

Appendix A

RF Test Data for 2.4G (Conducted Measurement)

Product Name: Digital Video Baby Monitor

Trade Mark: N/A

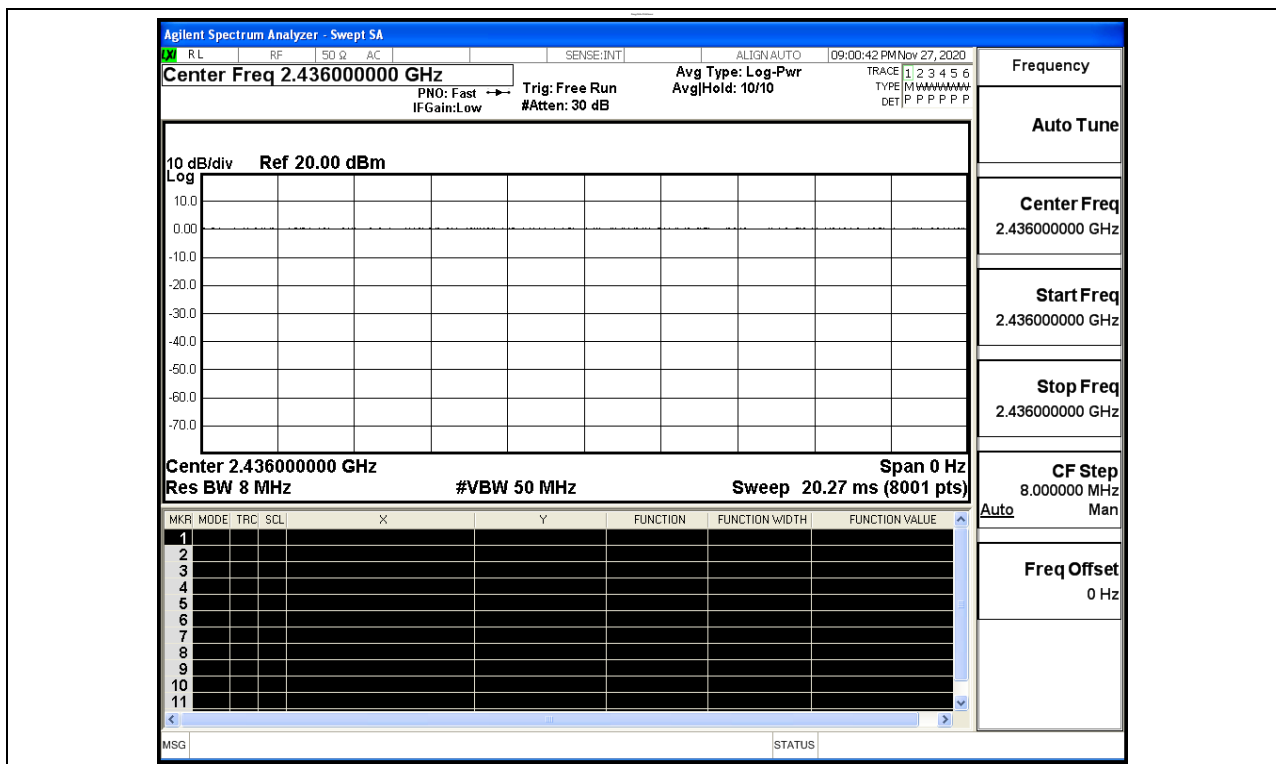
Test Model: VB601

Environmental Conditions

Temperature:	22.7° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
2.4G	2436	Ant1	100	PASS



A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
2.4G	2415	8.57	30	PASS
2.4G	2436	8.30	30	PASS
2.4G	2460	6.99	30	PASS

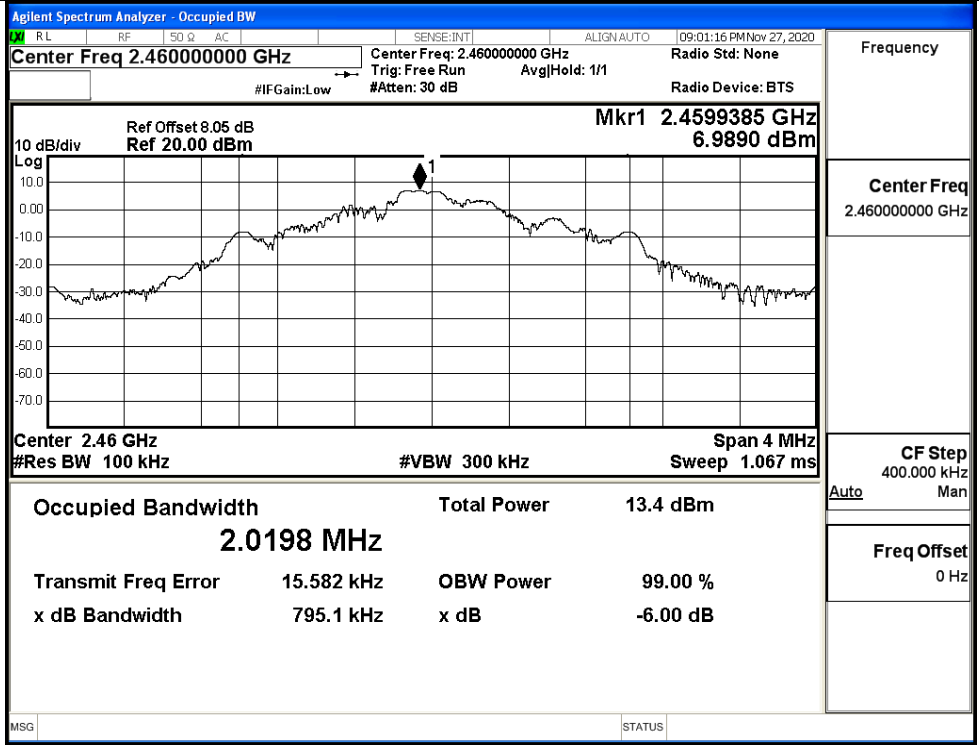
Test Graphs									
2415	<div style="border: 1px solid black; padding: 5px;"> <p style="font-size: small; margin: 0;">Agilent Spectrum Analyzer - Swept SA</p> <p style="font-size: x-small; margin: 0;">RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 08:53:48 PM Nov 27, 2020</p> <p style="font-size: small; margin: 0;">Center Freq 2.41500000 GHz Avg Type: Log-Pwr TRACE 1 2 3 4 5 6</p> <p style="font-size: x-small; margin: 0;">PNO: Fast Trig: Free Run AvgHold: 10/10 TYPE M W W W W W W W W W</p> <p style="font-size: x-small; margin: 0;">IFGain:Low #Atten: 30 dB DET P P P P P P P</p> <div style="border: 1px solid black; padding: 2px; margin: 5px 0;"> <p style="font-size: x-small; margin: 0;">Ref Offset 8.05 dB Mkr1 2.414 928 125 GHz</p> <p style="font-size: x-small; margin: 0;">Ref 20.00 dBm 8.572 dBm</p> </div> <p style="font-size: x-small; margin: 0;">Center 2.415000 GHz Span 5.000 MHz</p> <p style="font-size: x-small; margin: 0;">#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.067 ms (8001 pts)</p> <p style="font-size: x-small; margin: 0;">MSG STATUS</p> </div> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr><td>Frequency</td></tr> <tr><td>Auto Tune</td></tr> <tr><td>Center Freq 2.415000000 GHz</td></tr> <tr><td>Start Freq 2.412500000 GHz</td></tr> <tr><td>Stop Freq 2.417500000 GHz</td></tr> <tr><td>CF Step 500.000 kHz</td></tr> <tr><td>Auto Man</td></tr> <tr><td>Freq Offset 0 Hz</td></tr> </table>	Frequency	Auto Tune	Center Freq 2.415000000 GHz	Start Freq 2.412500000 GHz	Stop Freq 2.417500000 GHz	CF Step 500.000 kHz	Auto Man	Freq Offset 0 Hz
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2436	<div style="border: 1px solid black; padding: 5px;"> <p style="font-size: small; margin: 0;">Agilent Spectrum Analyzer - Swept SA</p> <p style="font-size: x-small; margin: 0;">RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 08:57:11 PM Nov 27, 2020</p> <p style="font-size: small; margin: 0;">Center Freq 2.43600000 GHz Avg Type: Log-Pwr TRACE 1 2 3 4 5 6</p> <p style="font-size: x-small; margin: 0;">PNO: Fast Trig: Free Run AvgHold: 10/10 TYPE M W W W W W W W W W</p> <p style="font-size: x-small; margin: 0;">IFGain:Low #Atten: 30 dB DET P P P P P P P</p> <div style="border: 1px solid black; padding: 2px; margin: 5px 0;"> <p style="font-size: x-small; margin: 0;">Ref Offset 8.05 dB Mkr1 2.435 940 625 GHz</p> <p style="font-size: x-small; margin: 0;">Ref 20.00 dBm 8.300 dBm</p> </div> <p style="font-size: x-small; margin: 0;">Center 2.436000 GHz Span 5.000 MHz</p> <p style="font-size: x-small; margin: 0;">#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.067 ms (8001 pts)</p> <p style="font-size: x-small; margin: 0;">MSG STATUS</p> </div> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr><td>Frequency</td></tr> <tr><td>Auto Tune</td></tr> <tr><td>Center Freq 2.436000000 GHz</td></tr> <tr><td>Start Freq 2.433500000 GHz</td></tr> <tr><td>Stop Freq 2.438500000 GHz</td></tr> <tr><td>CF Step 500.000 kHz</td></tr> <tr><td>Auto Man</td></tr> <tr><td>Freq Offset 0 Hz</td></tr> </table>	Frequency	Auto Tune	Center Freq 2.436000000 GHz	Start Freq 2.433500000 GHz	Stop Freq 2.438500000 GHz	CF Step 500.000 kHz	Auto Man	Freq Offset 0 Hz
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Stop Freq 2.438500000 GHz									
CF Step 500.000 kHz									
Auto Man									
Freq Offset 0 Hz									

A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
2.4G	2415	0.891	≥0.5	PASS
2.4G	2436	0.825	≥0.5	PASS
2.4G	2460	0.795	≥0.5	PASS

Test Graphs																			
2415	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;">Agilent Spectrum Analyzer - Occupied BW</p> <p style="font-size: small; margin: 0;">RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 08:53:37 PM Nov 27, 2020</p> <p style="margin: 0;">Center Freq 2.415000000 GHz Center Freq: 2.415000000 GHz Radio Std: None Trig: Free Run AvgHld: 1/1 #IFGain:Low #Atten: 30 dB Radio Device: BTS</p> <div style="border: 1px solid black; padding: 2px;"> <p style="text-align: right; margin: 0;">Mkr1 2.4149255 GHz 8.5878 dBm</p> </div> <p style="margin: 0;">Center 2.415 GHz Span 4 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.067 ms</p> <table style="width: 100%; border-collapse: collapse; font-size: small;"> <tr> <td style="width: 33%;">Occupied Bandwidth</td> <td style="width: 33%;">Total Power</td> <td style="width: 33%;">15.8 dBm</td> </tr> <tr> <td style="text-align: center;">2.0232 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>41.636 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>891.4 kHz</td> <td>x dB</td> </tr> <tr> <td></td> <td></td> <td>99.00 %</td> </tr> <tr> <td></td> <td></td> <td>-6.00 dB</td> </tr> </table> <p style="font-size: x-small; margin: 0;">MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	15.8 dBm	2.0232 MHz			Transmit Freq Error	41.636 kHz	OBW Power	x dB Bandwidth	891.4 kHz	x dB			99.00 %			-6.00 dB
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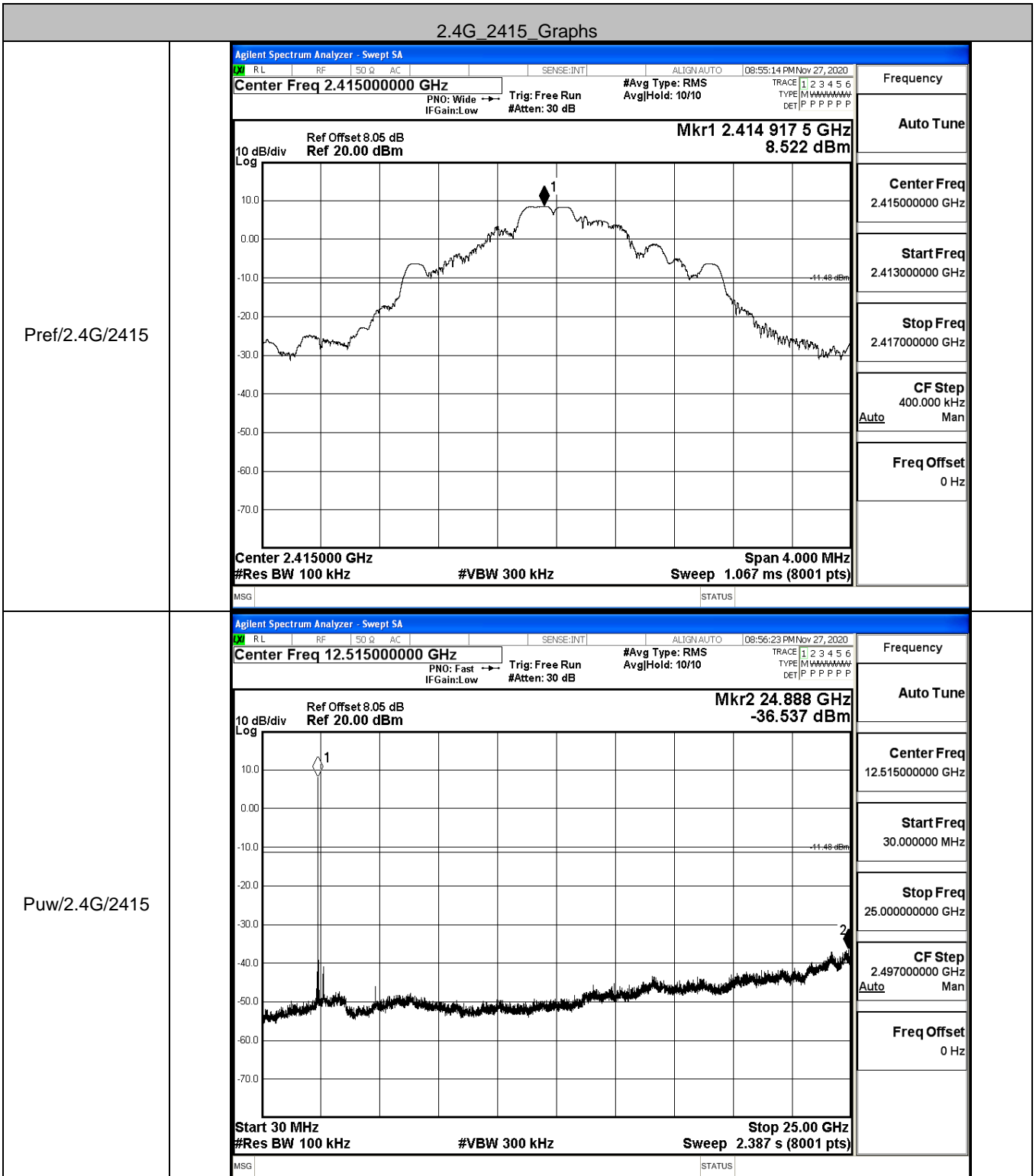
2460



Frequency	Center Freq 2.46000000 GHz
CF Step	400.000 kHz Auto Man
Freq Offset	0 Hz

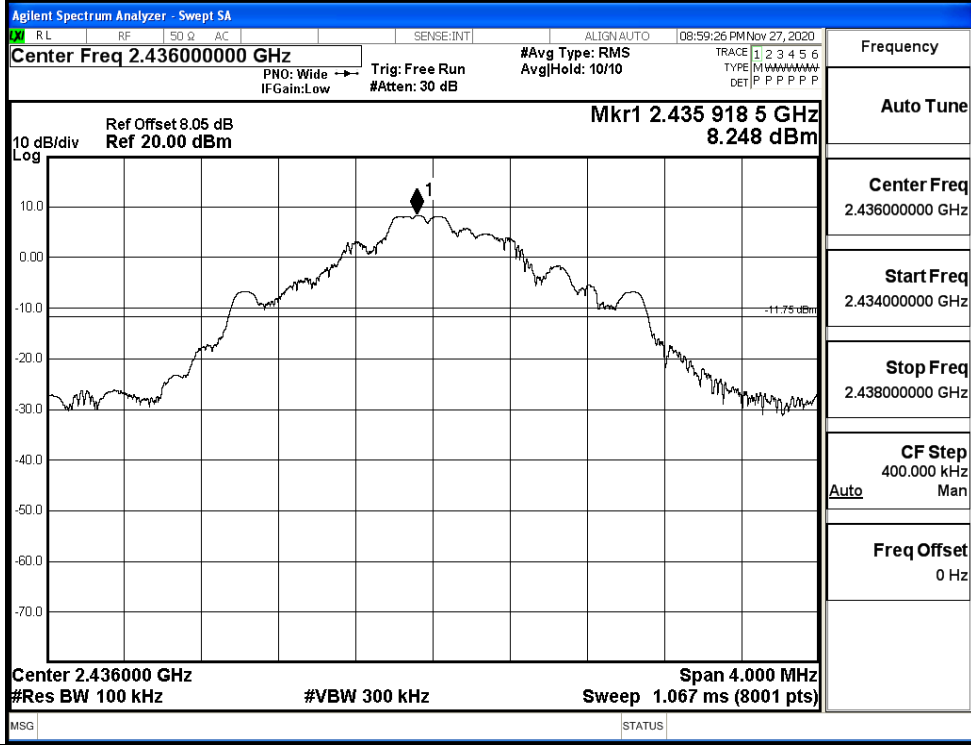
A.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
2.4G	2415	8.522	-36.537	-11.478	PASS
2.4G	2436	8.248	-36.736	-11.752	PASS
2.4G	2460	6.914	-35.762	-13.086	PASS

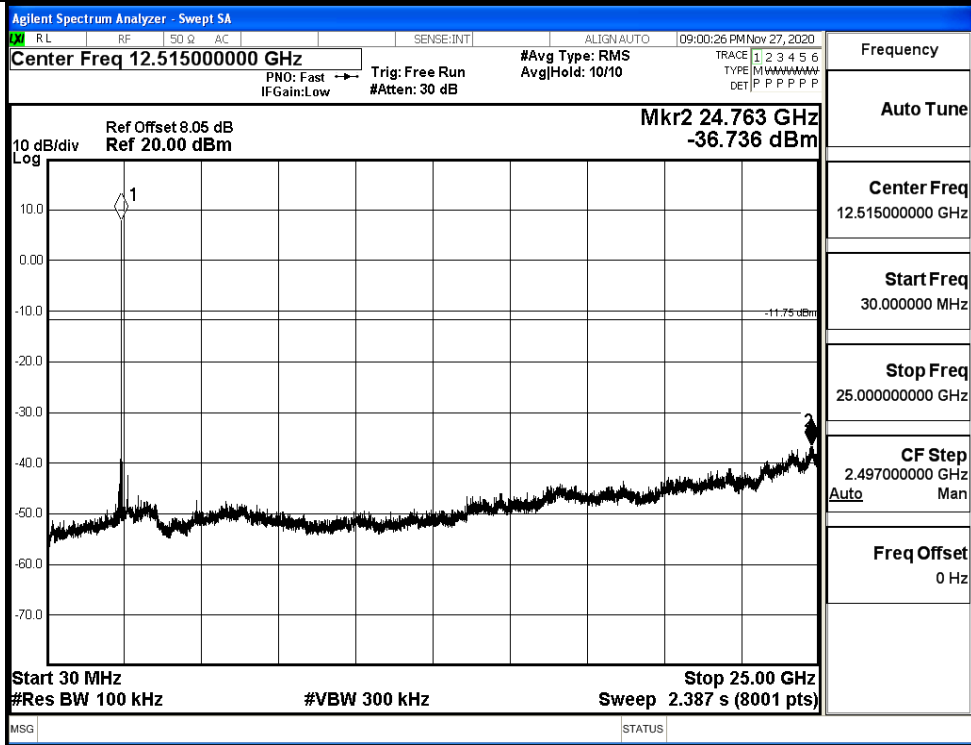


2.4G_2436_Graphs

Pref/2.4G/2436

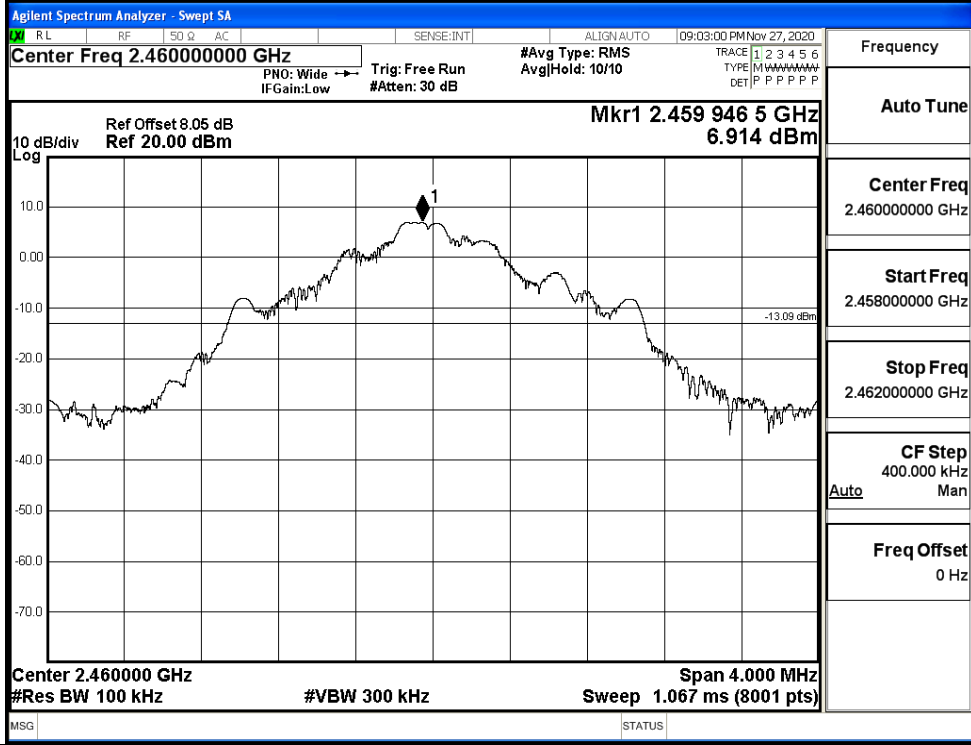


Puw/2.4G/2436

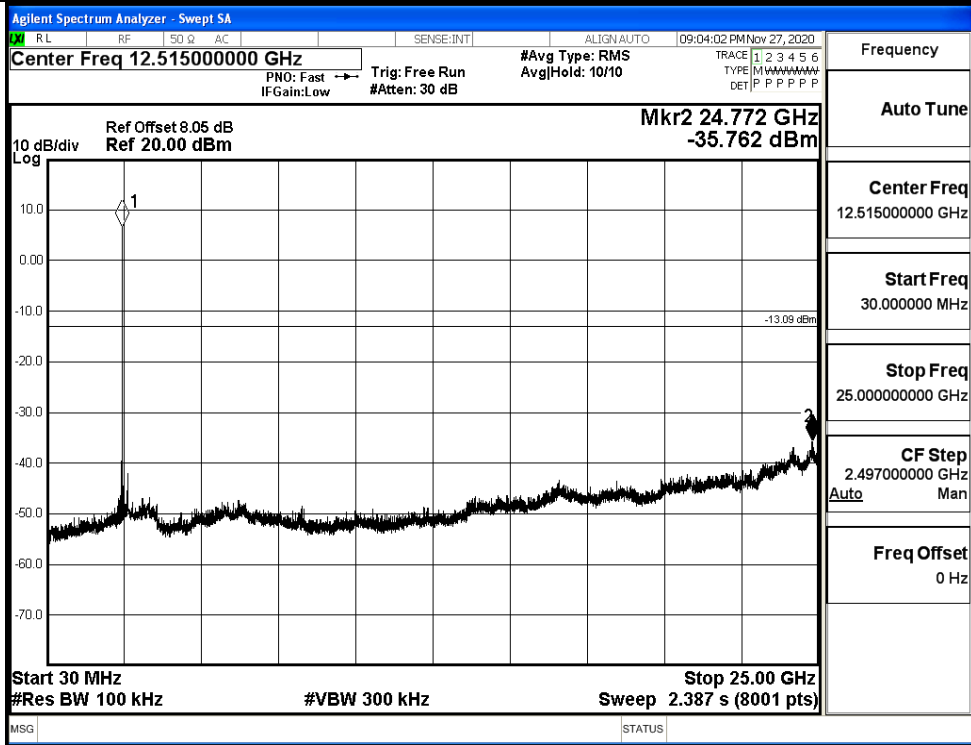


2.4G_2460_Graphs

Pref/2.4G/2460



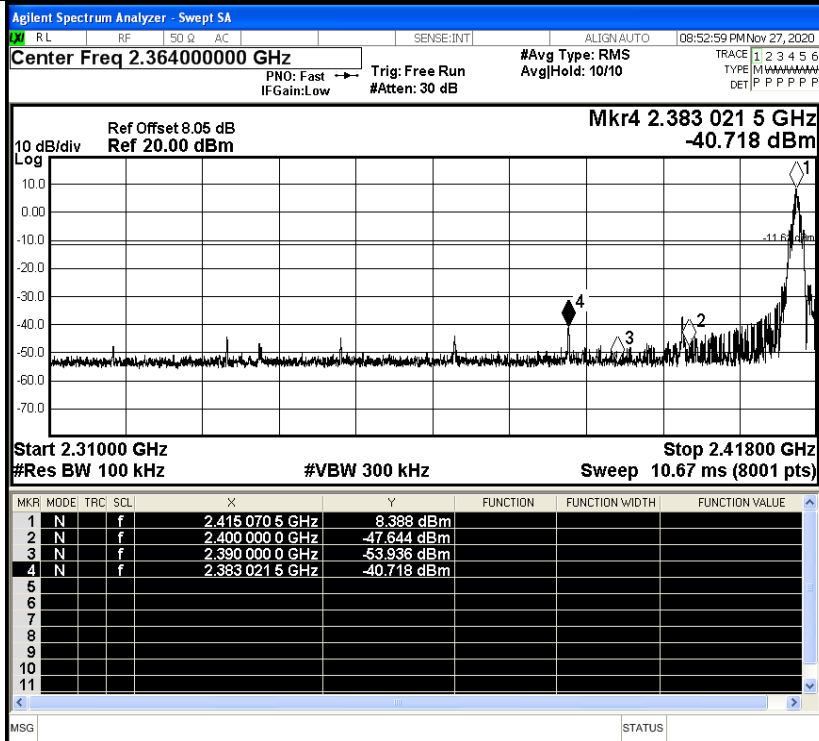
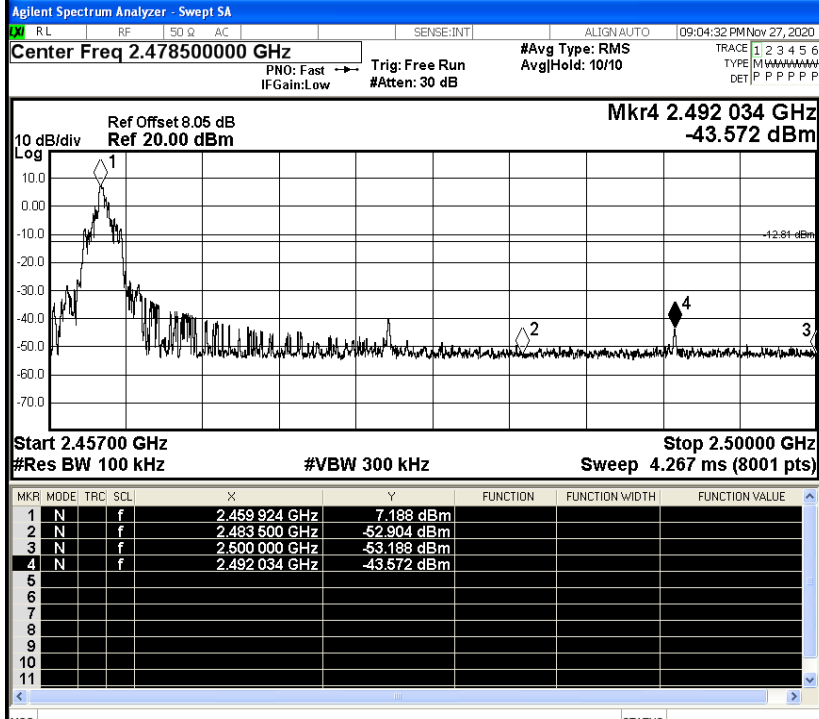
Puw/2.4G/2460



A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
2.4G	LCH	8.388	-40.718	-11.61	PASS
2.4G	HCH	7.188	-43.572	-12.81	PASS

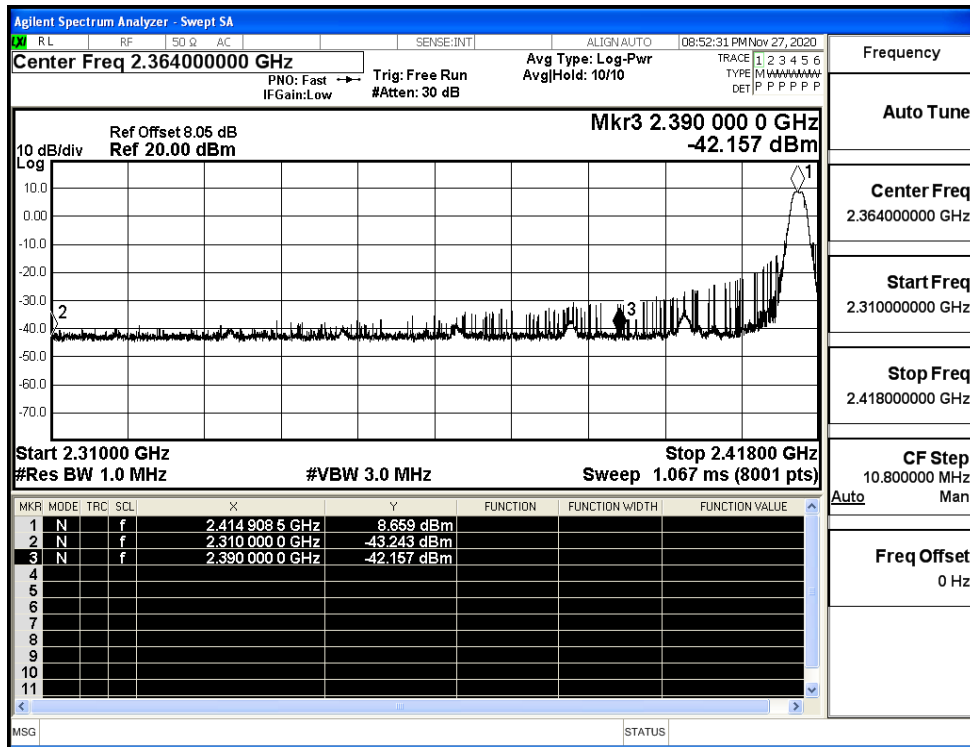
Test Graphs

LCH		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.36400000 GHz</p> <p>Start Freq 2.31000000 GHz</p> <p>Stop Freq 2.41800000 GHz</p> <p>CF Step 10.800000 MHz</p> <p>Freq Offset 0 Hz</p>
HCH		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.47850000 GHz</p> <p>Start Freq 2.45700000 GHz</p> <p>Stop Freq 2.50000000 GHz</p> <p>CF Step 4.300000 MHz</p> <p>Freq Offset 0 Hz</p>

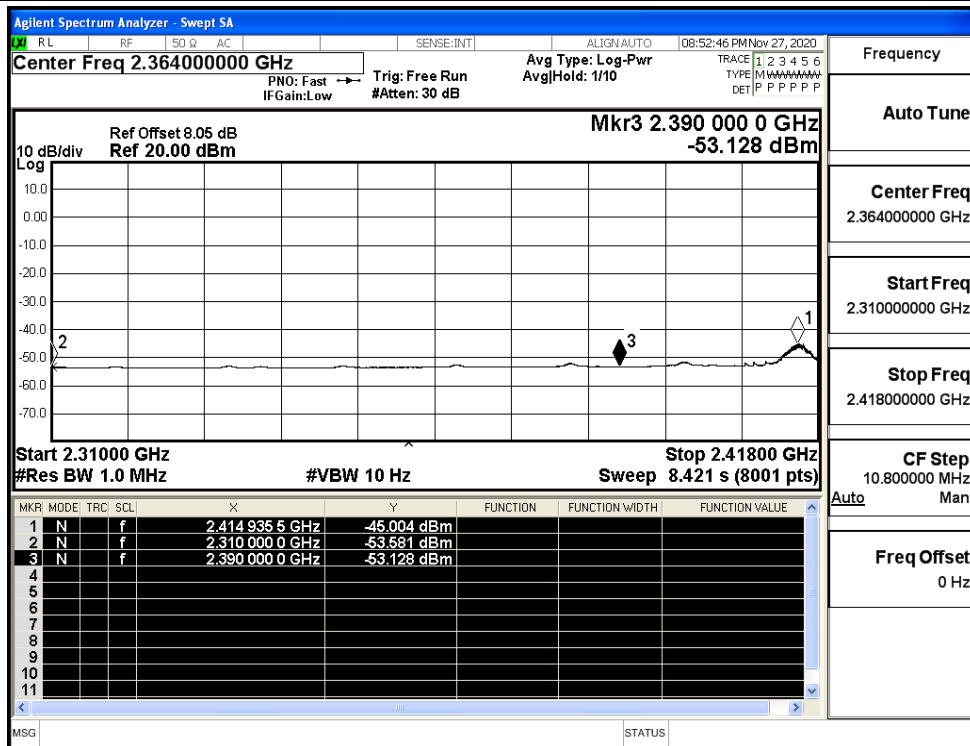
A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
2.4G	2415	2310.0	-43.24	2.0	0	53.99	PEAK	74	PASS
		2310.0	-53.58	2.0	0	43.65	AV	54	PASS
		2390.0	-42.16	2.0	0	55.07	PEAK	74	PASS
		2390.0	-53.13	2.0	0	44.10	AV	54	PASS
	2460	2483.5	-41.33	2.0	0	55.90	PEAK	74	PASS
		2483.5	-52.86	2.0	0	44.37	AV	54	PASS
		2500.0	-41.24	2.0	0	55.99	PEAK	74	PASS
		2500.0	-52.61	2.0	0	44.62	AV	54	PASS

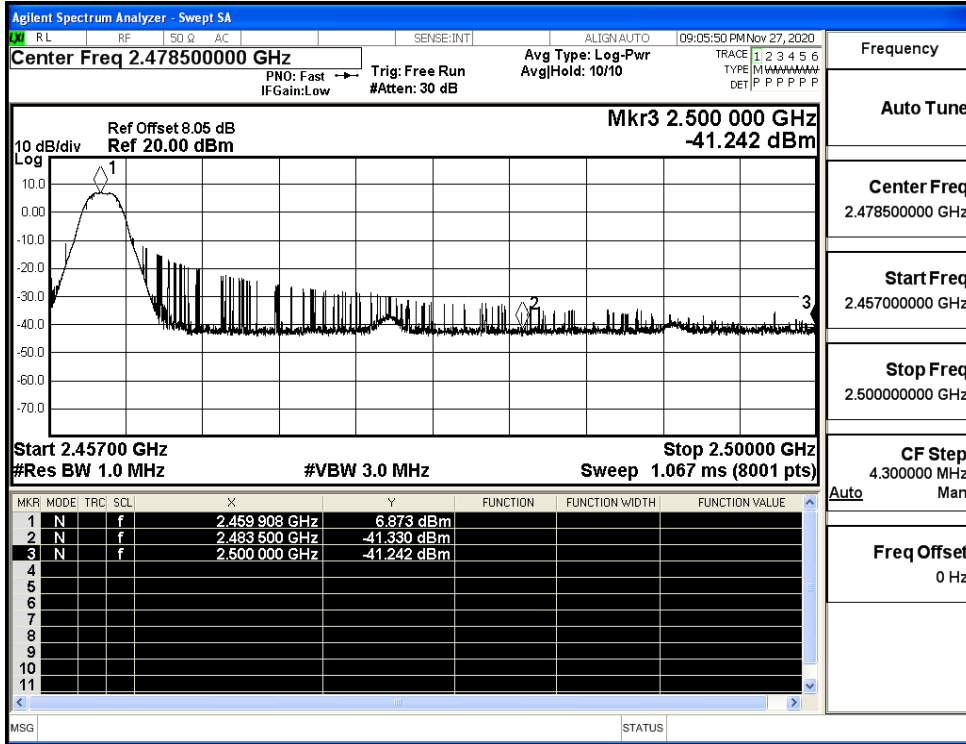
Restrict-band band-edge measurements_2.4G_2415_PEAK



Restrict-band band-edge measurements_2.4G_2415_AV



Restrict-band band-edge measurements_2.4G_2460_PEAK



Restrict-band band-edge measurements_2.4G_2460_AV

