

Test Report No.50174380 001

Appendix D: Radiated Emission Data

(File: 50174380AppendixD)

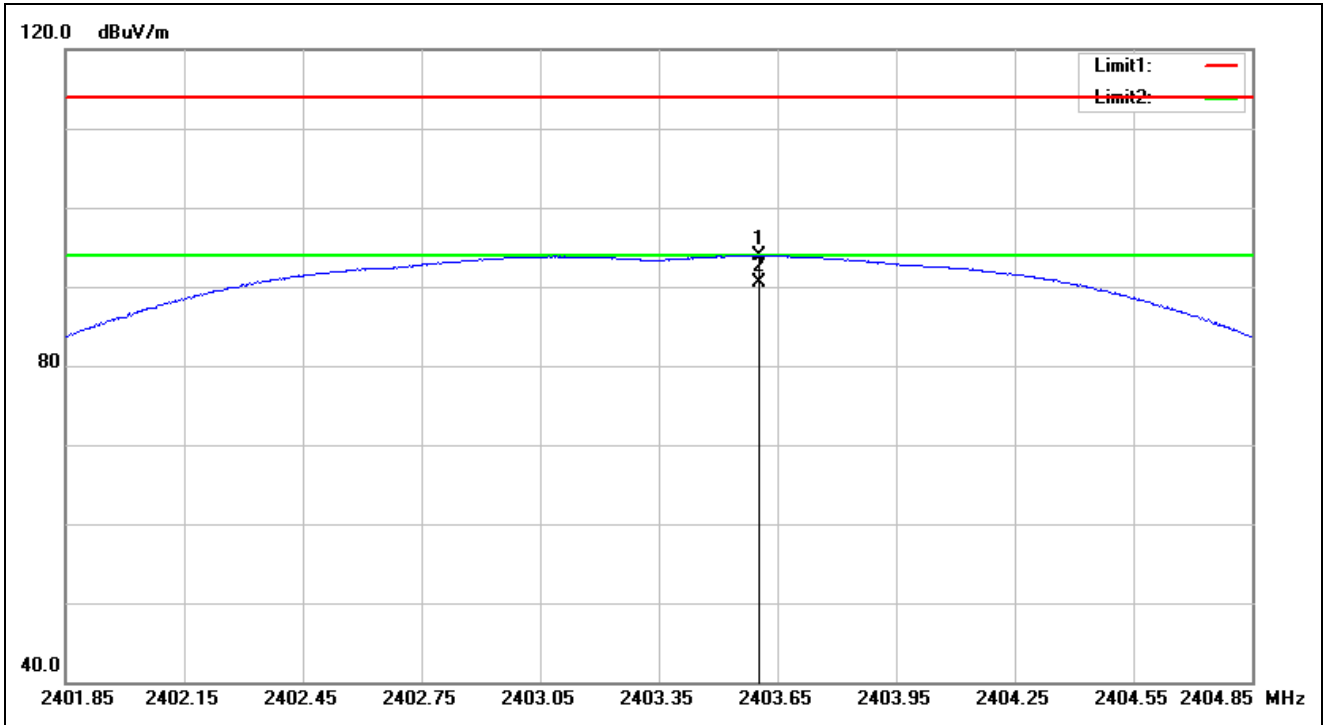
Contents

| | |
|--|----|
| Spurious Emissions, Fundamental and Band Edges | 2 |
| Spurious Emissions, TX Mode, 1-18G..... | 12 |
| Spurious Emissions, TX Mode, 18-26G..... | 18 |
| Spurious Emissions, TX Mode, 30M-1G | 24 |
| Spurious Emissions, RX Mode, 1-18G | 26 |
| Spurious Emissions, RX Mode, 18-26G | 28 |
| Spurious Emissions, RX Mode, 30M-1G..... | 30 |
| Spurious Emissions, Mains, 150kHz - 30MHz..... | 32 |

Radiated Emissions, Fundamental and Band Edges

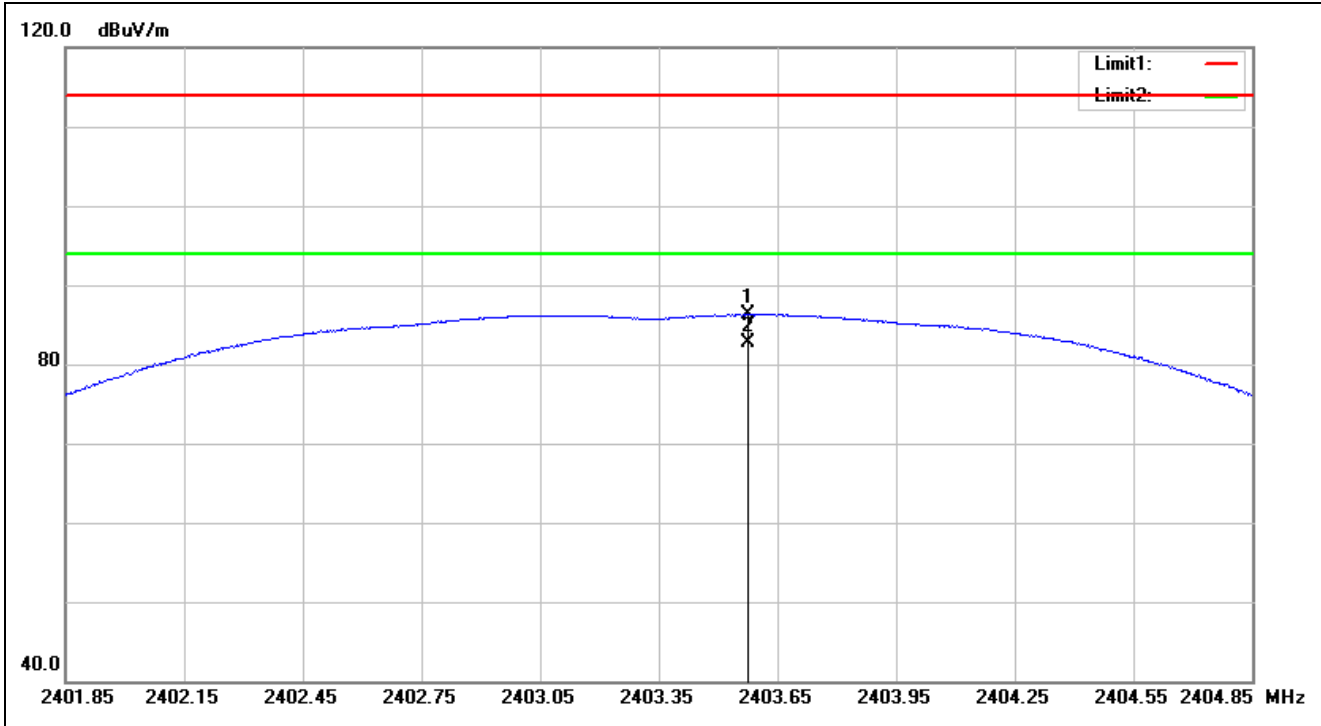


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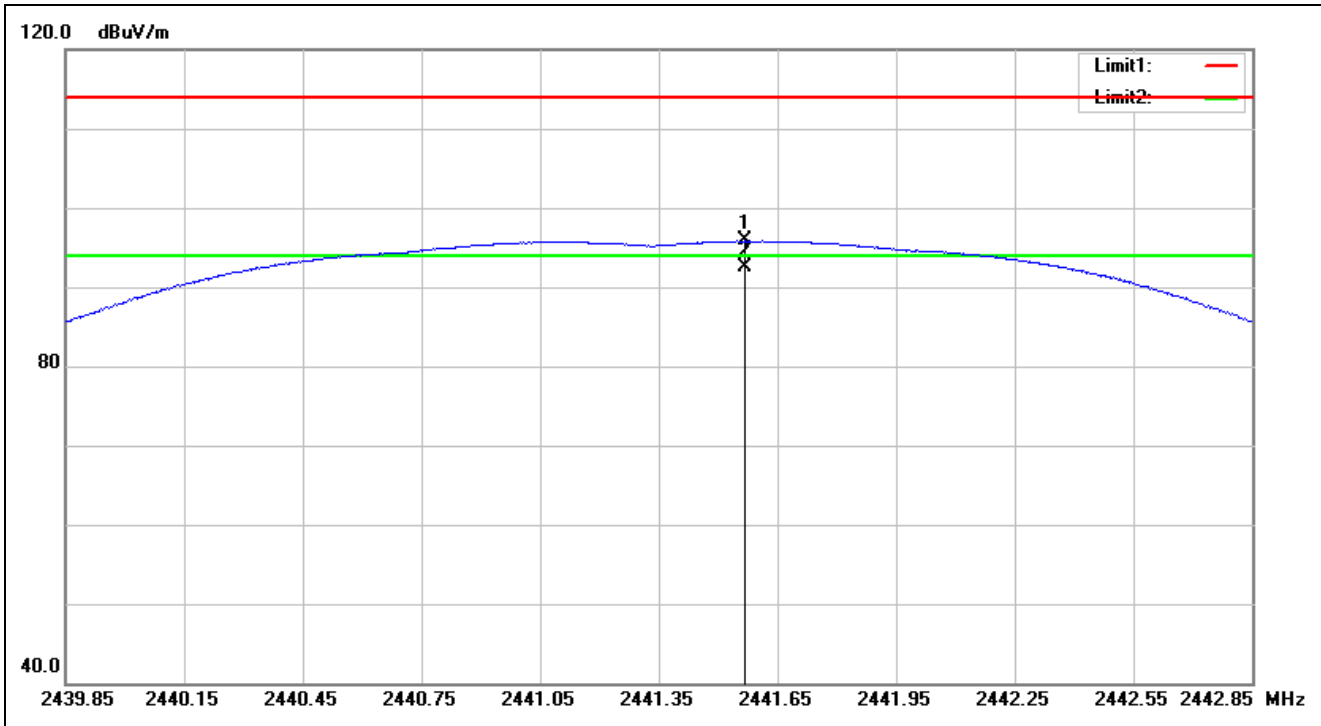
| | | | |
|-----------------------|-------------------------------|---------------------------|-------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC_3.10.2_TX_PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2018/7/2 15:50:36 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 21.2(°C)/55% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Curry Chen |
| Test Mode: | 2.40335G-TX | | |
| Remark: | setting:0x1C | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 2403.605 | -7.91 | 101.82 | 93.91 | 114.00 | -20.09 | peak | 100 | 220 | |
| 2 | 2403.605 | -7.91 | 98.34 | 90.43 | 94.00 | -3.57 | AVG | 100 | 220 | |



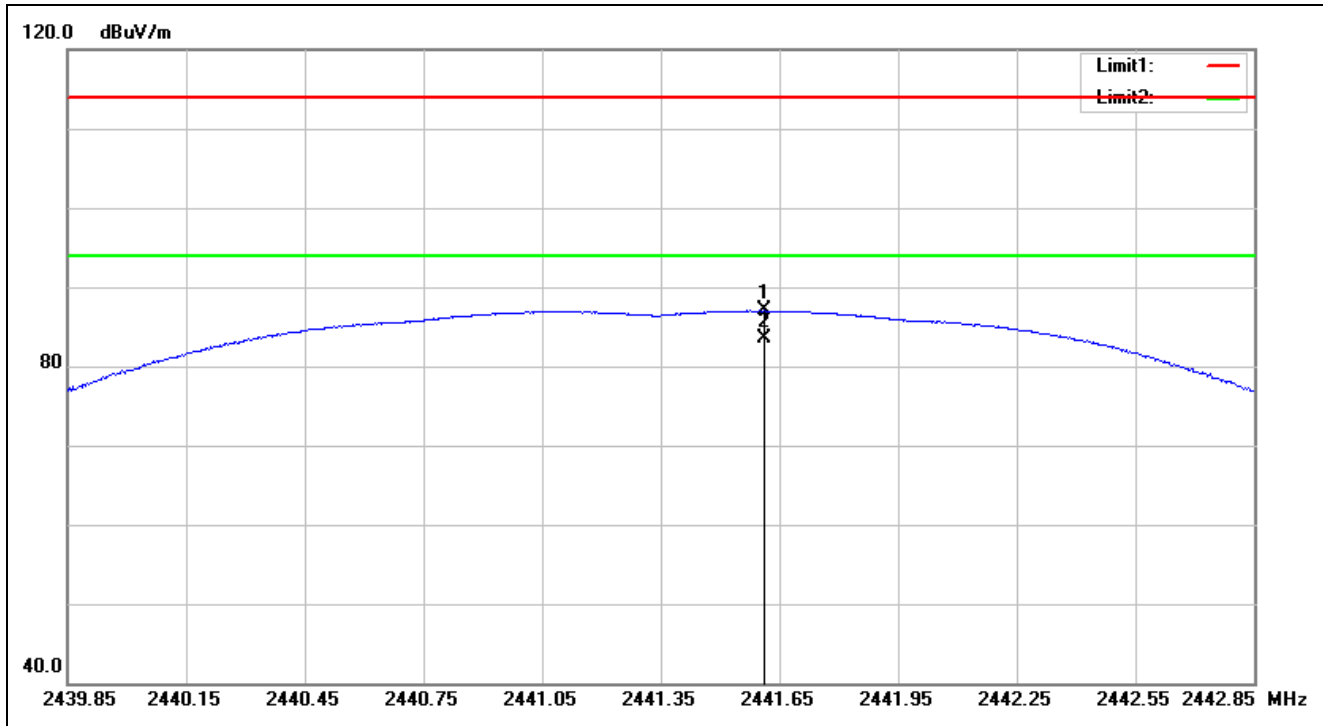
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|-----------------------|--------------------------------------|---------------------------|--------------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC_3.10.2_TX_PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2018/7/2 15:51:38 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 21.2(°C)/55% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Curry Chen |
| Test Mode: | 2.40335G-TX | | |
| Remark: | setting:0x1C | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 2403.575 | -7.91 | 94.23 | 86.32 | 114.00 | -27.68 | peak | 105 | 243 | |
| 2 | 2403.575 | -7.91 | 90.67 | 82.76 | 94.00 | -11.24 | AVG | 105 | 243 | |



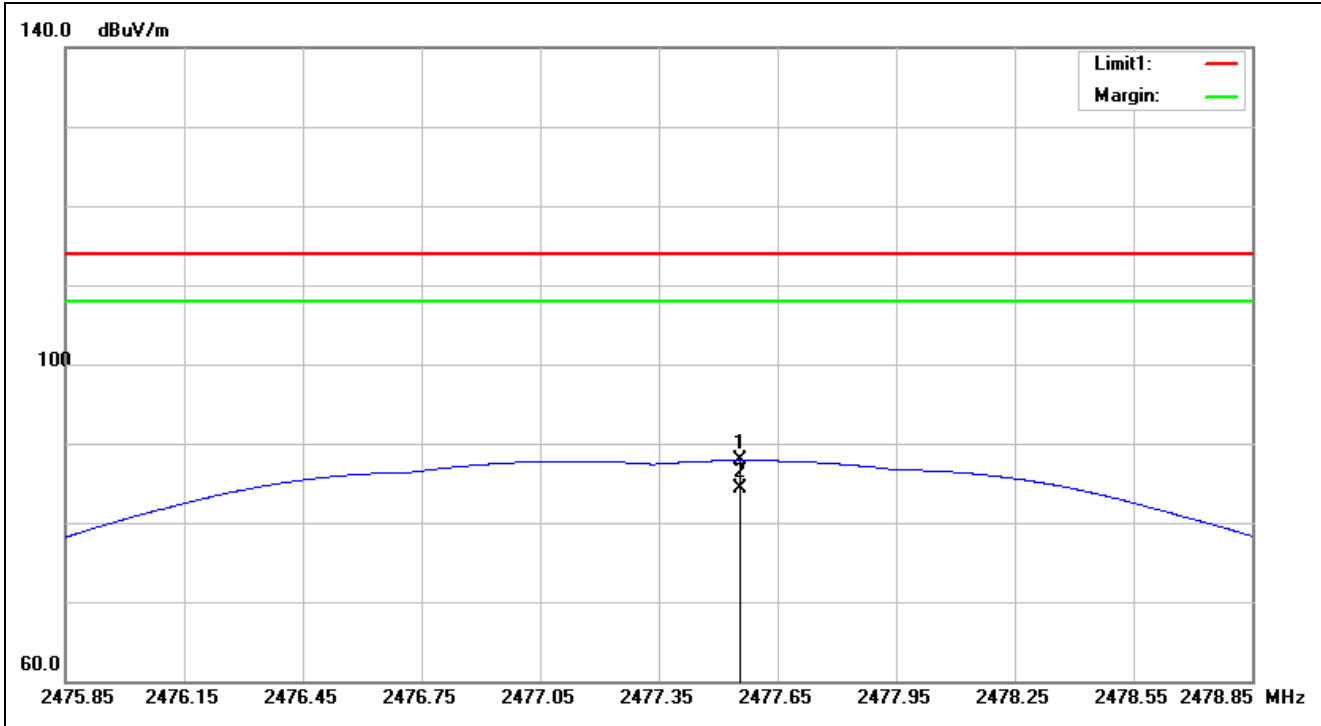
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|-----------------------|--------------------------------------|---------------------------|--------------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC_3.10.2_TX_PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2018/7/2 14:49:47 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 21.2(°C)/55% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Curry Chen |
| Test Mode: | 2.44135G-TX | | |
| Remark: | setting:0x18 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 2441.566 | -7.89 | 103.73 | 95.84 | 114.00 | -18.16 | peak | 100 | 220 | |
| 2 | 2441.566 | -7.89 | 100.32 | 92.43 | 94.00 | -1.57 | AVG | 100 | 220 | |



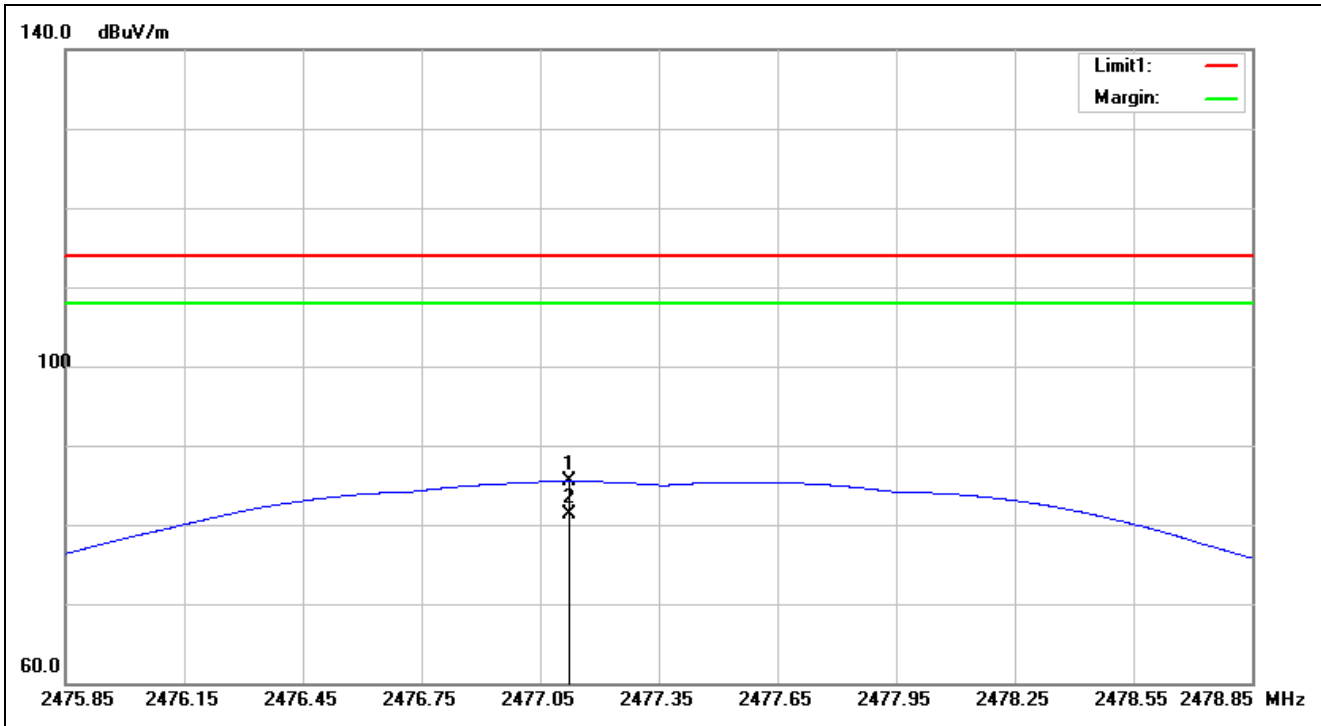
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|-----------------------|--------------------------------------|---------------------------|--------------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC_3.10.2_TX_PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2018/7/2 14:51:17 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 21.2(°C)/55% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Curry Chen |
| Test Mode: | 2.44135G-TX | | |
| Remark: | setting:0x18 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 2441.611 | -7.89 | 94.95 | 87.06 | 114.00 | -26.94 | peak | 105 | 243 | |
| 2 | 2441.611 | -7.89 | 91.38 | 83.49 | 94.00 | -10.51 | AVG | 105 | 243 | |



| | | | |
|-----------------------|--------------------------------------|---------------------------|--------------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC_3.10.2_TX_PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2018/8/8 21:11:10 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 20(°C)/55% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Amy Hsu |
| Test Mode: | 2.447.35-TX | | |
| Remark: | setting:0x07 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 2477.554 | -8.03 | 95.89 | 87.86 | 114.00 | -26.14 | peak | 100 | 251 | |
| 2 | 2477.554 | -8.03 | 92.35 | 84.32 | 114.00 | -29.68 | AVG | 100 | 251 | |

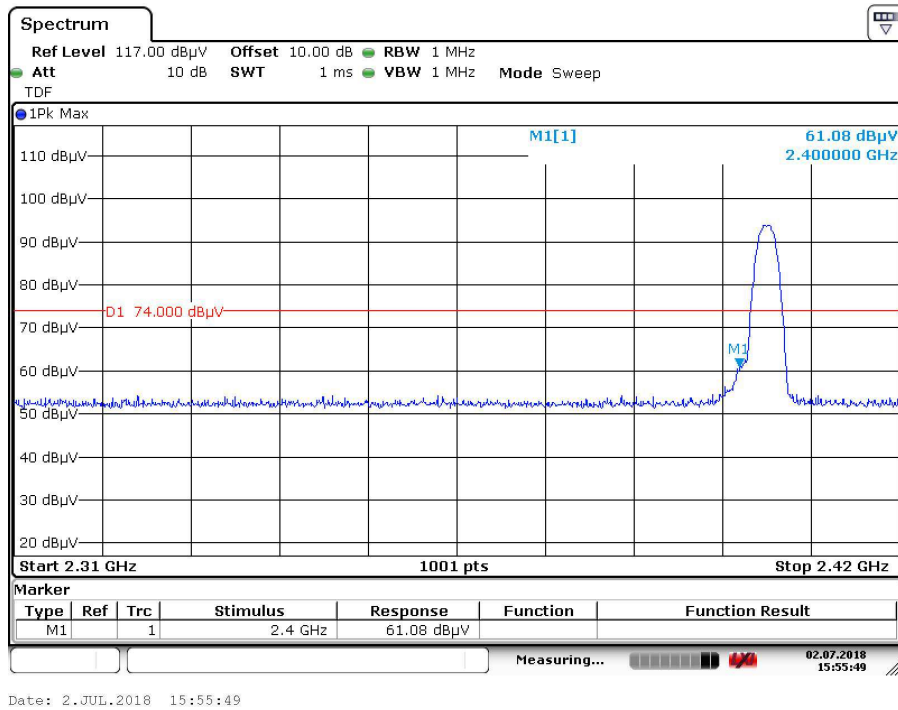
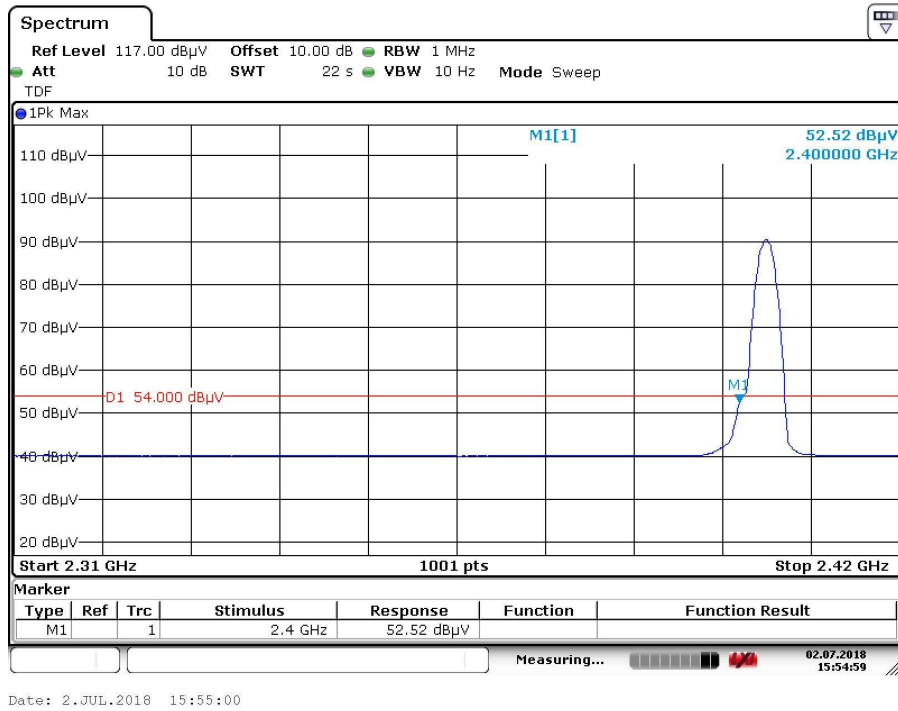


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|-----------------------|--------------------------------------|---------------------------|--------------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC_3.10.2_TX_PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2018/8/8 21:12:12 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 20(°C)/55% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Amy Hsu |
| Test Mode: | 2.447.35-TX | | |
| Remark: | setting:0x07 | | |

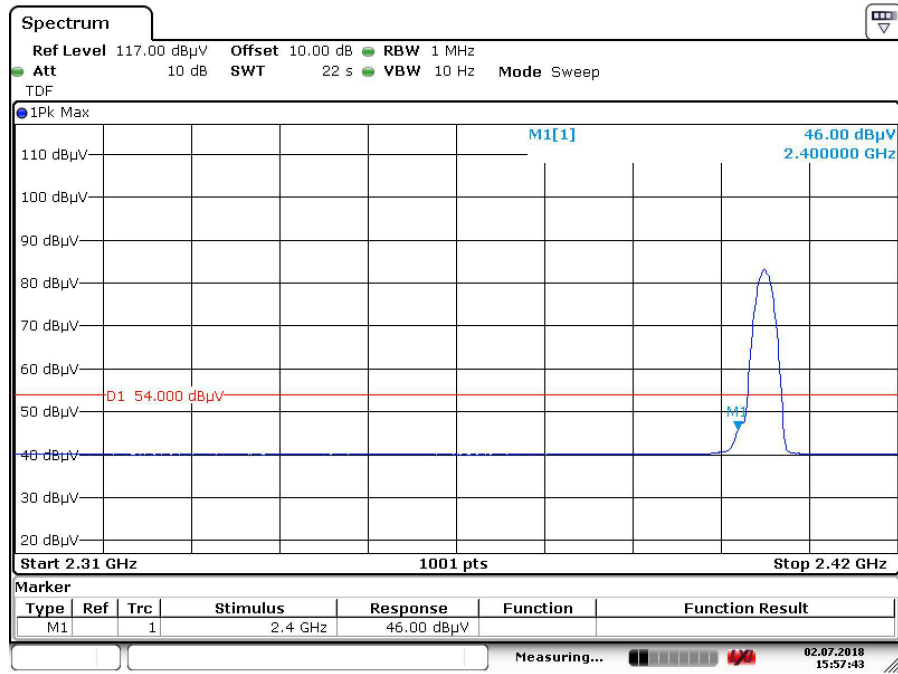
| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 2477.122 | -8.03 | 93.50 | 85.47 | 114.00 | -28.53 | peak | 100 | 249 | |
| 2 | 2477.122 | -8.03 | 89.31 | 81.28 | 114.00 | -32.72 | AVG | 100 | 249 | |

Radiated Bandedge

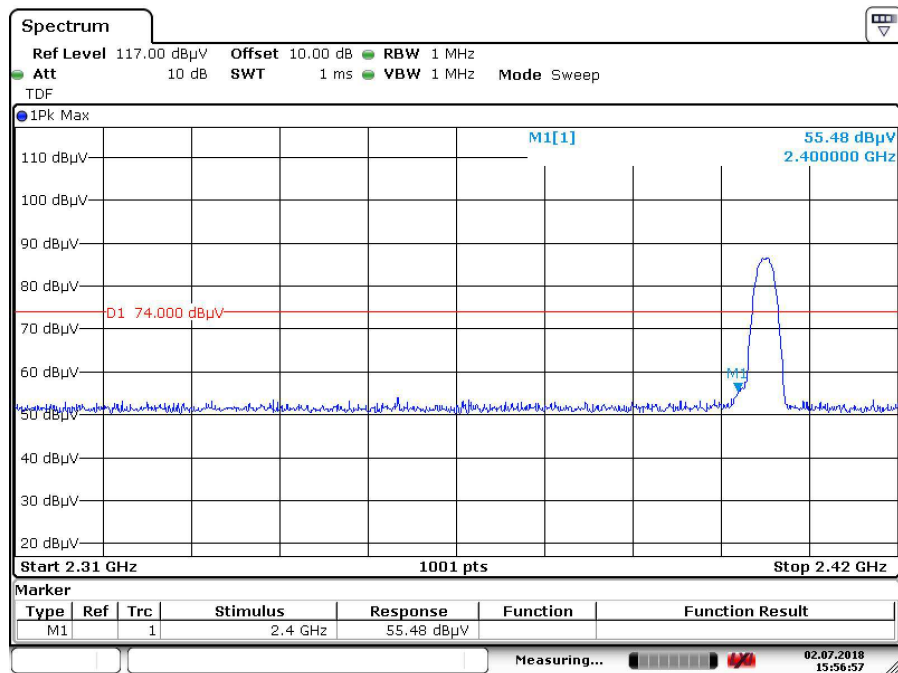
Low Channel (Hor)



Low Channel (Ver)



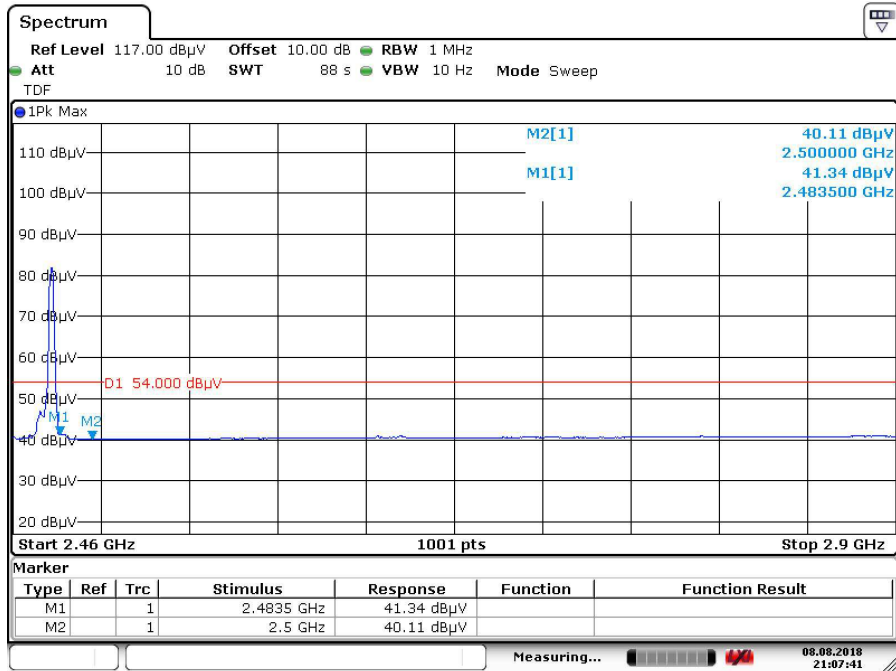
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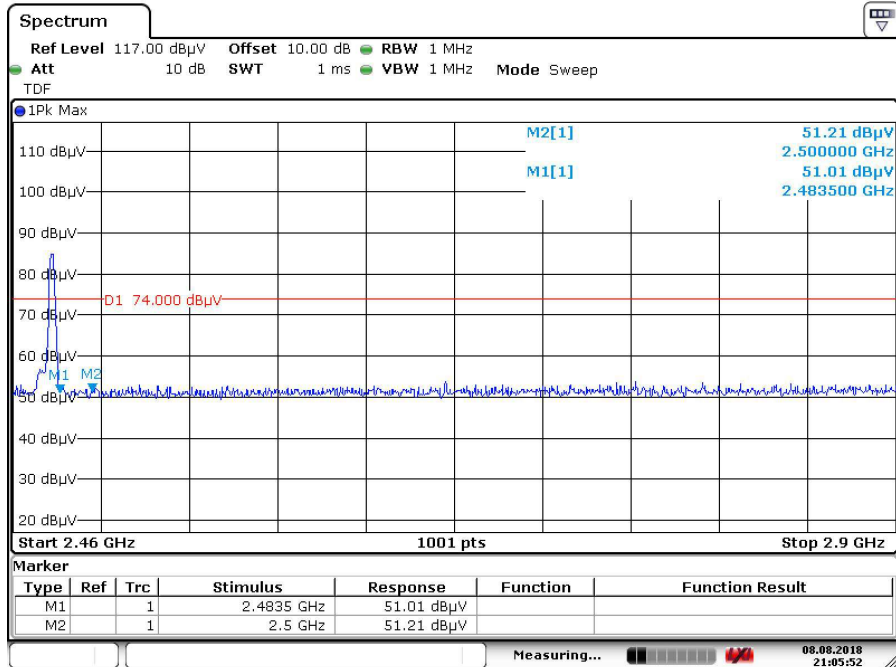
Date: 2.JUL.2018 15:56:58

Radiated Bandedge

High Channel (Hor)

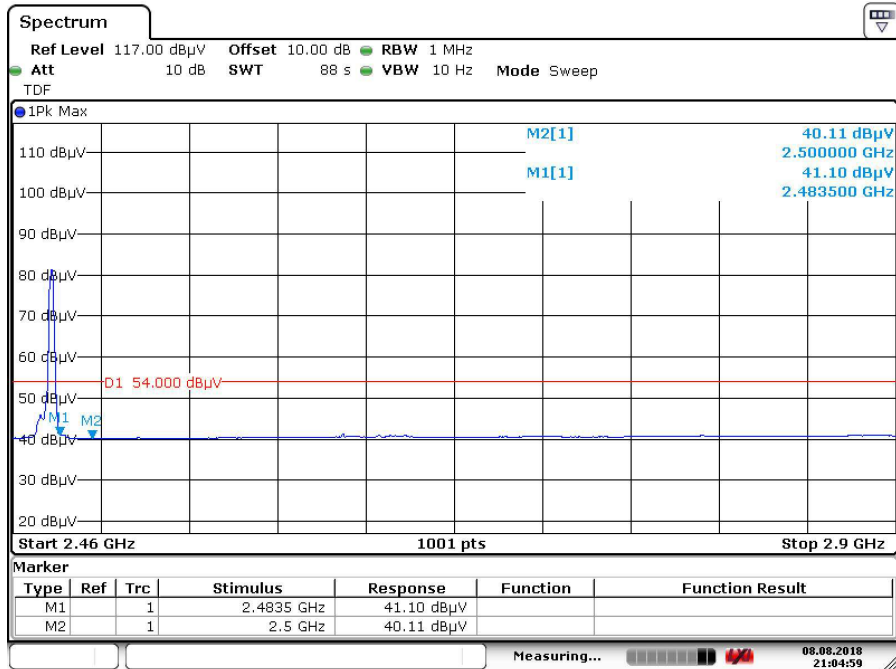


Date: 8.AUG.2018 21:07:41

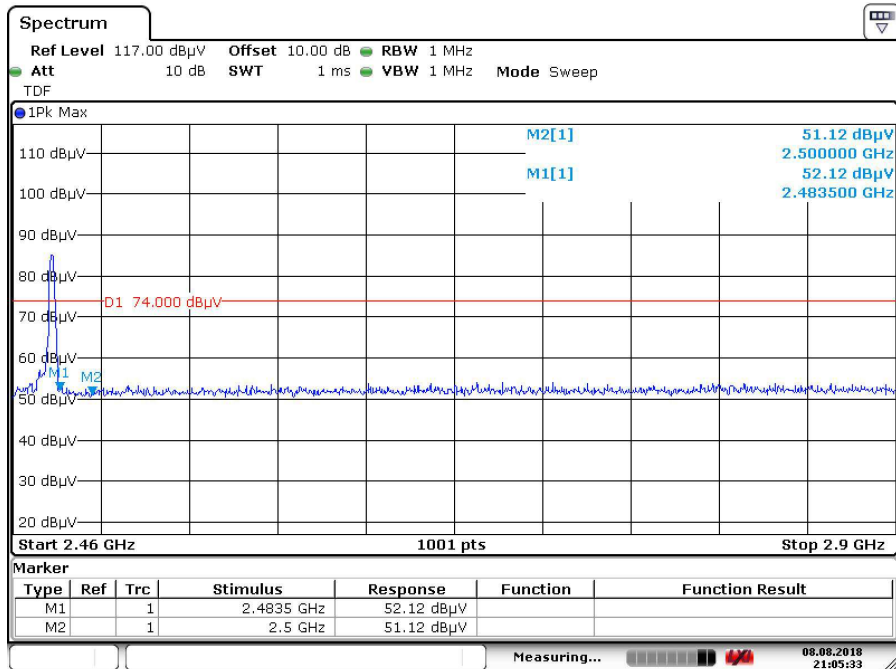


Date: 8.AUG.2018 21:05:52

High Channel (Ver)



Date: 8.AUG.2018 21:04:59



Date: 8.AUG.2018 21:05:33

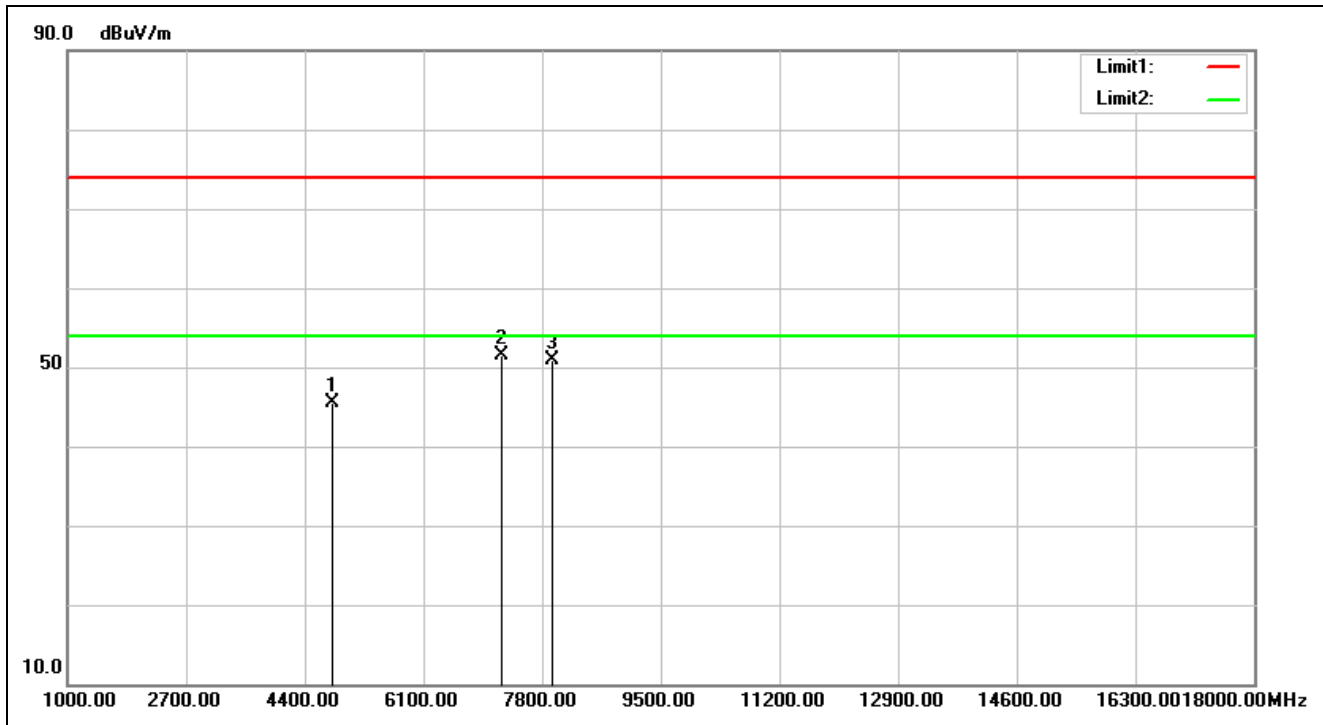
Spurious Emissions, TX Mode, 1-18G



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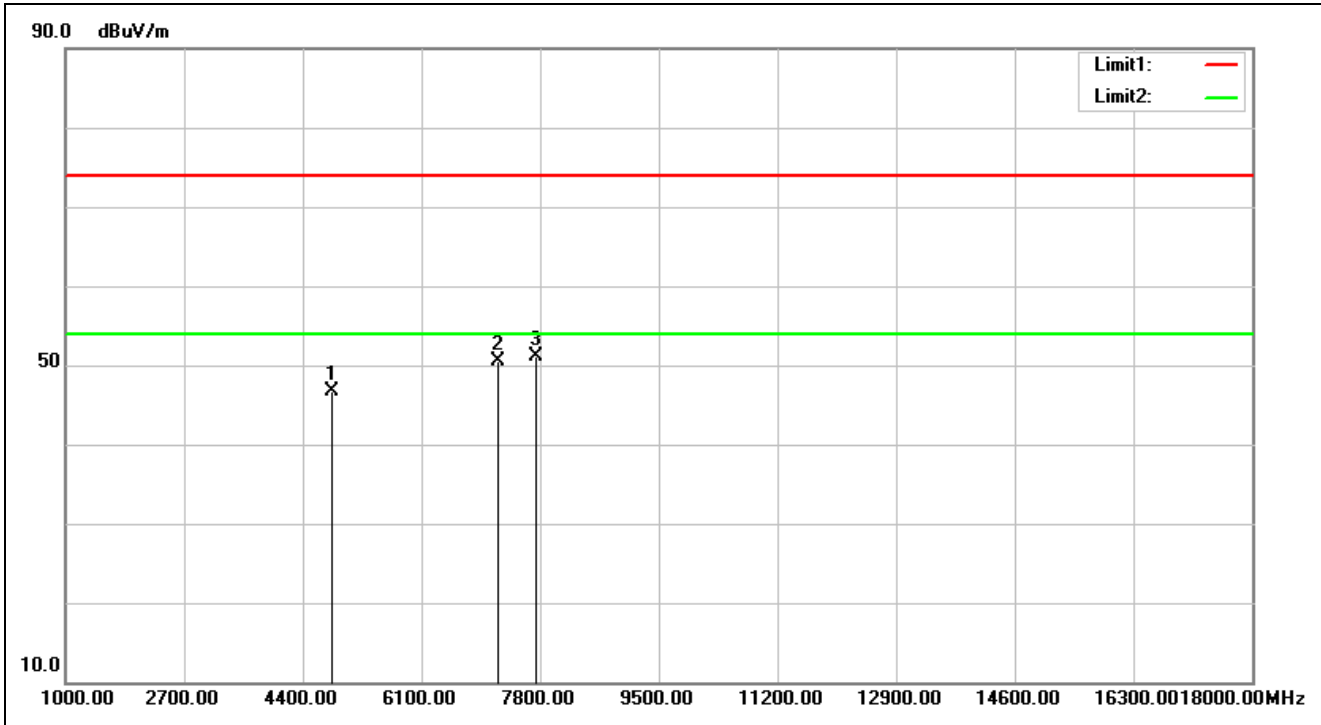
Tel:+886-2172-7000 fax:+886-2528-0018



| | | | |
|-----------------------|--------------------------------------|---------------------------|--------------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC Above 1G PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2018/7/2 15:58:11 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 21.2(°C)/55% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Curry Chen |
| Test Mode: | 2.40335G-TX | | |
| Remark: | setting:0x1C | | |

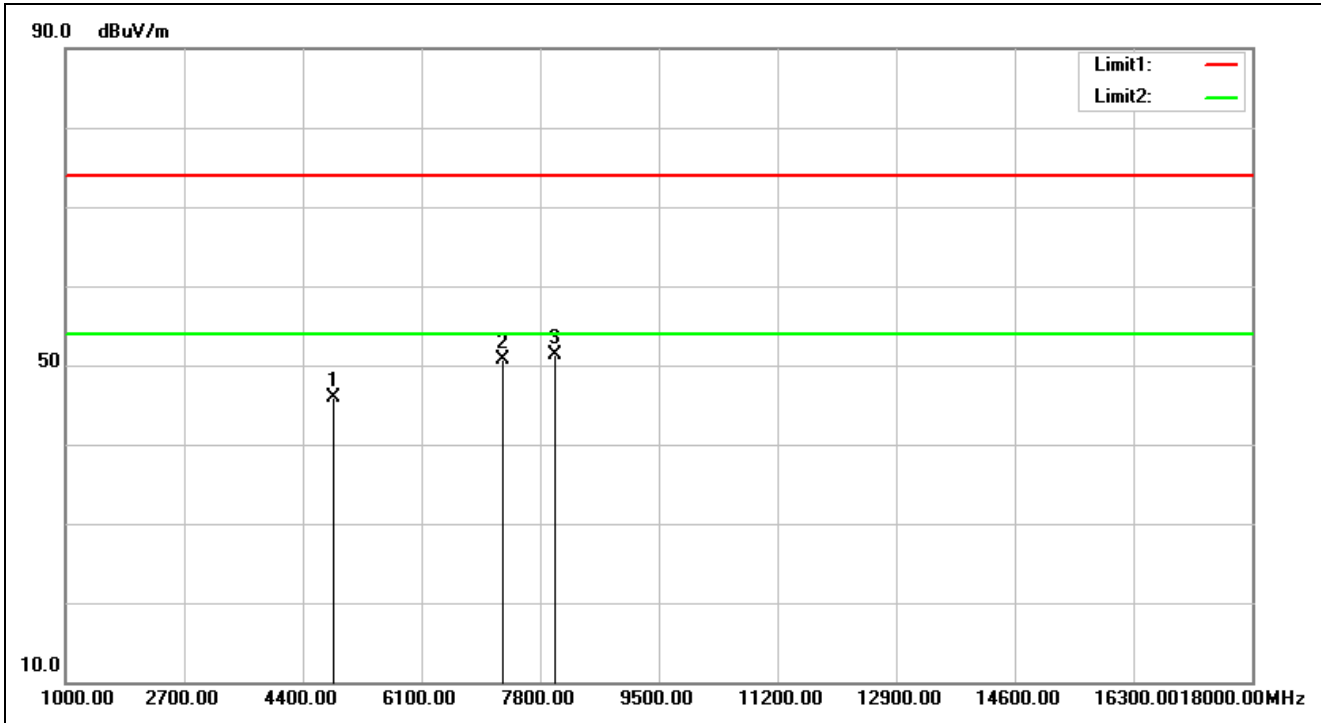
| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 4806.700 | -2.55 | 48.00 | 45.45 | 74.00 | -28.55 | peak | | 0 | |
| 2 | 7210.050 | 5.36 | 46.09 | 51.45 | 74.00 | -22.55 | peak | | 0 | |
| 3 | 7936.000 | 5.88 | 45.03 | 50.91 | 74.00 | -23.09 | peak | | 0 | |

Spurious Emissions, TX Mode, 1-18G



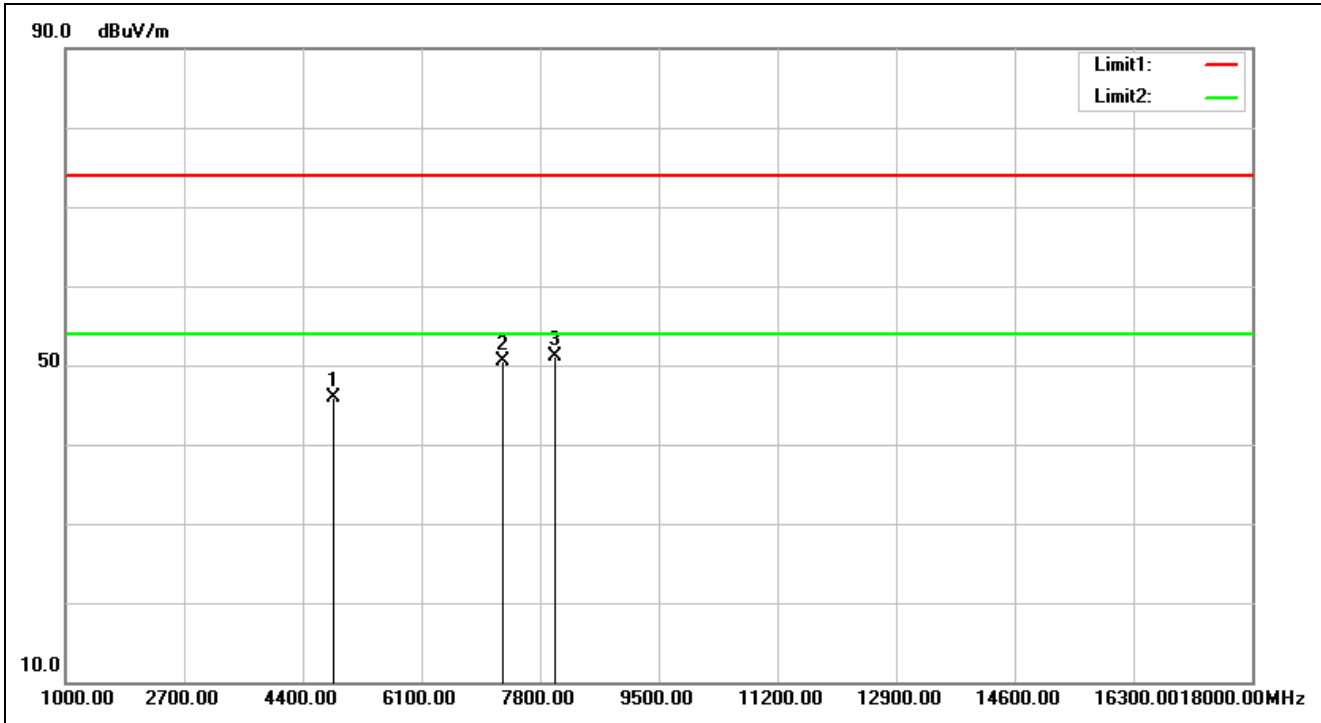
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|-----------------------|-------------------------------|---------------------------|-------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC Above 1G PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2018/7/2 15:59:04 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 21.2(°C)/55% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Curry Chen |
| Test Mode: | 2.40335G-TX | | |
| Remark: | setting:0x1C | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 4806.700 | -2.55 | 49.31 | 46.76 | 74.00 | -27.24 | peak | | | |
| 2 | 7210.050 | 5.36 | 45.08 | 50.44 | 74.00 | -23.56 | peak | | | |
| 3 | 7732.000 | 5.96 | 45.09 | 51.05 | 74.00 | -22.95 | peak | | | |



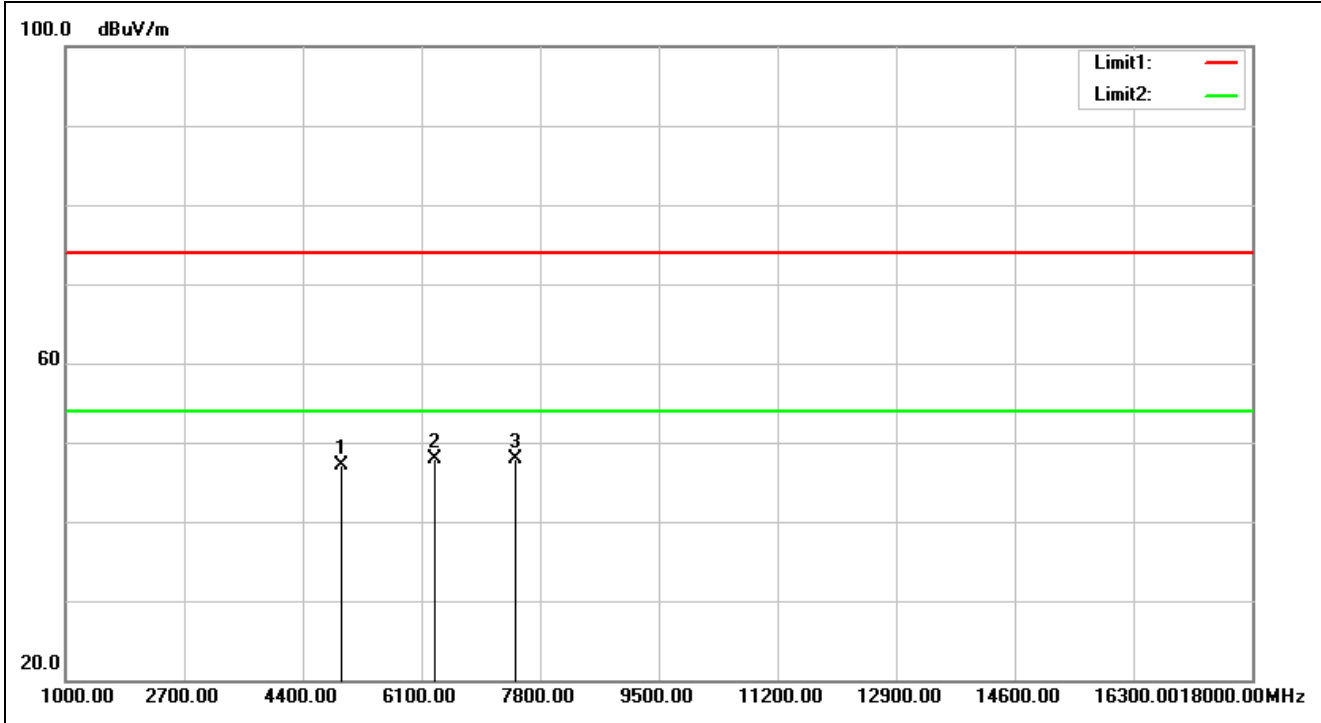
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|-----------------------|-------------------------------|---------------------------|-------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC Above 1G PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2018/7/2 16:06:58 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 21.2(°C)/55% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Curry Chen |
| Test Mode: | 2.44135G-TX | | |
| Remark: | setting:0x18 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 4852.700 | -2.42 | 48.42 | 46.00 | 74.00 | -28.00 | peak | | | |
| 2 | 7264.050 | 5.48 | 45.20 | 50.68 | 74.00 | -23.32 | peak | | | |
| 3 | 8021.000 | 5.89 | 45.51 | 51.40 | 74.00 | -22.60 | peak | | | |



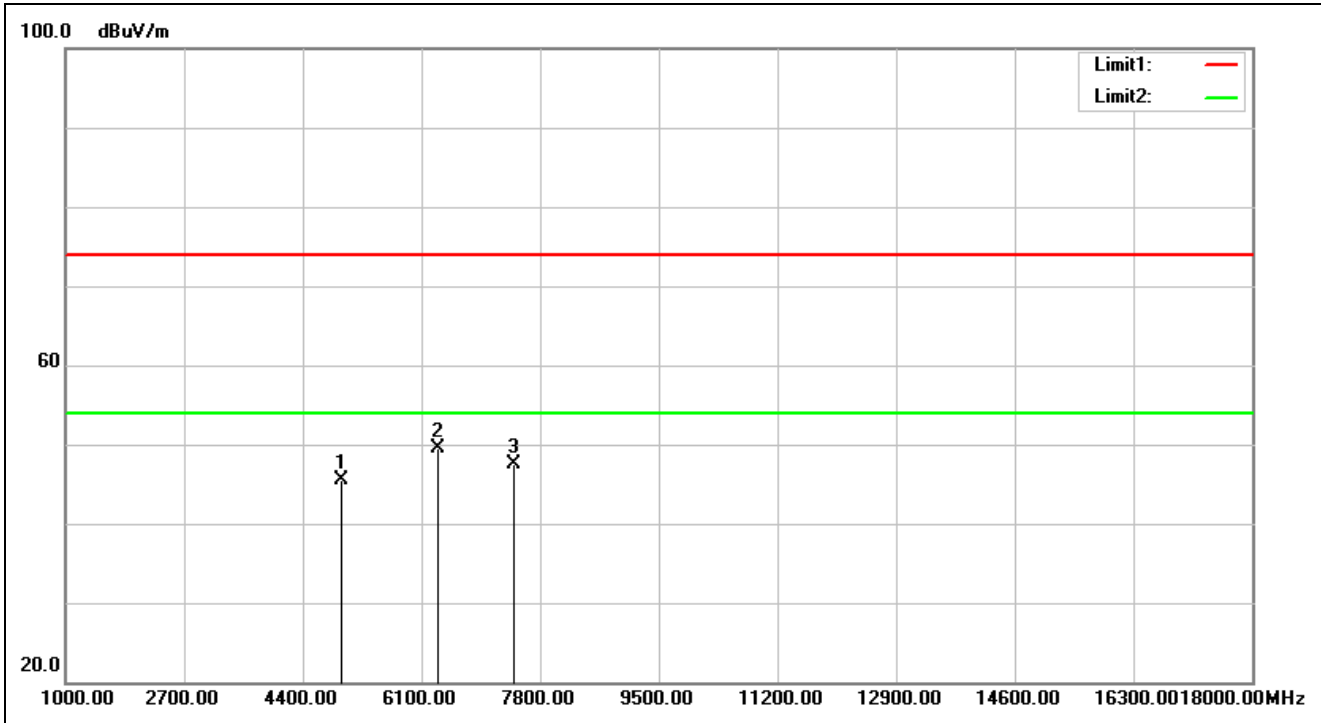
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|-----------------------|-------------------------------|---------------------------|-------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC Above 1G PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2018/7/2 16:07:50 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 21.2(°C)/55% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Curry Chen |
| Test Mode: | 2.44135G-TX | | |
| Remark: | setting:0x018 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 4852.700 | -2.42 | 48.28 | 45.86 | 74.00 | -28.14 | peak | | | |
| 2 | 7264.050 | 5.48 | 45.12 | 50.60 | 74.00 | -23.40 | peak | | | |
| 3 | 8021.000 | 5.89 | 45.20 | 51.09 | 74.00 | -22.91 | peak | | | |



| | | | |
|-----------------------|-------------------------------|---------------------------|-------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC Above 1G PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2018/8/8 21:01:12 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 20(°C)/55% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Amy Hsu |
| Test Mode: | 2.447.35-TX | | |
| Remark: | setting:0x18 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 4954.000 | -3.23 | 50.33 | 47.10 | 74.00 | -26.90 | peak | 100 | 217 | |
| 2 | 6287.000 | 3.50 | 44.32 | 47.82 | 74.00 | -26.18 | peak | 100 | 58 | |
| 3 | 7432.000 | 4.73 | 43.24 | 47.97 | 74.00 | -26.03 | peak | 100 | 25 | |



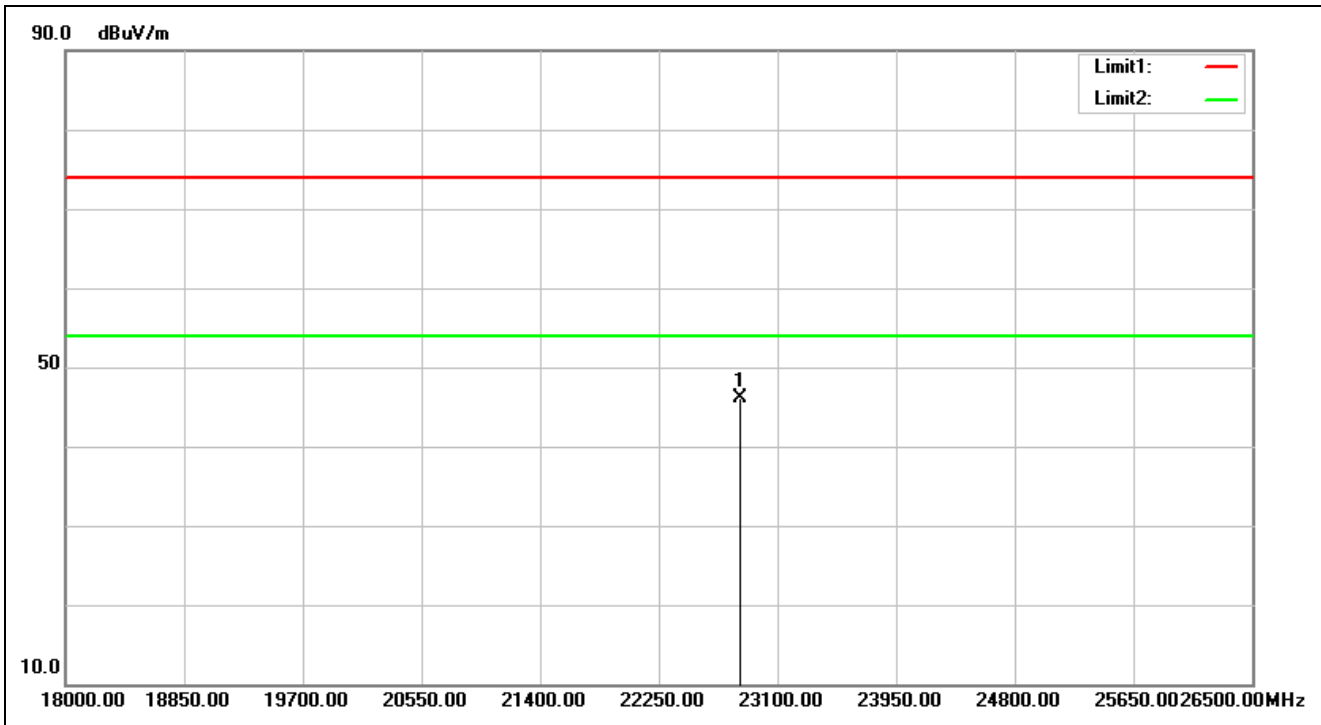
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|-----------------------|-------------------------------|---------------------------|-------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC Above 1G PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2018/8/8 21:02:14 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 20(°C)/55% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Amy Hsu |
| Test Mode: | 2.447.35-TX | | |
| Remark: | setting:0x18 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 4954.000 | -3.23 | 48.69 | 45.46 | 74.00 | -28.54 | peak | 100 | 211 | |
| 2 | 6338.000 | 3.72 | 45.74 | 49.46 | 74.00 | -24.54 | peak | 100 | 120 | |
| 3 | 7432.000 | 4.73 | 42.70 | 47.43 | 74.00 | -26.57 | peak | 100 | 354 | |

Spurious Emissions, TX Mode, 18-26G

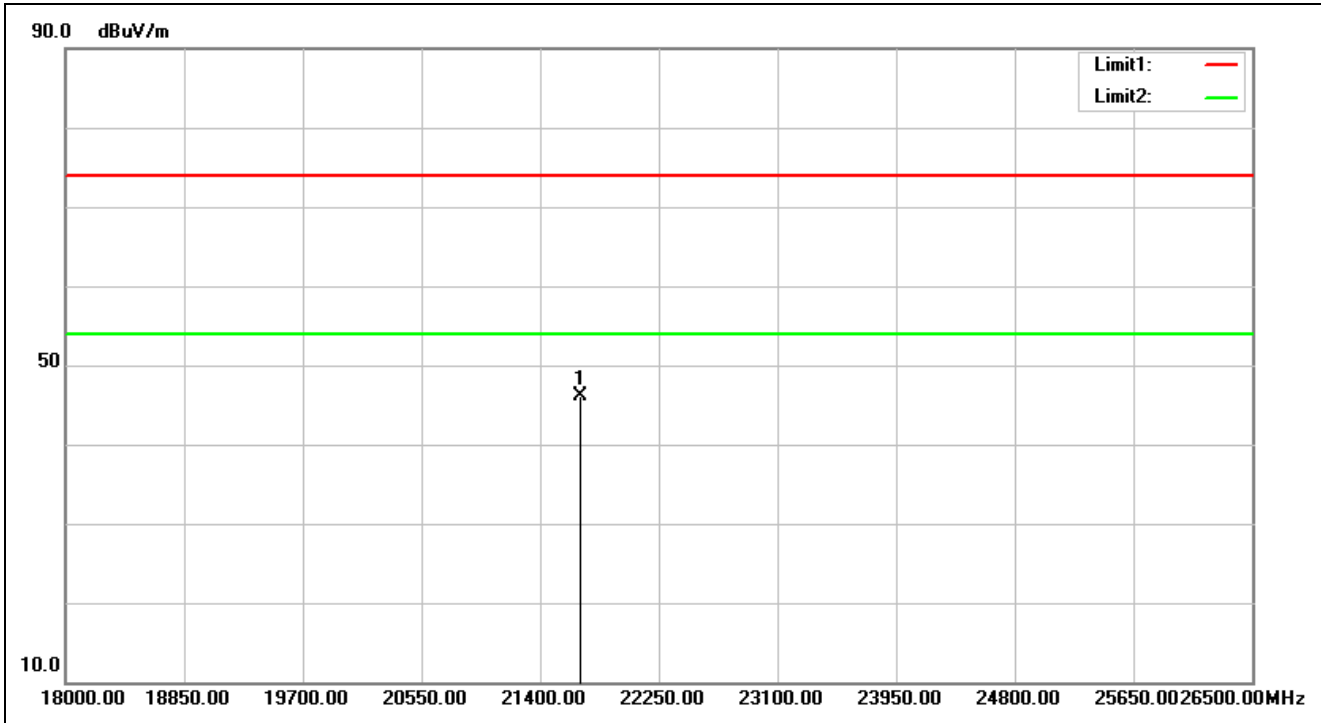


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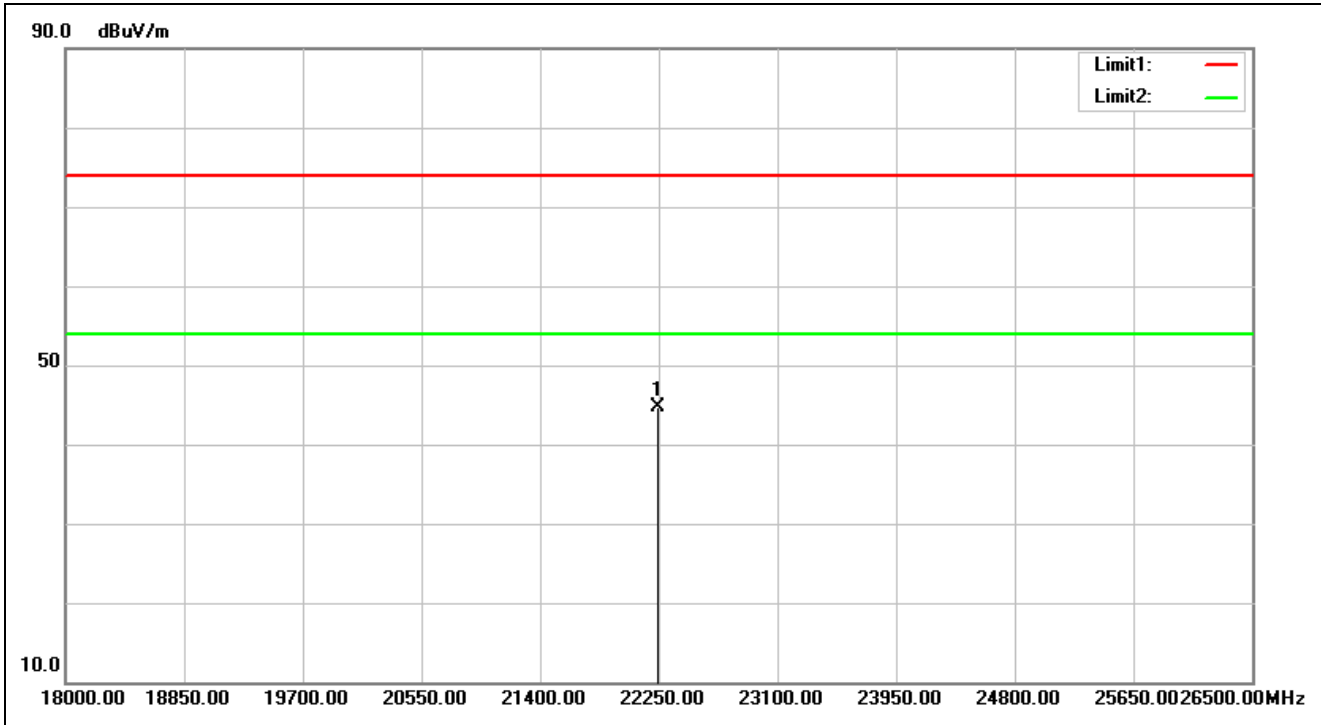
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|-----------------------|-------------------------------|---------------------------|-------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC Above 1G PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2018/7/4 15:57:37 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 24(°C)/51% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Amy Hsu |
| Test Mode: | 2.40335G-TX | | |
| Remark: | setting:0x1C | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 22828.000 | 4.85 | 41.26 | 46.11 | 74.00 | -27.89 | peak | 100 | 174 | |



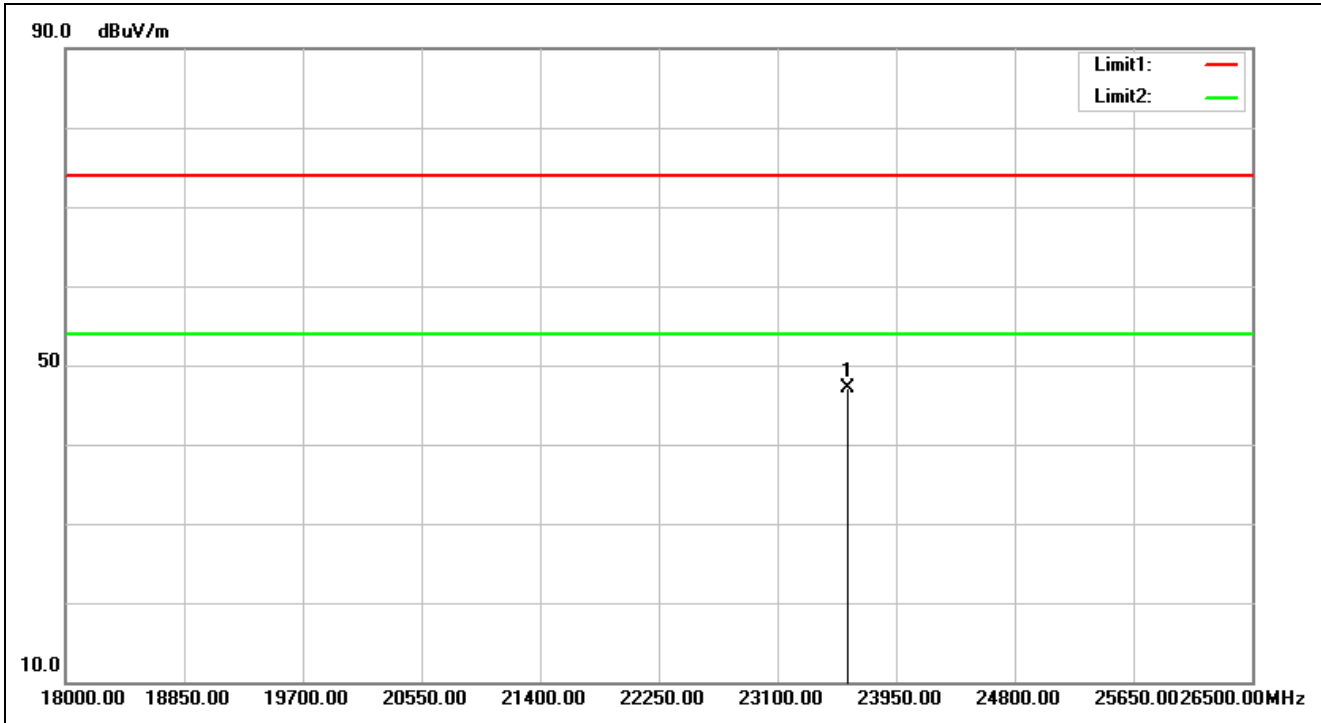
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|-----------------------|-------------------------------|---------------------------|-------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC Above 1G PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2018/7/4 15:57:49 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 24(°C)/51% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Amy Hsu |
| Test Mode: | 2.40335G-TX | | |
| Remark: | setting:0x1C | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 21689.000 | 4.07 | 41.98 | 46.05 | 74.00 | -27.95 | peak | 100 | 123 | |



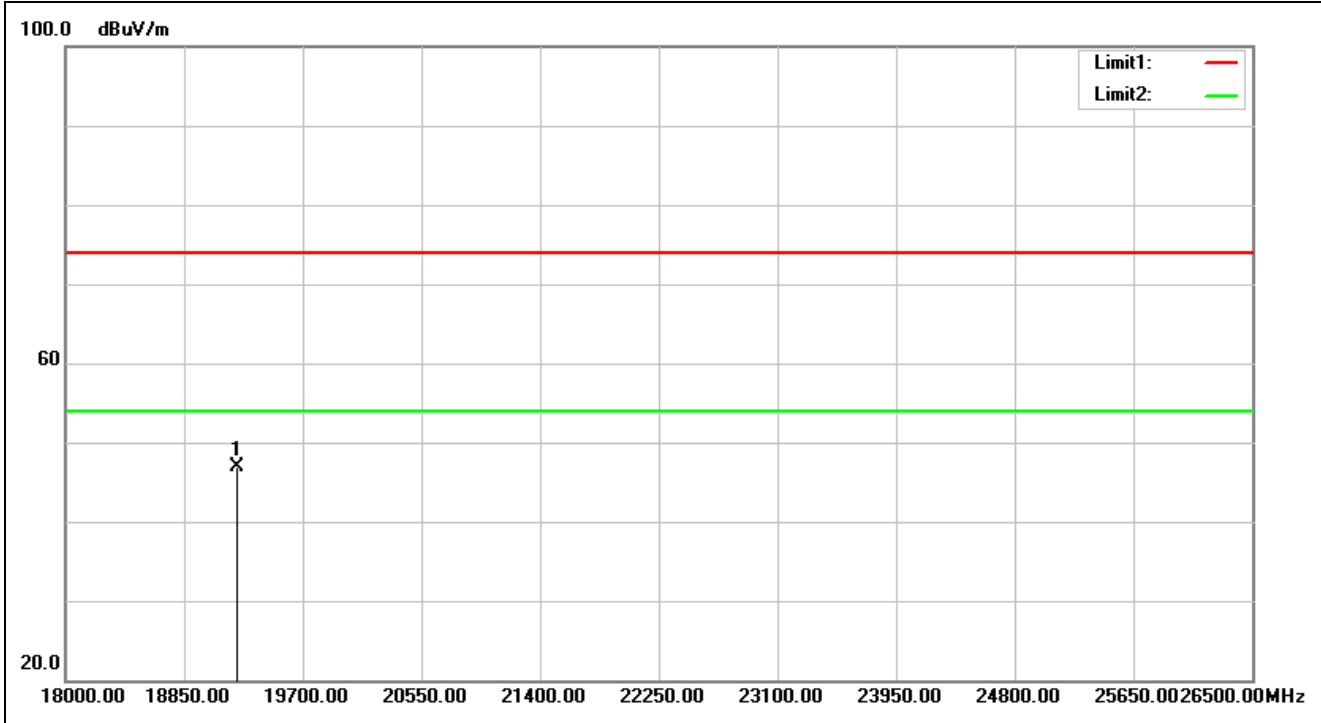
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|-----------------------|-------------------------------|---------------------------|-------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC Above 1G PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2018/7/4 15:58:21 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 24(°C)/51% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Amy Hsu |
| Test Mode: | 2.44135G-TX | | |
| Remark: | setting:0x18 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 22241.500 | 4.18 | 40.54 | 44.72 | 74.00 | -29.28 | peak | 100 | 187 | |



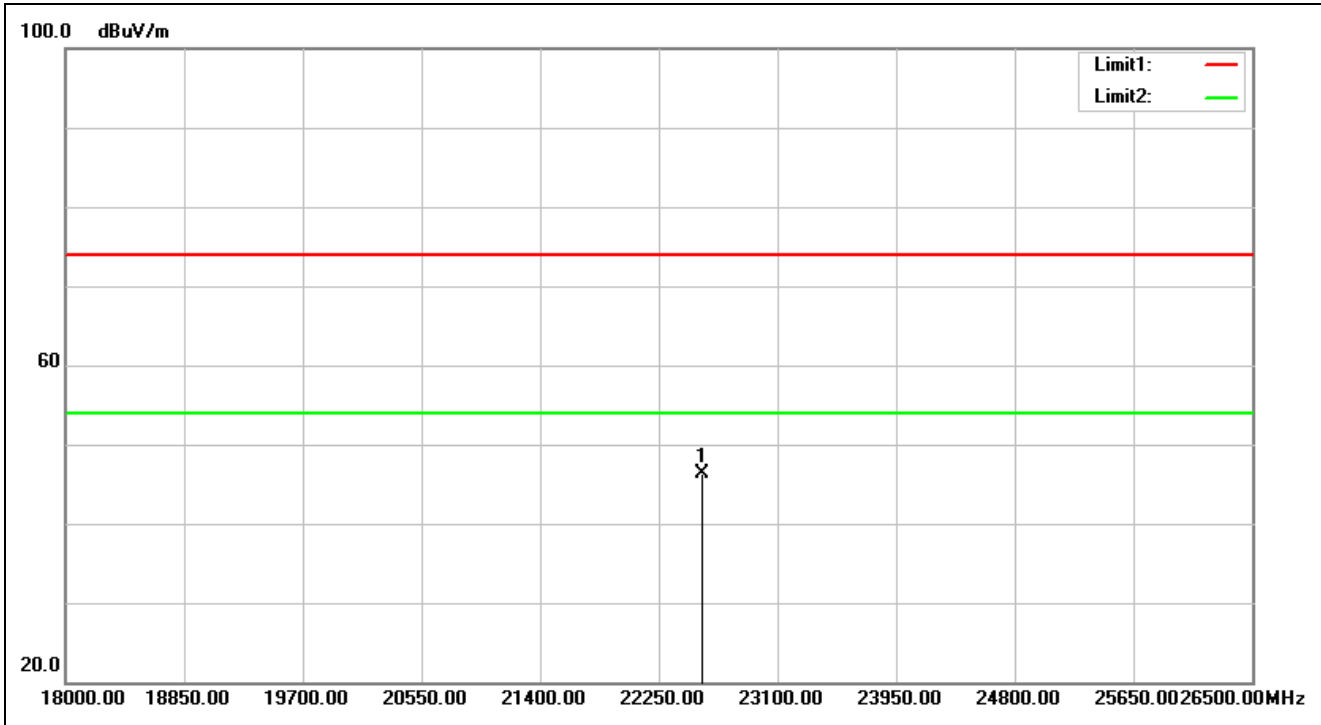
| | | | |
|-----------------------|-------------------------------|---------------------------|-------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC Above 1G PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2018/7/4 15:58:36 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 24(°C)/51% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Amy Hsu |
| Test Mode: | 2.44135G-TX | | |
| Remark: | setting:0x18 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 23601.500 | 5.54 | 41.47 | 47.01 | 74.00 | -26.99 | peak | 100 | 199 | |



| | | | |
|-----------------------|--------------------------------------|---------------------------|--------------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC Above 1G PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2018/8/8 21:36:55 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 20(°C)/55% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Amy Hsu |
| Test Mode: | 2.447.35-TX | | |
| Remark: | setting:0x07 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 19232.500 | 4.13 | 42.68 | 46.81 | 74.00 | -27.19 | peak | | 0 | |



| | | | |
|-----------------------|--------------------------------------|---------------------------|--------------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC Above 1G PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2018/8/8 21:37:58 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 20(°C)/55% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Amy Hsu |
| Test Mode: | 2.447.35-TX | | |
| Remark: | setting:0x07 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 22556.000 | 4.72 | 41.60 | 46.32 | 74.00 | -27.68 | peak | 100 | 96 | |

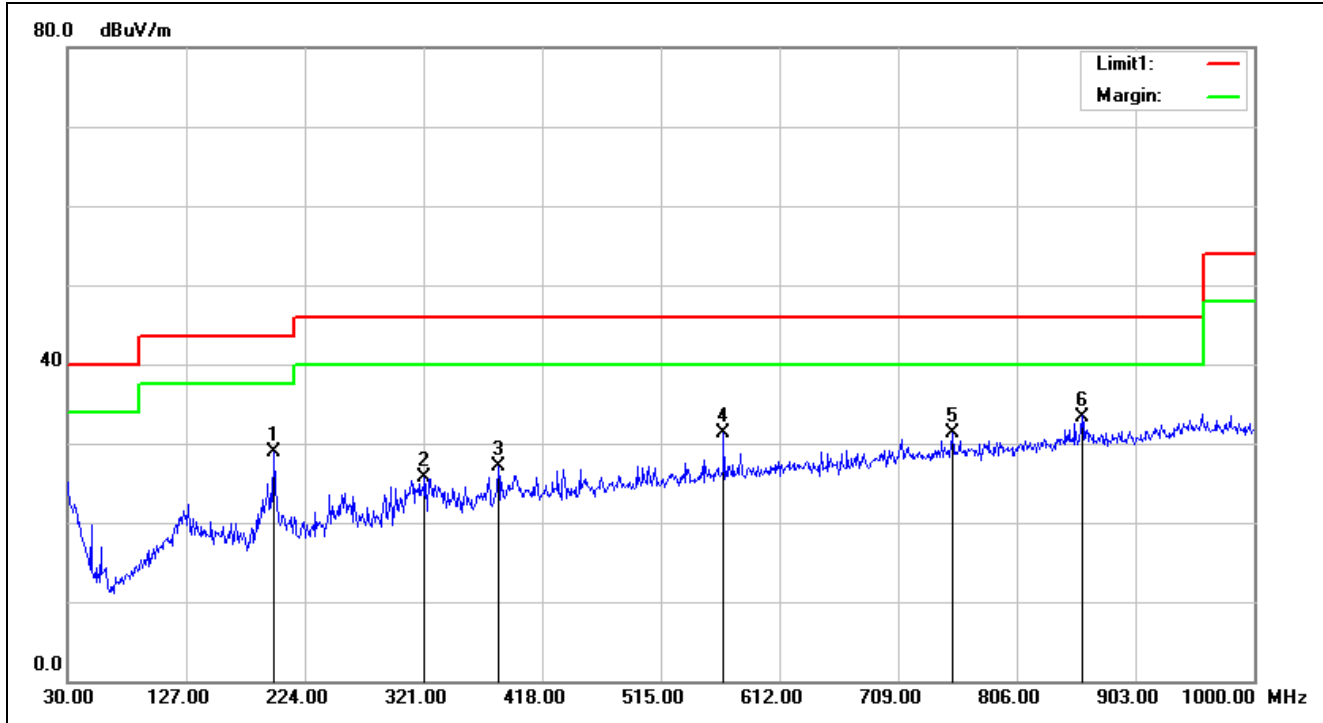
Spurious Emissions, TX Mode, 30M-1G



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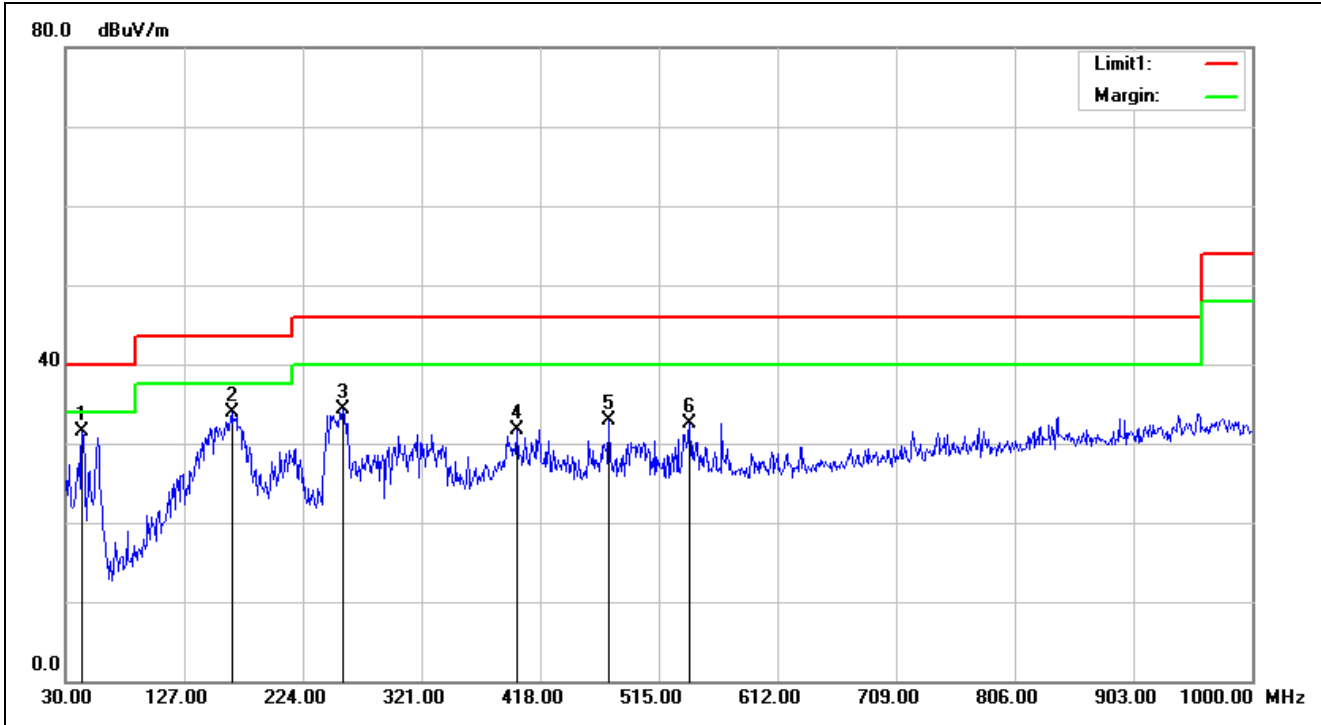
Tel:+886-2172-7000 fax:+886-2528-0018



| | | | |
|-----------------------|-------------------------------|---------------------------|-------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC Class B 3M Radiation | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2018/7/4 15:21:19 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 24(°C)/51% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Amy Hsu |
| Test Mode: | 2.44135G-TX | | |
| Remark: | setting:0x18 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 198.7800 | -8.88 | 37.79 | 28.91 | 43.50 | -14.59 | QP | 100 | 301 | |
| 2 | 321.9700 | -3.92 | 29.60 | 25.68 | 46.00 | -20.32 | QP | 100 | 116 | |
| 3 | 382.1099 | -2.63 | 29.74 | 27.11 | 46.00 | -18.89 | QP | 100 | 140 | |
| 4 | 566.4099 | -0.14 | 31.41 | 31.27 | 46.00 | -14.73 | QP | 100 | 249 | |
| 5 | 753.6200 | 2.57 | 28.70 | 31.27 | 46.00 | -14.73 | QP | 100 | 157 | |
| 6 | 859.3500 | 4.00 | 29.40 | 33.40 | 46.00 | -12.60 | QP | 100 | 236 | |

Spurious Emissions, TX Mode, 30M-1G



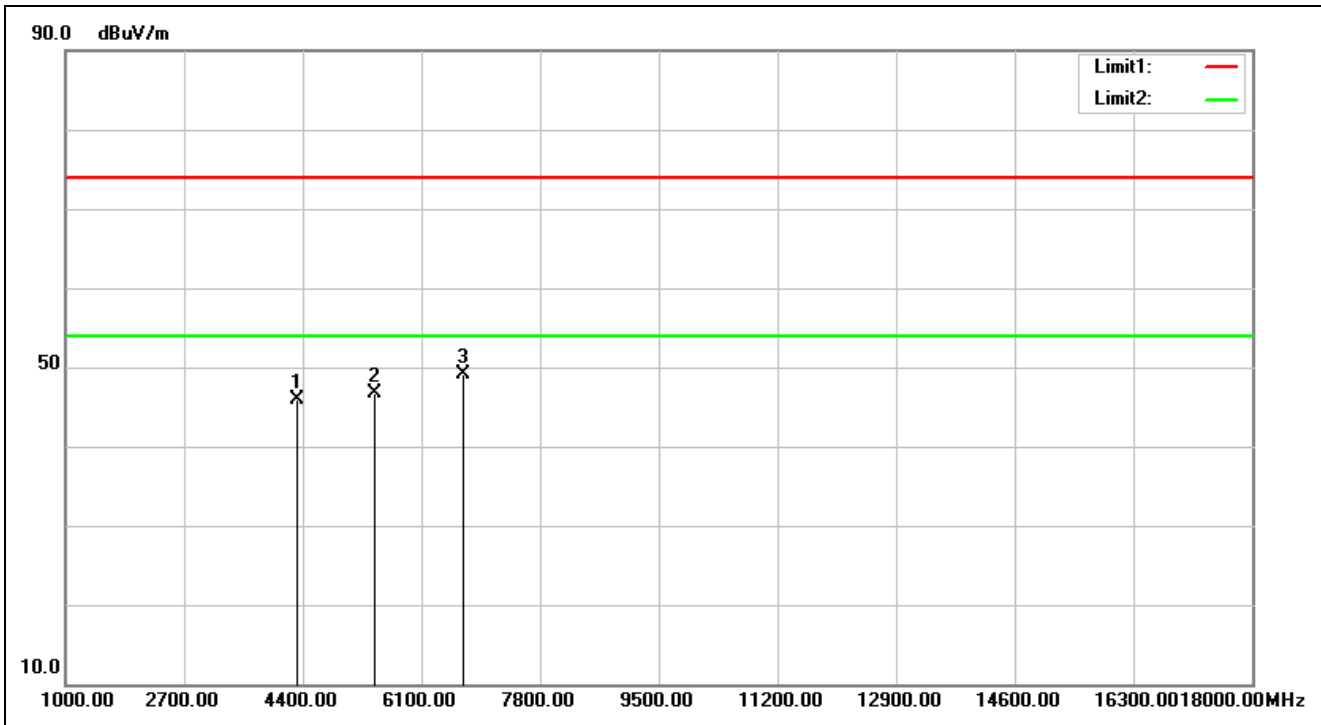
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|-----------------------|--------------------------------------|---------------------------|--------------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC Class B 3M Radiation | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2018/7/4 15:22:23 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 24(°C)/51% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Amy Hsu |
| Test Mode: | 2.44135G-TX | | |
| Remark: | setting:0x18 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 43.5800 | -7.94 | 39.49 | 31.55 | 40.00 | -8.45 | QP | 100 | 19 | |
| 2 | 165.8000 | -8.54 | 42.41 | 33.87 | 43.50 | -9.63 | QP | 100 | 133 | |
| 3 | 256.9800 | -5.09 | 39.49 | 34.40 | 46.00 | -11.60 | QP | 100 | 99 | |
| 4 | 399.5700 | -2.31 | 34.01 | 31.70 | 46.00 | -14.30 | QP | 100 | 187 | |
| 5 | 474.2600 | -1.41 | 34.38 | 32.97 | 46.00 | -13.03 | QP | 100 | 333 | |
| 6 | 540.2199 | -0.45 | 32.90 | 32.45 | 46.00 | -13.55 | QP | 100 | 88 | |

Spurious Emissions, RX Mode, 1-18G



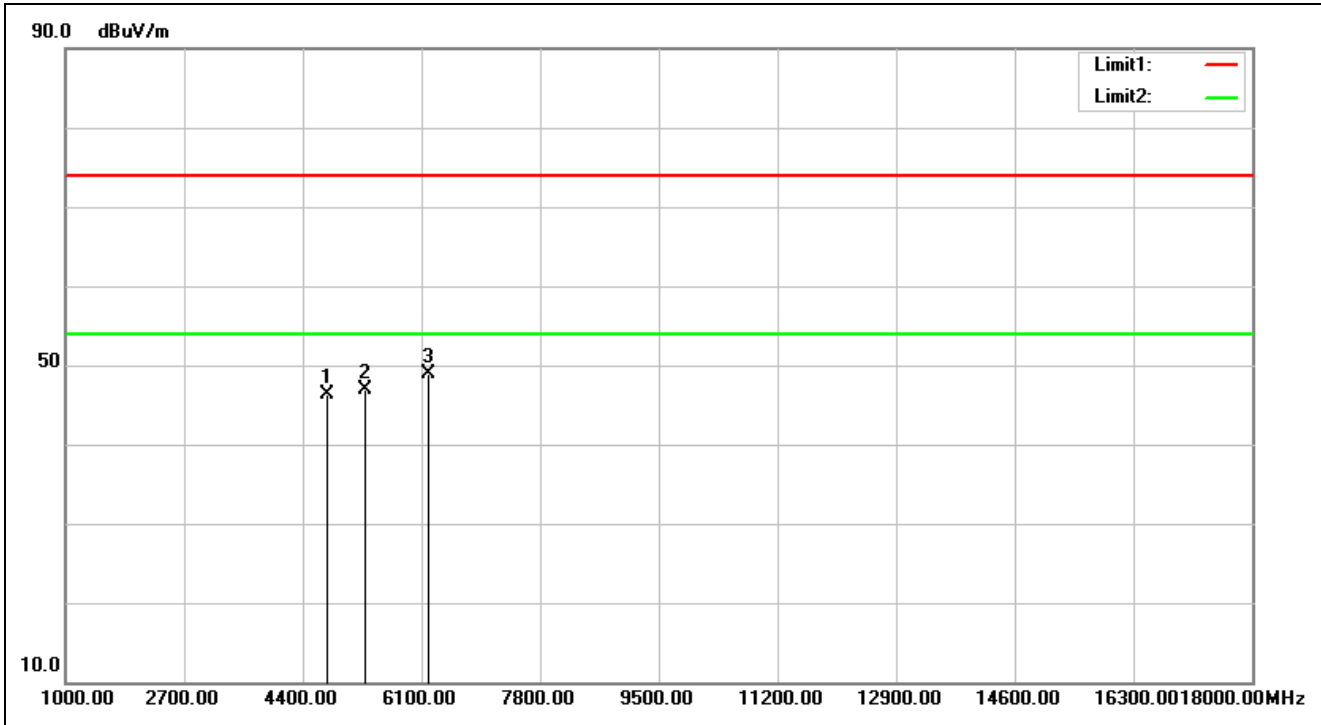
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| | | | |
|-----------------------|-------------------------------|---------------------------|-------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC Above 1G PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2018/7/2 16:16:52 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 21.2(°C)/55% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Curry Chen |
| Test Mode: | 2.44135G-RX | | |
| Remark: | setting:0x18 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 4315.000 | -4.50 | 50.42 | 45.92 | 74.00 | -28.08 | peak | 100 | 256 | |
| 2 | 5437.000 | -1.09 | 47.70 | 46.61 | 74.00 | -27.39 | peak | 100 | 56 | |
| 3 | 6695.000 | 4.22 | 44.97 | 49.19 | 74.00 | -24.81 | peak | 100 | 180 | |

Spurious Emissions, RX Mode, 1-18G



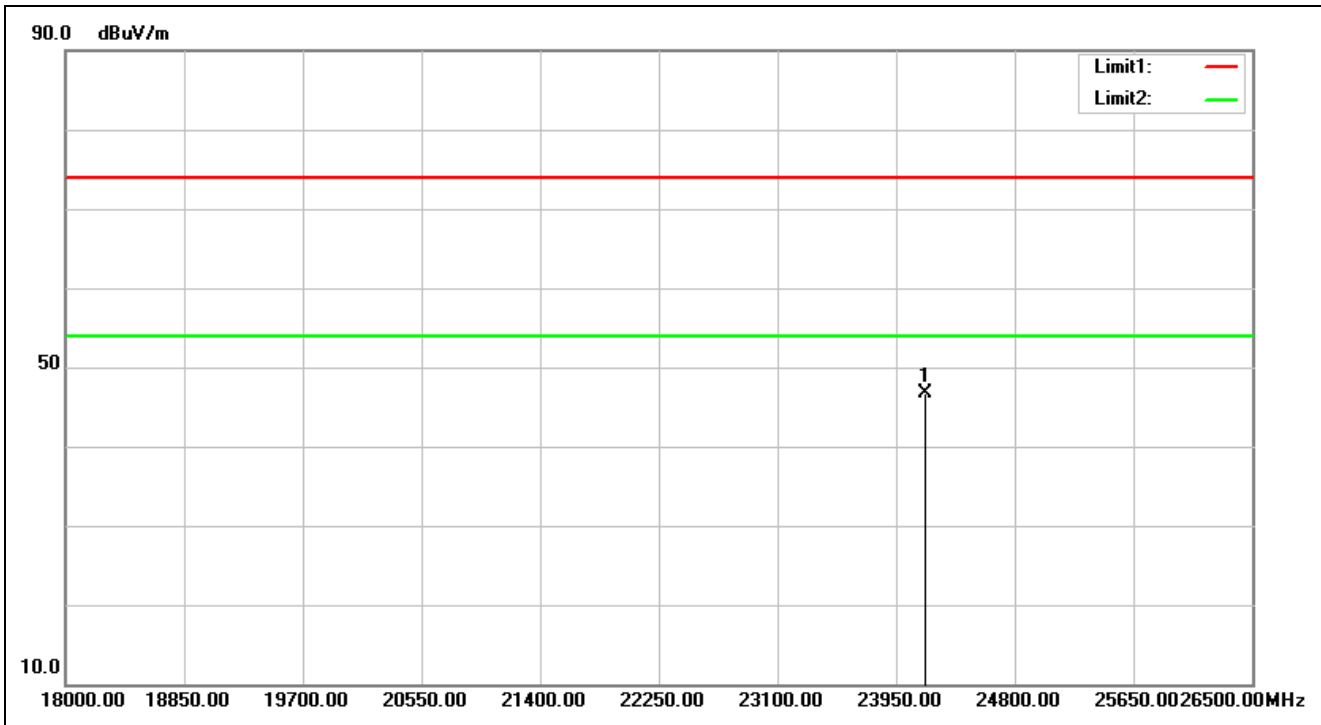
| | | | |
|-----------------------|-------------------------------|---------------------------|-------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC Above 1G PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2018/7/2 16:17:44 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 21.2(°C)/55% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Curry Chen |
| Test Mode: | 2.44135G-RX | | |
| Remark: | setting:0x18 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 4757.000 | -3.45 | 49.85 | 46.40 | 74.00 | -27.60 | peak | 100 | 13 | |
| 2 | 5284.000 | -1.77 | 48.72 | 46.95 | 74.00 | -27.05 | peak | 100 | 357 | |
| 3 | 6202.000 | 3.22 | 45.68 | 48.90 | 74.00 | -25.10 | peak | 100 | 249 | |

Spurious Emissions, RX Mode, 18-26G

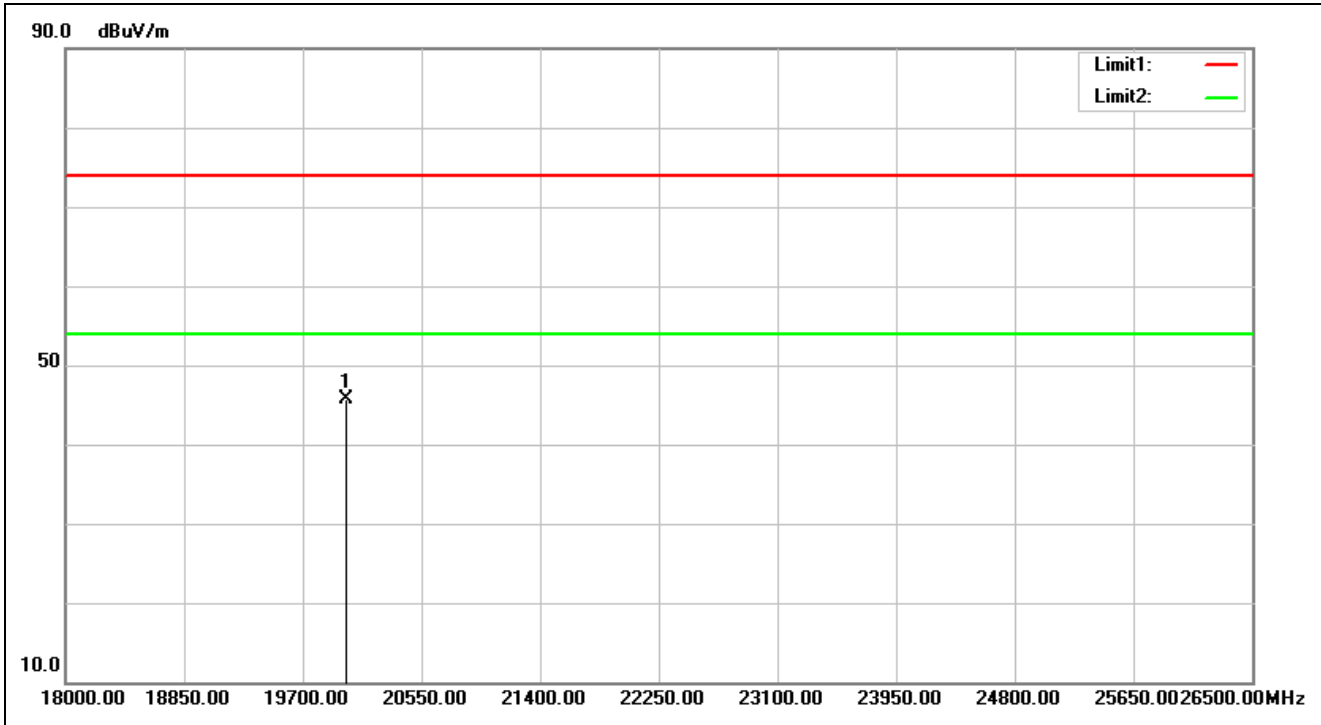


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| | | | |
|-----------------------|-------------------------------|---------------------------|-------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC Above 1G PEAK | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2018/7/4 16:00:19 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 24(°C)/51% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Amy Hsu |
| Test Mode: | 2.44135G-RX | | |
| Remark: | setting:0x18 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 24162.500 | 5.21 | 41.46 | 46.67 | 74.00 | -27.33 | peak | 100 | 148 | |



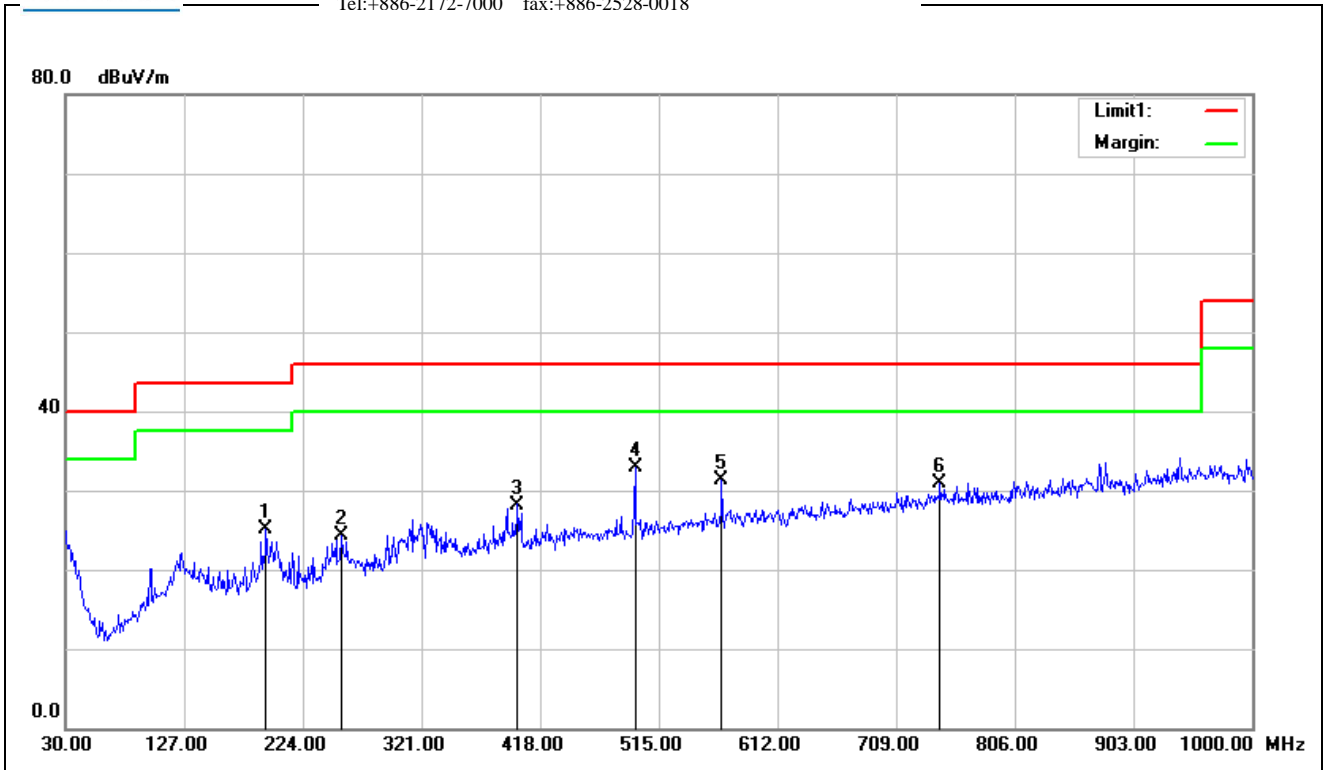
| | | | |
|-----------------------|--------------------------------------|---------------------------|--------------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC Above 1G PEAK | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2018/7/4 16:00:33 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 24(°C)/51% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Amy Hsu |
| Test Mode: | 2.44135G-RX | | |
| Remark: | setting:0x18 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 20014.500 | 4.05 | 41.68 | 45.73 | 74.00 | -28.27 | peak | 100 | 136 | |

Spurious Emissions, RX Mode, 30M-1G

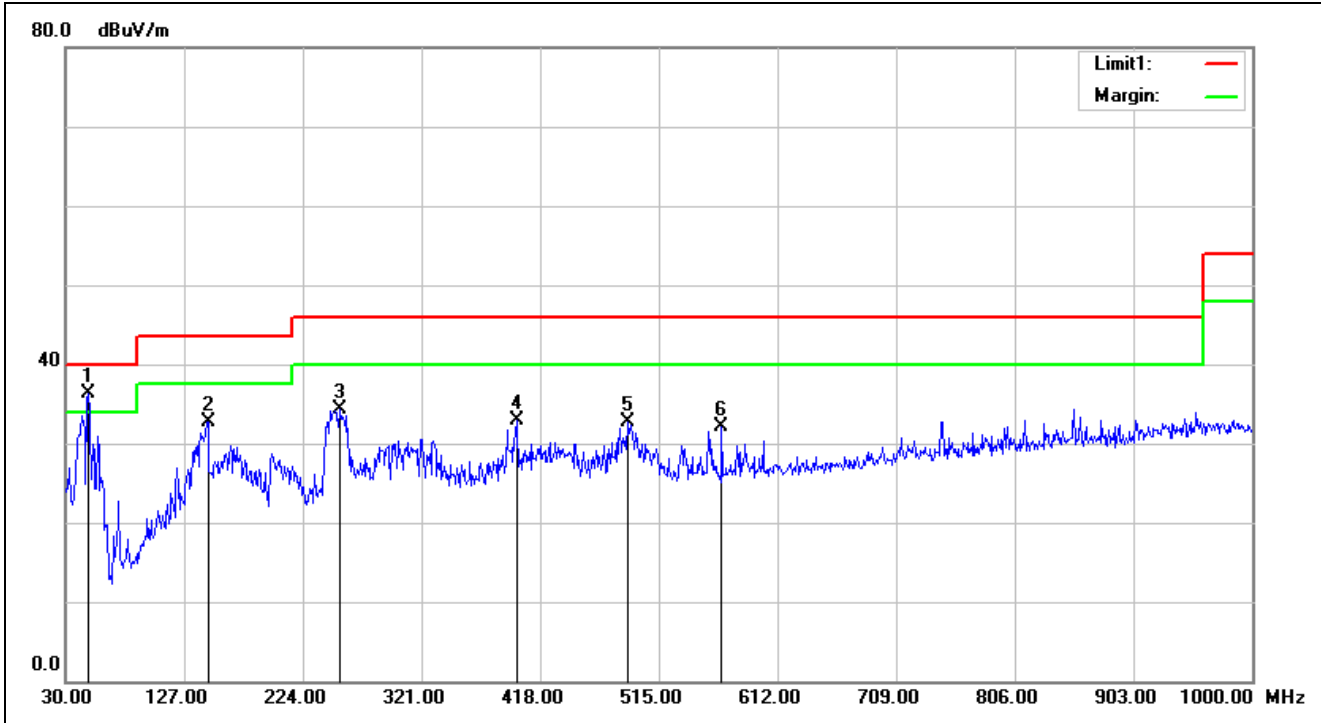


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| | | | |
|-----------------------|-------------------------------|---------------------------|-------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC Class B 3M Radiation | Ant. Polarization: | Horizontal |
| Test item: | Radiation Emission | Test Time: | 2018/7/4 15:24:47 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 24(°C)/51% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Amy Hsu |
| Test Mode: | 2.44135G-RX | | |
| Remark: | setting:0x18 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 193.9299 | -9.21 | 34.41 | 25.20 | 43.50 | -18.30 | QP | 100 | 120 | |
| 2 | 256.0099 | -5.18 | 29.52 | 24.34 | 46.00 | -21.66 | QP | 100 | 163 | |
| 3 | 399.5699 | -2.31 | 30.51 | 28.20 | 46.00 | -17.80 | QP | 100 | 201 | |
| 4 | 495.6000 | -1.11 | 33.98 | 32.87 | 46.00 | -13.13 | QP | 100 | 245 | |
| 5 | 566.4099 | -0.14 | 31.52 | 31.38 | 46.00 | -14.62 | QP | 100 | 106 | |
| 6 | 744.8899 | 2.43 | 28.40 | 30.83 | 46.00 | -15.17 | QP | 100 | 264 | |



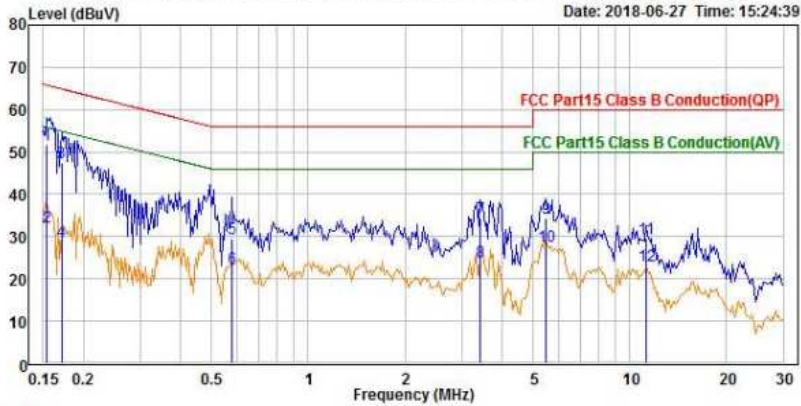
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|-----------------------|--------------------------------------|---------------------------|--------------------------|
| Service No.: | 114078980(HX-HSCSW,HXS-HSWA) | Test Distance: | 3m |
| Test Standard: | NCC Class B 3M Radiation | Ant. Polarization: | Vertical |
| Test item: | Radiation Emission | Test Time: | 2018/7/4 15:25:51 |
| Applicant: | Kingston | Test Rating: | DC 5V |
| Product: | HyperX Cloud Stinger Wireless | Temp.(°C)/Hum.(%): | 24(°C)/51% |
| Model No.: | HXS-HSWA(Wireless adapter) | Test Engineer: | Amy Hsu |
| Test Mode: | 2.44135G-RX | | |
| Remark: | setting:0x18 | | |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (°) | Remark |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|-------------|-------------|--------|
| 1 | 48.4299 | -10.52 | 46.90 | 36.38 | 40.00 | -3.62 | QP | 100 | 117 | |
| 2 | 146.4000 | -7.16 | 39.93 | 32.77 | 43.50 | -10.73 | QP | 100 | 136 | |
| 3 | 254.0700 | -5.34 | 39.57 | 34.23 | 46.00 | -11.77 | QP | 100 | 158 | |
| 4 | 398.6000 | -2.32 | 35.27 | 32.95 | 46.00 | -13.05 | QP | 100 | 179 | |
| 5 | 489.7800 | -1.19 | 33.90 | 32.71 | 46.00 | -13.29 | QP | 100 | 187 | |
| 6 | 566.4099 | -0.14 | 32.19 | 32.05 | 46.00 | -13.95 | QP | 100 | 94 | |

Mains Spurious Emissions



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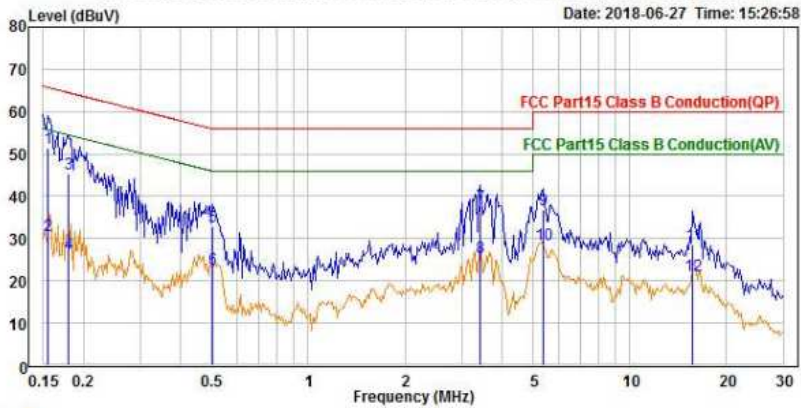


Trace: 1
 Site : Conduction room
 Condition : FCC Part15 Class B Conduction(QP) line1
 Test Engineer: Wade Cheng
 Applicant : Kingston
 Product : Wireless Adapter
 Model No. : HXS-HSWA
 Test Rating : 120Vac/60Hz
 Tmp/Hum : 21.3°C/38%
 Memo : Normal link

| | Read | Read | Limit | Over | | |
|------|--------|--------|-------|-------|-------|----------------|
| Freq | Level | Factor | Level | Line | Limit | Remark |
| MHz | dBuV | dB | dBuV | dBuV | dB | |
| 1 | 0.153 | 41.93 | 9.68 | 51.61 | 65.83 | -14.22 QP |
| 2 | 0.153 | 22.66 | 9.68 | 32.34 | 55.83 | -23.49 Average |
| 3 | 0.171 | 37.83 | 9.68 | 47.51 | 64.93 | -17.42 QP |
| 4 | 0.171 | 19.31 | 9.68 | 28.99 | 54.93 | -25.94 Average |
| 5 | 0.580 | 19.71 | 9.69 | 29.40 | 56.00 | -26.60 QP |
| 6 | 0.580 | 12.82 | 9.69 | 22.51 | 46.00 | -23.49 Average |
| 7 | 3.435 | 24.63 | 9.74 | 34.37 | 56.00 | -21.63 QP |
| 8 | 3.435 | 14.27 | 9.74 | 24.01 | 46.00 | -21.99 Average |
| 9 | 5.481 | 24.56 | 9.77 | 34.33 | 60.00 | -25.67 QP |
| 10 | 5.481 | 17.78 | 9.77 | 27.55 | 50.00 | -22.45 Average |
| 11 | 11.213 | 19.61 | 9.83 | 29.44 | 60.00 | -30.56 QP |
| 12 | 11.213 | 13.23 | 9.83 | 23.06 | 50.00 | -26.94 Average |



File: C:\EMC\Report2018\Kingston\114078980(HXS-HSWA)\114078980(HXS-HSWA)_00003.EMI



Trace: 1
 Site : Conduction room
 Condition : FCC Part15 Class B Conduction(QP) neutral
 Test Engineer: Wade Cheng
 Applicant : Kingston
 Product : Wireless Adapter
 Model No. : HXS-HSWA
 Test Rating : 120Vac/60Hz
 Tmp/Hum : 21.3°C/38%
 Memo : Normal link

| | Freq | Read | | Level | Limit | Over | Remark |
|----|--------|-------|--------|-------|-------|--------|---------|
| | | Level | Factor | | Line | Limit | |
| | MHz | dBuV | dB | dBuV | dBuV | dB | |
| 1 | 0.155 | 41.72 | 9.68 | 51.40 | 65.75 | -14.35 | QP |
| 2 | 0.155 | 20.95 | 9.68 | 30.63 | 55.75 | -25.12 | Average |
| 3 | 0.179 | 35.61 | 9.68 | 45.29 | 64.51 | -19.22 | QP |
| 4 | 0.179 | 16.88 | 9.68 | 26.56 | 54.51 | -27.95 | Average |
| 5 | 0.504 | 23.06 | 9.68 | 32.74 | 56.00 | -23.26 | QP |
| 6 | 0.504 | 13.13 | 9.68 | 22.81 | 46.00 | -23.19 | Average |
| 7 | 3.435 | 27.86 | 9.74 | 37.60 | 56.00 | -18.40 | QP |
| 8 | 3.435 | 15.96 | 9.74 | 25.70 | 46.00 | -20.30 | Average |
| 9 | 5.374 | 26.94 | 9.77 | 36.71 | 60.00 | -23.29 | QP |
| 10 | 5.374 | 18.70 | 9.77 | 28.47 | 50.00 | -21.53 | Average |
| 11 | 15.722 | 18.81 | 9.88 | 28.69 | 60.00 | -31.31 | QP |
| 12 | 15.722 | 11.37 | 9.88 | 21.25 | 50.00 | -28.75 | Average |