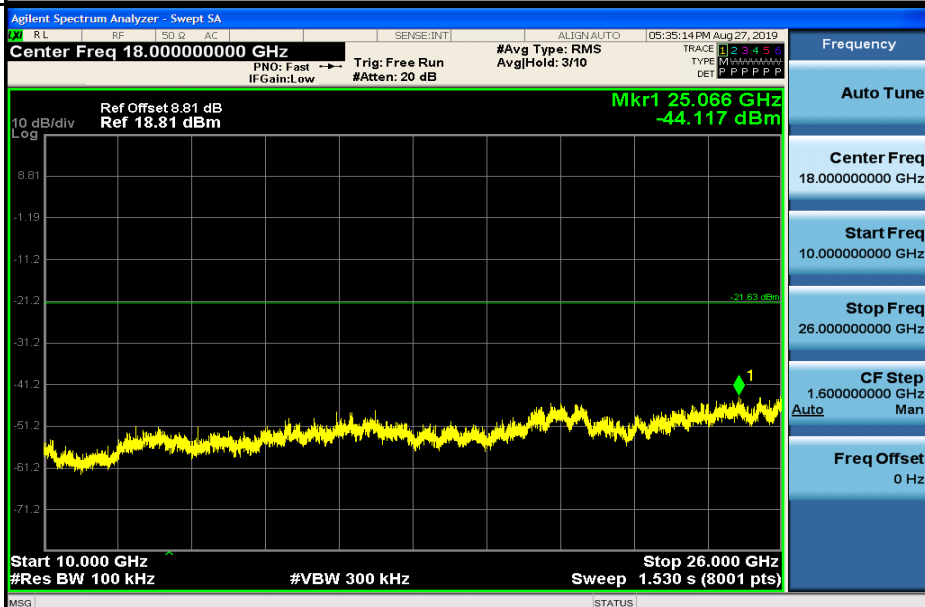
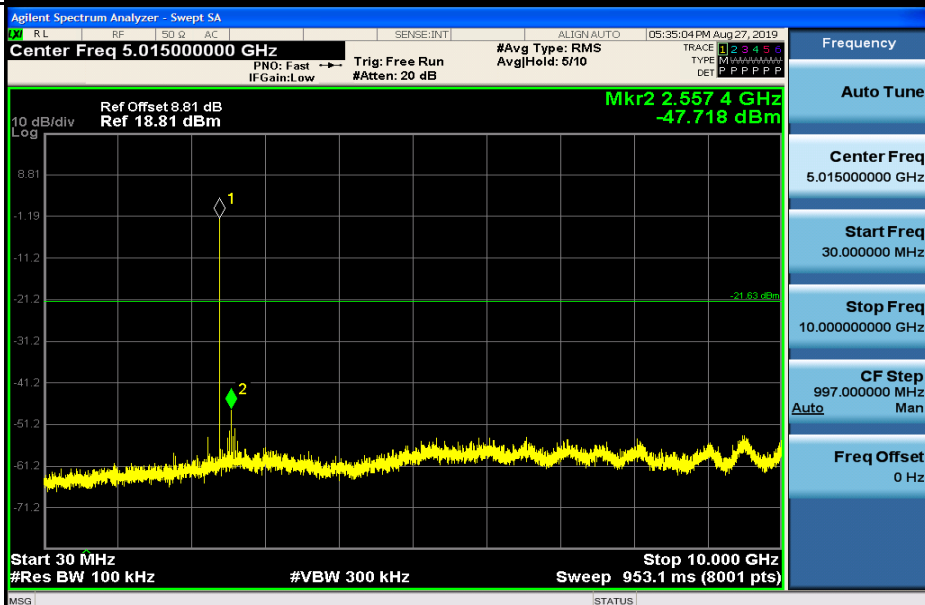
Band-edge for RF Conducted Emissions_3DH5_2480_Hopping Off



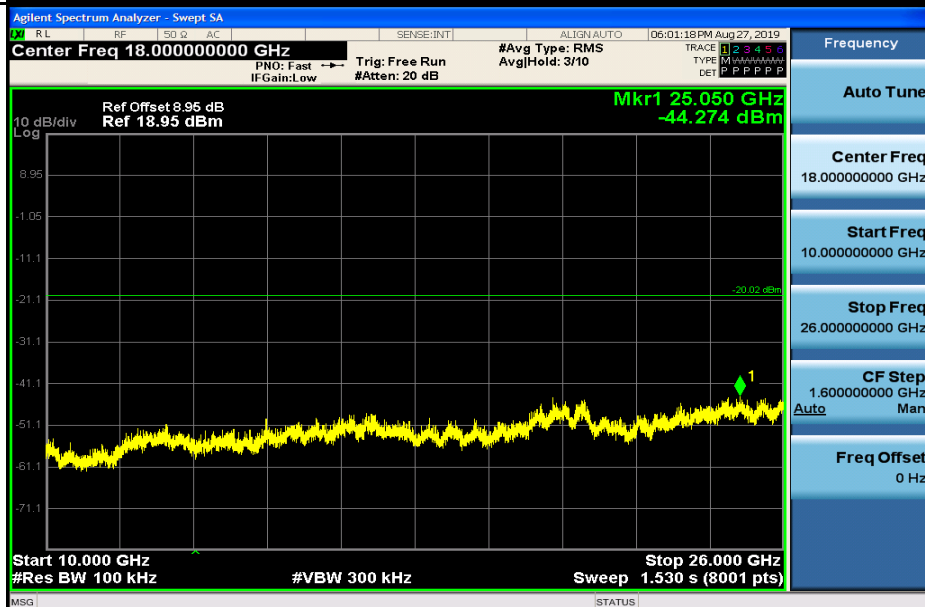
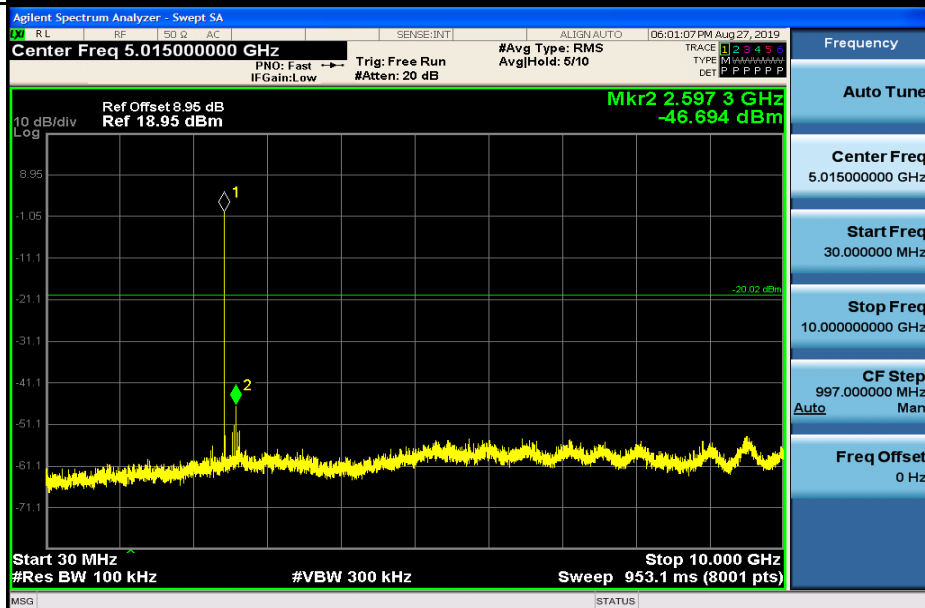
8.RF Conducted Spurious Emissions

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	-1.63	-47.72	<-21.63	PASS
DH5	2402	10000	26000	100	300	-1.631	-44.117	<-21.631	PASS
DH5	2441	30	10000	100	300	-0.03	-46.69	<-20.03	PASS
DH5	2441	10000	26000	100	300	-0.025	-44.274	<-20.025	PASS
DH5	2480	30	10000	100	300	0.53	-46.34	<-19.47	PASS
DH5	2480	10000	26000	100	300	0.526	-44.594	<-19.474	PASS
2DH5	2402	30	10000	100	300	-5.14	-51.34	<-25.14	PASS
2DH5	2402	10000	26000	100	300	-5.135	-42.912	<-25.135	PASS
2DH5	2441	30	10000	100	300	-3.32	-49.10	<-23.32	PASS
2DH5	2441	10000	26000	100	300	-3.318	-43.590	<-23.318	PASS
2DH5	2480	30	10000	100	300	-2.85	-49.93	<-22.85	PASS
2DH5	2480	10000	26000	100	300	-2.847	-44.017	<-22.847	PASS
3DH5	2402	30	10000	100	300	-5.04	-52.70	<-25.04	PASS
3DH5	2402	10000	26000	100	300	-5.042	-43.757	<-25.042	PASS
3DH5	2441	30	10000	100	300	-3.26	-51.49	<-23.26	PASS
3DH5	2441	10000	26000	100	300	-3.256	-43.881	<-23.256	PASS
3DH5	2480	30	10000	100	300	-2.76	-50.30	<-22.76	PASS
3DH5	2480	10000	26000	100	300	-2.763	-43.924	<-22.763	PASS

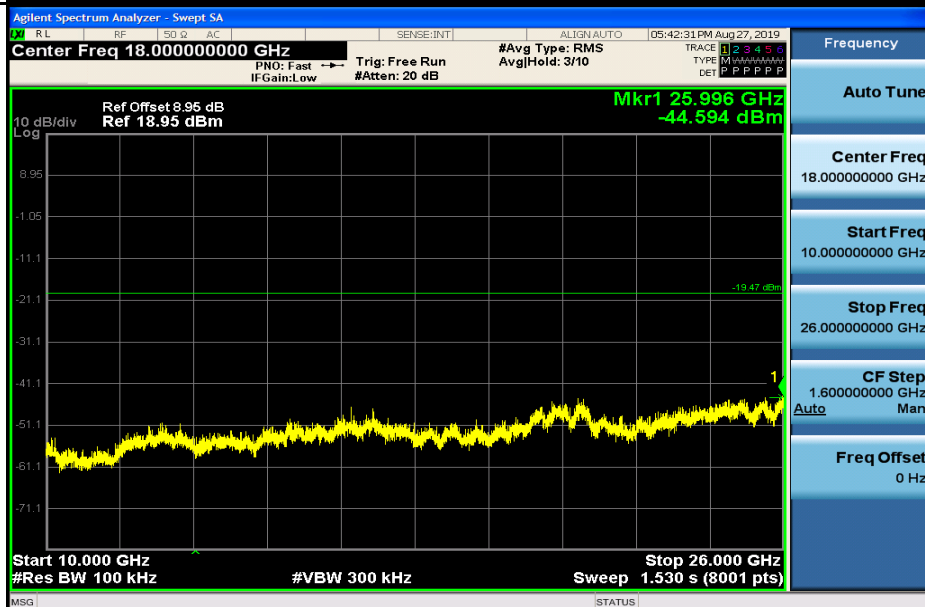
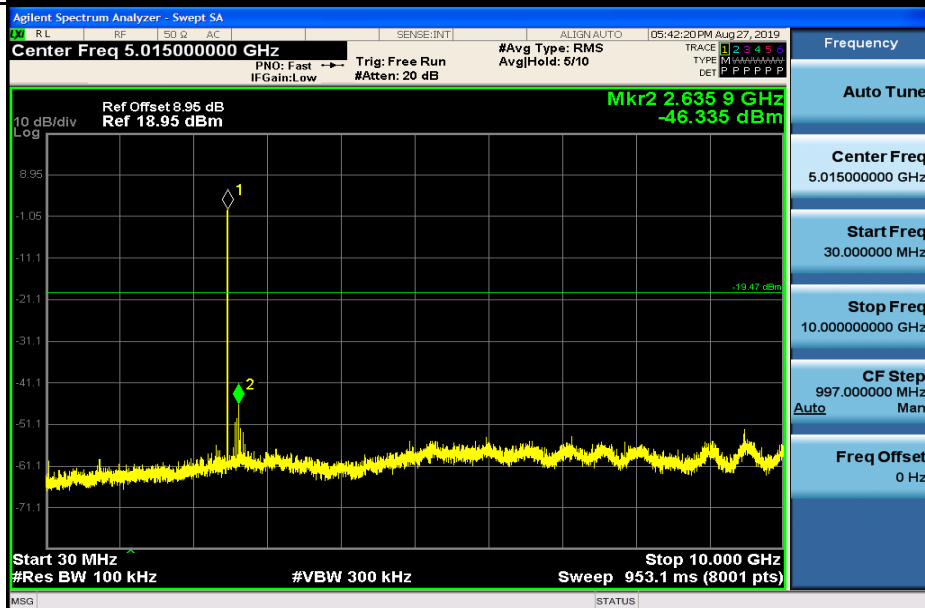
RF Conducted Spurious Emissions_DH5_2402



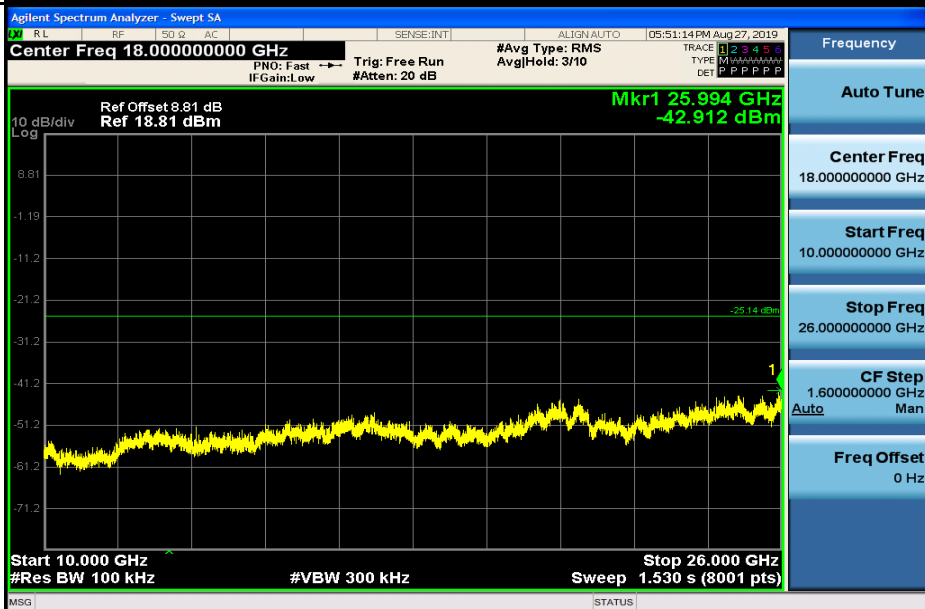
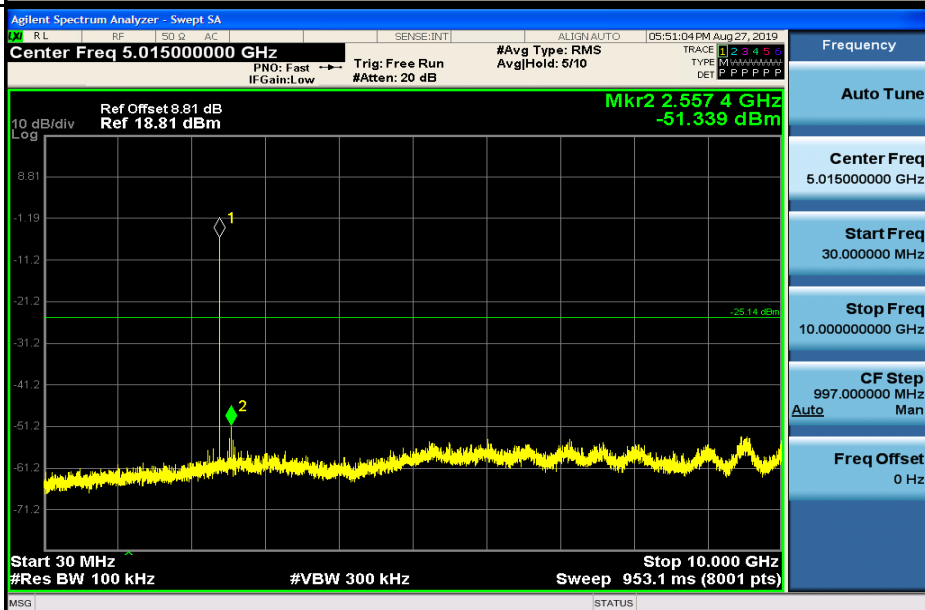
RF Conducted Spurious Emissions_DH5_2441



RF Conducted Spurious Emissions_DH5_2480



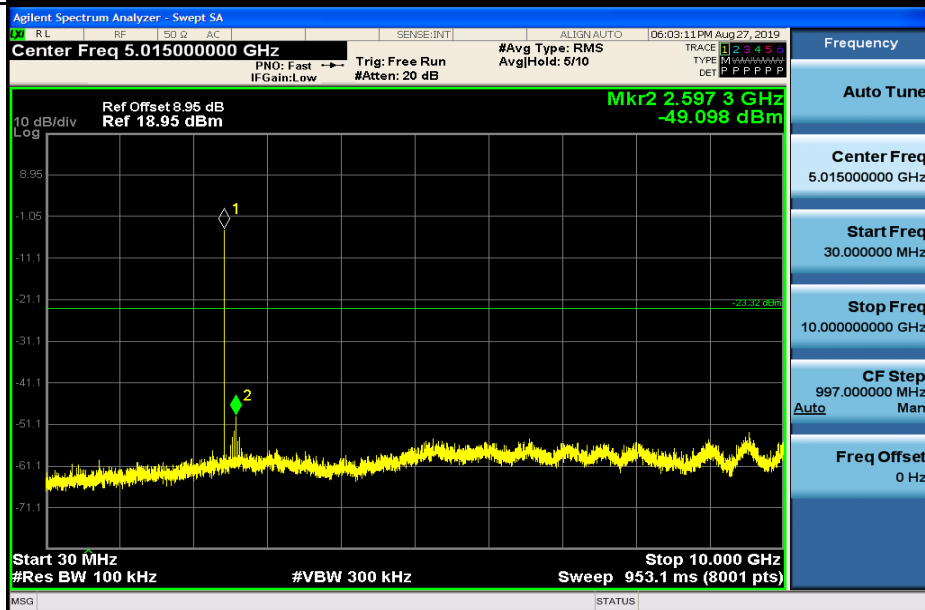
RF Conducted Spurious Emissions_2DH5_2402



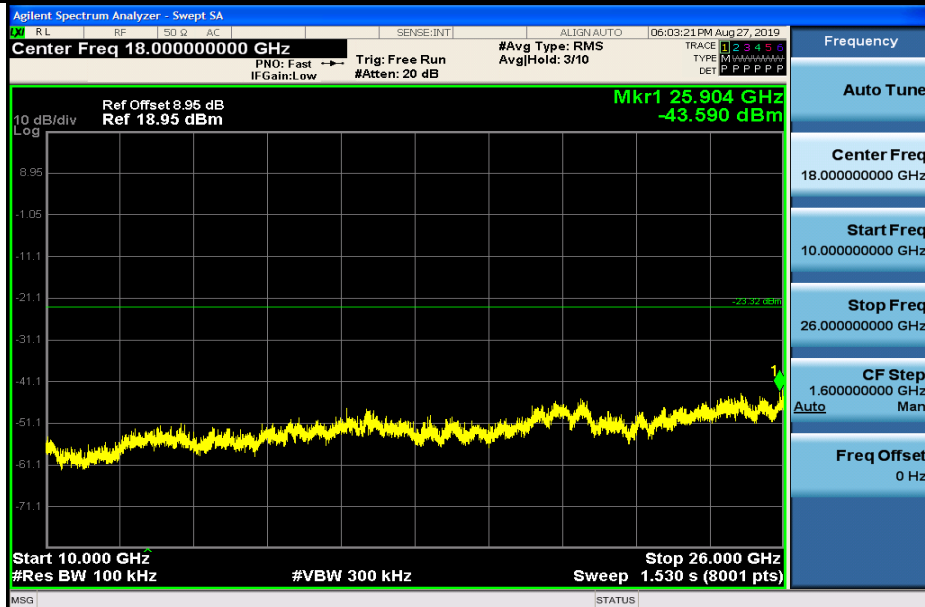
RF Conducted Spurious Emissions_2DH5_2441



Frequency
Auto Tune
Center Freq 2.441000000 GHz
Start Freq 2.439500000 GHz
Stop Freq 2.442500000 GHz
CF Step 300.000 kHz Auto
Freq Offset 0 Hz

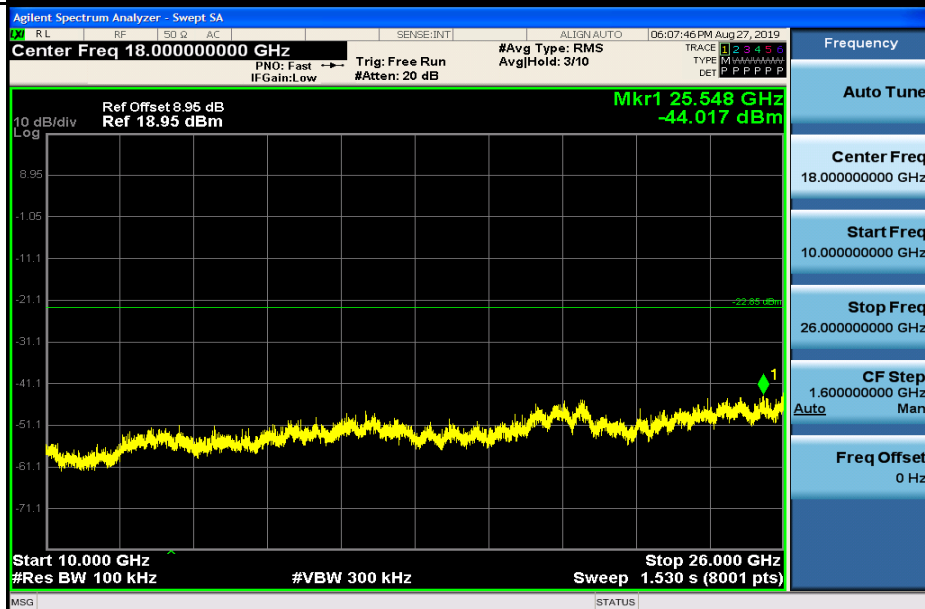
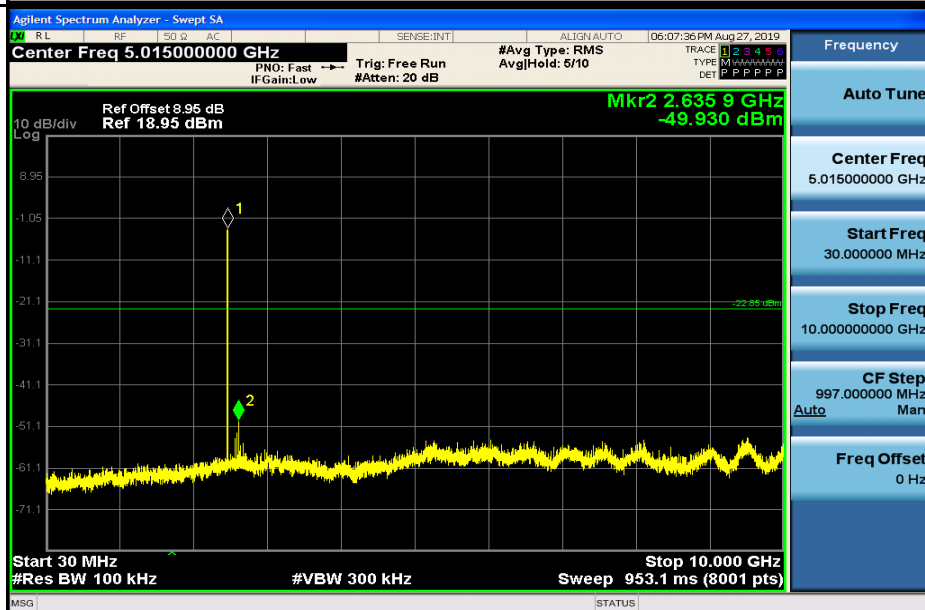


Frequency
Auto Tune
Center Freq 5.015000000 GHz
Start Freq 30.0000000 MHz
Stop Freq 10.000000000 GHz
CF Step 997.0000000 MHz Auto
Freq Offset 0 Hz

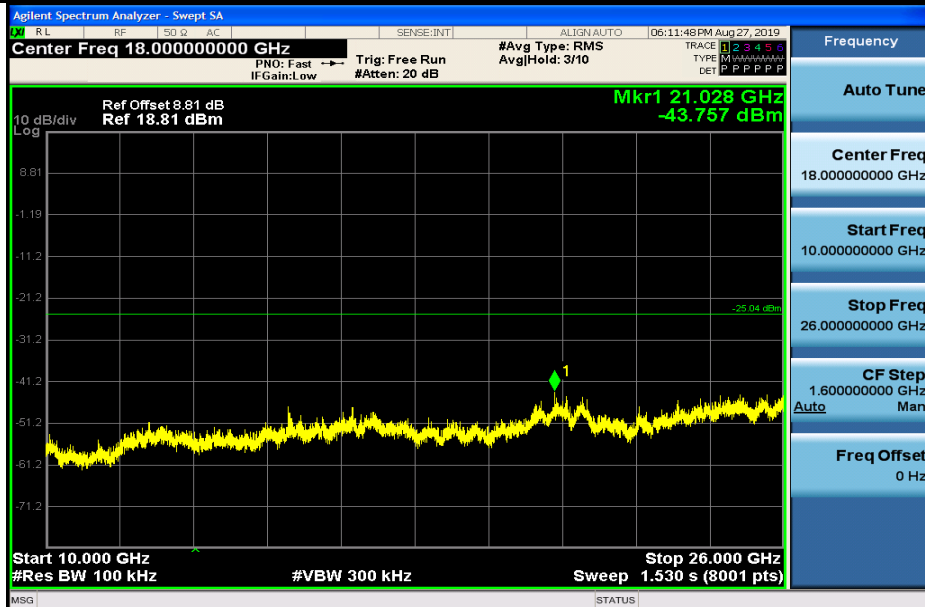
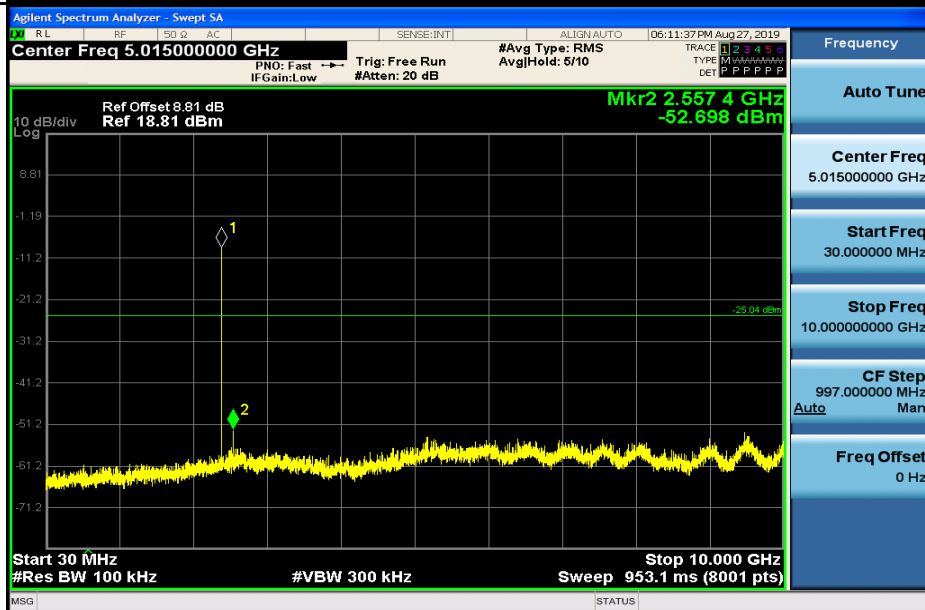


Frequency
Auto Tune
Center Freq 18.000000000 GHz
Start Freq 10.000000000 GHz
Stop Freq 26.000000000 GHz
CF Step 1.600000000 GHz Auto
Freq Offset 0 Hz

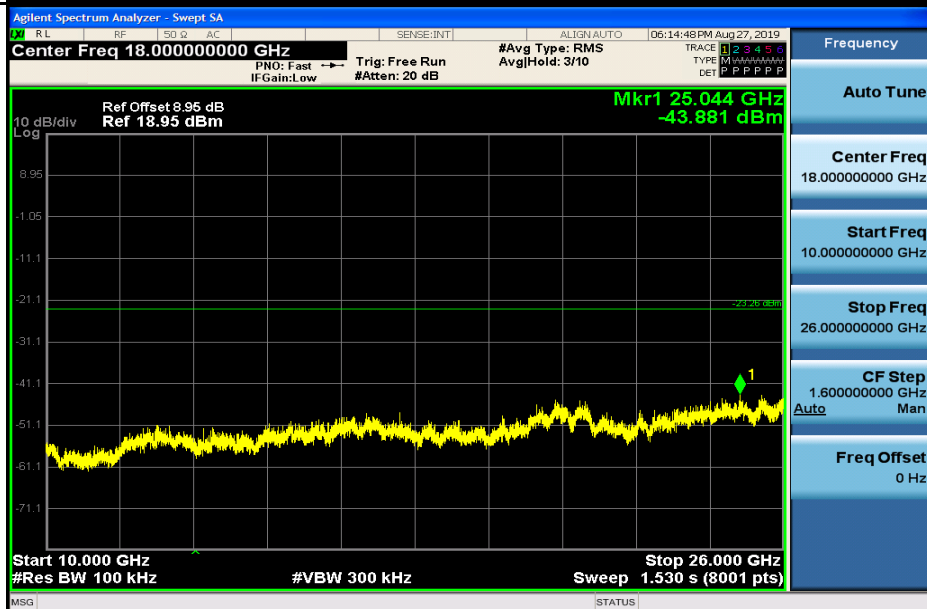
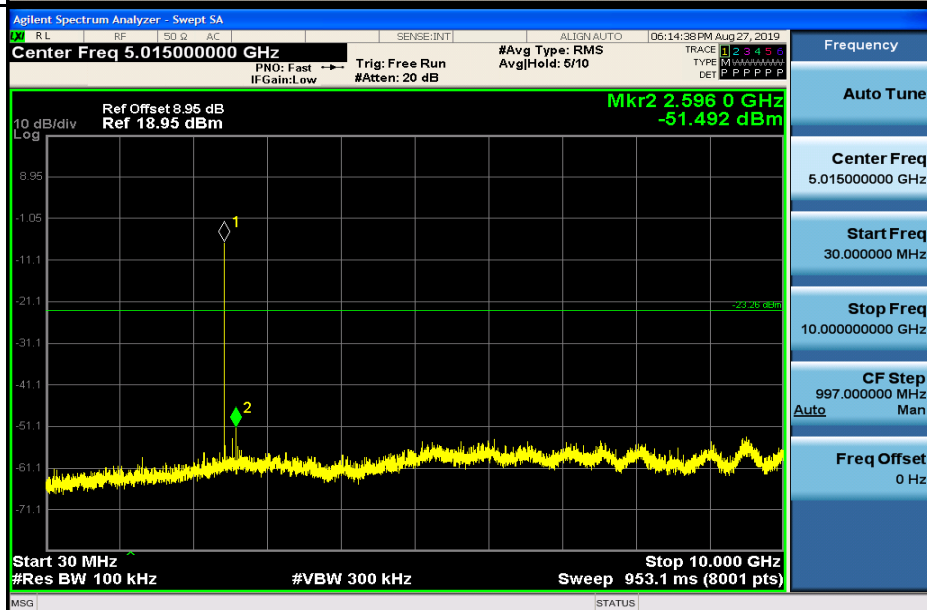
RF Conducted Spurious Emissions_2DH5_2480



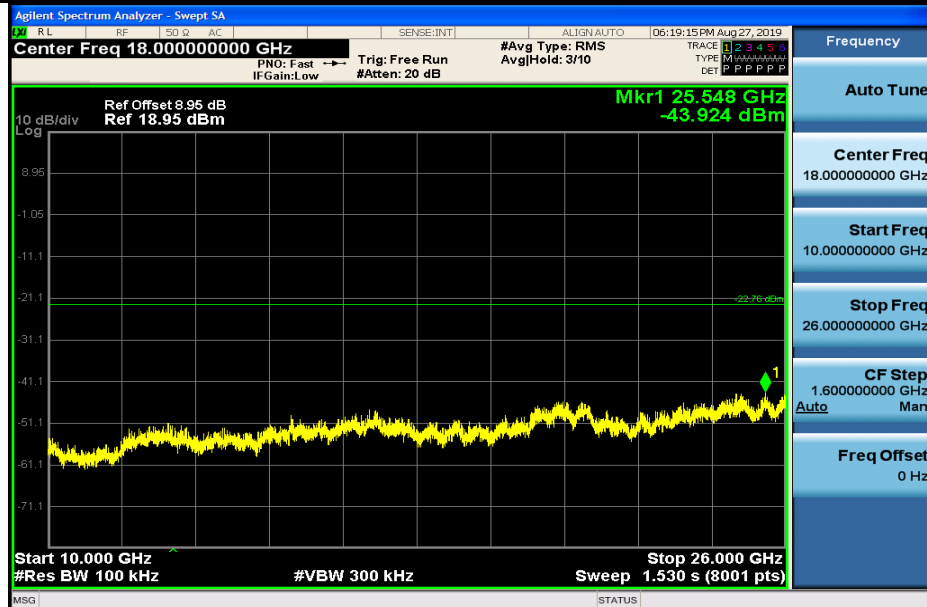
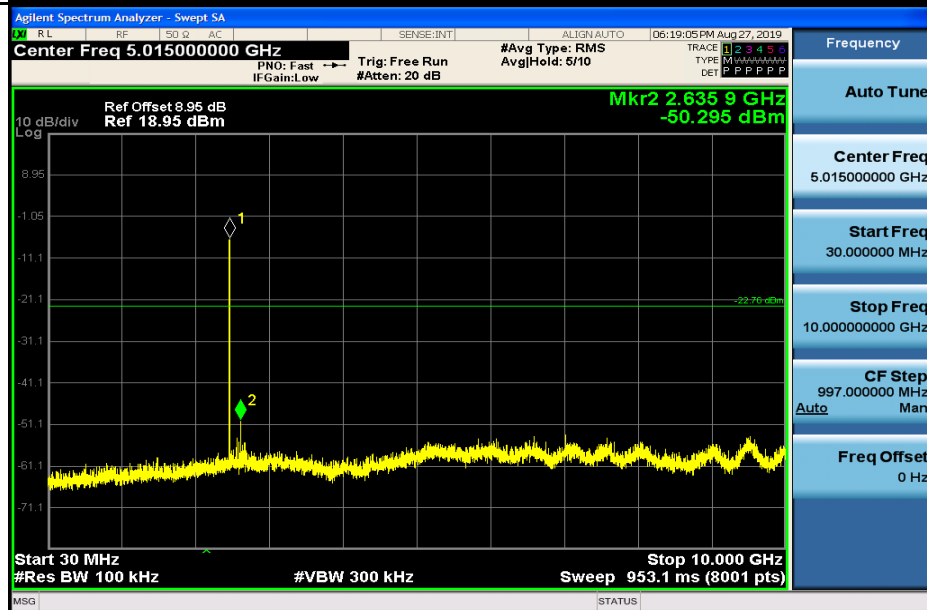
RF Conducted Spurious Emissions_3DH5_2402



RF Conducted Spurious Emissions_3DH5_2441



RF Conducted Spurious Emissions_3DH5_2480





**SGS-CSTC Standards Technical Services Co., Ltd. Shanghai
Branch**