

Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Tablet PC

Trade Mark: T60

Test Model: FUSION5

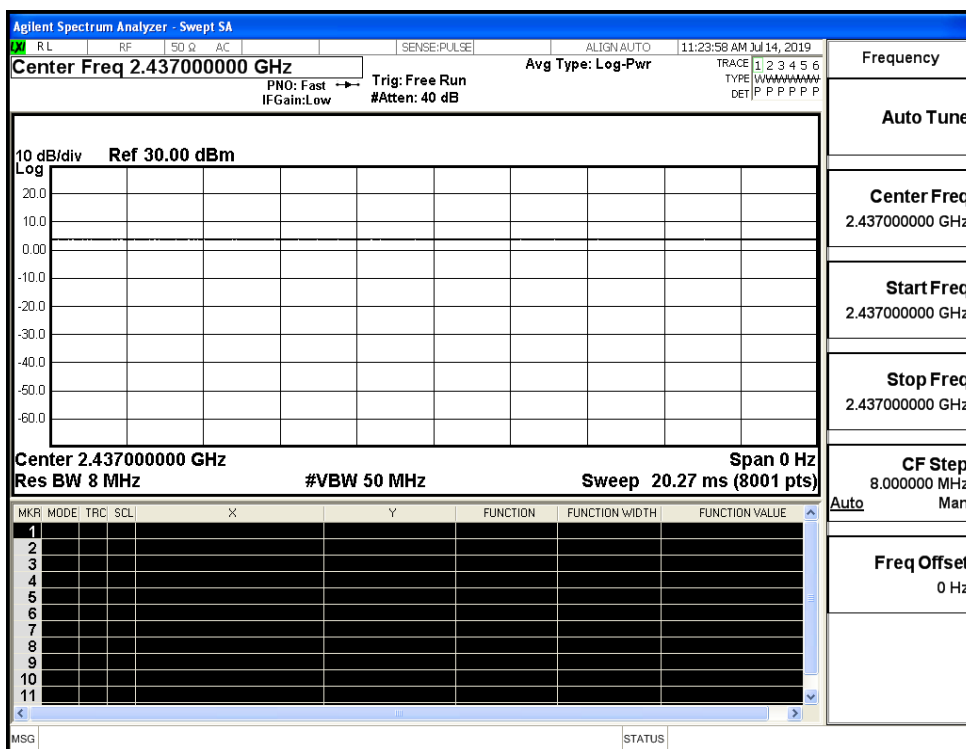
Environmental Conditions

Temperature:	24.1 ° C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	David Luo
Supervised by:	Wang.Chuang

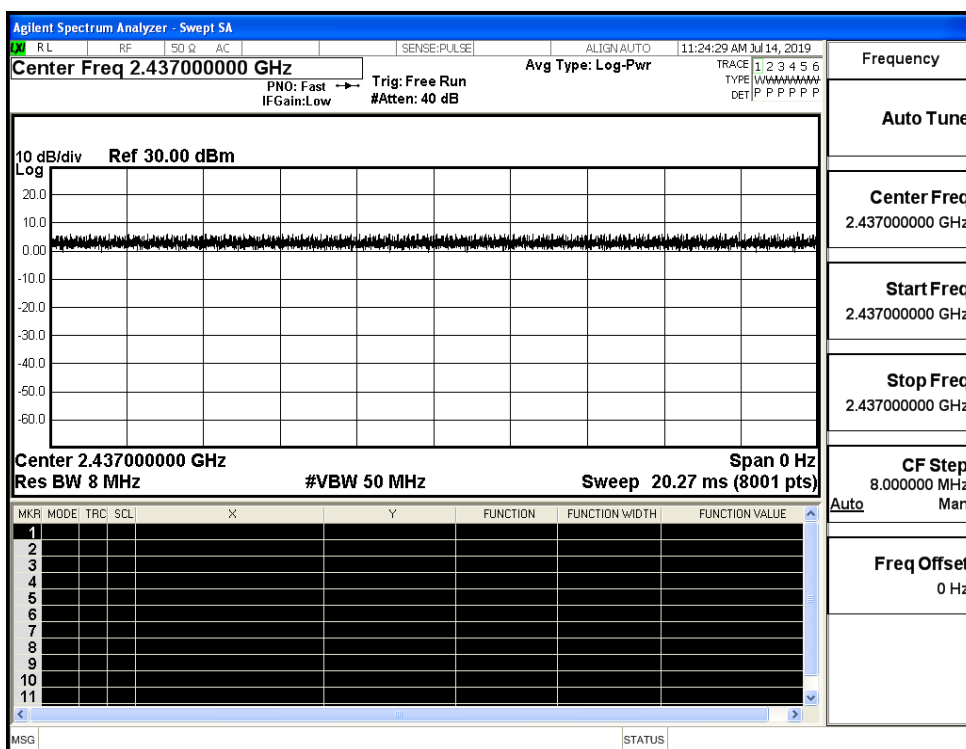
B.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

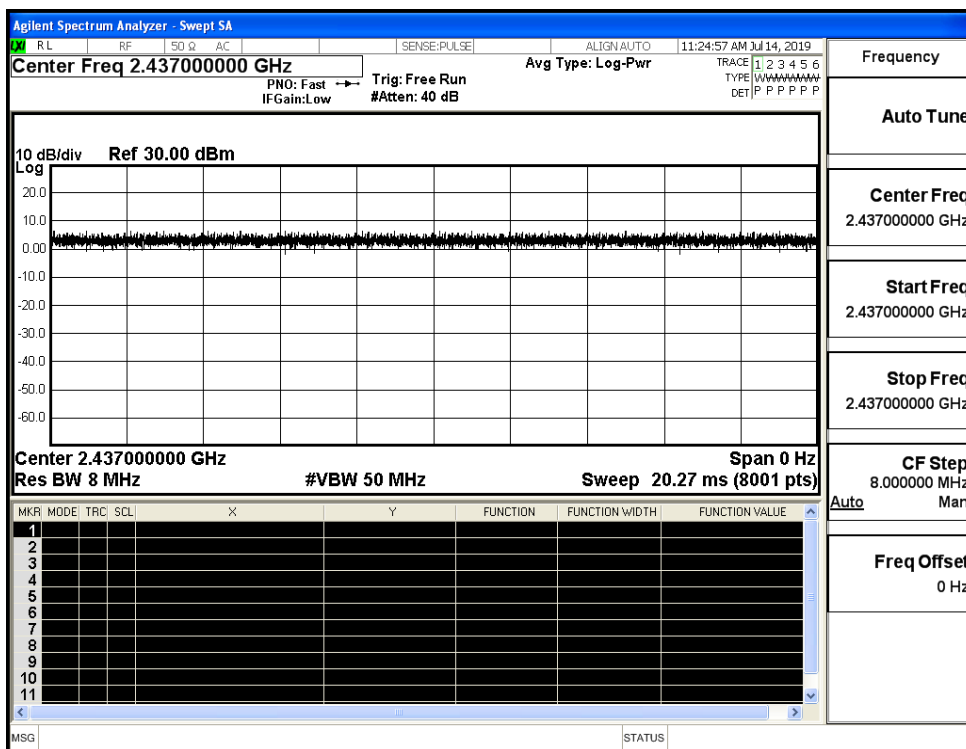
Duty Cycle_11B_2437_Ant1



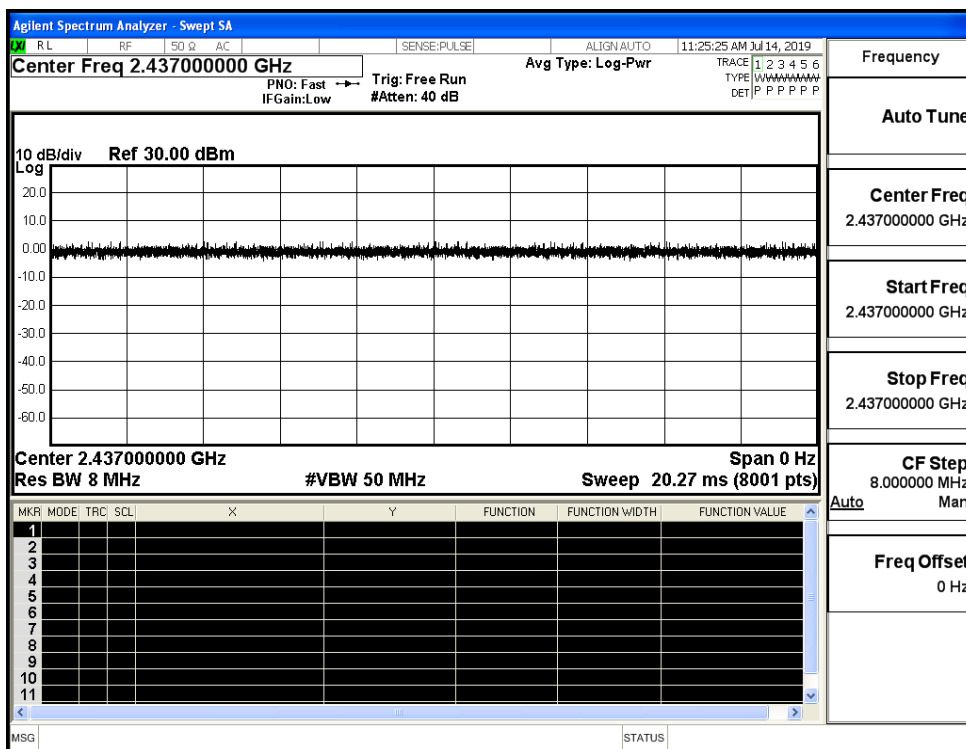
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1



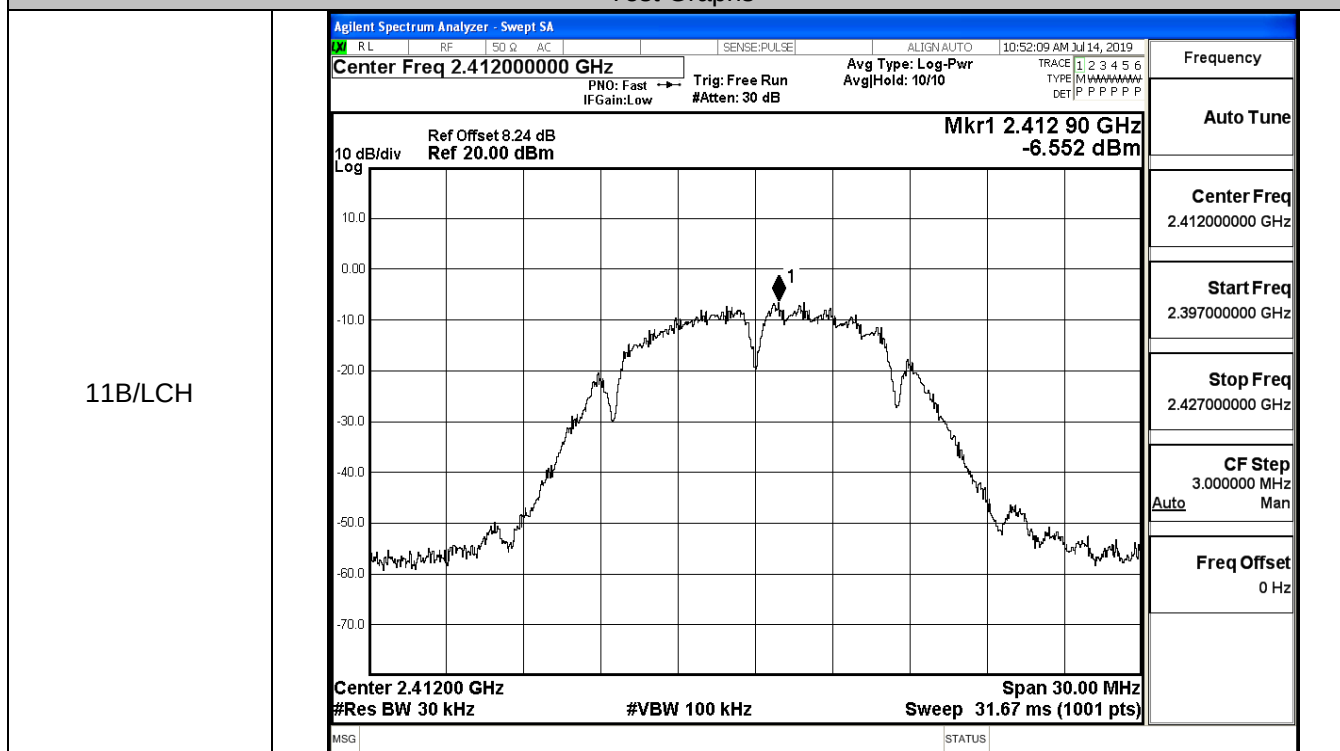
B.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	9.28	30	PASS
	MCH	9.04	30	PASS
	HCH	9.13	30	PASS
11G	LCH	9.06	30	PASS
	MCH	9.01	30	PASS
	HCH	8.93	30	PASS
11N20SISO	LCH	9.12	30	PASS
	MCH	9.06	30	PASS
	HCH	9.31	30	PASS
11N40SISO	LCH	8.89	30	PASS
	MCH	8.96	30	PASS
	HCH	8.91	30	PASS

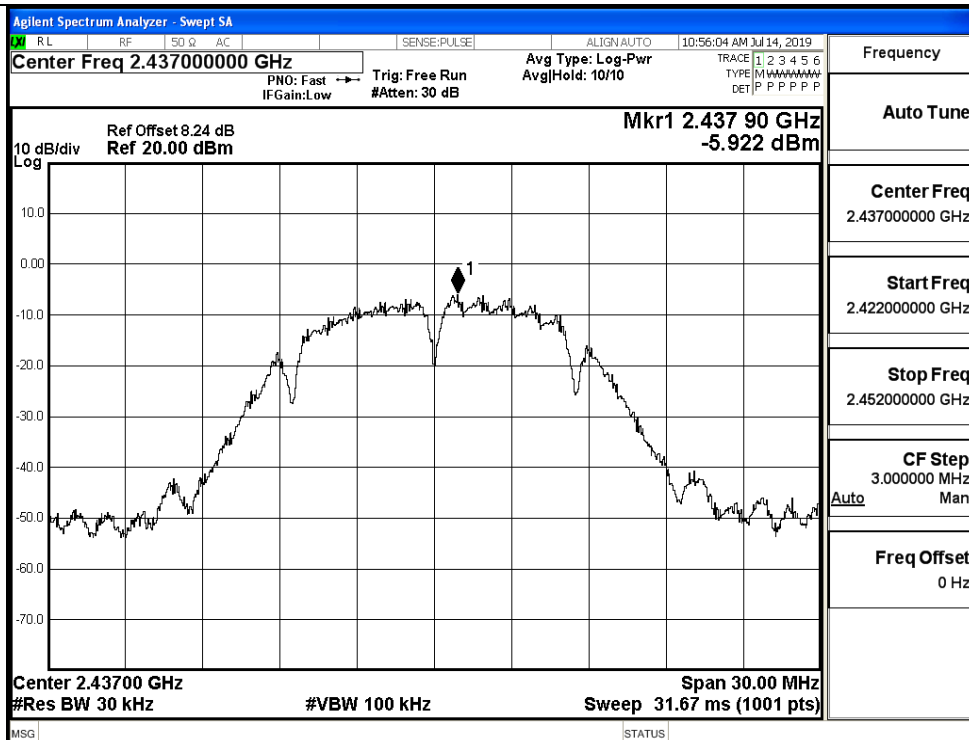
B.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-6.552	8	PASS
	MCH	-5.922	8	PASS
	HCH	-6.679	8	PASS
11G	LCH	-9.397	8	PASS
	MCH	-7.971	8	PASS
	HCH	-8.822	8	PASS
11N20SISO	LCH	-8.723	8	PASS
	MCH	-8.393	8	PASS
	HCH	-7.976	8	PASS
11N40SISO	LCH	-10.898	8	PASS
	MCH	-10.373	8	PASS
	HCH	-10.014	8	PASS

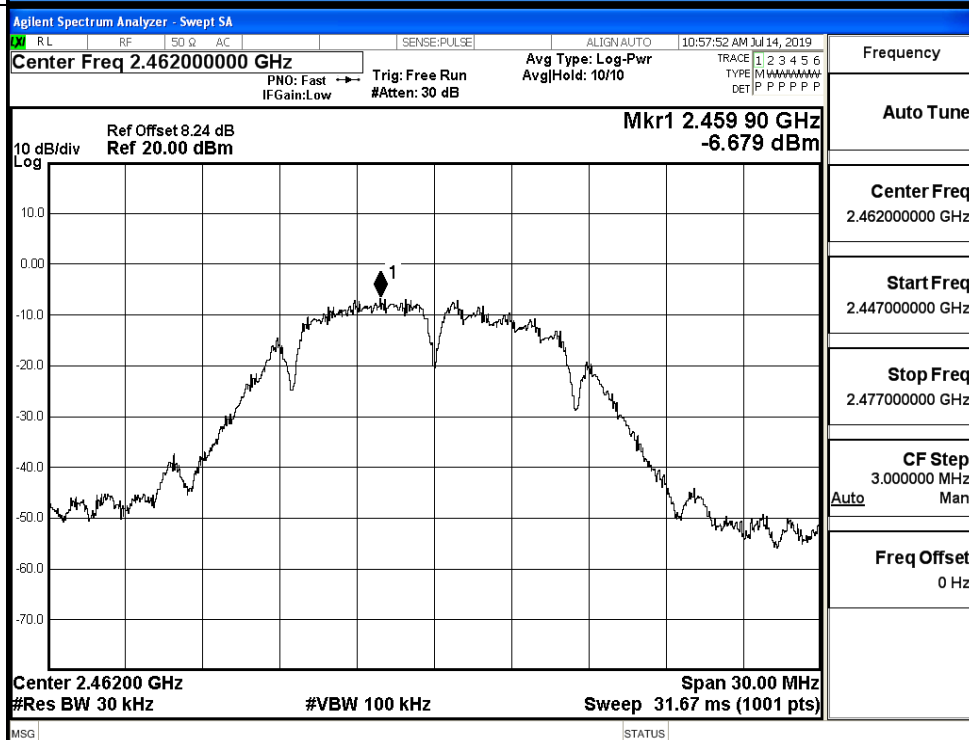
Test Graphs



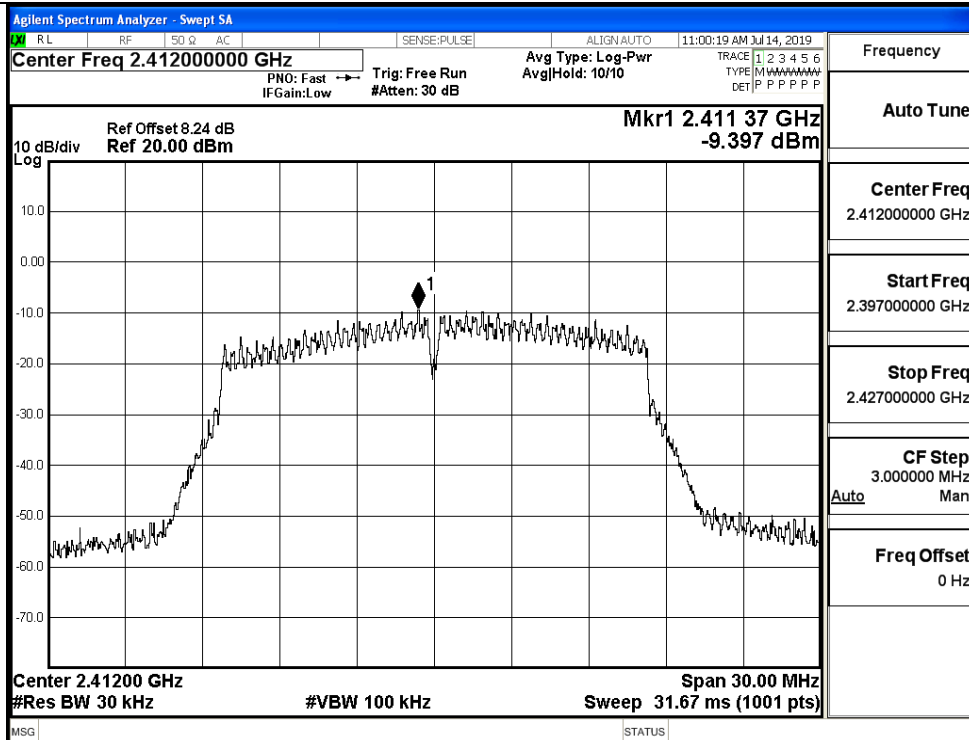
11B/MCH



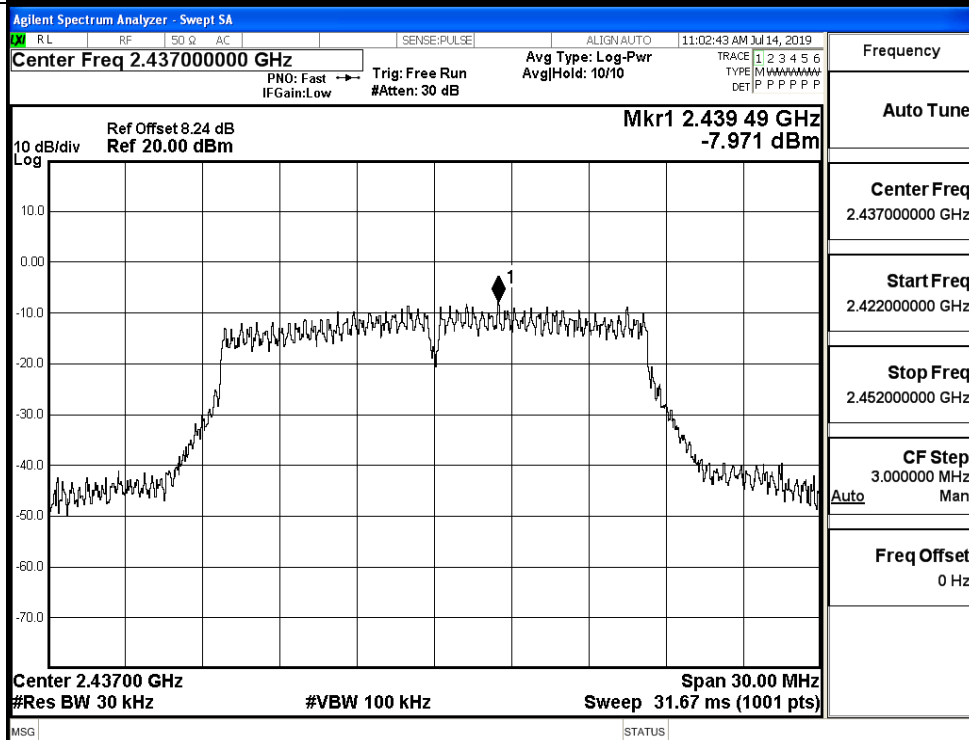
11B/HCH



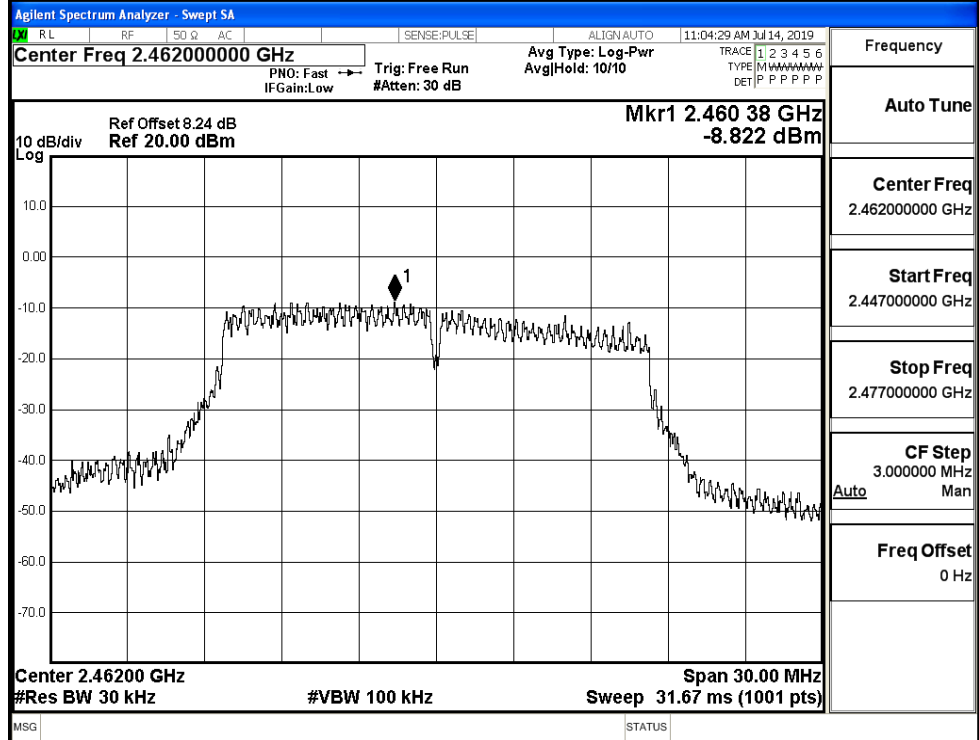
11G/LCH



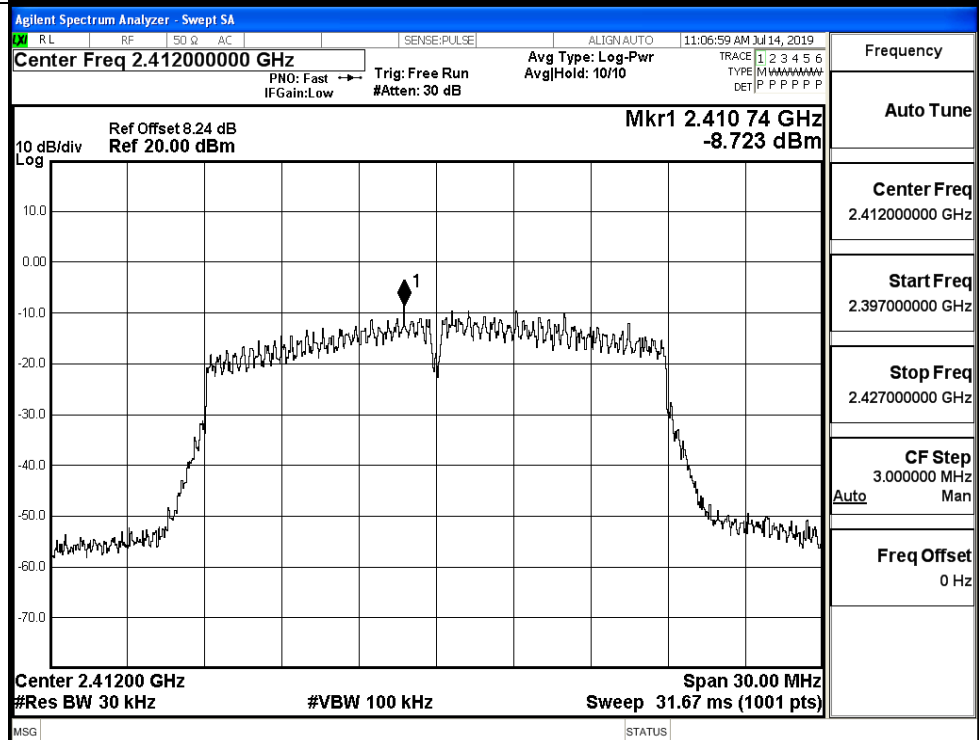
11G/MCH

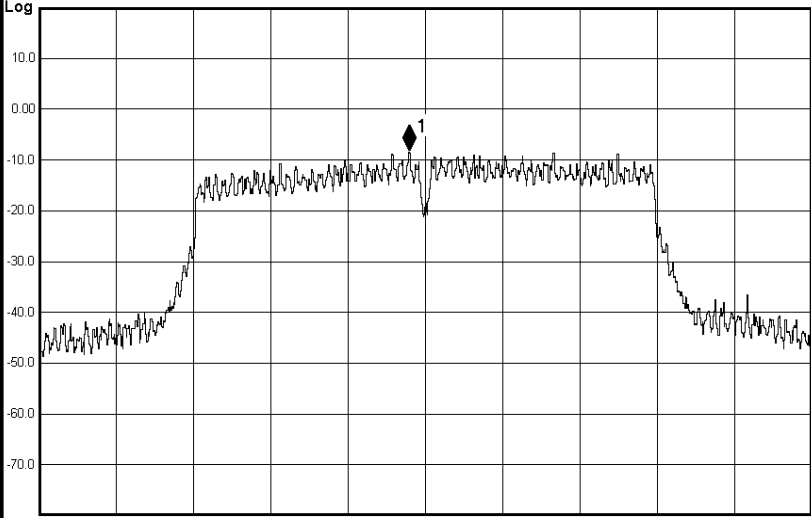
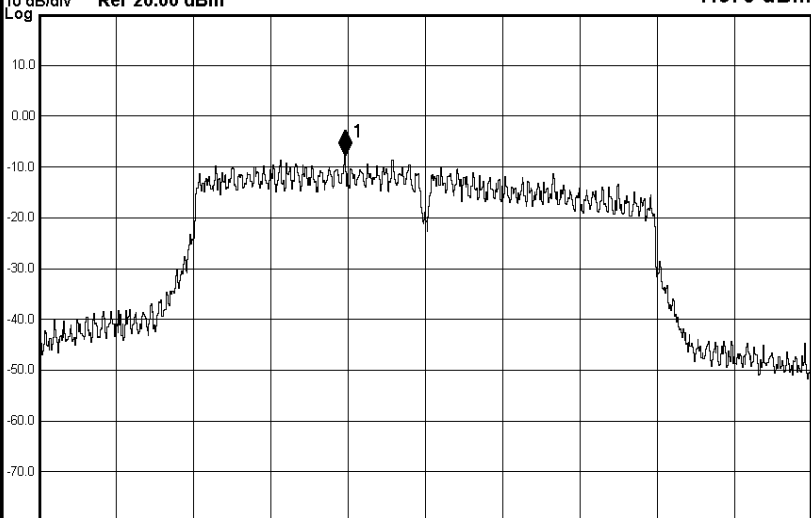


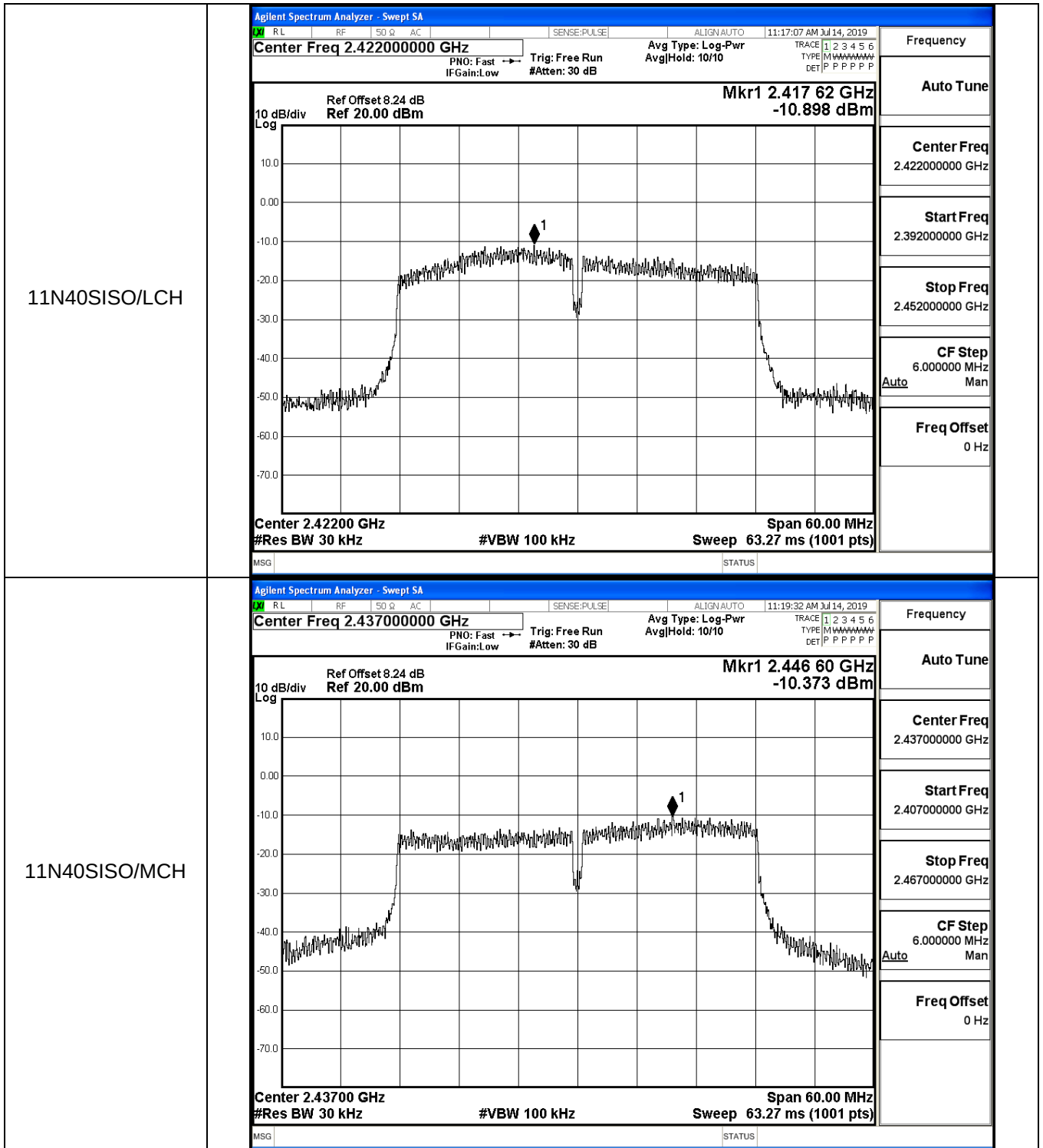
11G/HCH



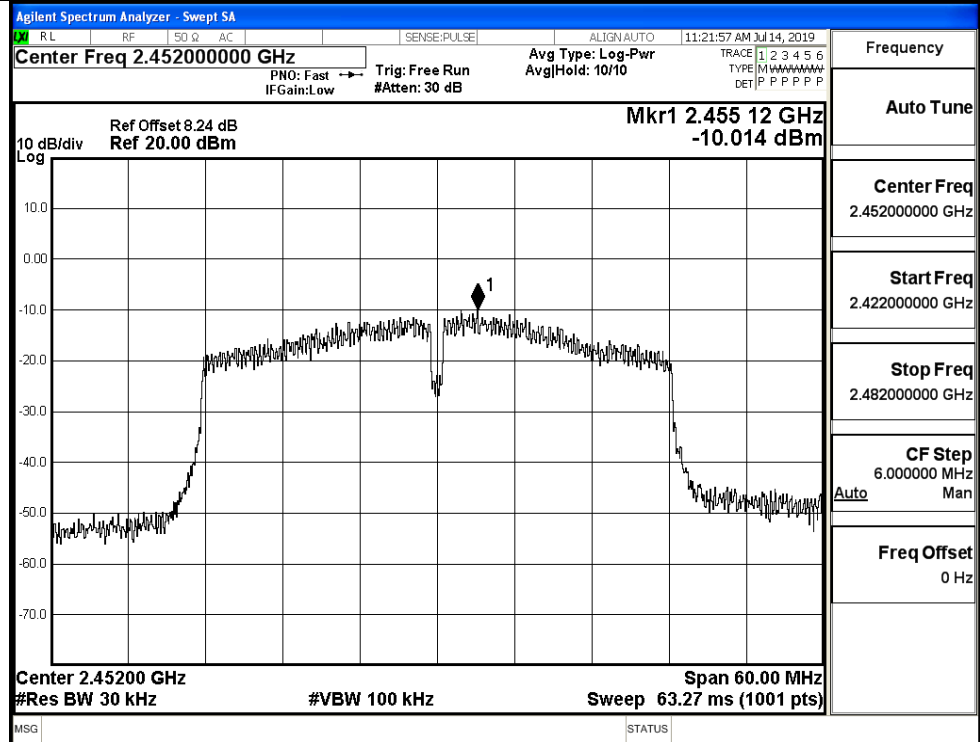
11N20SISO/LCH



11N20SISO/MCH	Agilent Spectrum Analyzer - Swept SA RL RF SO Q AC SENSE:PULSE ALIGN: AUTO 11:09:30 AM Jul 14, 2019 Center Freq 2.437000000 GHz PNO: Fast IFGain: Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr AvgHold: 10/10 TRACE 1 2 3 4 5 6 TYPE M W W W W W W W DET P P P P P P P Ref Offset 8.24 dB Ref 20.00 dBm Mkr1 2.436 37 GHz -8.393 dBm  Center 2.43700 GHz #Res BW 30 kHz #VBW 100 kHz Span 30.00 MHz Sweep 31.67 ms (1001 pts) MSG STATUS	Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.422000000 GHz Stop Freq 2.452000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
11N20SISO/HCH	Agilent Spectrum Analyzer - Swept SA RL RF SO Q AC SENSE:PULSE ALIGN: AUTO 11:11:07 AM Jul 14, 2019 Center Freq 2.462000000 GHz PNO: Fast IFGain: Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr AvgHold: 10/10 TRACE 1 2 3 4 5 6 TYPE M W W W W W W W DET P P P P P P P Ref Offset 8.24 dB Ref 20.00 dBm Mkr1 2.458 88 GHz -7.976 dBm  Center 2.46200 GHz #Res BW 30 kHz #VBW 100 kHz Span 30.00 MHz Sweep 31.67 ms (1001 pts) MSG STATUS	Frequency Auto Tune Center Freq 2.462000000 GHz Start Freq 2.447000000 GHz Stop Freq 2.477000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz



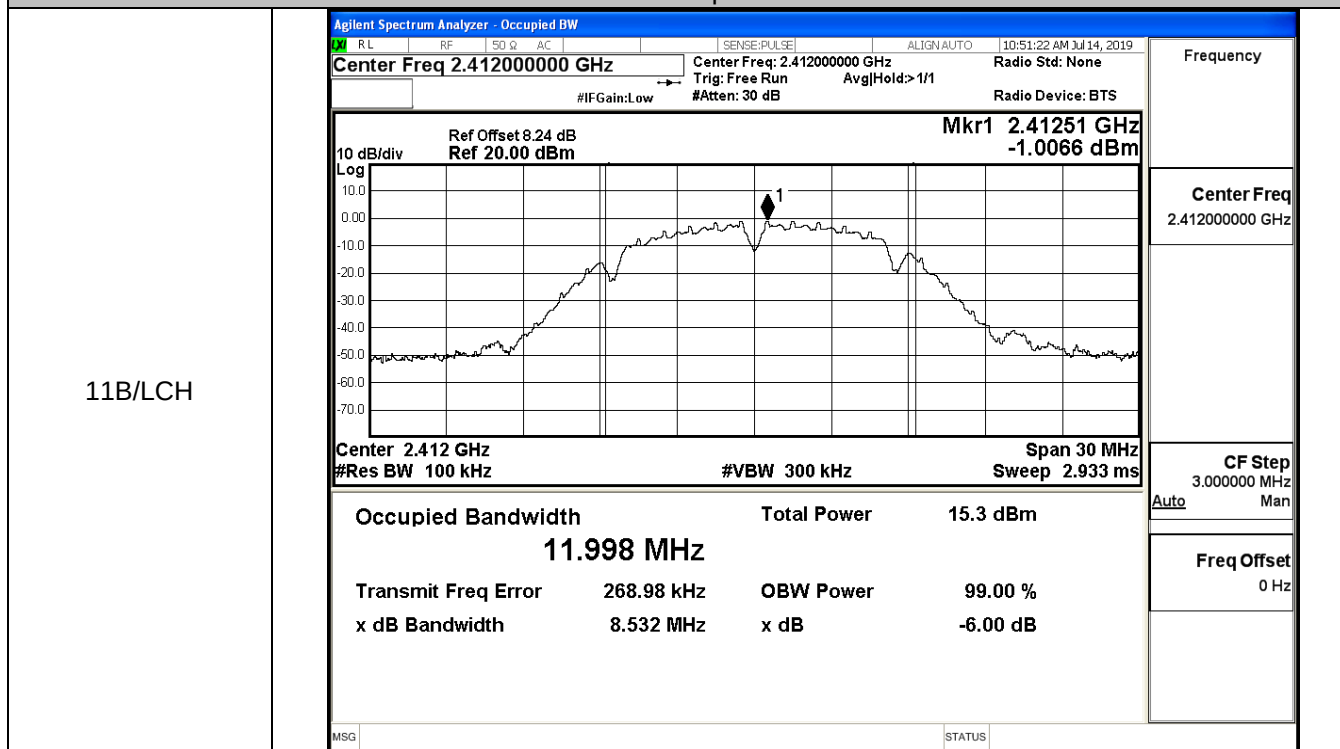
11N40SISO/HCH



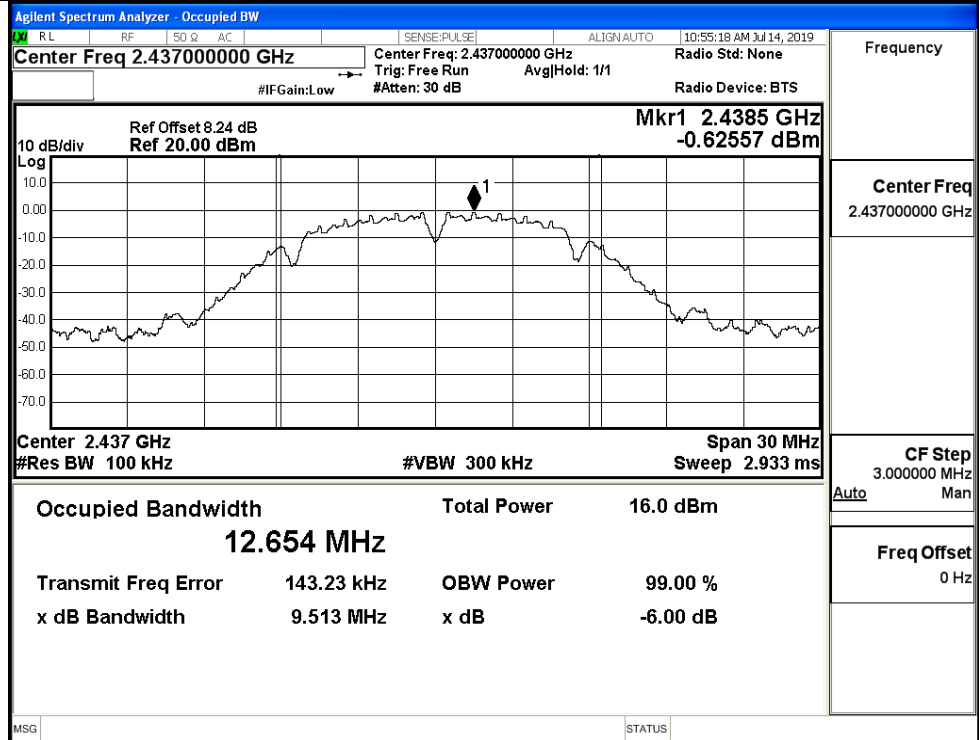
B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.532	≥ 0.5	PASS
	MCH	9.513	≥ 0.5	PASS
	HCH	8.623	≥ 0.5	PASS
11G	LCH	15.08	≥ 0.5	PASS
	MCH	15.70	≥ 0.5	PASS
	HCH	15.72	≥ 0.5	PASS
11N20SISO	LCH	12.62	≥ 0.5	PASS
	MCH	16.37	≥ 0.5	PASS
	HCH	16.34	≥ 0.5	PASS
11N40SISO	LCH	34.18	≥ 0.5	PASS
	MCH	36.43	≥ 0.5	PASS
	HCH	25.93	≥ 0.5	PASS

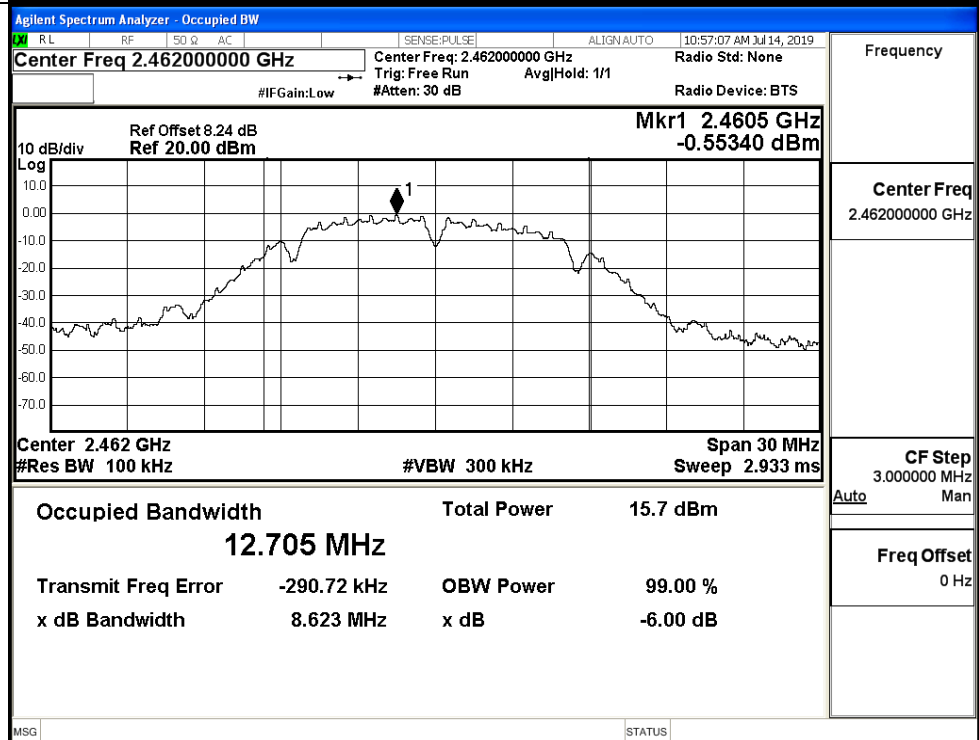
Test Graphs



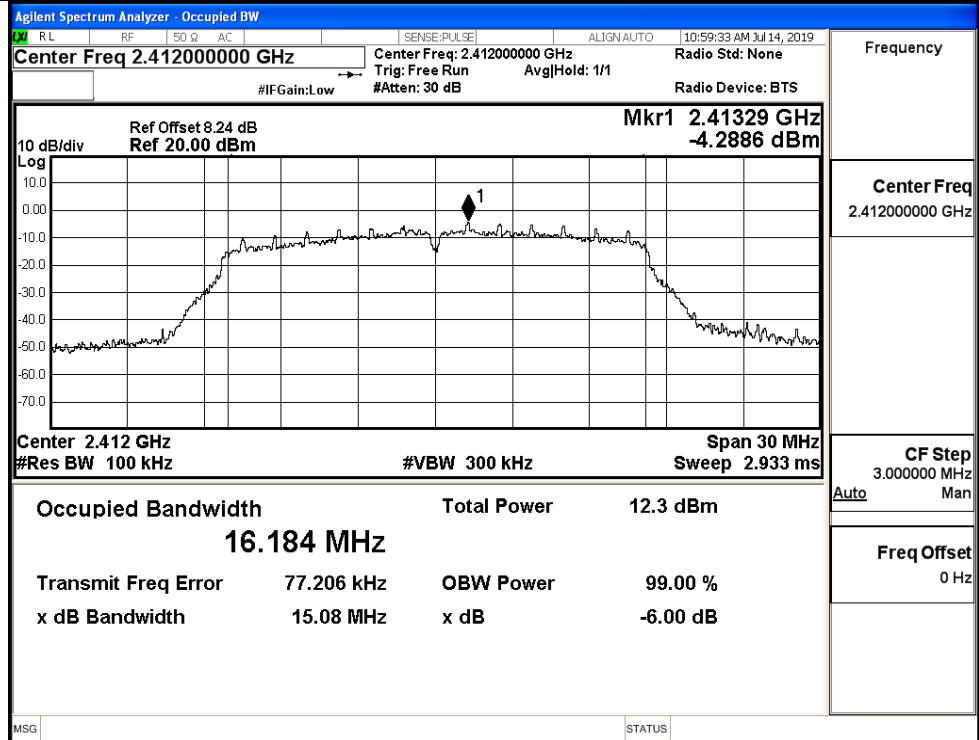
11B/MCH



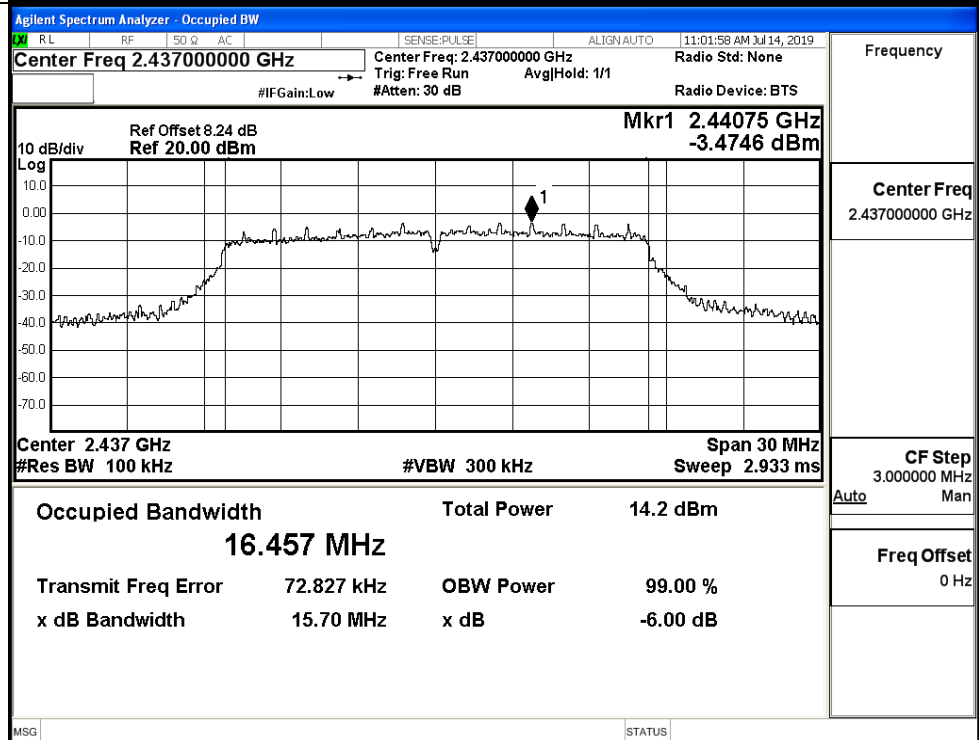
11B/HCH



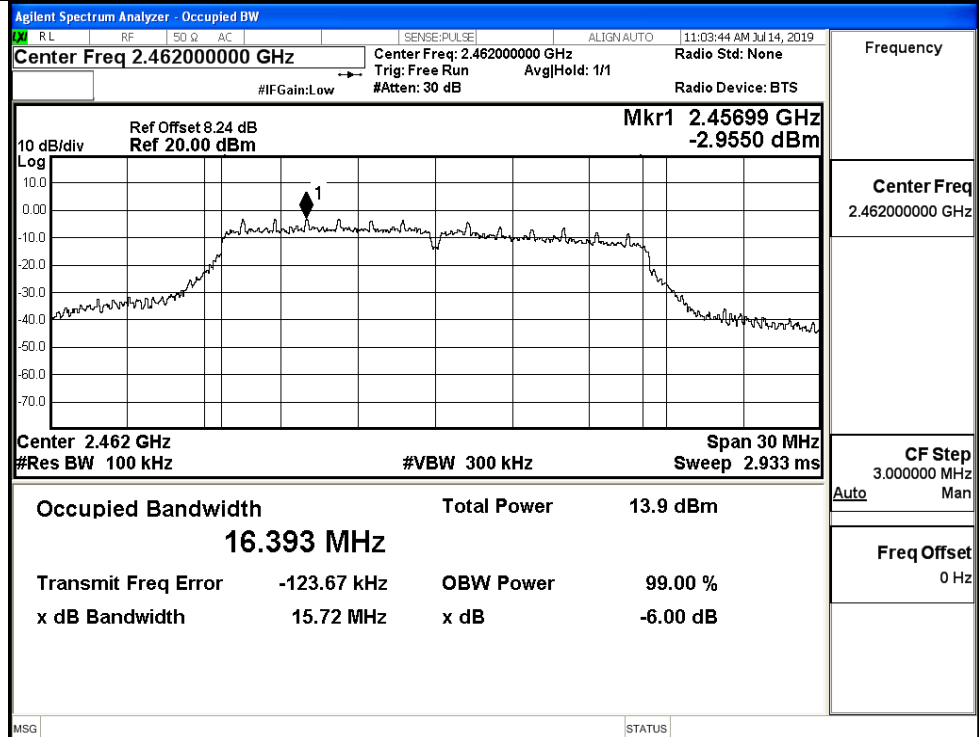
11G/LCH



11G/MCH



11G/HCH



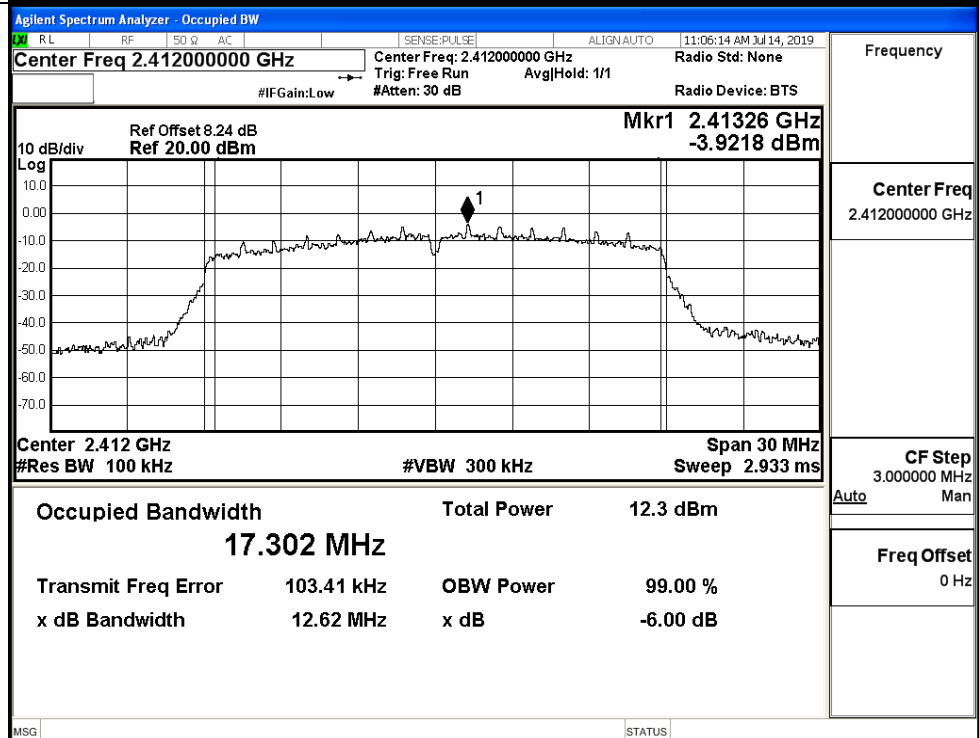
Frequency

Center Freq
2.462000000 GHz

CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

11N20SISO/LCH

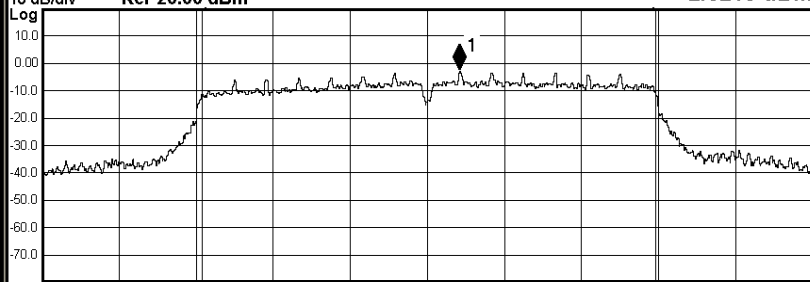
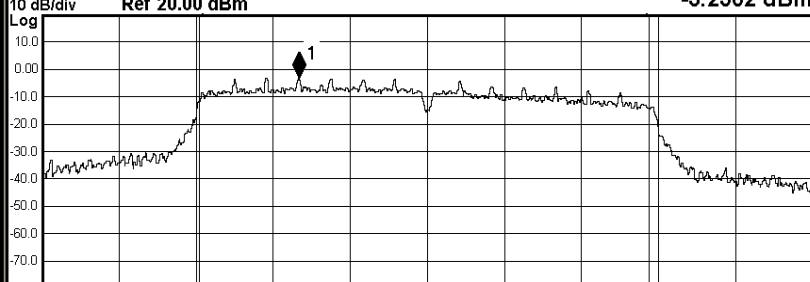


Frequency

Center Freq
2.412000000 GHz

CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

11N20SISO/MCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:PULSE ALIGN: AUTO 11:08:44 AM Jul 14, 2019 Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None #IF Gain: Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.24 dB Ref 20.00 dBm Mkr1 2.43826 GHz -2.8215 dBm  Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.608 MHz Total Power 14.3 dBm Transmit Freq Error 67.843 kHz OBW Power 99.00 % x dB Bandwidth 16.37 MHz x dB -6.00 dB MSG STATUS	Frequency Center Freq 2.437000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz	
	11N20SISO/HCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:PULSE ALIGN: AUTO 11:10:22 AM Jul 14, 2019 Center Freq 2.462000000 GHz Center Freq: 2.462000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None #IF Gain: Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.24 dB Ref 20.00 dBm Mkr1 2.45702 GHz -3.2502 dBm  Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.490 MHz Total Power 13.8 dBm Transmit Freq Error -116.52 kHz OBW Power 99.00 % x dB Bandwidth 16.34 MHz x dB -6.00 dB MSG STATUS	Frequency Center Freq 2.462000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz

11N40SISO/LCH

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.42200000 GHz

Ref Offset 8.24 dB
Ref 20.00 dBm

Mkr1 2.4166 GHz
-7.8610 dBm

10 dB/div
Log

Center 2.422 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 60 MHz
Sweep 5.8 ms

Occupied Bandwidth		Total Power	13.9 dBm
35.612 MHz			
Transmit Freq Error	98.710 kHz	OBW Power	99.00 %
x dB Bandwidth	34.18 MHz	x dB	-6.00 dB

Frequency

Center Freq
2.422000000 GHz

CF Step
6.000000 MHz
Auto Man

Freq Offset
0 Hz

11N40SISO/MCH

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.437000000 GHz

Ref Offset 8.24 dB
Ref 20.00 dBm

Mkr1 2.44912 GHz
-7.2894 dBm

10 dB/div
Log

Center 2.437 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 60 MHz
Sweep 5.8 ms

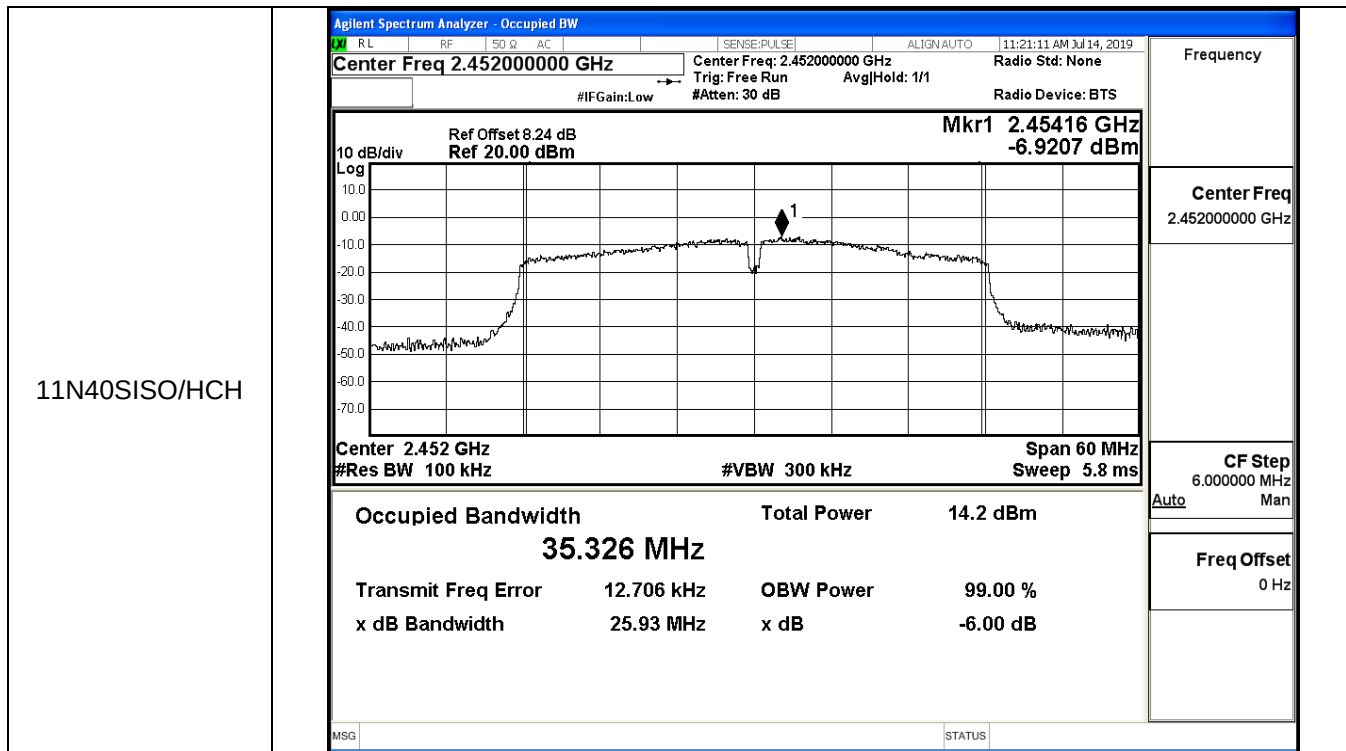
Occupied Bandwidth		Total Power	14.9 dBm
36.201 MHz			
Transmit Freq Error	55.004 kHz	OBW Power	99.00 %
x dB Bandwidth	36.43 MHz	x dB	-6.00 dB

Frequency

Center Freq
2.437000000 GHz

CF Step
6.000000 MHz
Auto Man

Freq Offset
0 Hz



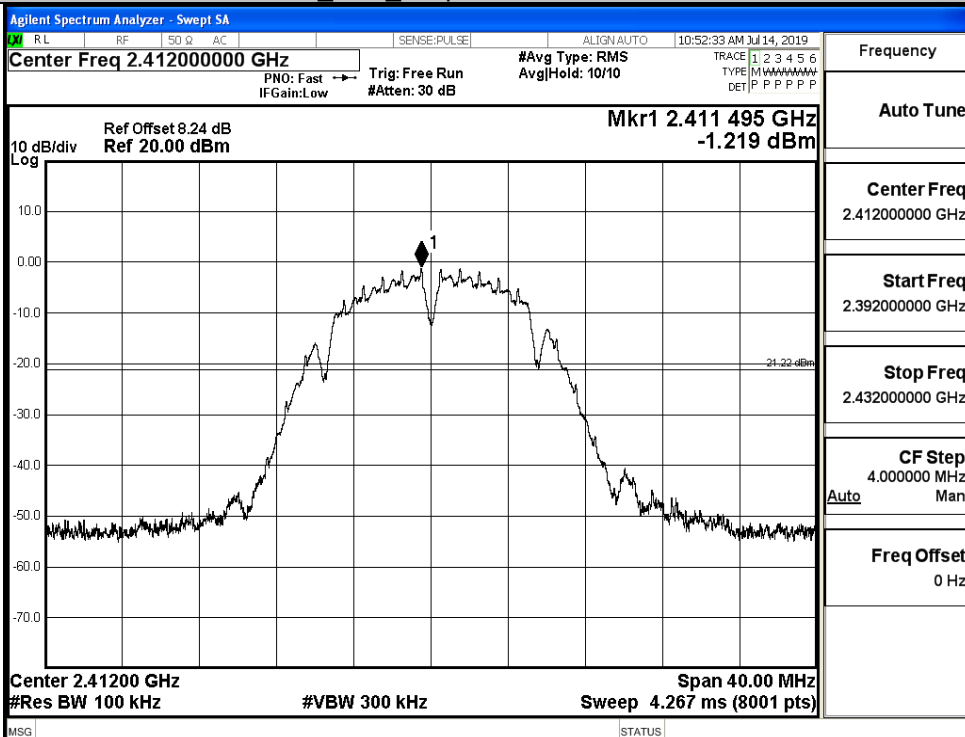
B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdic
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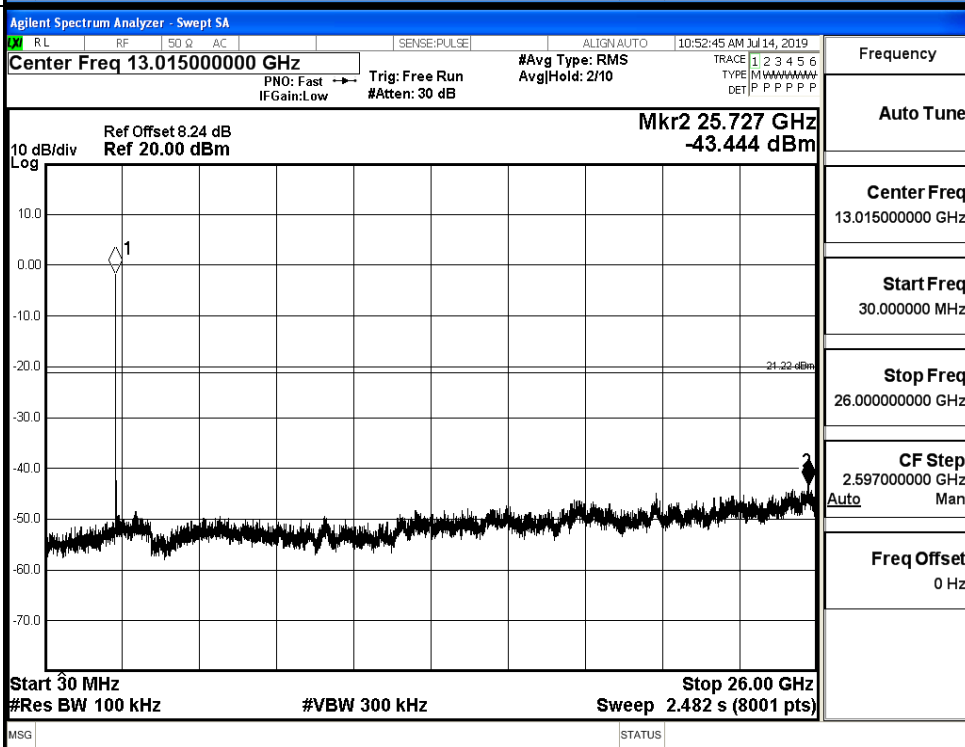
					t
11B	LCH	-1.219	-43.444	-21.219	PASS
	MCH	-0.876	-43.040	-20.876	PASS
	HCH	-0.751	-42.756	-20.751	PASS
11G	LCH	-4.455	-43.488	-24.455	PASS
	MCH	-2.959	-43.146	-22.959	PASS
	HCH	-3.14	-43.969	-23.140	PASS
11N20 SISO	LCH	-4.064	-43.984	-24.064	PASS
	MCH	-2.859	-43.867	-22.859	PASS
	HCH	-3.135	-43.077	-23.135	PASS
11N40 SISO	LCH	-8.193	-43.320	-28.193	PASS
	MCH	-7.412	-43.376	-27.412	PASS
	HCH	-7.059	-42.609	-27.059	PASS

11B LCH Graphs

Pref/11B/LCH

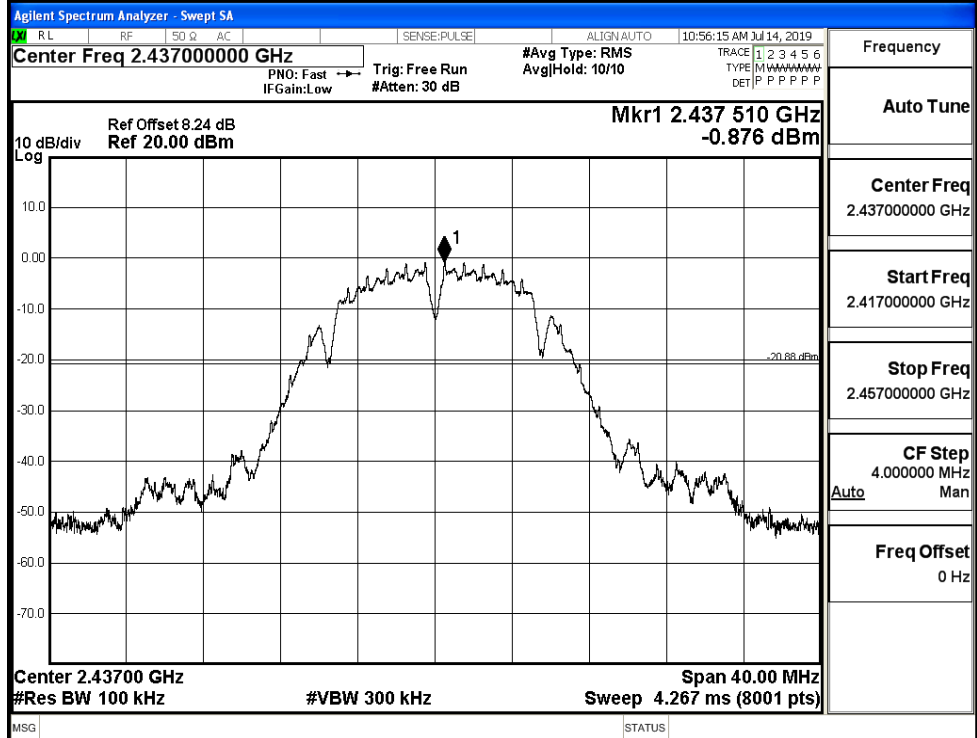


Puw/11B/LCH

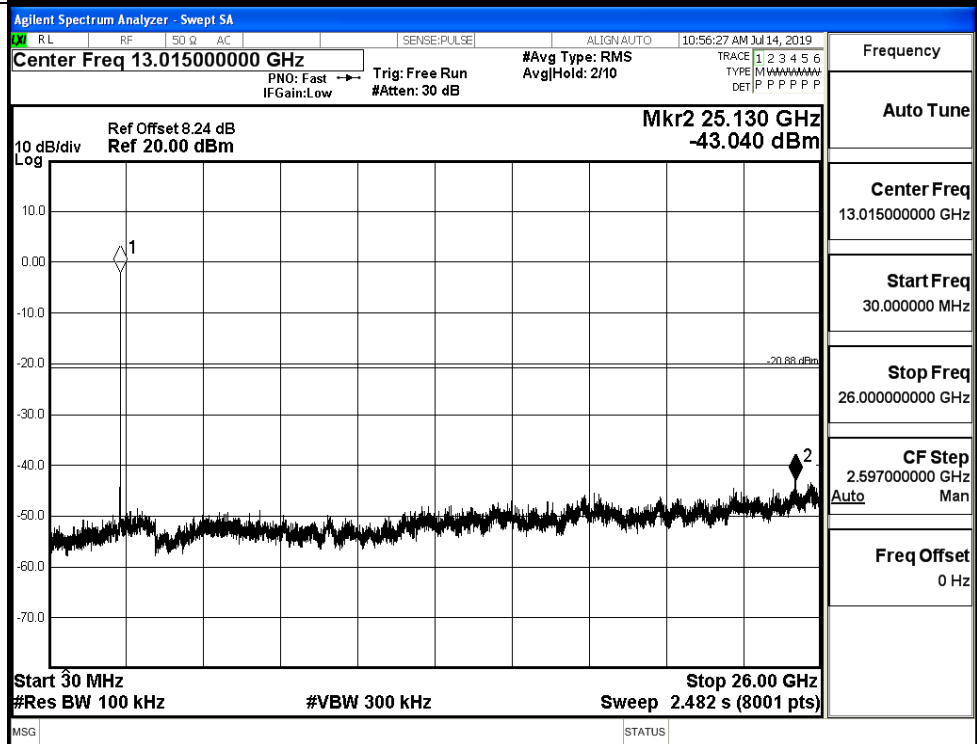


11B MCH Graphs

Pref/11B/MCH

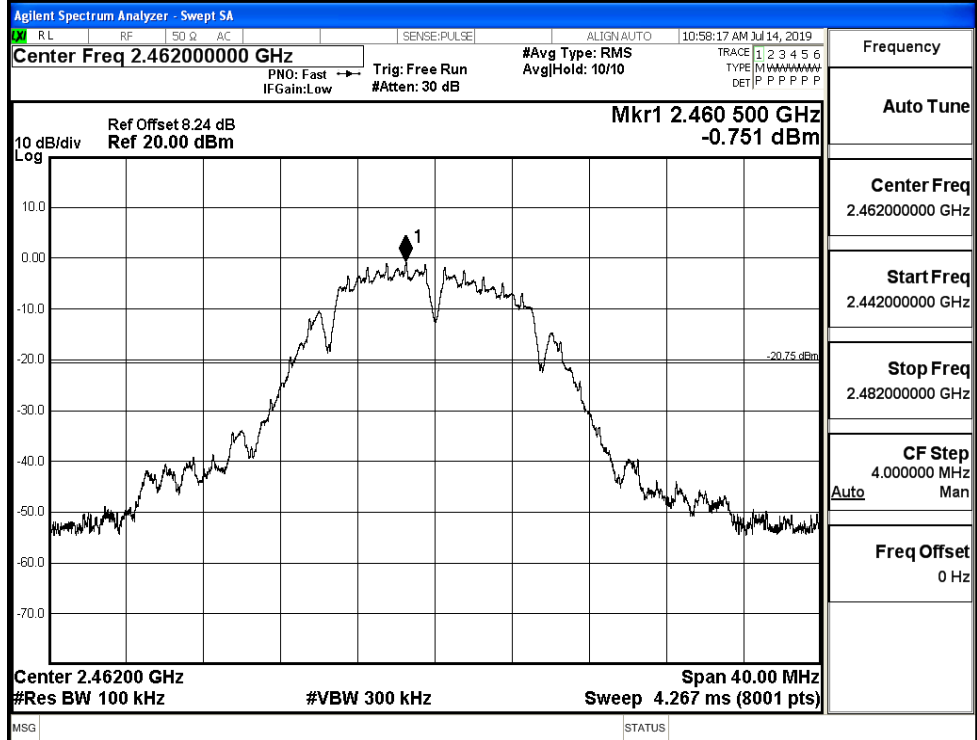


Puw/11B/MCH

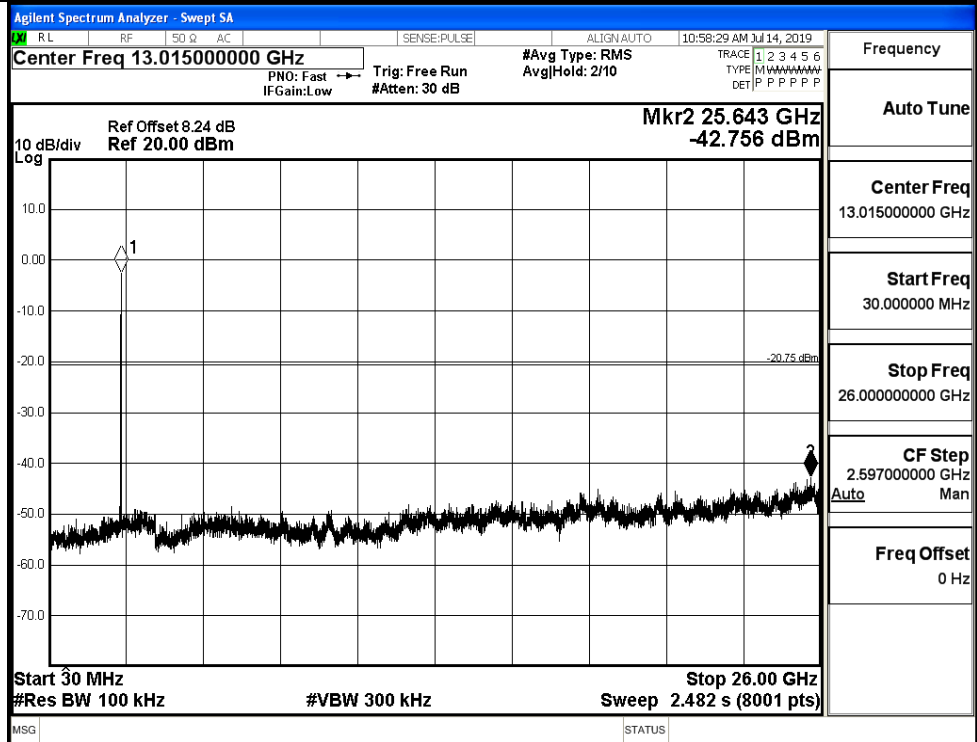


11B HCH Graphs

Pref/11B/HCH

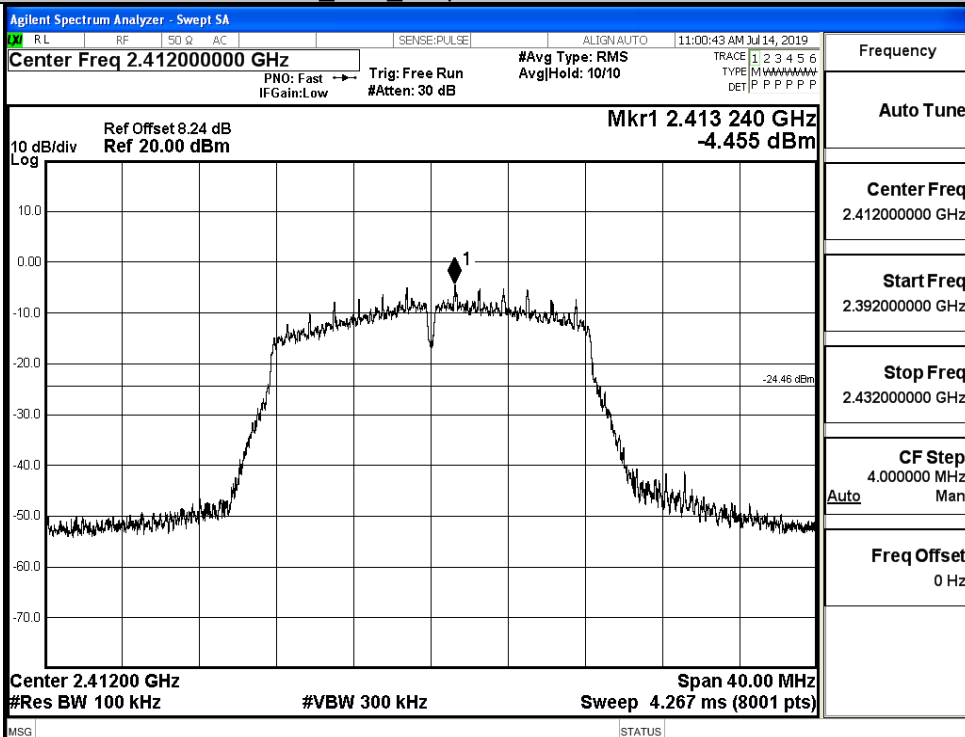


Puw/11B/HCH

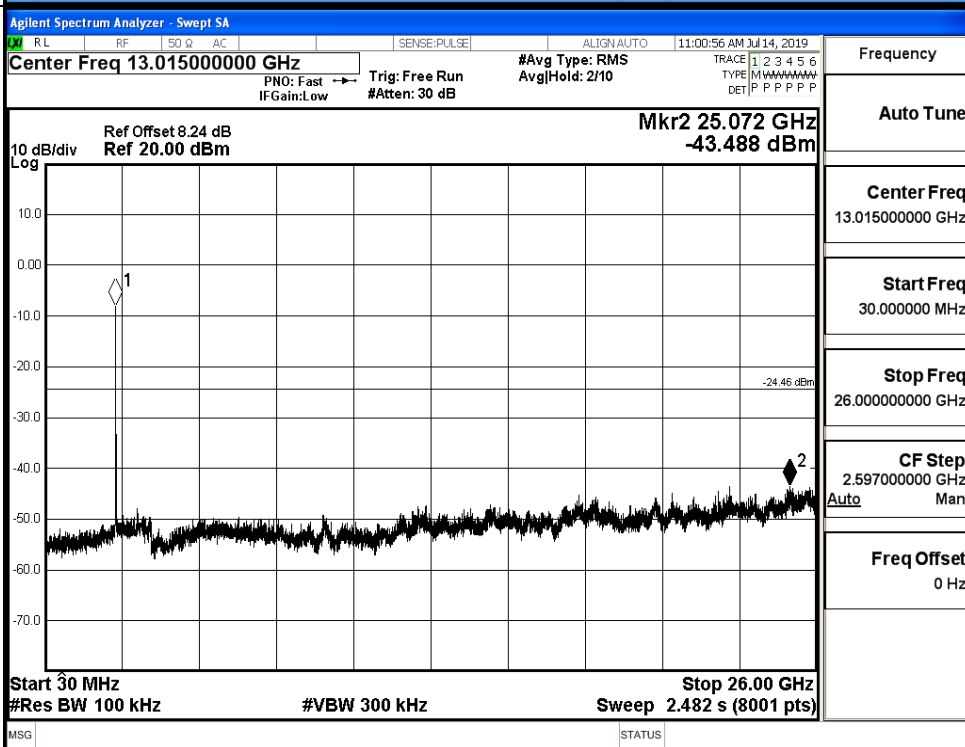


11G LCH Graphs

Pref/11G/LCH

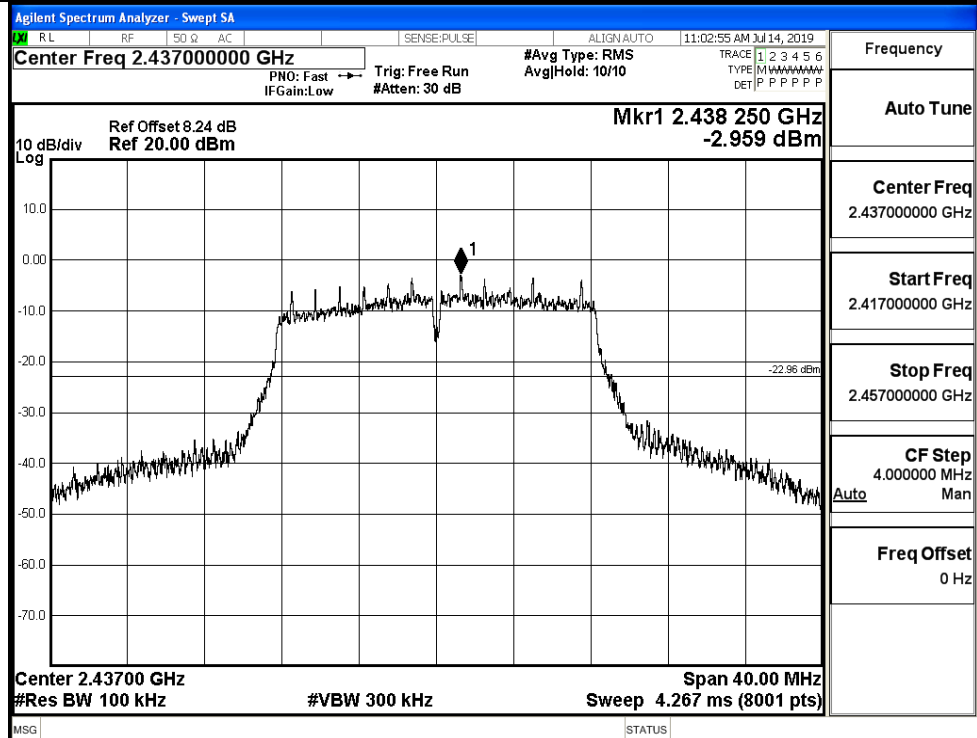


Puw/11G/LCH

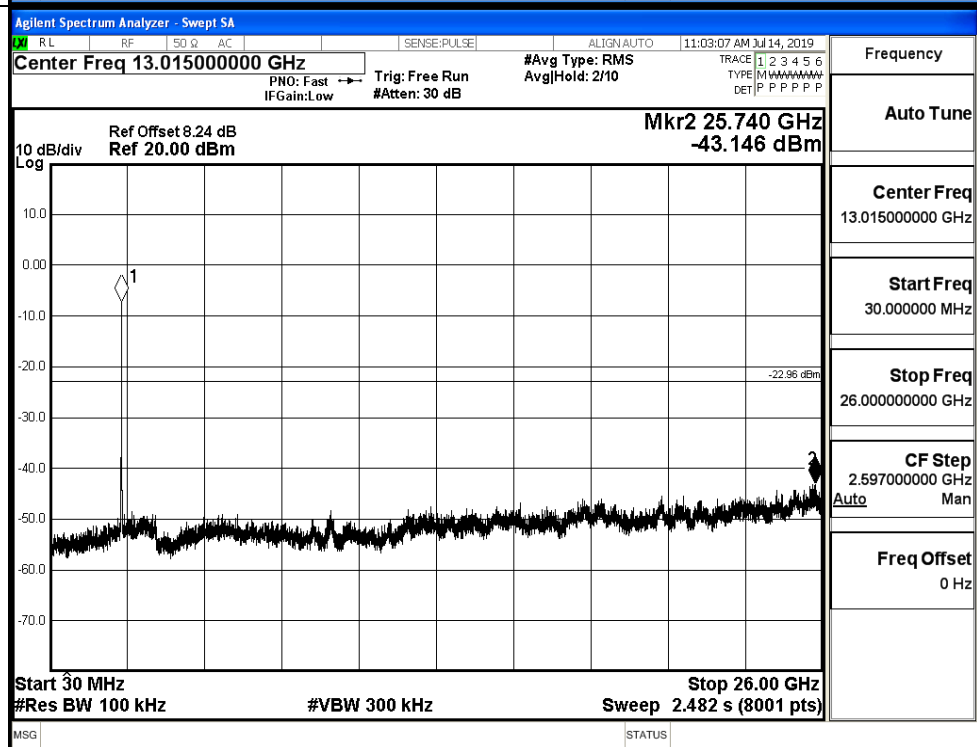


11G MCH Graphs

Pref/11G/MCH

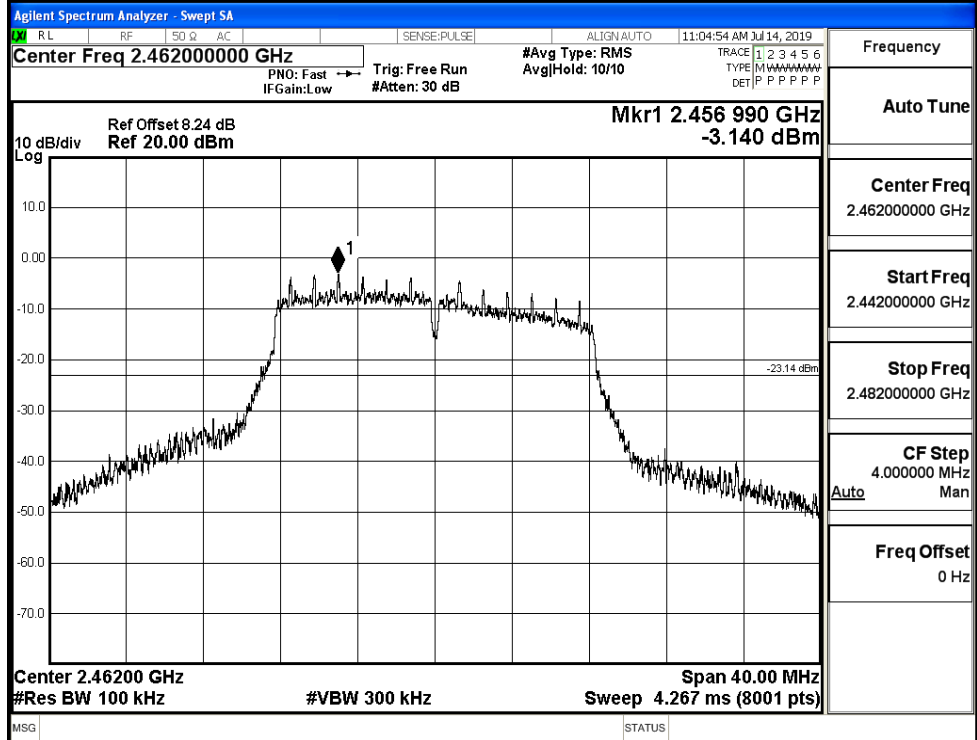


Puw/11G/MCH

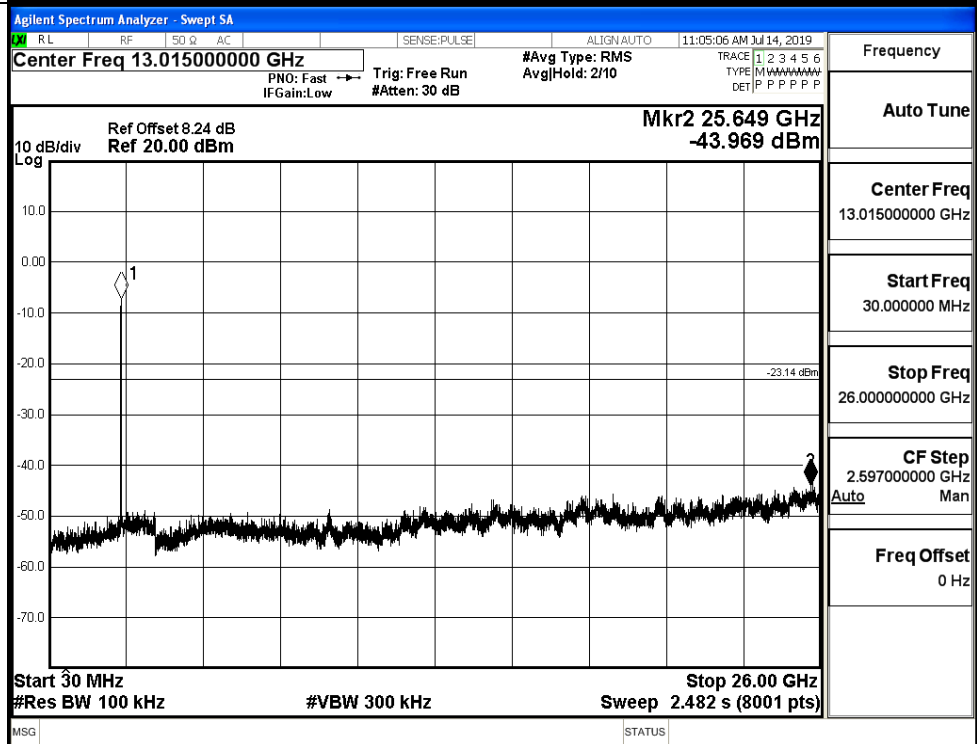


11G HCH Graphs

Pref/11G/HCH

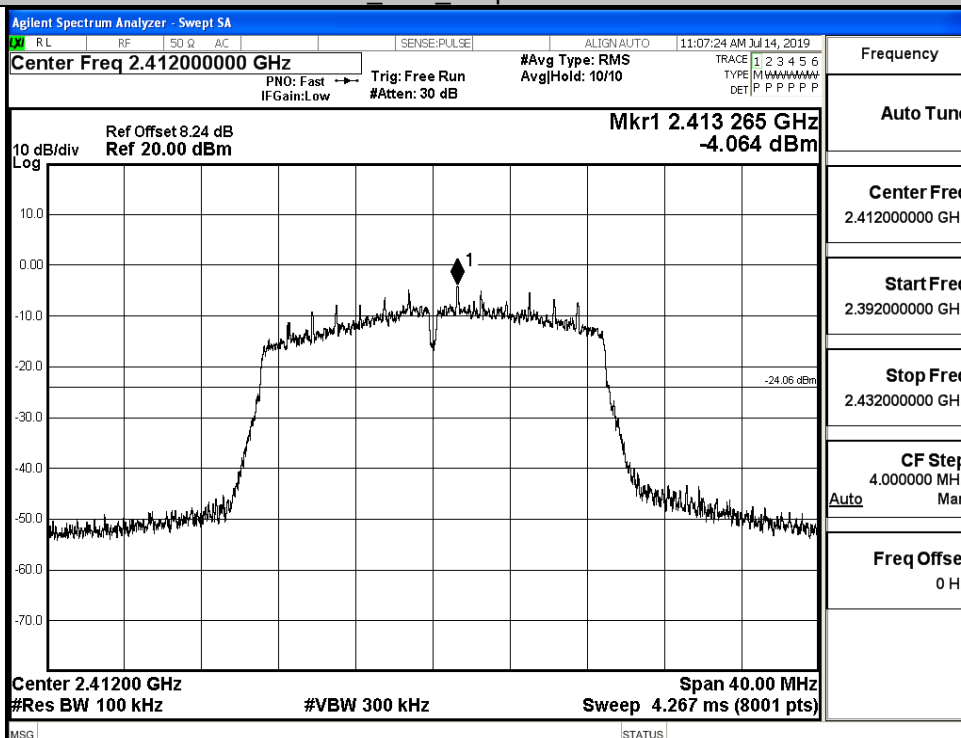


Puw/11G/HCH

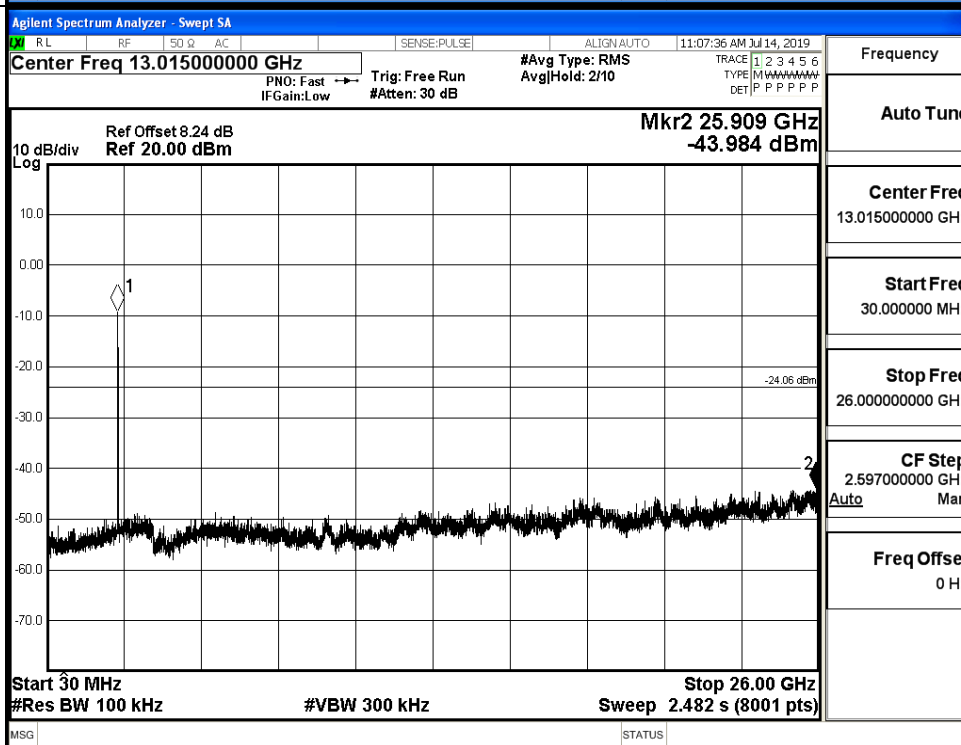


11N20SISO LCH Graphs

Pref/11N20SIS
O/LCH

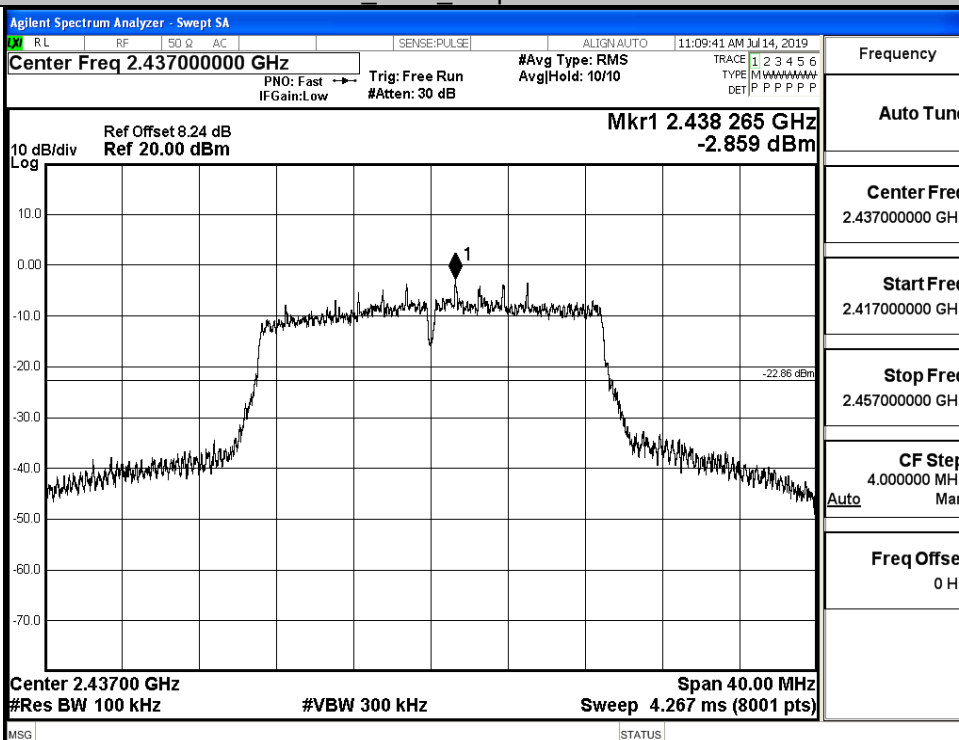


Puw/11N20
SISO/LCH

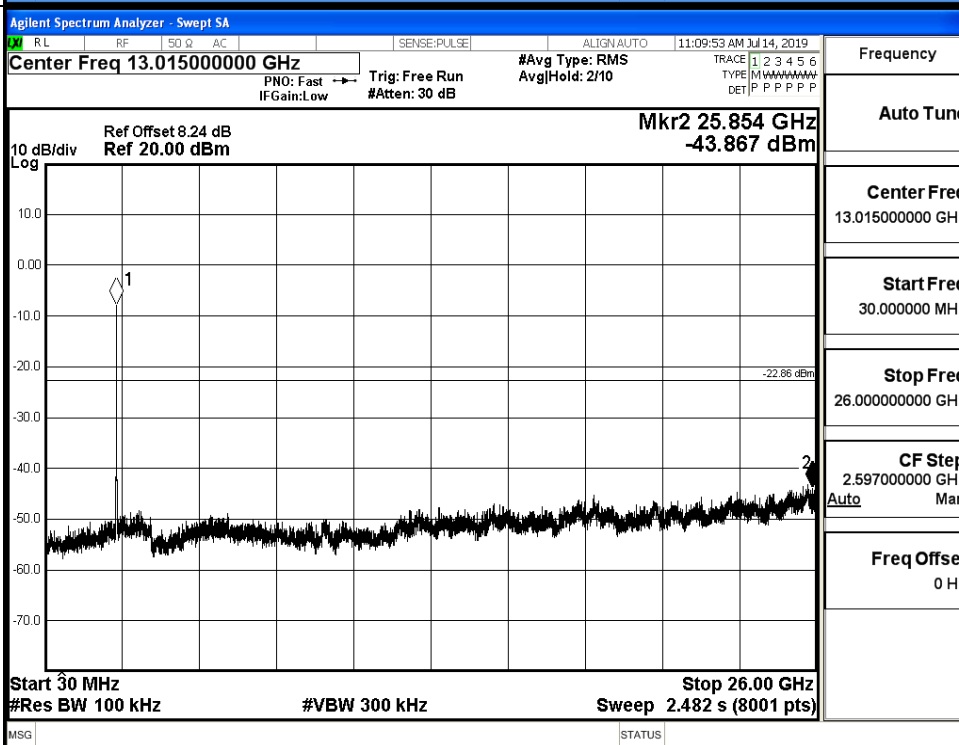


11N20SISO MCH_Graphs

Pref/11N20
SISO/MCH

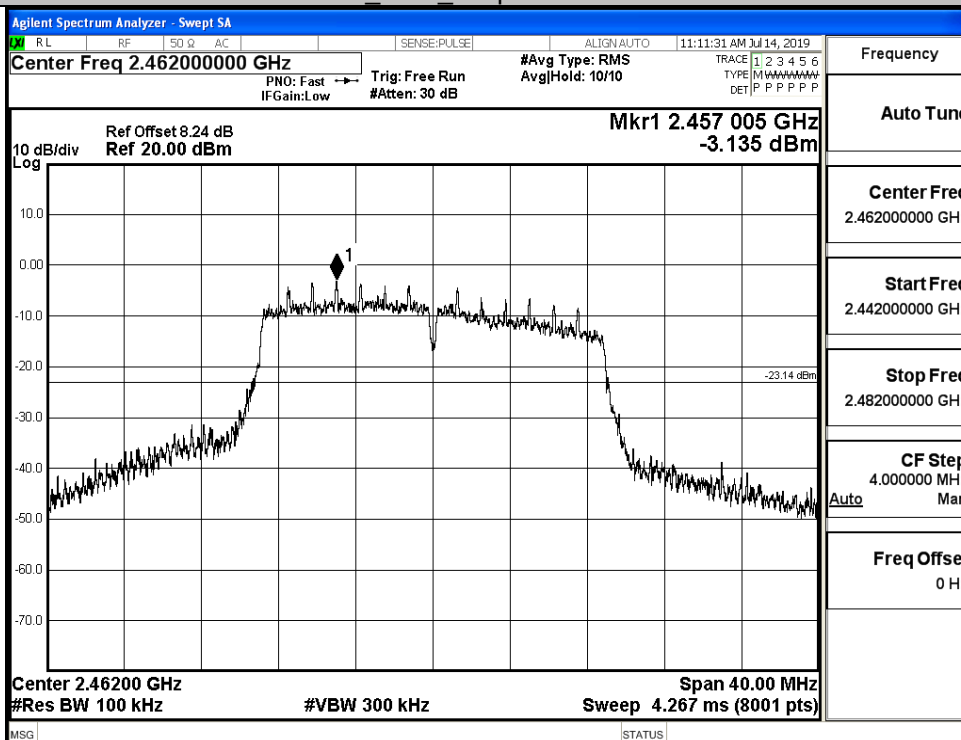


Puw/11N20
SISO/MCH

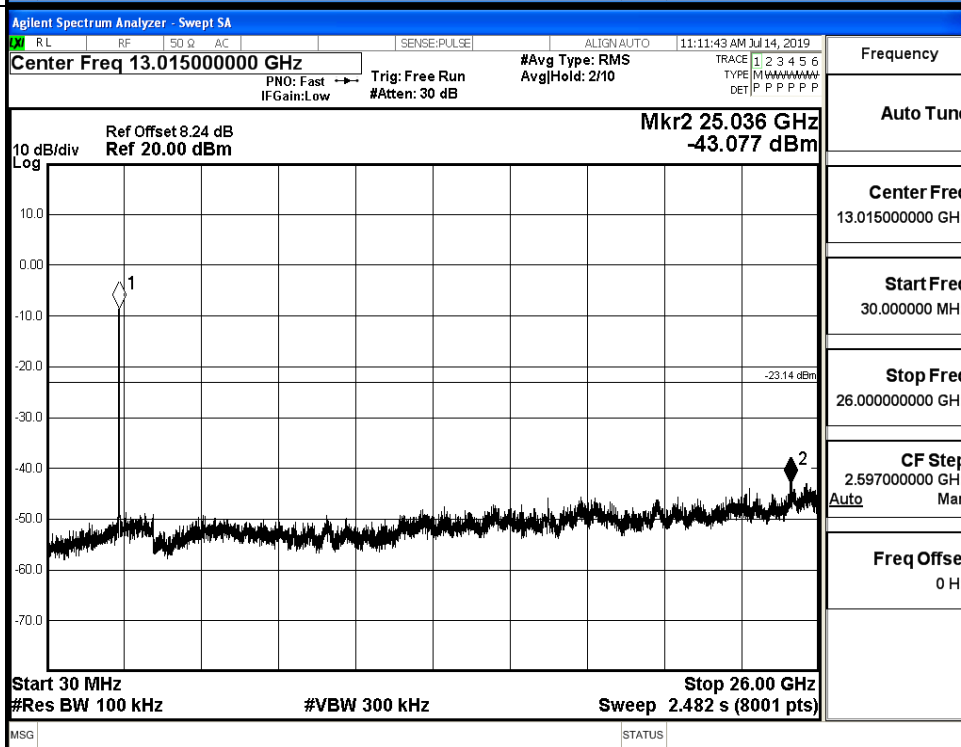


11N20SISO HCH Graphs

Pref/11N20
SISO/HCH

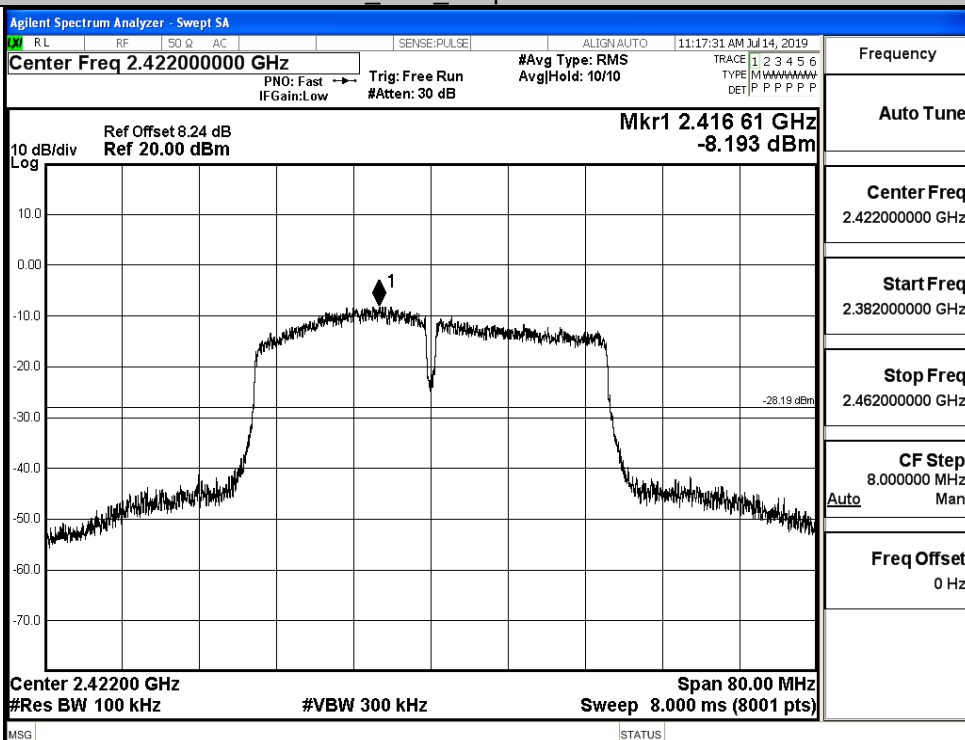


Puw/11N20
SISO/HCH

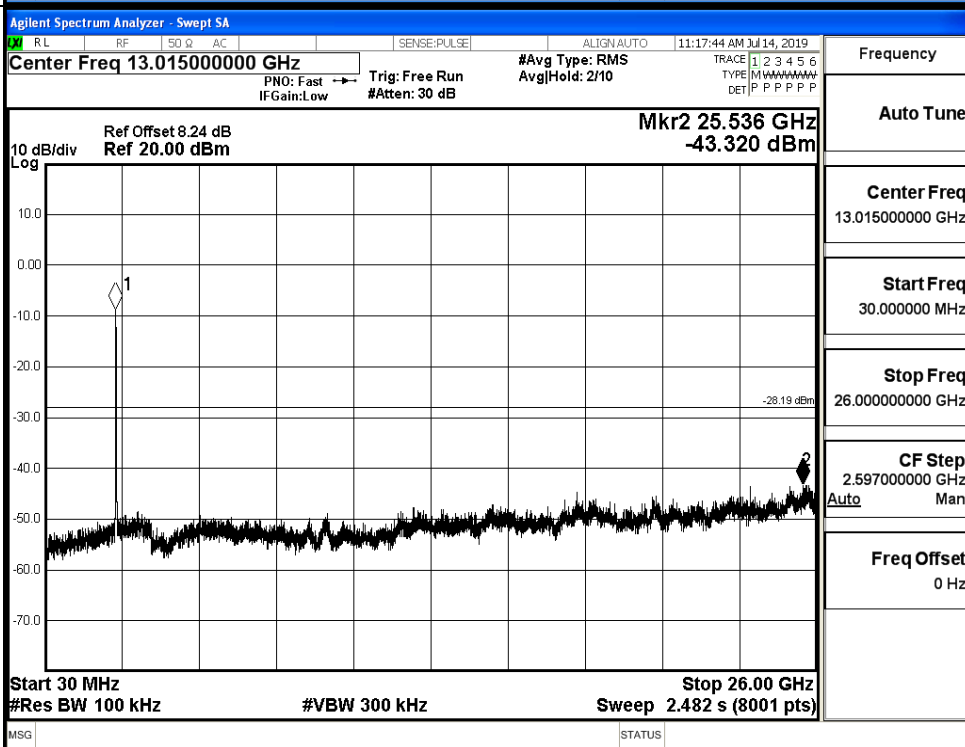


11N40SISO LCH Graphs

Pref/11N40
SISO/LCH

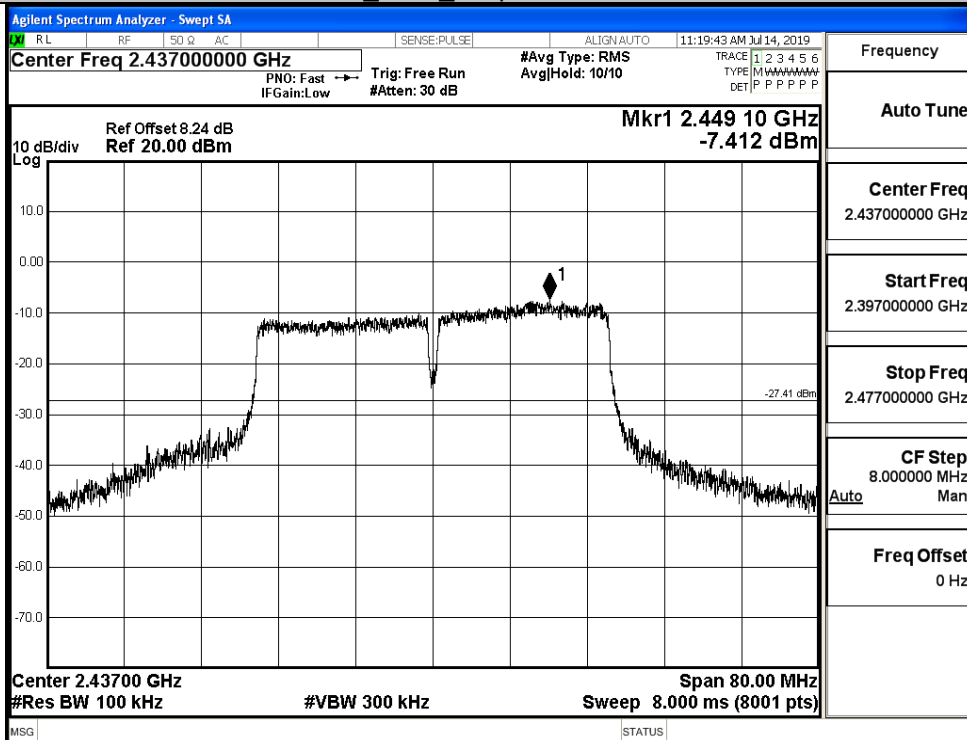


Puw/11N40
SISO/LCH

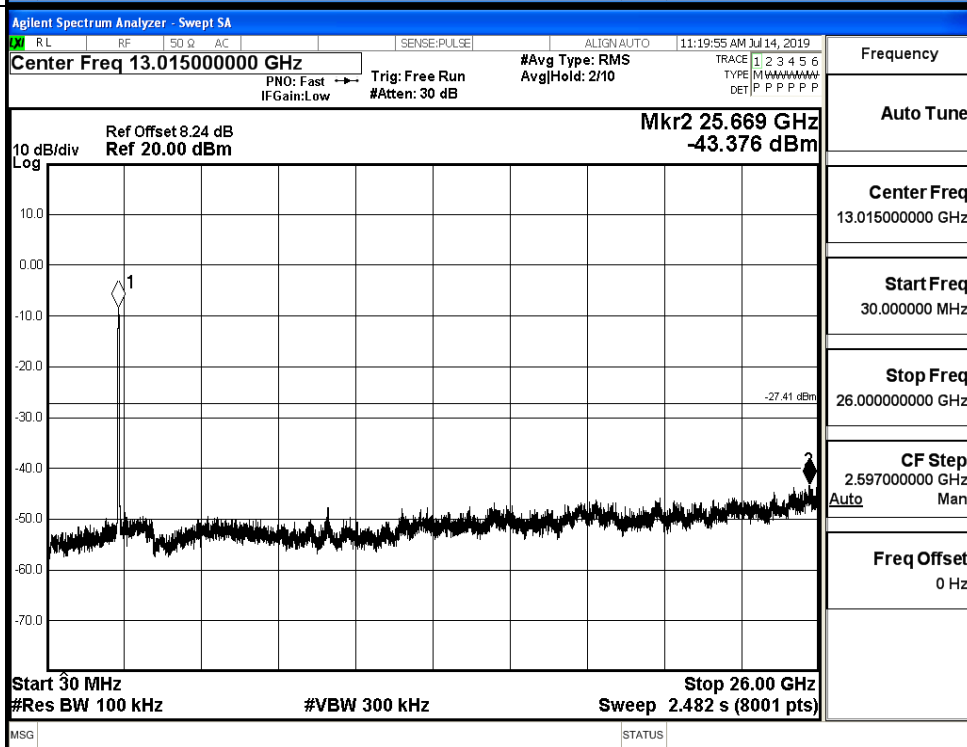


11N40SISO MCH_Graphs

Pref/11N40
SISO/MCH

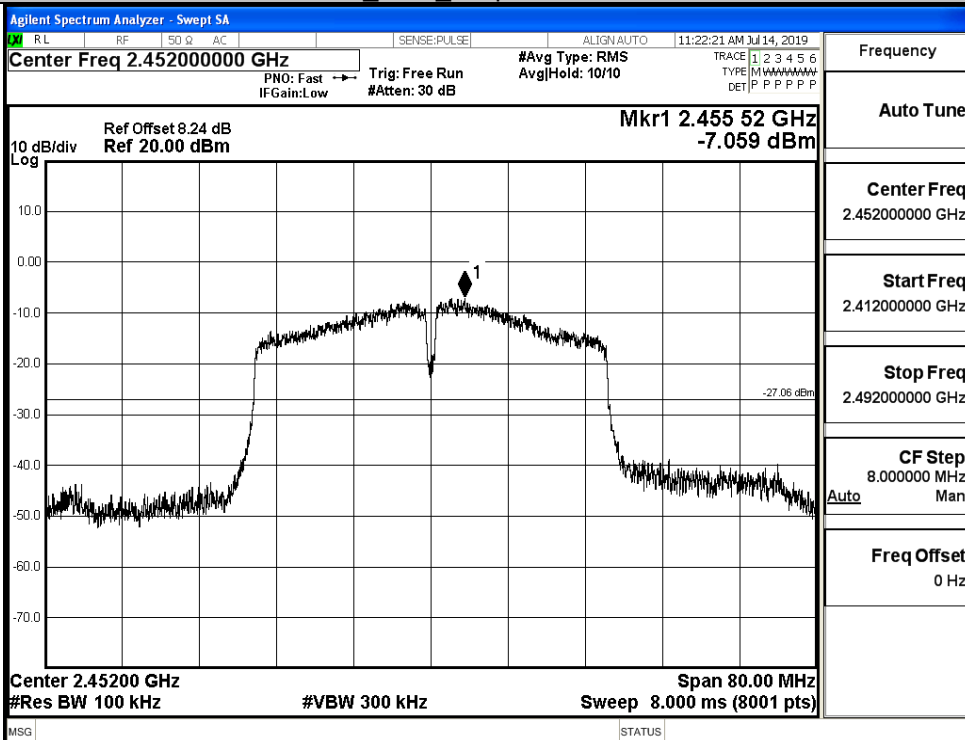


Puw/11N40
SISO/MCH

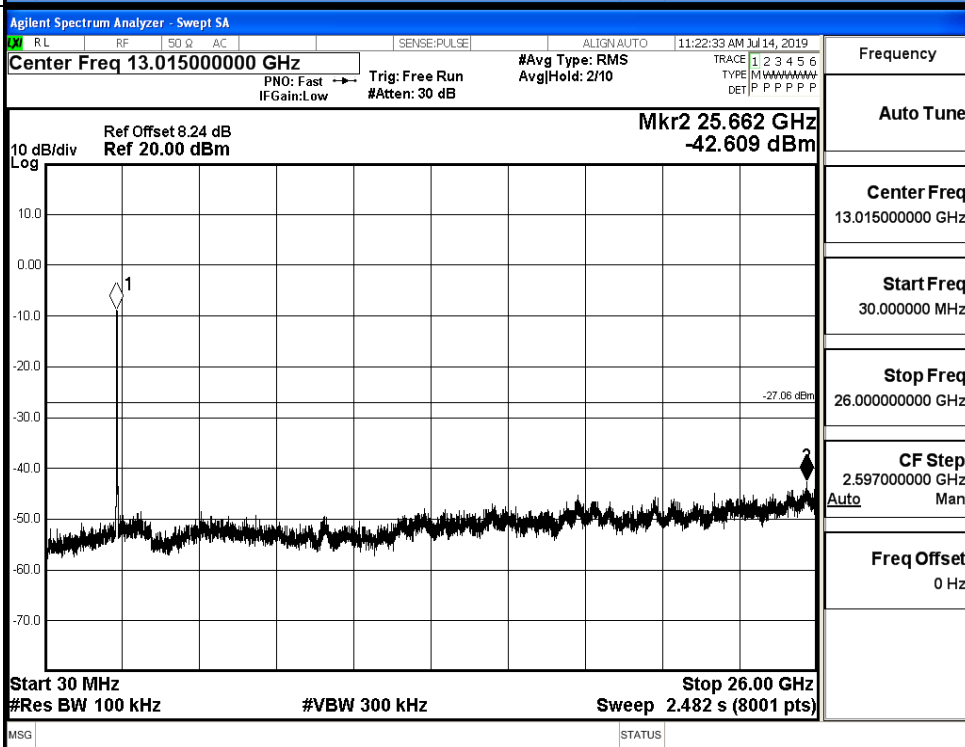


11N40SISO HCH Graphs

Pref/11N40
SISO/HCH



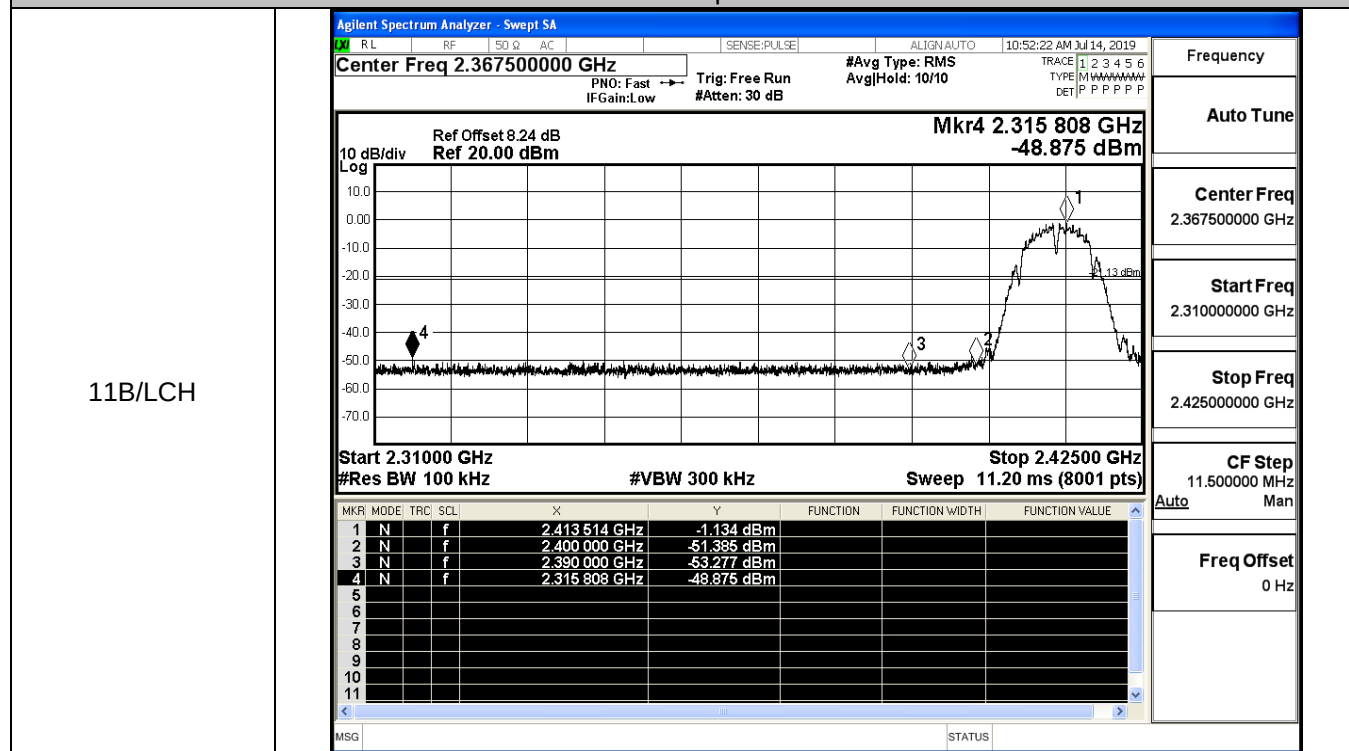
Puw/11N40
SISO/HCH



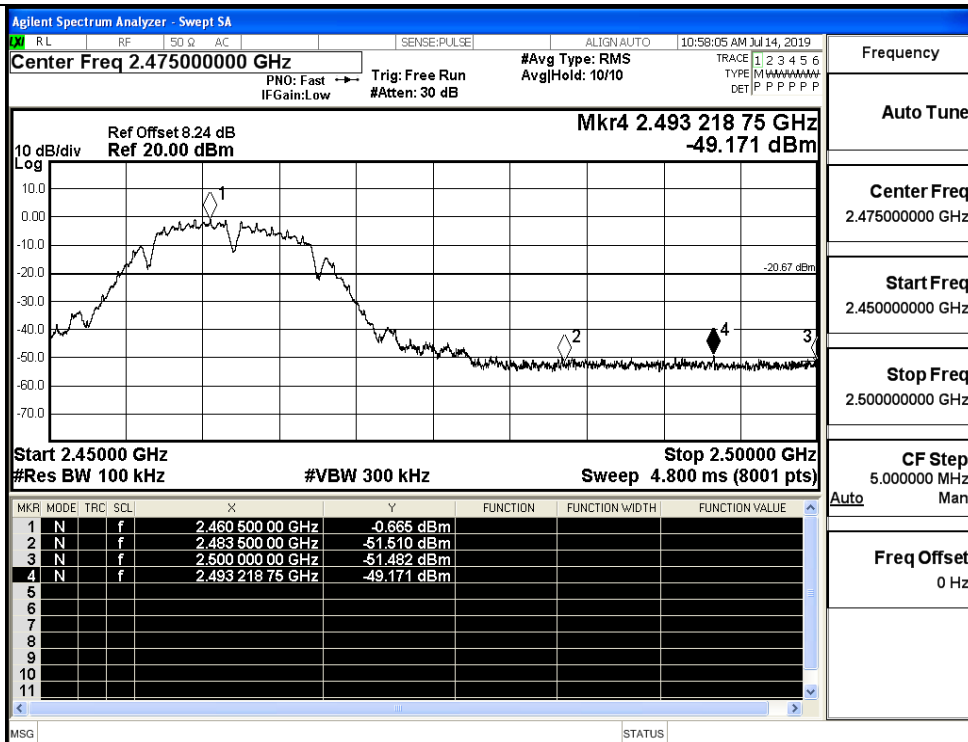
B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-1.134	-48.875	-21.13	PASS
	HCH	-0.665	-49.171	-20.67	PASS
11G	LCH	-4.883	-49.400	-24.88	PASS
	HCH	-3.367	-48.048	-23.37	PASS
11N20SISO	LCH	-3.950	-49.733	-23.95	PASS
	HCH	-3.113	-47.778	-23.11	PASS
11N40SISO	LCH	-8.165	-46.479	-28.17	PASS
	HCH	-7.314	-39.641	-27.31	PASS

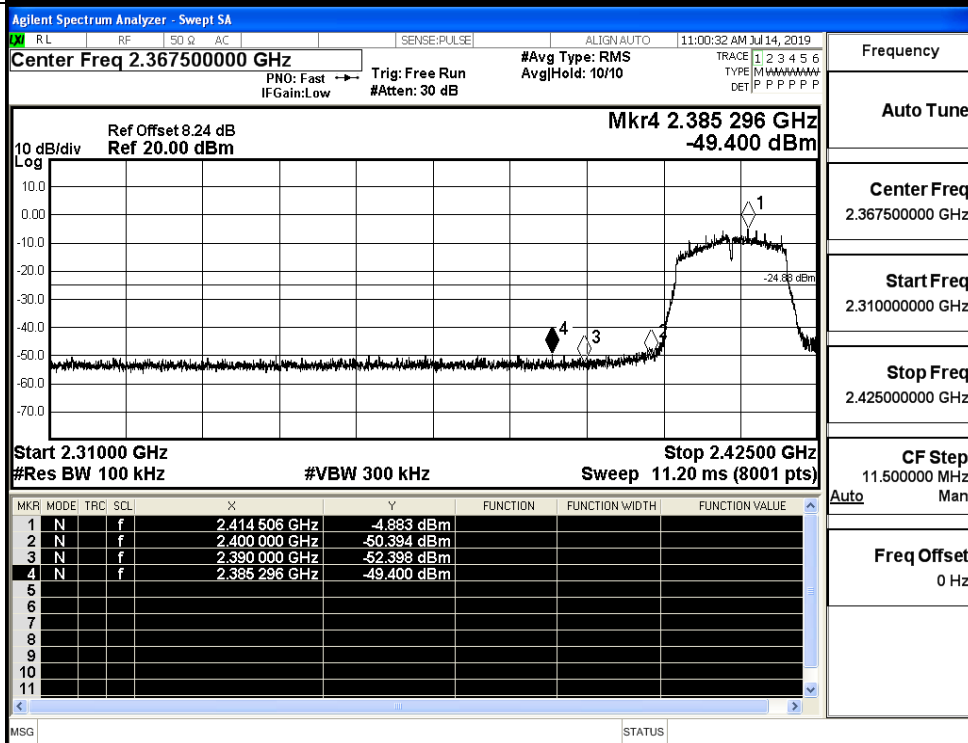
Test Graphs



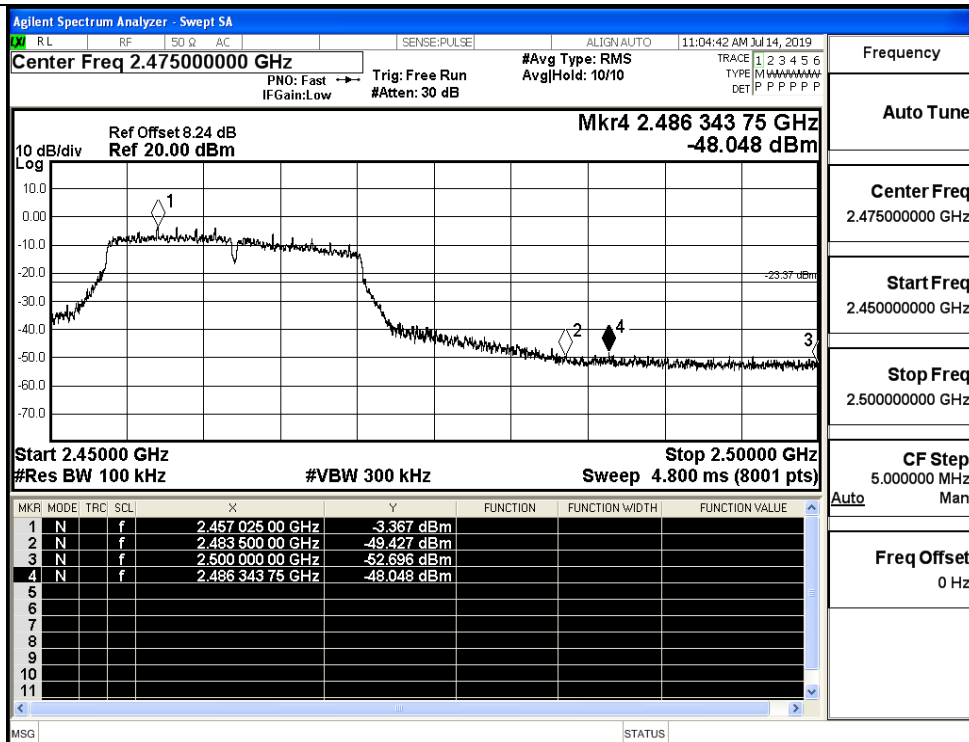
11B/HCH



11G/LCH



11G/HCH



Frequency

Auto Tune

Center Freq
2.475000000 GHz

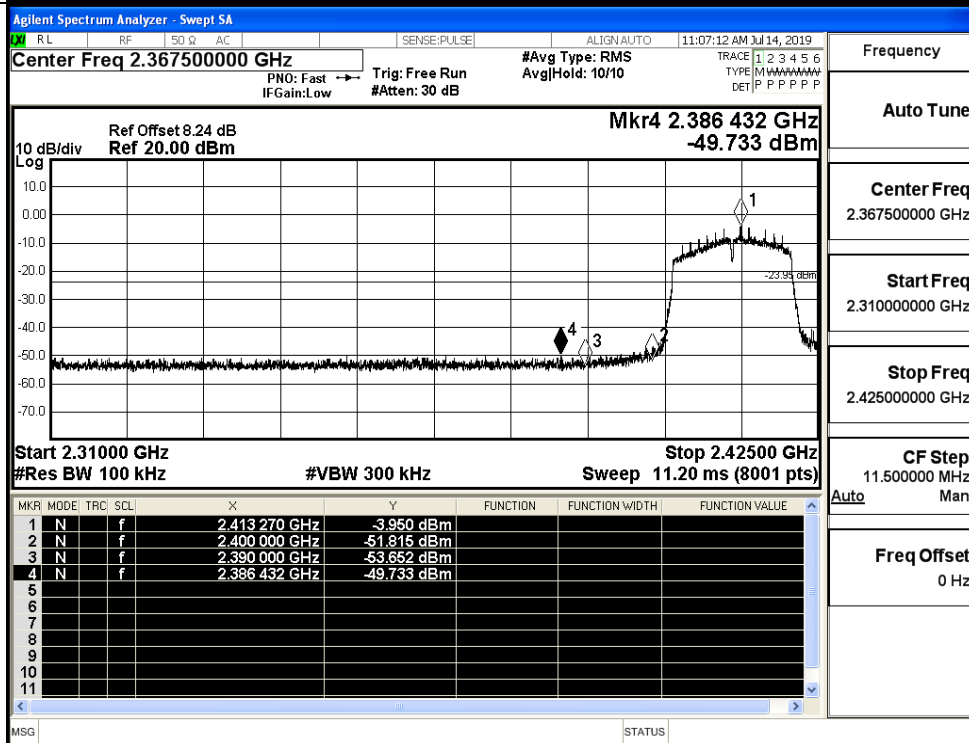
Start Freq
2.450000000 GHz

Stop Freq
2.500000000 GHz

CF Step
5.000000 MHz

Freq Offset
0 Hz

11N20SISO/LCH



Frequency

Auto Tune

Center Freq
2.367500000 GHz

Start Freq
2.310000000 GHz

Stop Freq
2.425000000 GHz

CF Step
11.500000 MHz

Freq Offset
0 Hz

11N20SISO/HCH

Agilent Spectrum Analyzer - Swept SA

RL RF SO Q AC SENSE:PULSE ALIGN: AUTO 11:11:19 AM Jul 14, 2019

Center Freq 2.475000000 GHz

PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB

#Avg Type: RMS Avg|Hold: 10/10

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

10 dB/div Ref Offset 8.24 dB
Log Ref 20.00 dBm

Mkr4 2.484 475 00 GHz
-47.778 dBm

-23.11 dBm

Start 2.45000 GHz Stop 2.50000 GHz
#Res BW 100 kHz #VBW 300 kHz Sweep 4.800 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	2.457 012 50 GHz	-3.113 dBm			
2	N		f	2.483 500 00 GHz	-50.625 dBm			
3	N		f	2.500 000 00 GHz	-51.381 dBm			
4	N		f	2.484 475 00 GHz	-47.778 dBm			
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency
Auto Tune
Center Freq
2.475000000 GHz
Start Freq
2.450000000 GHz
Stop Freq
2.500000000 GHz
CF Step
5.000000 MHz
Auto Man
Freq Offset
0 Hz

11N40SISO/LCH

Agilent Spectrum Analyzer - Swept SA

RL RF SO Q AC SENSE:PULSE ALIGN: AUTO 11:17:20 AM Jul 14, 2019

Center Freq 2.377500000 GHz

PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB

#Avg Type: RMS Avg|Hold: 10/10

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

10 dB/div Ref Offset 8.24 dB
Log Ref 20.00 dBm

Mkr4 2.389 228 GHz
-46.479 dBm

-28.13 dBm

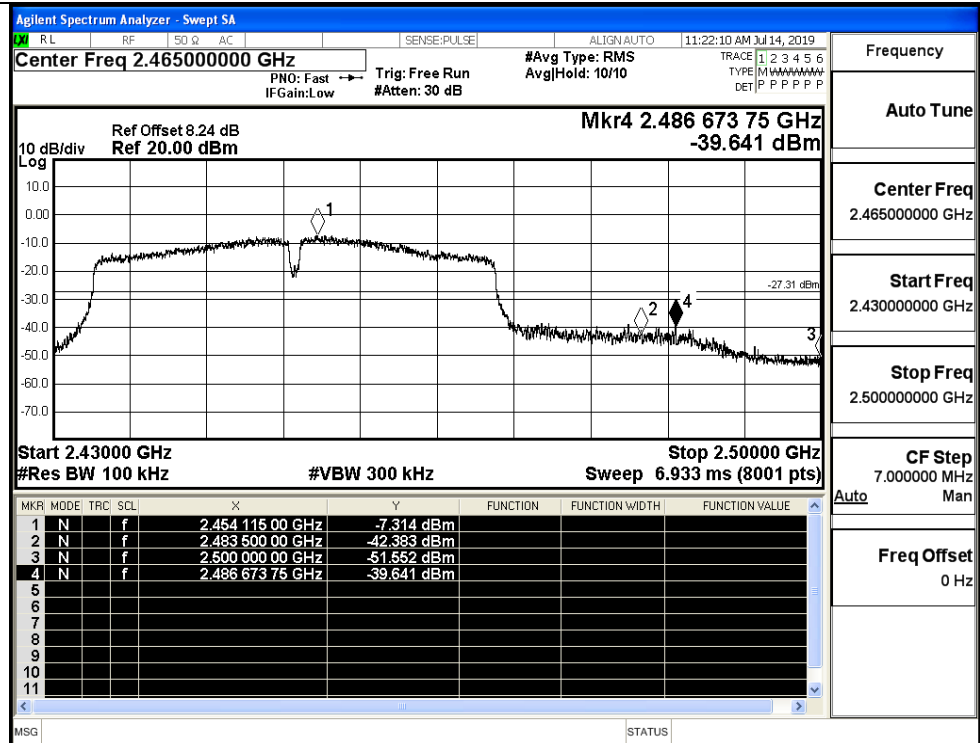
Start 2.31000 GHz Stop 2.44500 GHz
#Res BW 100 kHz #VBW 300 kHz Sweep 13.33 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	2.417 241 GHz	-9.165 dBm			
2	N		f	2.400 000 GHz	-46.624 dBm			
3	N		f	2.390 000 GHz	-49.712 dBm			
4	N		f	2.389 228 GHz	-46.479 dBm			
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency
Auto Tune
Center Freq
2.377500000 GHz
Start Freq
2.310000000 GHz
Stop Freq
2.445000000 GHz
CF Step
13.500000 MHz
Auto Man
Freq Offset
0 Hz

11N40SISO/HCH

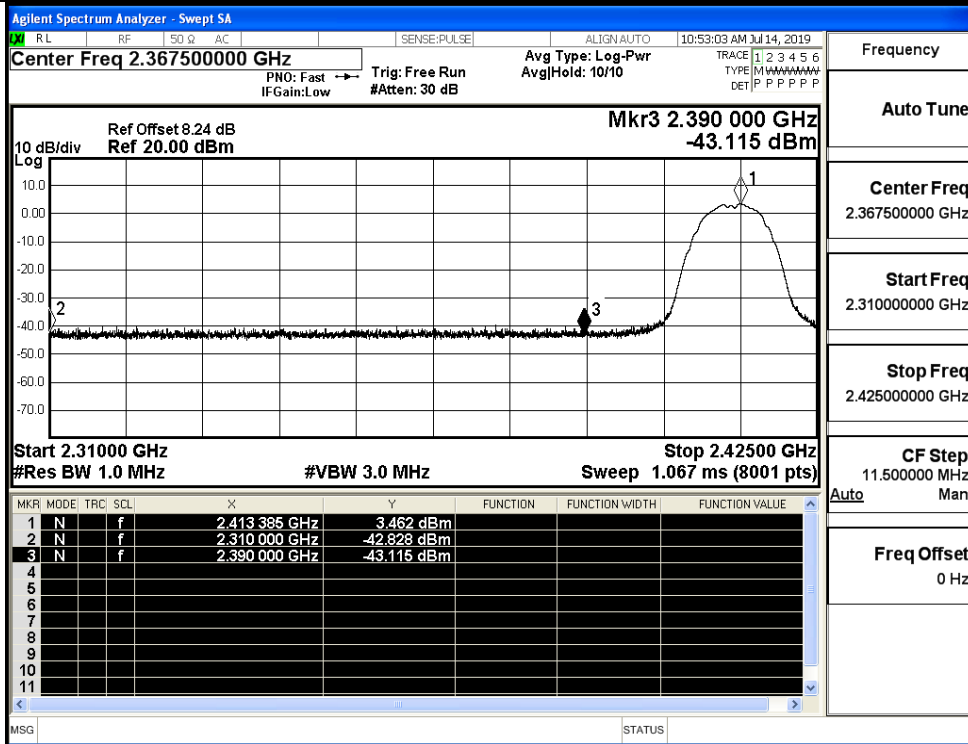


B.7 Restrict-band band-edge measurements

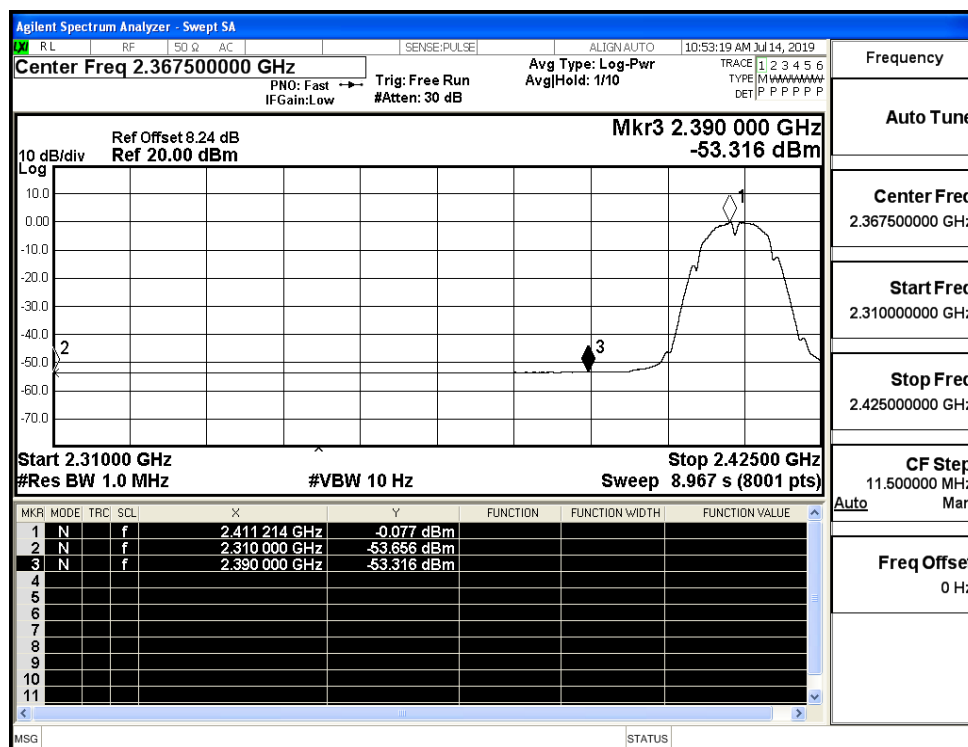
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-42.83	2.5	0	54.93	PEAK	74	PASS
	2412	Ant1	2310.0	-53.66	2.5	0	44.1	AV	54	PASS
	2412	Ant1	2390.0	-43.12	2.5	0	54.64	PEAK	74	PASS
	2412	Ant1	2390.0	-53.32	2.5	0	44.44	AV	54	PASS
	2462	Ant1	2483.5	-41.39	2.5	0	56.37	PEAK	74	PASS
	2462	Ant1	2483.5	-52.82	2.5	0	44.94	AV	54	PASS
	2462	Ant1	2500.0	-42.57	2.5	0	55.19	PEAK	74	PASS
	2462	Ant1	2500.0	-53.00	2.5	0	44.76	AV	54	PASS
11G	2412	Ant1	2310.0	-43.75	2.5	0	54.01	PEAK	74	PASS
	2412	Ant1	2310.0	-53.66	2.5	0	44.1	AV	54	PASS
	2412	Ant1	2390.0	-42.77	2.5	0	54.99	PEAK	74	PASS
	2412	Ant1	2390.0	-53.15	2.5	0	44.61	AV	54	PASS
	2462	Ant1	2483.5	-40.18	2.5	0	57.58	PEAK	74	PASS
	2462	Ant1	2483.5	-51.22	2.5	0	46.54	AV	54	PASS
	2462	Ant1	2500.0	-41.40	2.5	0	56.36	PEAK	74	PASS
	2462	Ant1	2500.0	-52.90	2.5	0	44.86	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-43.69	2.5	0	54.07	PEAK	74	PASS
	2412	Ant1	2310.0	-53.68	2.5	0	44.08	AV	54	PASS
	2412	Ant1	2390.0	-42.13	2.5	0	55.63	PEAK	74	PASS
	2412	Ant1	2390.0	-53.09	2.5	0	44.67	AV	54	PASS
	2462	Ant1	2483.5	-37.16	2.5	0	60.6	PEAK	74	PASS
	2462	Ant1	2483.5	-50.47	2.5	0	47.29	AV	54	PASS
	2462	Ant1	2500.0	-43.03	2.5	0	54.73	PEAK	74	PASS
	2462	Ant1	2500.0	-52.92	2.5	0	44.84	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-42.35	2.5	0	55.41	PEAK	74	PASS
	2422	Ant1	2310.0	-53.68	2.5	0	44.08	AV	54	PASS

	2422	Ant1	2390.0	-37.30	2.5	0	60.46	PEAK	74	PASS
	2422	Ant1	2390.0	-48.76	2.5	0	49	AV	54	PASS
	2452	Ant1	2483.5	-29.52	2.5	0	68.24	PEAK	74	PASS
	2452	Ant1	2483.5	-44.12	2.5	0	53.64	AV	54	PASS
	2452	Ant1	2500.0	-42.35	2.5	0	55.41	PEAK	74	PASS
	2452	Ant1	2500.0	-52.41	2.5	0	45.35	AV	54	PASS

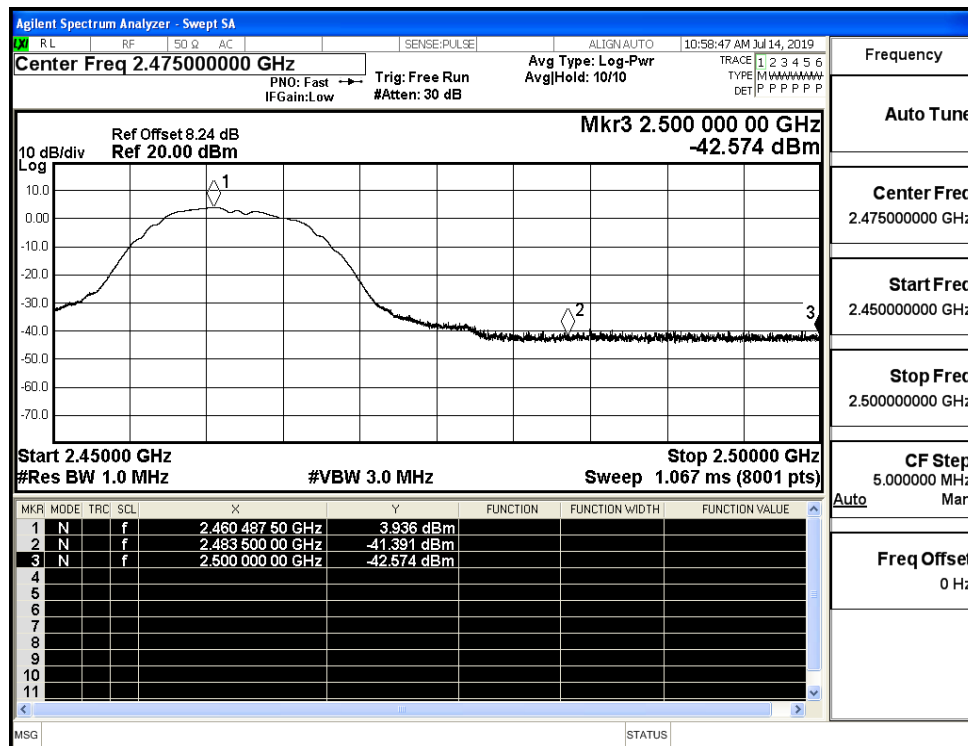
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



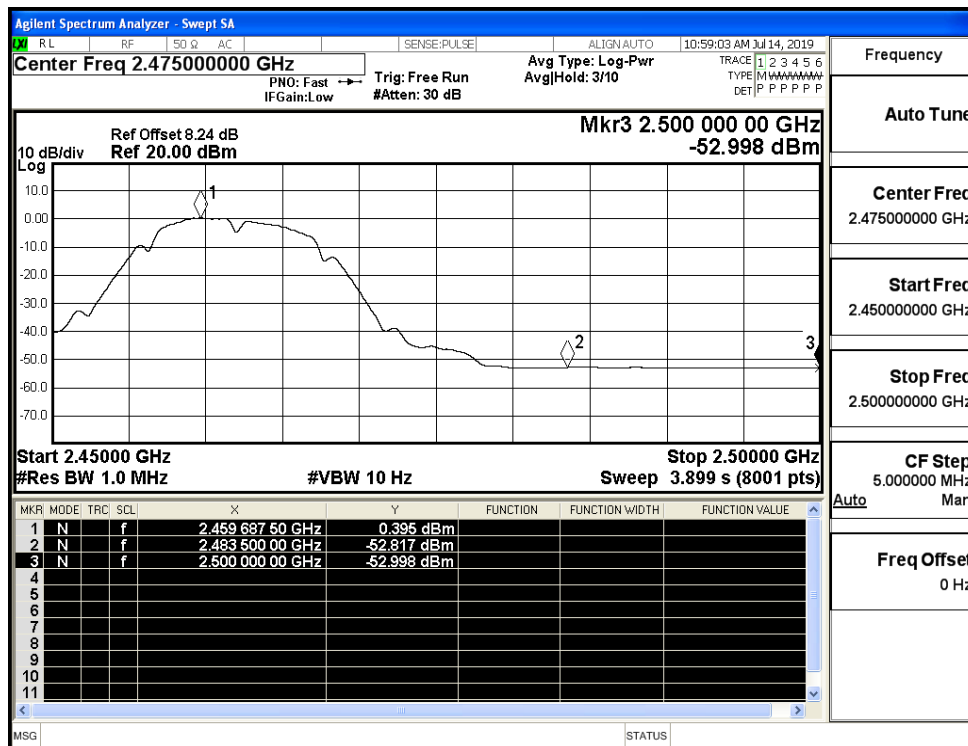
Restrict-band band-edge measurements_11B_2412_Ant1_AV



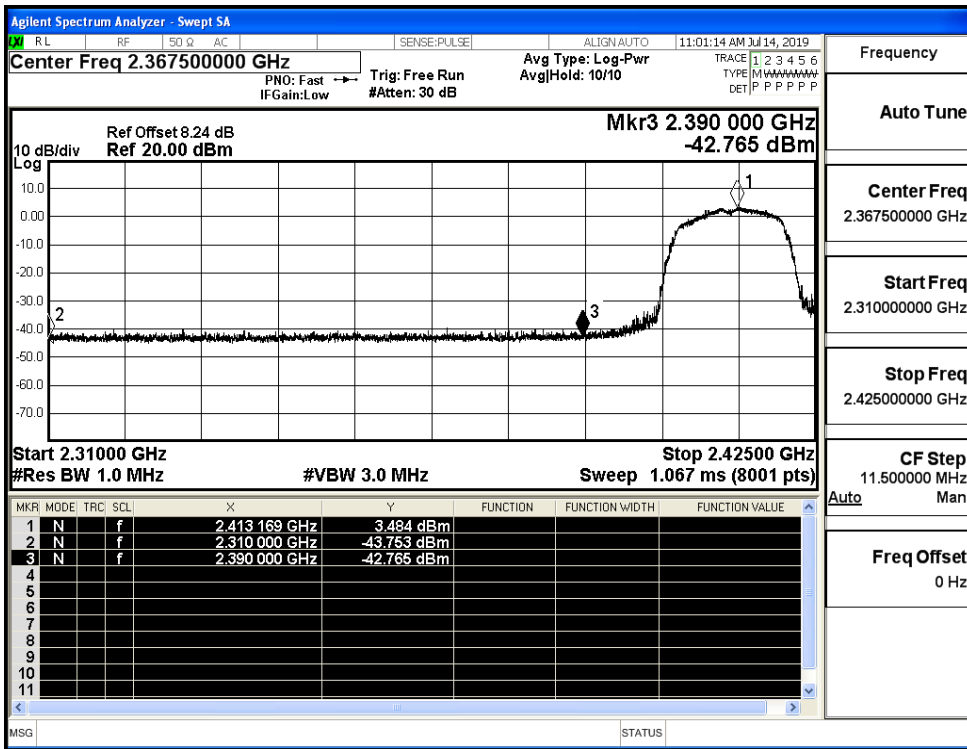
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



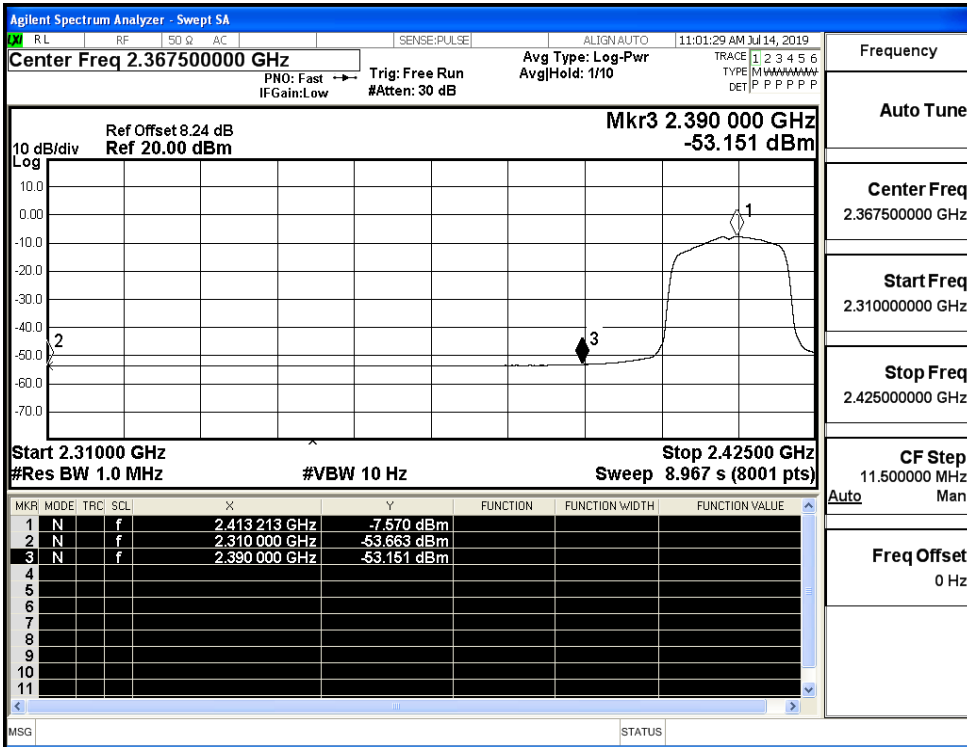
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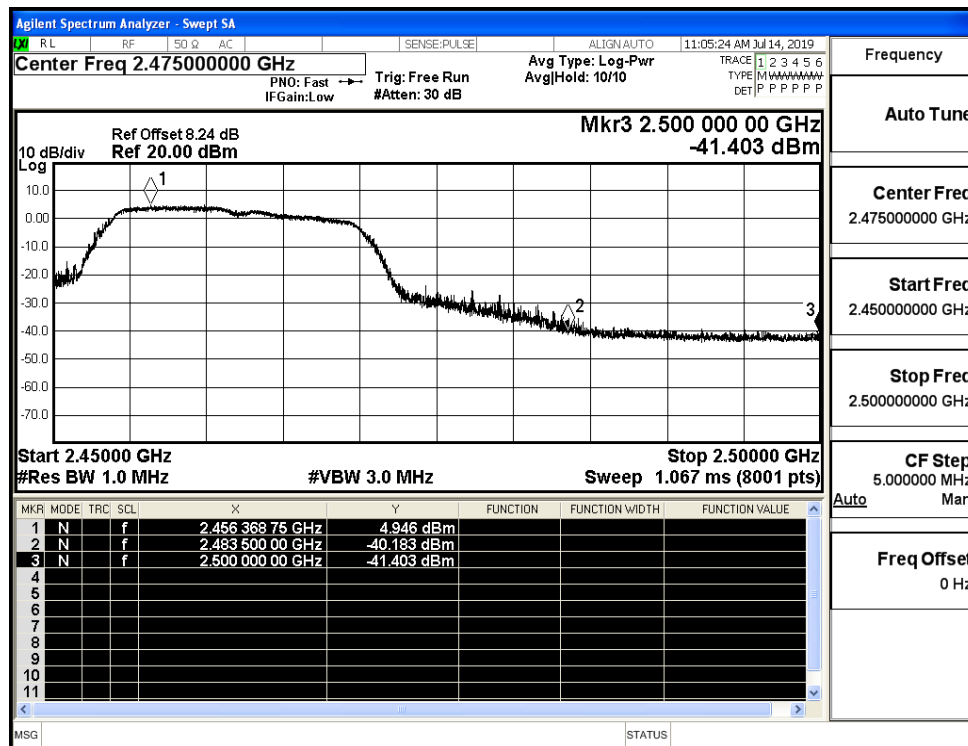
Restrict-band band-edge measurements 11G 2412 Ant1 PEAK



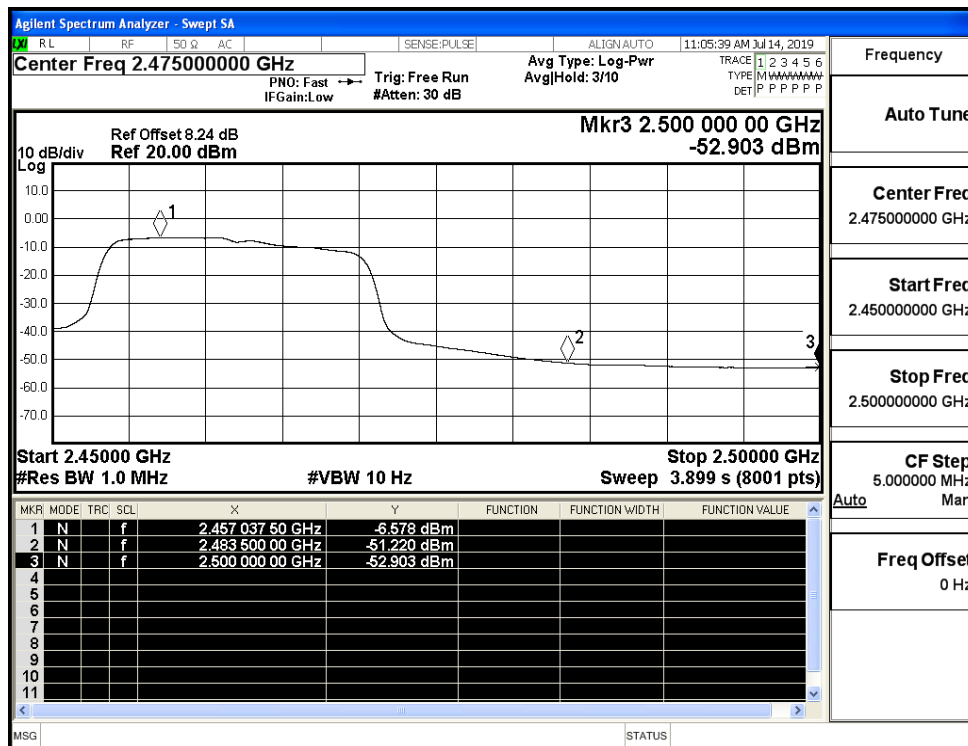
Restrict-band band-edge measurements 11G 2412 Ant1 AV



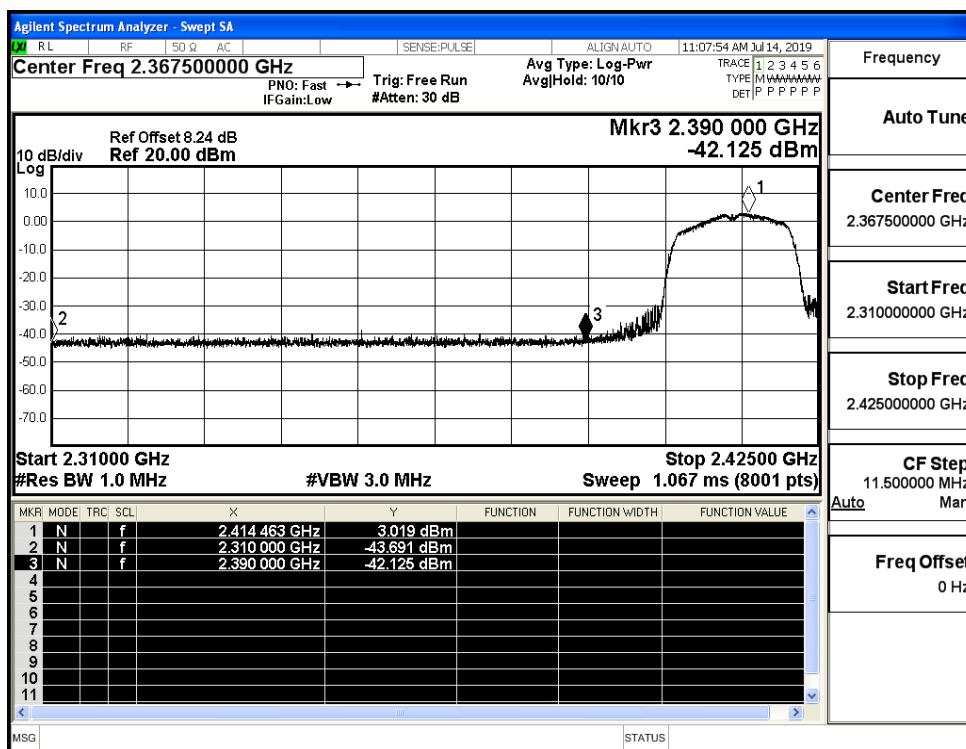
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



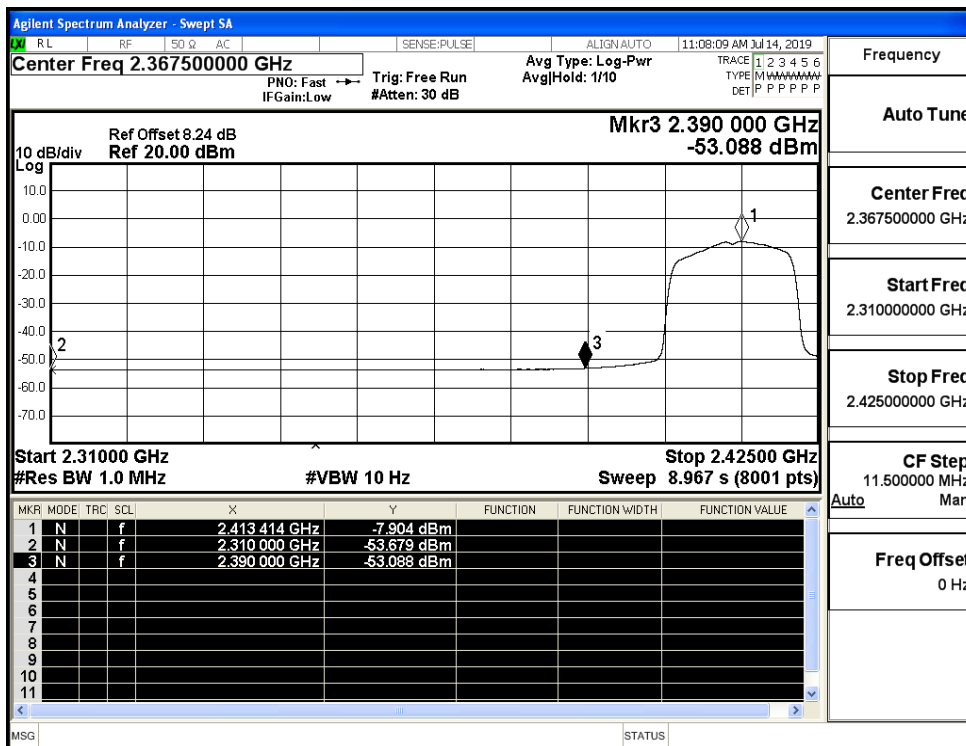
Restrict-band band-edge measurements_11G_2462_Ant1_AV



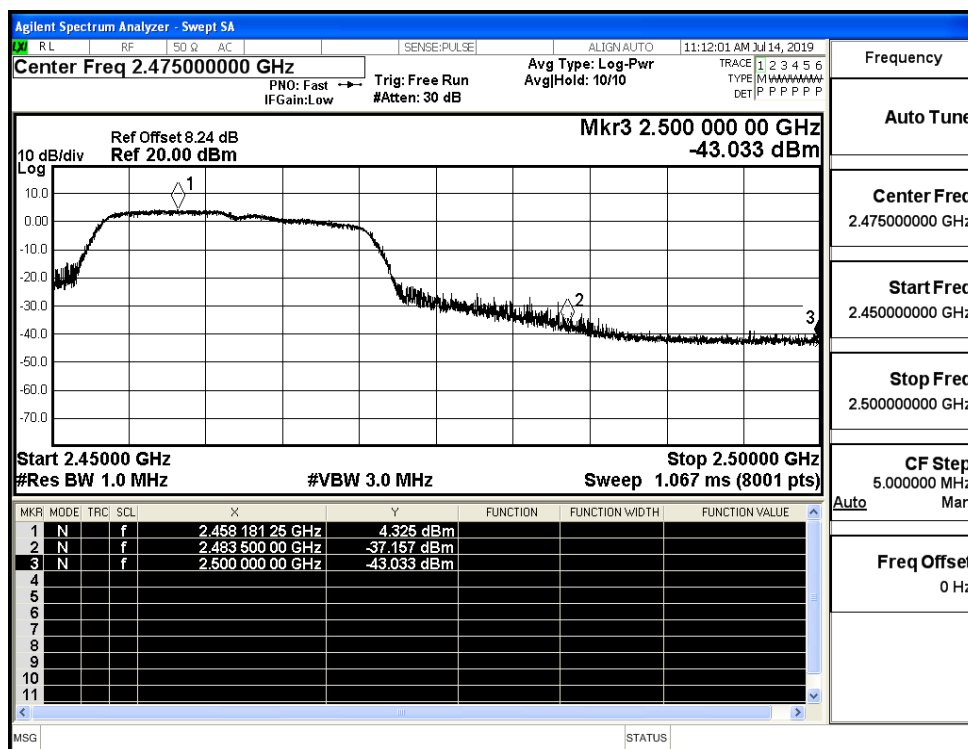
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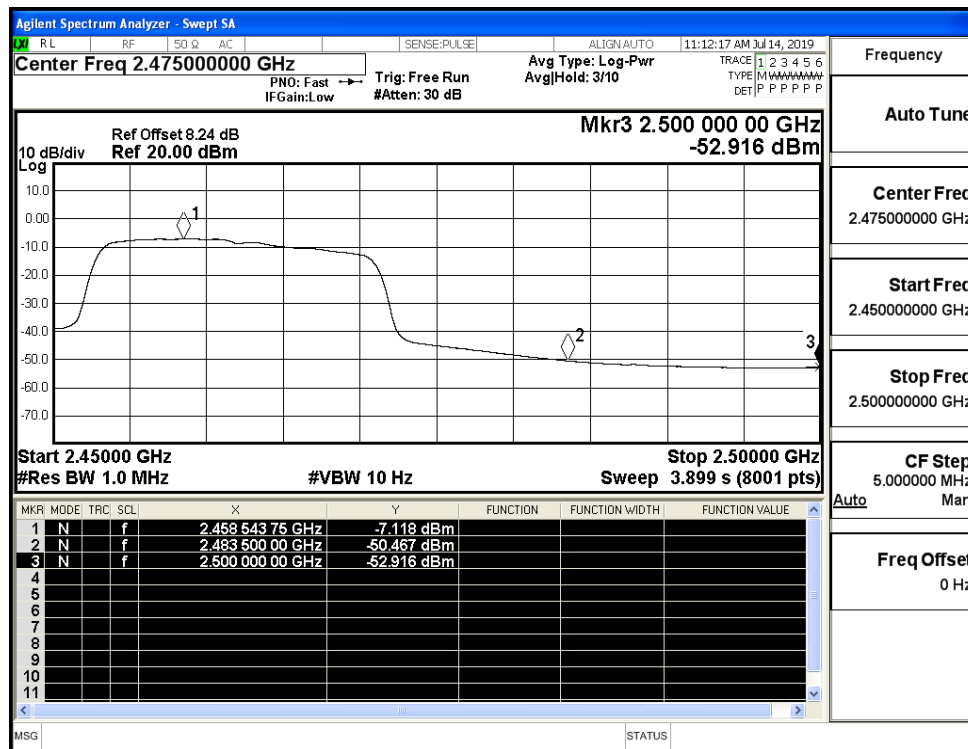
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV



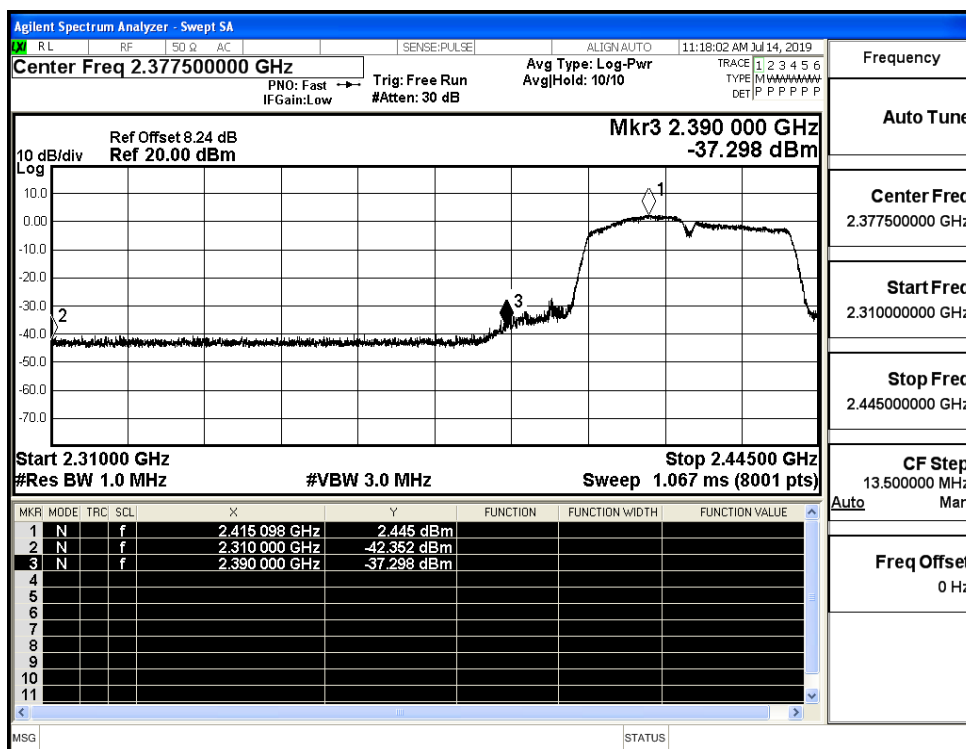
Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



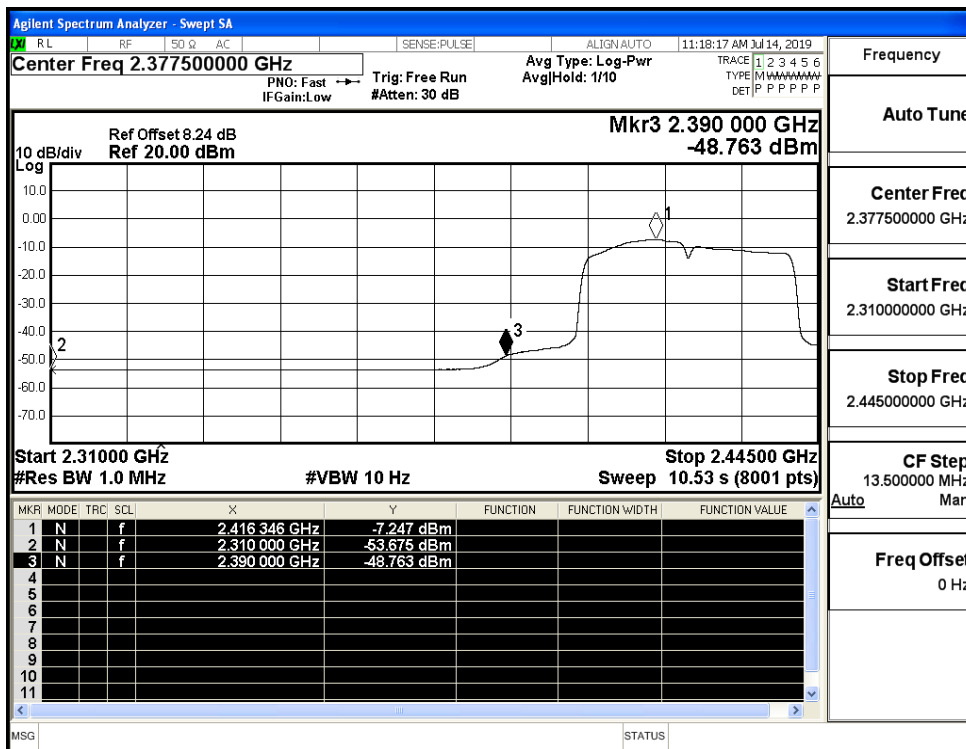
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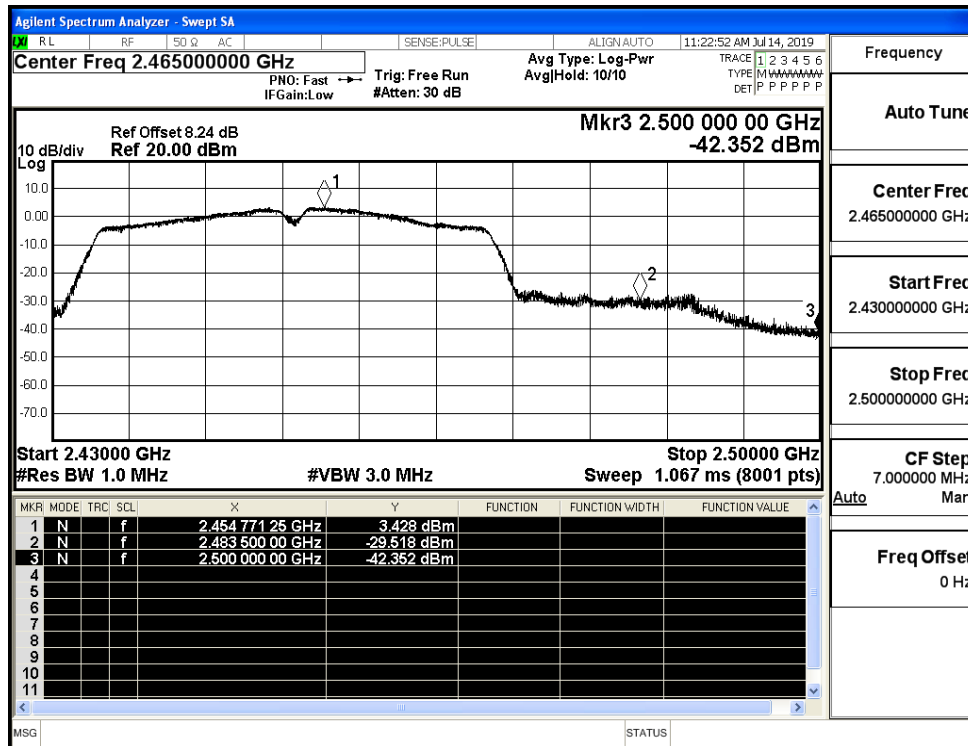
Restrict-band band-edge measurements_11N40SISO_2422_Ant1_PEAK



Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV

