



Plot 7-155. K Patch Radiated Spurious Plot 90-140 GHz (1CC QPSK Mid Channel V Beam)



Plot 7-156. K Patch Radiated Spurious Plot 90-140 GHz (1CC QPSK High Channel V Beam)

FCC ID: A3LSMG977U	The AMERICAN STREET OF STREET	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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The raw radiated spurious level is converted to field strength in dBµV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP [dBm] = Analyzer Level [dBm] + 107 + AFCL [dB/m] + 20Log(Dm) + Harmonic Mixer Loss (dB) - 104.8

Frequency [MHz]	Detector/ Trace	Chan.	Bandwidth (MHz)	Mod.	EUT Beam Polarization	Ant. Pos [H/V]	Ant. Height [cm]	Turn Table Azimuth [degree]	RSE EIRP [dBm]	Limit [dBm]	Margin [dB]
95910.50	RMS/Avg	Low	50	QPSK	Н	V	-	-	-39.44	-13.00	-26.44
128658.50	RMS/Avg	Mid	50	QPSK	Н	V		-	-39.48	-13.00	-26.48
128803.00	RMS/Avg	High	50	QPSK	Н	V	•	-	-39.54	-13.00	-26.54
99938.50	RMS/Avg	Low	50	QPSK	V	Н		-	-39.32	-13.00	-26.32
95933.00	RMS/Avg	Mid	50	QPSK	V	Н	•	-	-39.23	-13.00	-26.23
128555.00	RMS/Avg	High	50	QPSK	٧	Н	-	-	-39.66	-13.00	-26.66

Table 7-30. K Patch Spurious Emissions Table (90-140GHz)

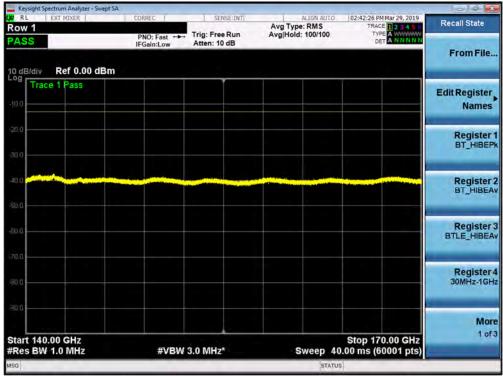
# Notes

- 1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.
- 2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

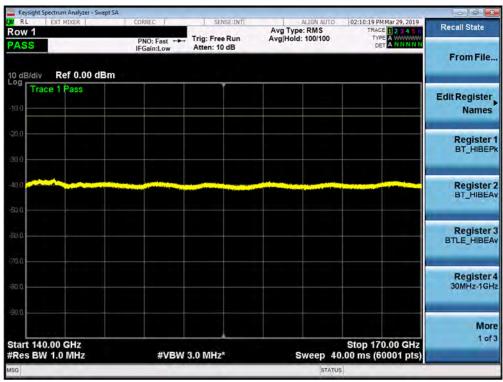
(-39.48 dBm + -39.23 dBm) = (112.72 nW + 119.40 nW) = (232.12 nW) = -36.34 dBm

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Plot 7-157. K Patch Radiated Spurious Plot 140-170 GHz (1CC QPSK Low Channel H Beam)



Plot 7-158. K Patch Radiated Spurious Plot 140-170 GHz (1CC QPSK Mid Channel H Beam)

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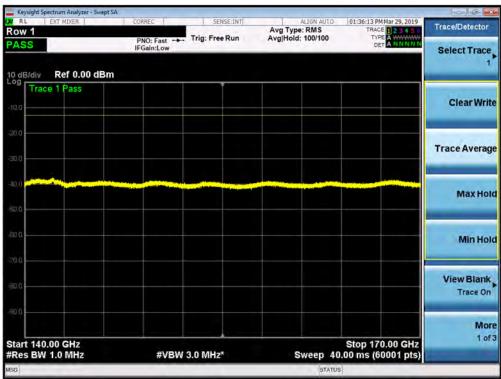
Plot 7-159. K Patch Radiated Spurious Plot 140-170 GHz (1CC QPSK High Channel H Beam)



Plot 7-160. K Patch Radiated Spurious Plot 140-170 GHz (1CC QPSK Low Channel V Beam)

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Plot 7-161. K Patch Radiated Spurious Plot 140-170 GHz (1CC QPSK Mid Channel V Beam)



Plot 7-162. K Patch Radiated Spurious Plot 140-170 GHz (1CC QPSK High Channel V Beam)

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The raw radiated spurious level is converted to field strength in  $dB\mu V/m$ . Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP [dBm] = Analyzer Level [dBm] + 107 + AFCL[dB/m] + 20Log(Dm) + Harmonic Mixer Loss (dB) – 104.8

Frequency [MHz]	Detector/ Trace	Chan.	Bandwidth (MHz)	Mod.	EUT Beam Polarization	Ant. Pos [H/V]	Ant. Height [cm]	Turn Table Azimuth [degree]	RSE EIRP [dBm]	Limit [dBm]	Margin [dB]
142135.50	RMS/Avg	Low	50	QPSK	Н	V		-	-37.21	-13.00	-24.21
142179.00	RMS/Avg	Mid	50	QPSK	Н	V	•	-	-37.28	-13.00	-24.28
142164.50	RMS/Avg	High	50	QPSK	Н	<b>V</b>		-	-37.34	-13.00	-24.34
142153.00	RMS/Avg	Low	50	QPSK	V	Н	•	-	-38.13	-13.00	-25.13
142148.00	RMS/Avg	Mid	50	QPSK	V	H	-	-	-37.48	-13.00	-24.48
142133.50	RMS/Avg	High	50	QPSK	V	Н	•	-	-37.83	-13.00	-24.83

Table 7-31. K Patch Spurious Emissions Table (140-170GHz)

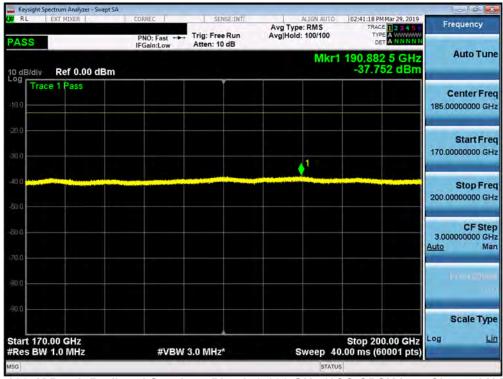
# Notes

- 1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.
- 2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

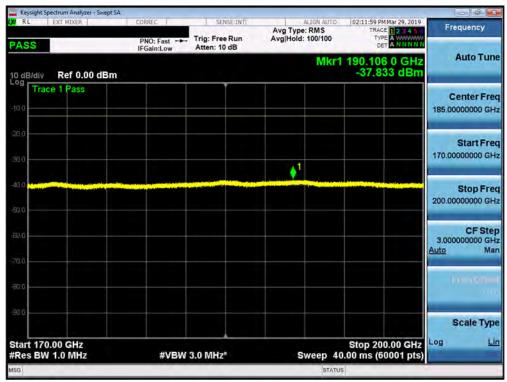
(-37.28 dBm + -37.48 dBm) = (187.07 nW + 178.65 nW) = (365.72 nW) = -34.37 dBm

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Plot 7-163. K Patch Radiated Spurious Plot 170-200 GHz (1CC QPSK Low Channel H Beam)



Plot 7-164. K Patch Radiated Spurious Plot 170-200 GHz (1CC QPSK Mid Channel H Beam)

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Plot 7-165. K Patch Radiated Spurious Plot 170-200 GHz (1CC QPSK High Channel H Beam)



Plot 7-166. K Patch Radiated Spurious Plot 170-200 GHz (1CC QPSK Low Channel V Beam)

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Plot 7-167. K Patch Radiated Spurious Plot 170-200 GHz (1CC QPSK Mid Channel V Beam)



Plot 7-168. K Patch Radiated Spurious Plot 170-200 GHz (1CC QPSK High Channel V Beam)

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The raw radiated spurious level is converted to field strength in  $dB\mu V/m$ . Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP [dBm] = Analyzer Level [dBm] + 107 + AFCL[dB/m] + 20Log(Dm) + Harmonic Mixer Loss (dB) – 104.8

Frequency [MHz]	Detector/ Trace	Chan.	Bandwidth (MHz)	Mod.	EUT Beam Polarization	Ant. Pos [H/V]	Ant. Height [cm]	Turn Table Azimuth [degree]	RSE EIRP [dBm]	Limit [dBm]	Margin [dB]
190882.50	RMS/Avg	Low	50	QPSK	Н	V	-	-	-37.75	-13.00	-24.75
190106.00	RMS/Avg	Mid	50	QPSK	Н	V	-	-	-37.83	-13.00	-24.83
190931.50	RMS/Avg	High	50	QPSK	Н	٧	-	-	-37.85	-13.00	-24.85
190251.00	RMS/Avg	Low	50	QPSK	V	Н	-	-	-37.78	-13.00	-24.78
190703.50	RMS/Avg	Mid	50	QPSK	V	I	-	-	-37.67	-13.00	-24.67
184899.00	RMS/Avg	High	50	QPSK	V	Н	-	-	-37.78	-13.00	-24.78

Table 7-32. K Patch Spurious Emissions Table (170-200GHz)

## Notes

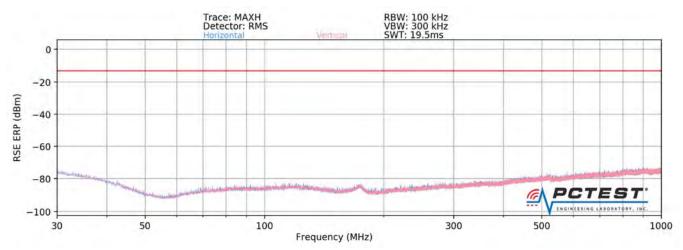
- The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.
- 2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

(-37.83 dBm + -37.67 dBm) = (164.82 nW + 171.00 nW) = (335.82 nW) = -34.74 dBm

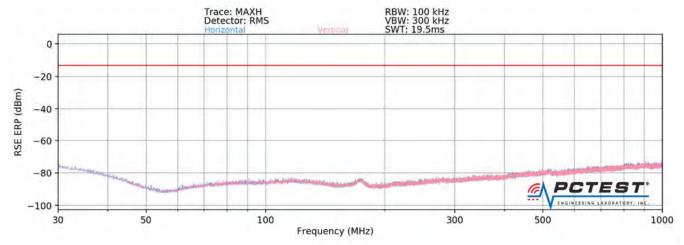
FCC ID: A3LSMG977U	The AMPANES OF A STRATEGY TO BE	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)		roved by: lity Manager
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# 7.4.4 L Patch Radiated Spurious Emissions 30MHz – 1GHz



Plot 7-169. L Patch Radiated Spurious Plot 30 MHz - 1 GHz (1CC QPSK Mid Channel H Beam)

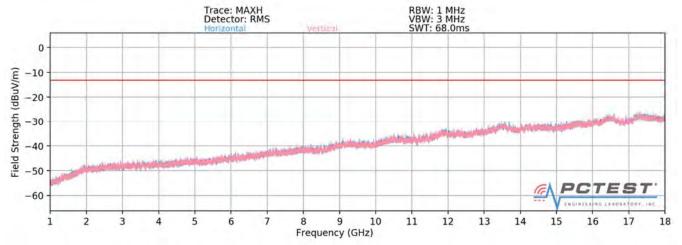


Plot 7-170. L Patch Radiated Spurious Plot 30 MHz - 1 GHz (1CC QPSK Mid Channel V Beam)

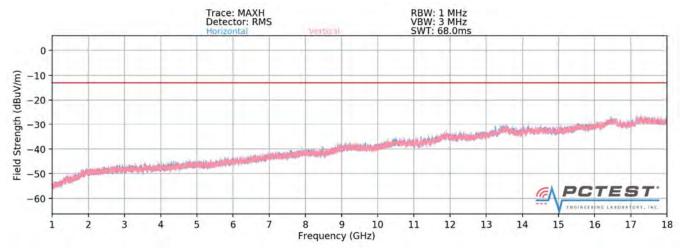
FCC ID: A3LSMG977U	The AMPANES OF A STRATEGY TO BE	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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# 1 - 18GHz



Plot 7-171. L Patch Radiated Spurious Plot 1-18 GHz (1CC QPSK Mid Channel H Beam)



Plot 7-172. L Patch Radiated Spurious Plot 1-18 GHz (1CC QPSK Mid Channel V Beam)

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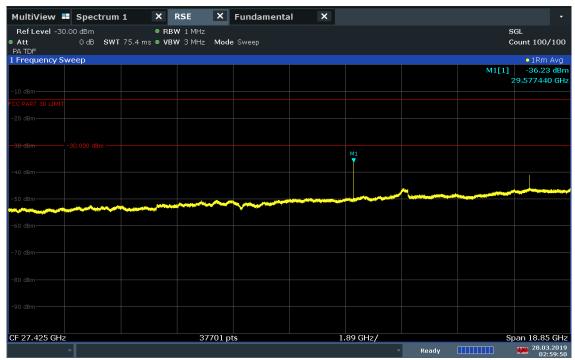


# 18 - 36.85GHz

#### ACLRResults



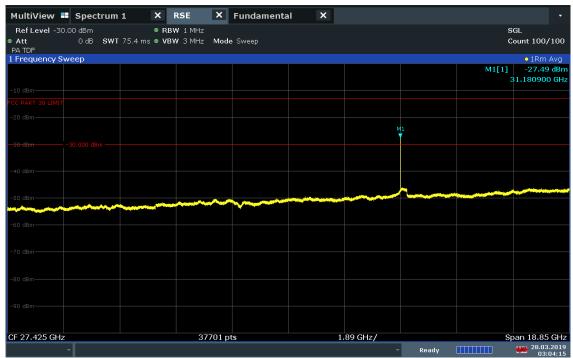
Plot 7-173. L Patch Radiated Spurious Plot 18-36.85 GHz (1CC QPSK Low Channel H Beam)



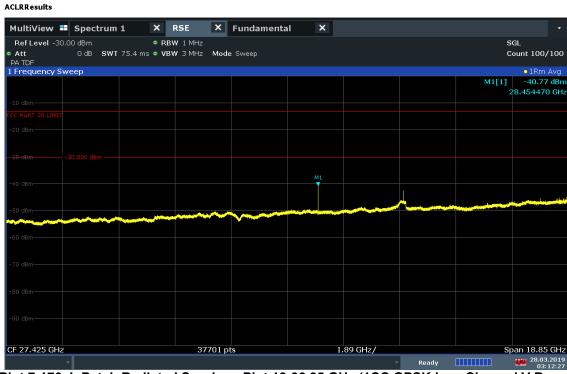
Plot 7-174. L Patch Radiated Spurious Plot 18-36.85 GHz (1CC QPSK Mid Channel H Beam)

FCC ID: A3LSMG977U	The AMPLANCE OF A STORE THEY THEN	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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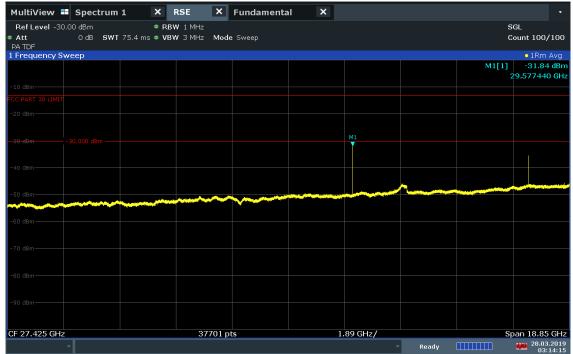
Plot 7-175. L Patch Radiated Spurious Plot 18-36.85 GHz (1CC QPSK High Channel H Beam)



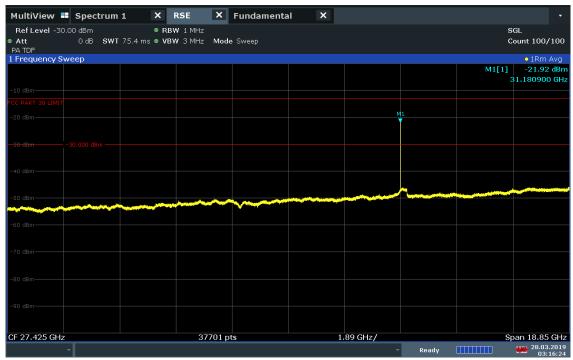
Plot 7-176. L Patch Radiated Spurious Plot 18-36.85 GHz (1CC QPSK Low Channel V Beam)

FCC ID: A3LSMG977U	The rest of a state of the contract of the con	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	AMSONE	Approved by: Quality Manager
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Plot 7-177. L Patch Radiated Spurious Plot 18-36.85 GHz (1CC QPSK Mid Channel V Beam)



Plot 7-178. L Patch Radiated Spurious Plot 18-36.85 GHz (1CC QPSK High Channel V Beam)

FCC ID: A3LSMG977U	The AMPANES OF A STRATEGY TO BE	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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The raw radiated spurious level is converted to field strength in dBµV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP [dBm] = Analyzer Level [dBm] + 107 + AFCL [dB/m] + 20Log(Dm) - 104.8

Frequency [MHz]	Detector/ Trace	Chan.	Bandwidth (MHz)	Mod.	EUT Beam Polarization	Ant. Pos [H/V]	Ant. Height [cm]	Turn Table Azimuth [degree]	RSE EIRP [dBm]	Limit [dBm]	Margin [dB]
28454.47	RMS/Avg	Low	50	QPSK	Н	V	150	252	-41.87	-13.00	-28.87
29577.44	RMS/Avg	Mid	50	QPSK	Н	V	150	222	-36.23	-13.00	-23.23
31180.90	RMS/Avg	High	50	QPSK	Н	V	150	350	-27.49	-13.00	-14.49
28454.47	RMS/Avg	Low	50	QPSK	V	V	150	221	-40.77	-13.00	-27.77
29577.44	RMS/Avg	Mid	50	QPSK	V	V	150	262	-31.84	-13.00	-18.84
31180.90	RMS/Avg	High	50	QPSK	V	V	150	287	-21.92	-13.00	-8.92

Table 7-33. L Patch Spurious Emissions Table (18-36.85GHz)

- 1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.
- 2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

$$(-27.49 \text{ dBm} + -21.92 \text{ dBm}) = (1.78 \mu\text{W} + 6.43 \mu\text{W}) = (8.21 \mu\text{W}) = -20.86 \text{ dBm}$$

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# 40.15 - 60GHz

#### **ACLRResults**



Plot 7-179. L Patch Radiated Spurious Plot 40.15-60 GHz (1CC QPSK Low Channel H Beam)



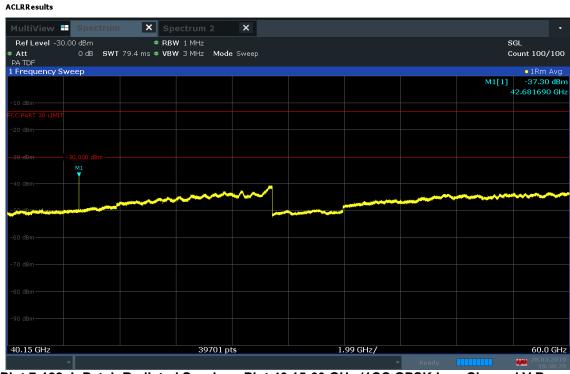
Plot 7-180. L Patch Radiated Spurious Plot 40.15-60 GHz (1CC QPSK Mid Channel H Beam)

FCC ID: A3LSMG977U	The AMPLANCE OF A STORE THEY THEN	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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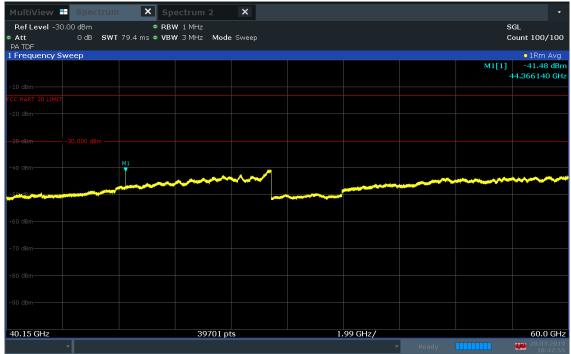
Plot 7-181. L Patch Radiated Spurious Plot 40.15-60 GHz (1CC QPSK High Channel H Beam)



Plot 7-182. L Patch Radiated Spurious Plot 40.15-60 GHz (1CC QPSK Low Channel V Beam)

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Plot 7-183. L Patch Radiated Spurious Plot 40.15-60 GHz (1CC QPSK Mid Channel V Beam)



Plot 7-184. L Patch Radiated Spurious Plot 40.15-60 GHz (1CC QPSK High Channel V Beam)

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The raw radiated spurious level is converted to field strength in  $dB\mu V/m$ . Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1.5 meter.

RSE EIRP [dBm] = Analyzer Level [dBm] + AFCL [dB/m] + 20Log(Dm) - 104.8

Frequency [MHz]	Detector/ Trace	Chan.	Bandwidth (MHz)	Mod.	EUT Beam Polarization	Ant. Pos [H/V]	Ant. Height [cm]	Turn Table Azimuth [degree]	RSE EIRP [dBm]	Limit [dBm]	Margin [dB]
42681.69	RMS/Avg	Low	50	QPSK	Н	H	150	265	-31.55	-13.00	-18.55
44366.14	RMS/Avg	Mid	50	QPSK	Н	Н	150	217	-33.55	-13.00	-20.55
46771.08	RMS/Avg	High	50	QPSK	Н	H	150	327	-38.97	-13.00	-25.97
42681.69	RMS/Avg	Low	50	QPSK	V	Н	150	235	-37.30	-13.00	-24.30
44366.14	RMS/Avg	Mid	50	QPSK	V	H	150	268	-41.48	-13.00	-28.48
49491.51	RMS/Avg	High	50	QPSK	V	I	150	300	-41.05	-13.00	-28.05

Table 7-34. L Patch Spurious Emissions Table (40.15-60 GHz)

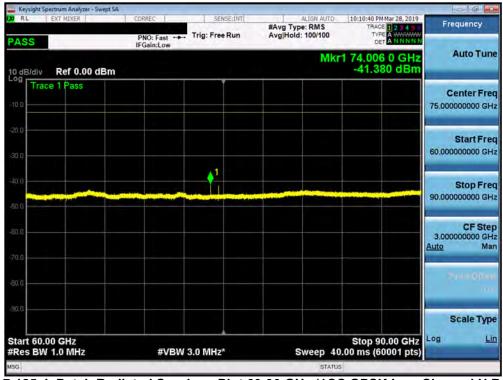
# Notes

- 1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1.5 meter.
- 2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

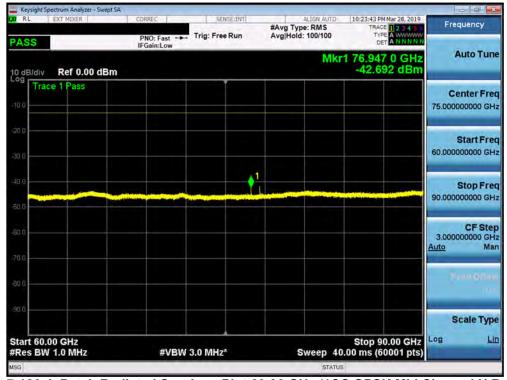
(-31.55 dBm + -37.30 dBm) = (699.84 nW + 186.21 nW) = (886.05 nW) = -30.53 dBm

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Plot 7-185. L Patch Radiated Spurious Plot 60-90 GHz (1CC QPSK Low Channel H Beam)



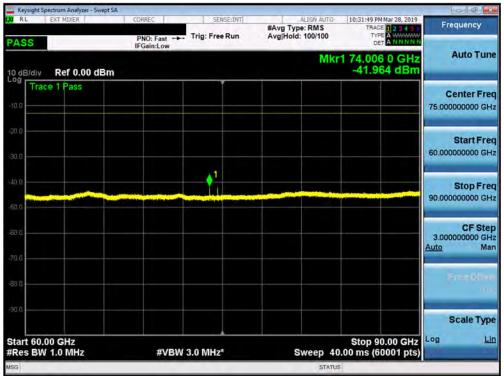
Plot 7-186. L Patch Radiated Spurious Plot 60-90 GHz (1CC QPSK Mid Channel H Beam)

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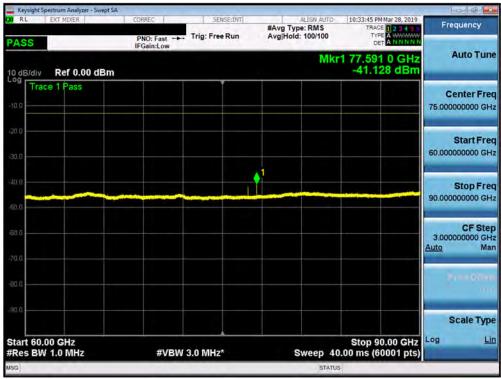
Plot 7-187. L Patch Radiated Spurious Plot 60-90 GHz (1CC QPSK High Channel H Beam)



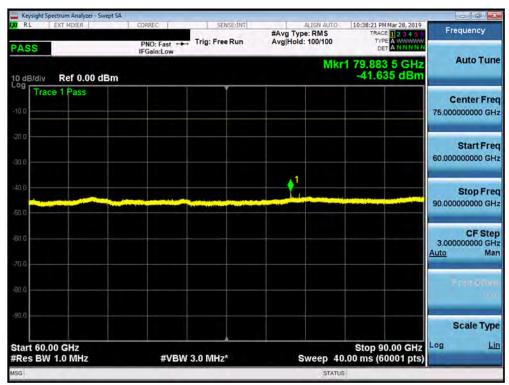
Plot 7-188. L Patch Radiated Spurious Plot 60-90 GHz (1CC QPSK Low Channel V Beam)

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Plot 7-189. L Patch Radiated Spurious Plot 60-90 GHz (1CC QPSK Mid Channel V Beam)



Plot 7-190. L Patch Radiated Spurious Plot 60-90 GHz (1CC QPSK High Channel V Beam)

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The raw radiated spurious level is converted to field strength in dBµV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP [dBm] = Analyzer Level [dBm] + 107 + AFCL [dB/m] + 20Log(Dm) + Harmonic Mixer Loss (dB) - 104.8

Frequency [MHz]	Detector/ Trace	Chan.	Bandwidth (MHz)	Mod.	EUT Beam Polarization	Ant. Pos [H/V]	Ant. Height [cm]	Turn Table Azimuth [degree]	RSE EIRP [dBm]	Limit [dBm]	Margin [dB]
74006.00	RMS/Avg	Low	50	QPSK	Н	V	150	308	-41.38	-13.00	-28.38
76947.00	RMS/Avg	Mid	50	QPSK	Н	<b>V</b>	150	314	-42.69	-13.00	-29.69
79883.50	RMS/Avg	High	50	QPSK	Н	V	150	288	-42.91	-13.00	-29.91
74006.00	RMS/Avg	Low	50	QPSK	V	Н	150	316	-41.96	-13.00	-28.96
77591.00	RMS/Avg	Mid	50	QPSK	V	Н	150	324	-41.13	-13.00	-28.13
79883.50	RMS/Avg	High	50	QPSK	V	Н	150	333	-41.64	-13.00	-28.64

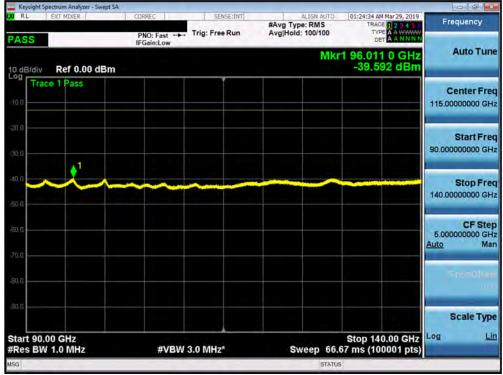
Table 7-35. L Patch Spurious Emissions Table (60-90GHz)

- 1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.
- 2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

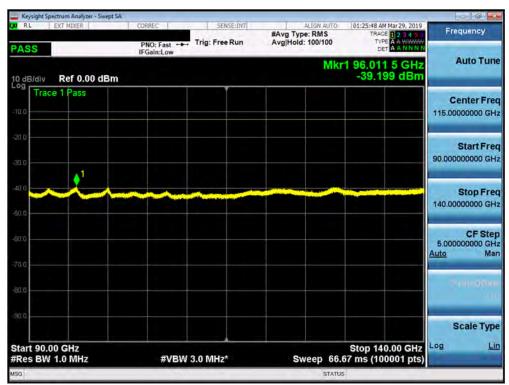
$$(-41.38 \text{ dBm} + -41.96 \text{ dBm}) = (72.78 \text{ nW} + 63.68 \text{ nW}) = (136.46 \text{ nW}) = -38.65 \text{ dBm}$$

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Plot 7-191. L Patch Radiated Spurious Plot 90-140 GHz (1CC QPSK Low Channel H Beam)



Plot 7-192. L Patch Radiated Spurious Plot 90-140 GHz (1CC QPSK Mid Channel H Beam)

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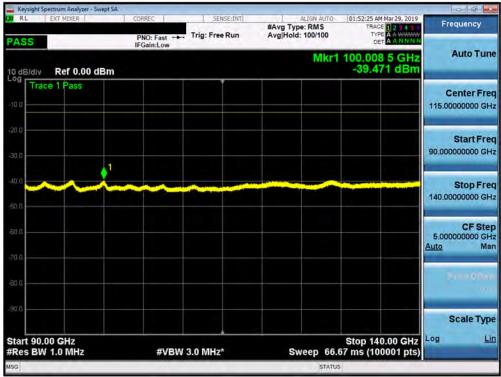
Plot 7-193. L Patch Radiated Spurious Plot 90-140 GHz (1CC QPSK High Channel H Beam)



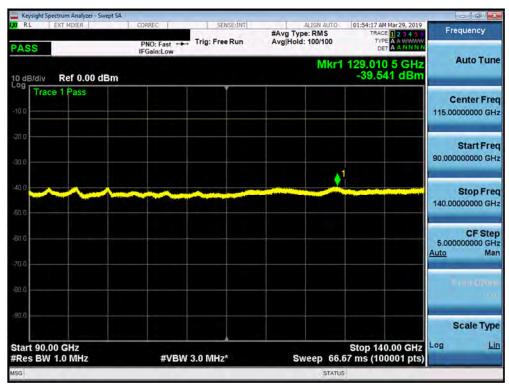
Plot 7-194. L Patch Radiated Spurious Plot 90-140 GHz (1CC QPSK Low Channel V Beam)

FCC ID: A3LSMG977U	The AMERICAN STREET OF STREET	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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Plot 7-195. L Patch Radiated Spurious Plot 90-140 GHz (1CC QPSK Mid Channel V Beam)



Plot 7-196. L Patch Radiated Spurious Plot 90-140 GHz (1CC QPSK High Channel V Beam)

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The raw radiated spurious level is converted to field strength in dBµV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP [dBm] = Analyzer Level [dBm] + 107 + AFCL [dB/m] + 20Log(Dm) + Harmonic Mixer Loss (dB) - 104.8

Frequency [MHz]	Detector/ Trace	Chan.	Bandwidth (MHz)	Mod.	EUT Beam Polarization	Ant. Pos [H/V]	Ant. Height [cm]	Turn Table Azimuth [degree]	RSE EIRP [dBm]	Limit [dBm]	Margin [dB]
96011.00	RMS/Avg	Low	50	QPSK	Н	V	-	-	-39.59	-13.00	-26.59
96011.50	RMS/Avg	Mid	50	QPSK	Н	V	-	-	-39.20	-13.00	-26.20
128507.50	RMS/Avg	High	50	QPSK	Н	V	•	-	-39.74	-13.00	-26.74
128856.50	RMS/Avg	Low	50	QPSK	V	Н	•	-	-39.42	-13.00	-26.42
100008.50	RMS/Avg	Mid	50	QPSK	V	Н	-	-	-39.47	-13.00	-26.47
129010.50	RMS/Avg	High	50	QPSK	٧	Н	-	-	-39.54	-13.00	-26.54

Table 7-36. L Patch Spurious Emissions Table (90-140GHz)

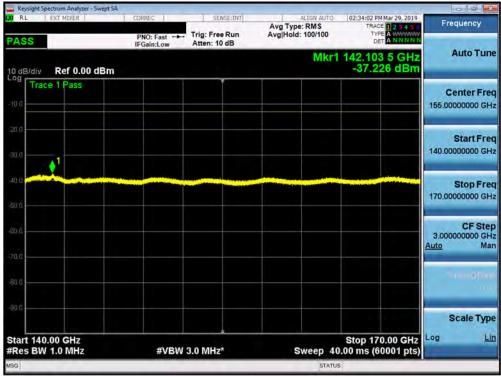
# Notes

- 1. The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.
- 2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

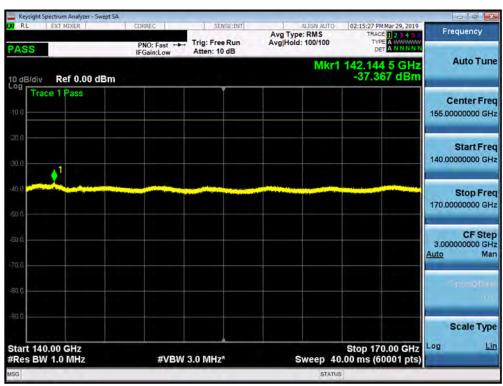
(-39.20 dBm + -39.47 dBm) = (120.23 nW + 112.98 nW) = (233.21 nW) = -36.32 dBm

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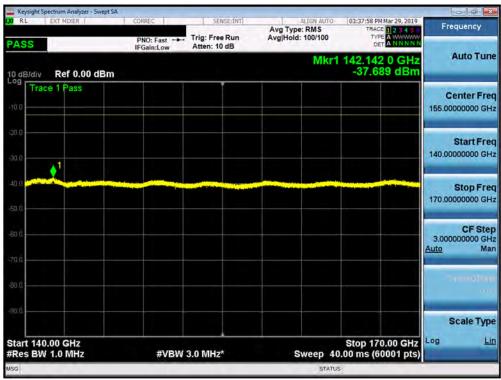
Plot 7-197. L Patch Radiated Spurious Plot 140-170 GHz (1CC QPSK Low Channel H Beam)



Plot 7-198. L Patch Radiated Spurious Plot 140-170 GHz (1CC QPSK Mid Channel H Beam)

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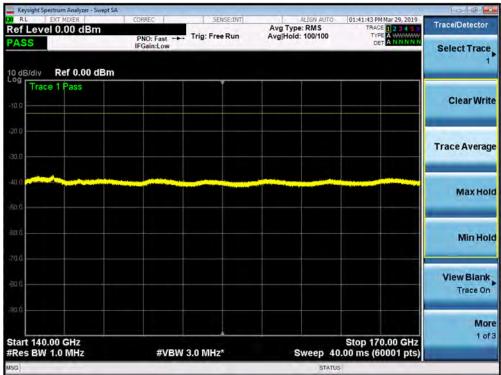
Plot 7-199. L Patch Radiated Spurious Plot 140-170 GHz (1CC QPSK High Channel H Beam)



Plot 7-200. L Patch Radiated Spurious Plot 140-170 GHz (1CC QPSK Low Channel V Beam)

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Plot 7-201. L Patch Radiated Spurious Plot 140-170 GHz (1CC QPSK Mid Channel V Beam)



Plot 7-202. L Patch Radiated Spurious Plot 140-170 GHz (1CC QPSK High Channel V Beam)

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The raw radiated spurious level is converted to field strength in  $dB\mu V/m$ . Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP [dBm] = Analyzer Level [dBm] + 107 + AFCL[dB/m] + 20Log(Dm) + Harmonic Mixer Loss (dB) - 104.8

Frequency [MHz]	Detector/ Trace	Chan.	Bandwidth (MHz)	Mod.	EUT Beam Polarization	Ant. Pos [H/V]	Ant. Height [cm]	Turn Table Azimuth [degree]	RSE EIRP [dBm]	Limit [dBm]	Margin [dB]
142103.50	RMS/Avg	Low	50	QPSK	Н	V	-	-	-37.23	-13.00	-24.23
142144.50	RMS/Avg	Mid	50	QPSK	Н	V		-	-37.37	-13.00	-24.37
142142.00	RMS/Avg	High	50	QPSK	Н	V	•	-	-37.69	-13.00	-24.69
142107.50	RMS/Avg	Low	50	QPSK	V	Н	-	-	-37.17	-13.00	-24.17
142161.00	RMS/Avg	Mid	50	QPSK	V	Н	-	-	-37.14	-13.00	-24.14
142171.00	RMS/Avg	High	50	QPSK	V	Н	-	-	-37.24	-13.00	-24.24

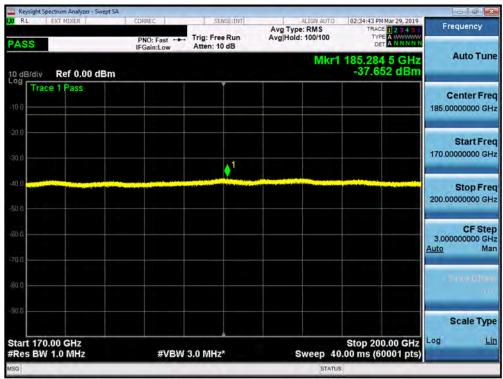
Table 7-37. L Patch Spurious Emissions Table (140-170GHz)

- The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.
- 2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

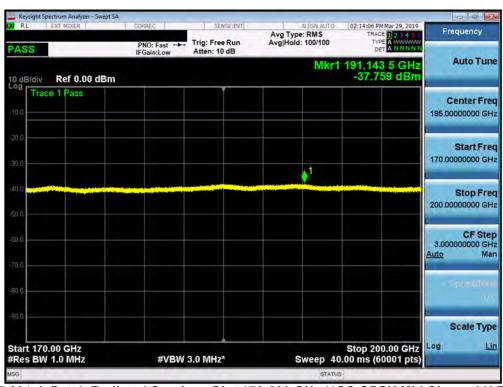
$$(-37.23 \text{ dBm} + -37.17 \text{ dBm}) = (189.23 \text{ nW} + 191.87 \text{ nW}) = (381.10 \text{ nW}) = -34.19 \text{ dBm}$$

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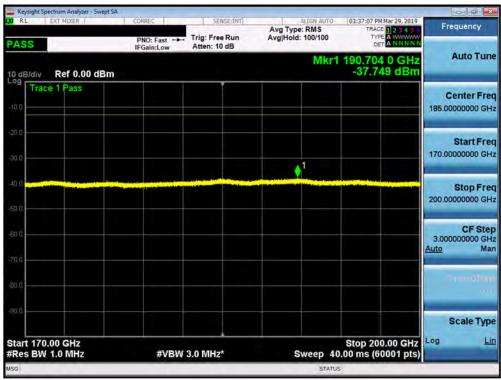
Plot 7-203. L Patch Radiated Spurious Plot 170-200 GHz (1CC QPSK Low Channel H Beam)



Plot 7-204. L Patch Radiated Spurious Plot 170-200 GHz (1CC QPSK Mid Channel H Beam)

FCC ID: A3LSMG977U	The AMPLANCE OF A STORE THEY THEN	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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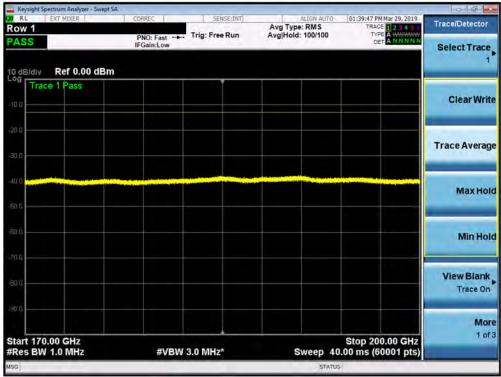
Plot 7-205. L Patch Radiated Spurious Plot 170-200 GHz (1CC QPSK High Channel H Beam)



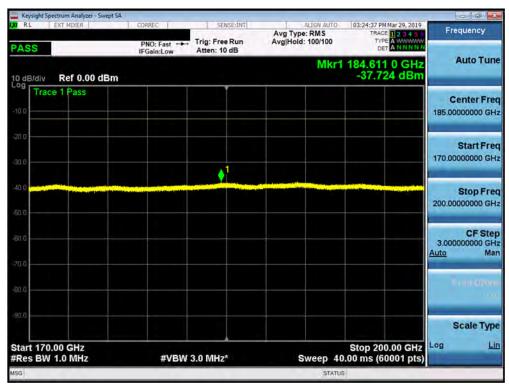
Plot 7-206. L Patch Radiated Spurious Plot 170-200 GHz (1CC QPSK Low Channel V Beam)

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Plot 7-207. L Patch Radiated Spurious Plot 170-200 GHz (1CC QPSK Mid Channel V Beam)



Plot 7-208. L Patch Radiated Spurious Plot 170-200 GHz (1CC QPSK High Channel V Beam)

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The raw radiated spurious level is converted to field strength in  $dB\mu V/m$ . Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP [dBm] = Analyzer Level [dBm] + 107 + AFCL[dB/m] + 20Log(Dm) + Harmonic Mixer Loss (dB) - 104.8

Frequency [MHz]	Detector/ Trace	Chan.	Bandwidth (MHz)	Mod.	EUT Beam Polarization	Ant. Pos [H/V]	Ant. Height [cm]	Turn Table Azimuth [degree]	RSE EIRP [dBm]	Limit [dBm]	Margin [dB]
185284.50	RMS/Avg	Low	50	QPSK	Н	V		-	-37.65	-13.00	-24.65
191143.50	RMS/Avg	Mid	50	QPSK	Н	V	•	-	-37.76	-13.00	-24.76
190704.00	RMS/Avg	High	50	QPSK	Н	<b>V</b>		-	-37.75	-13.00	-24.75
190583.50	RMS/Avg	Low	50	QPSK	V	Н	•	-	-37.75	-13.00	-24.75
190930.00	RMS/Avg	Mid	50	QPSK	V	H	-	-	-37.65	-13.00	-24.65
184611.00	RMS/Avg	High	50	QPSK	V	Н	-	-	-37.72	-13.00	-24.72

Table 7-38. L Patch Spurious Emissions Table (170-200GHz)

- The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.
- 2. To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm:

$$(-37.65 \text{ dBm} + -37.75 \text{ dBm}) = (171.79 \text{ nW} + 167.88 \text{ nW}) = (339.67 \text{ nW}) = -34.69 \text{ dBm}$$

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#### **Band Edge Emissions** 7.5

§2.1051, §30.203

#### **Test Overview**

All out of band emissions are measured in a radiated setup while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All modulations were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is -13dBm/1MHz. However, in the bands immediately outside and adjacent to the licensee's frequency block, having a bandwidth equal to 10 percent of the channel bandwidth, the conductive power or the total radiated power of any emission shall be -5 dBm/MHz or lower.

### **Test Procedure Used**

ANSI C63.26-2015 Section 5 and ANSI C63.26-2015 Section 6.4

### **Test Settings**

- 1. Start and stop frequency were set such that both upper and lower band edges are measured.
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- RBW = 1MHz
- 4.  $VBW > 3 \times RBW$
- Detector = RMS
- 6. Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = trace average
- Sweep time = auto couple
- 9. The trace was allowed to stabilize

### **Test Notes**

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.
- Band Edge measurements in this section are shown as equivalent conductive powers for direct comparison to the 30.203 limit. The condutive power at the band edge is calculated by subtracting the gain of the EUT's antenna from the measured EIRP level. Antenna Gain information is shown on the following page.
- 3) Band Edge emissions were measured at a 1 meter distance.
- 4) The spectrum analyzer for each measurement shows an offset value that was determined using the measurement antenna factor, cable loss, far field measurement distance, and EUT antenna gain. A sample calculation is shown on the following page.
- 5) MIMO Band Edge plots shown below are mathematically summed conductive powers between spectrum analyzer measurements on H Beam and V Beam. This MIMO bandedge plot was produced by summing the following two spectrum analyzer traces: (1) the first trace is maximized while the EUT is transmitting in H-beam and (2) the second trace is maximized while the EUT is transmitting in V-beam.
- 6) The MIMO Band Edges were calculated by using the "measure and sum the spectra across the outputs" technique specified in Section 6.4.3.2.2 of ANSI C63.26-2015. The spectra were summed linearly and converted to dBm for comparison with the limit.

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# 7.5.1 Antenna Gain Information at the Band Edge

The following antenna gain information is provided to demonstrate the antenna performance of the 37 – 40GHz band. These antenna gains were subtracted from the measured EIRP levels at the lower and upper band edge frequencies to determine an equivalent conductive power that was compared directly with the §30.203 limits

Antenna	Channel	Beam	Beam ID	Gain
		Polarization		(dBi)
	Low	Н	4	7.06
J Dipole	LOW	V	133	7.24
J Dipole	High	Н	17	8.19
	nigii	V	144	8.17
	Low	Н	25	10.33
I Datala	Low	V	168	11.29
J Patch	High	Н	24	10.19
		V	153	11.64
	Low	Н	45	10.54
K Patch	LOW	V	172	10.14
K Falcii	High	Н	45	10.82
	nign	V	172	8.23
L Patch	1	Н	35	11.35
	Low	V	164	9.82
	High	Н	35	10.63
	riigii	V	176	8.94

Table 7-39. Antenna Gains at the Band Edges

## Sample Analyzer Offset Calculation (at 37GHz)

Measurement Antenna Factor = 41.30dB/m

Cable Loss = 10.01dB

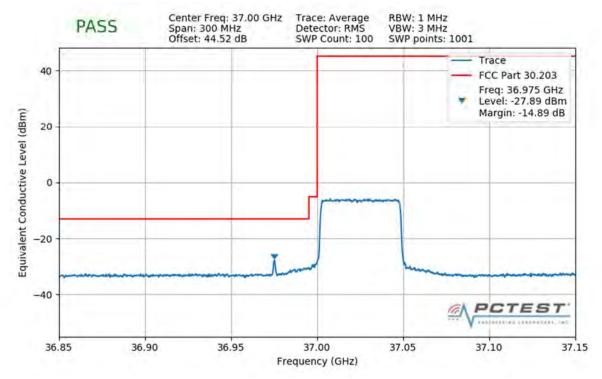
EUT Antenna Gain = 7.06dBi

Analyzer Offset (dB) = AF (dB/m) + CL (dB) + 
$$107 + 20\log_{10}(D) - 104.8dB - Gain$$
 (dBi), where D = 1m =  $41.30dB/m + 10.01dB + 107 + 20\log_{10}(1m) - 104.8dB - 7.06dBi$  =  $44.52dB$ 

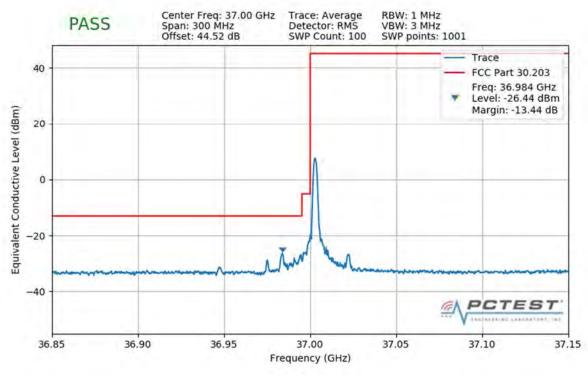
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#### 7.5.2 J Dipole Band Edge H Beam



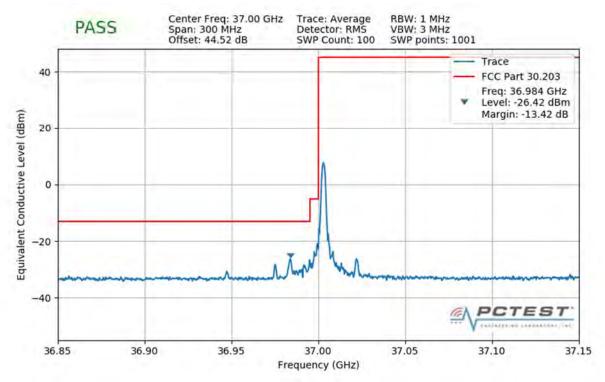
Plot 7-209. Lower Band Edge Plot (1CC 50MHz QPSK Full RB)



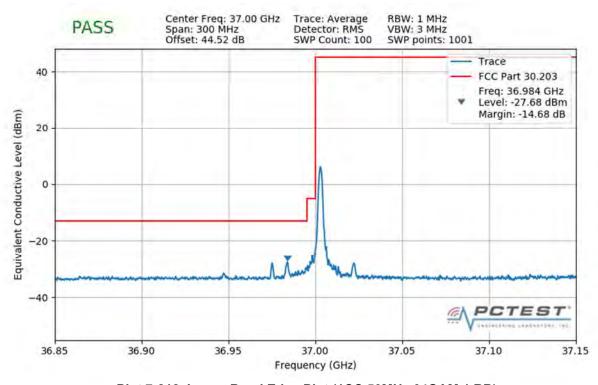
Plot 7-210. Lower Band Edge Plot (1CC 50MHz QPSK 1 RB)

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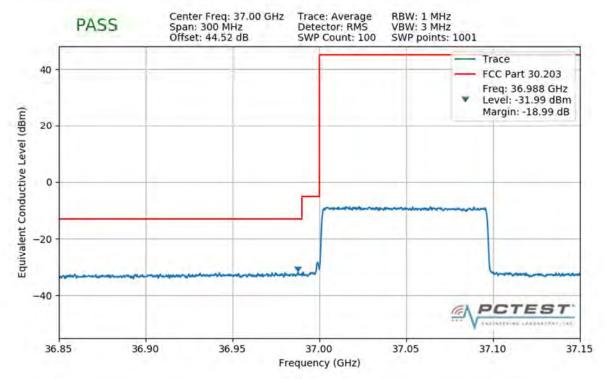
Plot 7-211. Lower Band Edge Plot (1CC 50MHz 16QAM 1 RB)



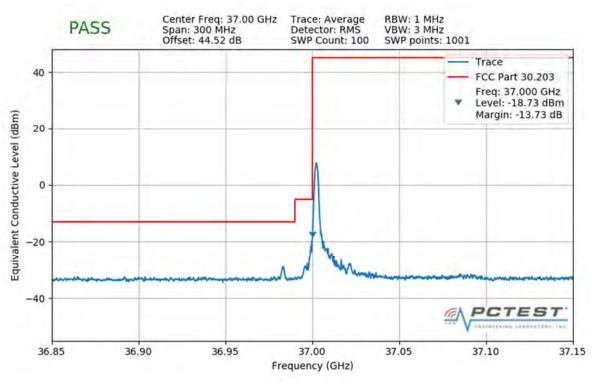
Plot 7-212. Lower Band Edge Plot (1CC 50MHz 64QAM 1 RB)

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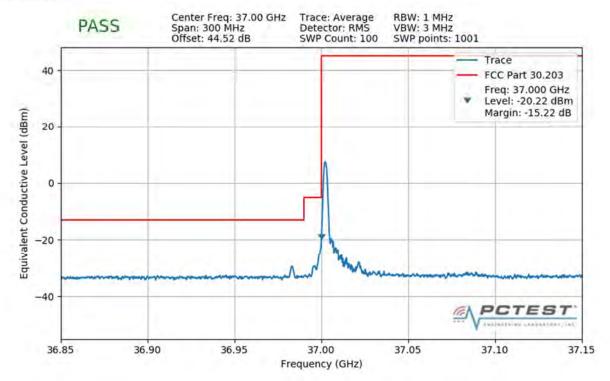
Plot 7-213. Lower Band Edge Plot (1CC 100MHz QPSK Full RB)



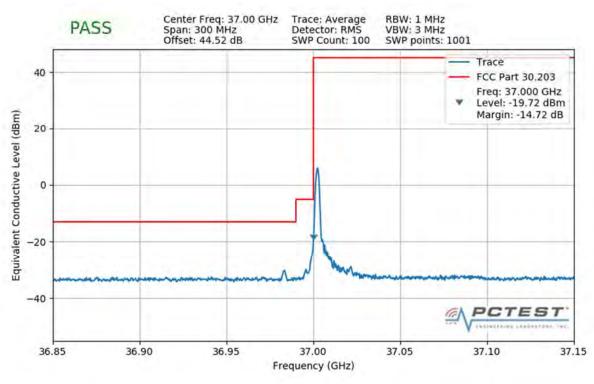
Plot 7-214. Lower Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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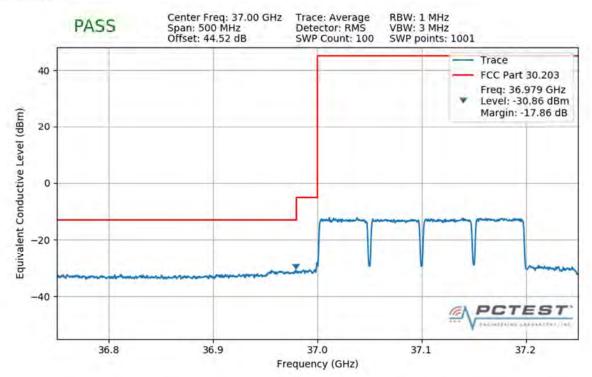
Plot 7-215. Lower Band Edge Plot (1CC 100MHz 16QAM 1 RB)



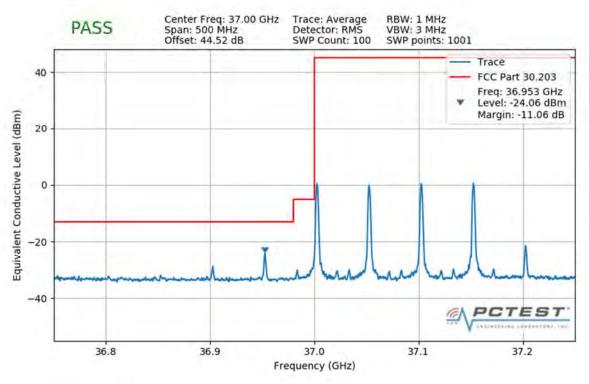
Plot 7-216. Lower Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The AMERICAN STREET OF STREET	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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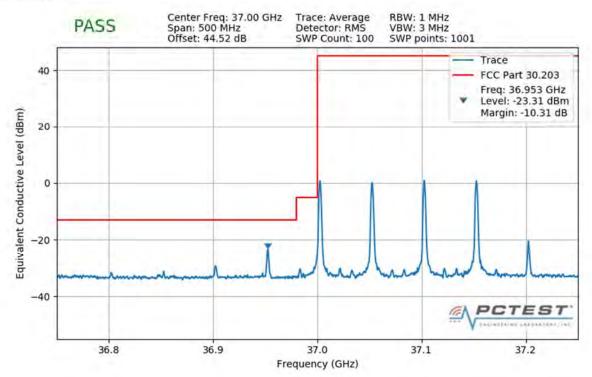
Plot 7-217. Lower Band Edge Plot (4CC 200MHz QPSK Full RB)



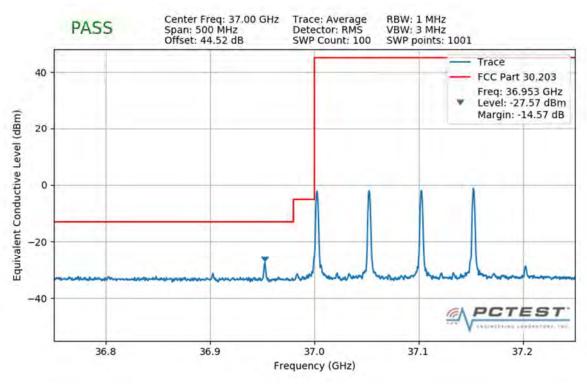
Plot 7-218. Lower Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The respective to a state of the true	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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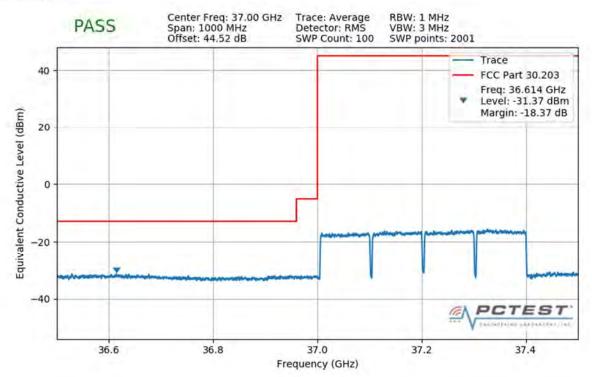
Plot 7-219. Lower Band Edge Plot (4CC 200MHz 16QAM 1 RB)



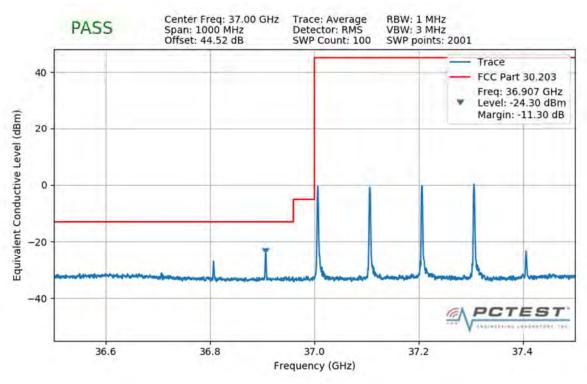
Plot 7-220. Lower Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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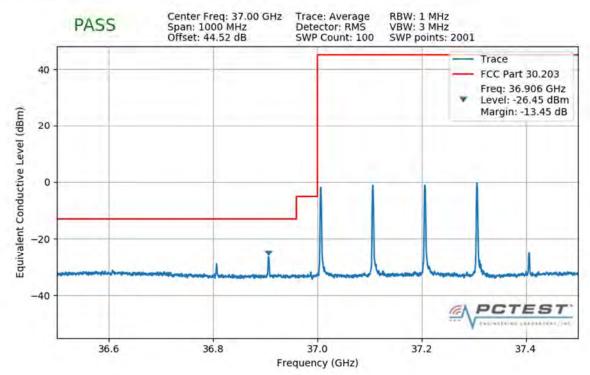
Plot 7-221. Lower Band Edge Plot (4CC 400MHz QPSK Full RB)



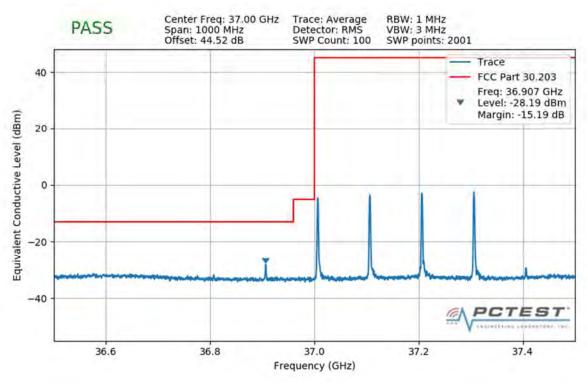
Plot 7-222. Lower Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The AMPLANTIA AND AND AND AND AND AND AND AND AND AN	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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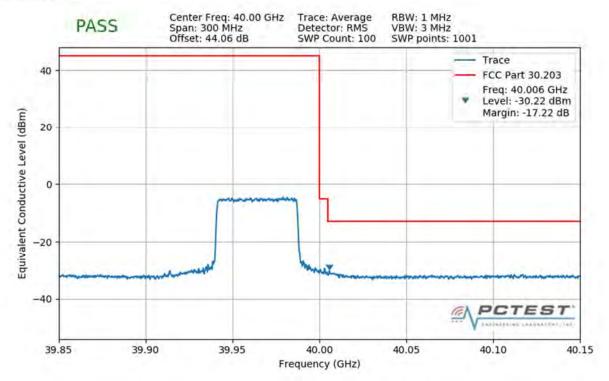
Plot 7-223. Lower Band Edge Plot (4CC 400MHz 16QAM 1 RB)



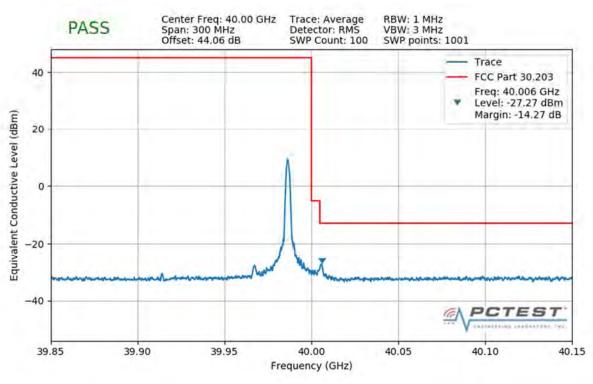
Plot 7-224. Lower Band Edge Plot (4CC 400MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The AMERICAN STREET OF STREET	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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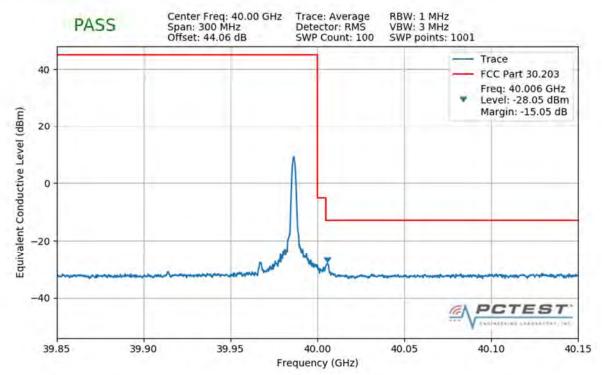
Plot 7-225. Upper Band Edge Plot (1CC 50MHz QPSK Full RB)



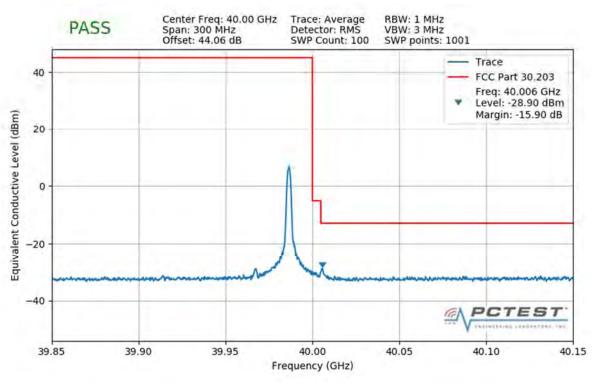
Plot 7-226. Upper Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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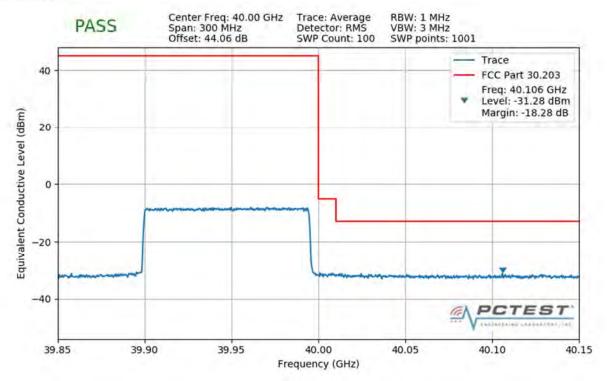
Plot 7-227. Upper Band Edge Plot (1CC 50MHz 16QAM 1 RB)



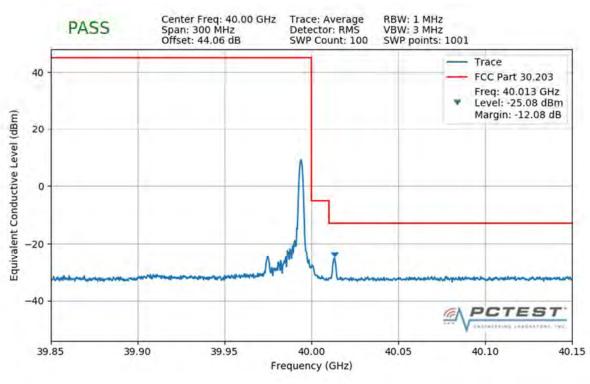
Plot 7-228. Upper Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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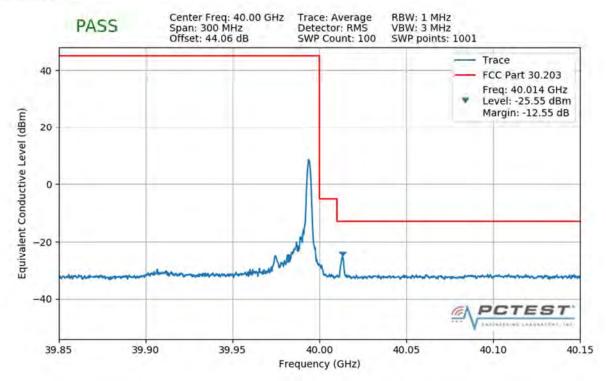
Plot 7-229. Upper Band Edge Plot (1CC 100MHz QPSK Full RB)



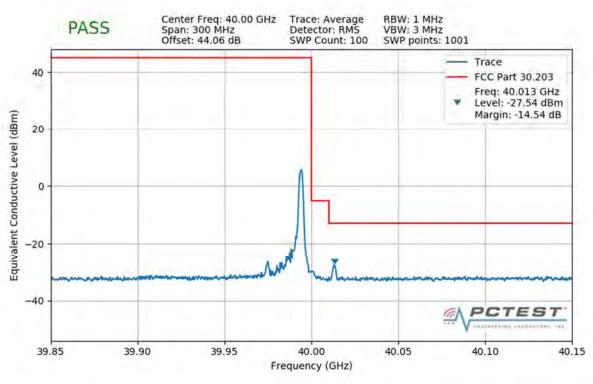
Plot 7-230. Upper Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The AMPLANTIA AND AND AND AND AND AND AND AND AND AN	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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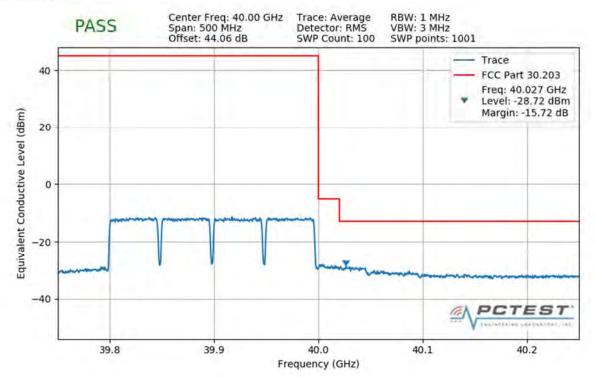
Plot 7-231. Upper Band Edge Plot (1CC 100MHz 16QAM 1 RB)



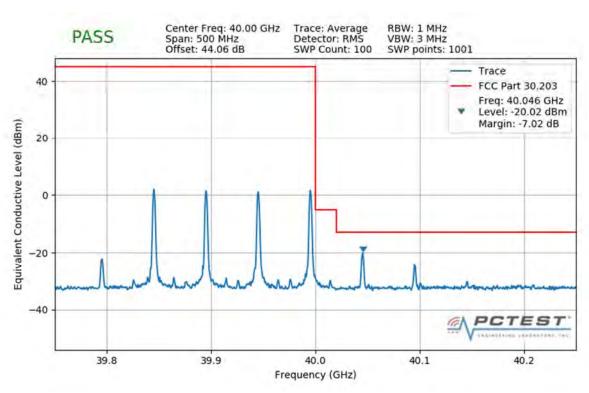
Plot 7-232. Upper Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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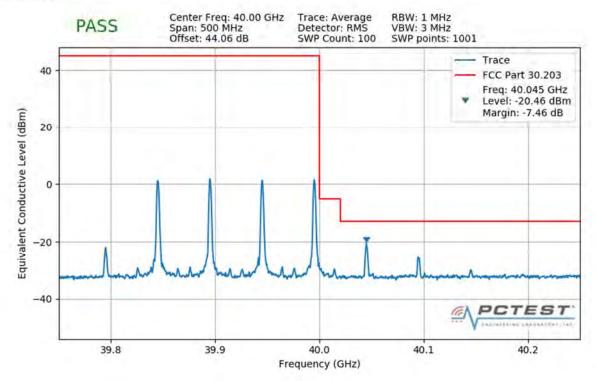
Plot 7-233. Upper Band Edge Plot (4CC 200MHz QPSK Full RB)



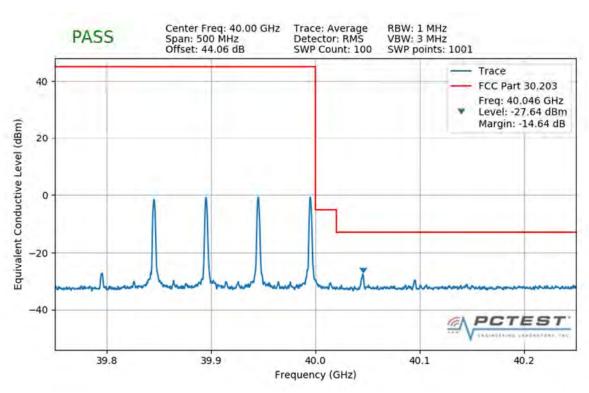
Plot 7-234. Upper Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The AMERICAN STREET OF STREET	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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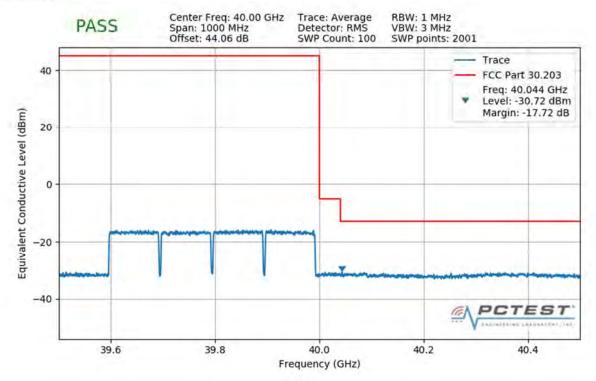
Plot 7-235. Upper Band Edge Plot (4CC 200MHz 16QAM 1 RB)



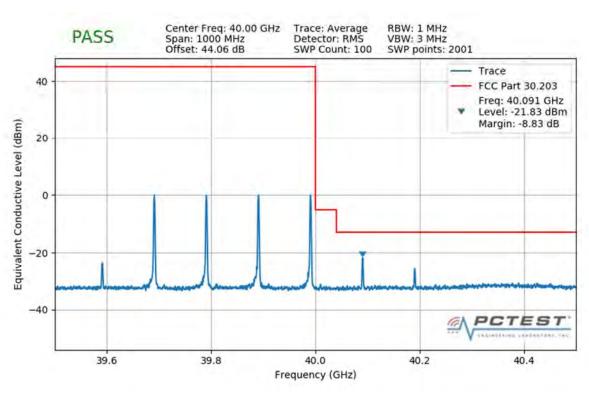
Plot 7-236. Upper Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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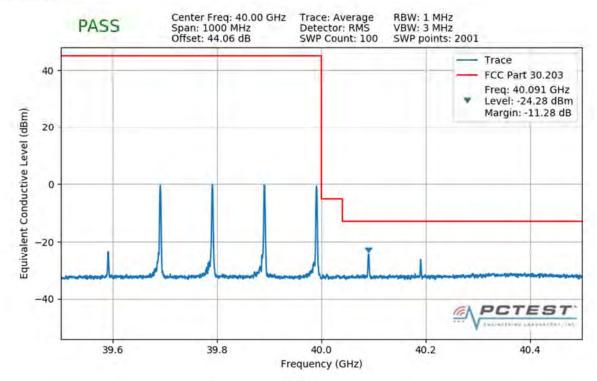
Plot 7-237. Upper Band Edge Plot (4CC 400MHz QPSK Full RB)



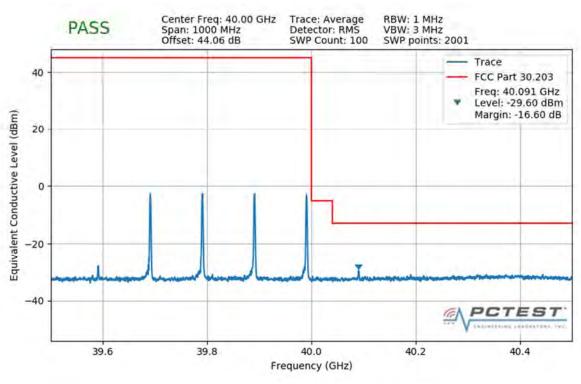
Plot 7-238. Upper Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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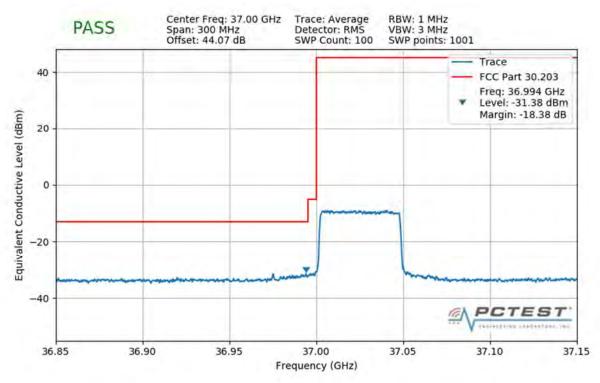
Plot 7-239. Upper Band Edge Plot (4CC 400MHz 16QAM 1 RB)



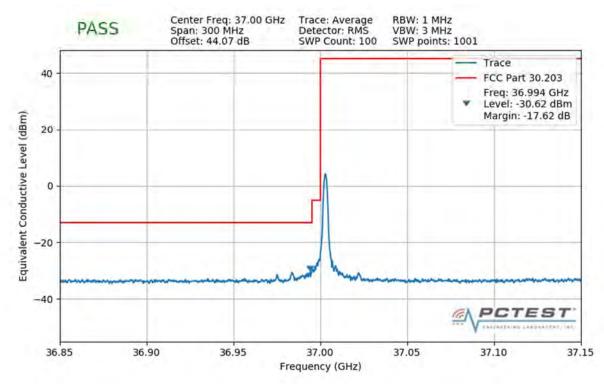
Plot 7-240. Upper Band Edge Plot (4CC 400MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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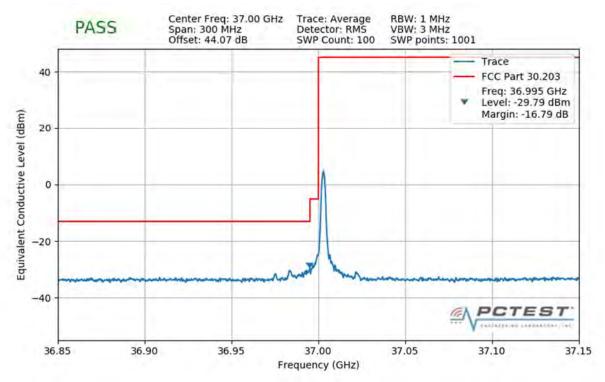
Plot 7-241. Lower Band Edge Plot (1CC 50MHz QPSK Full RB)



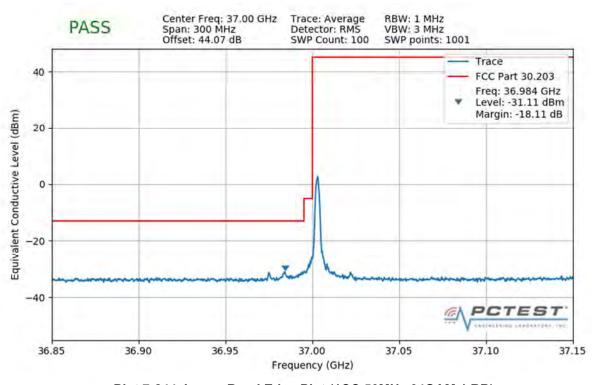
Plot 7-242. Lower Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977U	DETEST	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	SAMSONE	Approved by: Quality Manager
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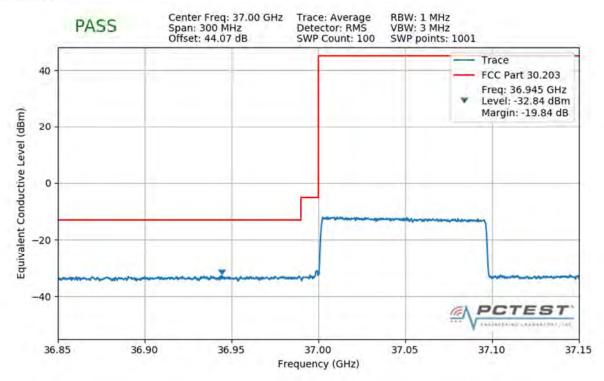
Plot 7-243. Lower Band Edge Plot (1CC 50MHz 16QAM 1 RB)



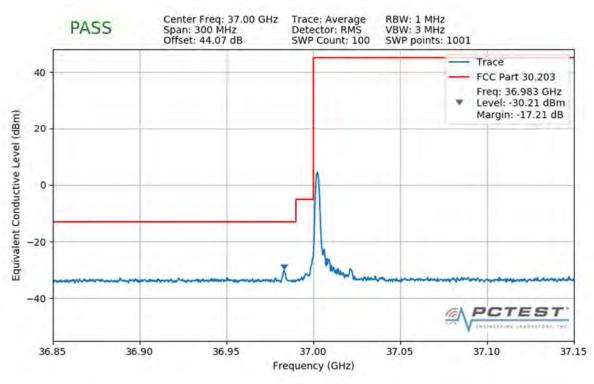
Plot 7-244. Lower Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The respective to a state of the true	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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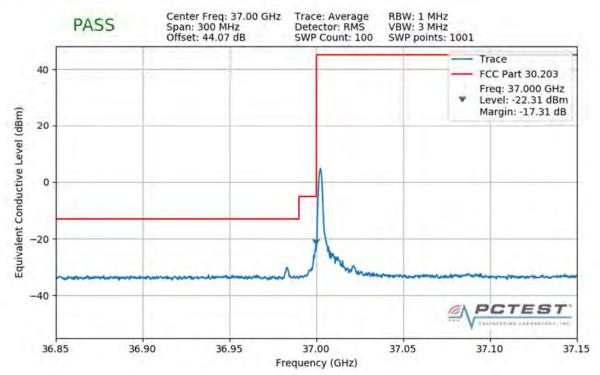
Plot 7-245. Lower Band Edge Plot (1CC 100MHz QPSK Full RB)



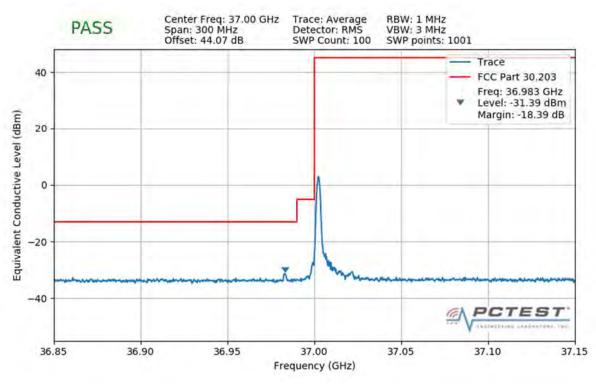
Plot 7-246. Lower Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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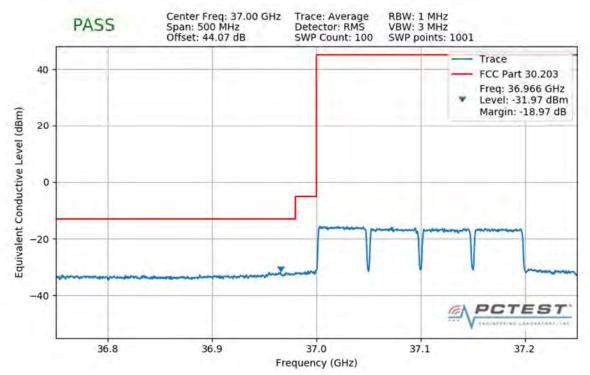
Plot 7-247. Lower Band Edge Plot (1CC 100MHz 16QAM 1 RB)



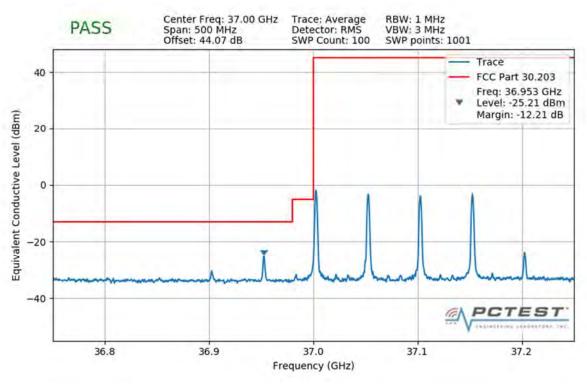
Plot 7-248. Lower Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The AMERICAN STREET OF STREET	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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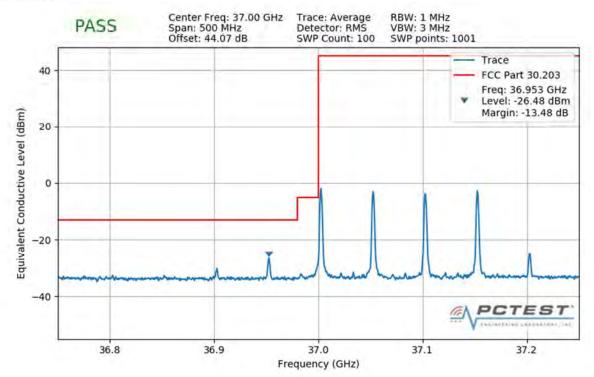
Plot 7-249. Lower Band Edge Plot (4CC 200MHz QPSK Full RB)



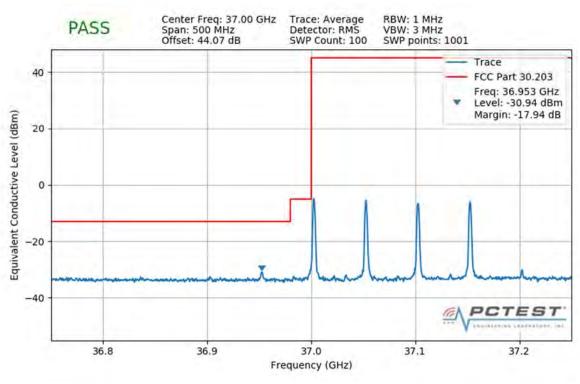
Plot 7-250. Lower Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The AMERICAN STREET OF STREET	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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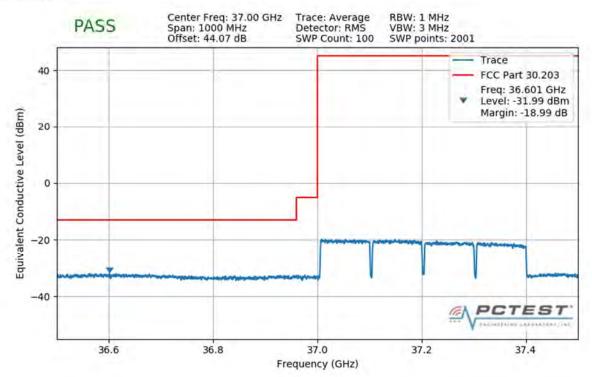
Plot 7-251. Lower Band Edge Plot (4CC 200MHz 16QAM 1 RB)



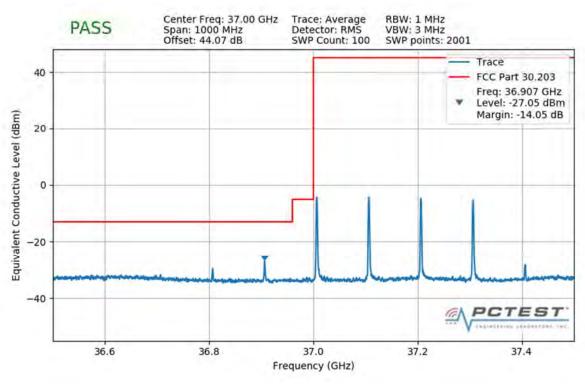
Plot 7-252. Lower Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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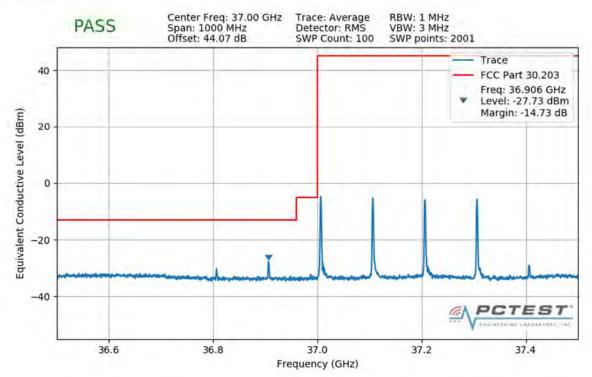
Plot 7-253. Lower Band Edge Plot (4CC 400MHz QPSK Full RB)



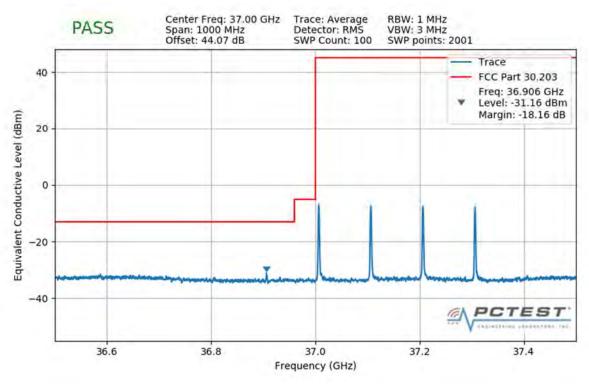
Plot 7-254. Lower Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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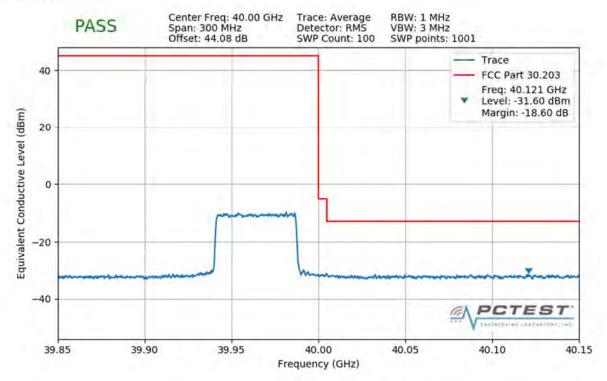
Plot 7-255. Lower Band Edge Plot (4CC 400MHz 16QAM 1 RB)



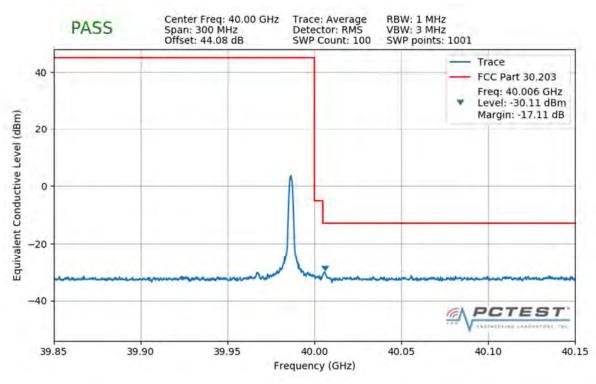
Plot 7-256. Lower Band Edge Plot (4CC 400MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The AMERICAN STREET OF STREET	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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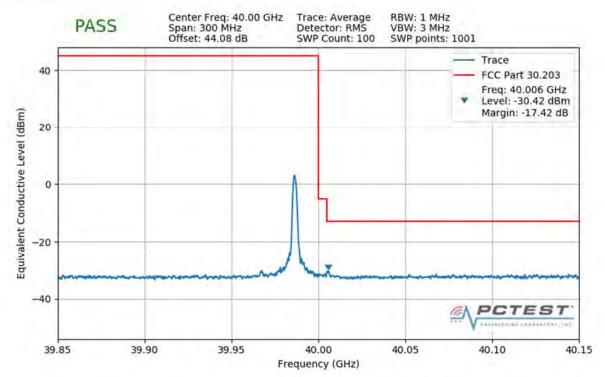
Plot 7-257. Upper Band Edge Plot (1CC 50MHz QPSK Full RB)



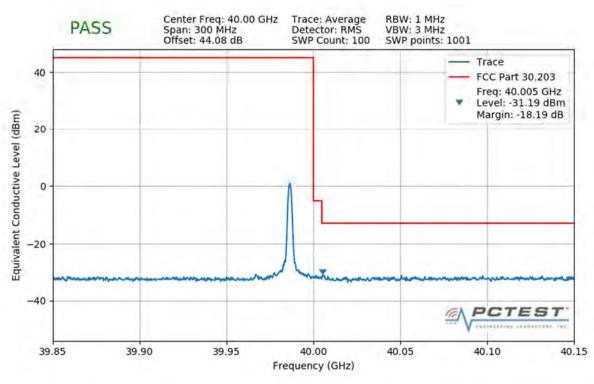
Plot 7-258. Upper Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The AMPLANTIA AND AND AND AND AND AND AND AND AND AN	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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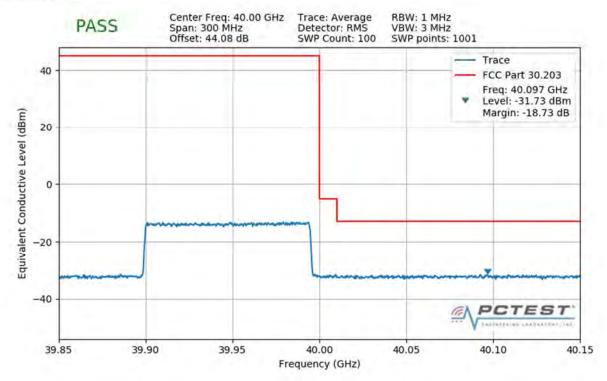
Plot 7-259. Upper Band Edge Plot (1CC 50MHz 16QAM 1 RB)



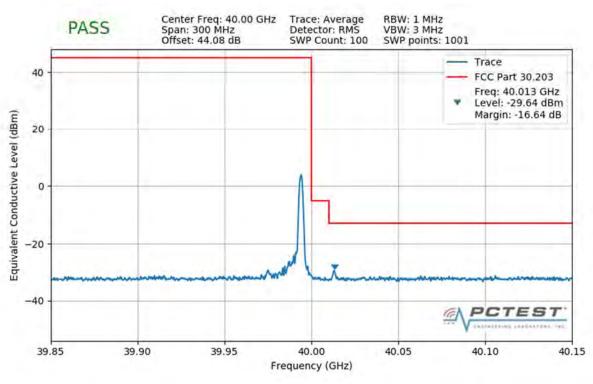
Plot 7-260. Upper Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The office is a fall to a	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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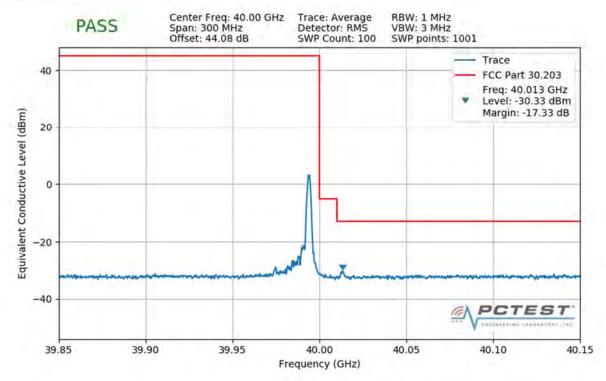
Plot 7-261. Upper Band Edge Plot (1CC 100MHz QPSK Full RB)



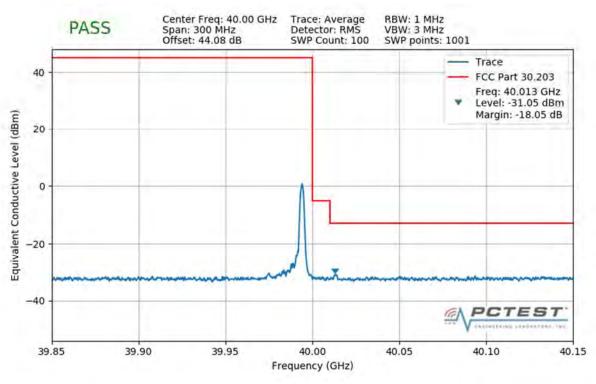
Plot 7-262. Upper Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The AMERICAN STREET OF STREET	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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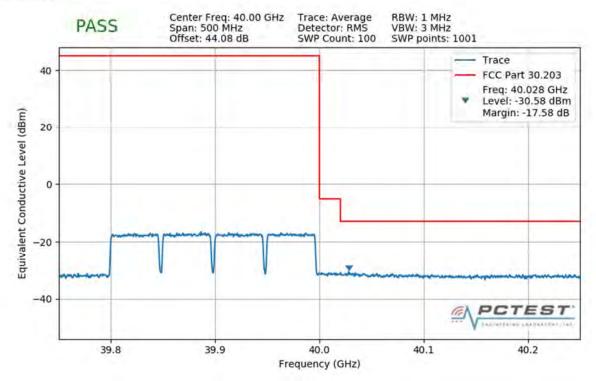
Plot 7-263. Upper Band Edge Plot (1CC 100MHz 16QAM 1 RB)



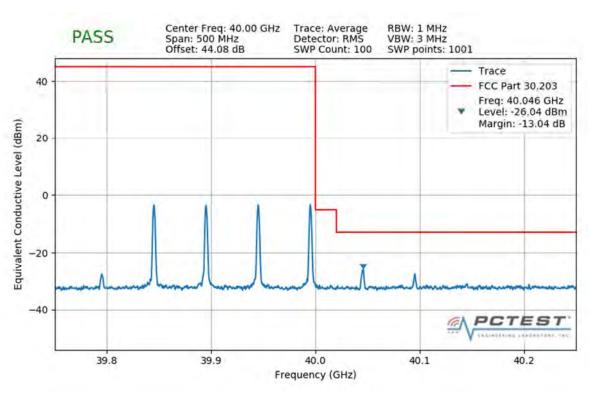
Plot 7-264. Upper Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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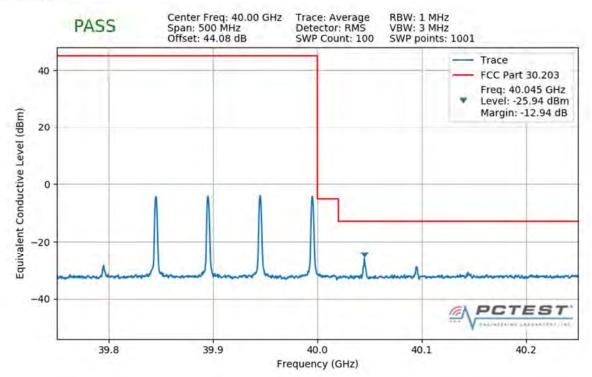
Plot 7-265. Upper Band Edge Plot (4CC 200MHz QPSK Full RB)



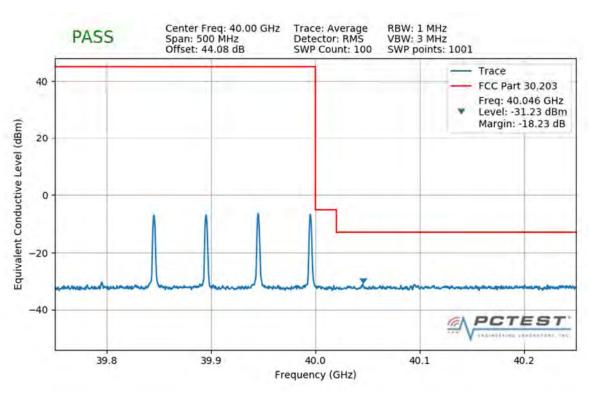
Plot 7-266. Upper Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The respective to a state of the true	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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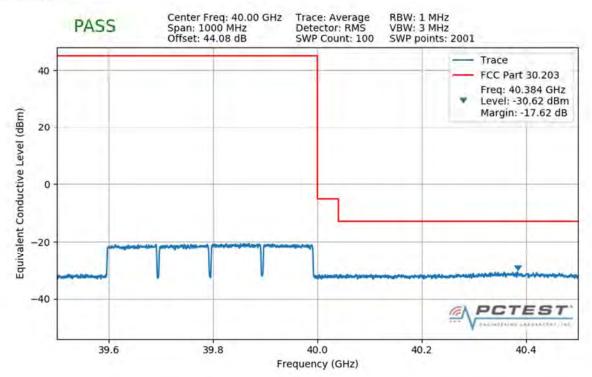
Plot 7-267. Upper Band Edge Plot (4CC 200MHz 16QAM 1 RB)



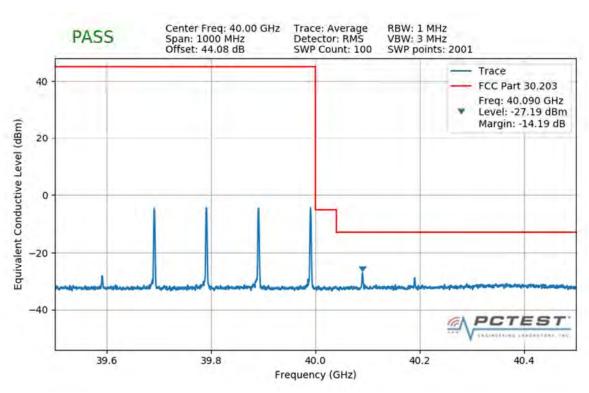
Plot 7-268. Upper Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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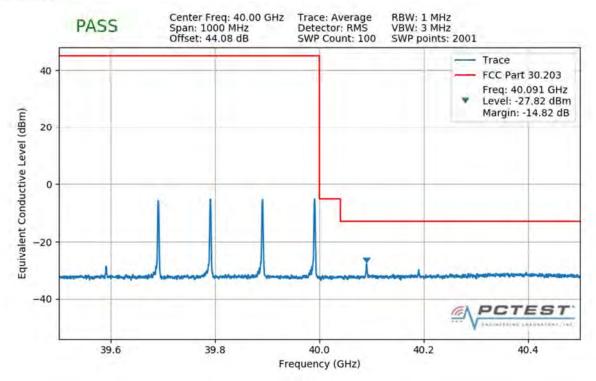
Plot 7-269. Upper Band Edge Plot (4CC 400MHz QPSK Full RB)



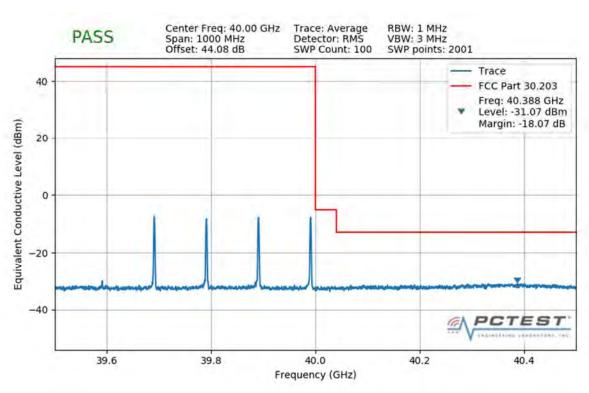
Plot 7-270. Upper Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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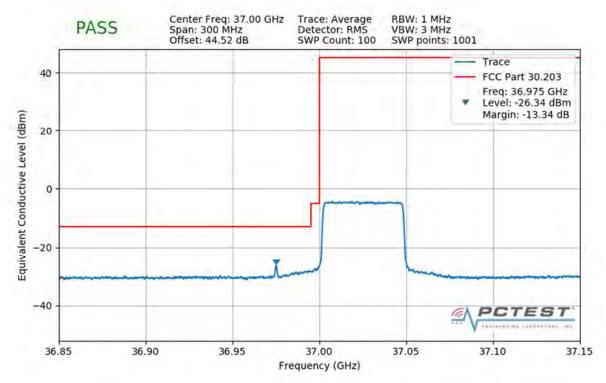
Plot 7-271. Upper Band Edge Plot (4CC 400MHz 16QAM 1 RB)



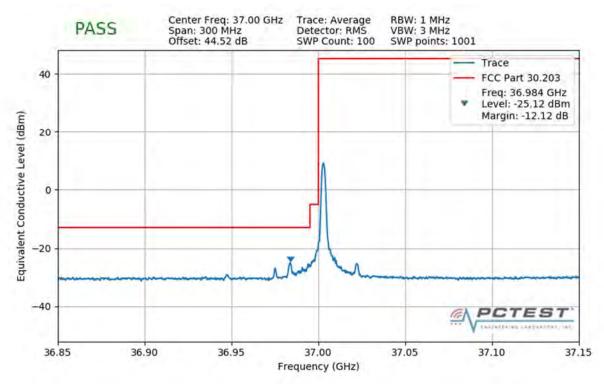
Plot 7-272. Upper Band Edge Plot (4CC 400MHz 64QAM 1 RB)

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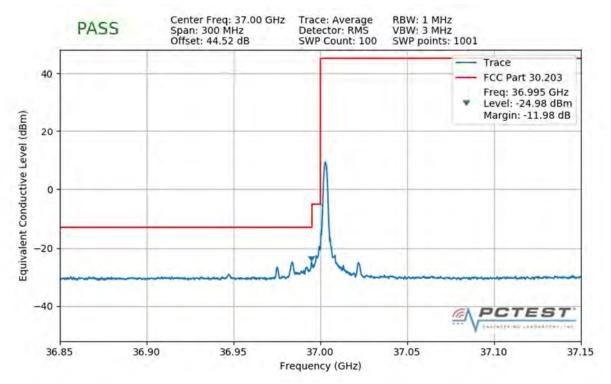
Plot 7-273. Lower Band Edge Plot (1CC 50MHz QPSK Full RB)



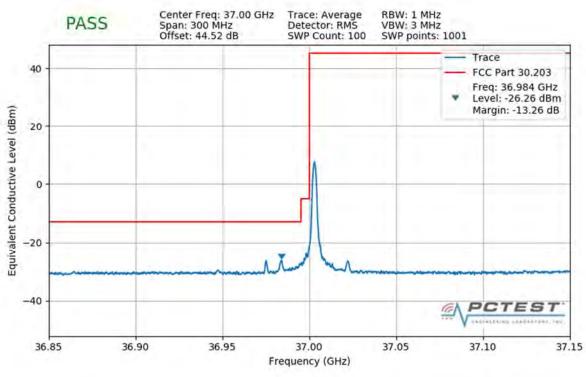
Plot 7-274. Lower Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977U	PETEST	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	NE	Approved by: Quality Manager
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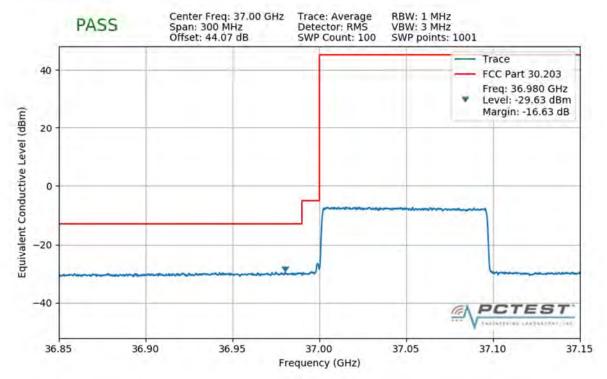
Plot 7-275. Lower Band Edge Plot (1CC 50MHz 16QAM 1 RB)



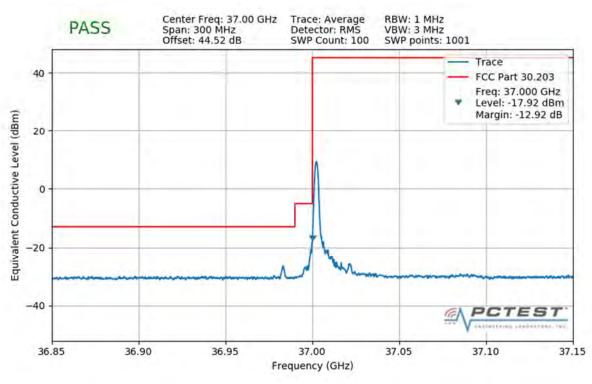
Plot 7-276. Lower Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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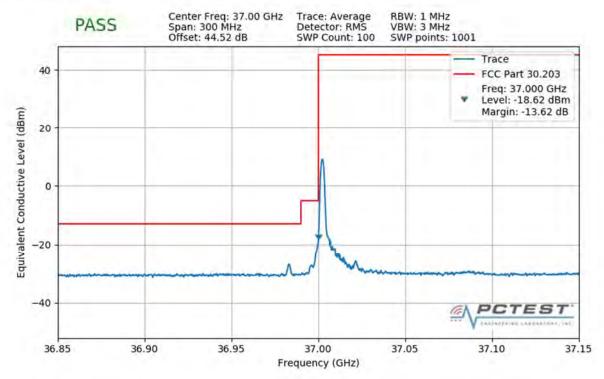
Plot 7-277. Lower Band Edge Plot (1CC 100MHz QPSK Full RB)



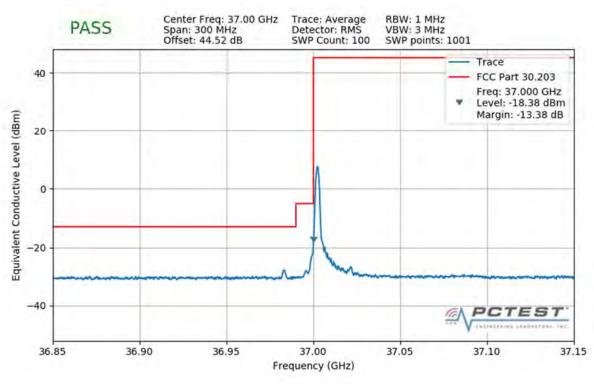
Plot 7-278. Lower Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The AMPLANTIA AND AND AND AND AND AND AND AND AND AN	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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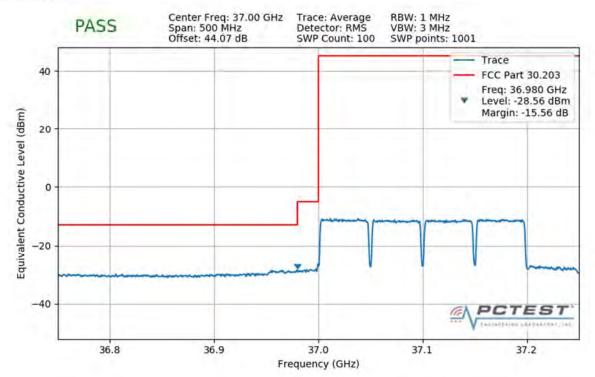
Plot 7-279. Lower Band Edge Plot (1CC 100MHz 16QAM 1 RB)



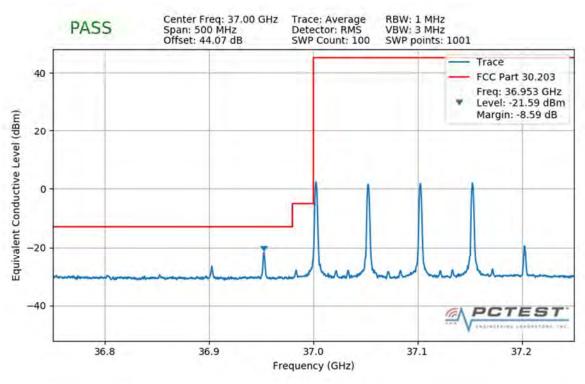
Plot 7-280. Lower Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The office is a fall to a	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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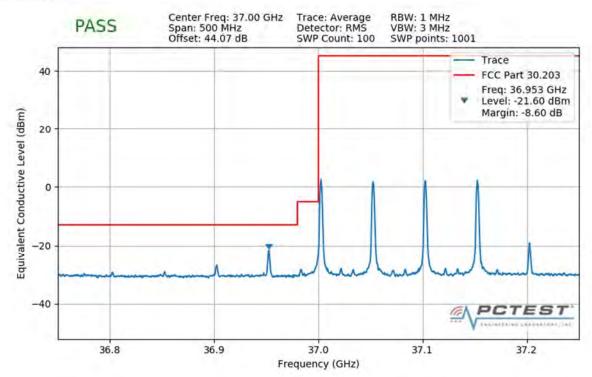
Plot 7-281. Lower Band Edge Plot (4CC 200MHz QPSK Full RB)



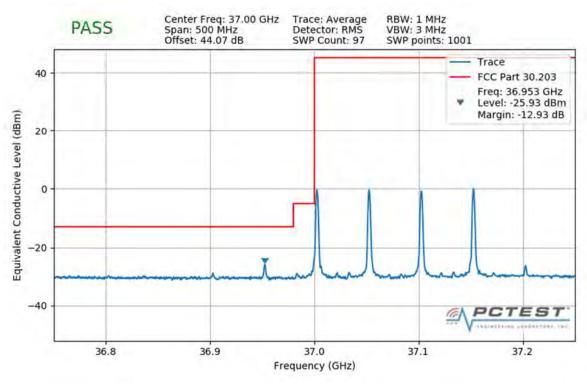
Plot 7-282. Lower Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The office is a still a time type in	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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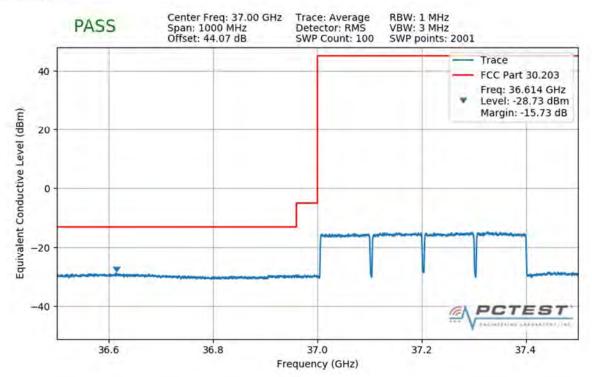
Plot 7-283. Lower Band Edge Plot (4CC 200MHz 16QAM 1 RB)



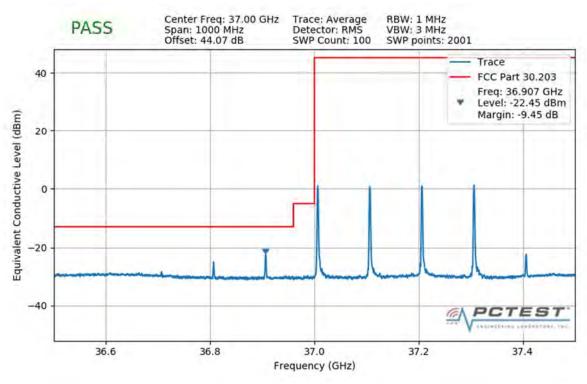
Plot 7-284. Lower Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The AMERICAN STREET OF STREET	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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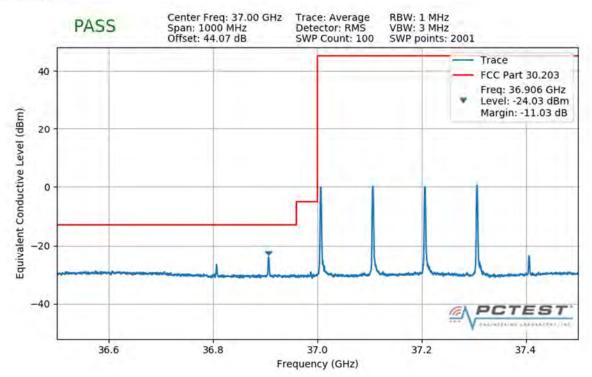
Plot 7-285. Lower Band Edge Plot (4CC 400MHz QPSK Full RB)



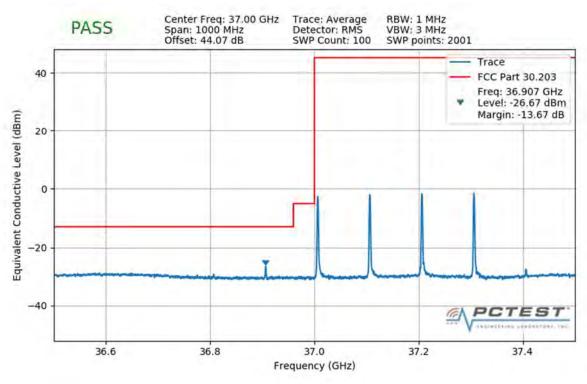
Plot 7-286. Lower Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The office is a still a time type in	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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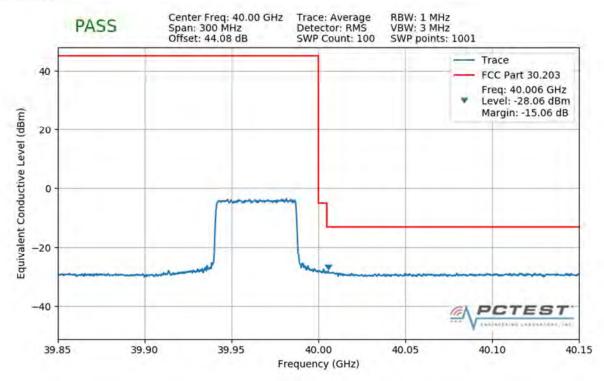
Plot 7-287. Lower Band Edge Plot (4CC 400MHz 16QAM 1 RB)



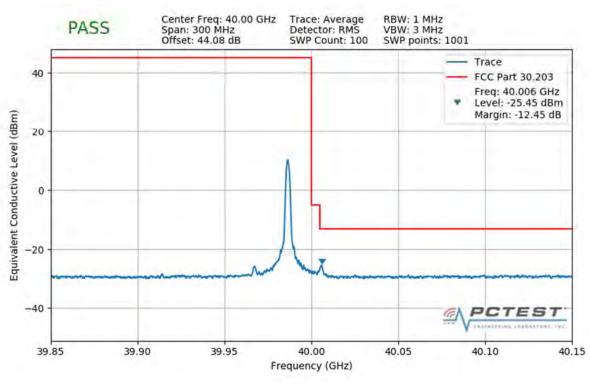
Plot 7-288. Lower Band Edge Plot (4CC 400MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The office is a still a time type in	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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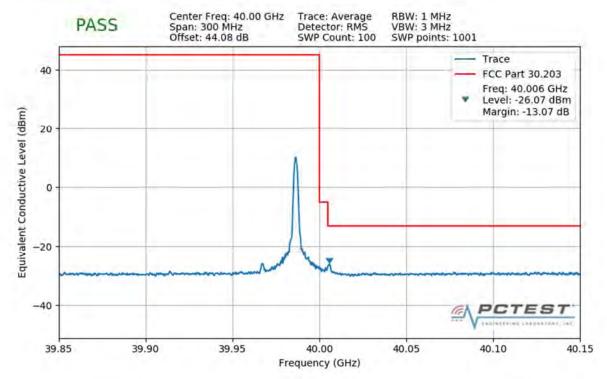
Plot 7-289. Upper Band Edge Plot (1CC 50MHz QPSK Full RB)



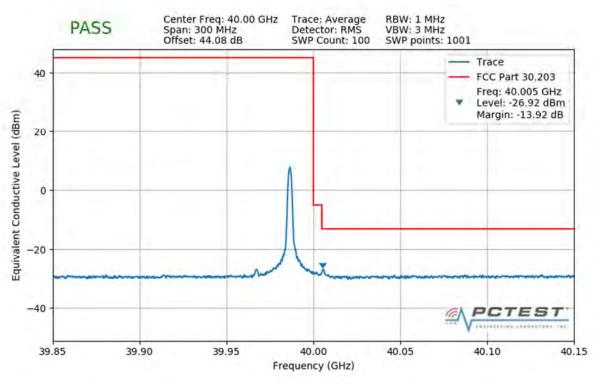
Plot 7-290. Upper Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The office is a still a time type in	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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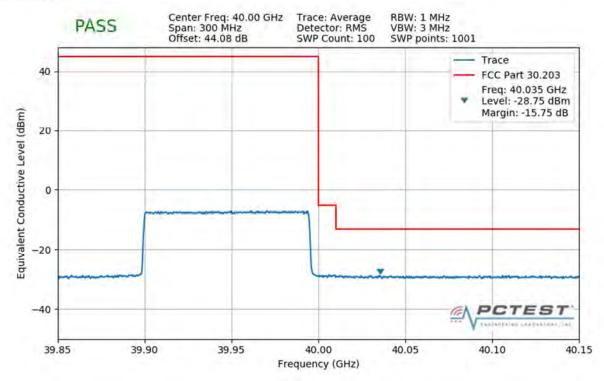
Plot 7-291. Upper Band Edge Plot (1CC 50MHz 16QAM 1 RB)



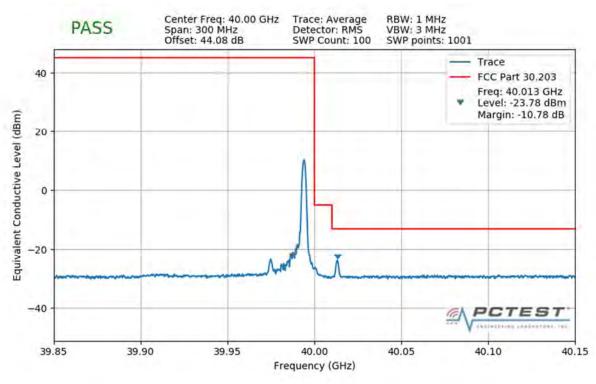
Plot 7-292. Upper Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The respective to a state of the true	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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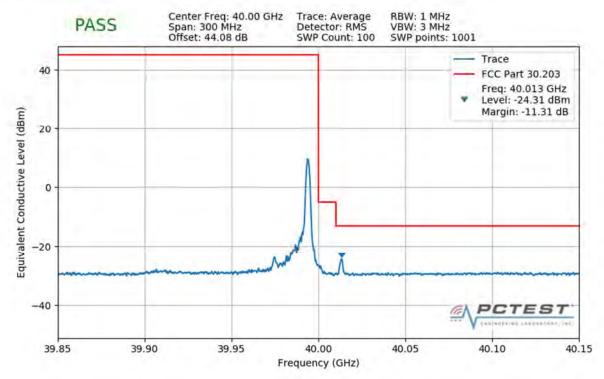
Plot 7-293. Upper Band Edge Plot (1CC 100MHz QPSK Full RB)



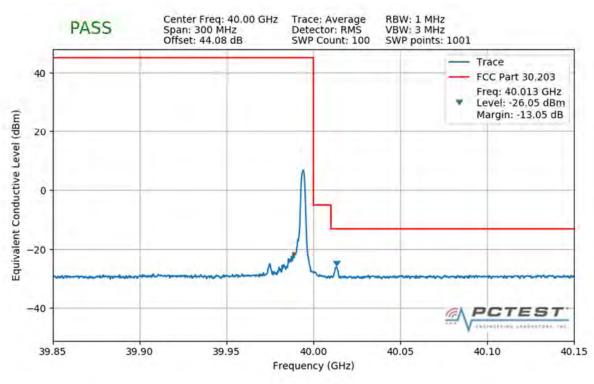
Plot 7-294. Upper Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The office is a still a time type in	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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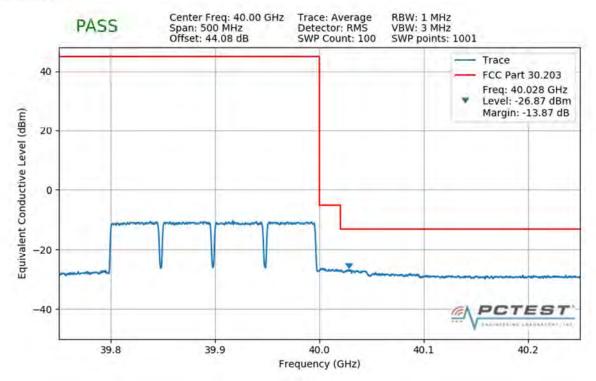
Plot 7-295. Upper Band Edge Plot (1CC 100MHz 16QAM 1 RB)



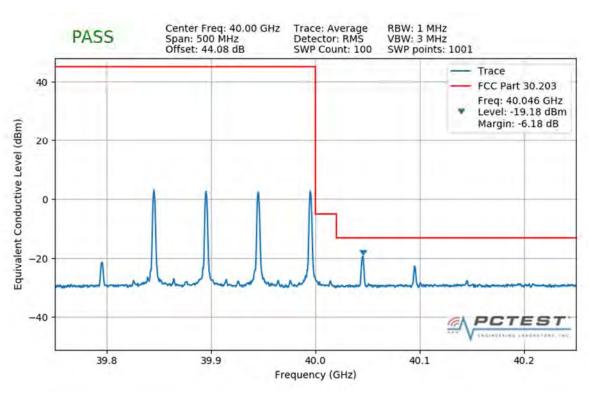
Plot 7-296. Upper Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The office is a fall to a	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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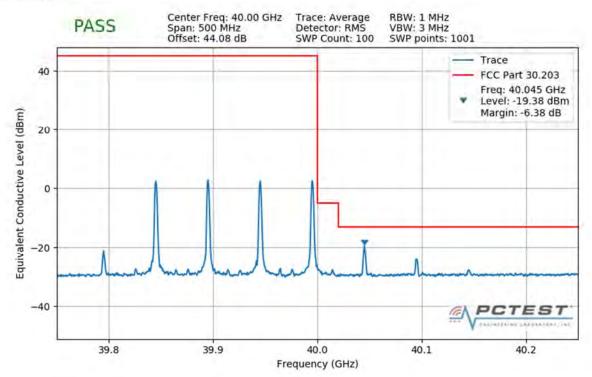
Plot 7-297. Upper Band Edge Plot (4CC 200MHz QPSK Full RB)



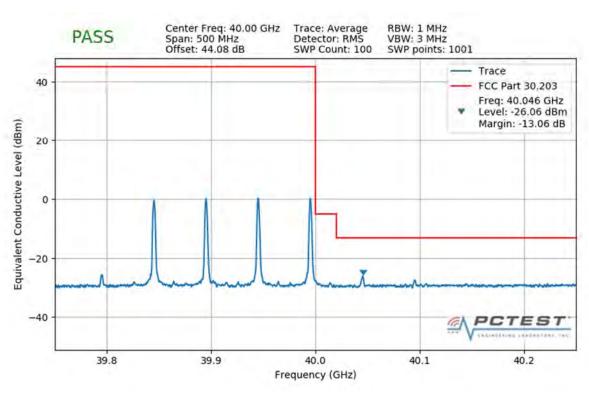
Plot 7-298. Upper Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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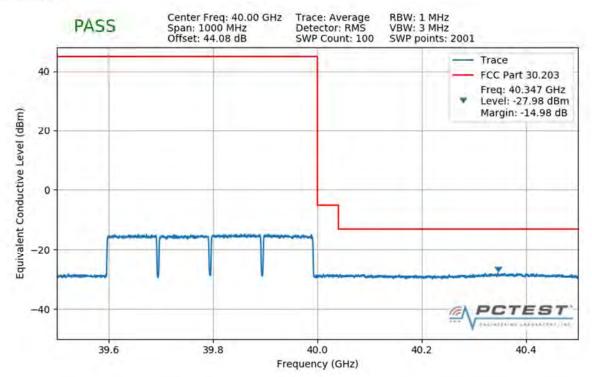
Plot 7-299. Upper Band Edge Plot (4CC 200MHz 16QAM 1 RB)



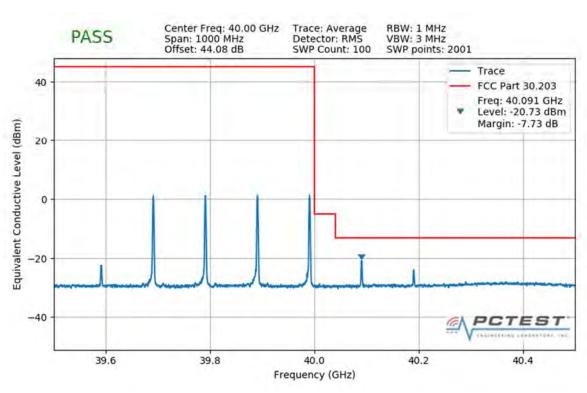
Plot 7-300. Upper Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The respective to a state of the true	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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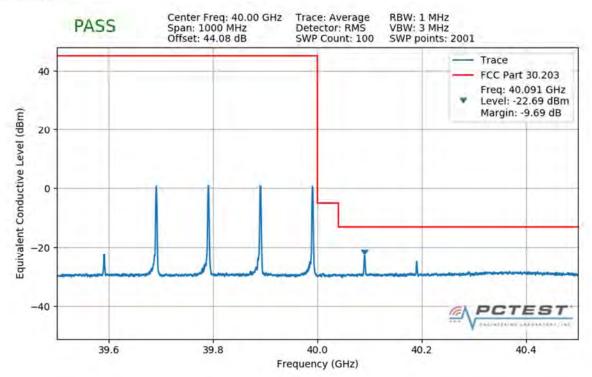
Plot 7-301. Upper Band Edge Plot (4CC 400MHz QPSK Full RB)



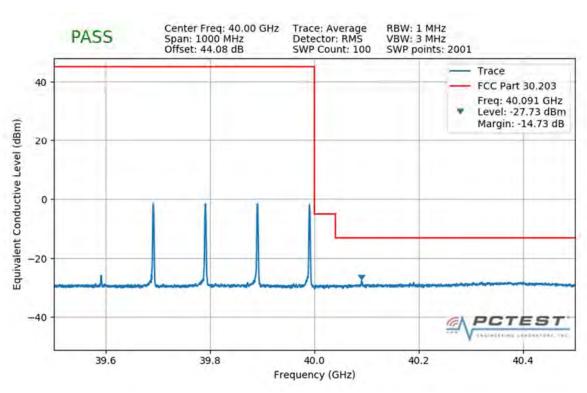
Plot 7-302. Upper Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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Plot 7-303. Upper Band Edge Plot (4CC 400MHz 16QAM 1 RB)

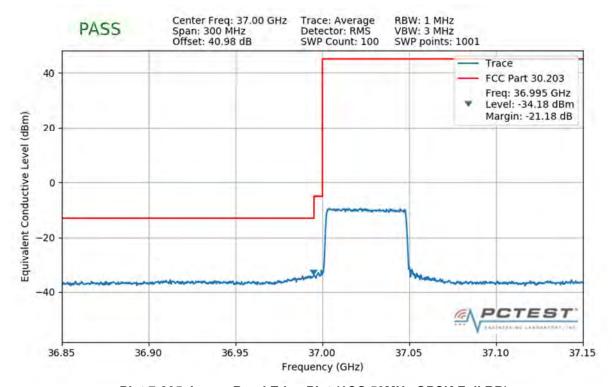


Plot 7-304. Upper Band Edge Plot (4CC 400MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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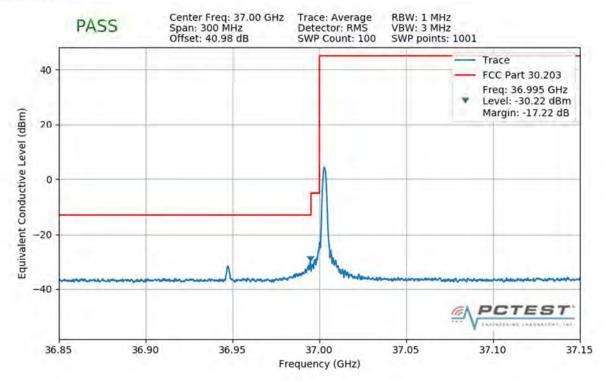
## 7.5.3 J Patch Band Edge H Beam



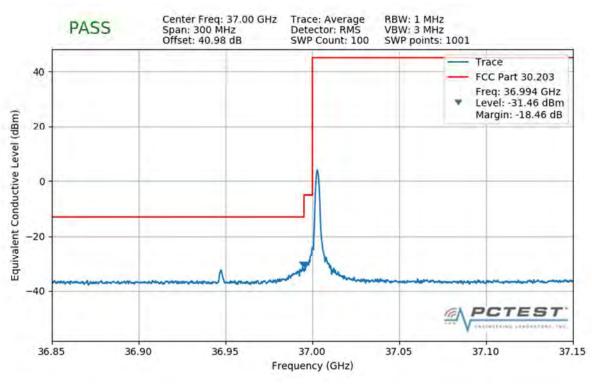
Plot 7-305. Lower Band Edge Plot (1CC 50MHz QPSK Full RB)

FCC ID: A3LSMG977U	The AMERICAN STREET OF STREET	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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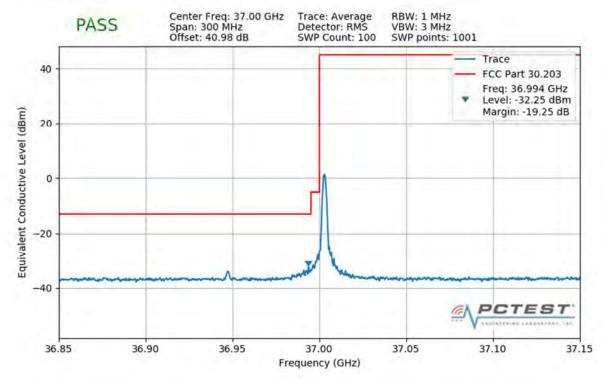
Plot 7-306. Lower Band Edge Plot (1CC 50MHz QPSK 1 RB)



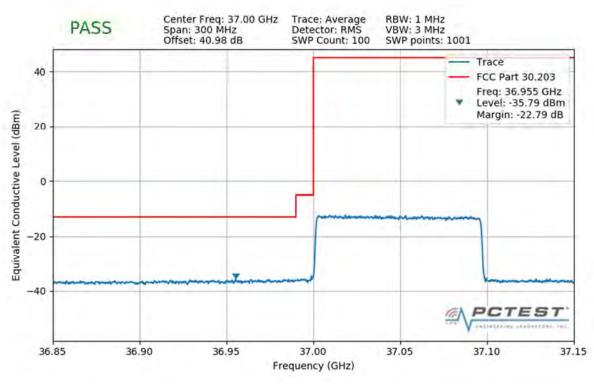
Plot 7-307. Lower Band Edge Plot (1CC 50MHz 16QAM 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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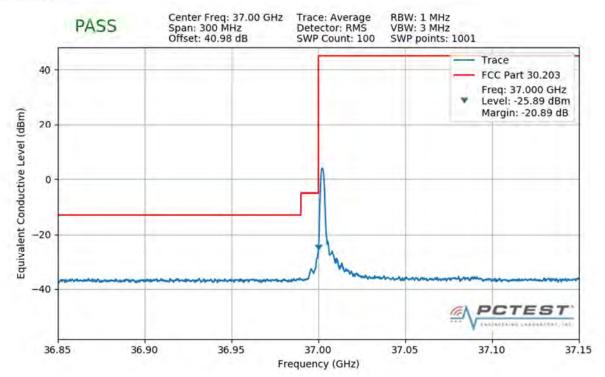
Plot 7-308. Lower Band Edge Plot (1CC 50MHz 64QAM 1 RB)



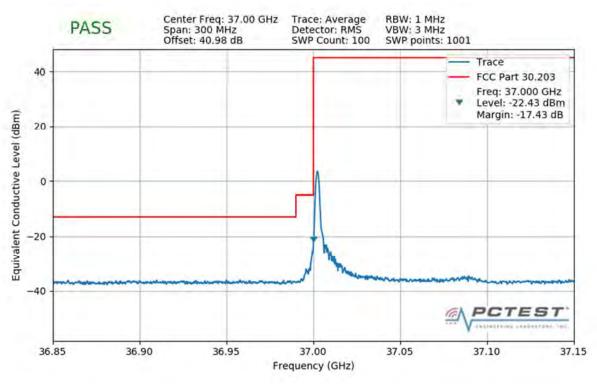
Plot 7-309. Lower Band Edge Plot (1CC 100MHz QPSK Full RB)

FCC ID: A3LSMG977U	The AMERICAN STREET OF STREET	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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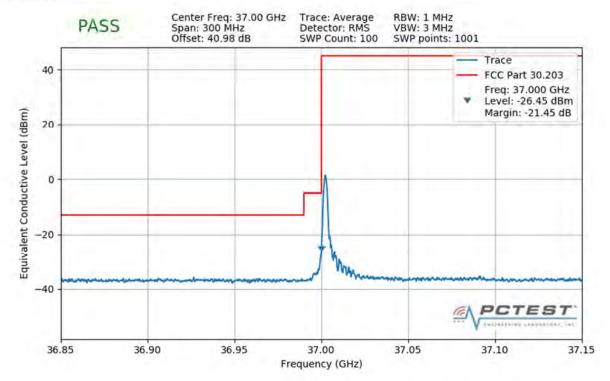
Plot 7-310. Lower Band Edge Plot (1CC 100MHz QPSK 1 RB)



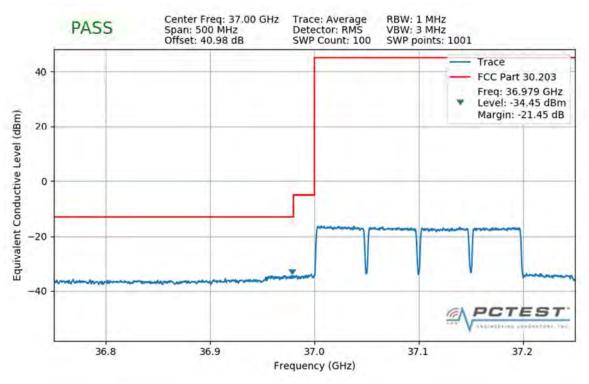
Plot 7-311. Lower Band Edge Plot (1CC 100MHz 16QAM 1 RB)

FCC ID: A3LSMG977U	The AMERICAN STREET OF STREET	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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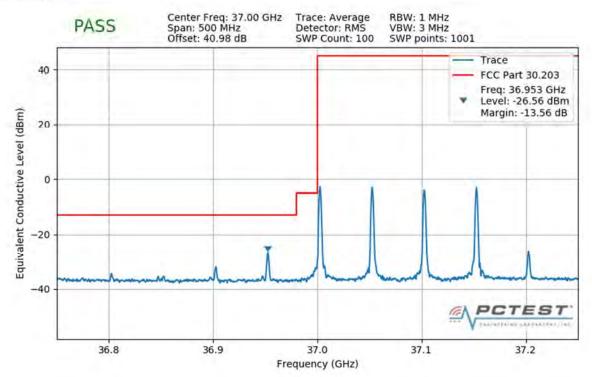
Plot 7-312. Lower Band Edge Plot (1CC 100MHz 64QAM 1 RB)



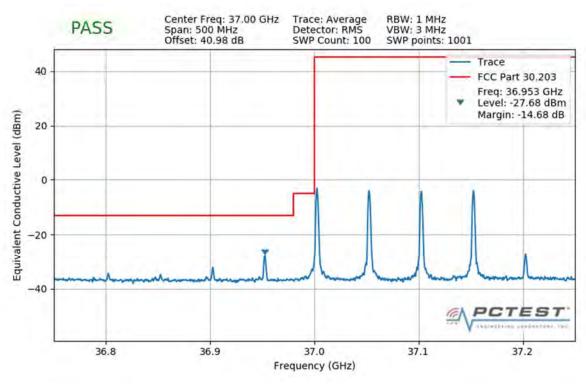
Plot 7-313. Lower Band Edge Plot (4CC 200MHz QPSK Full RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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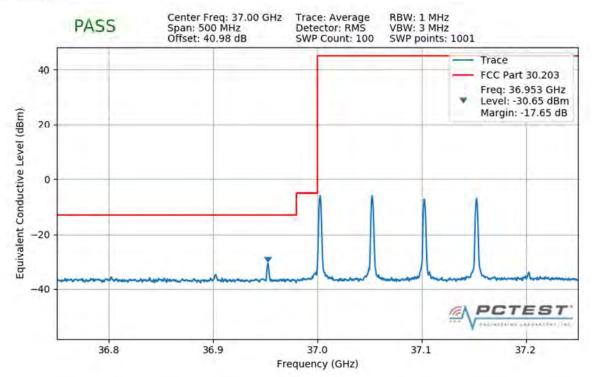
Plot 7-314. Lower Band Edge Plot (4CC 200MHz QPSK 1 RB)



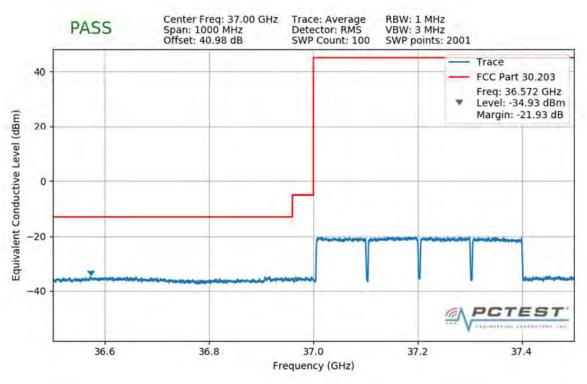
Plot 7-315. Lower Band Edge Plot (4CC 200MHz 16QAM 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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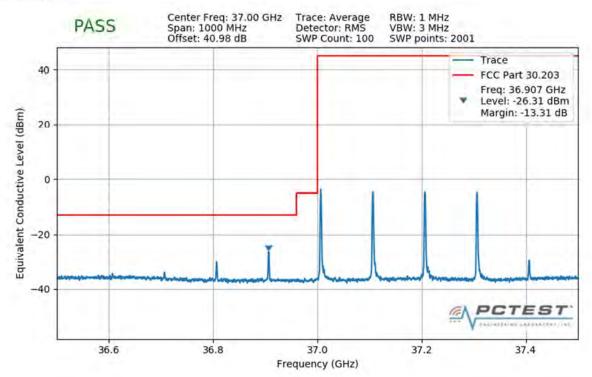
Plot 7-316. Lower Band Edge Plot (4CC 200MHz 64QAM 1 RB)



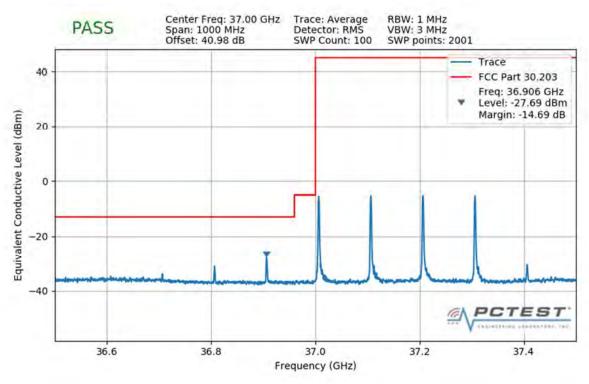
Plot 7-317. Lower Band Edge Plot (4CC 400MHz QPSK Full RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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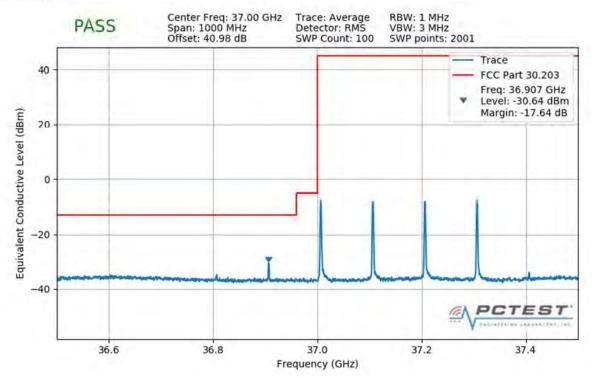
Plot 7-318. Lower Band Edge Plot (4CC 400MHz QPSK 1 RB)



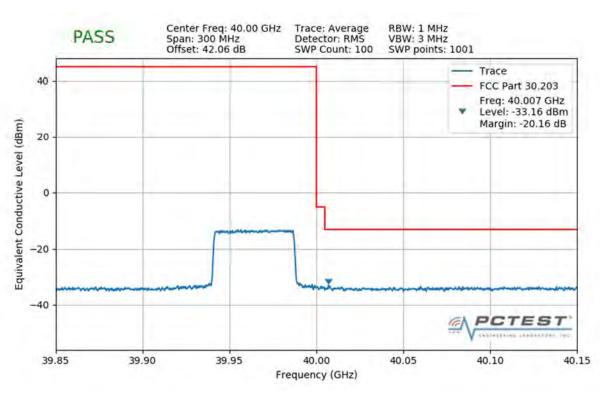
Plot 7-319. Lower Band Edge Plot (4CC 400MHz 16QAM 1 RB)

FCC ID: A3LSMG977U	The respective to a state of the true	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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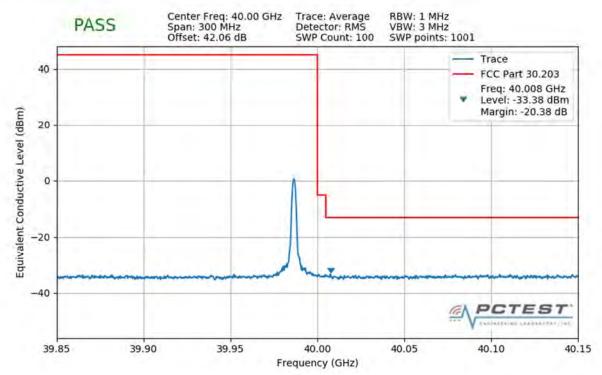
Plot 7-320. Lower Band Edge Plot (4CC 400MHz 64QAM 1 RB)



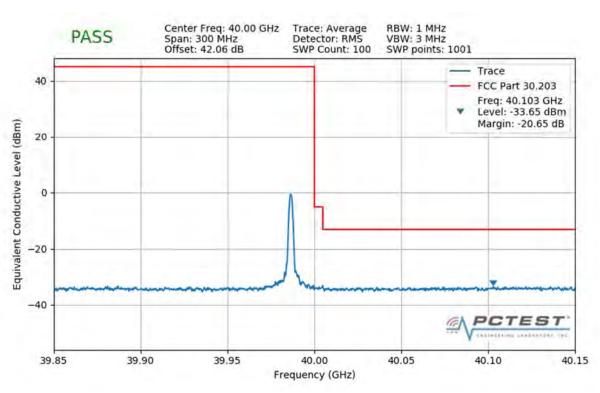
Plot 7-321. Upper Band Edge Plot (1CC 50MHz QPSK Full RB)

FCC ID: A3LSMG977U	The AMERICAN STREET OF STREET	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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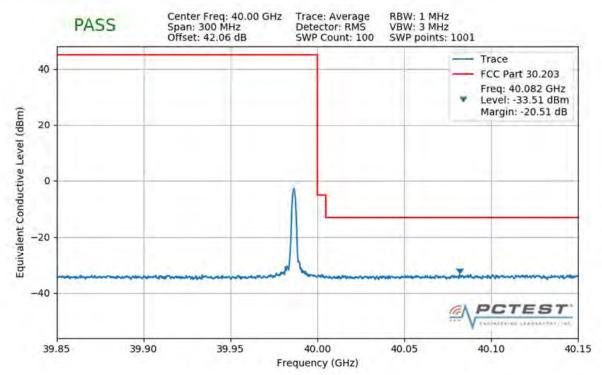
Plot 7-322. Upper Band Edge Plot (1CC 50MHz QPSK 1 RB)



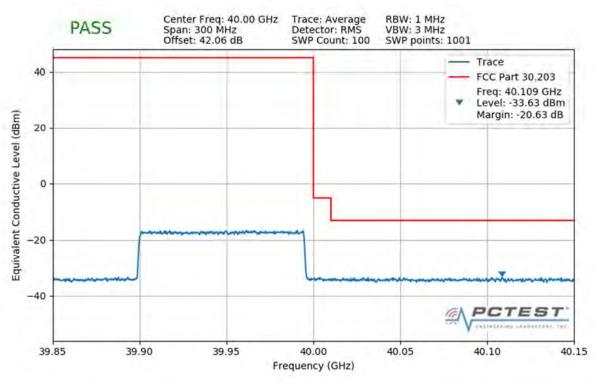
Plot 7-323. Upper Band Edge Plot (1CC 50MHz 16QAM 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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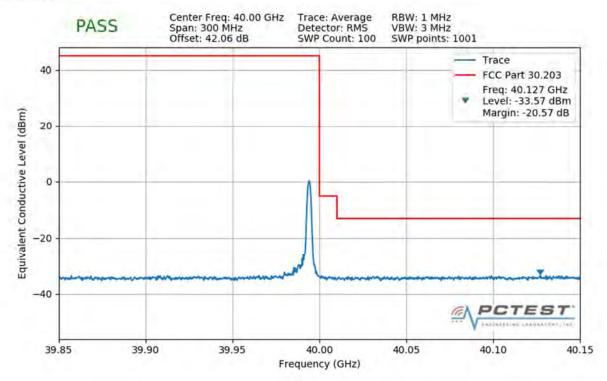
Plot 7-324. Upper Band Edge Plot (1CC 50MHz 64QAM 1 RB)



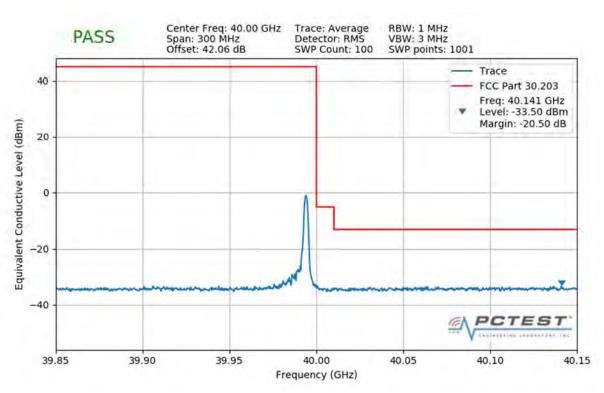
Plot 7-325. Upper Band Edge Plot (1CC 100MHz QPSK Full RB)

FCC ID: A3LSMG977U	The AMPLANTIA AND AND AND AND AND AND AND AND AND AN	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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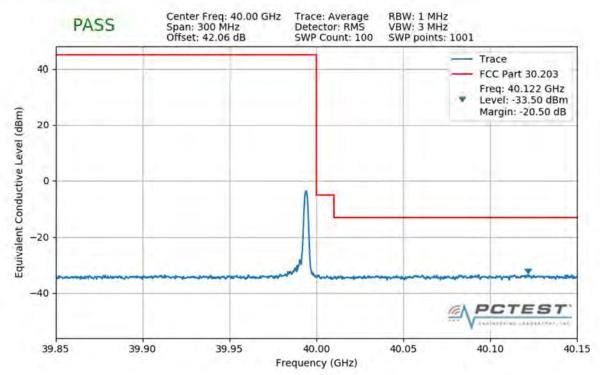
Plot 7-326. Upper Band Edge Plot (1CC 100MHz QPSK 1 RB)



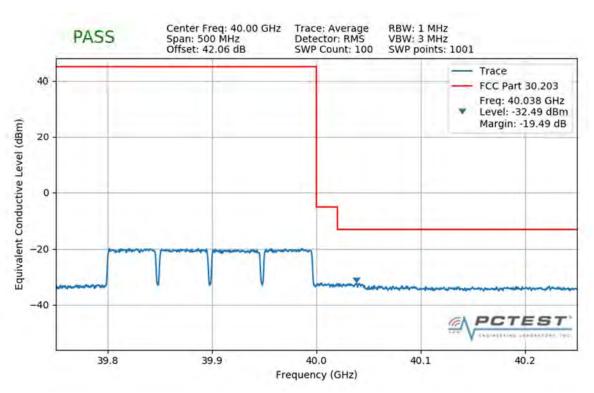
Plot 7-327. Upper Band Edge Plot (1CC 100MHz 16QAM 1 RB)

FCC ID: A3LSMG977U	The AMERICAN STREET OF STREET	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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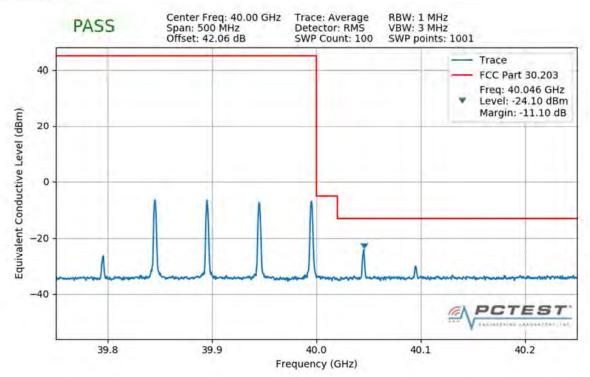
Plot 7-328. Upper Band Edge Plot (1CC 100MHz 64QAM 1 RB)



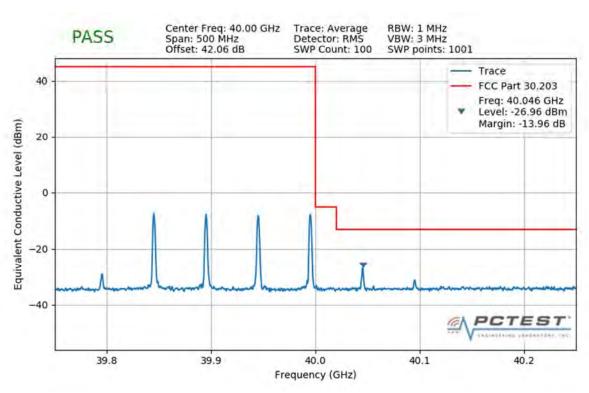
Plot 7-329. Upper Band Edge Plot (4CC 200MHz QPSK Full RB)

FCC ID: A3LSMG977U	The AMERICAN STREET OF STREET	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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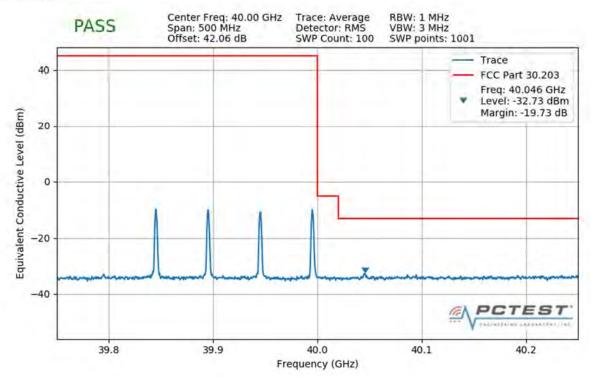
Plot 7-330. Upper Band Edge Plot (4CC 200MHz QPSK 1 RB)



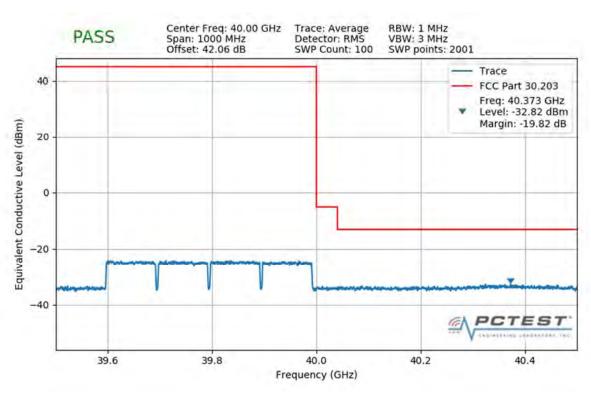
Plot 7-331. Upper Band Edge Plot (4CC 200MHz 16QAM 1 RB)

FCC ID: A3LSMG977U	The respective to a state of the true	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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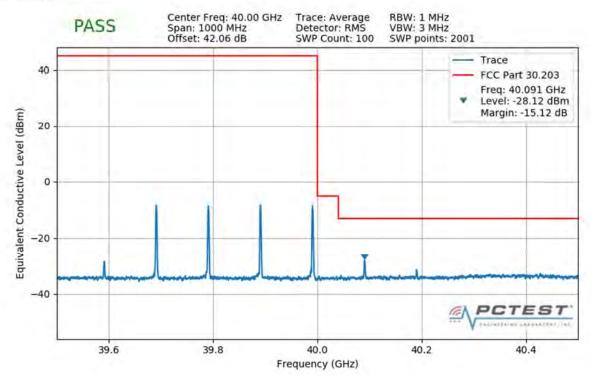
Plot 7-332. Upper Band Edge Plot (4CC 200MHz 64QAM 1 RB)



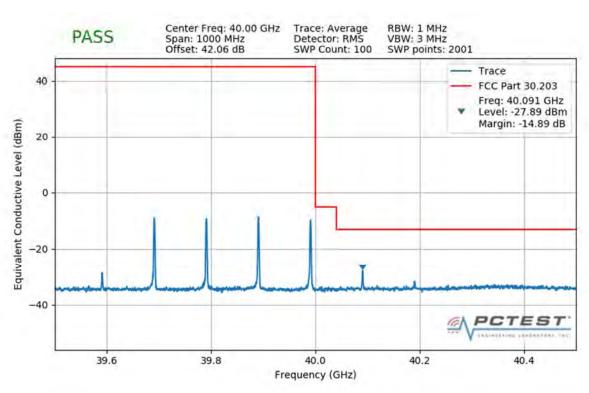
Plot 7-333. Upper Band Edge Plot (4CC 400MHz QPSK Full RB)

FCC ID: A3LSMG977U	The AMERICAN STREET OF STREET	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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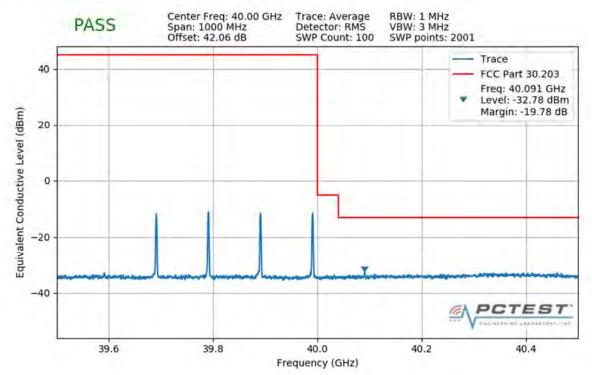
Plot 7-334. Upper Band Edge Plot (4CC 400MHz QPSK 1 RB)



Plot 7-335. Upper Band Edge Plot (4CC 400MHz 16QAM 1 RB)

FCC ID: A3LSMG977U	The respective to a state of the true	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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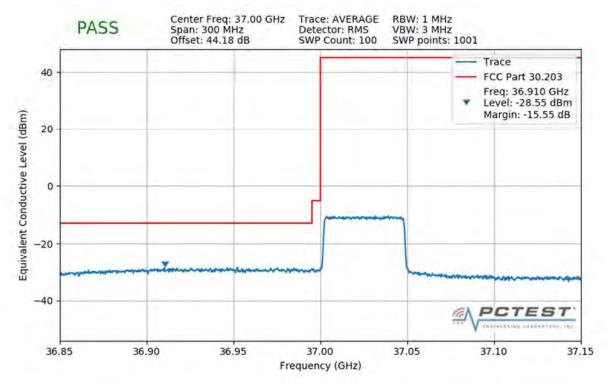




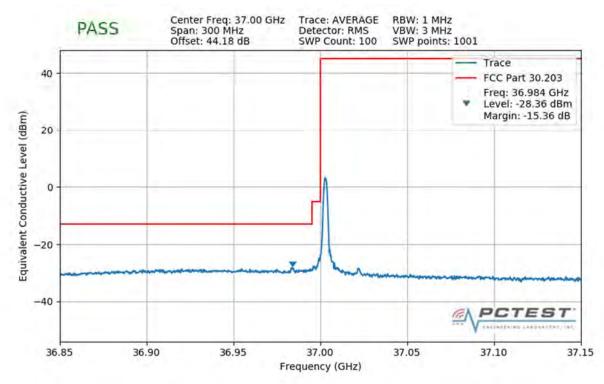
Plot 7-336. Upper Band Edge Plot (4CC 400MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The AMERICAN STREET OF STREET	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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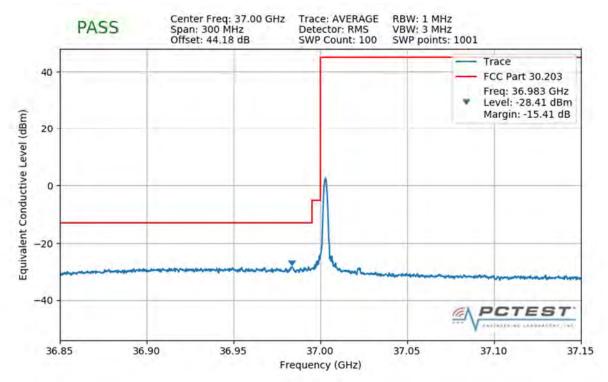
Plot 7-337. Lower Band Edge Plot (1CC 50MHz QPSK Full RB)



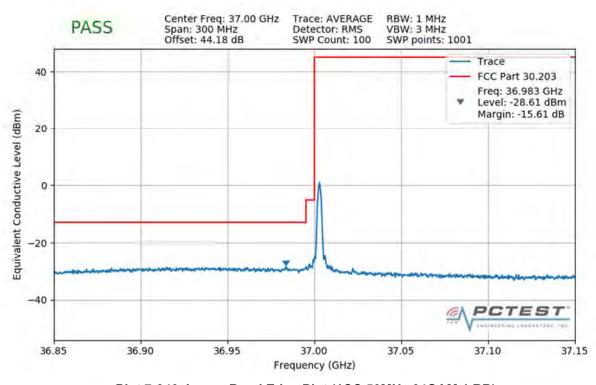
Plot 7-338. Lower Band Edge Plot (1CC 50MHz QPSK 1 RB)

FCC ID: A3LSMG977U	DETEST	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	MESONE	Approved by: Quality Manager
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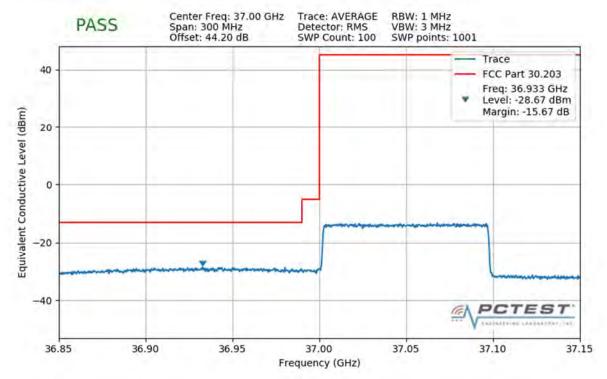
Plot 7-339. Lower Band Edge Plot (1CC 50MHz 16QAM 1 RB)



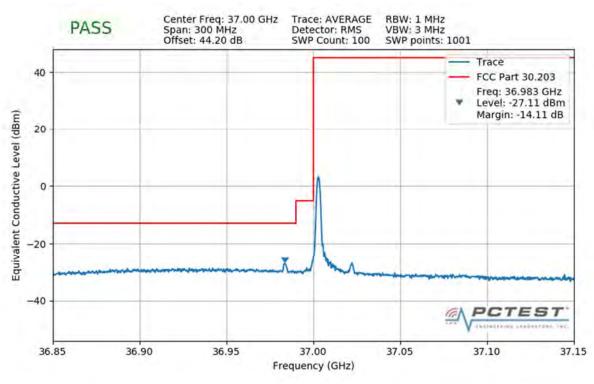
Plot 7-340. Lower Band Edge Plot (1CC 50MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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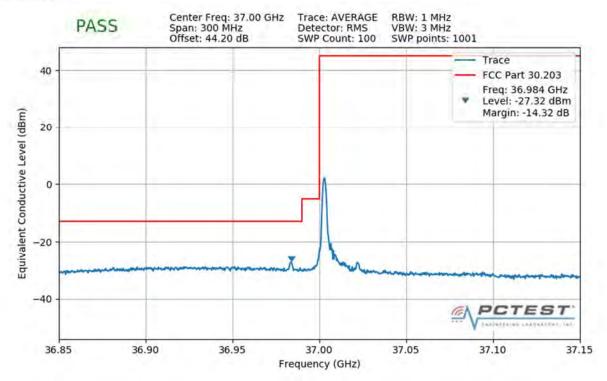
Plot 7-341. Lower Band Edge Plot (1CC 100MHz QPSK Full RB)



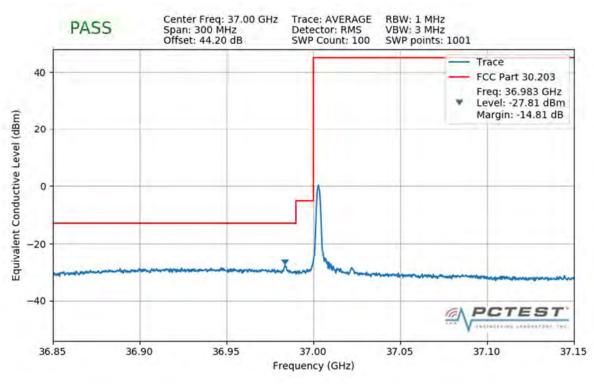
Plot 7-342. Lower Band Edge Plot (1CC 100MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The respective to a state of the true	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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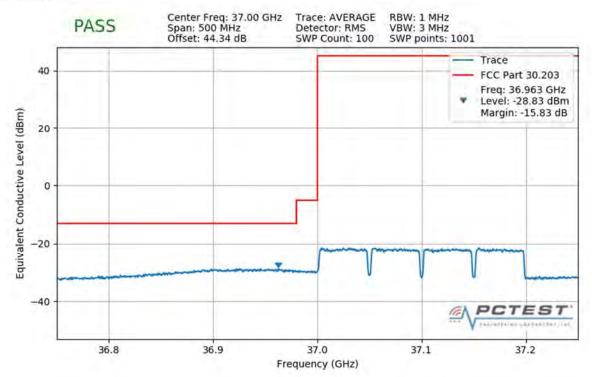
Plot 7-343. Lower Band Edge Plot (1CC 100MHz 16QAM 1 RB)



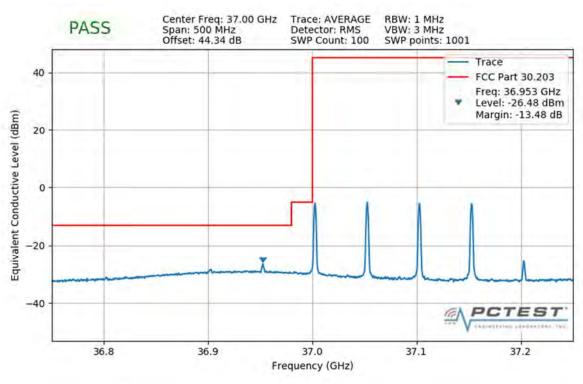
Plot 7-344. Lower Band Edge Plot (1CC 100MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The office is a fall to a	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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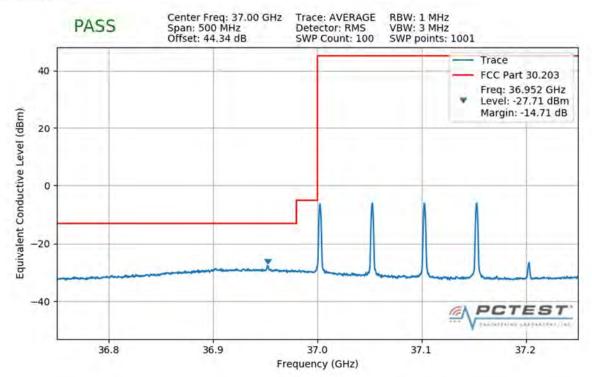
Plot 7-345. Lower Band Edge Plot (4CC 200MHz QPSK Full RB)



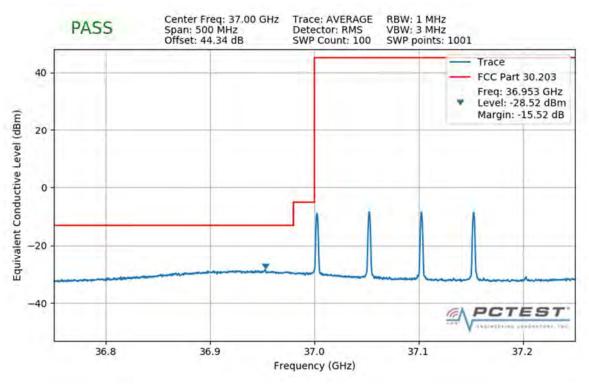
Plot 7-346. Lower Band Edge Plot (4CC 200MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The AMERICAN STREET OF STREET	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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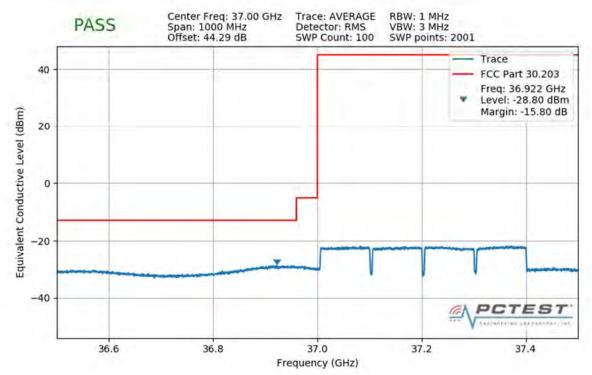
Plot 7-347. Lower Band Edge Plot (4CC 200MHz 16QAM 1 RB)



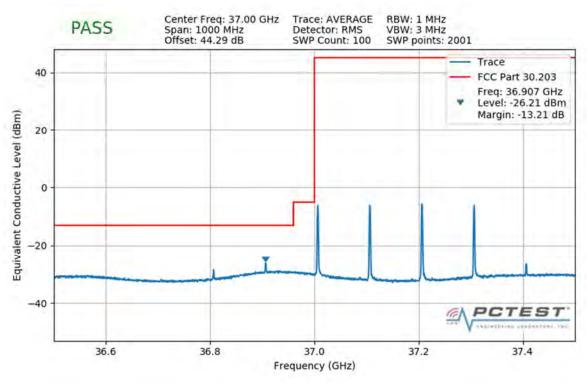
Plot 7-348. Lower Band Edge Plot (4CC 200MHz 64QAM 1 RB)

FCC ID: A3LSMG977U	The office of a still a state of the contract	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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Plot 7-349. Lower Band Edge Plot (4CC 400MHz QPSK Full RB)



Plot 7-350. Lower Band Edge Plot (4CC 400MHz QPSK 1 RB)

FCC ID: A3LSMG977U	The AMERICAN STREET OF STREET	MEASUREMENT REPORT (CLASS III PERMISSIVE CHANGE)	Approved by: Quality Manager
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