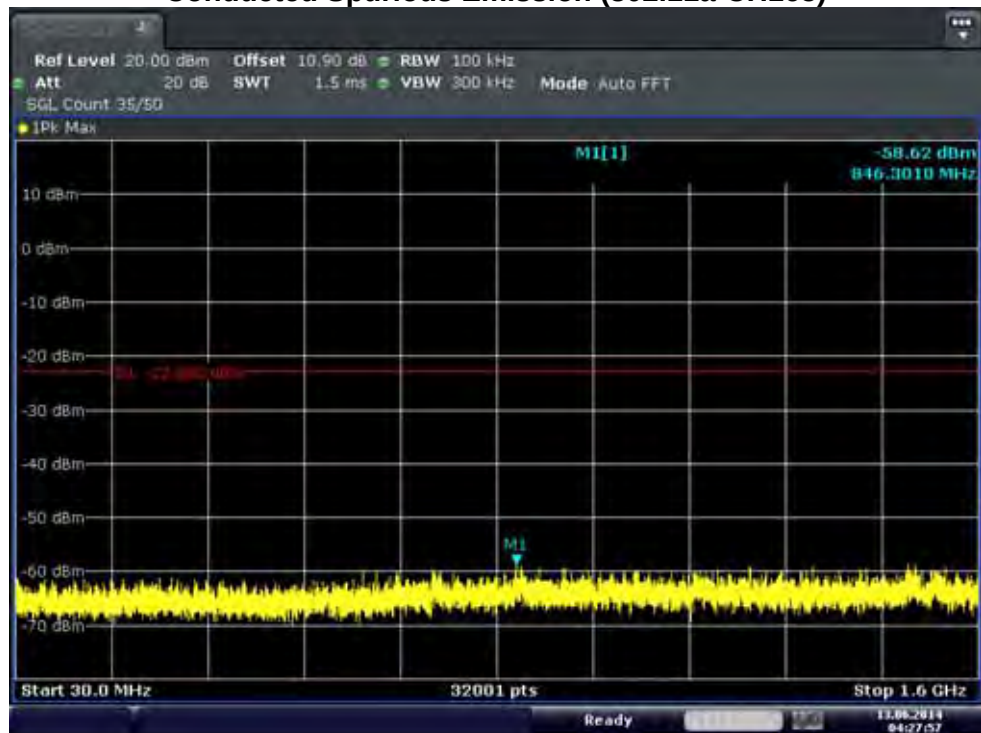


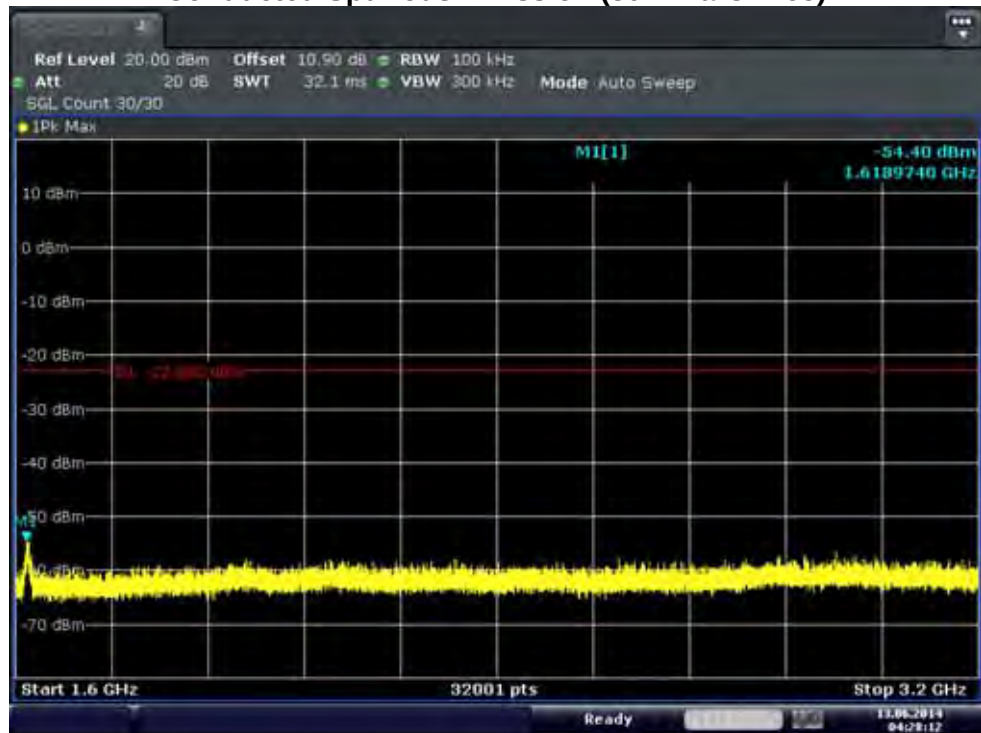
5.8 GHz Band 30 MHz ~ 1.6 GHz

Conducted Spurious Emission (802.11a-CH165)



1.6 GHz ~ 3.2 GHz

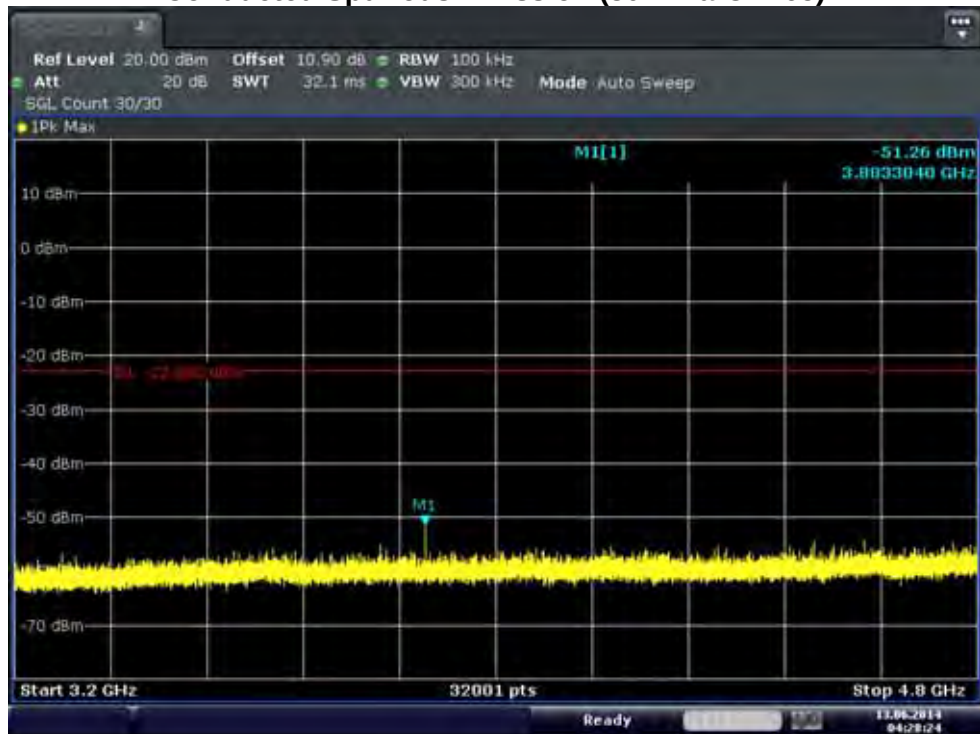
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

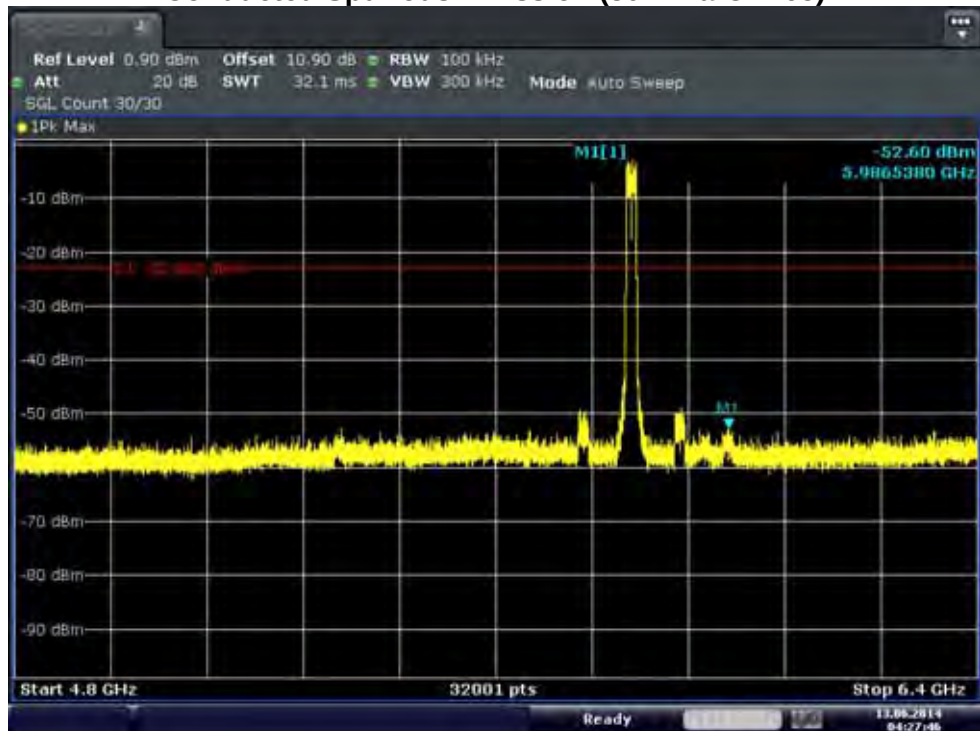
3.2 GHz ~ 4.8 GHz

Conducted Spurious Emission (802.11a-CH165)



4.8 GHz ~ 6.4 GHz

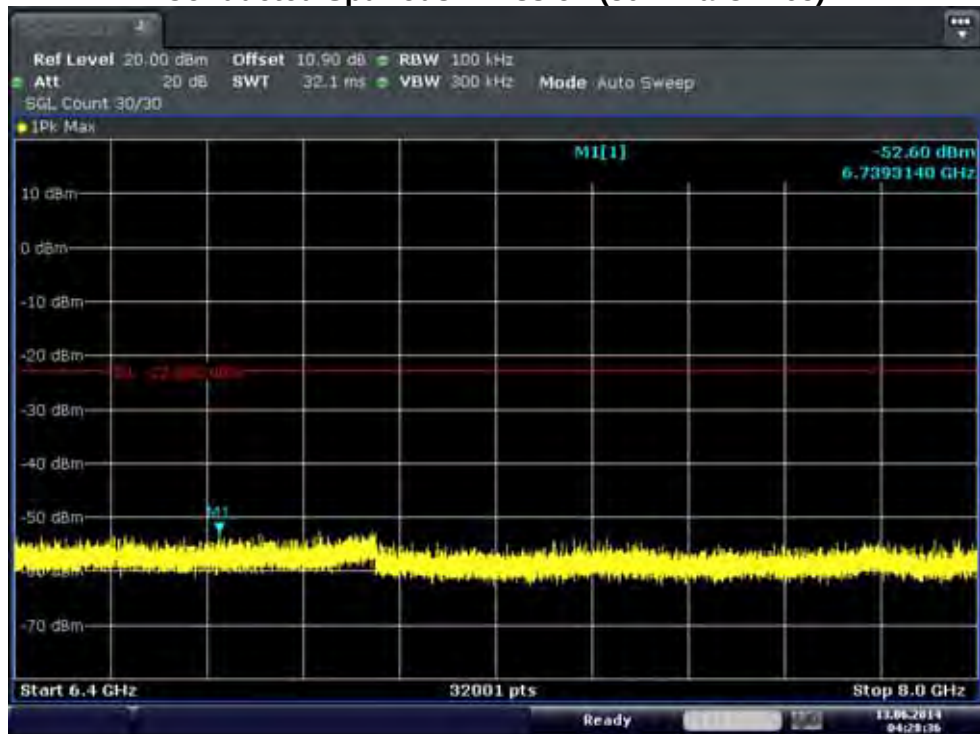
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

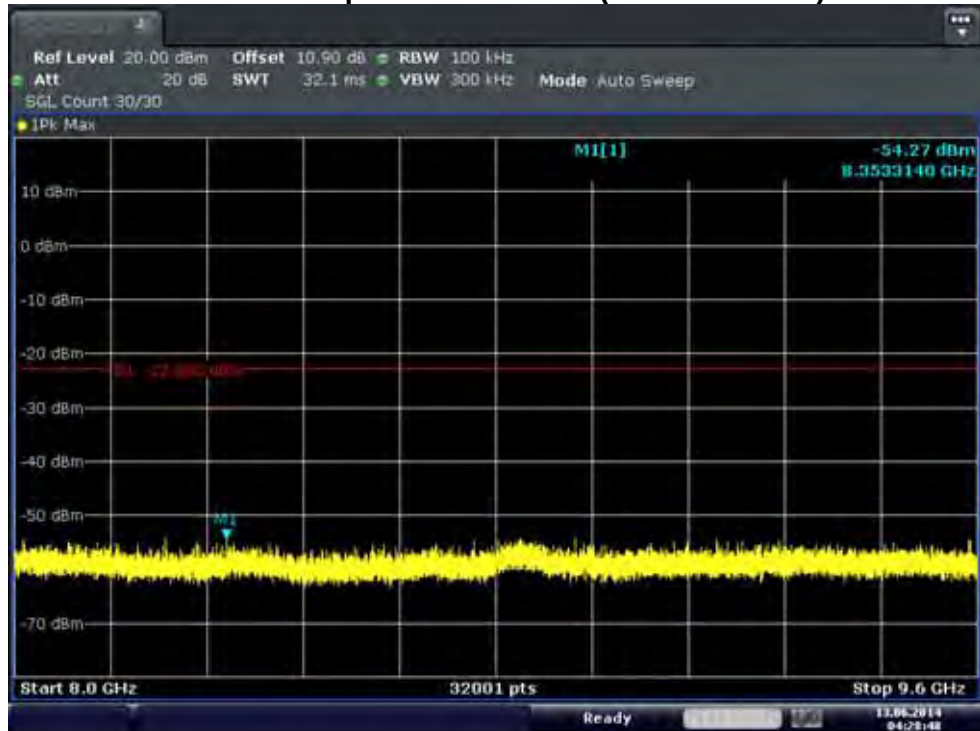
6.4 GHz ~ 8 GHz

Conducted Spurious Emission (802.11a-CH165)



8 GHz ~ 9.6 GHz

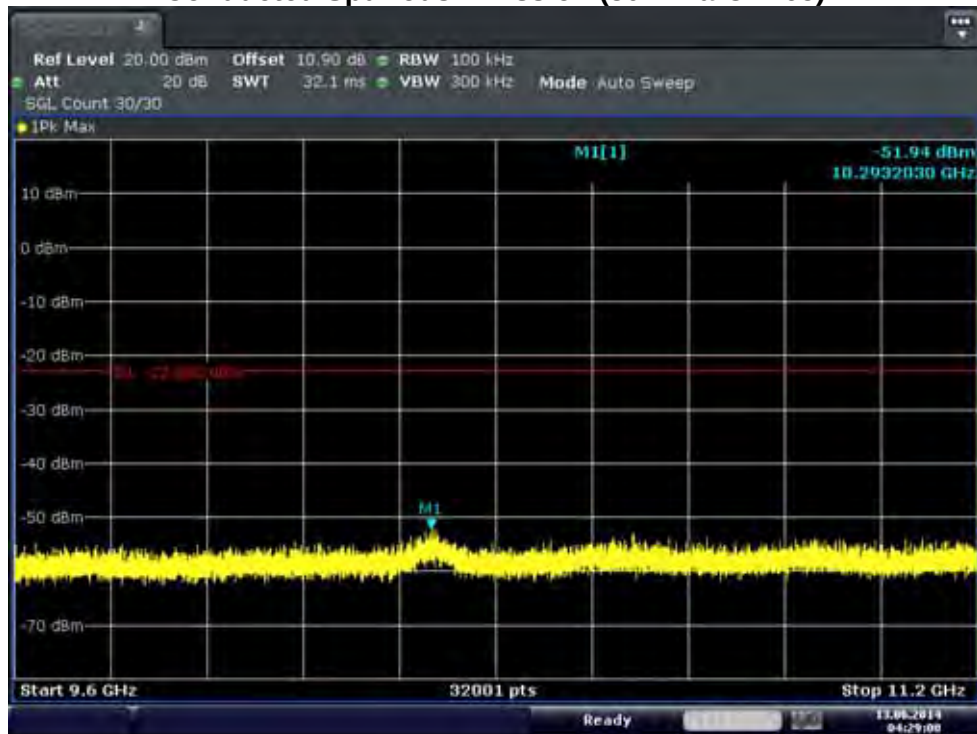
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

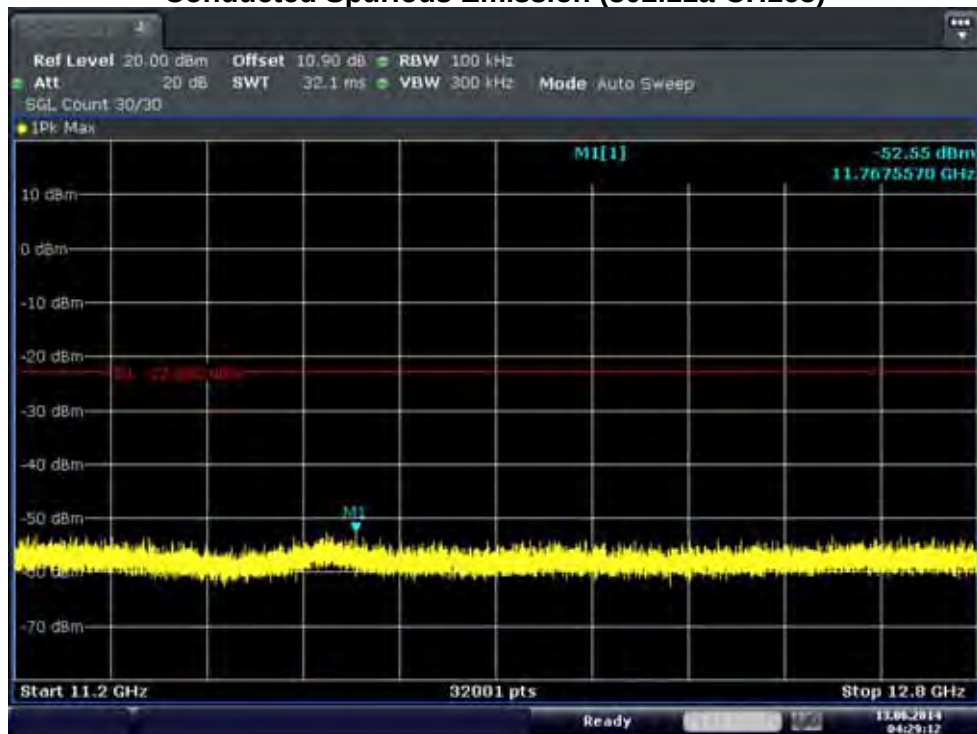
9.6 GHz ~ 11.2 GHz

Conducted Spurious Emission (802.11a-CH165)



11.2 GHz ~ 12.8 GHz

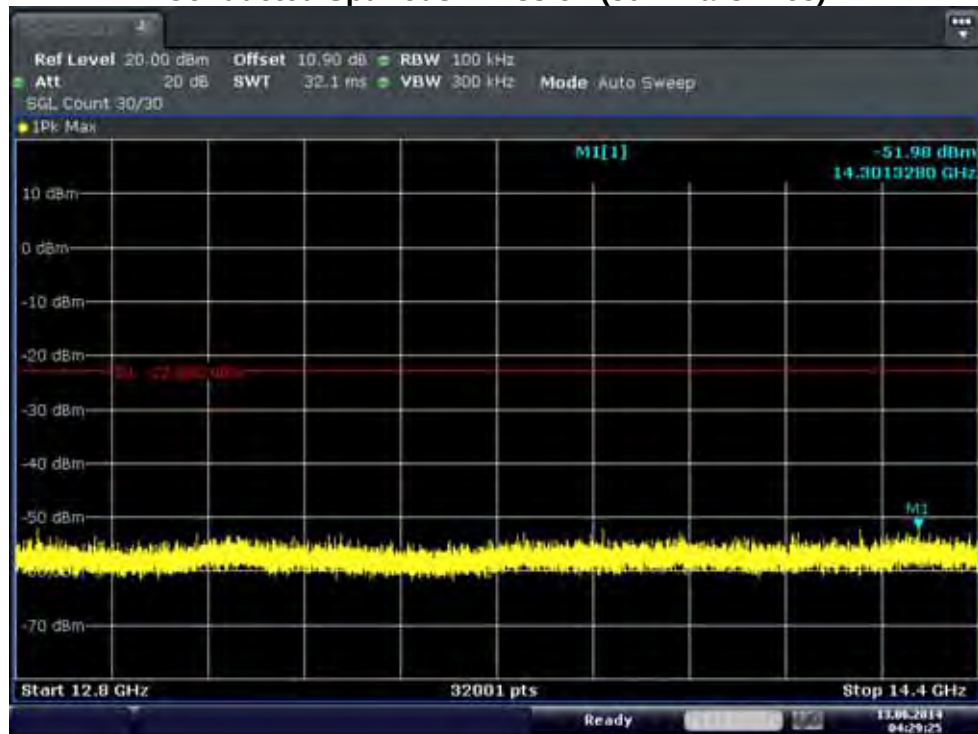
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

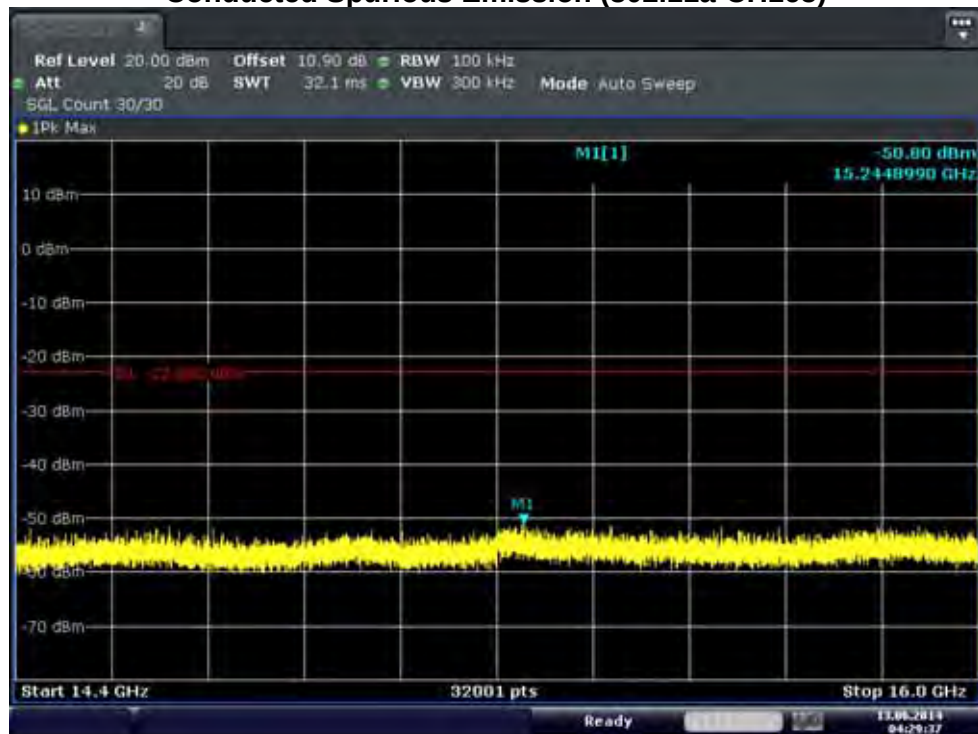
12.8 GHz ~ 12.8 GHz

Conducted Spurious Emission (802.11a-CH165)



14.4 GHz ~ 16 GHz

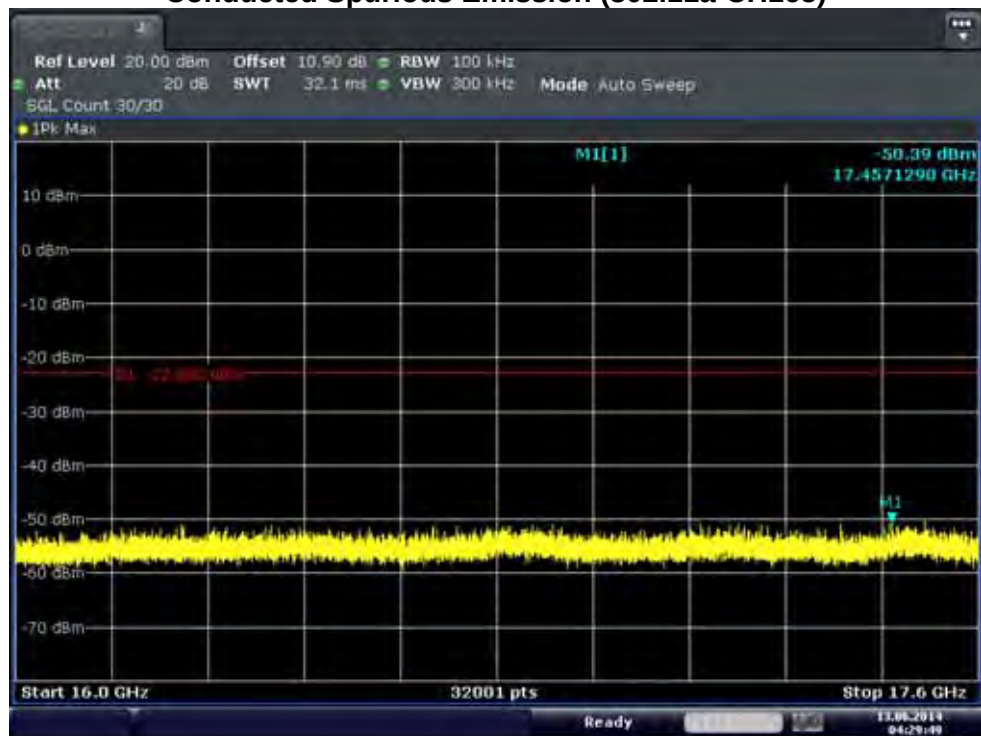
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

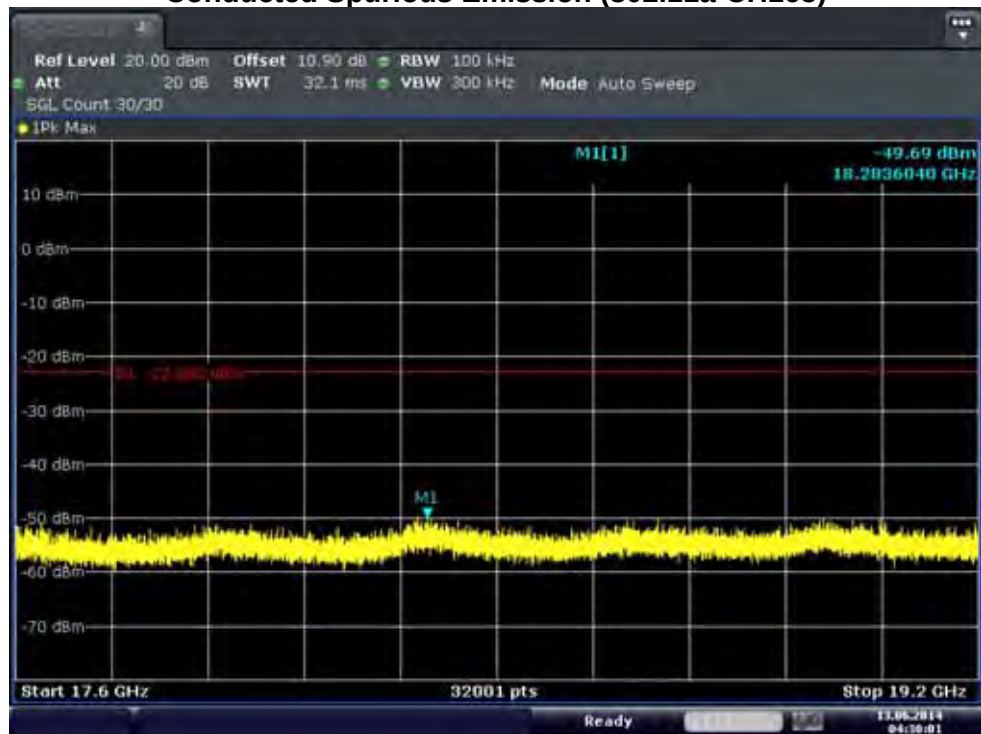
16 GHz ~ 17.6 GHz

Conducted Spurious Emission (802.11a-CH165)



17.6 GHz ~ 19.2 GHz

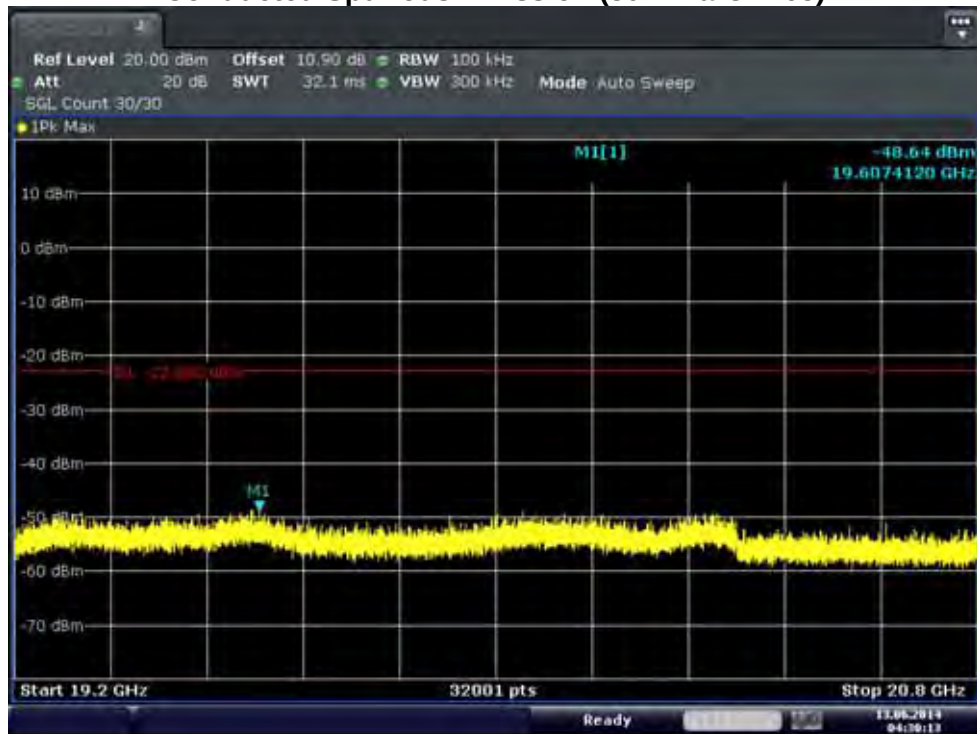
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

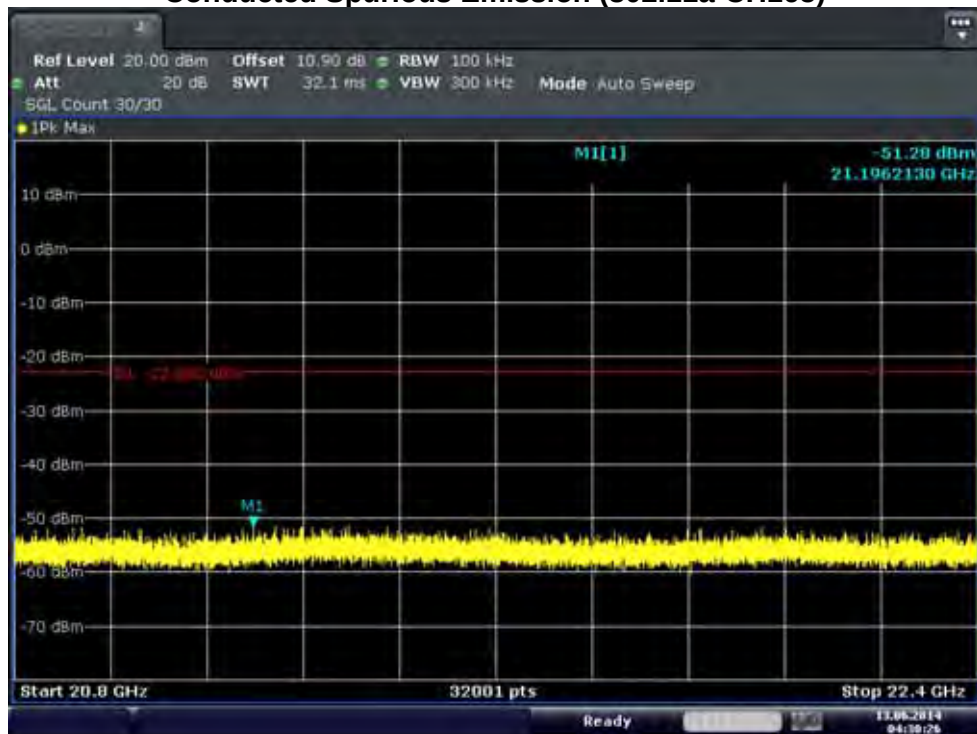
19.2 GHz ~ 20.8 GHz

Conducted Spurious Emission (802.11a-CH165)



20.8 GHz ~ 22.4 GHz

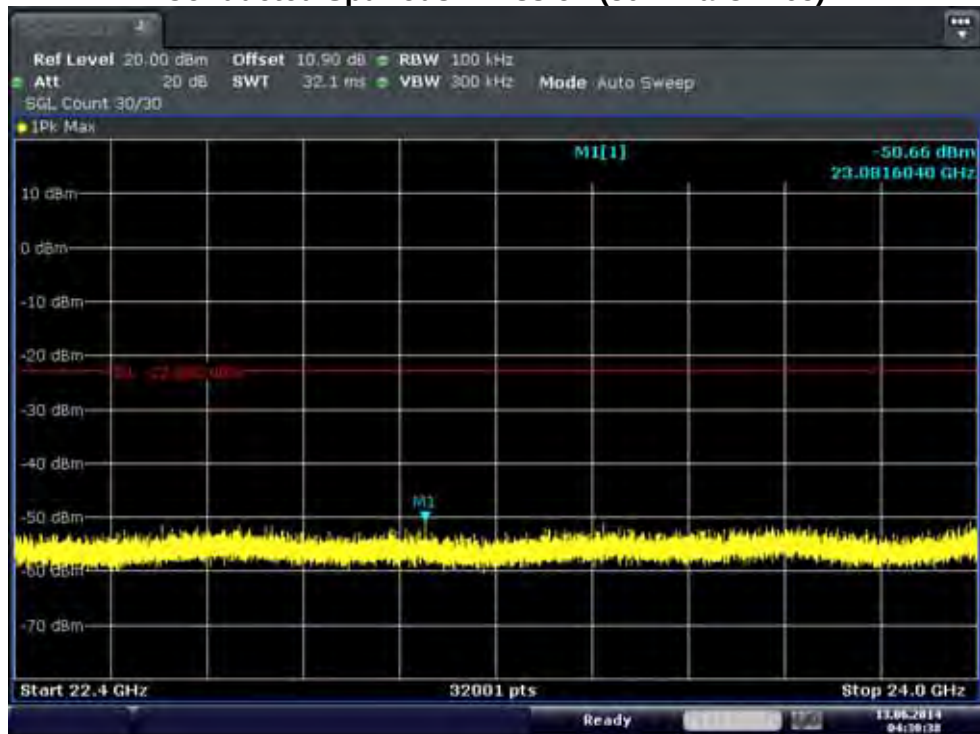
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

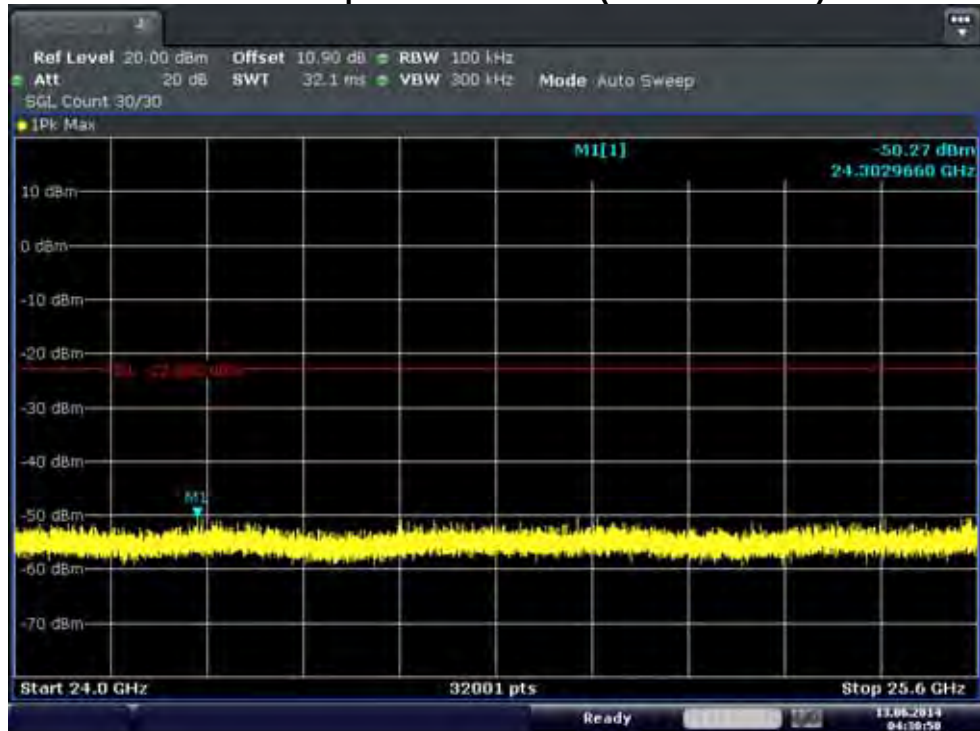
22.4 GHz ~ 24 GHz

Conducted Spurious Emission (802.11a-CH165)



24 GHz ~ 25.6 GHz

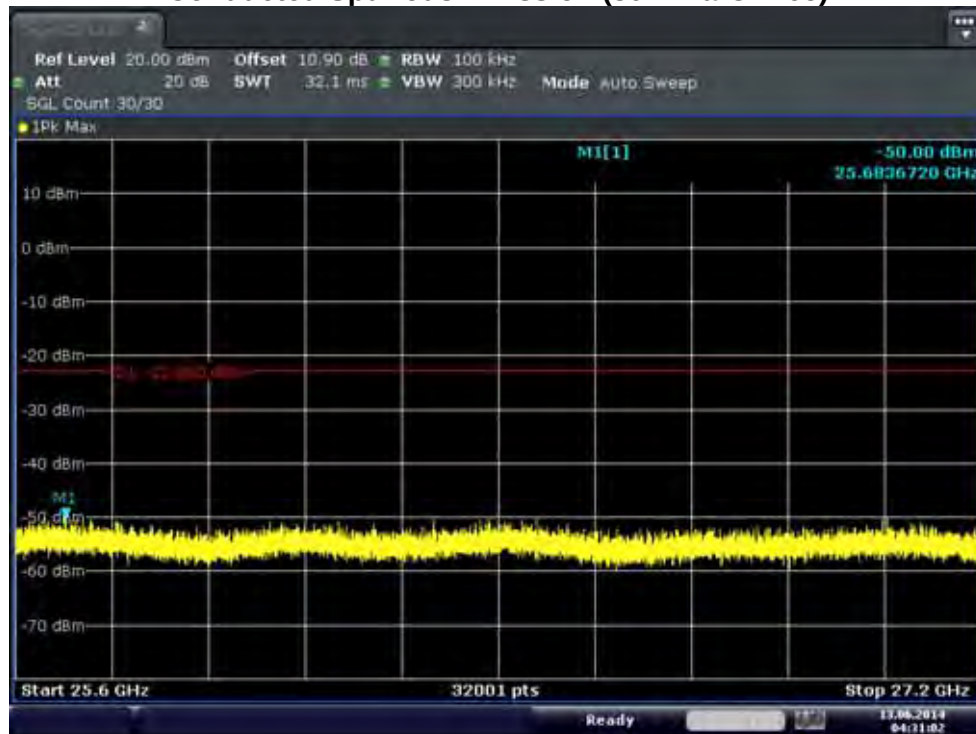
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

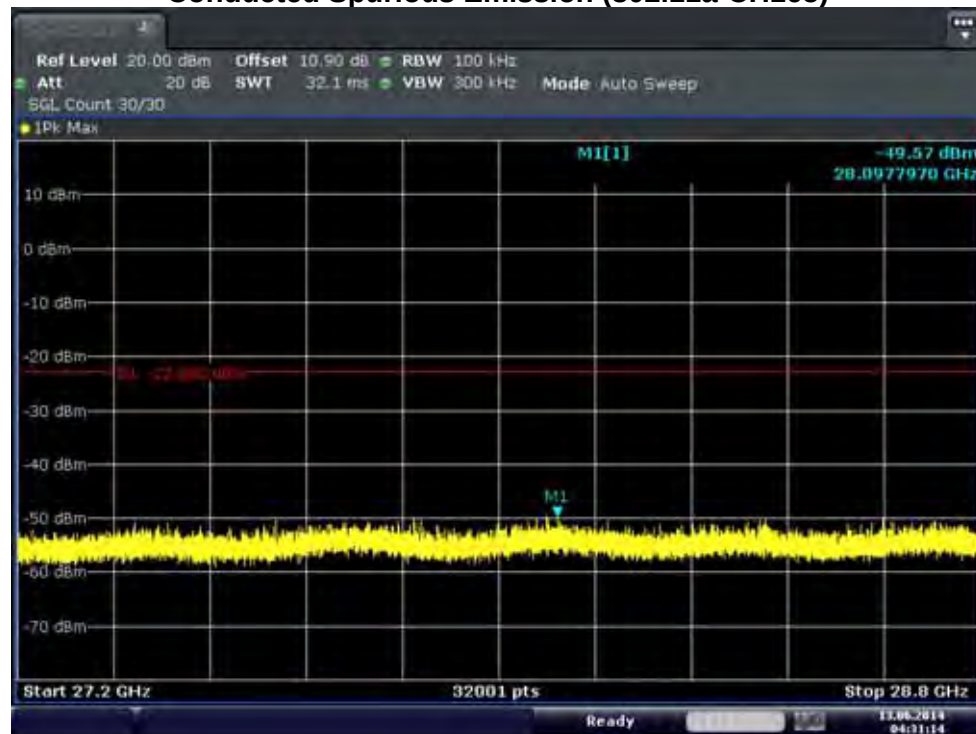
25.6 GHz ~ 27.2 GHz

Conducted Spurious Emission (802.11a-CH165)



27.2 GHz ~ 28.8 GHz

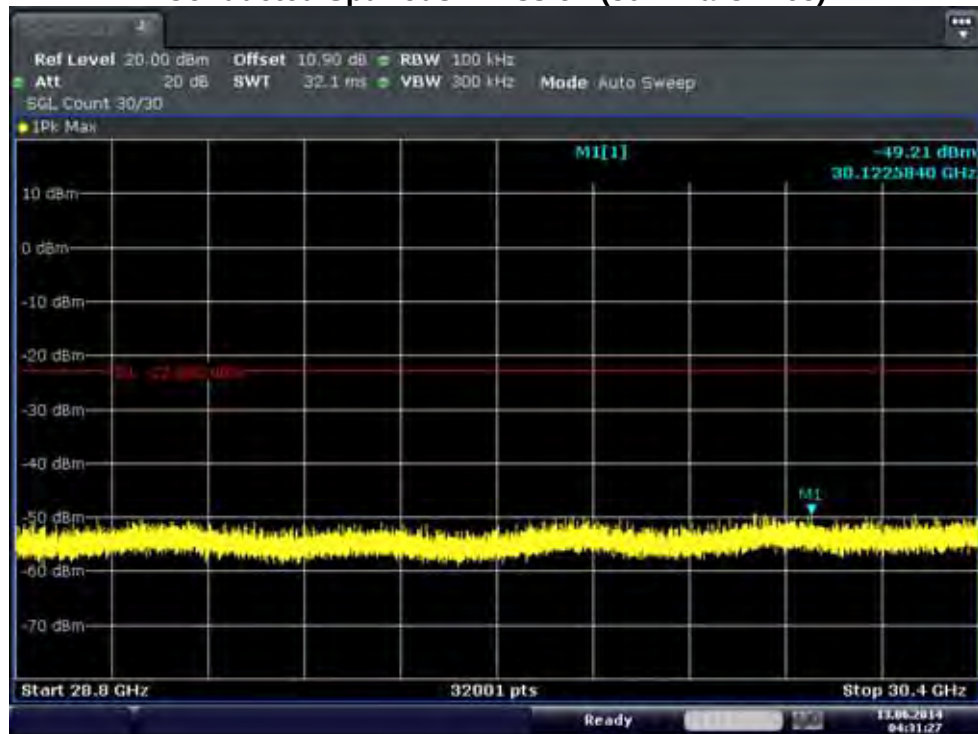
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

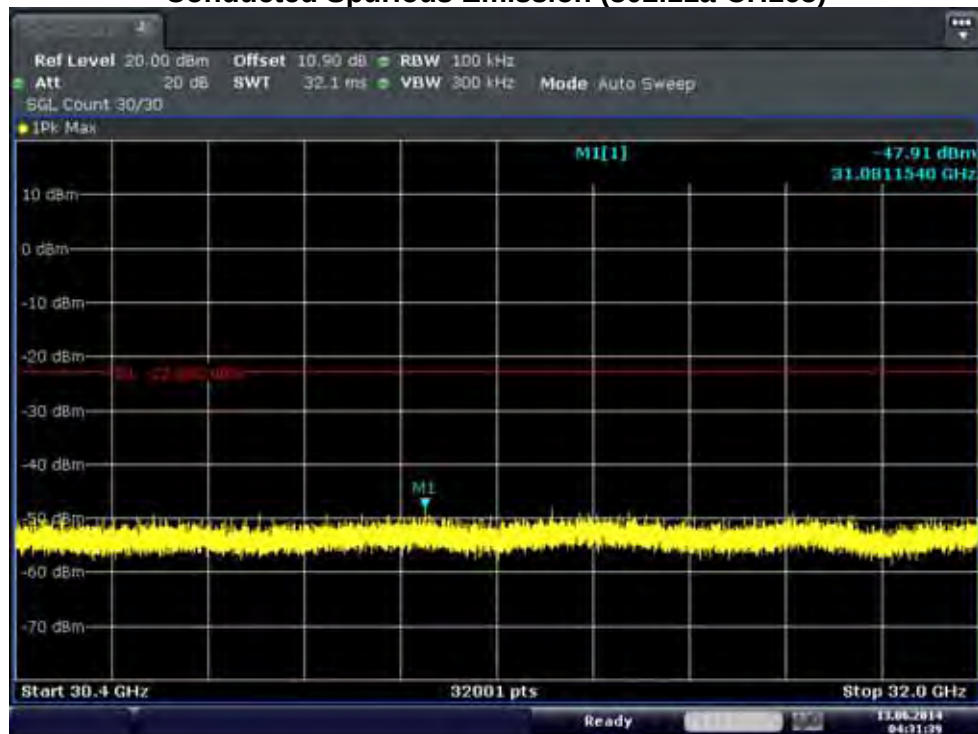
28.8 GHz ~ 30.4 GHz

Conducted Spurious Emission (802.11a-CH165)



30.4 GHz ~ 32 GHz

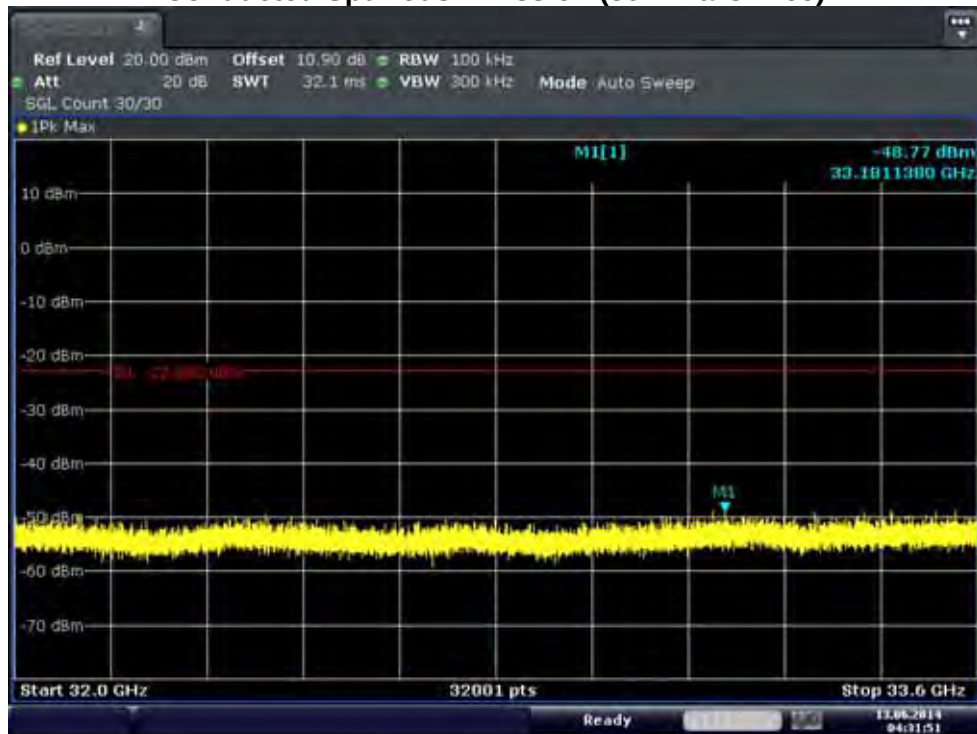
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

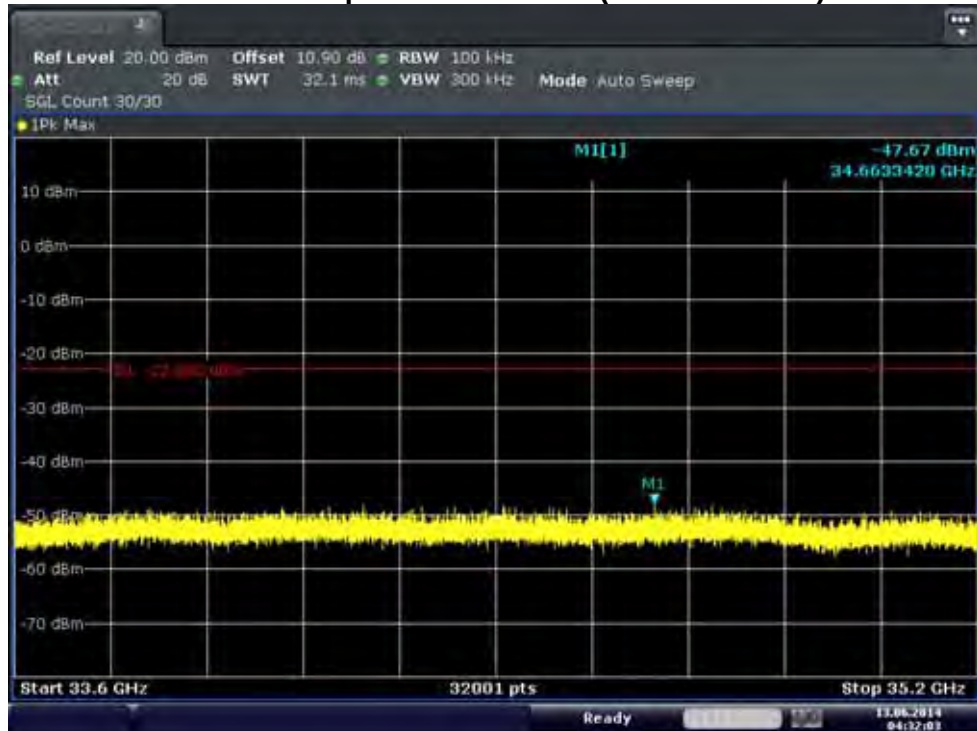
32 GHz ~ 33.6 GHz

Conducted Spurious Emission (802.11a-CH165)



33.6 GHz ~ 35.2 GHz

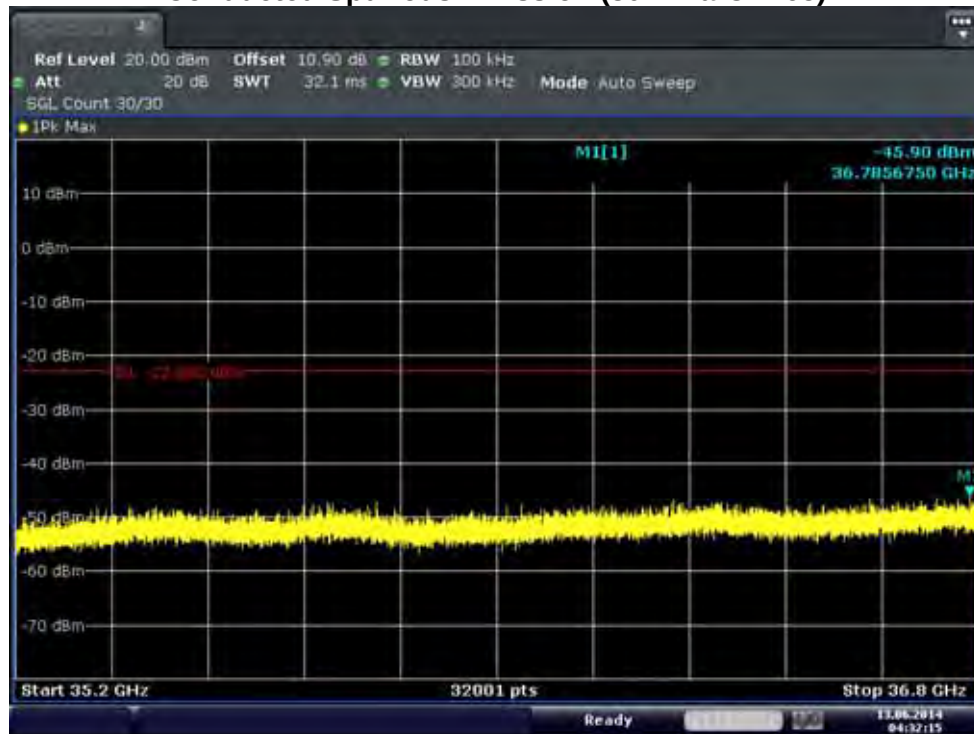
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

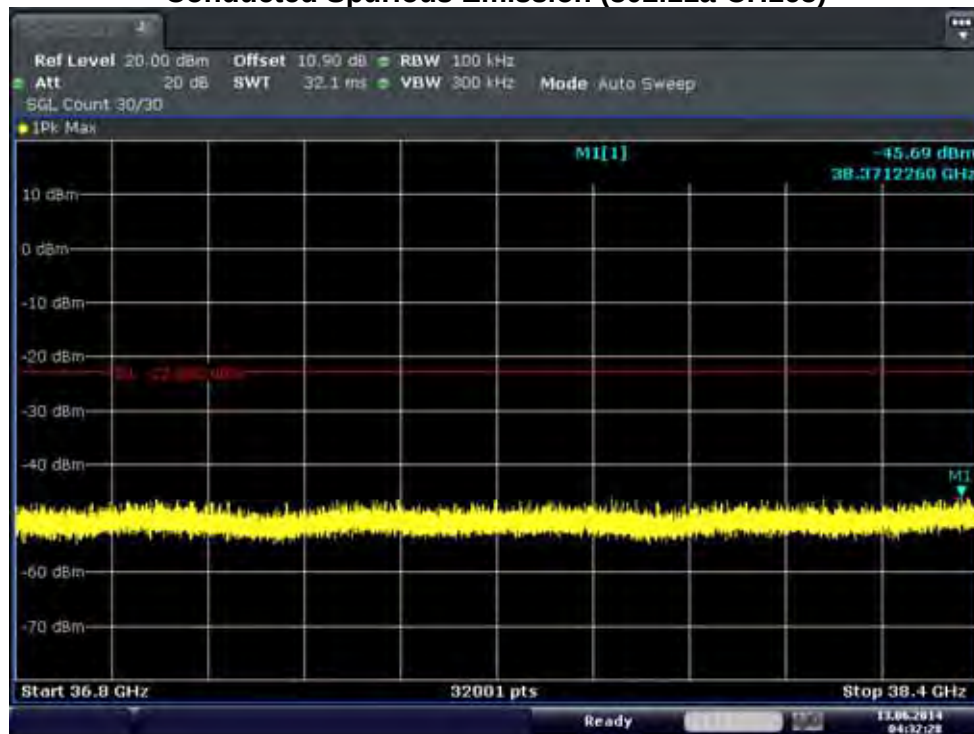
35.2 GHz ~ 36.8 GHz

Conducted Spurious Emission (802.11a-CH165)



36.8 GHz ~ 38.4 GHz

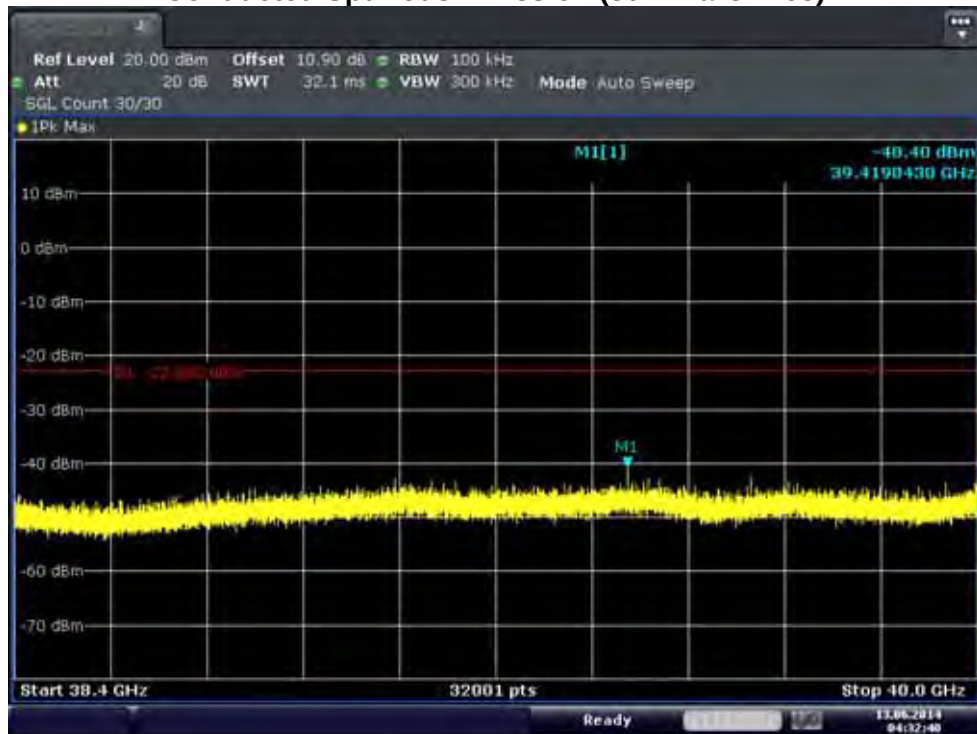
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

38.4 GHz ~ 40 GHz

Conducted Spurious Emission (802.11a-CH165)



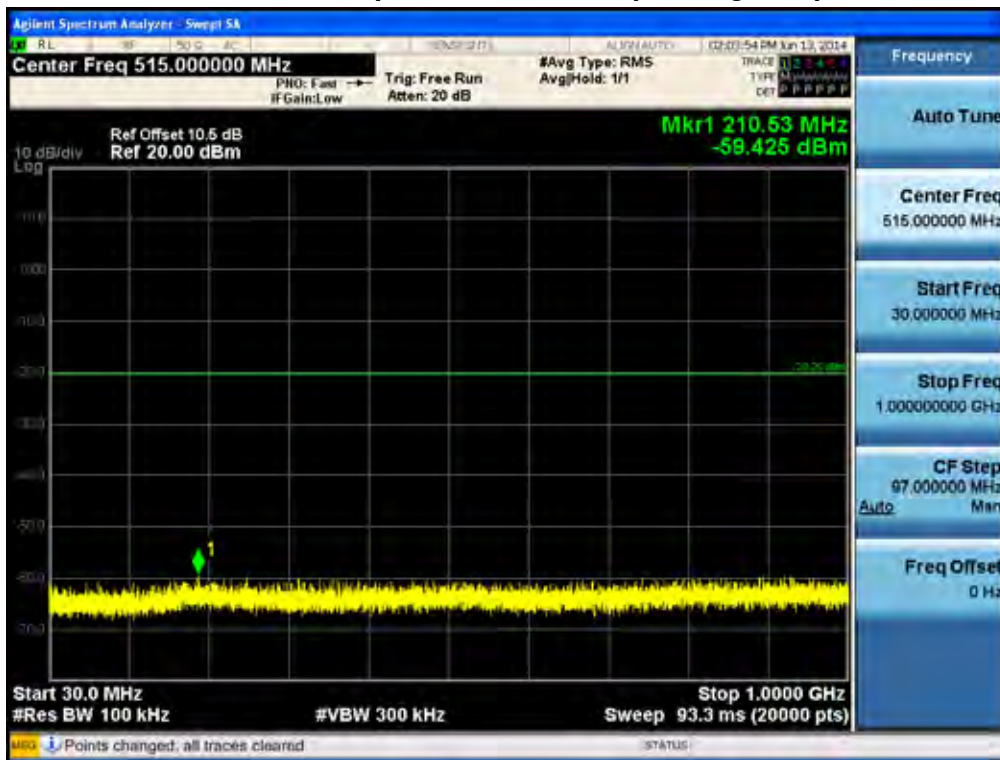
FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

Monitoring Port Ant.1

2.4 GHz Band

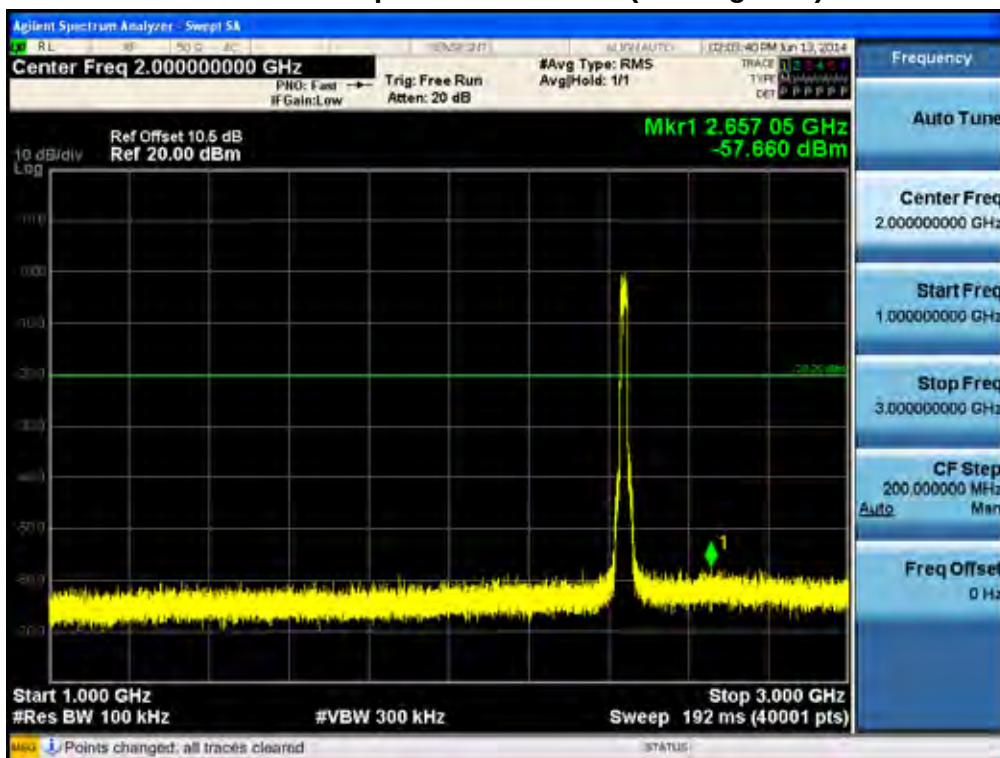
30 MHz ~ 1 GHz

Conducted Spurious Emission (802.11g-CH6)



1 GHz ~ 3 GHz

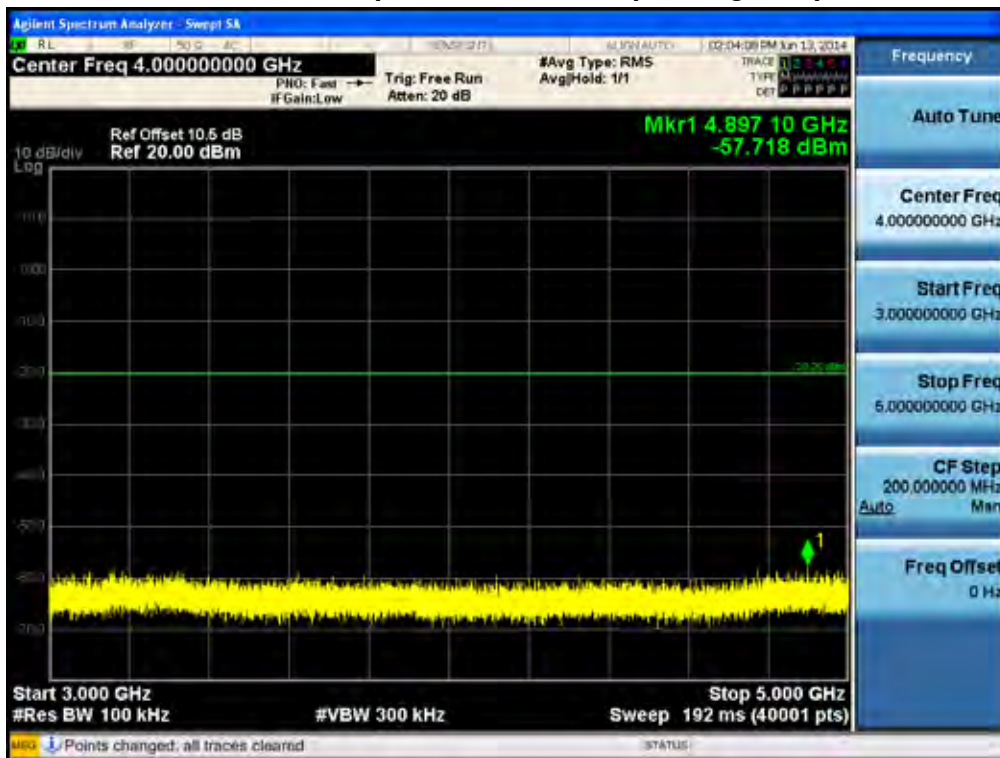
Conducted Spurious Emission (802.11g-CH6)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

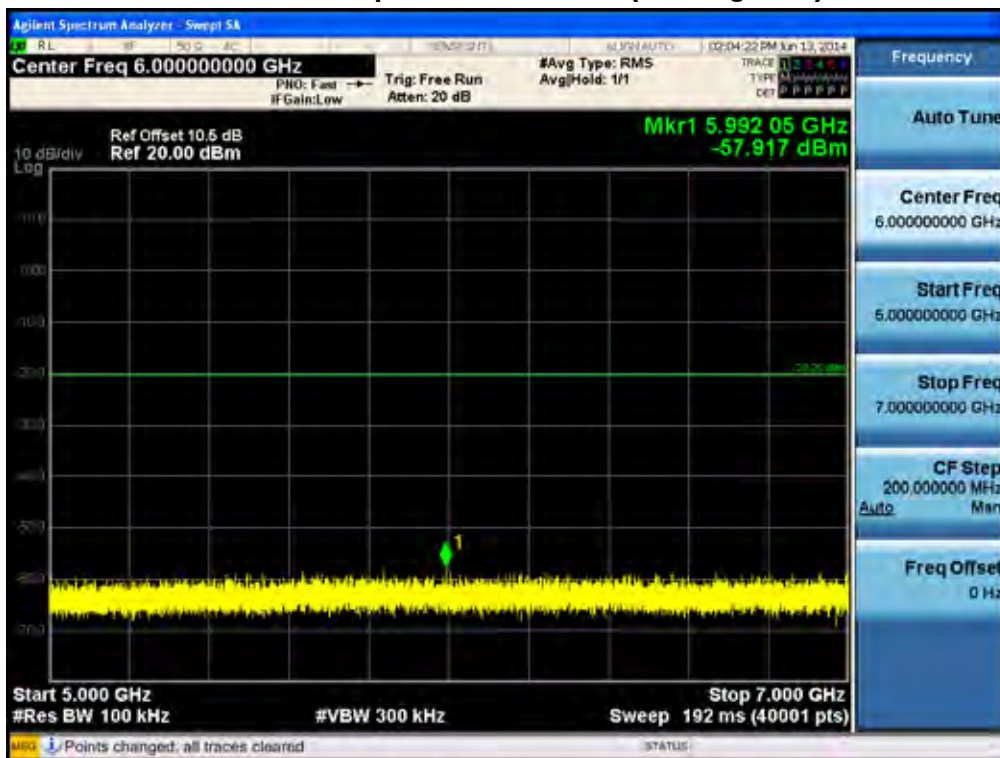
3 GHz ~ 5 GHz

Conducted Spurious Emission (802.11g-CH6)



5 GHz ~ 7 GHz

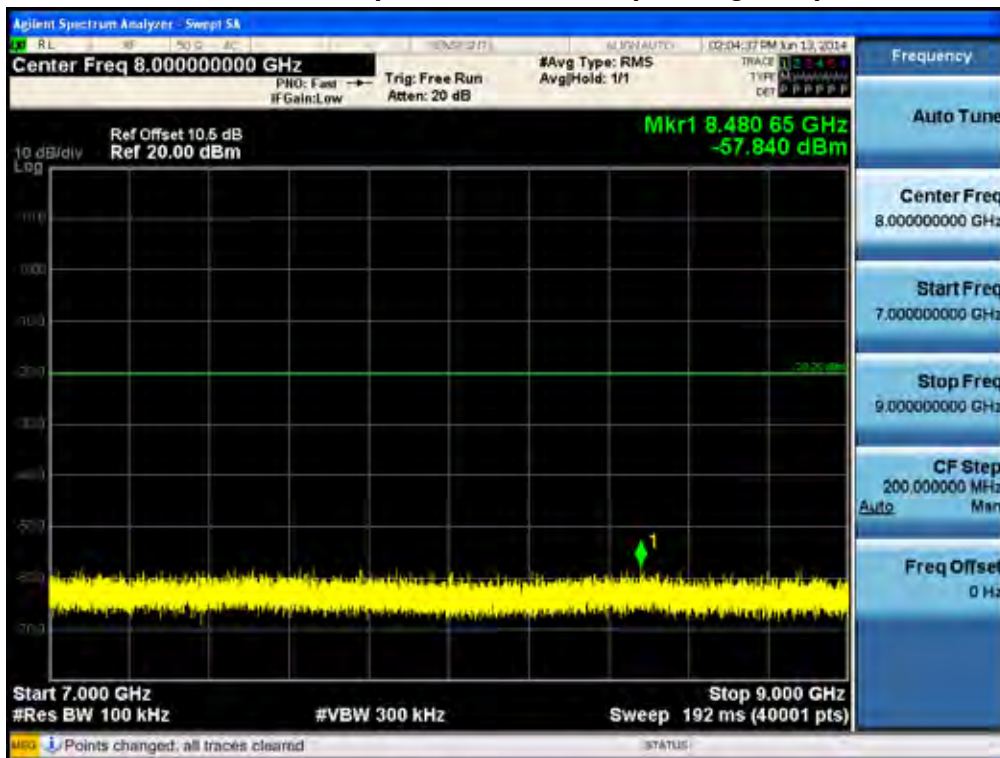
Conducted Spurious Emission (802.11g-CH6)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

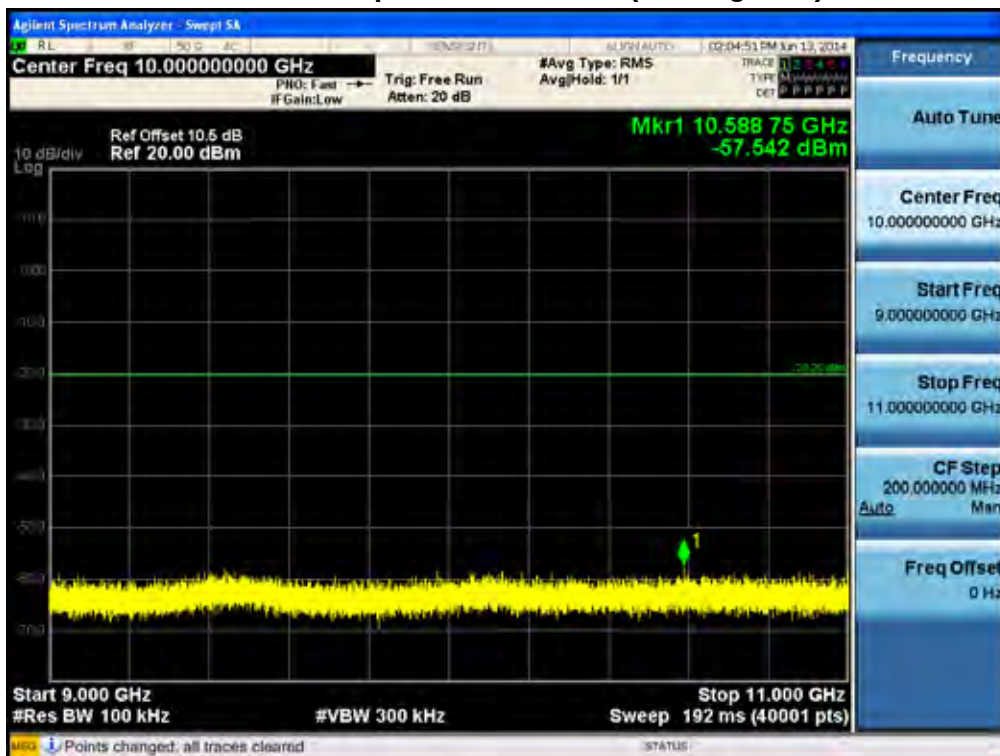
7 GHz ~ 9 GHz

Conducted Spurious Emission (802.11g-CH6)



9 GHz ~ 11 GHz

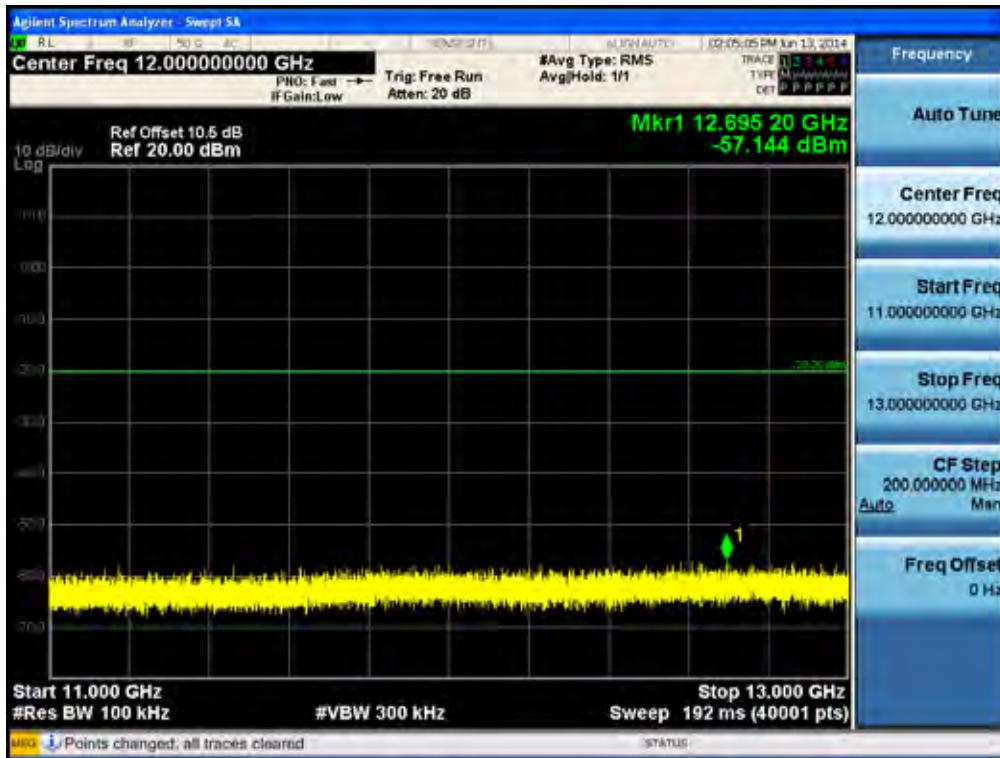
Conducted Spurious Emission (802.11g-CH6)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

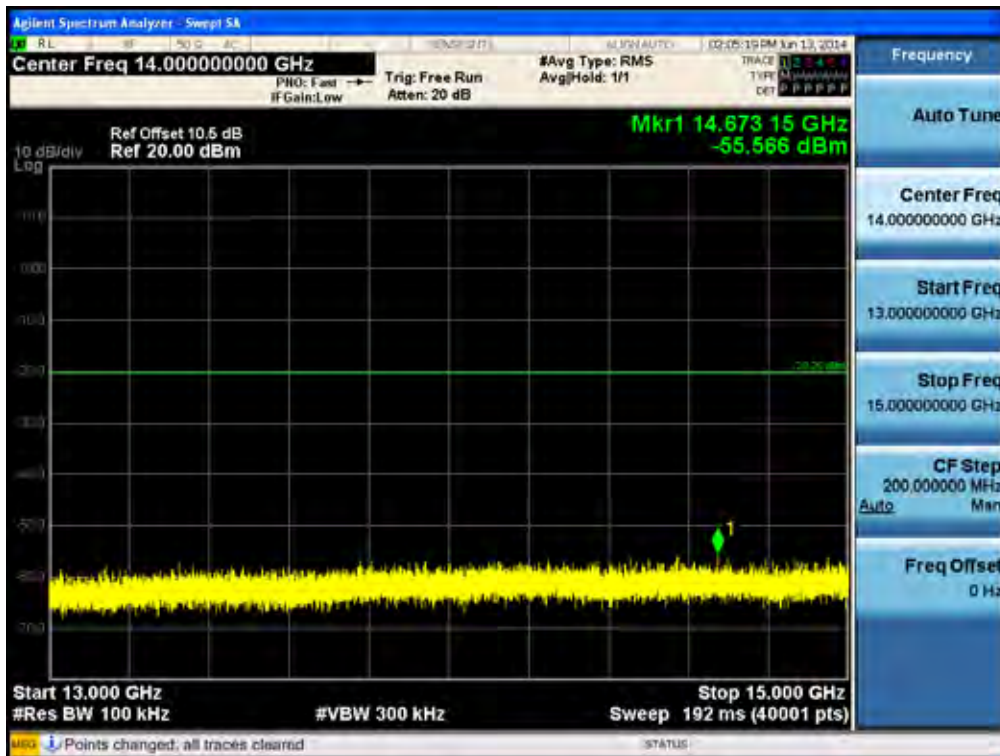
11 GHz ~ 13 GHz

Conducted Spurious Emission (802.11g-CH6)



13 GHz ~ 15 GHz

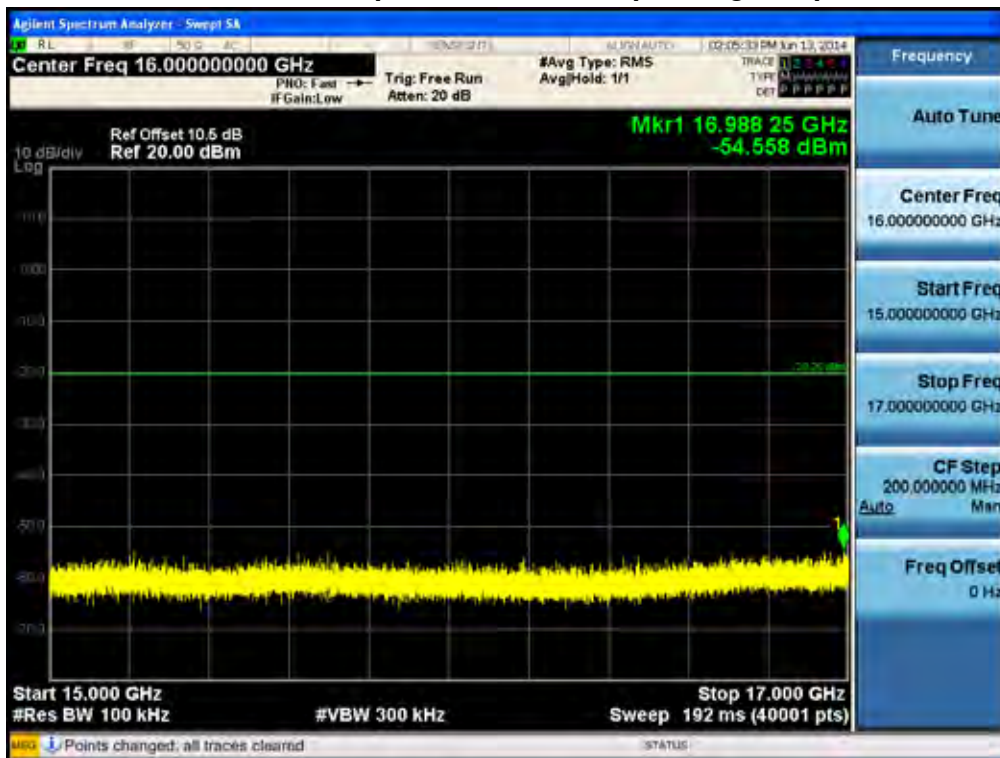
Conducted Spurious Emission (802.11g-CH6)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

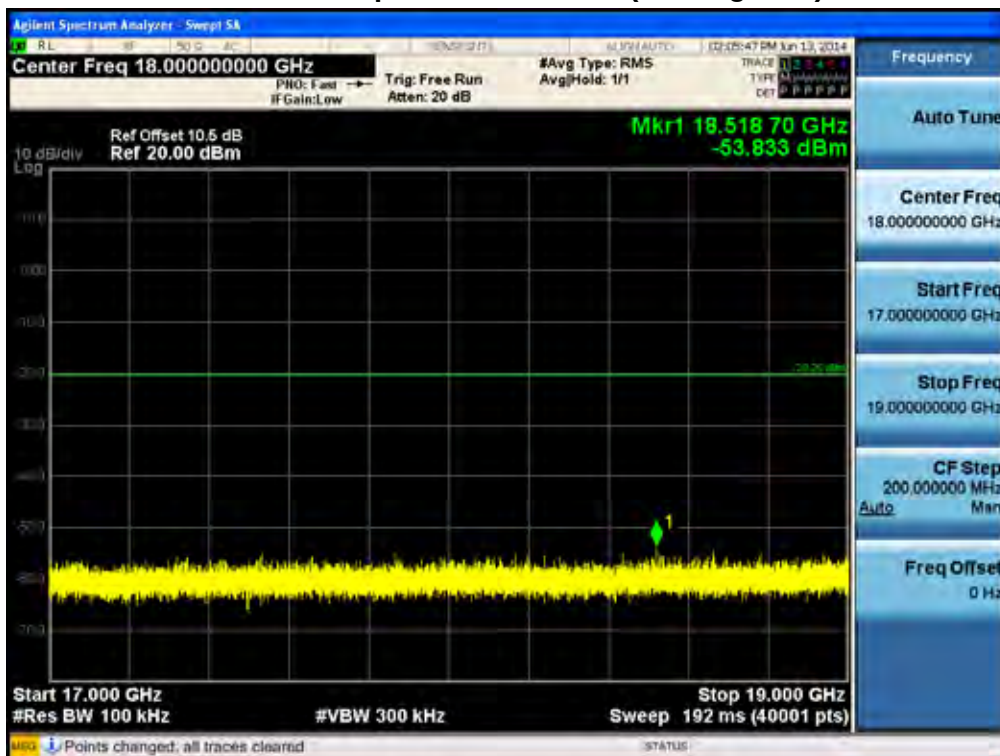
15 GHz ~ 17 GHz

Conducted Spurious Emission (802.11g-CH6)



17 GHz ~ 19 GHz

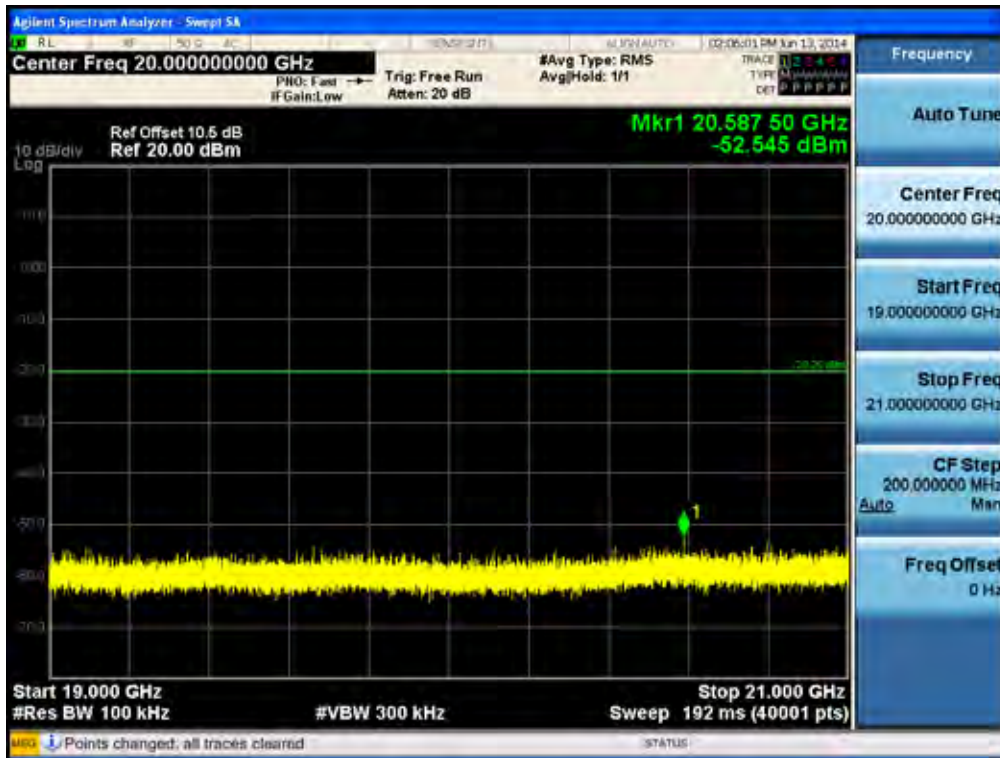
Conducted Spurious Emission (802.11g-CH6)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

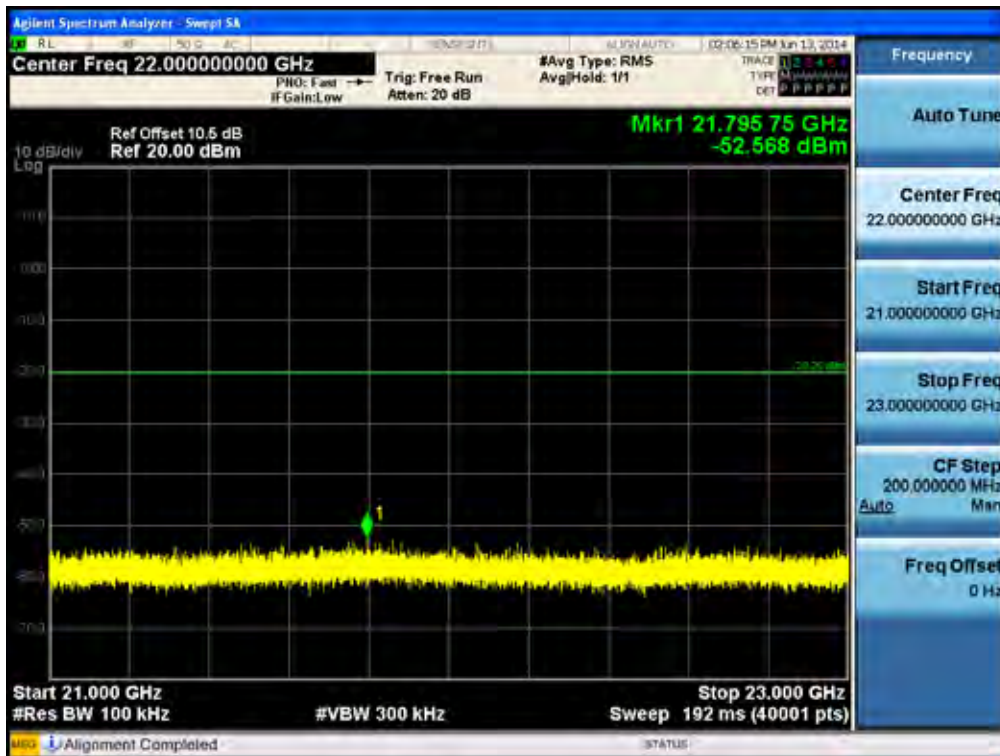
19 GHz ~ 21 GHz

Inducted Spurious Emission (802.11g-CH6)



21 GHz ~ 23 GHz

Conducted Spurious Emission (802.11g-CH6)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

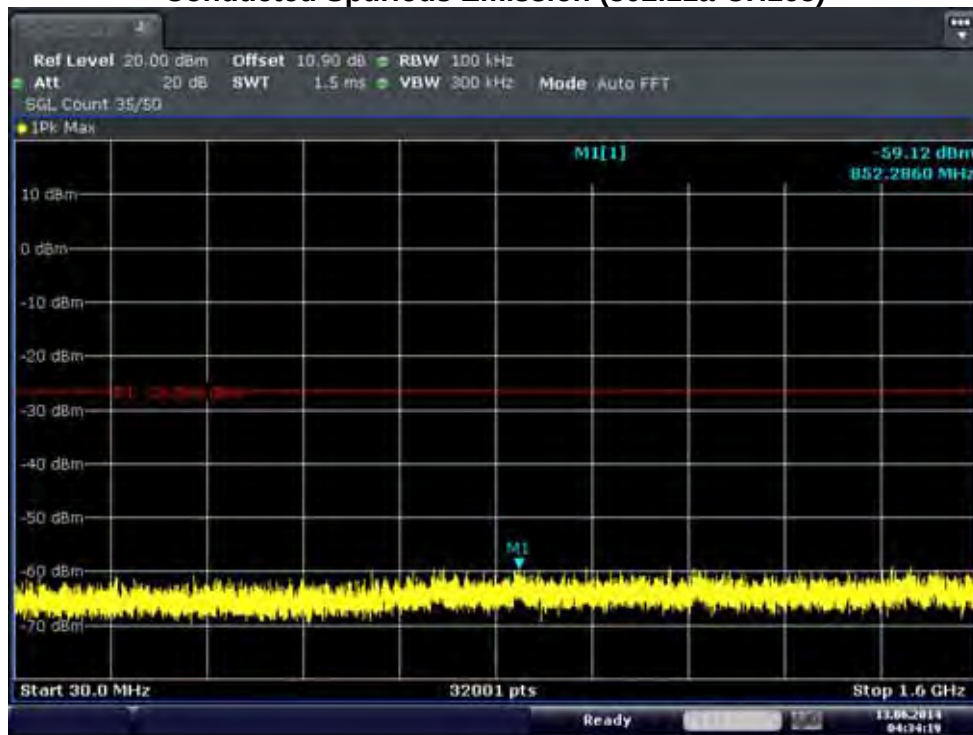
Conducted Spurious Emission (802.11g-CH6)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

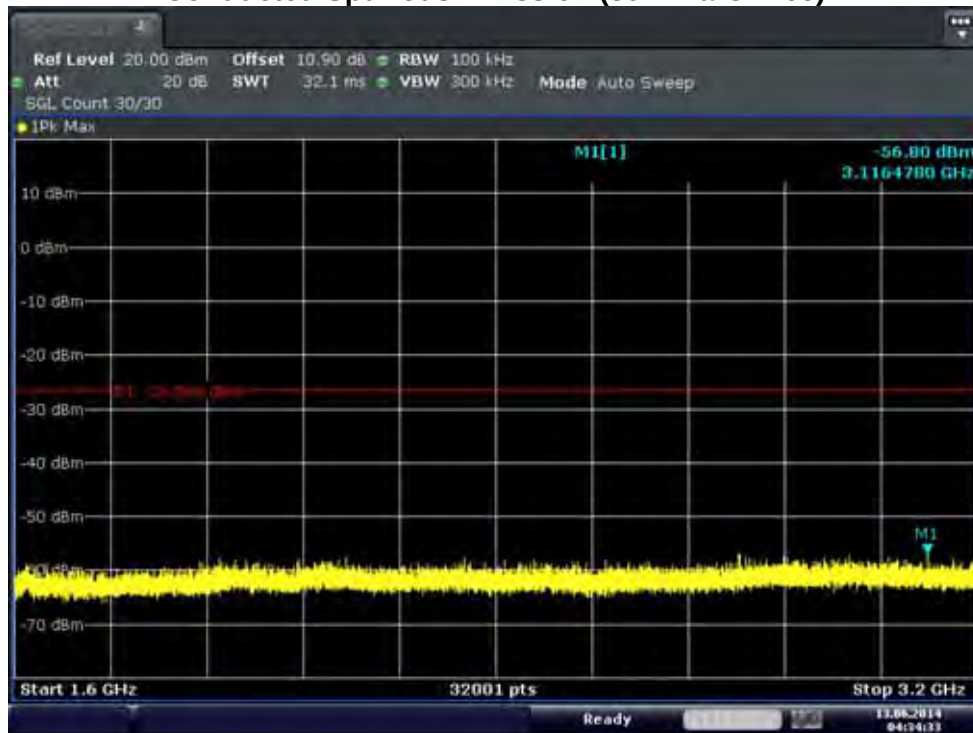
5.8 GHz Band
30 MHz ~ 1.6 GHz

Conducted Spurious Emission (802.11a-CH165)



1.6 GHz ~ 3.2 GHz

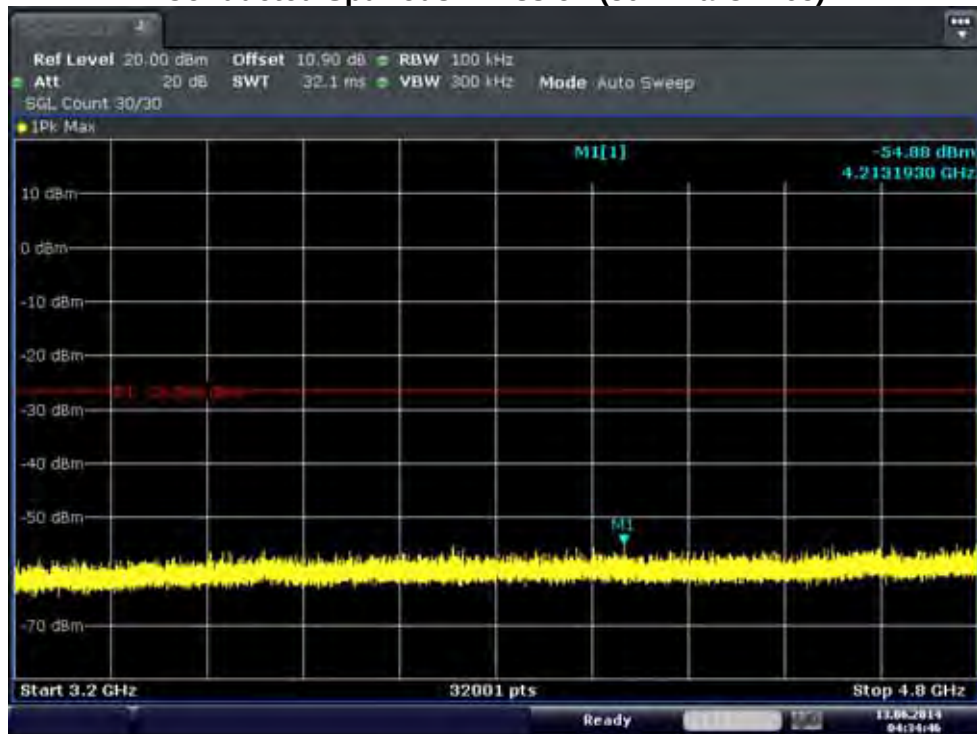
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

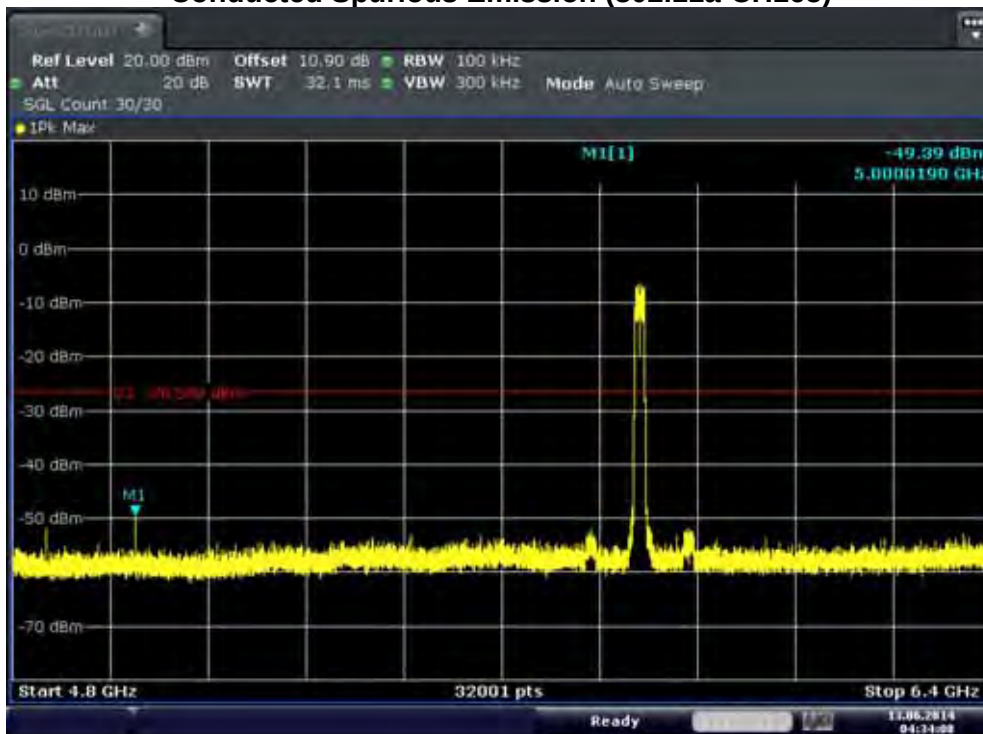
3.2 GHz ~ 4.8 GHz

Conducted Spurious Emission (802.11a-CH165)



4.8 GHz ~ 6.4 GHz

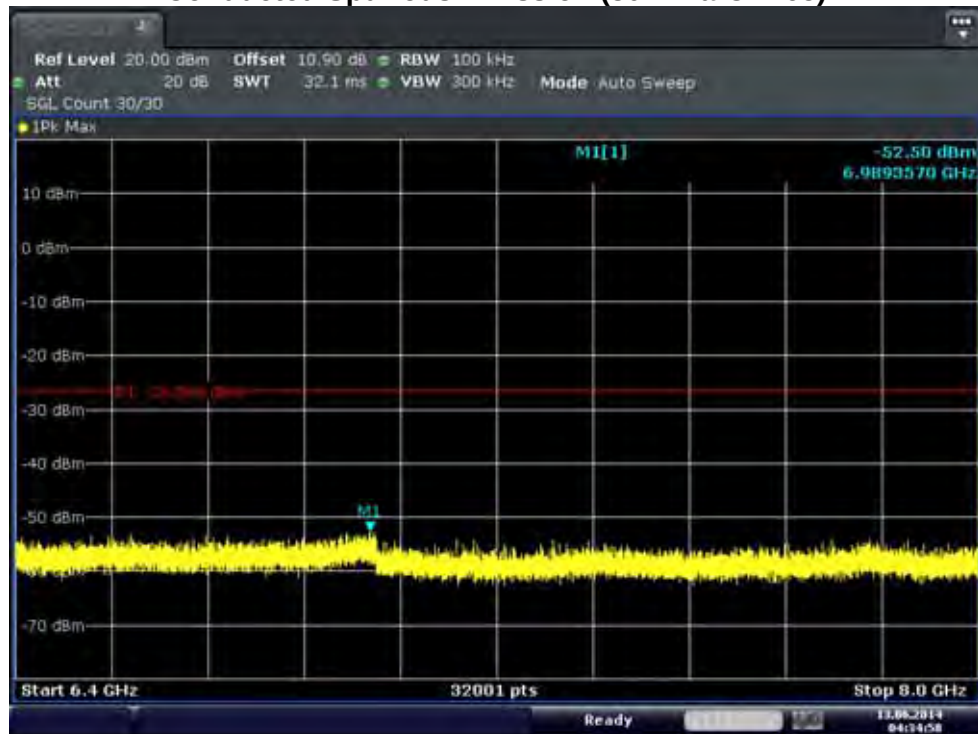
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

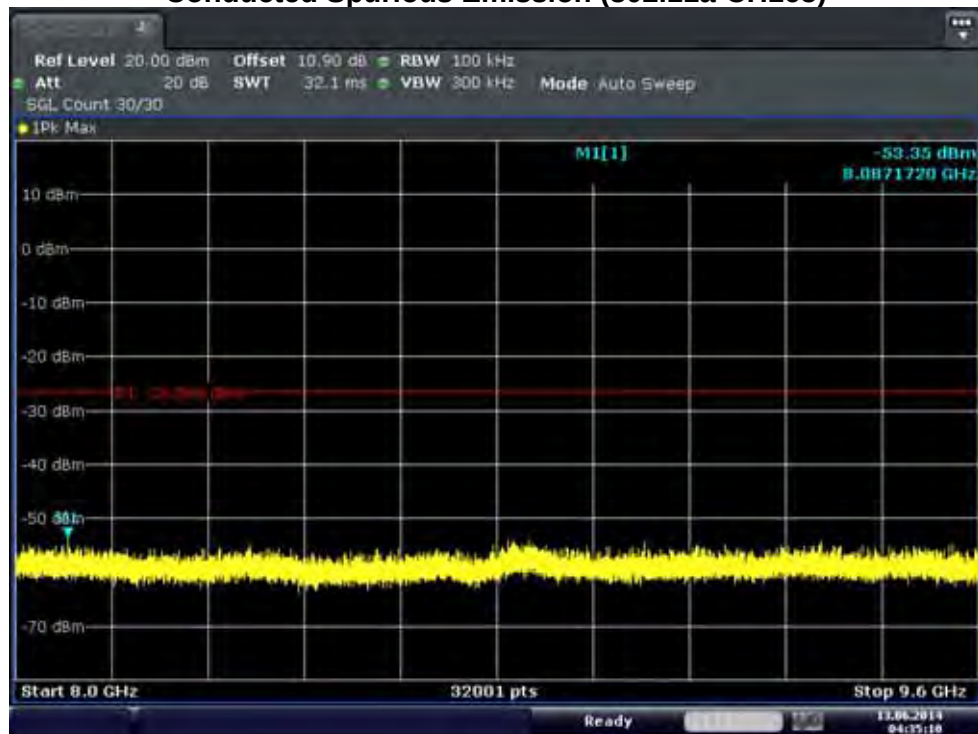
6.4 GHz ~ 8 GHz

Conducted Spurious Emission (802.11a-CH165)



8 GHz ~ 9.6 GHz

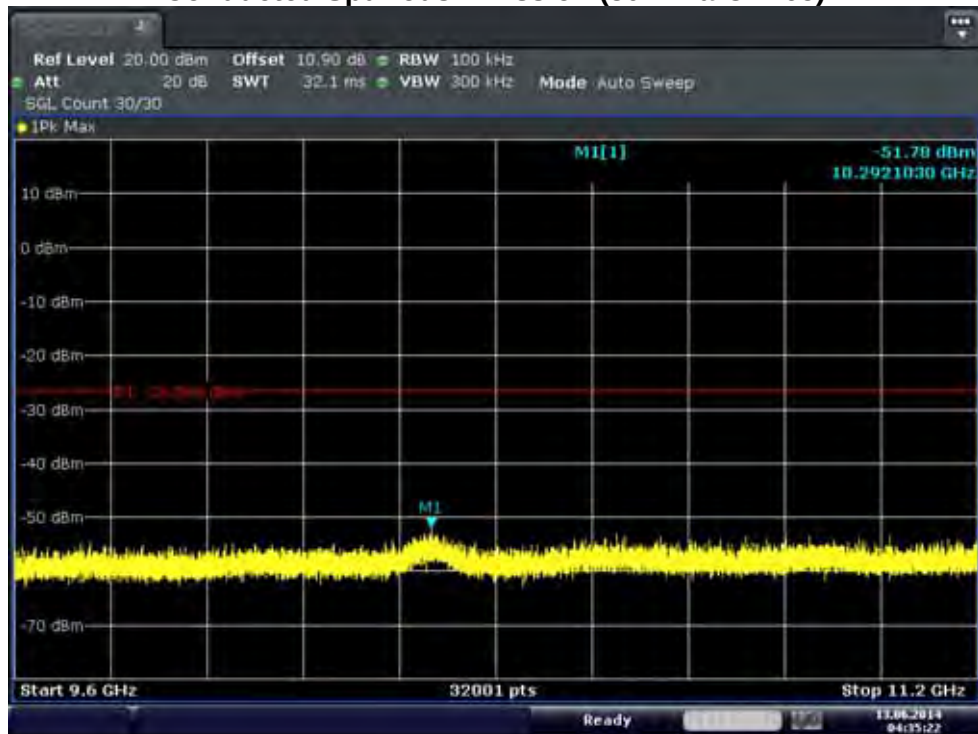
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

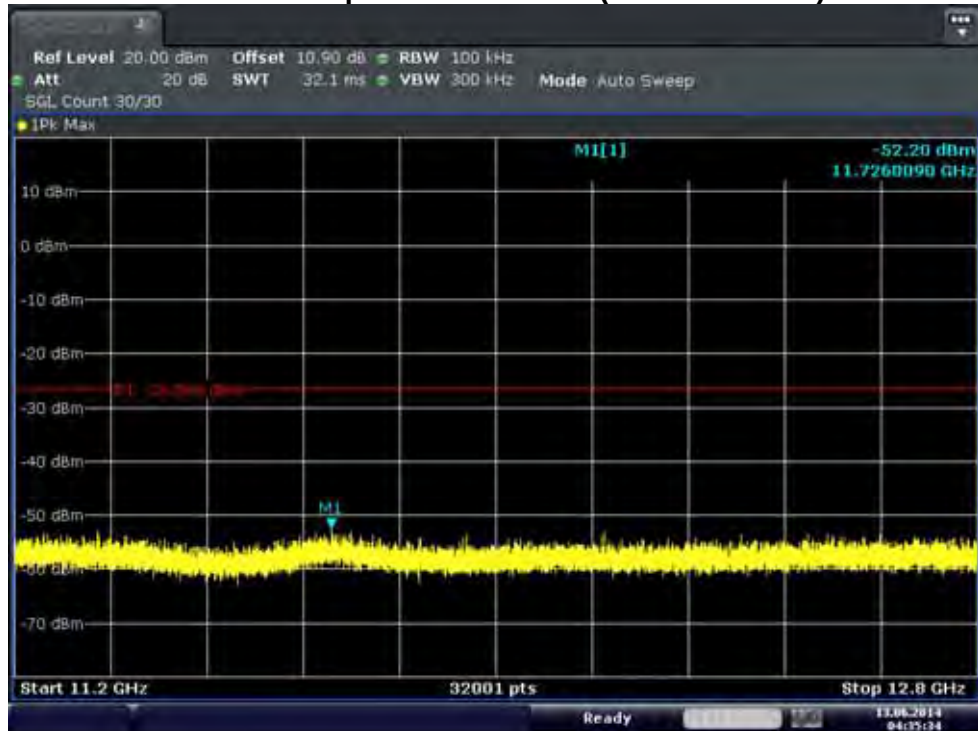
9.6 GHz ~ 11.2 GHz

Conducted Spurious Emission (802.11a-CH165)



11.2 GHz ~ 12.8 GHz

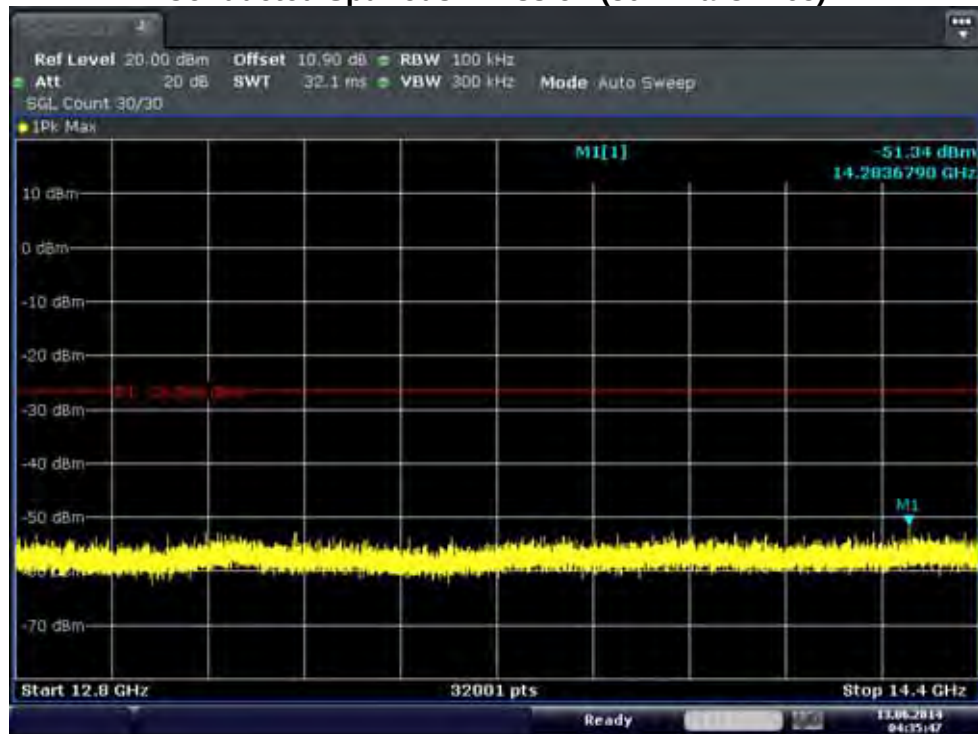
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

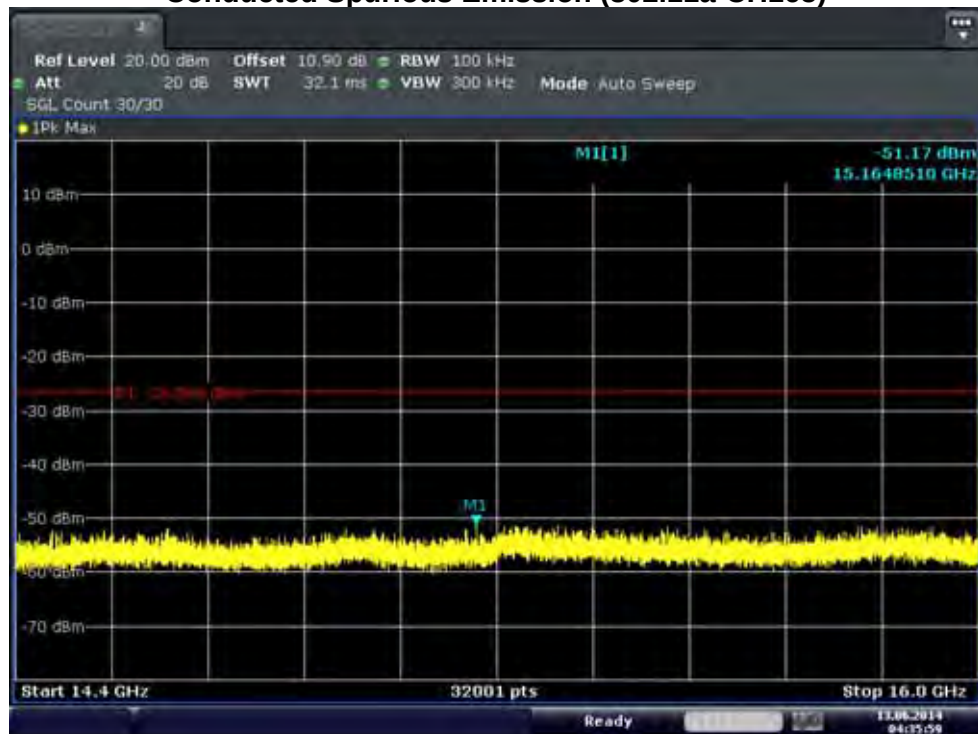
12.8 GHz ~ 12.8 GHz

Conducted Spurious Emission (802.11a-CH165)



14.4 GHz ~ 16 GHz

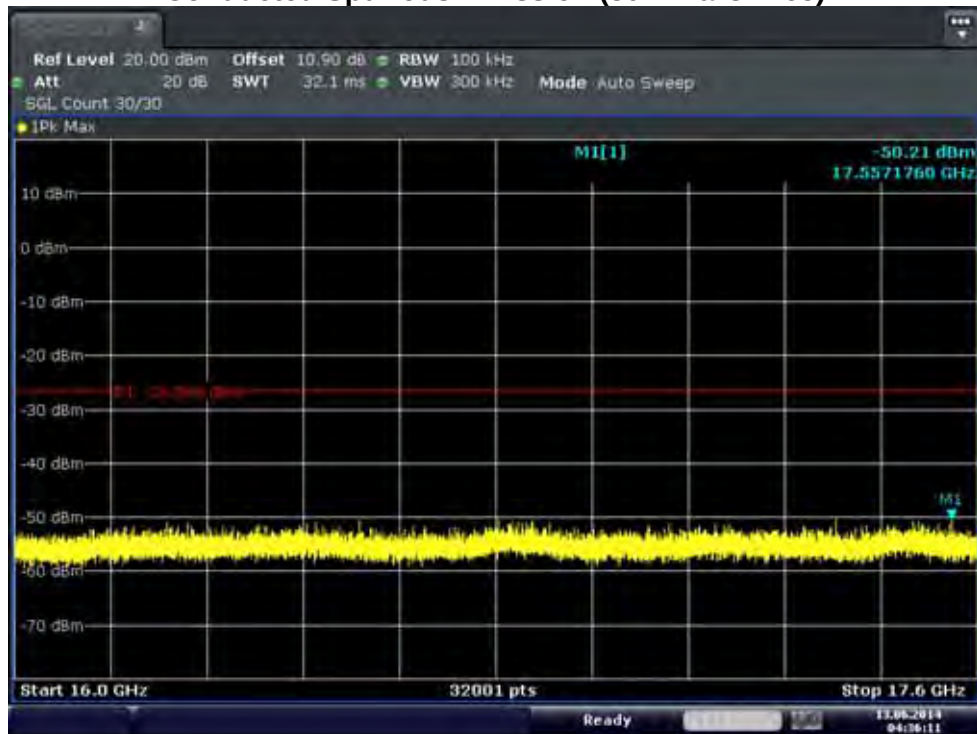
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

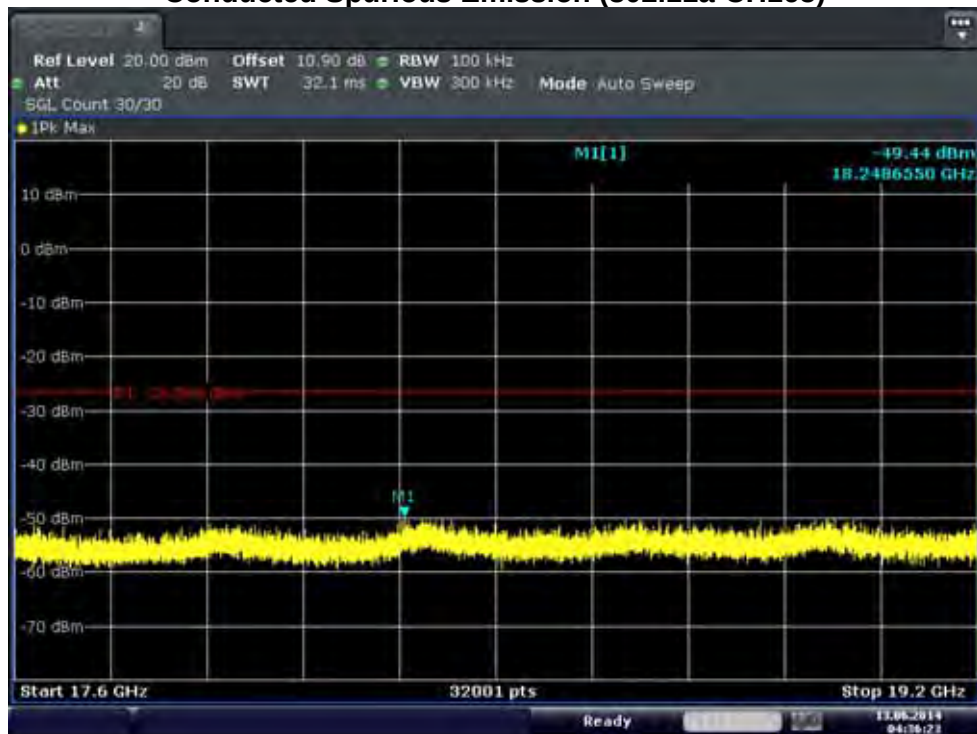
16 GHz ~ 17.6 GHz

Conducted Spurious Emission (802.11a-CH165)



17.6 GHz ~ 19.2 GHz

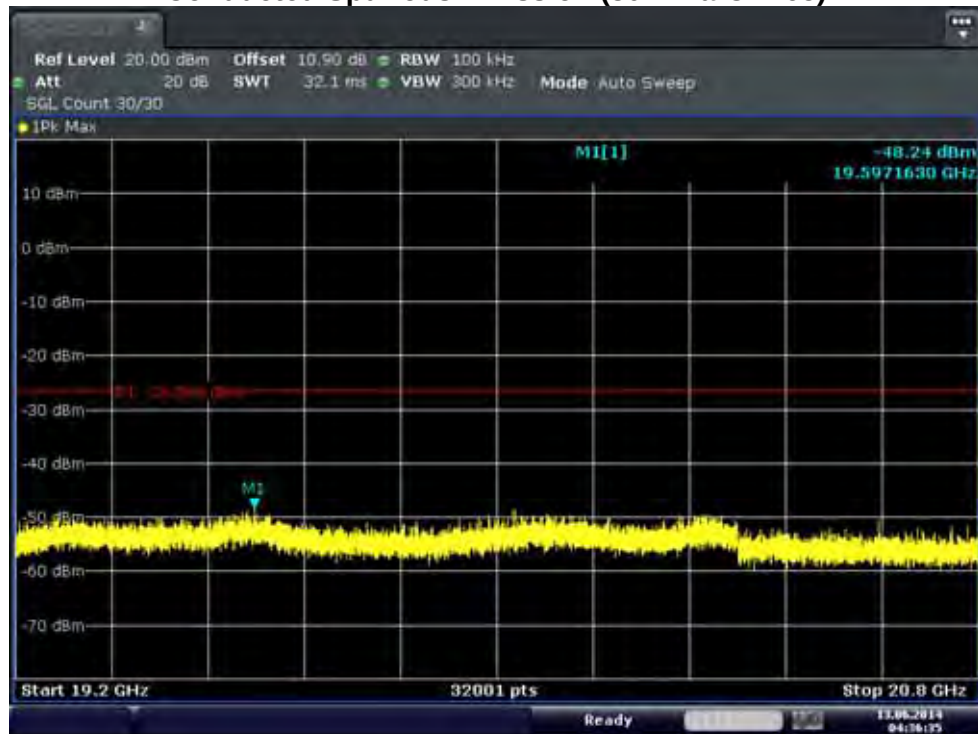
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
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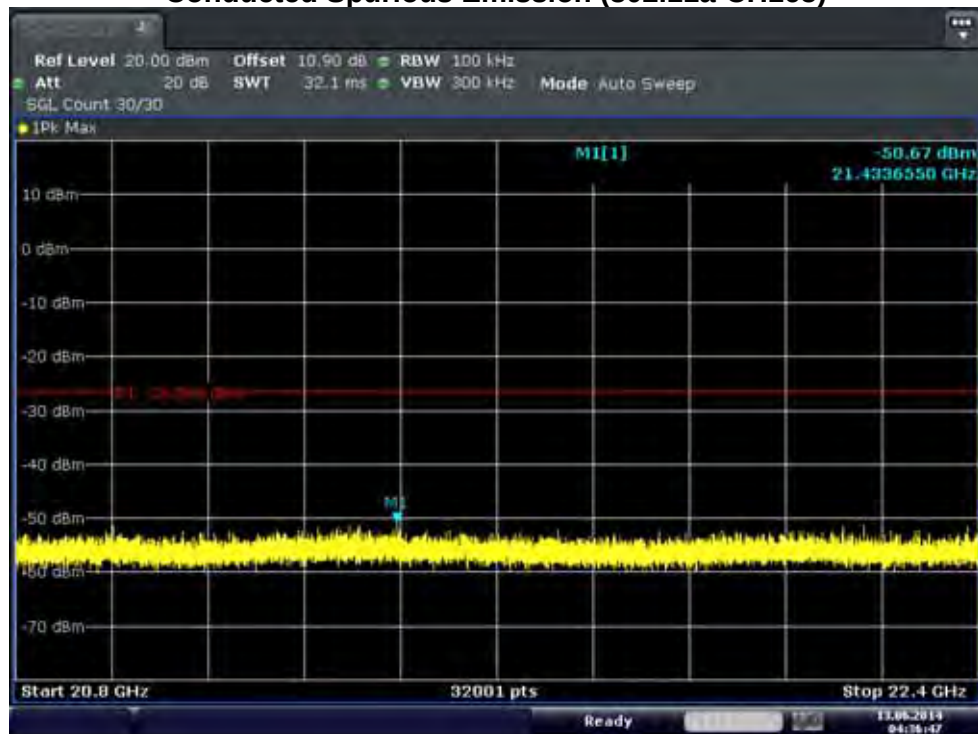
19.2 GHz ~ 20.8 GHz

Conducted Spurious Emission (802.11a-CH165)



20.8 GHz ~ 22.4 GHz

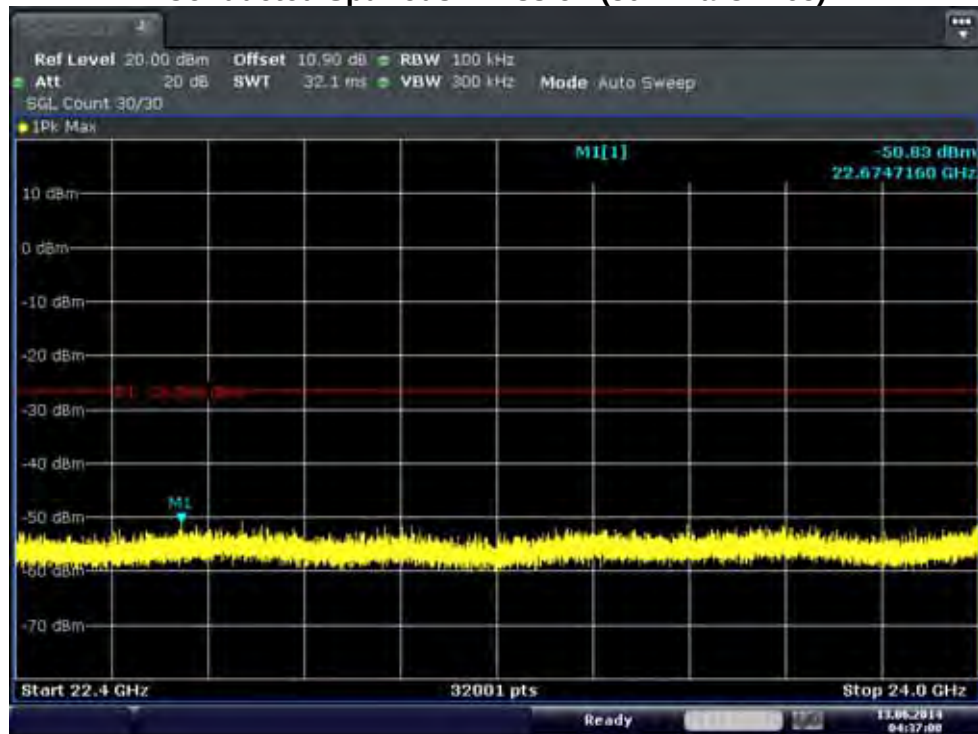
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

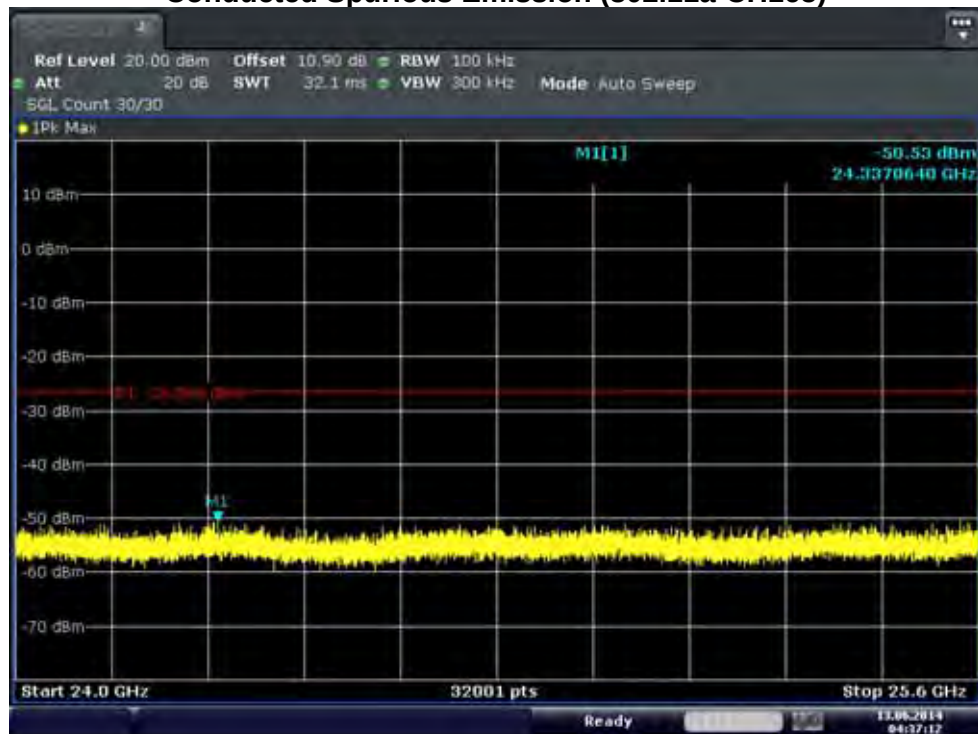
22.4 GHz ~ 24 GHz

Conducted Spurious Emission (802.11a-CH165)



24 GHz ~ 25.6 GHz

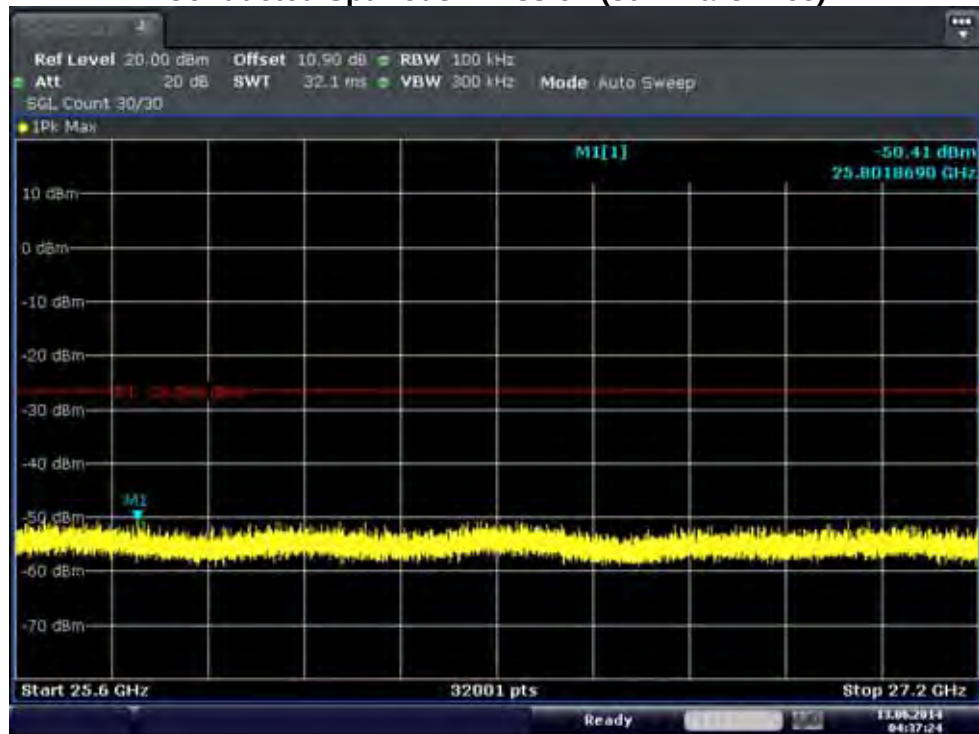
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

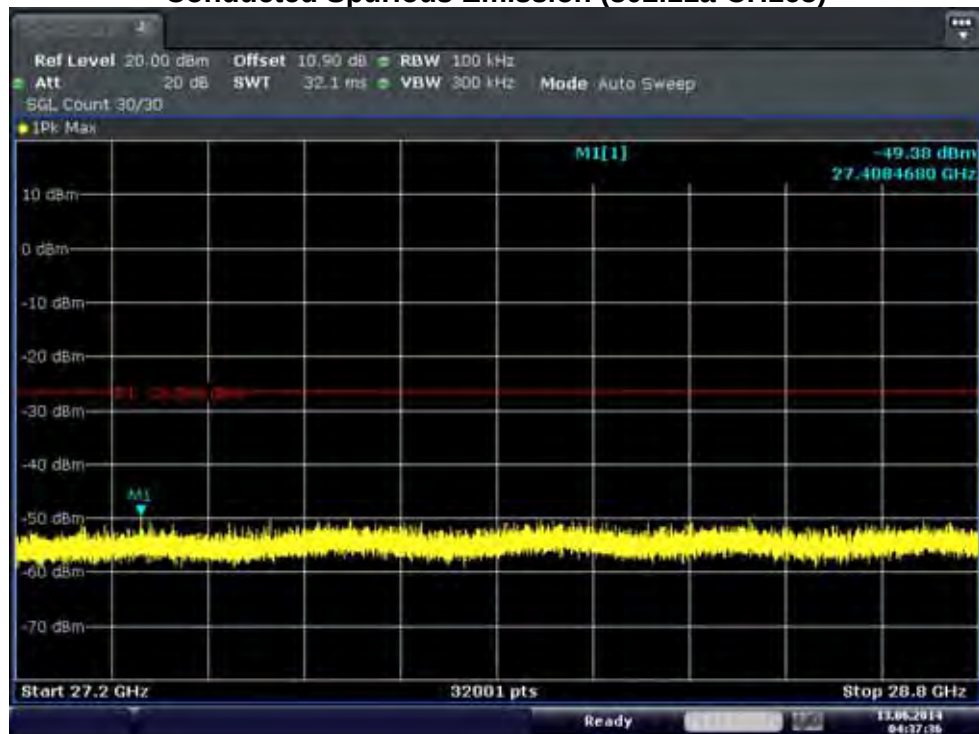
25.6 GHz ~ 27.2 GHz

Conducted Spurious Emission (802.11a-CH165)



27.2 GHz ~ 28.8 GHz

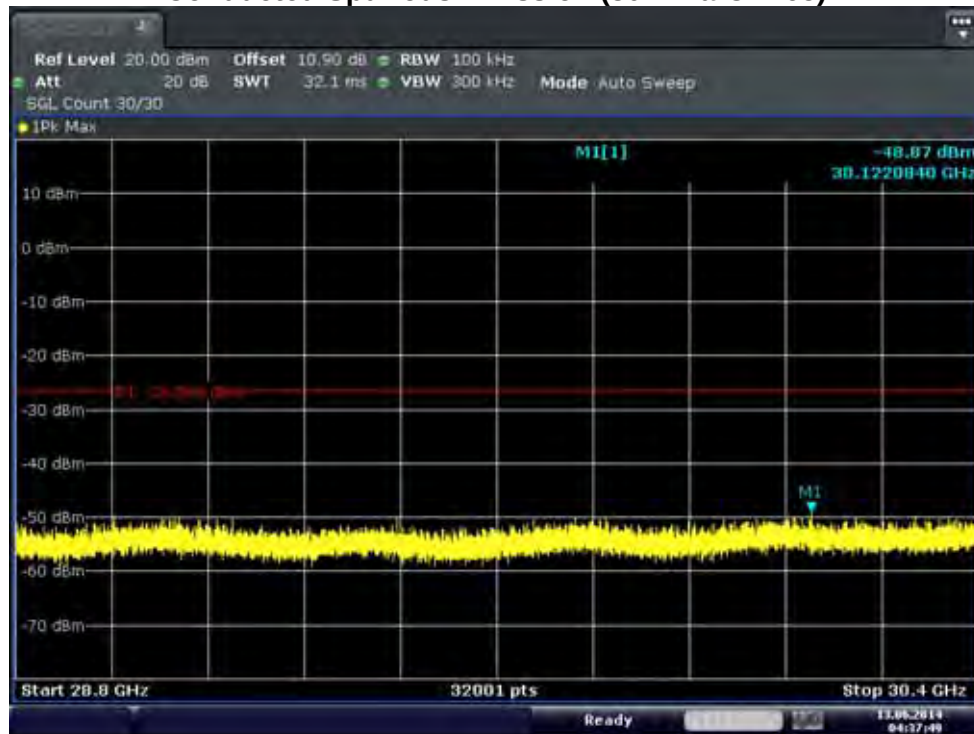
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

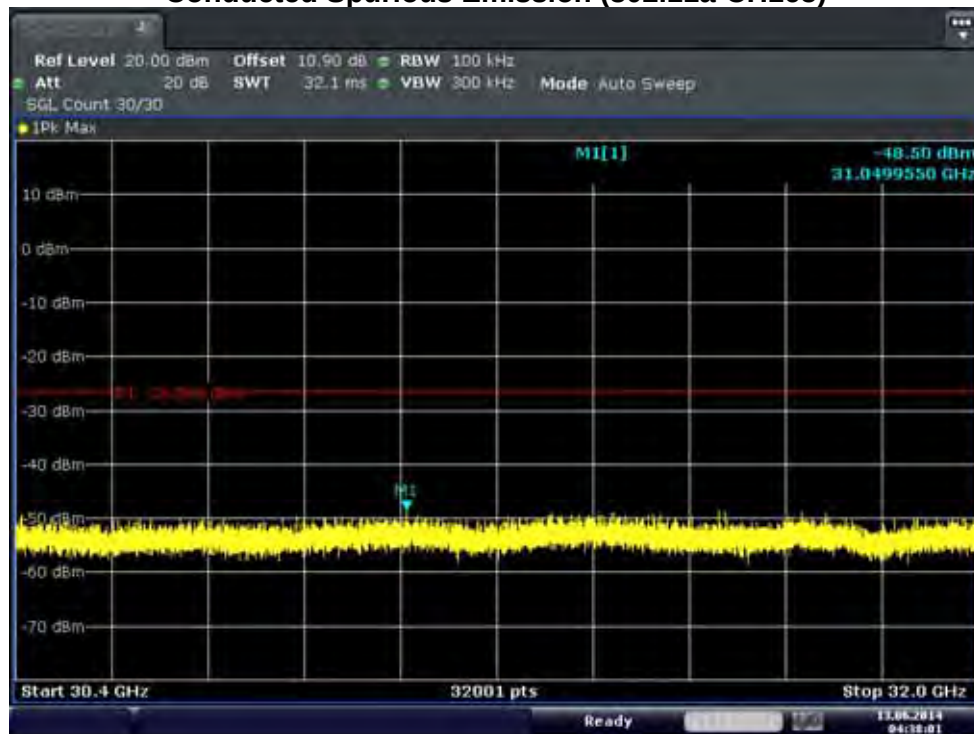
28.8 GHz ~ 30.4 GHz

Conducted Spurious Emission (802.11a-CH165)



30.4 GHz ~ 32 GHz

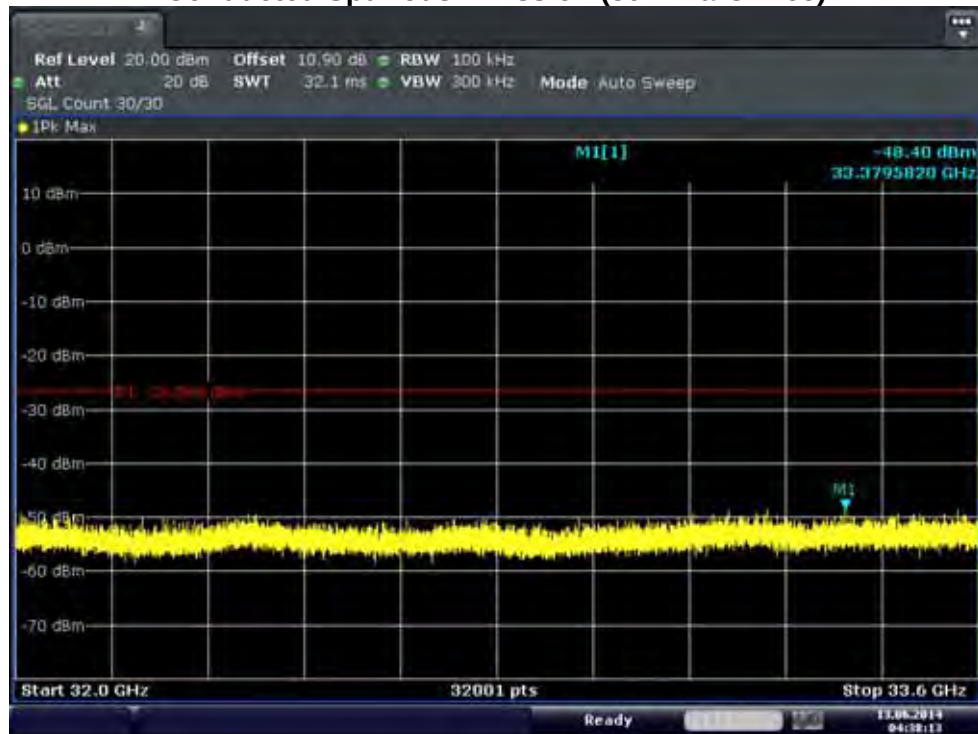
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

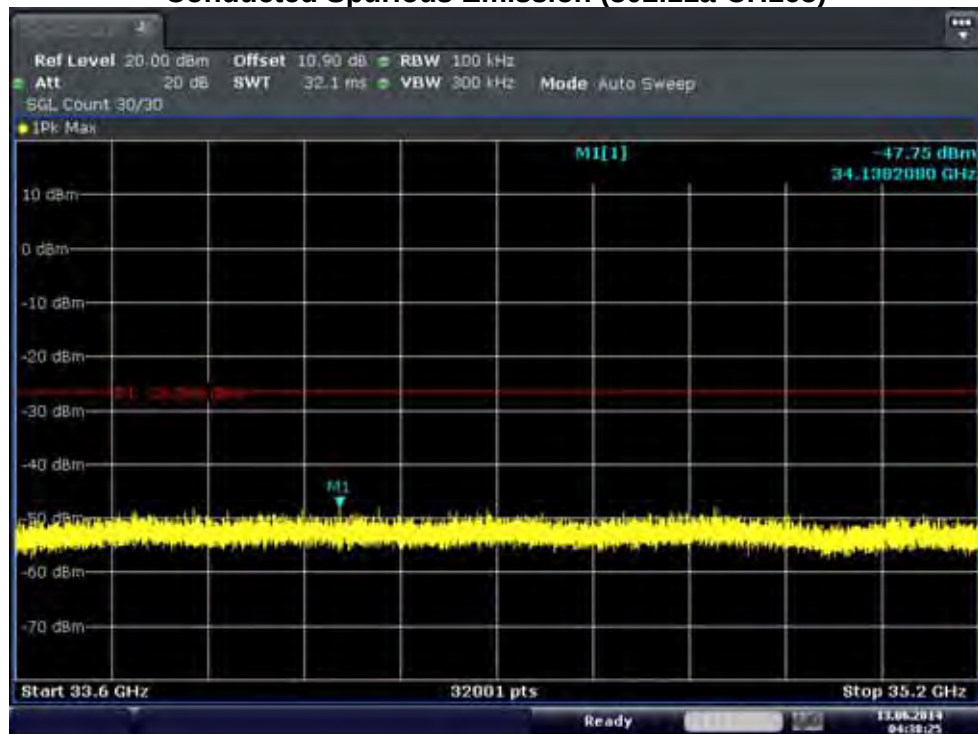
32 GHz ~ 33.6 GHz

Conducted Spurious Emission (802.11a-CH165)



33.6 GHz ~ 35.2 GHz

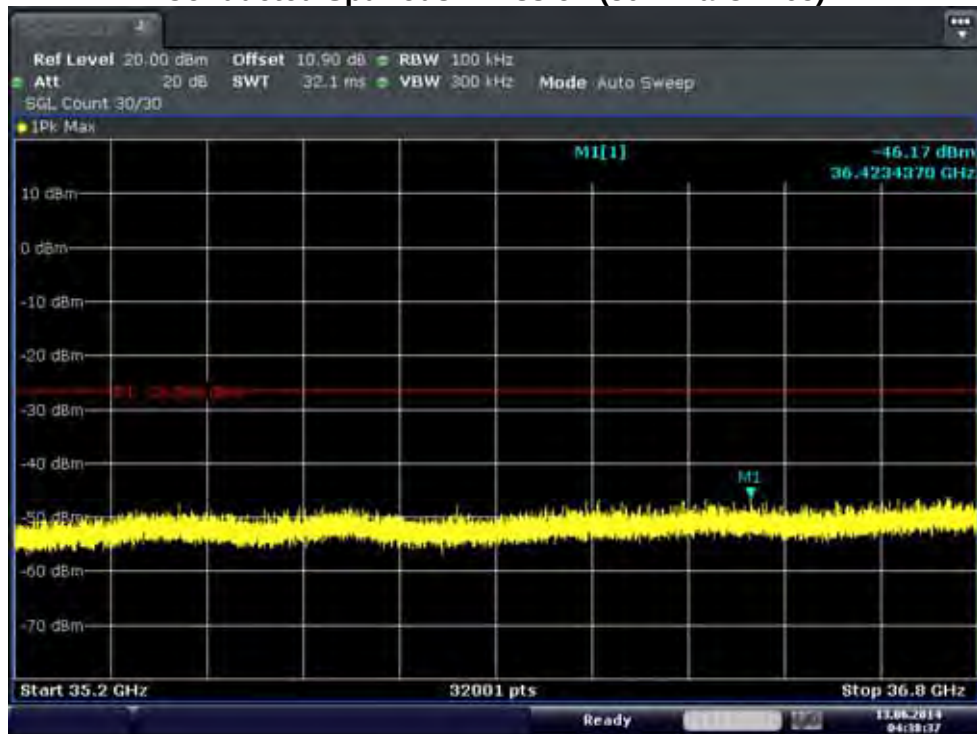
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

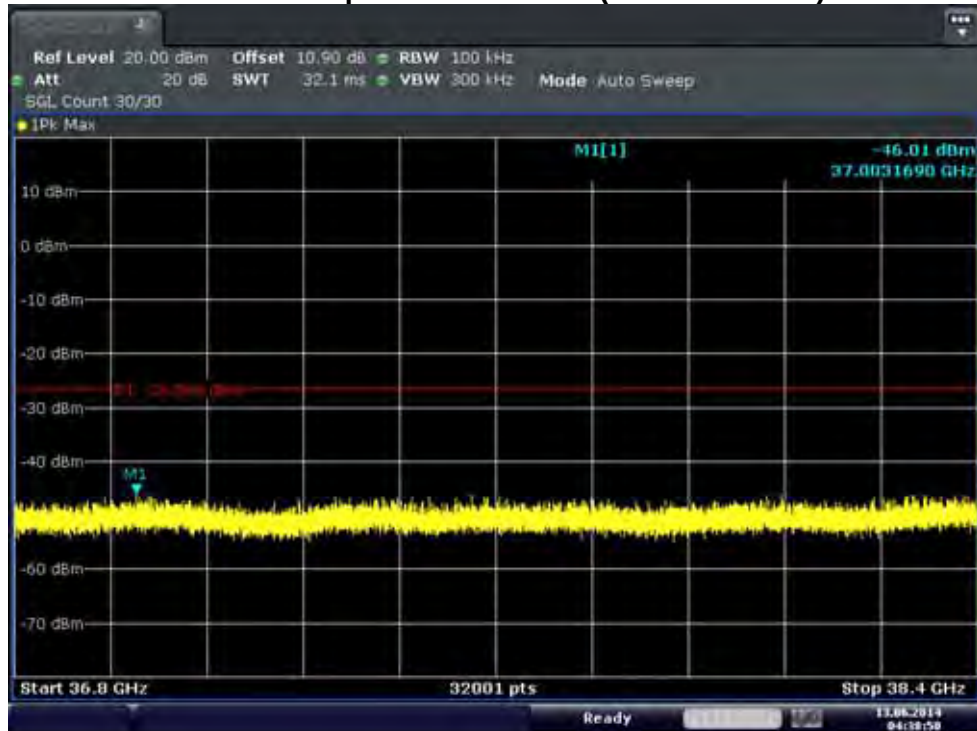
35.2 GHz ~ 36.8 GHz

Conducted Spurious Emission (802.11a-CH165)



36.8 GHz ~ 38.4 GHz

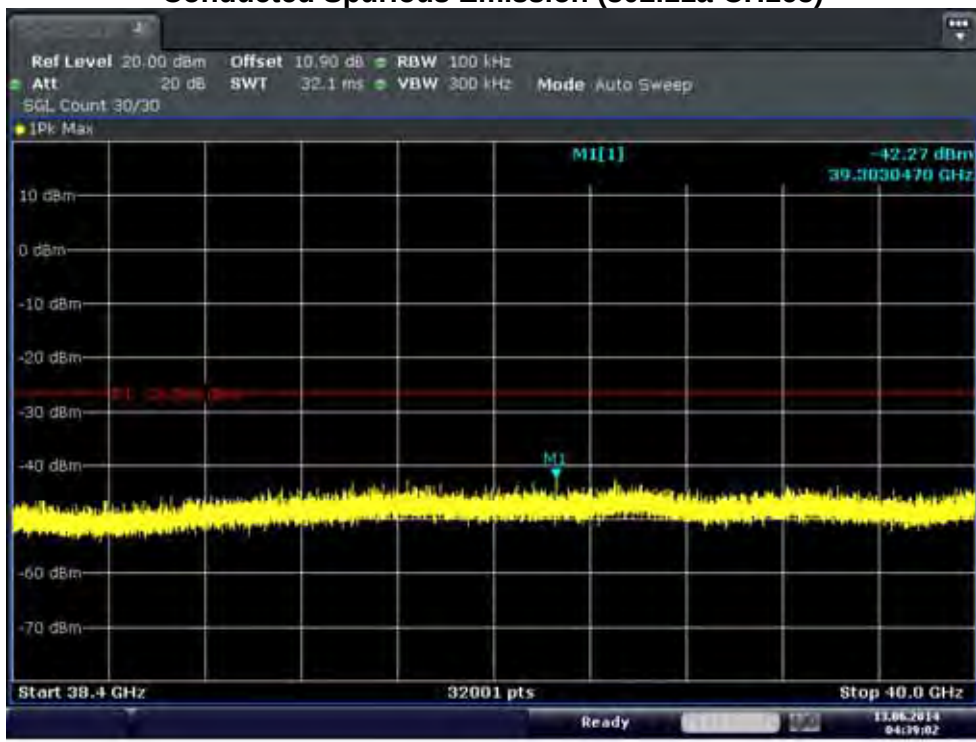
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

38.4 GHz ~ 40 GHz

Conducted Spurious Emission (802.11a-CH165)

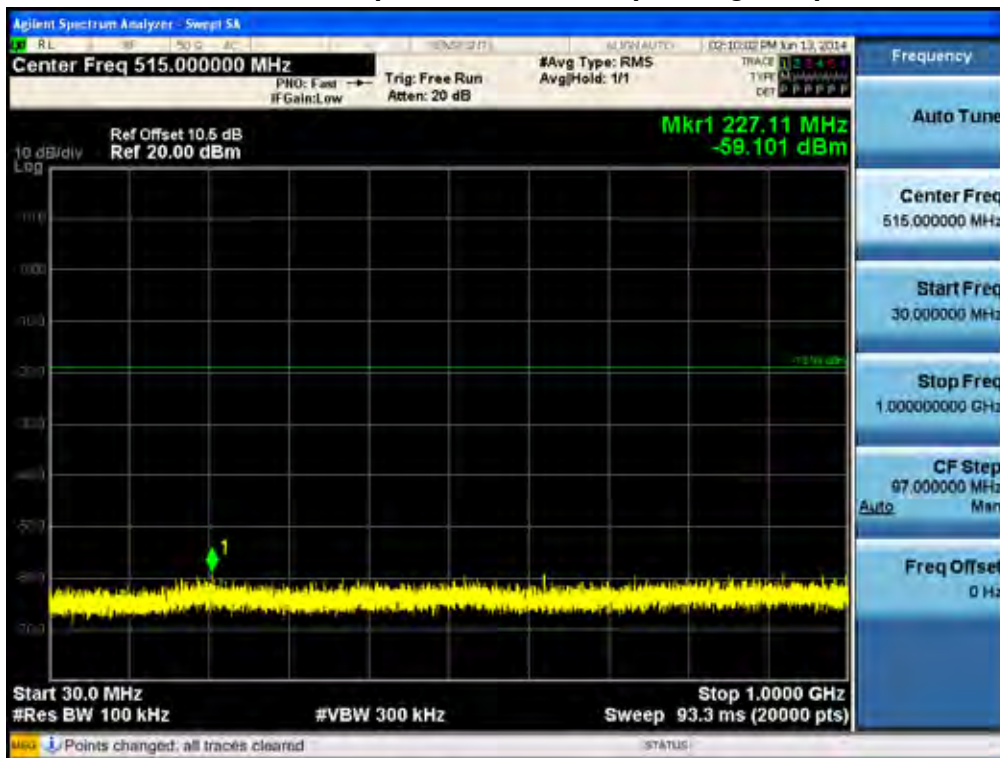


Monitoring Port Ant.2

2.4 GHz Band

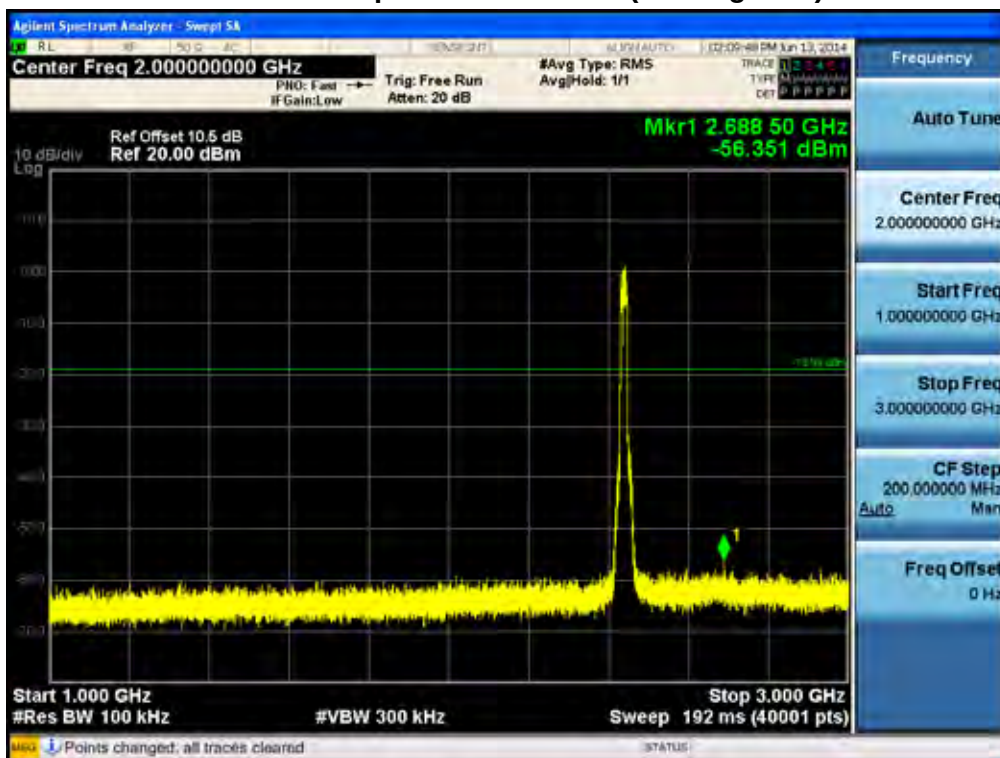
30 MHz ~ 1 GHz

Conducted Spurious Emission (802.11g-CH6)



1 GHz ~ 3 GHz

Conducted Spurious Emission (802.11g-CH6)

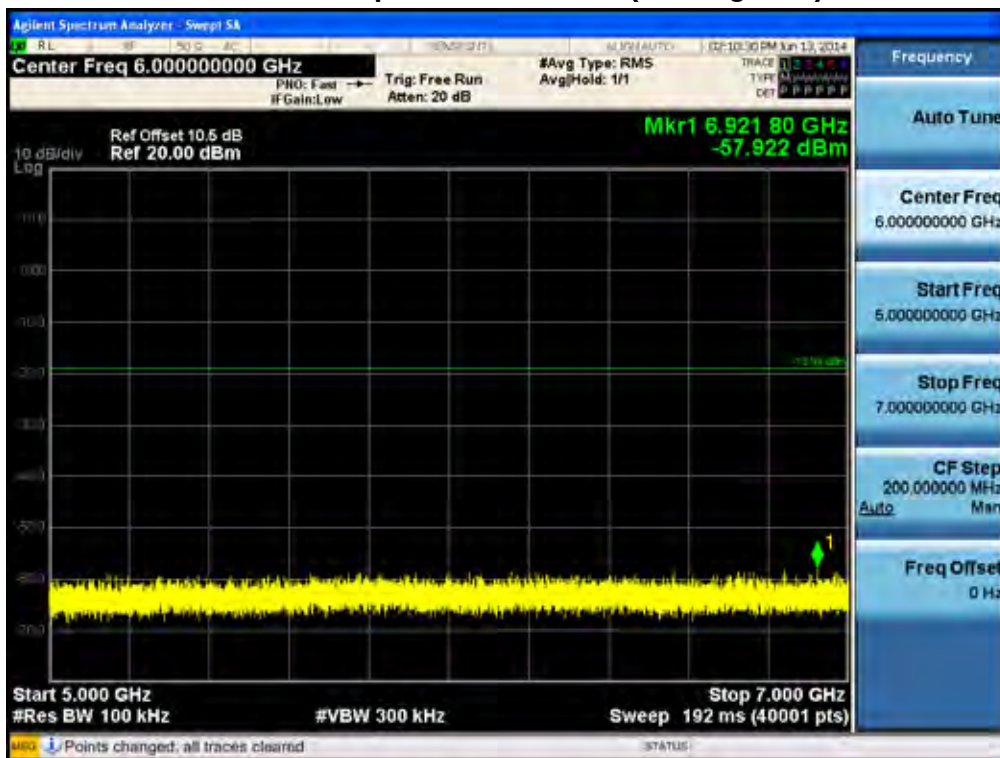


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

Conducted Spurious Emission (802.11g-CH6)



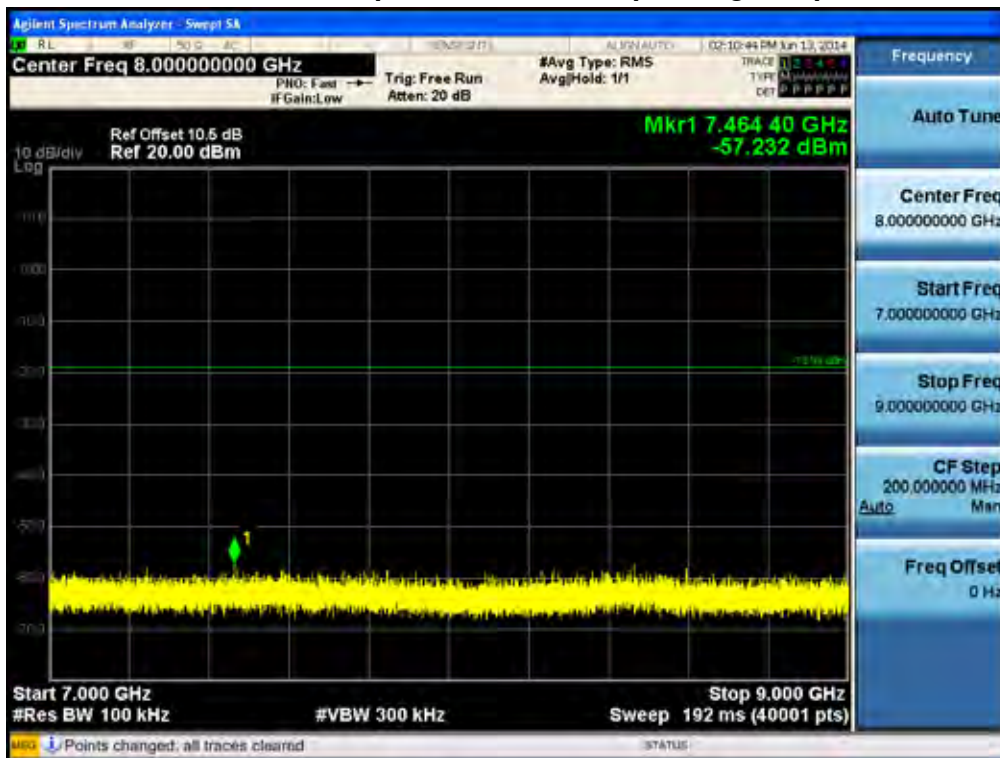
Conducted Spurious Emission (802.11g-CH6)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

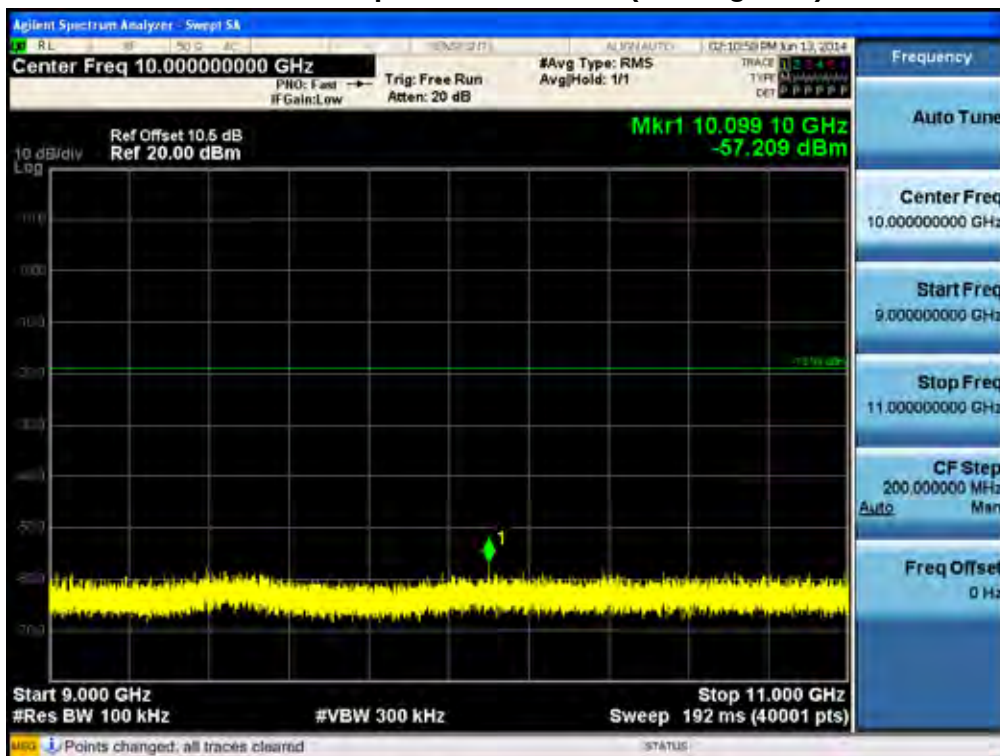
7 GHz ~ 9 GHz

Conducted Spurious Emission (802.11g-CH6)



9 GHz ~ 11 GHz

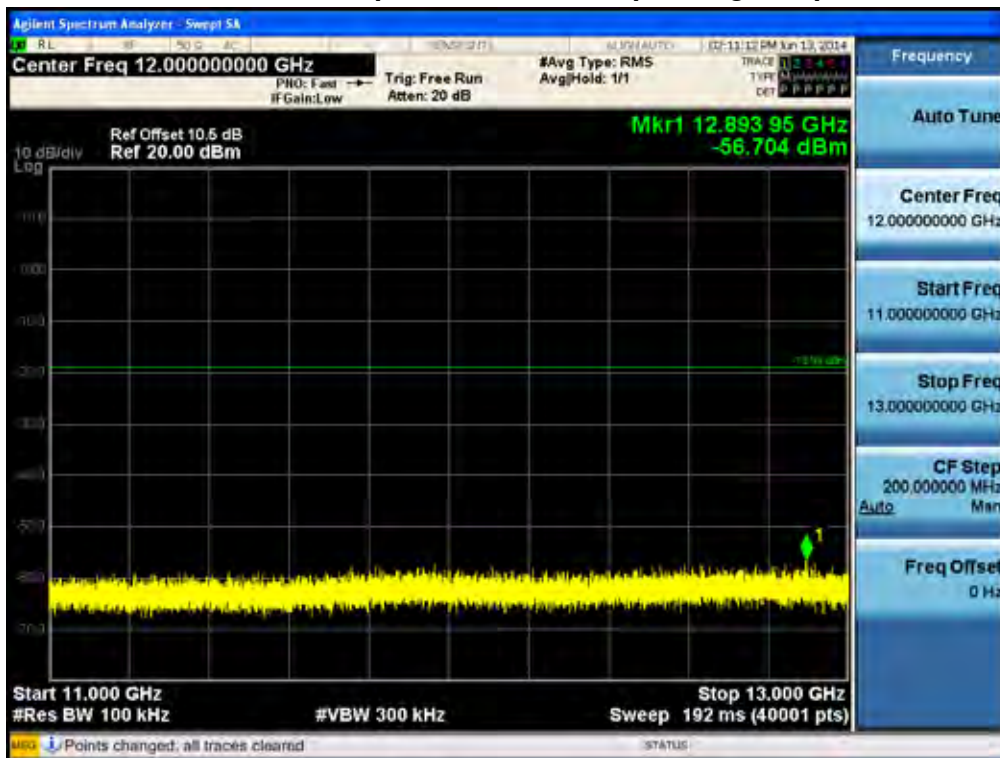
Conducted Spurious Emission (802.11g-CH6)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

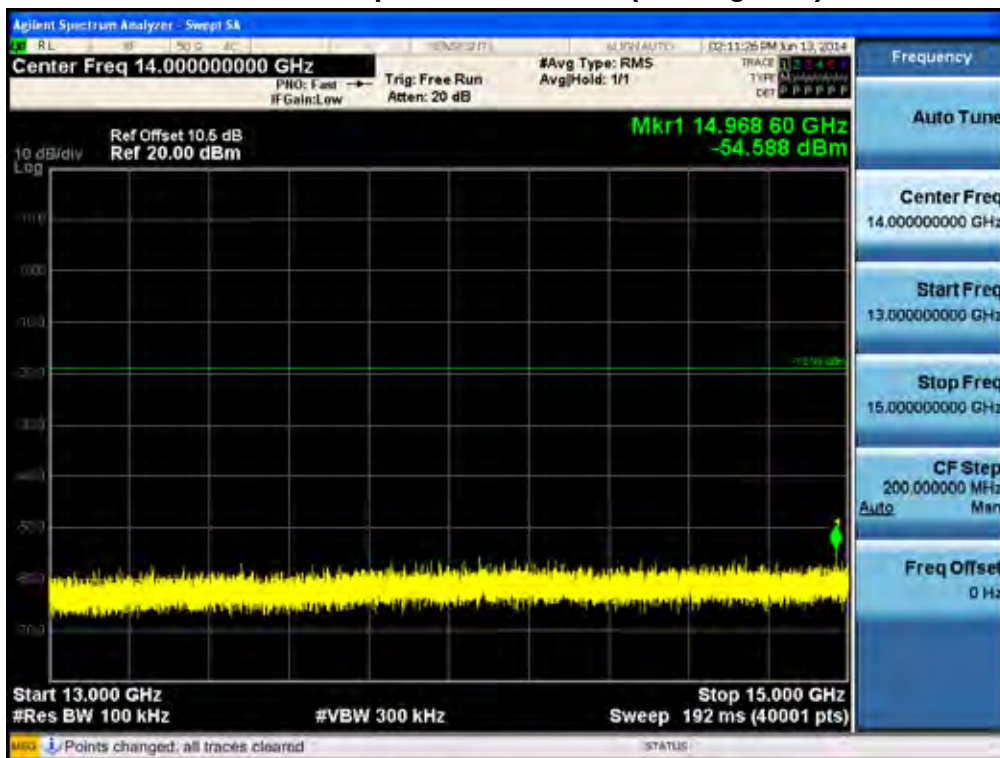
11 GHz ~ 13 GHz

Conducted Spurious Emission (802.11g-CH6)



13 GHz ~ 15 GHz

Conducted Spurious Emission (802.11g-CH6)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

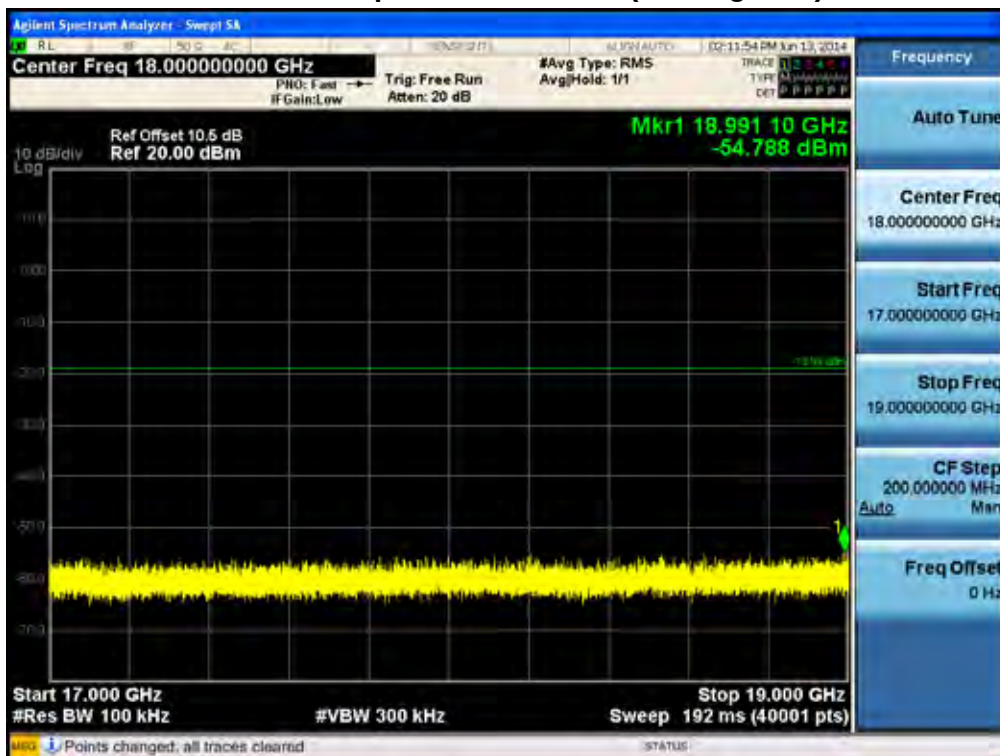
15 GHz ~ 17 GHz

Conducted Spurious Emission (802.11g-CH6)



17 GHz ~ 19 GHz

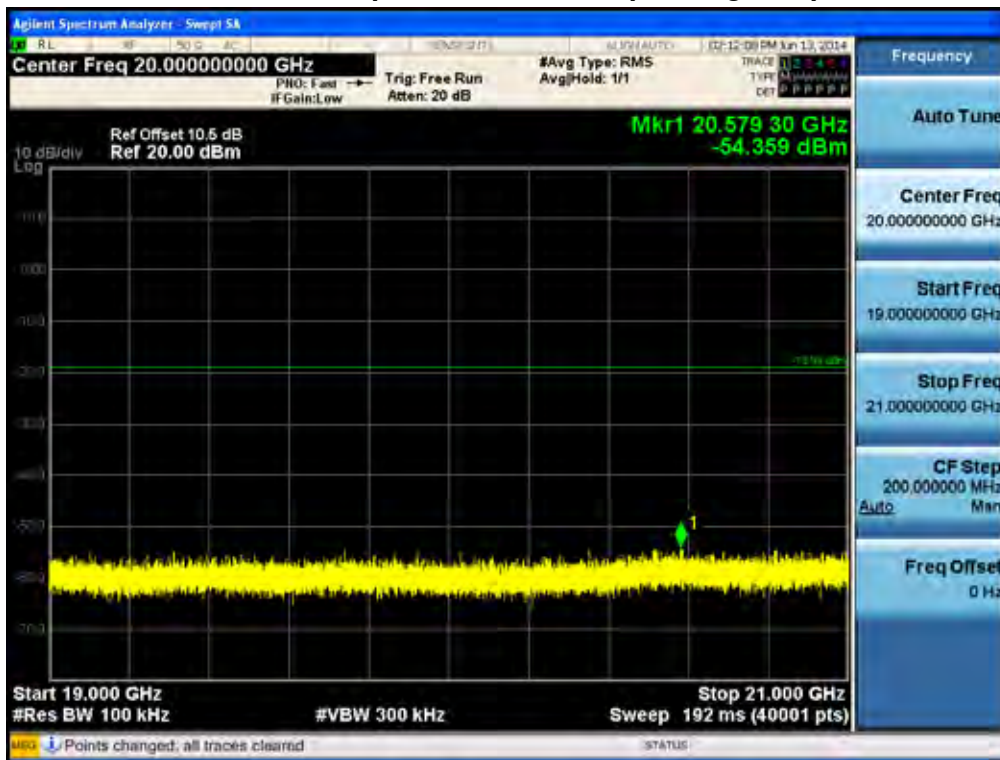
Conducted Spurious Emission (802.11g-CH6)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

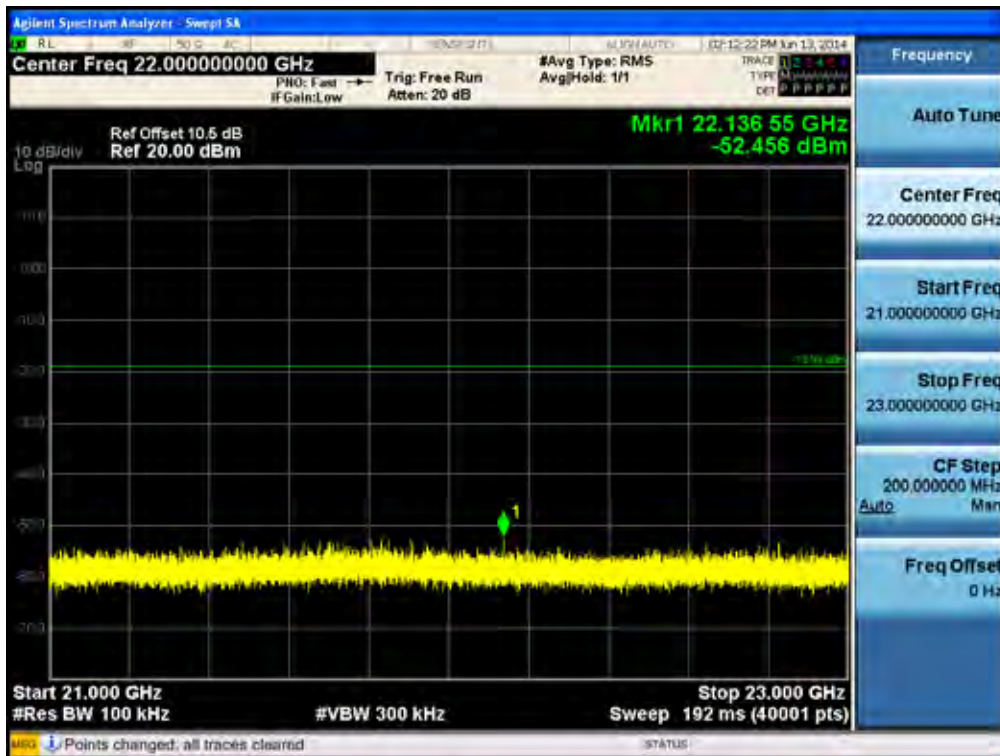
19 GHz ~ 21 GHz

Inducted Spurious Emission (802.11g-CH6)



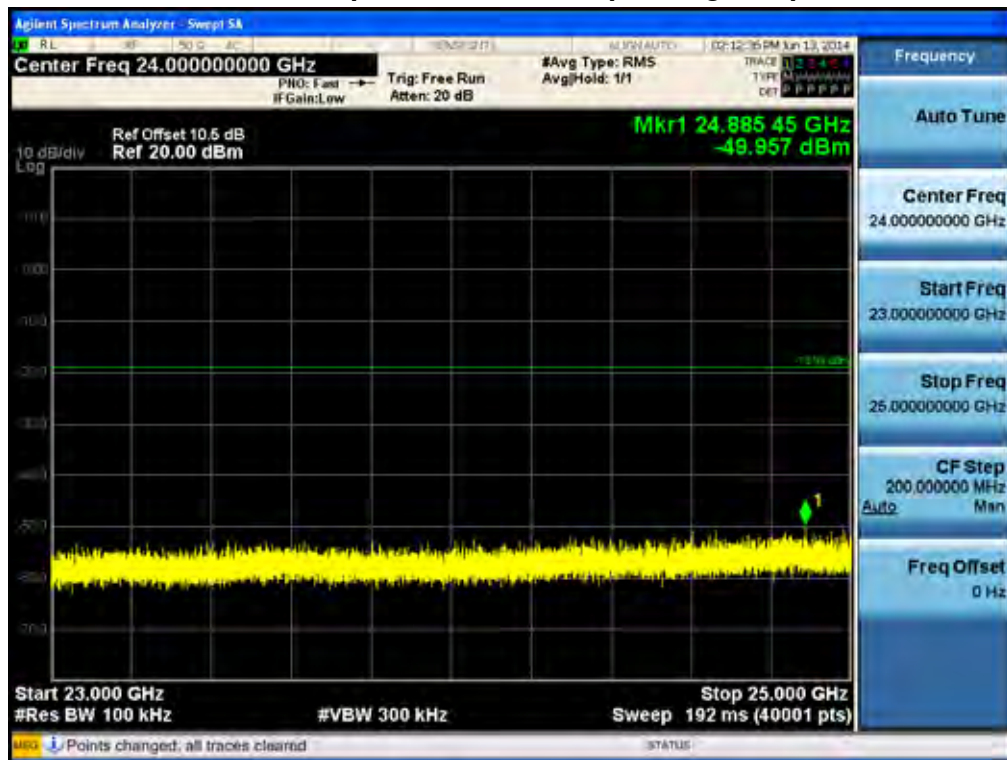
21 GHz ~ 23 GHz

Conducted Spurious Emission (802.11g-CH6)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

Conducted Spurious Emission (802.11g-CH6)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

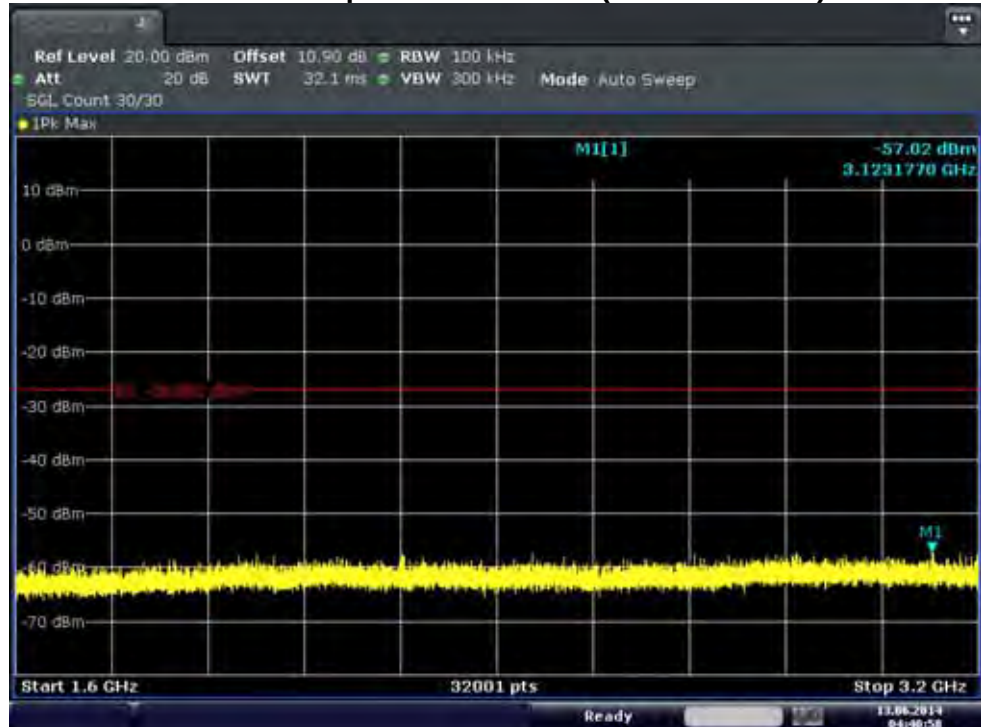
5.8 GHz Band 30 MHz ~ 1.6 GHz

Conducted Spurious Emission (802.11a-CH149)



1.6 GHz ~ 3.2 GHz

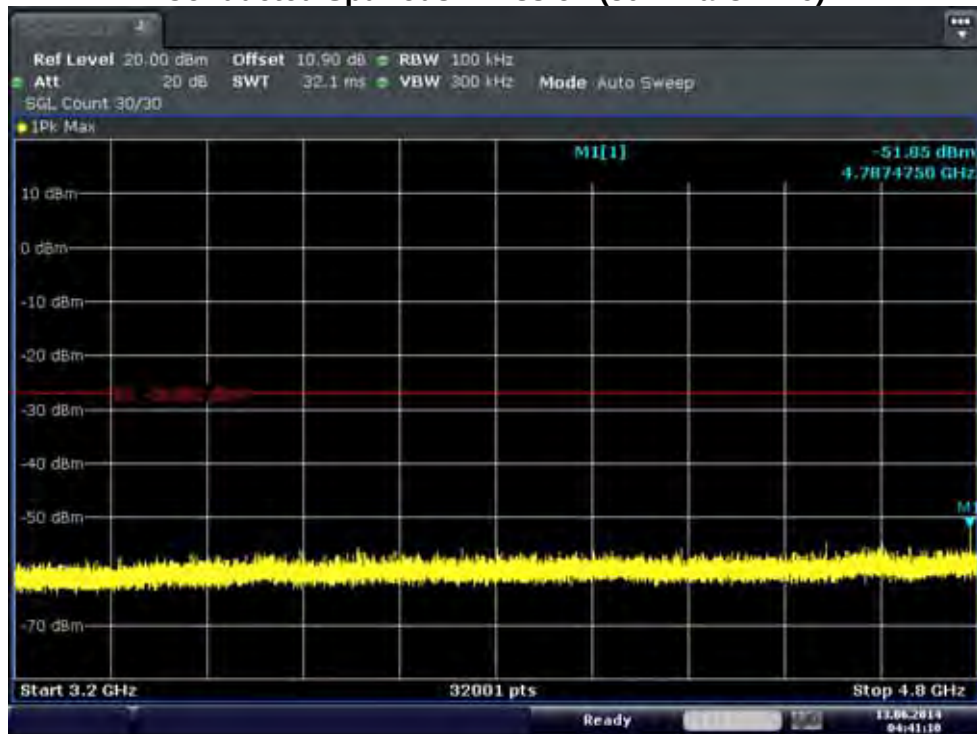
Conducted Spurious Emission (802.11a-CH149)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

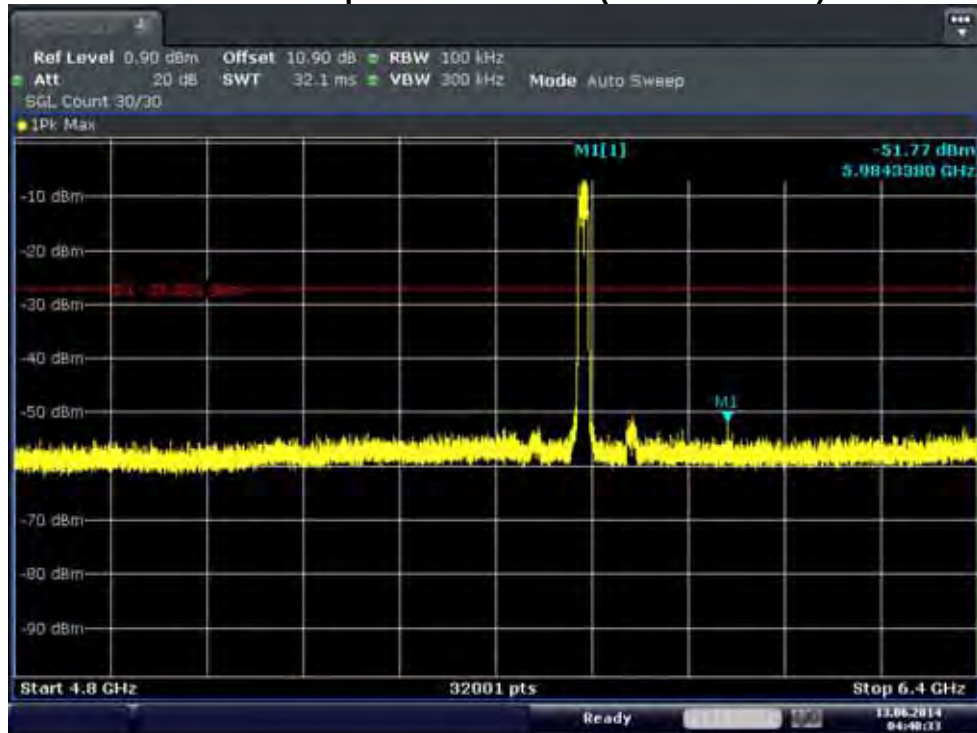
3.2 GHz ~ 4.8 GHz

Conducted Spurious Emission (802.11a-CH149)



4.8 GHz ~ 6.4 GHz

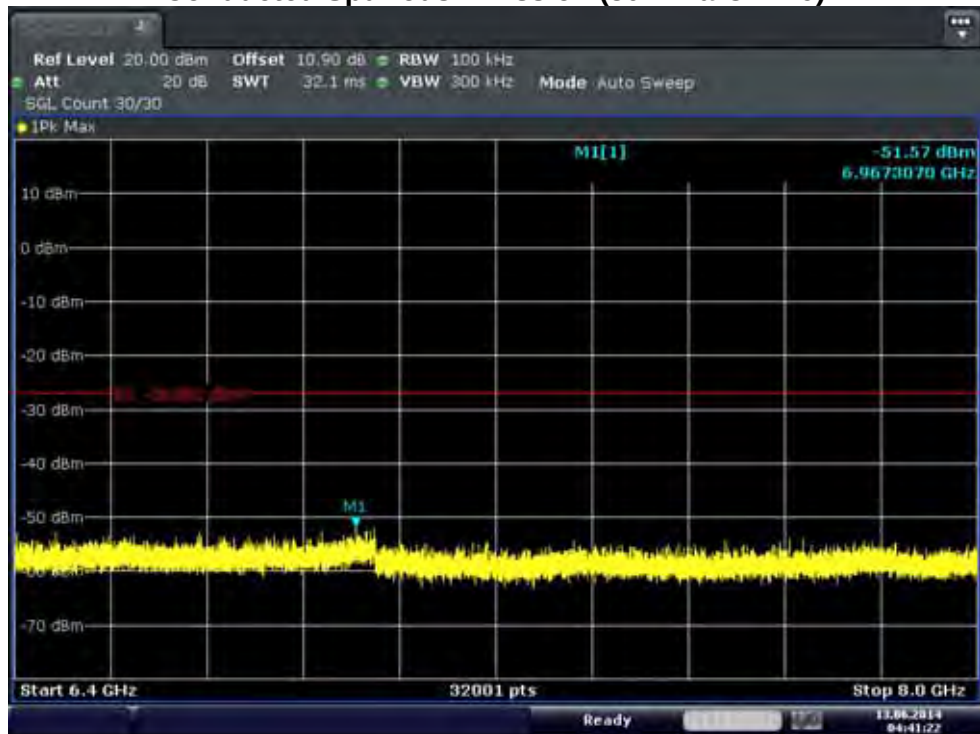
Conducted Spurious Emission (802.11a-CH149)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

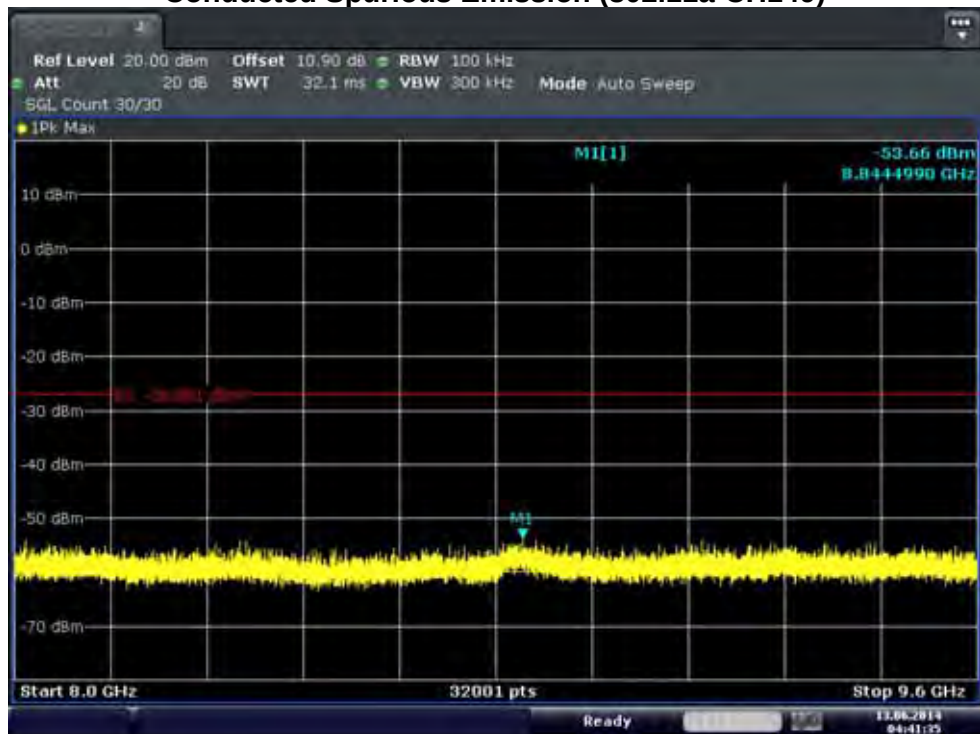
6.4 GHz ~ 8 GHz

Conducted Spurious Emission (802.11a-CH149)



8 GHz ~ 9.6 GHz

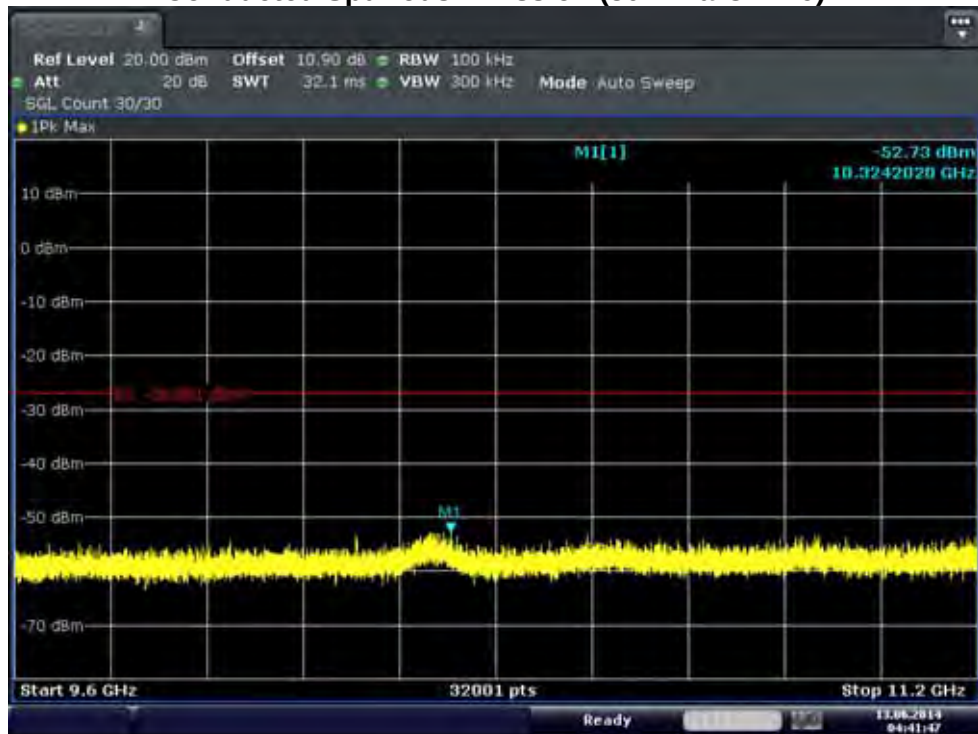
Conducted Spurious Emission (802.11a-CH149)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

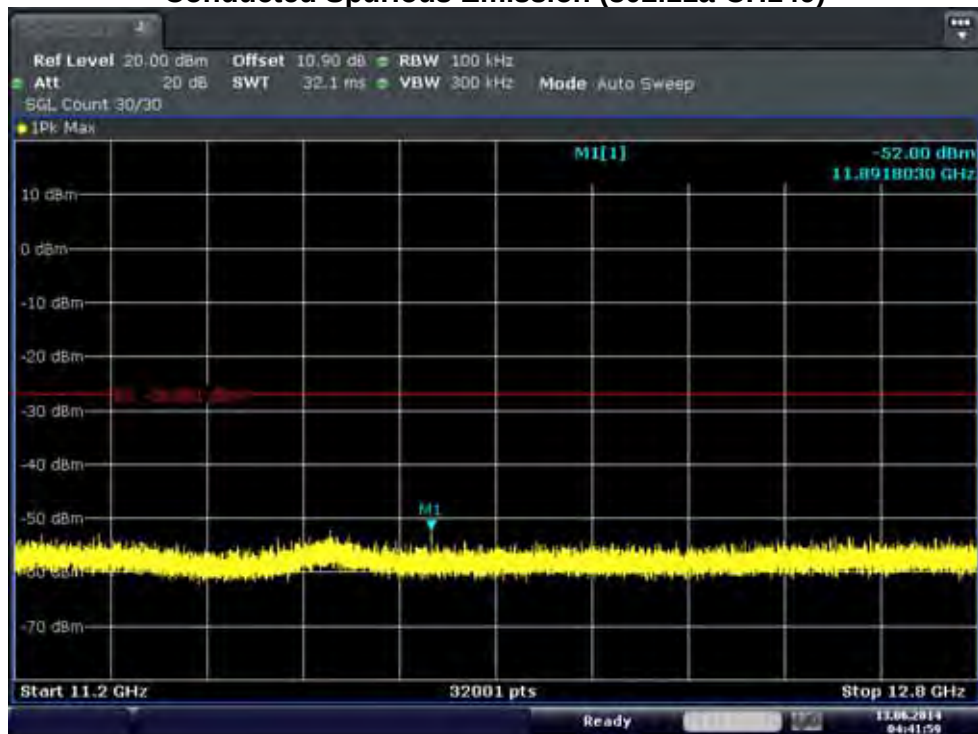
9.6 GHz ~ 11.2 GHz

Conducted Spurious Emission (802.11a-CH149)



11.2 GHz ~ 12.8 GHz

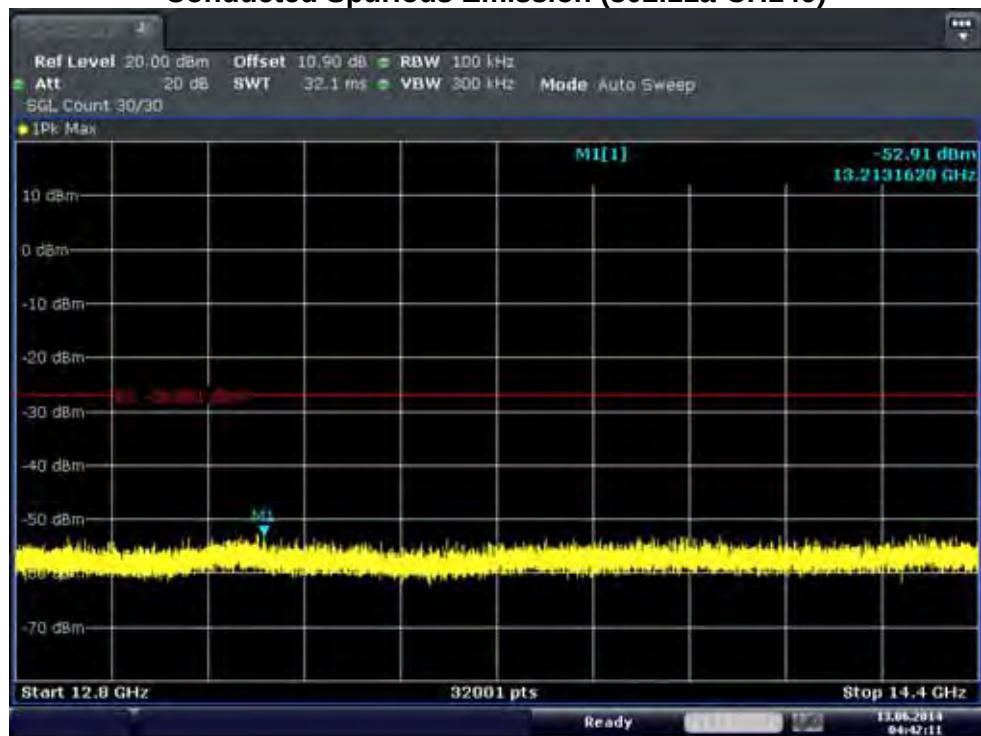
Conducted Spurious Emission (802.11a-CH149)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

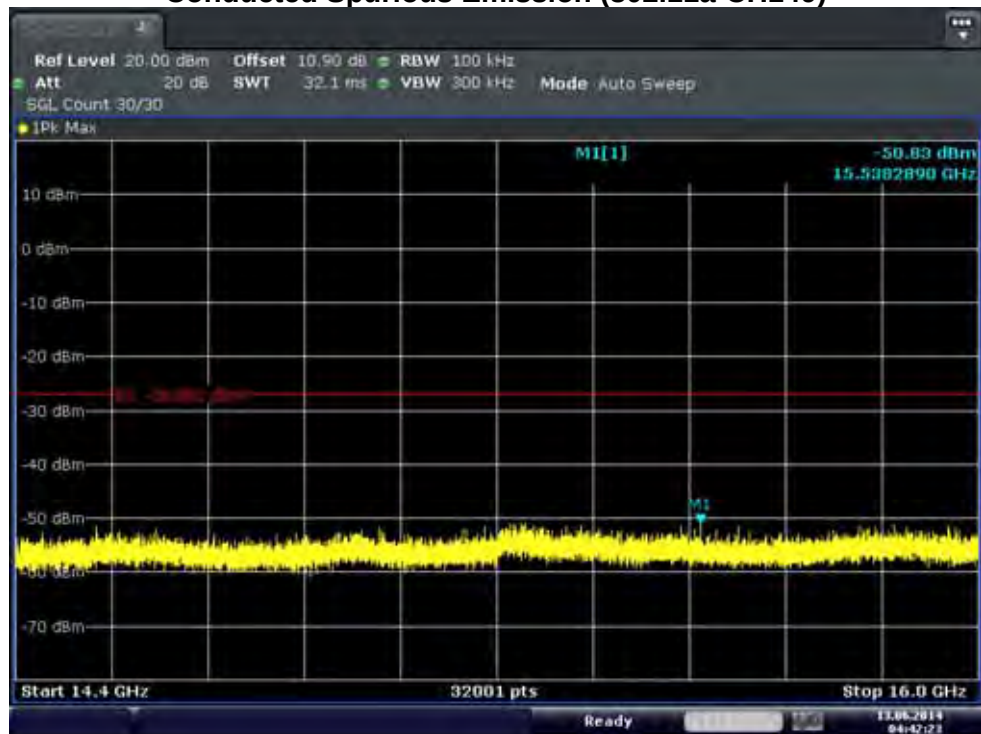
12.8 GHz ~ 12.8 GHz

Conducted Spurious Emission (802.11a-CH149)



14.4 GHz ~ 16 GHz

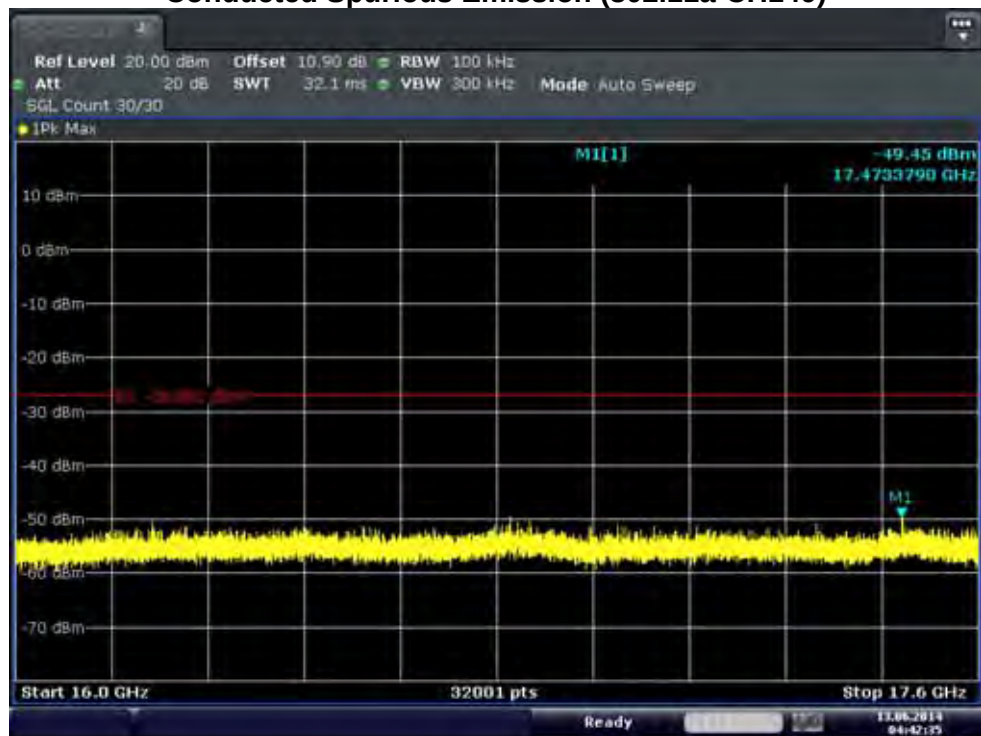
Conducted Spurious Emission (802.11a-CH149)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

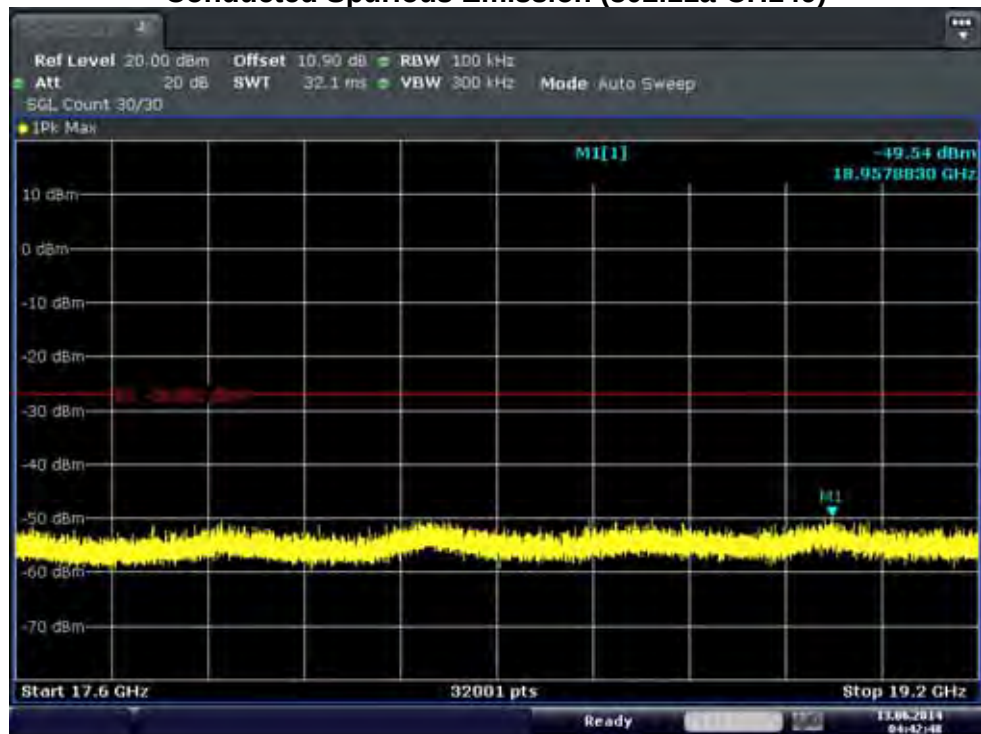
16 GHz ~ 17.6 GHz

Conducted Spurious Emission (802.11a-CH149)



17.6 GHz ~ 19.2 GHz

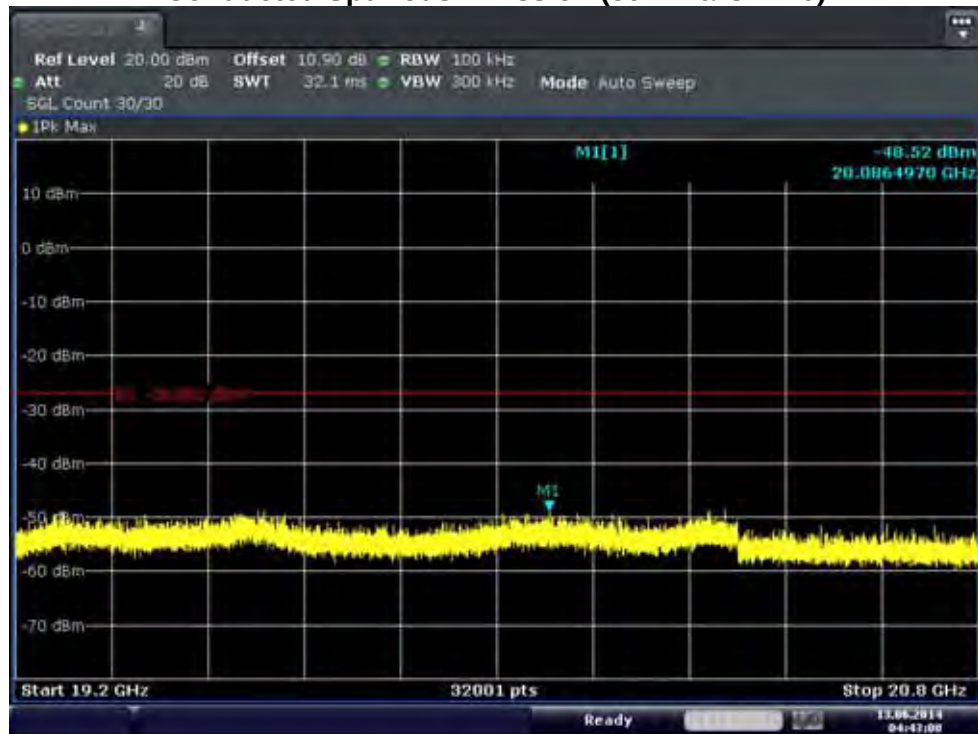
Conducted Spurious Emission (802.11a-CH149)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

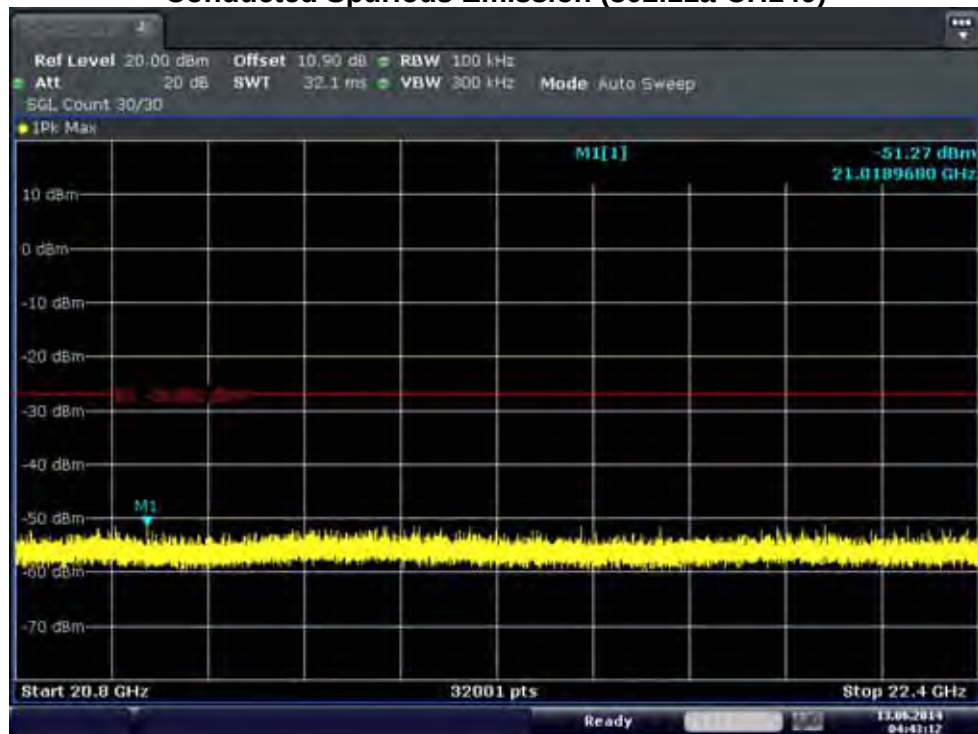
19.2 GHz ~ 20.8 GHz

Conducted Spurious Emission (802.11a-CH149)



20.8 GHz ~ 22.4 GHz

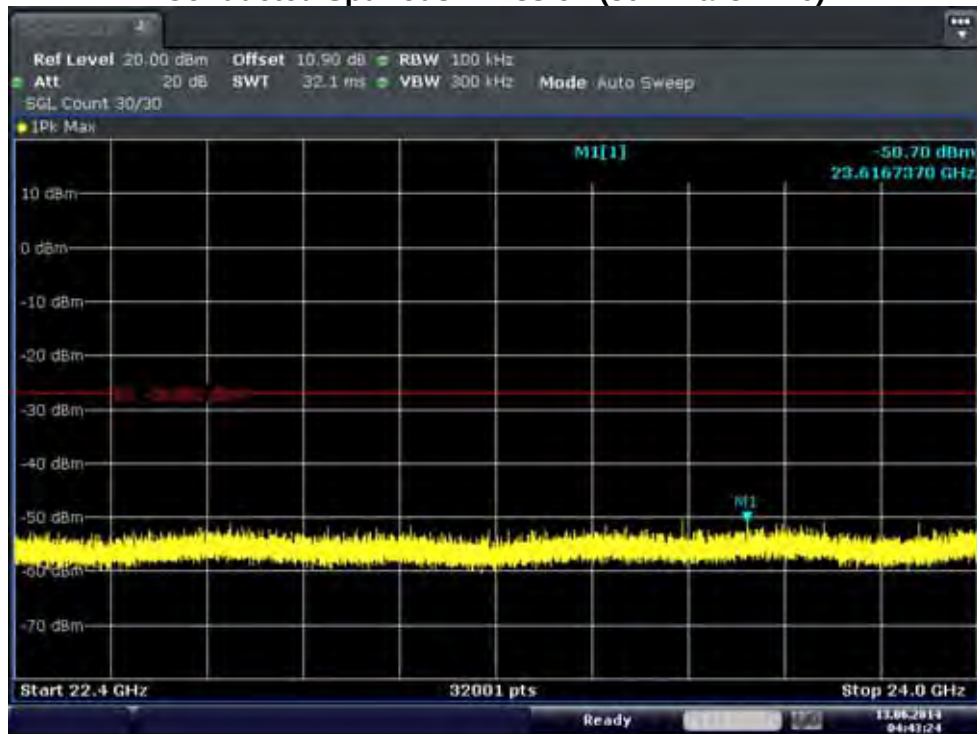
Conducted Spurious Emission (802.11a-CH149)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

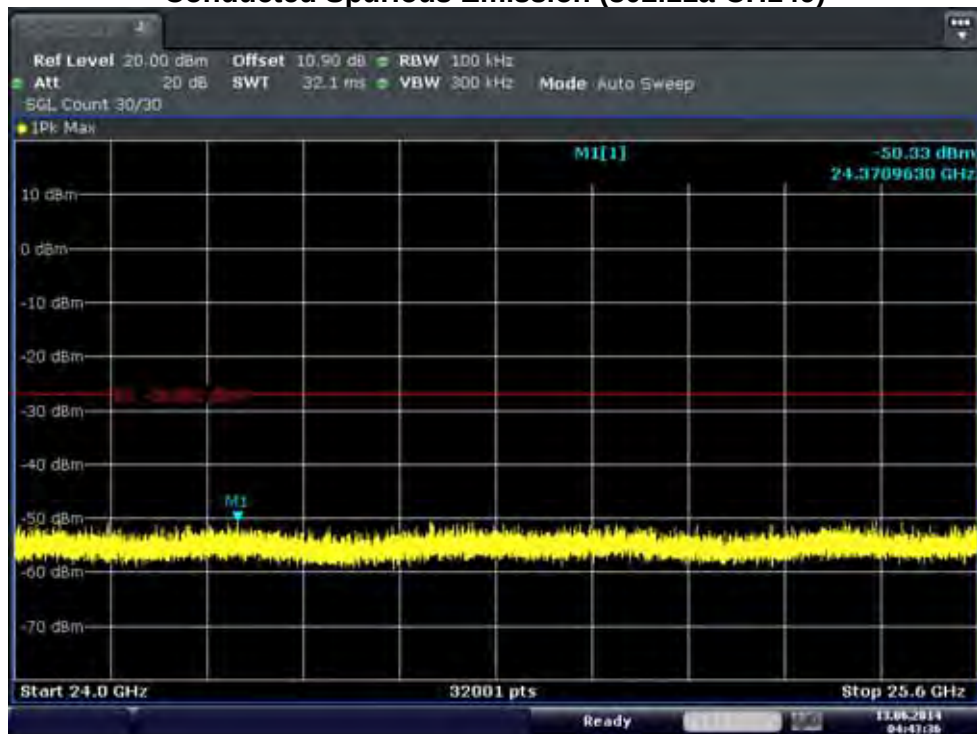
22.4 GHz ~ 24 GHz

Conducted Spurious Emission (802.11a-CH149)



24 GHz ~ 25.6 GHz

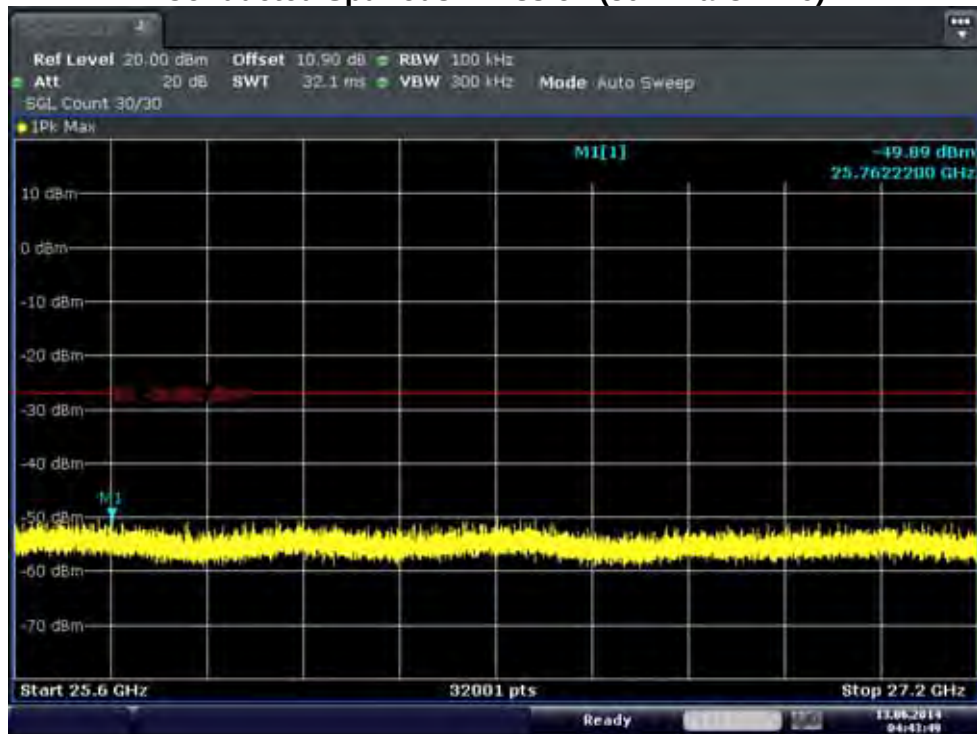
Conducted Spurious Emission (802.11a-CH149)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

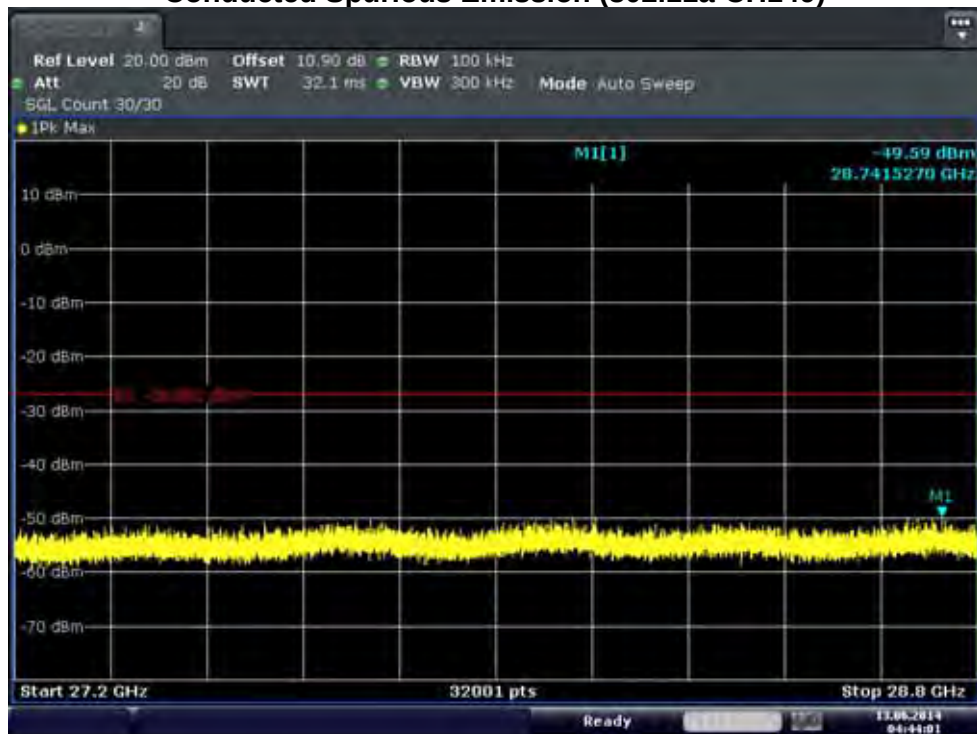
25.6 GHz ~ 27.2 GHz

Conducted Spurious Emission (802.11a-CH149)



27.2 GHz ~ 28.8 GHz

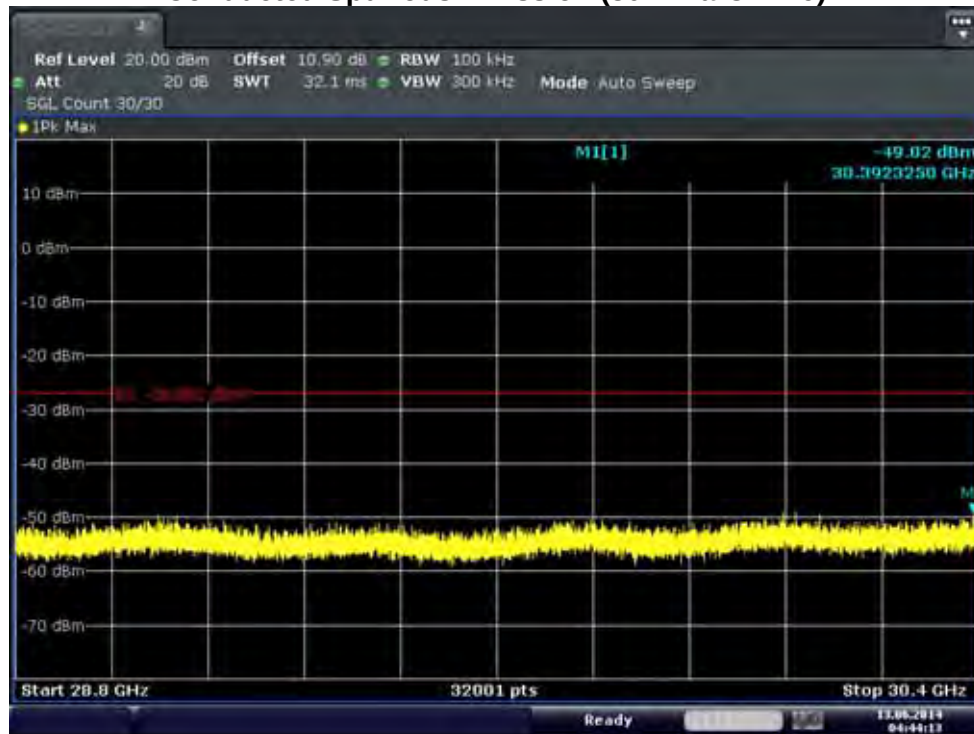
Conducted Spurious Emission (802.11a-CH149)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

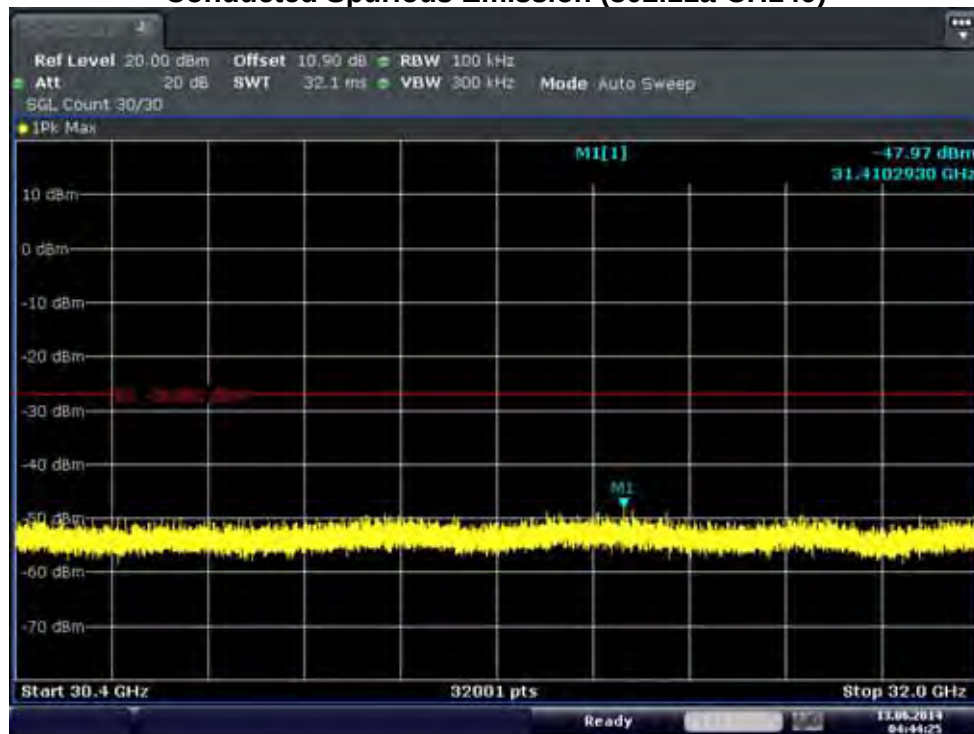
28.8 GHz ~ 30.4 GHz

Conducted Spurious Emission (802.11a-CH149)



30.4 GHz ~ 32 GHz

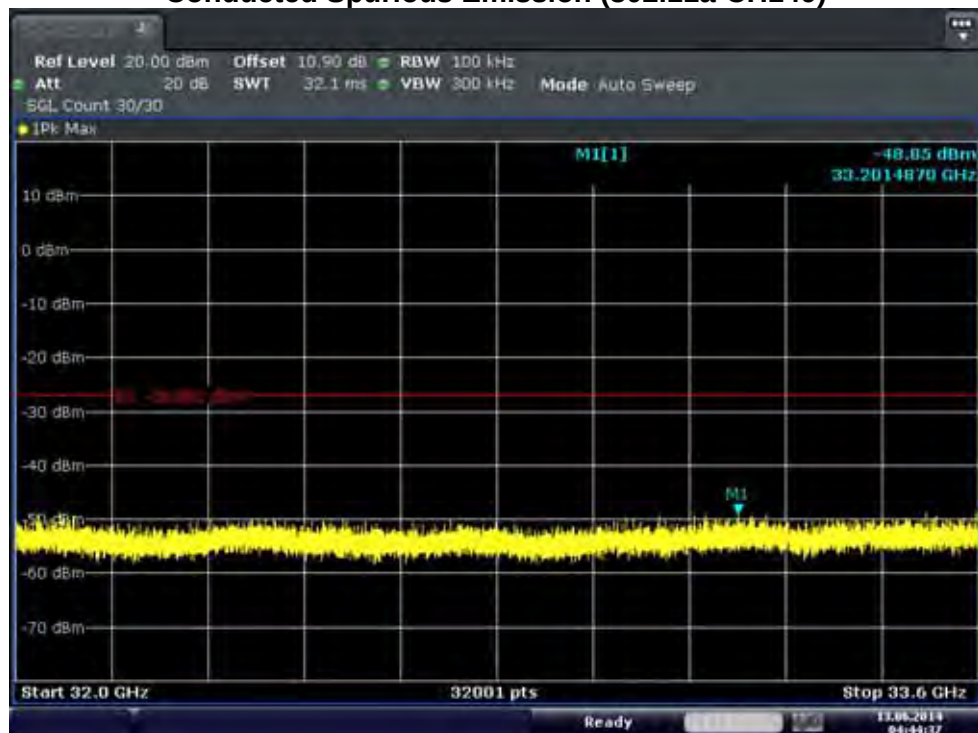
Conducted Spurious Emission (802.11a-CH149)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

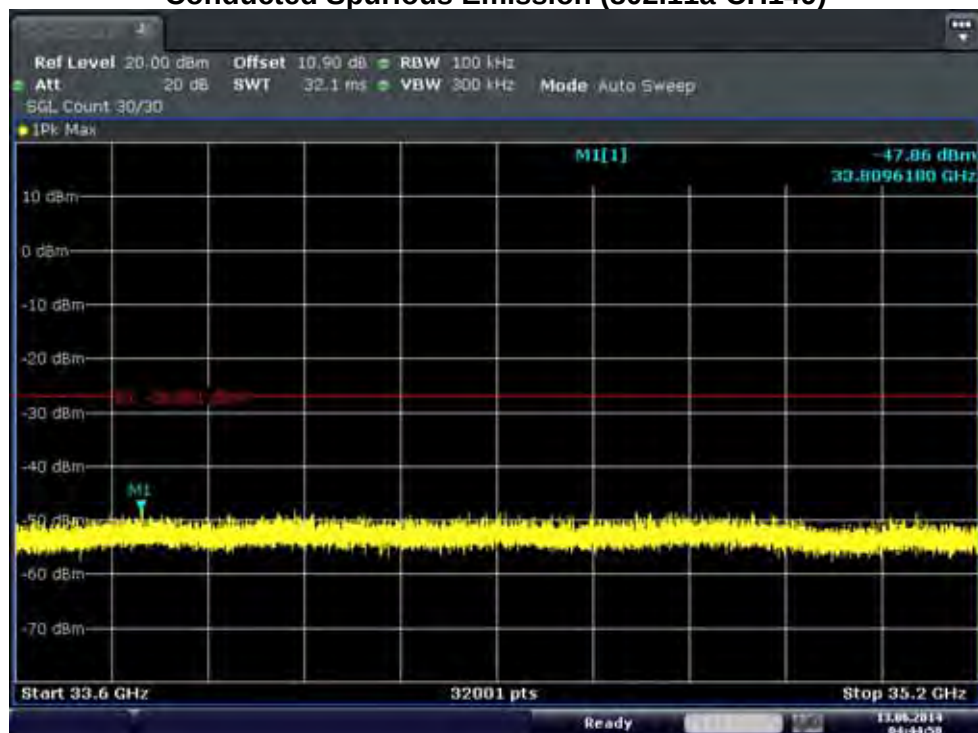
32 GHz ~ 33.6 GHz

Conducted Spurious Emission (802.11a-CH149)



33.6 GHz ~ 35.2 GHz

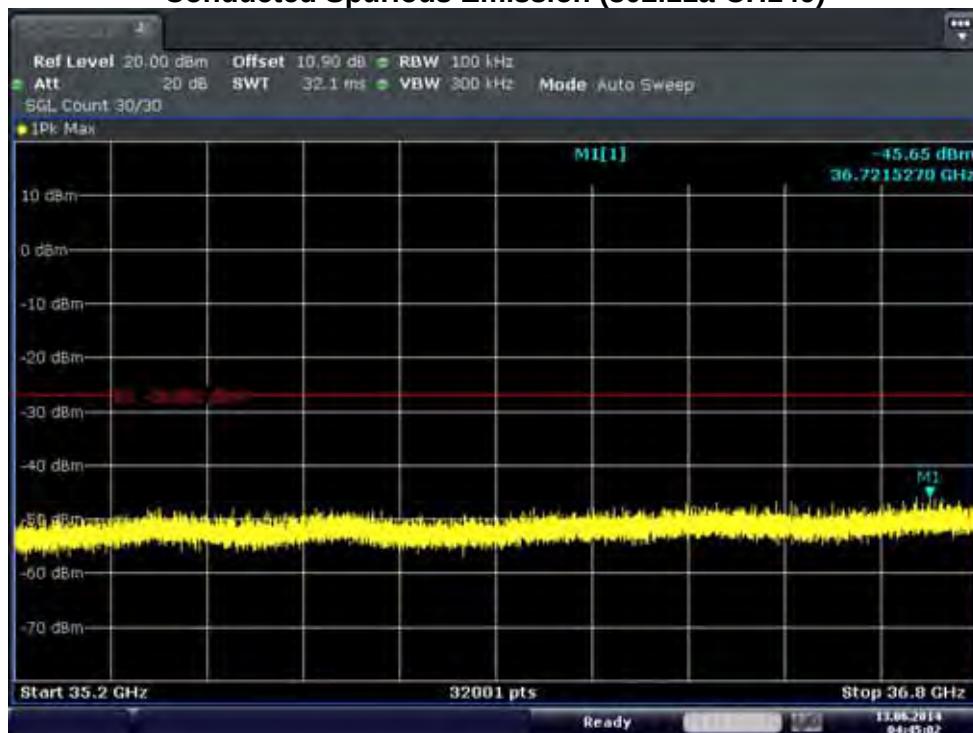
Conducted Spurious Emission (802.11a-CH149)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

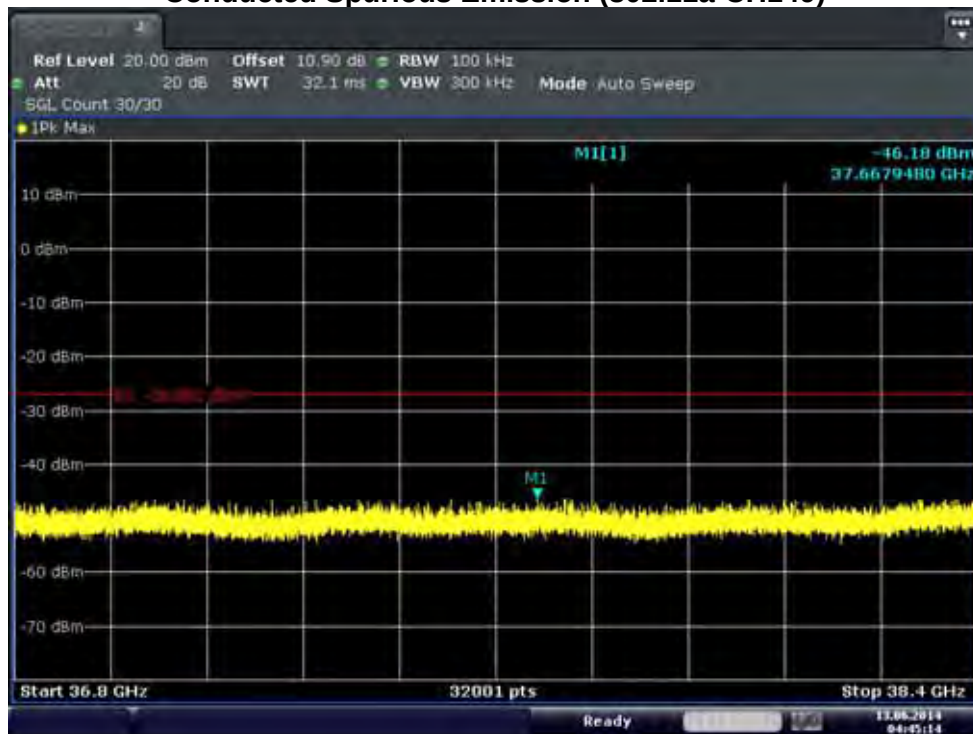
35.2 GHz ~ 36.8 GHz

Conducted Spurious Emission (802.11a-CH149)



36.8 GHz ~ 38.4 GHz

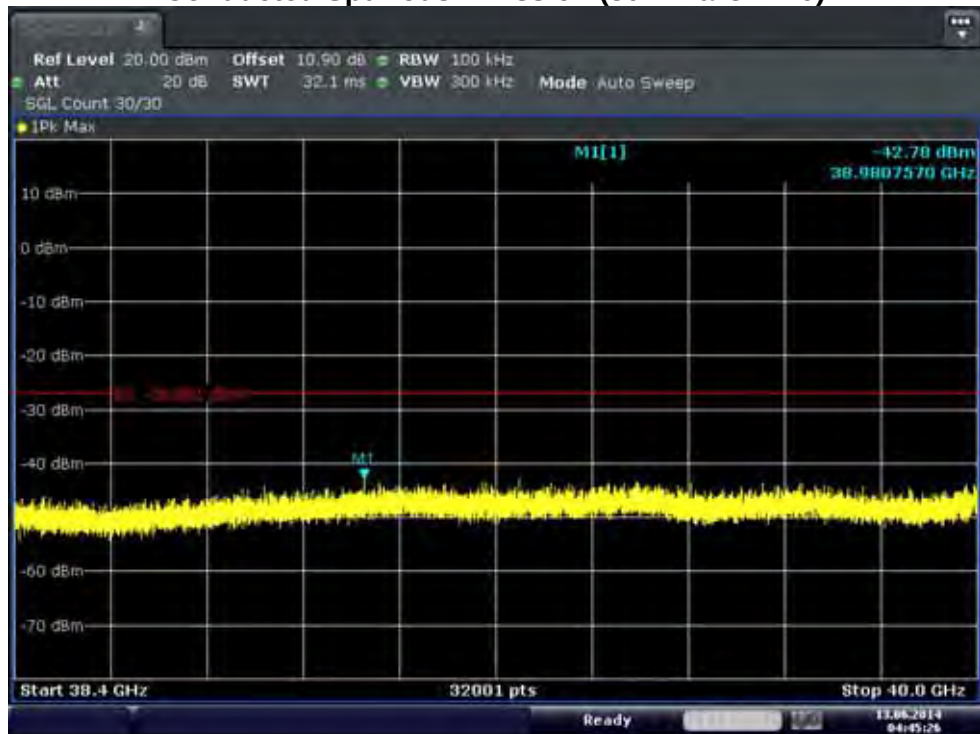
Conducted Spurious Emission (802.11a-CH149)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

38.4 GHz ~ 40 GHz

Conducted Spurious Emission (802.11a-CH149)



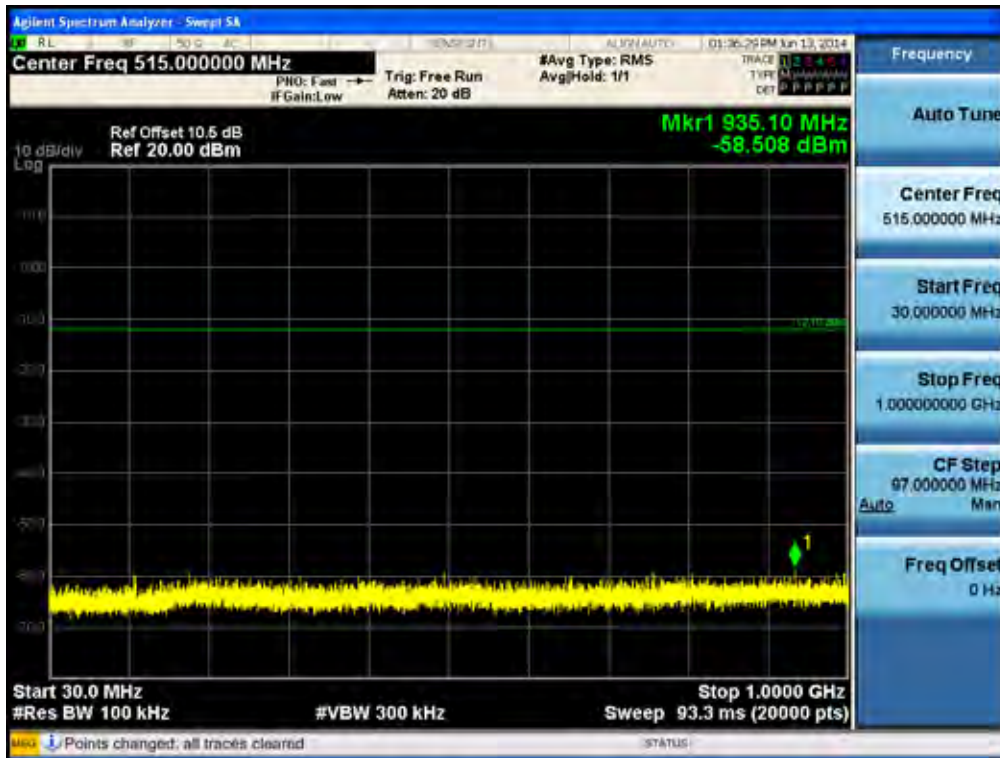
FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

Service Port Ant.0

2.4 GHz Band

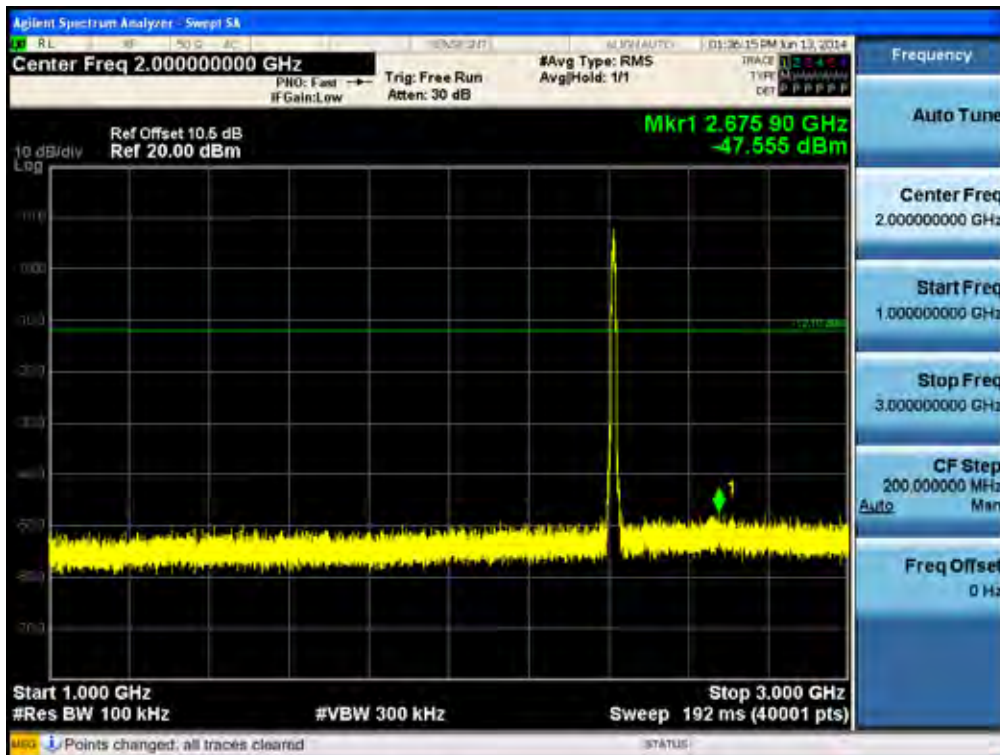
30 MHz ~ 1 GHz

Conducted Spurious Emission (802.11b-CH1)



1 GHz ~ 3 GHz

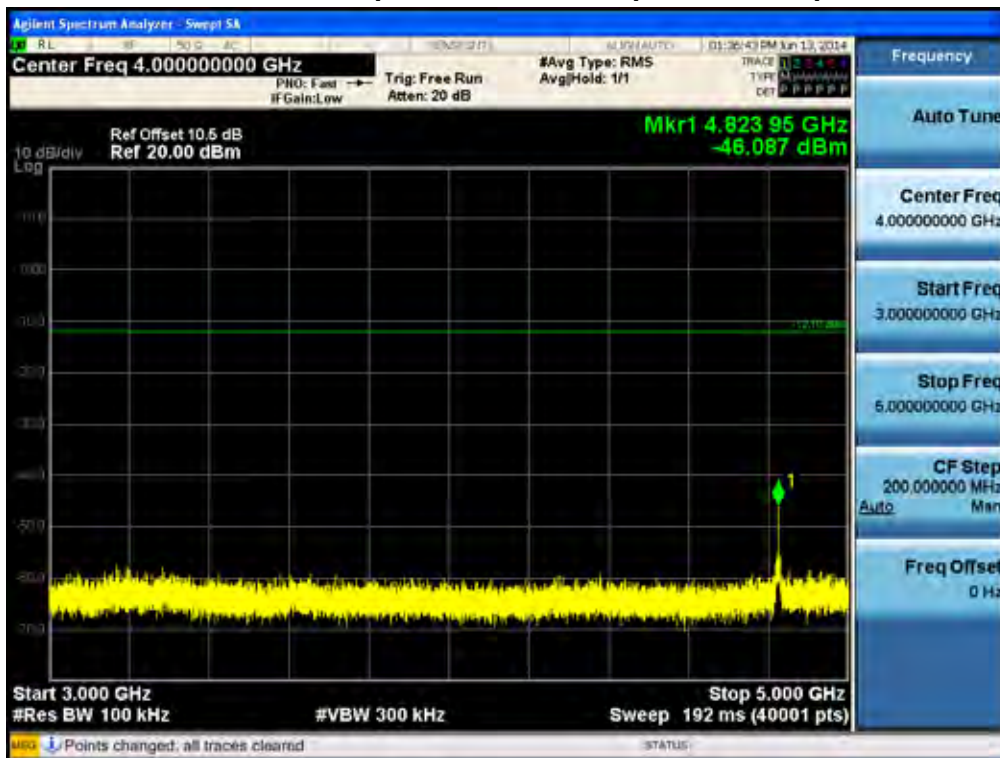
Conducted Spurious Emission (802.11b-CH1)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

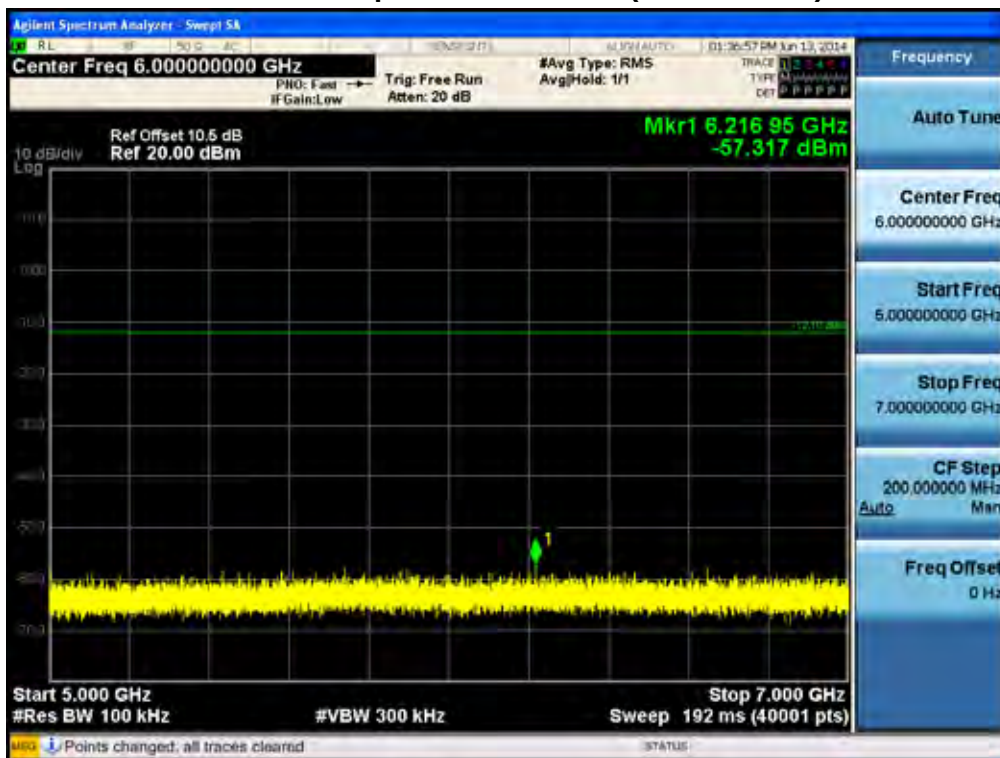
3 GHz ~ 5 GHz

Conducted Spurious Emission (802.11b-CH1)



5 GHz ~ 7 GHz

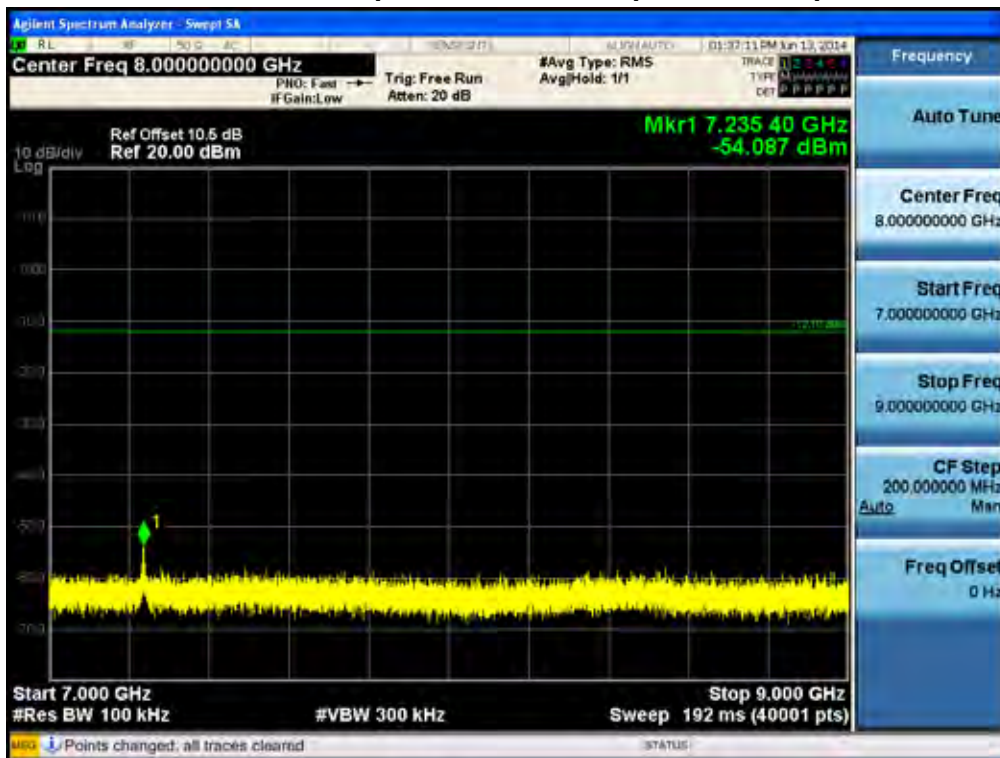
Conducted Spurious Emission (802.11b-CH1)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

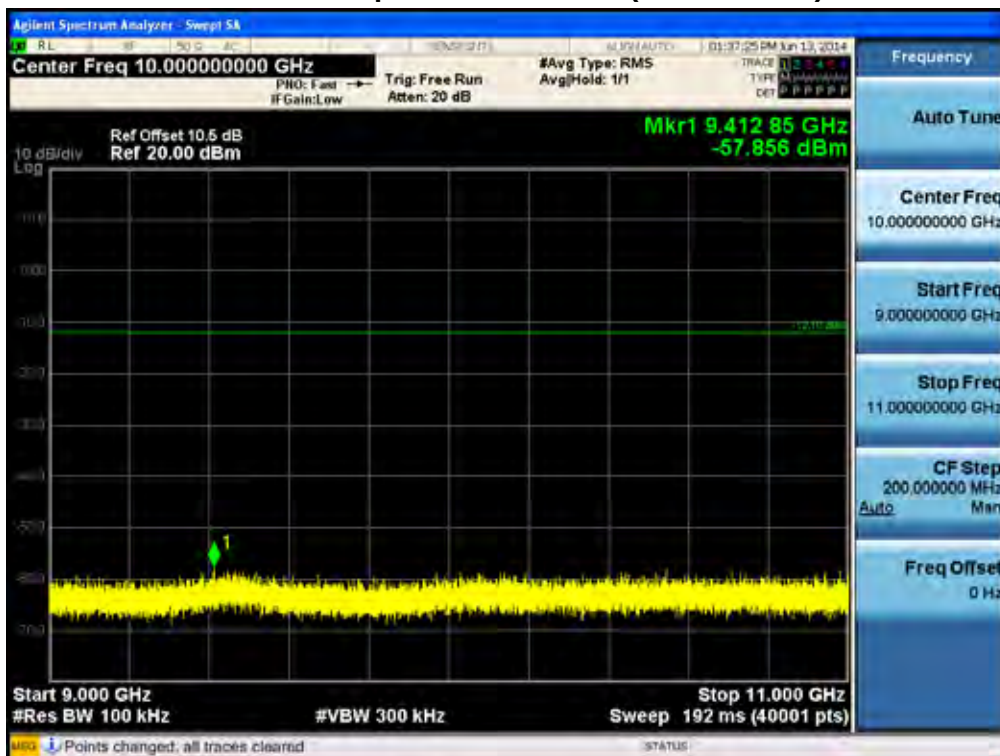
7 GHz ~ 9 GHz

Conducted Spurious Emission (802.11b-CH1)



9 GHz ~ 11 GHz

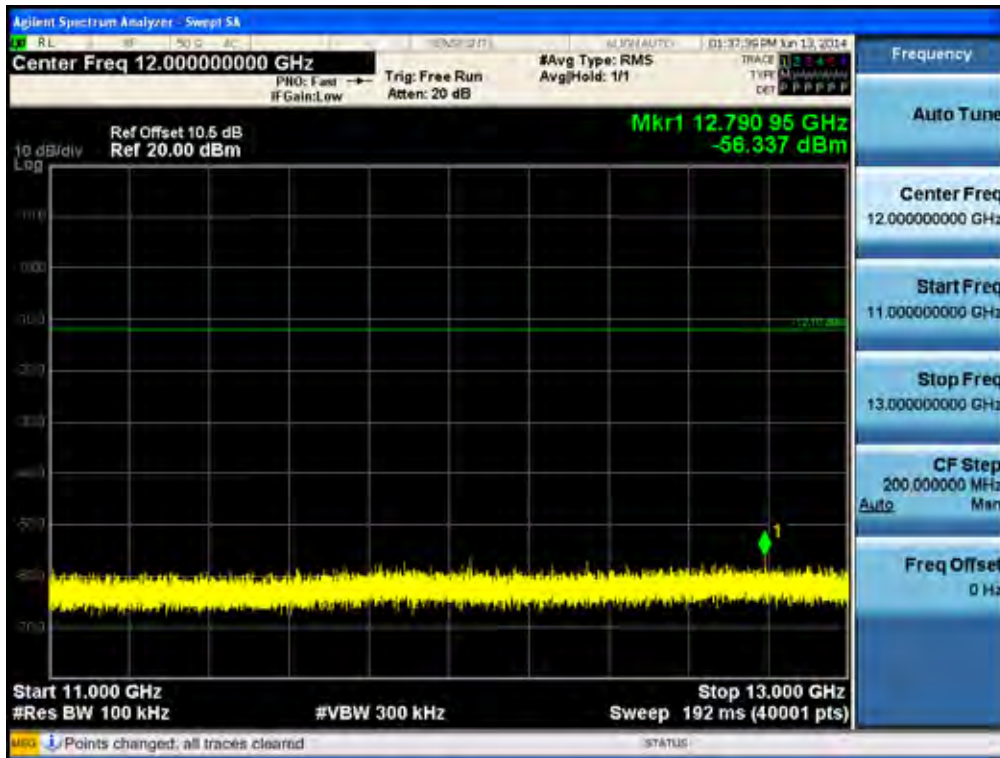
Conducted Spurious Emission (802.11b-CH1)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

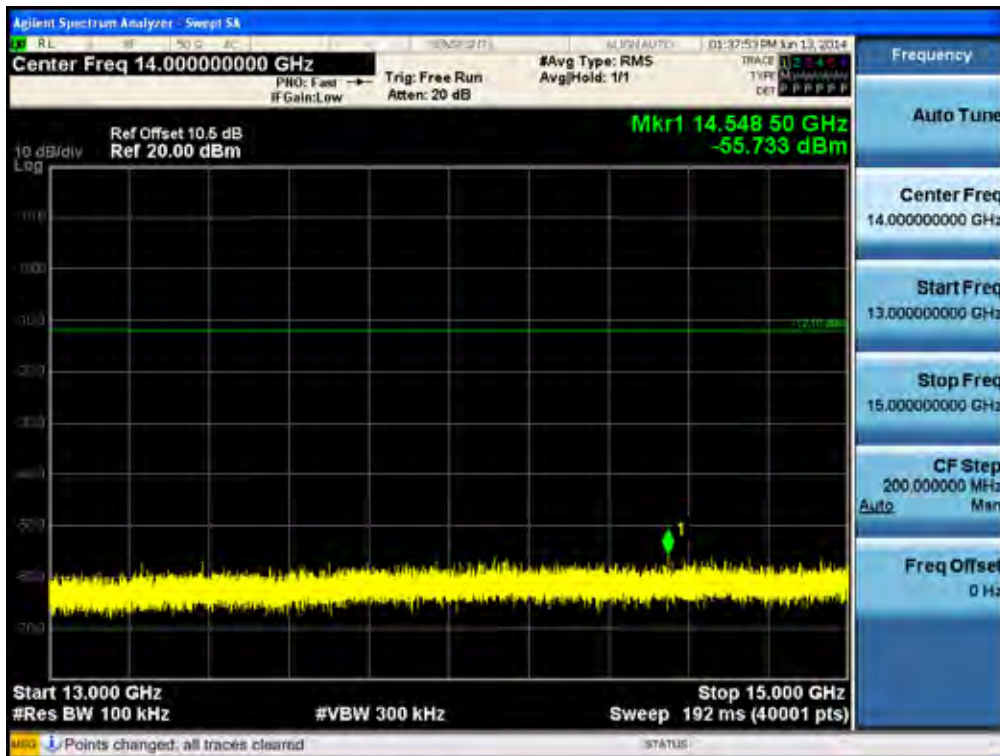
11 GHz ~ 13 GHz

Conducted Spurious Emission (802.11b-CH1)



13 GHz ~ 15 GHz

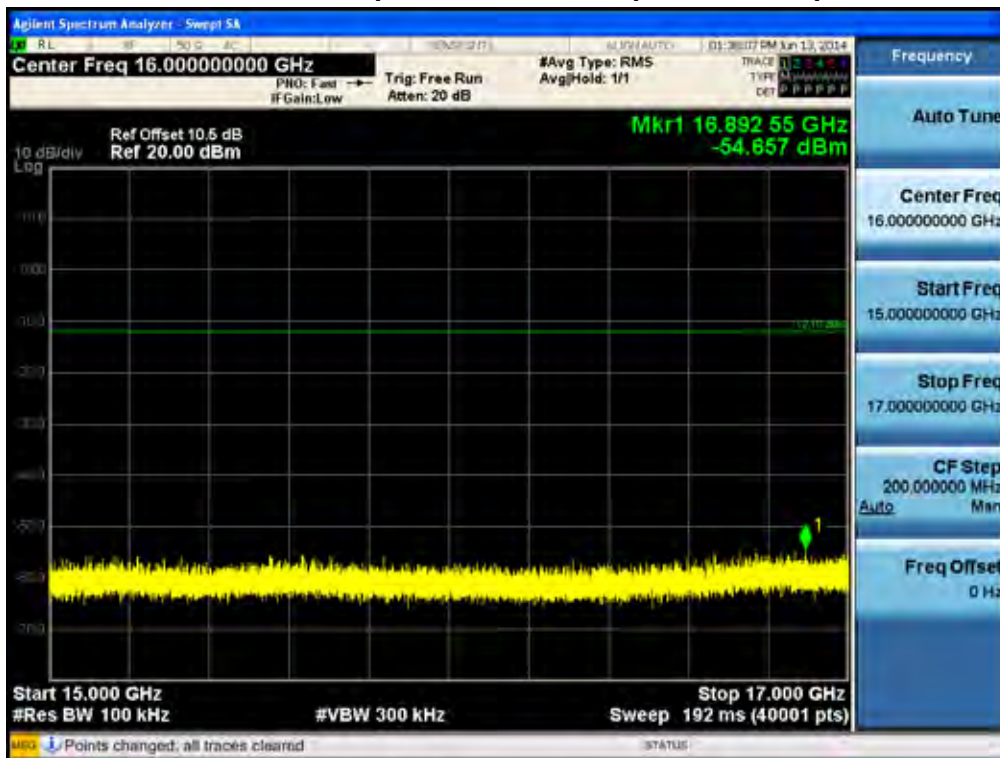
Conducted Spurious Emission (802.11b-CH1)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

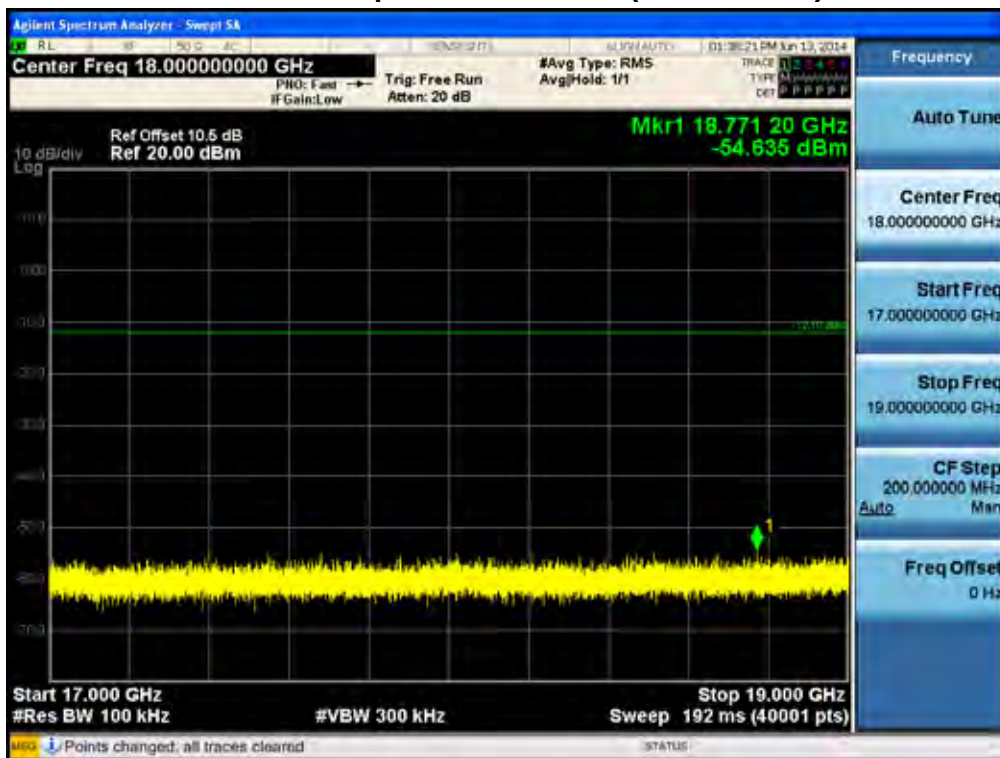
15 GHz ~ 17 GHz

Conducted Spurious Emission (802.11b-CH1)



17 GHz ~ 19 GHz

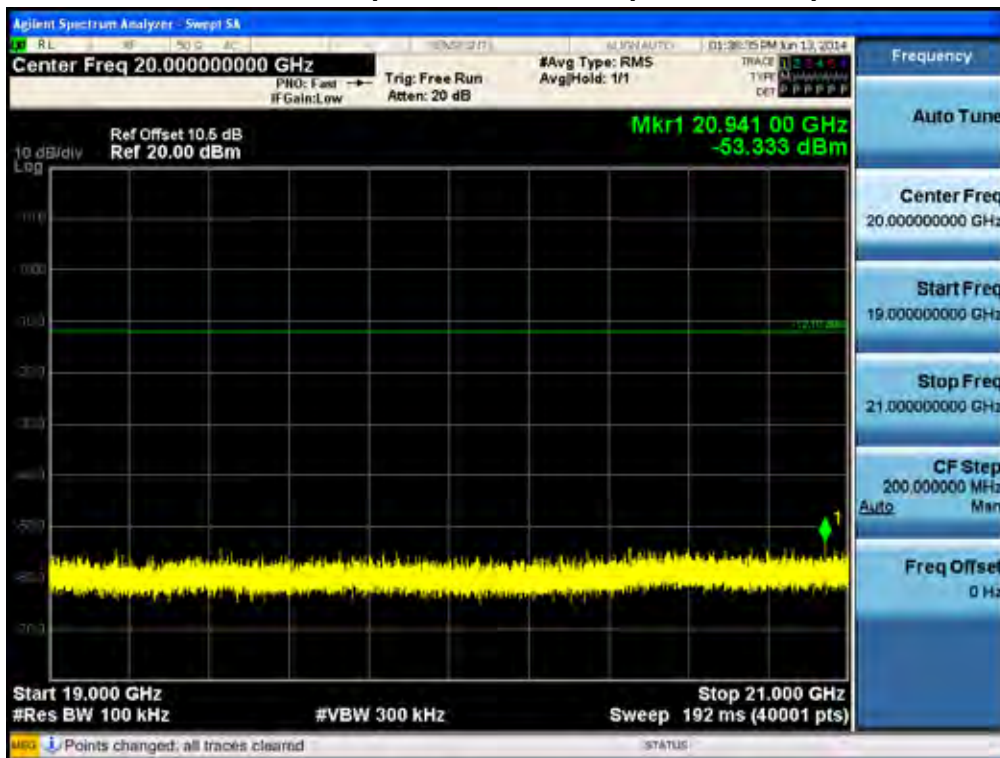
Conducted Spurious Emission (802.11b-CH1)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

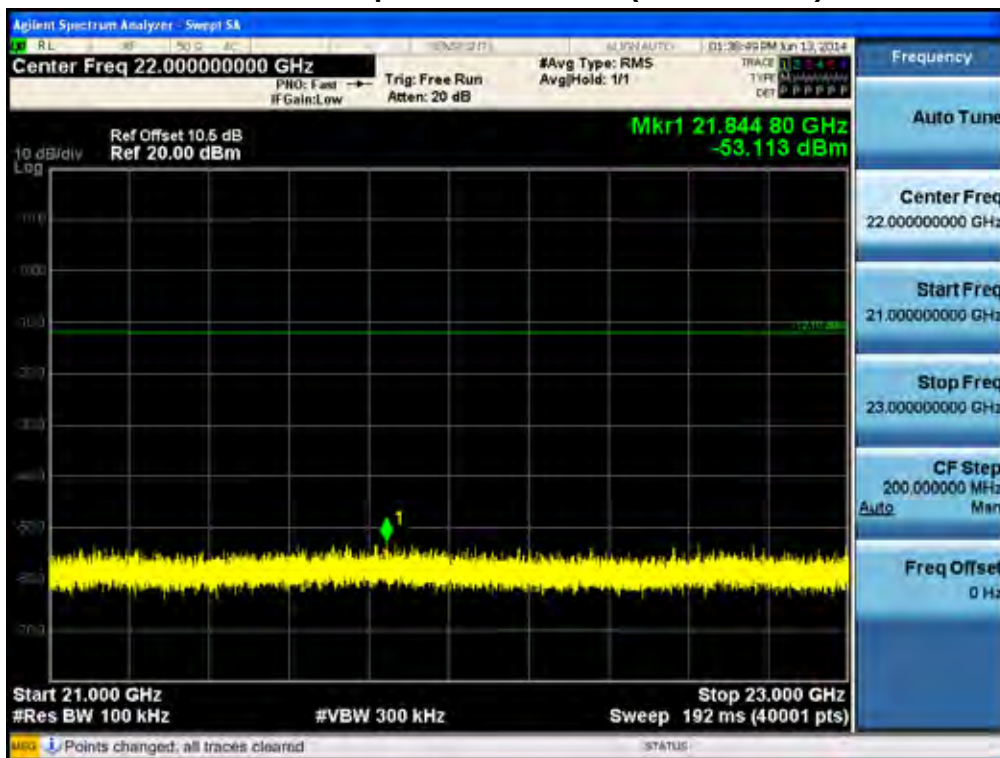
19 GHz ~ 21 GHz

Inducted Spurious Emission (802.11b-CH1)



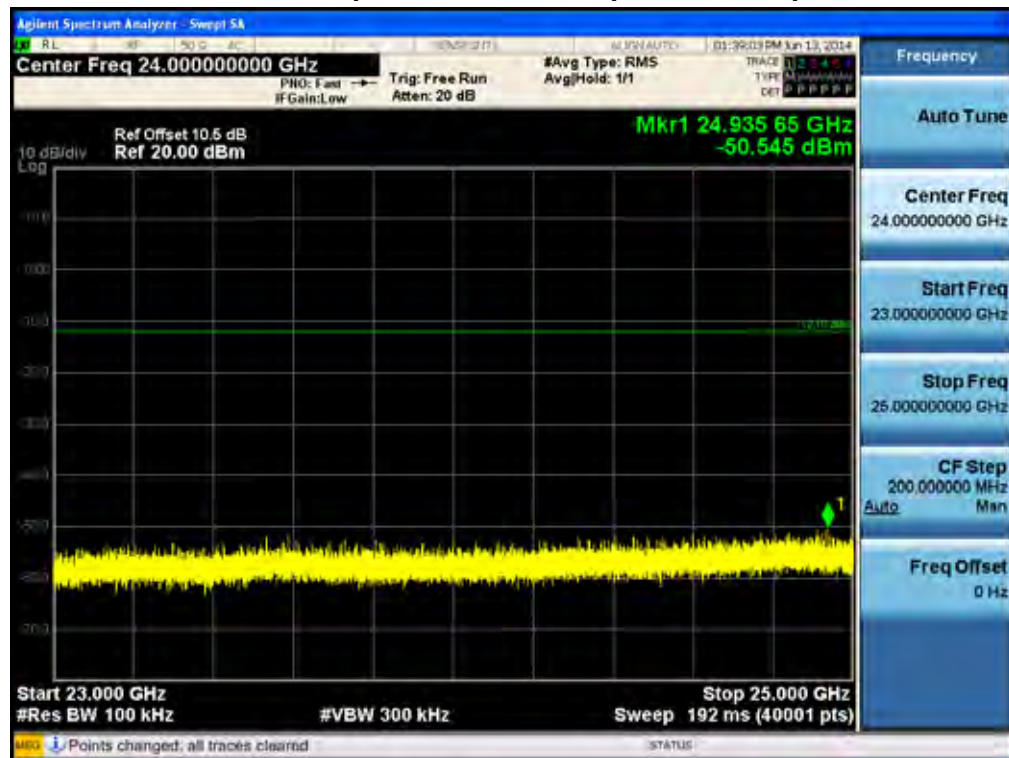
21 GHz ~ 23 GHz

Conducted Spurious Emission (802.11b-CH1)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

Conducted Spurious Emission (802.11b-CH1)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

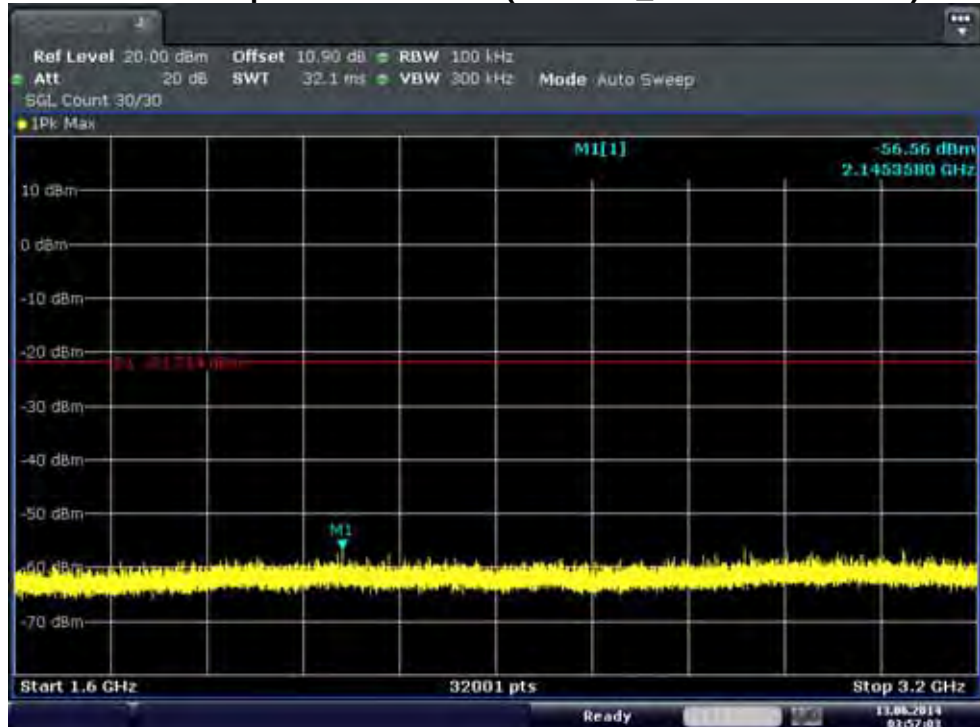
5.8 GHz Band
30 MHz ~ 1.6 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



1.6 GHz ~ 3.2 GHz

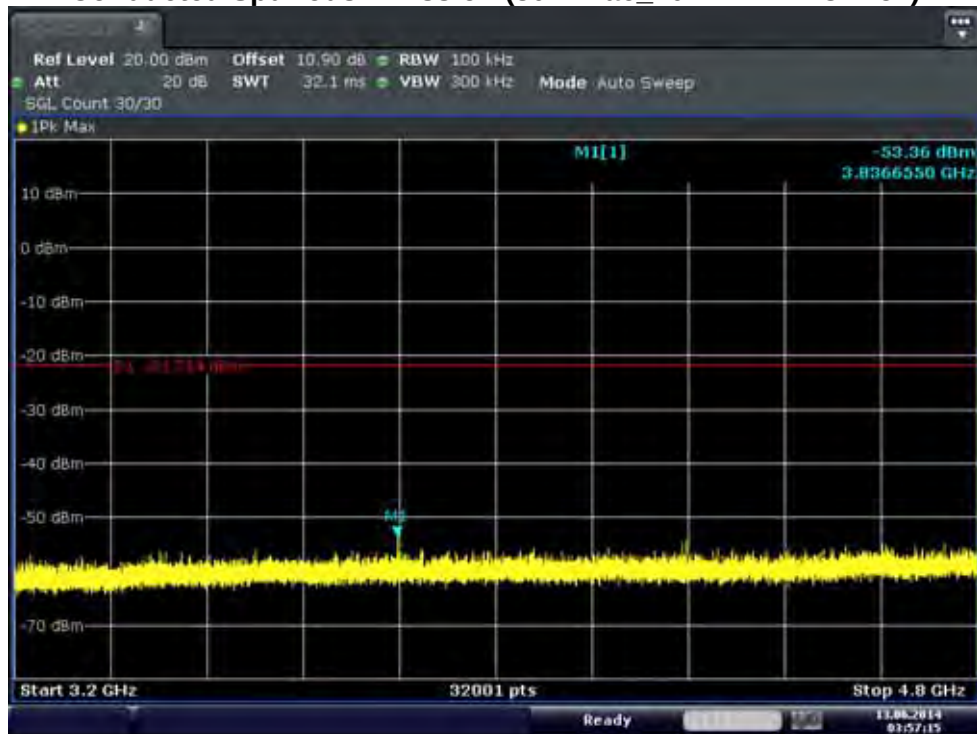
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

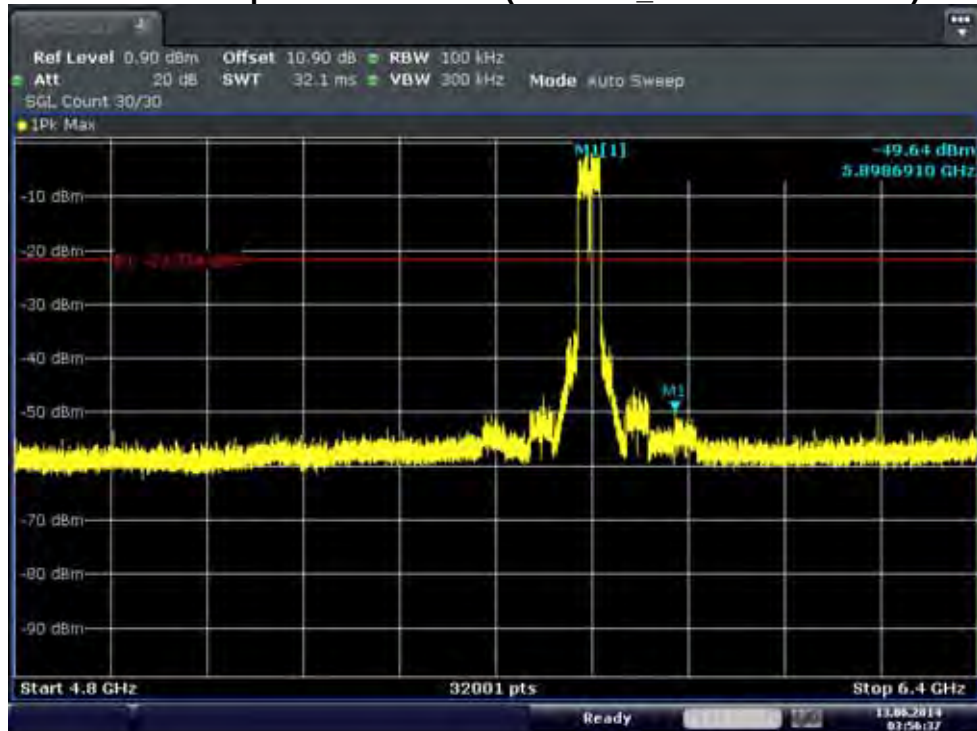
3.2 GHz ~ 4.8 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



4.8 GHz ~ 6.4 GHz

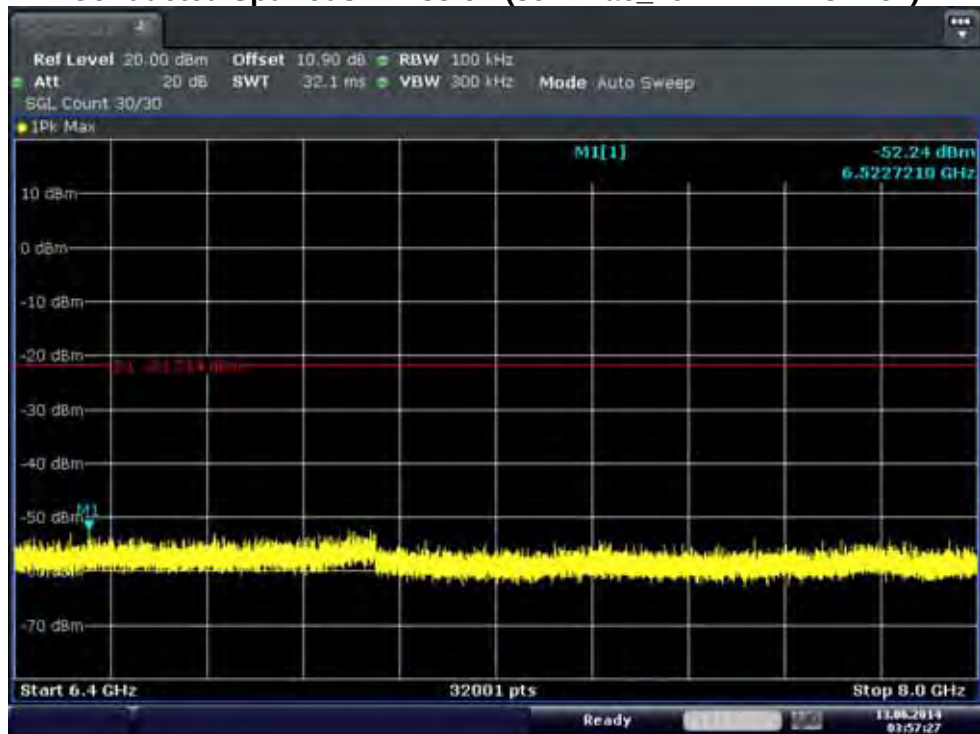
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

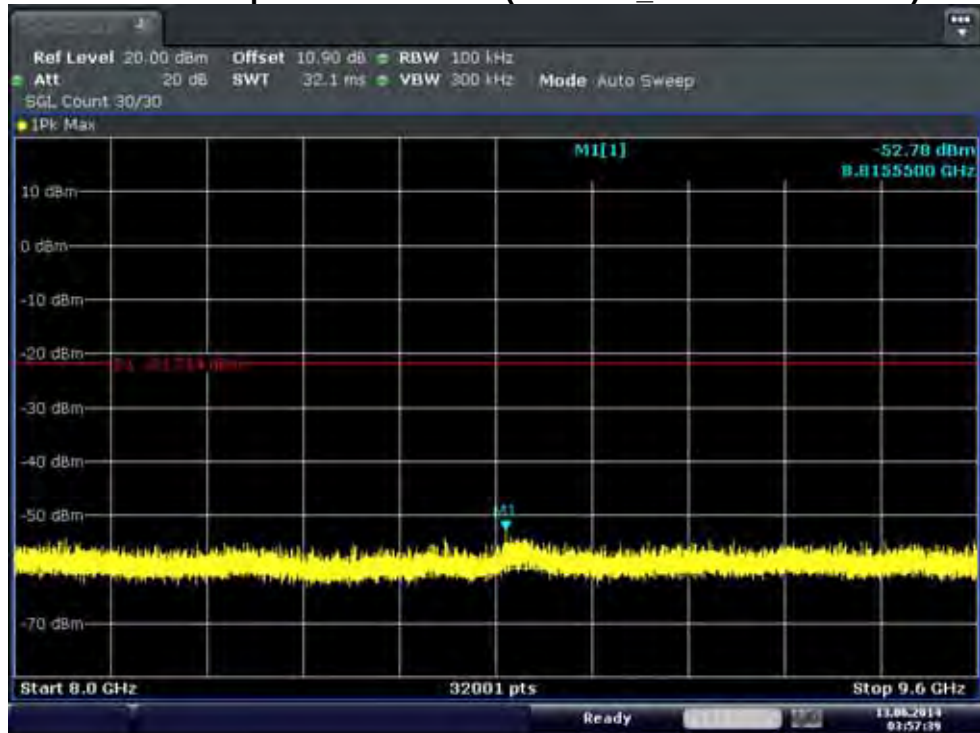
6.4 GHz ~ 8 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



8 GHz ~ 9.6 GHz

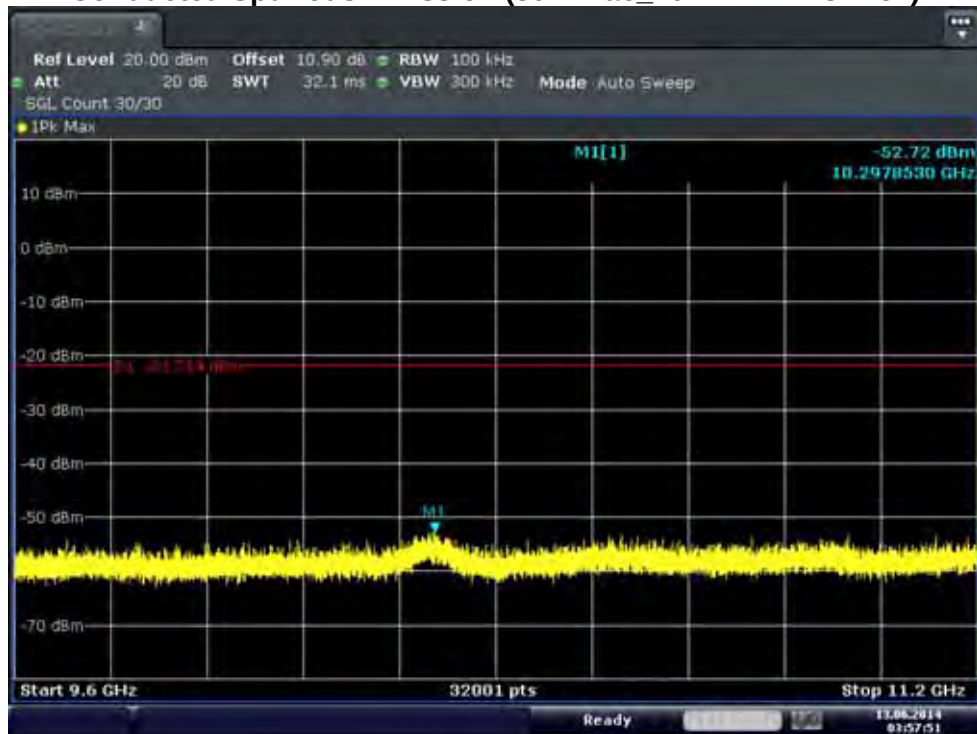
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

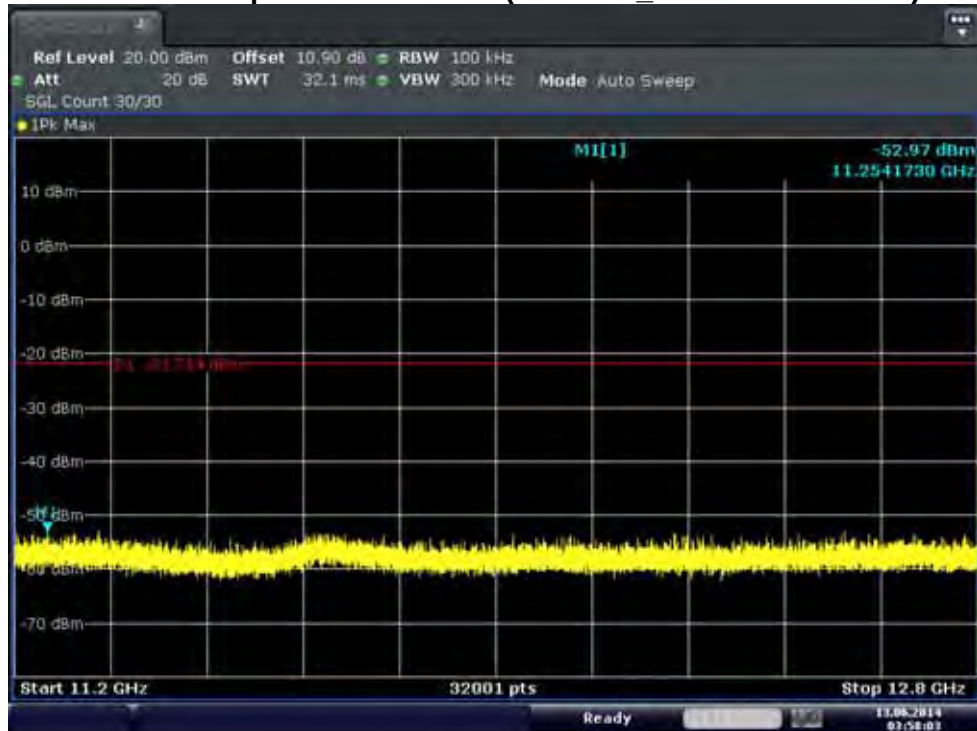
9.6 GHz ~ 11.2 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



11.2 GHz ~ 12.8 GHz

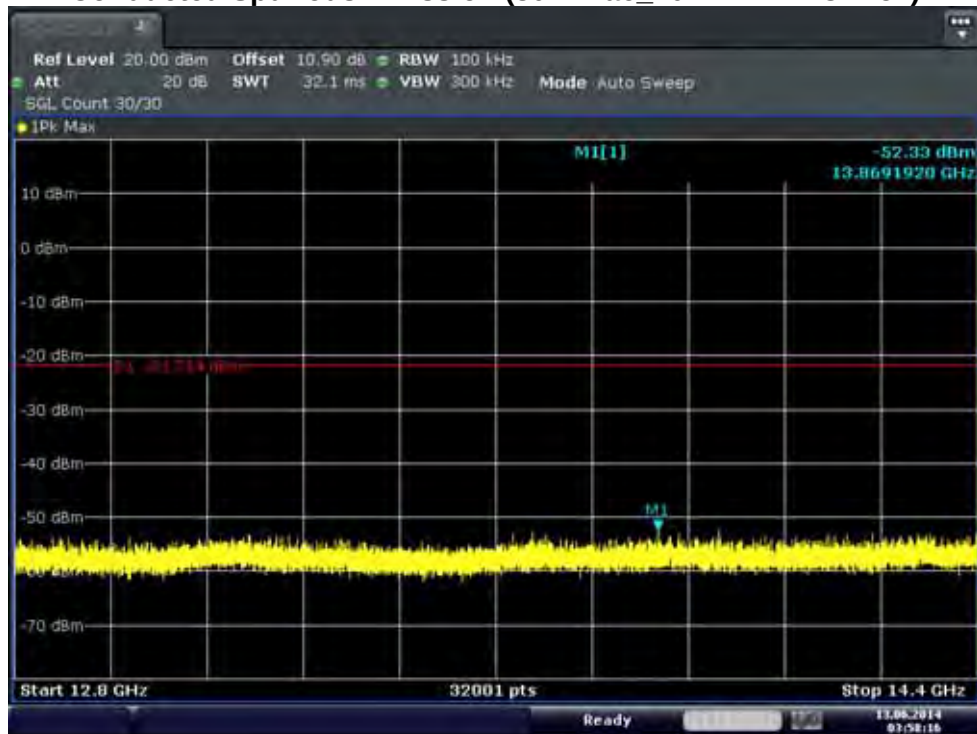
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

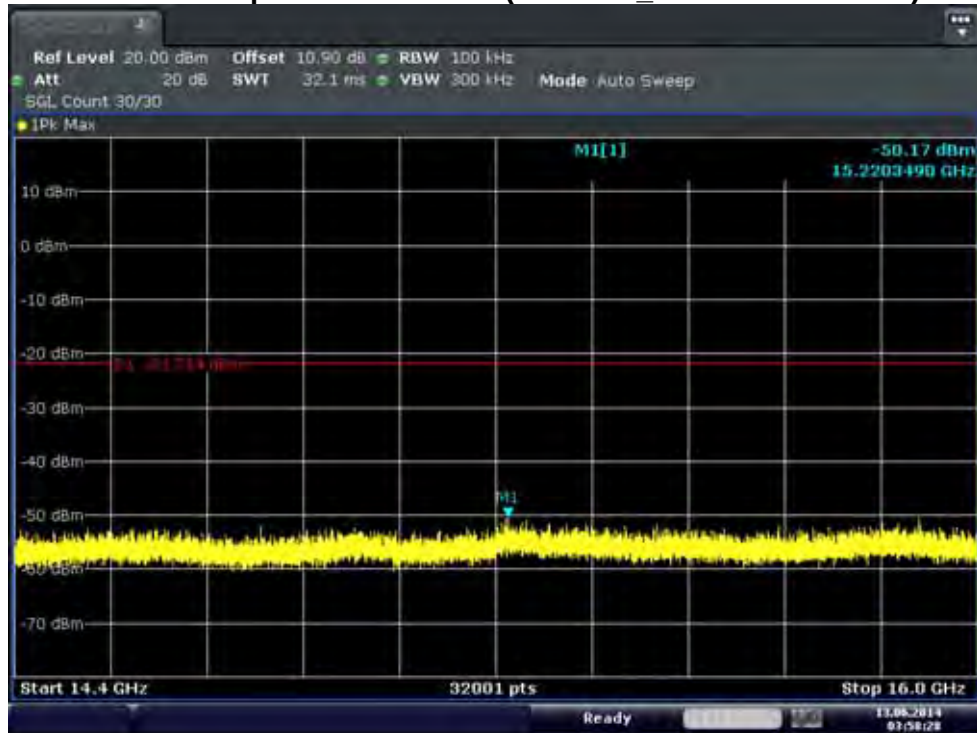
12.8 GHz ~ 12.8 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



14.4 GHz ~ 16 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

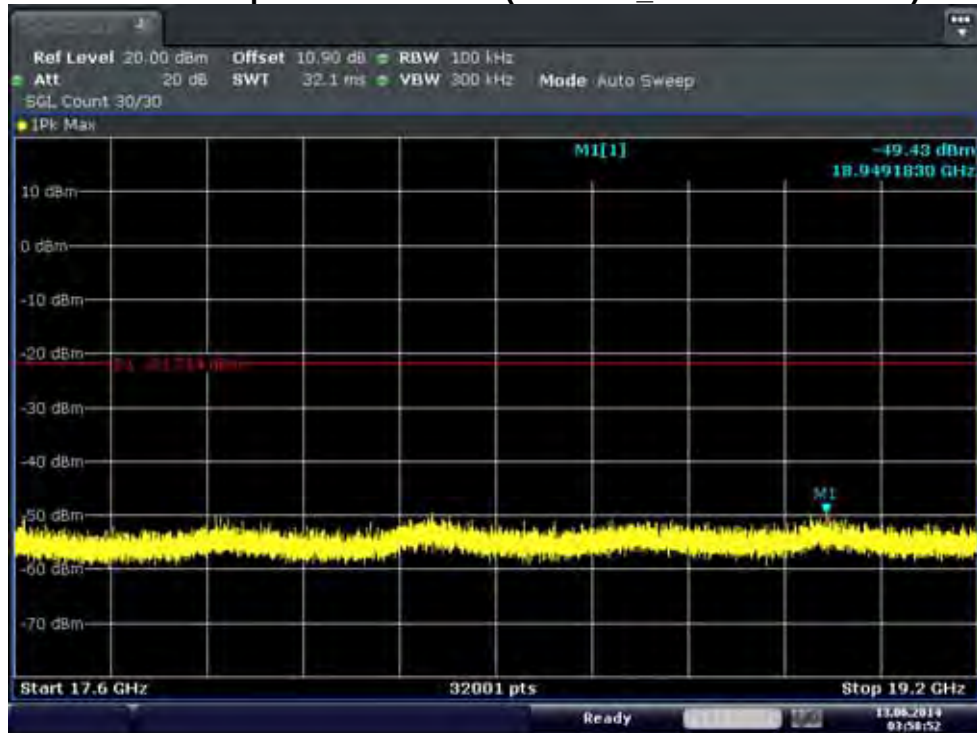
16 GHz ~ 17.6 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



17.6 GHz ~ 19.2 GHz

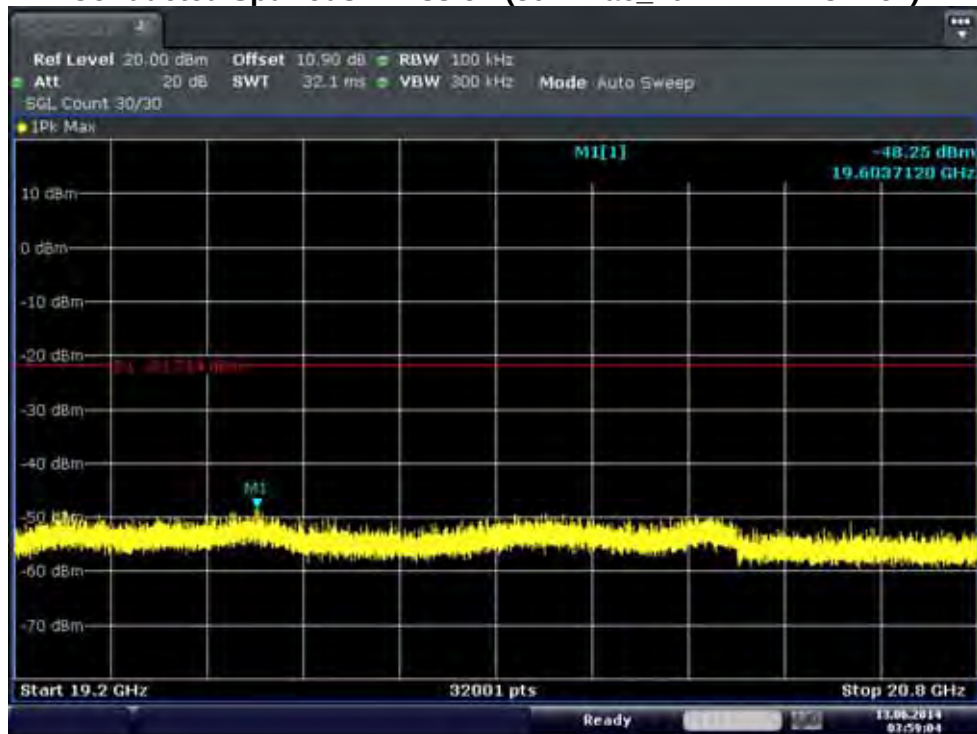
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

19.2 GHz ~ 20.8 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



20.8 GHz ~ 22.4 GHz

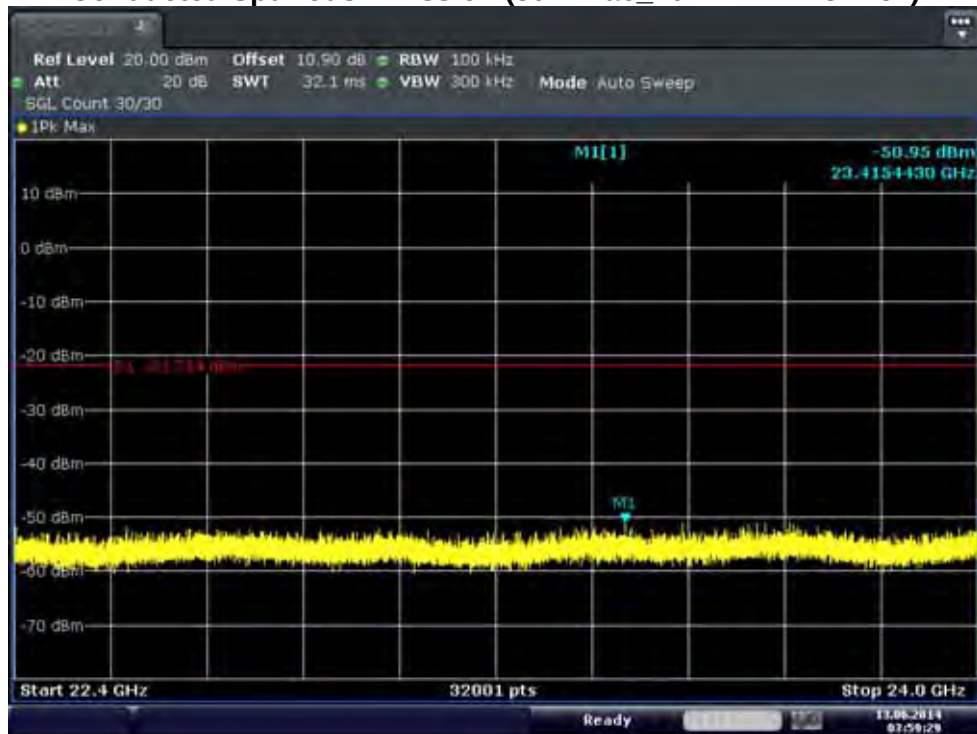
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

22.4 GHz ~ 24 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



24 GHz ~ 25.6 GHz

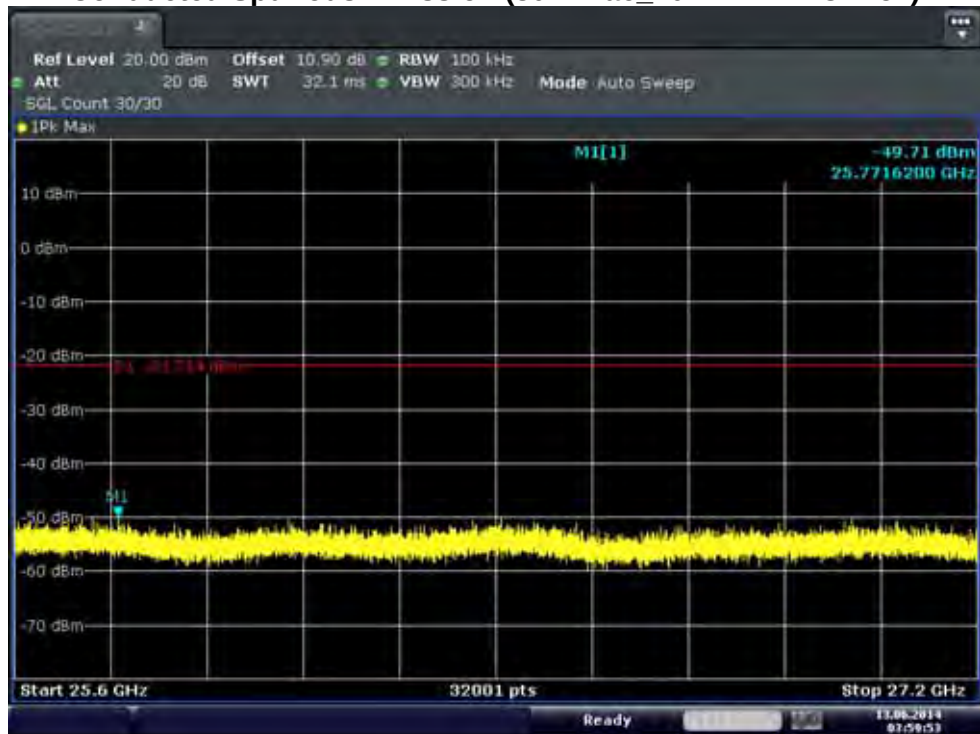
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

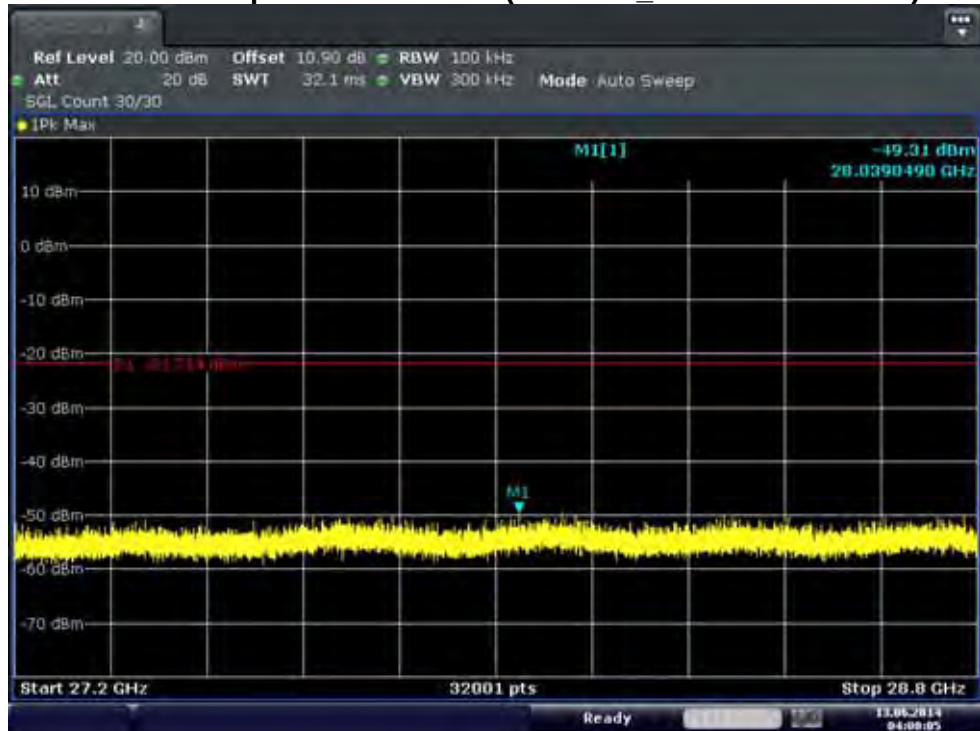
25.6 GHz ~ 27.2 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



27.2 GHz ~ 28.8 GHz

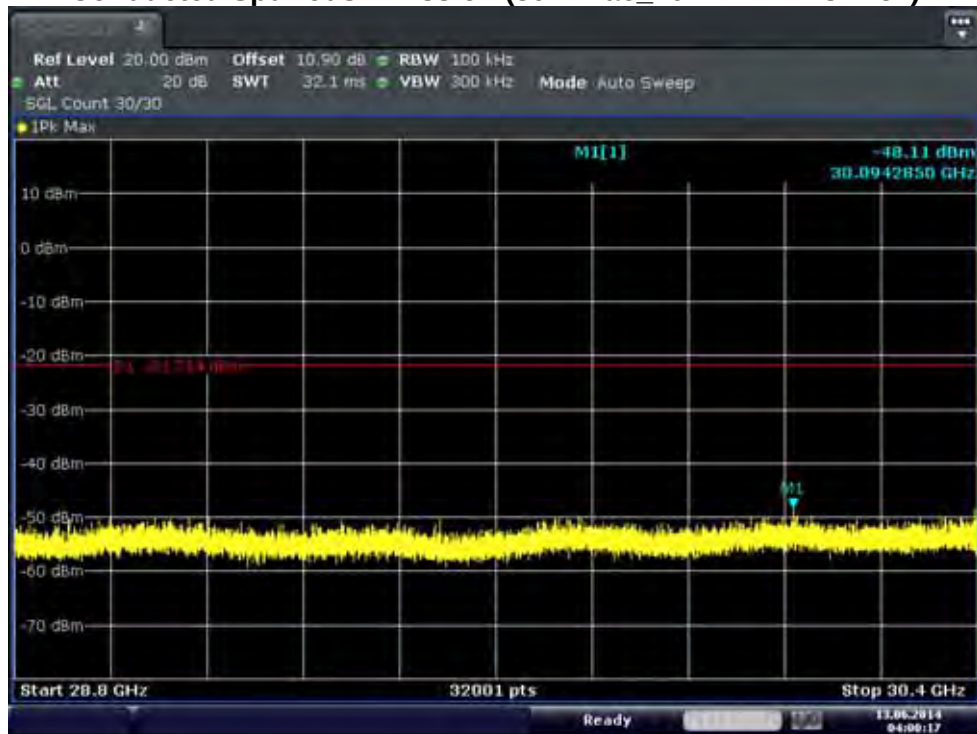
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

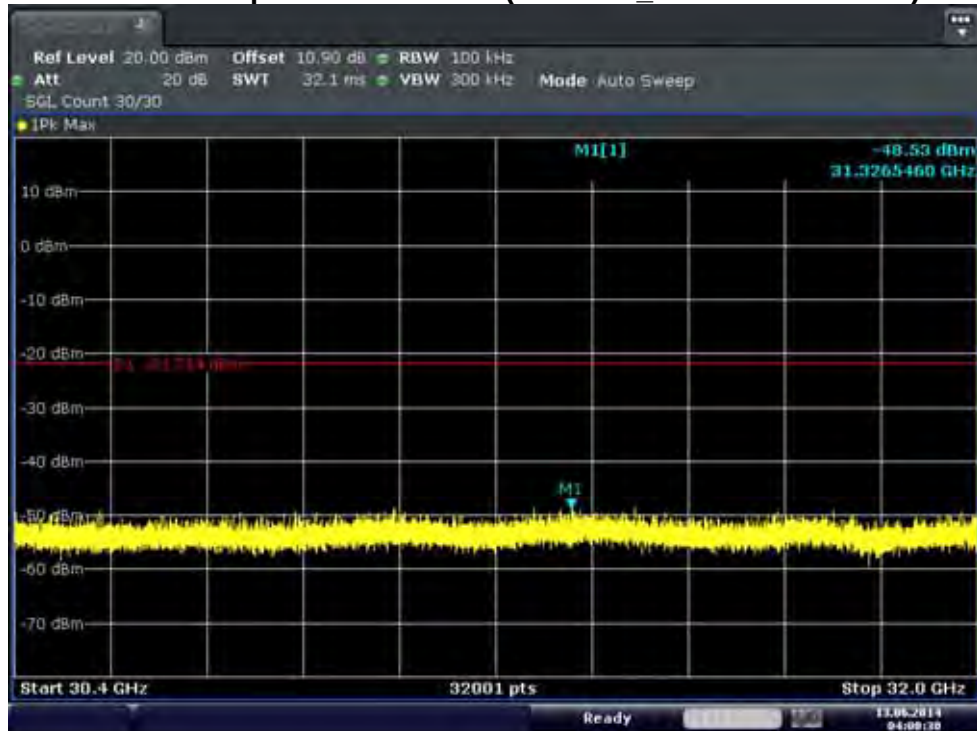
28.8 GHz ~ 30.4 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



30.4 GHz ~ 32 GHz

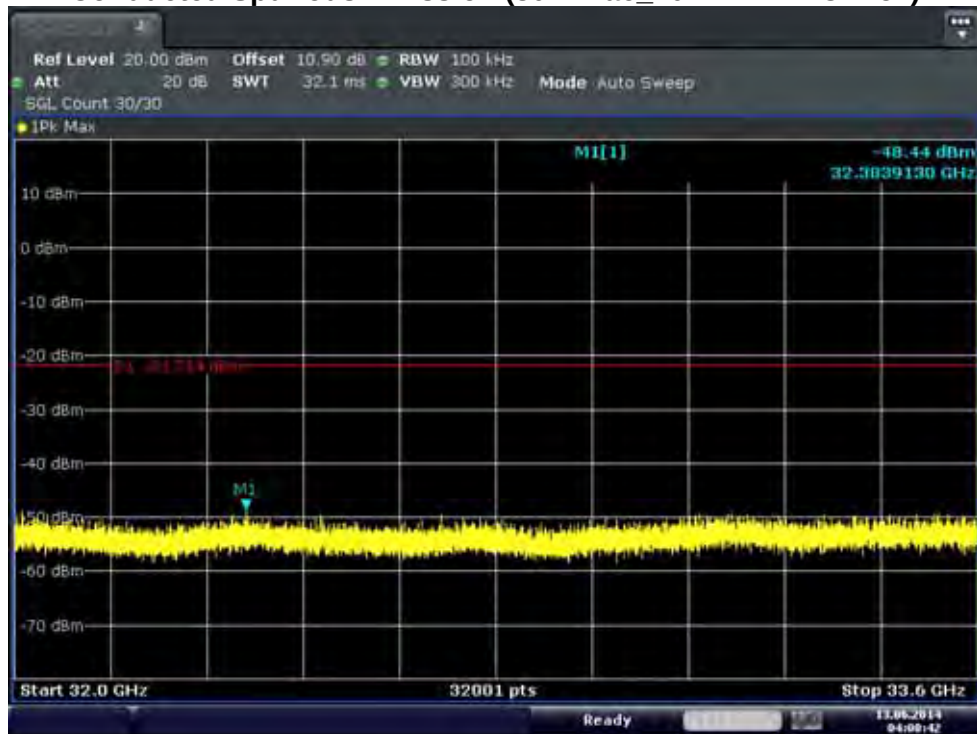
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

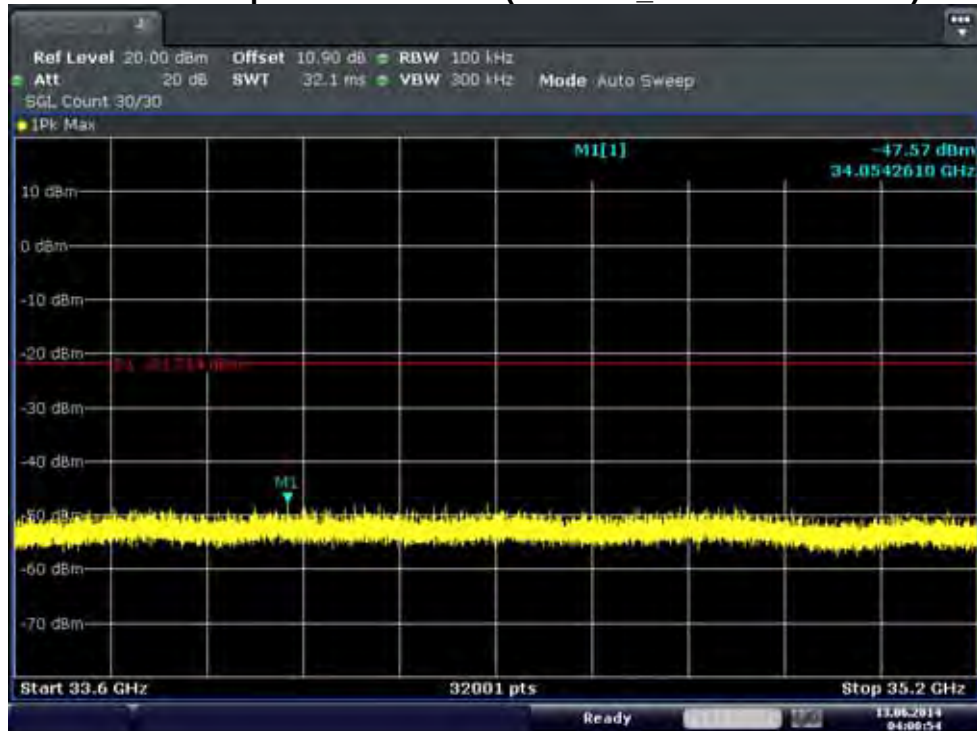
32 GHz ~ 33.6 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



33.6 GHz ~ 35.2 GHz

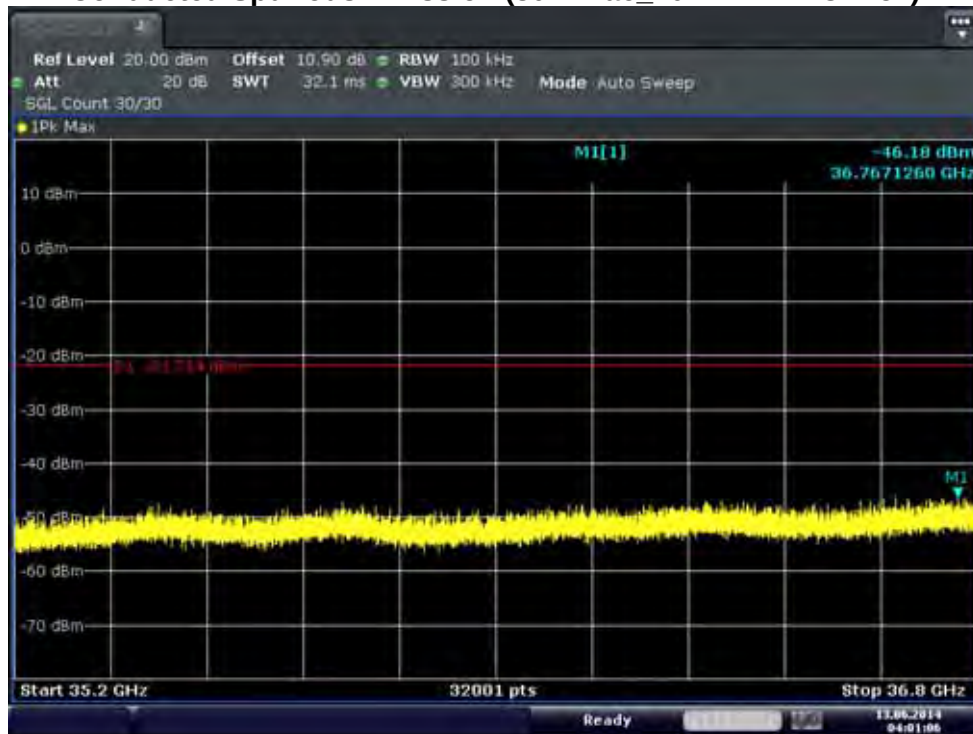
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

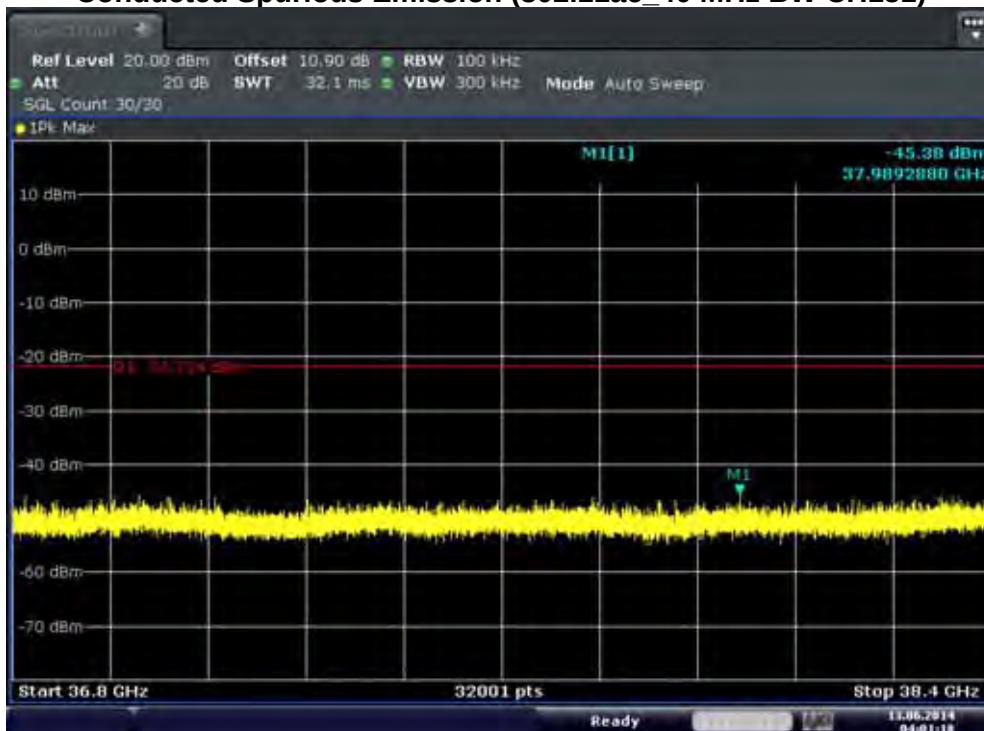
35.2 GHz ~ 36.8 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



36.8 GHz ~ 38.4 GHz

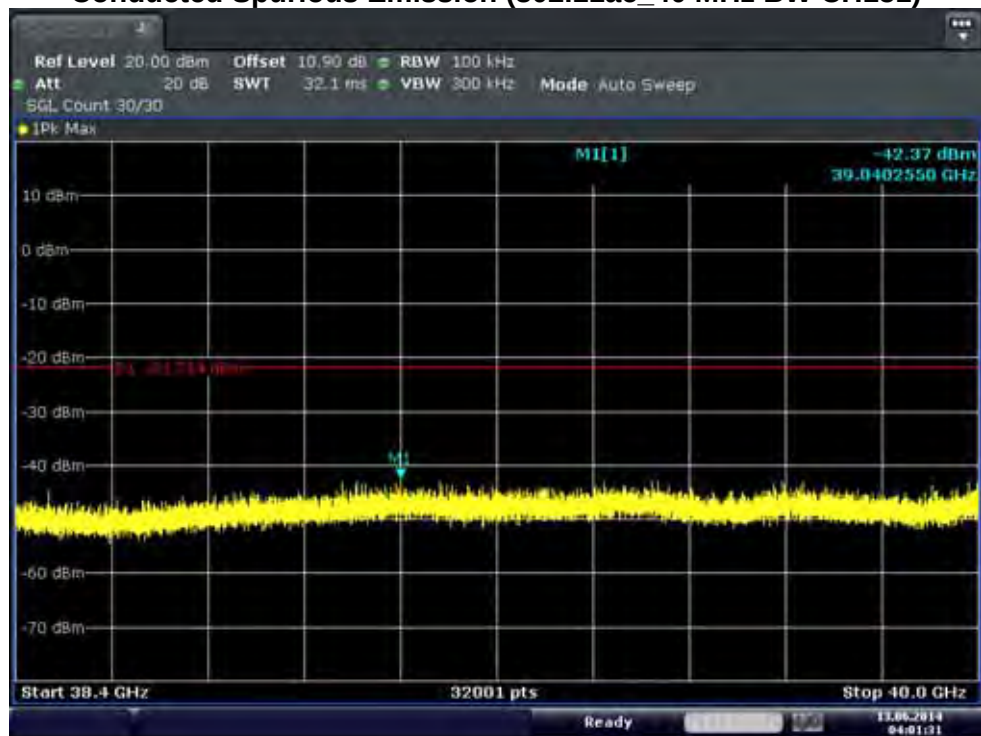
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

38.4 GHz ~ 40 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



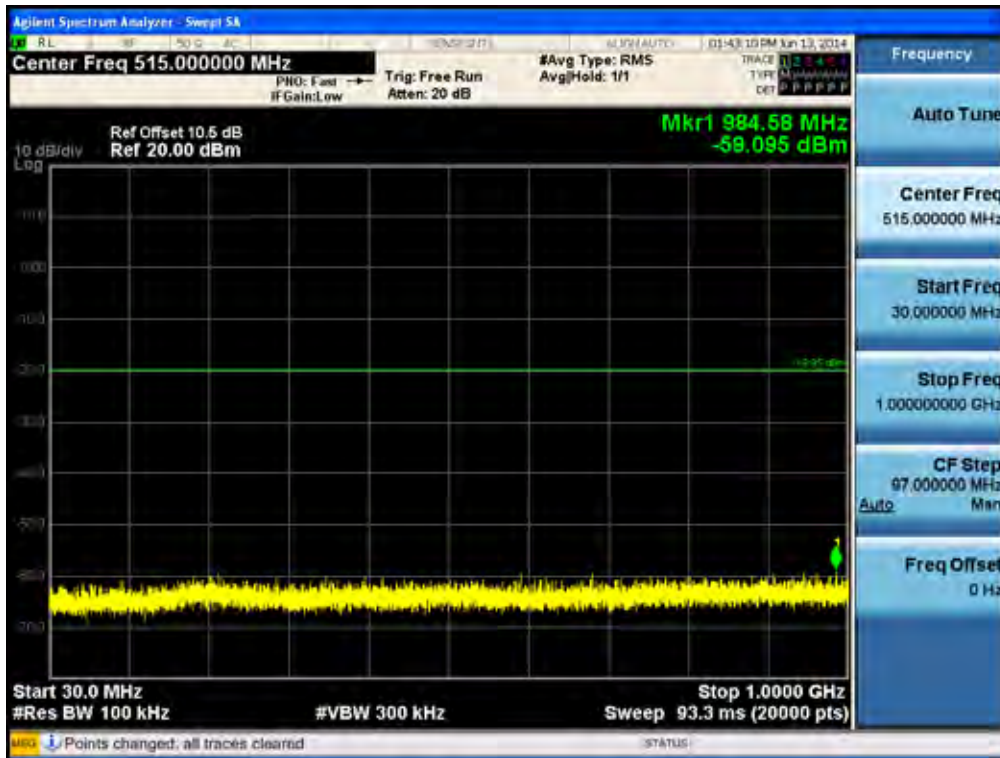
FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

Service Port Ant.1

2.4 GHz Band

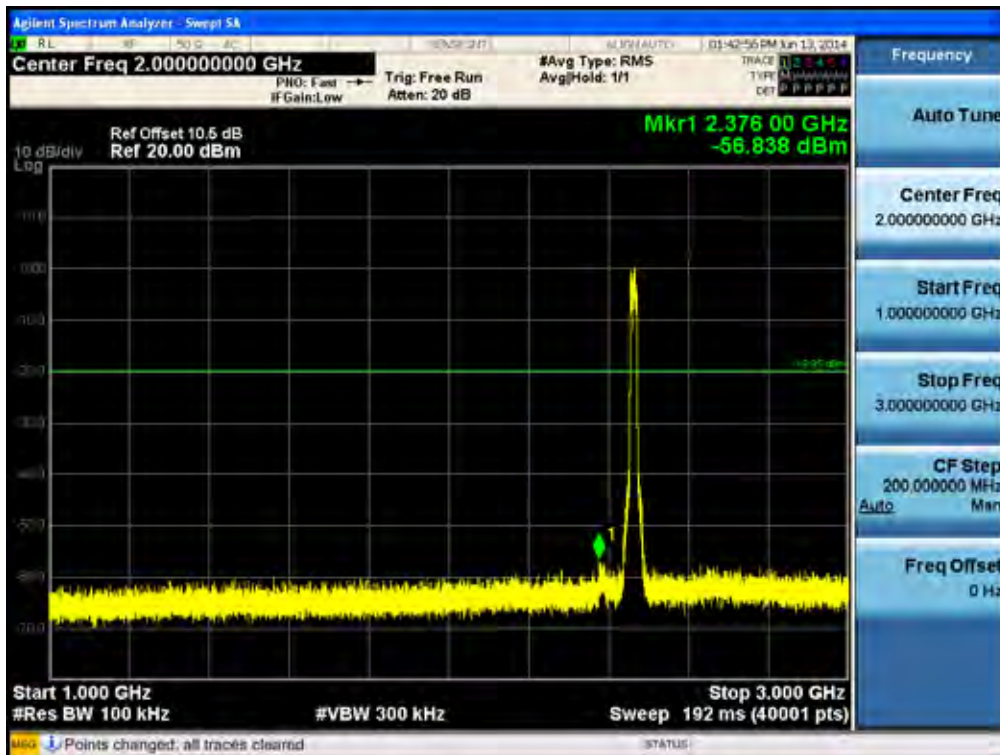
30 MHz ~ 1 GHz

Conducted Spurious Emission (802.11n-CH11)



1 GHz ~ 3 GHz

Conducted Spurious Emission (802.11n-CH11)

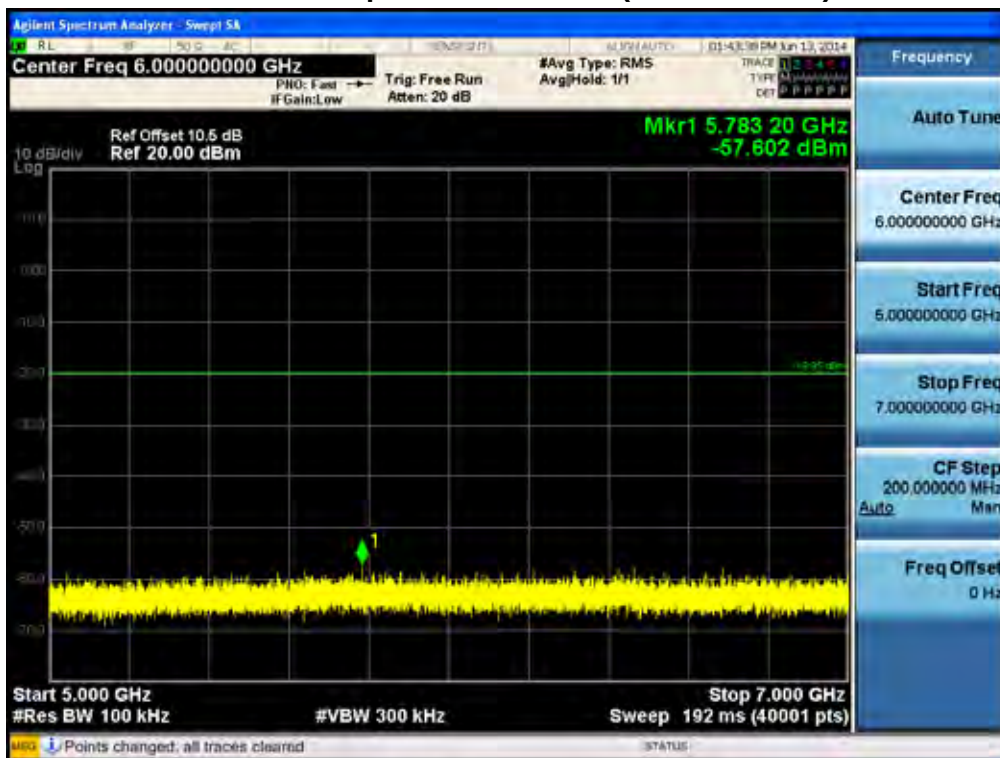


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

Conducted Spurious Emission (802.11n-CH11)



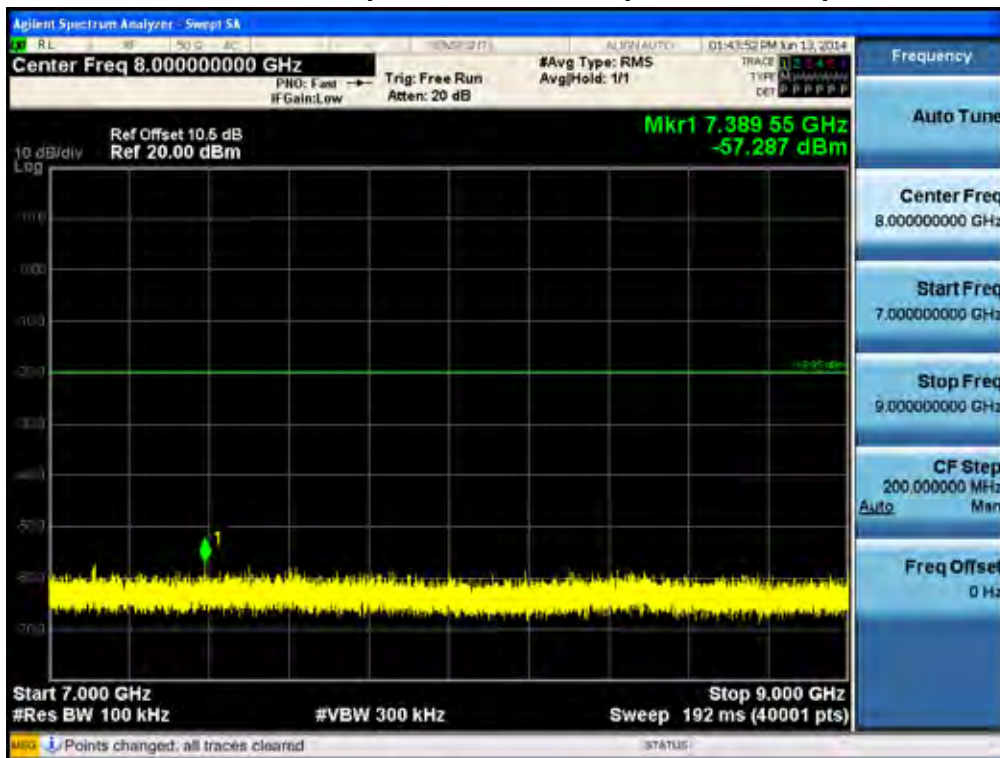
Conducted Spurious Emission (802.11n-CH11)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

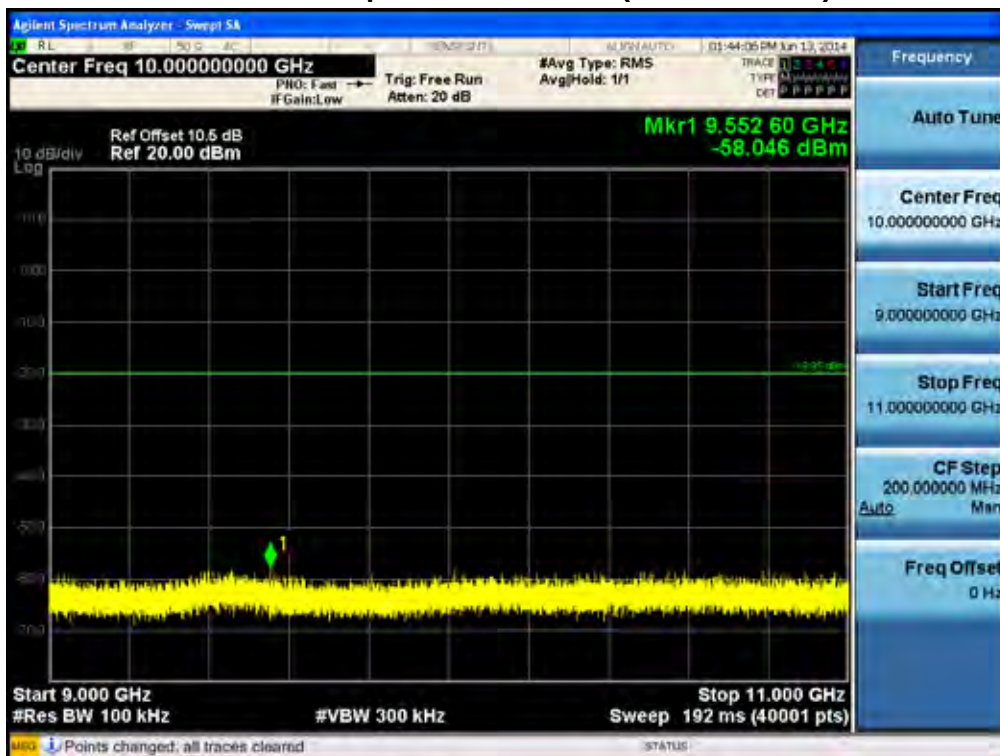
7 GHz ~ 9 GHz

Conducted Spurious Emission (802.11n-CH11)



9 GHz ~ 11 GHz

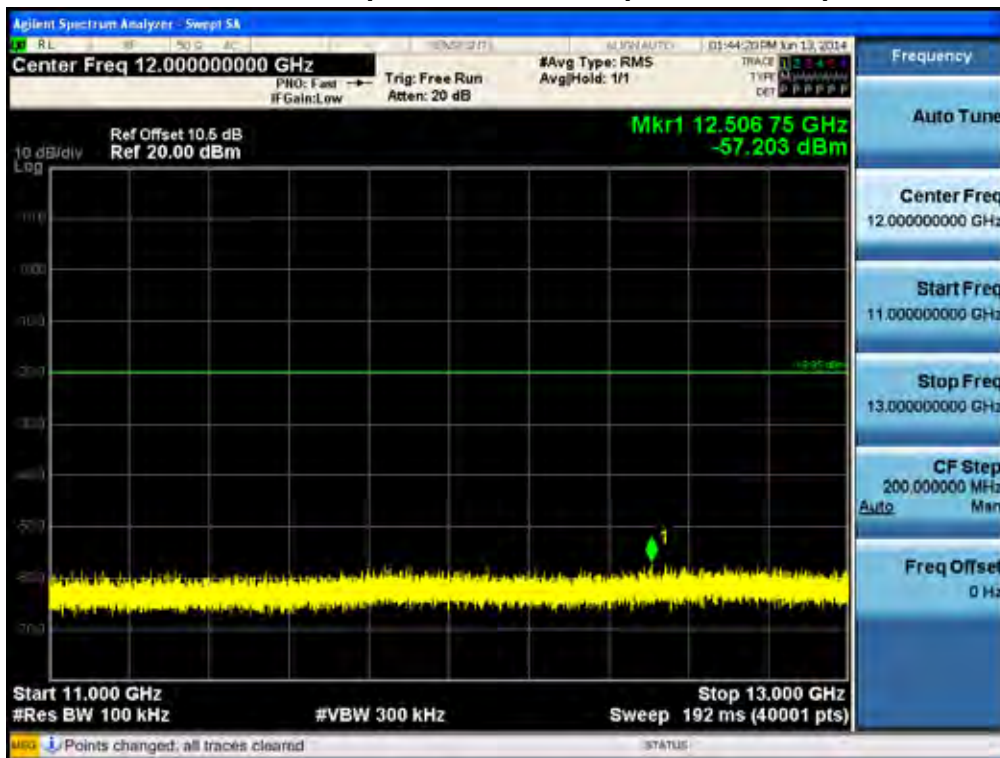
Conducted Spurious Emission (802.11n-CH11)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

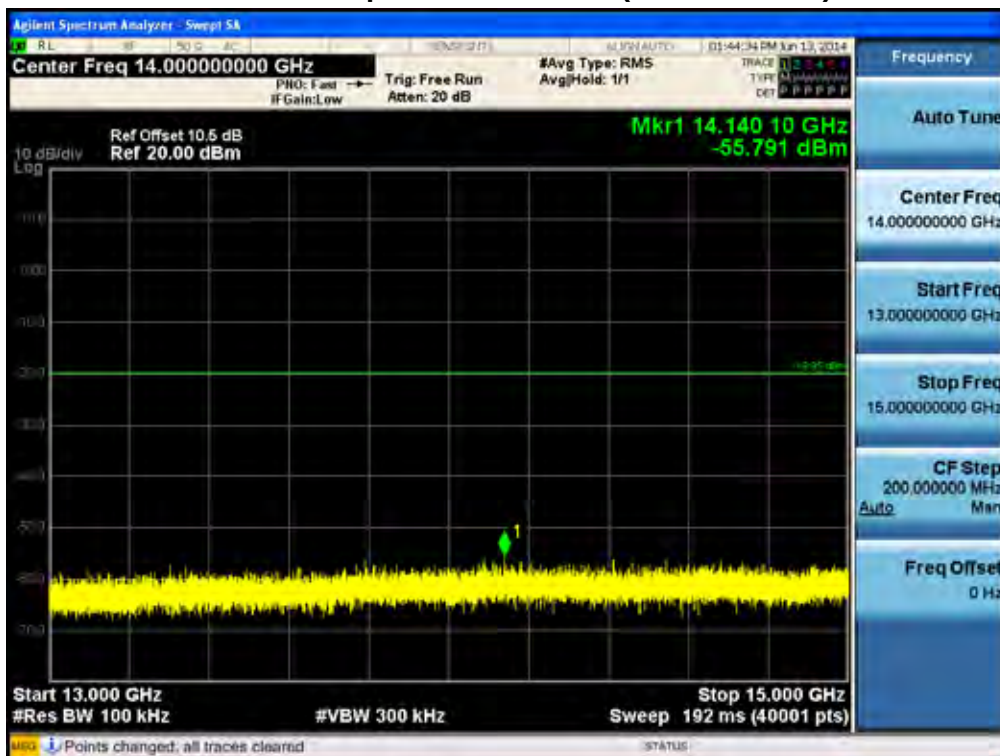
11 GHz ~ 13 GHz

Conducted Spurious Emission (802.11n-CH11)



13 GHz ~ 15 GHz

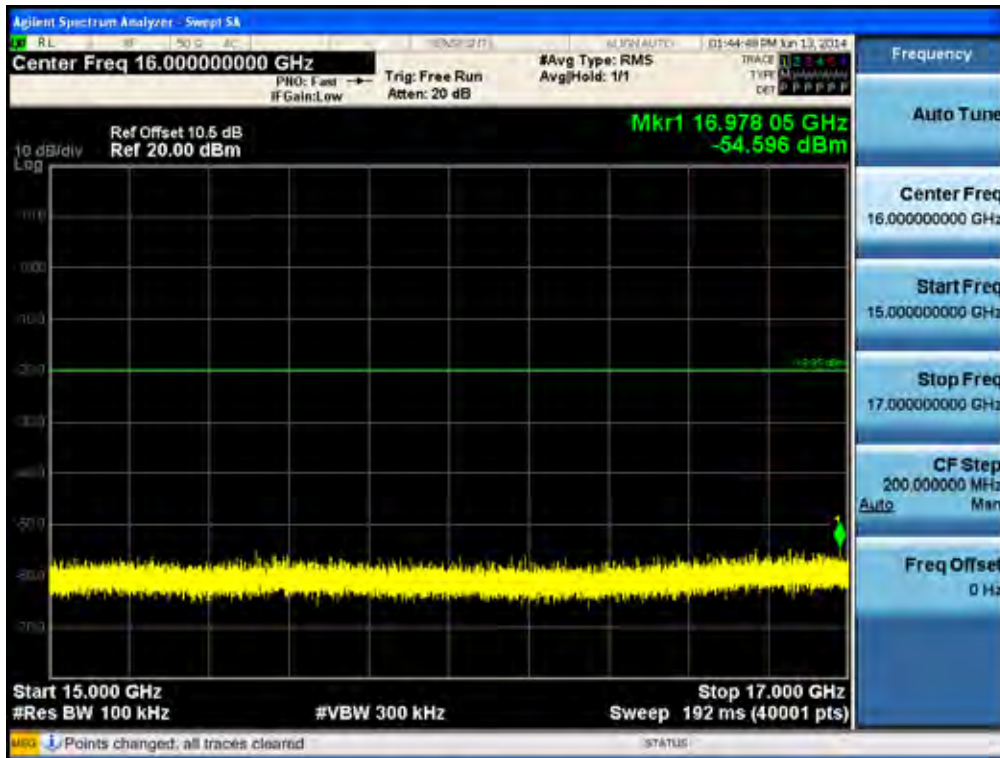
Conducted Spurious Emission (802.11n-CH11)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

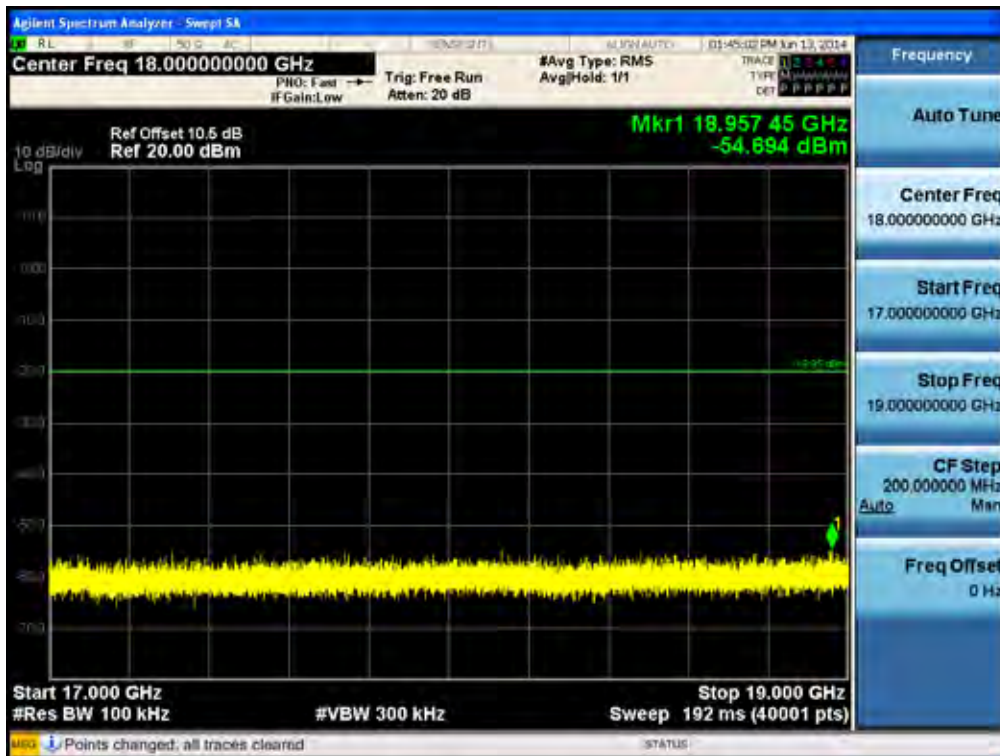
15 GHz ~ 17 GHz

Conducted Spurious Emission (802.11n-CH11)



17 GHz ~ 19 GHz

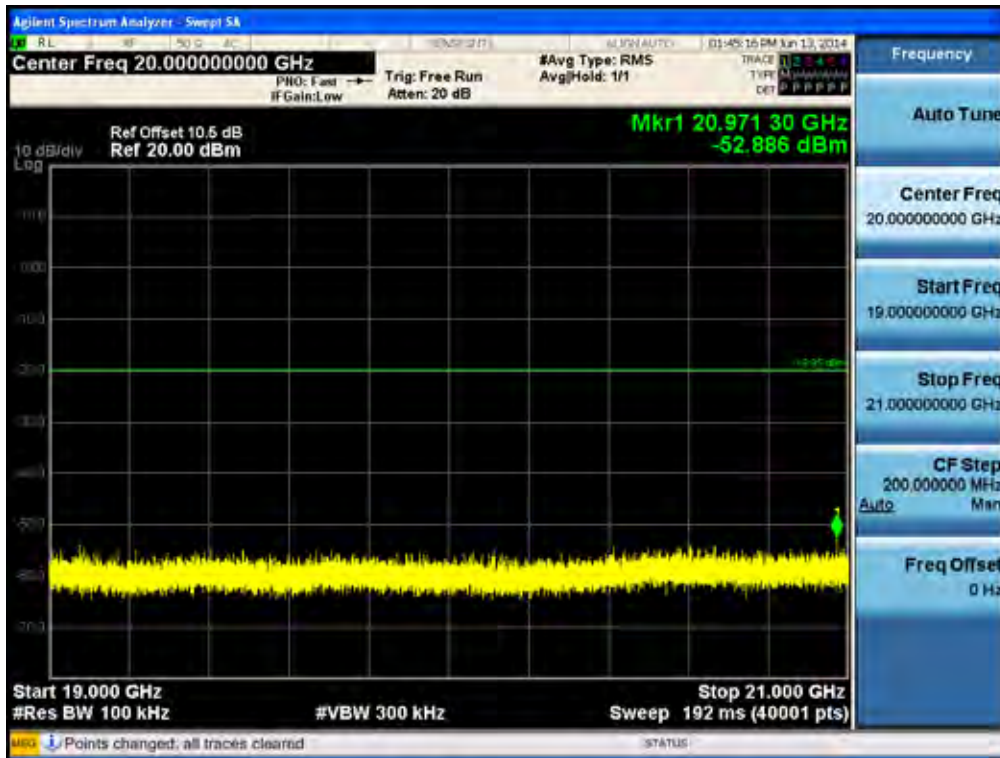
Conducted Spurious Emission (802.11n-CH11)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

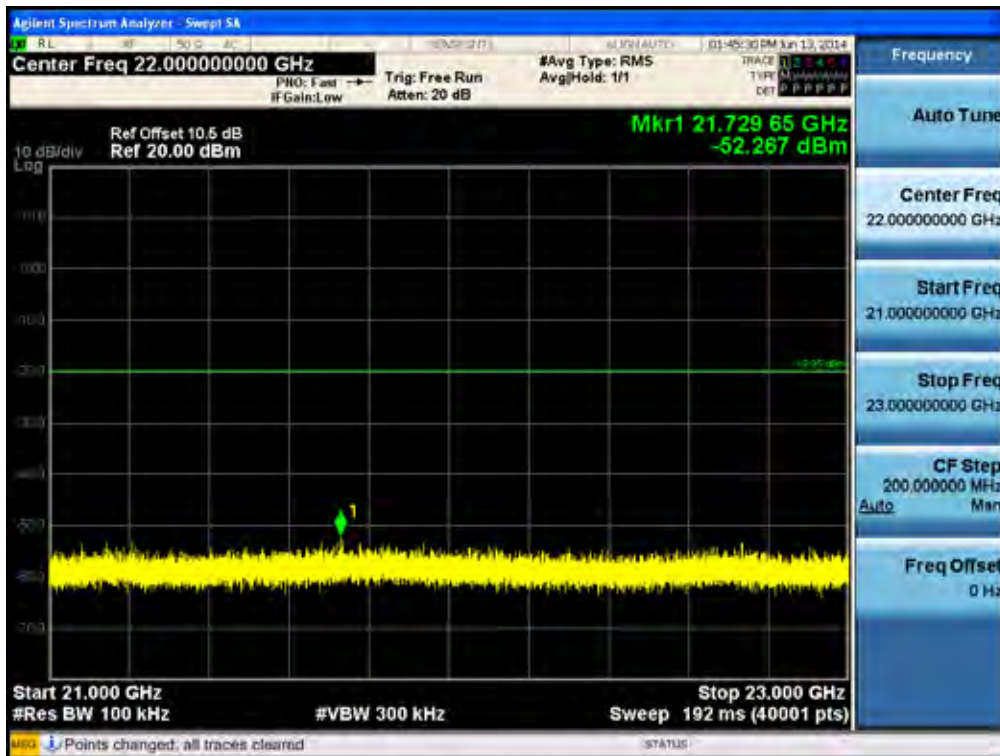
19 GHz ~ 21 GHz

Inducted Spurious Emission (802.11n-CH11)



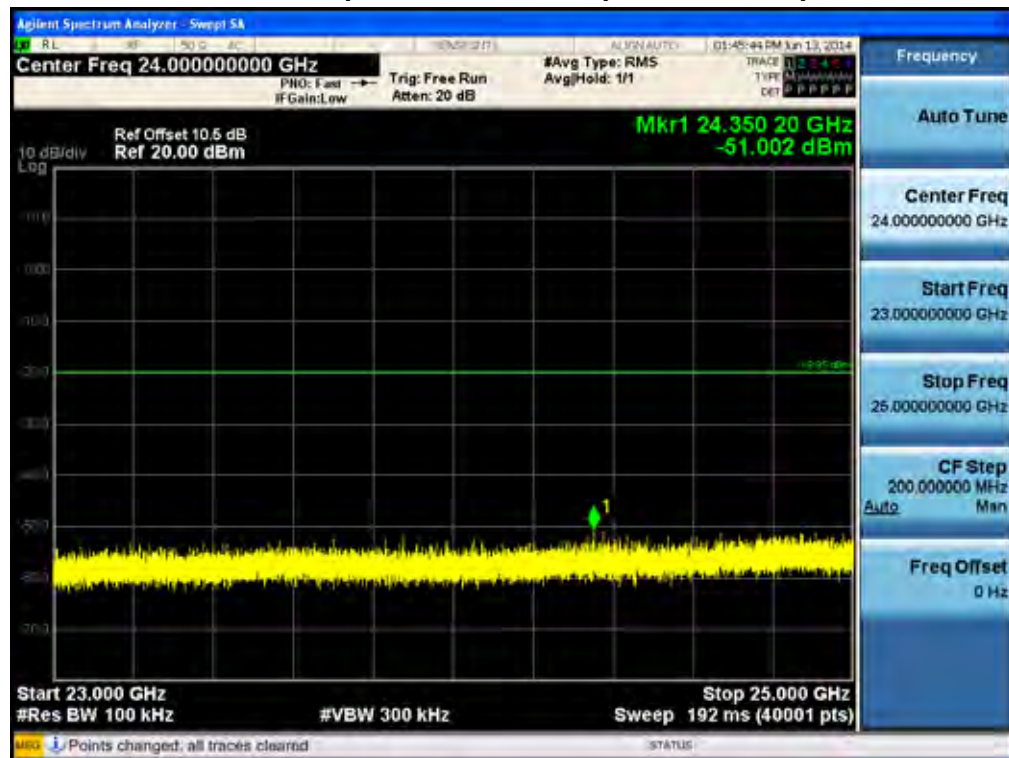
21 GHz ~ 23 GHz

Conducted Spurious Emission (802.11n-CH11)



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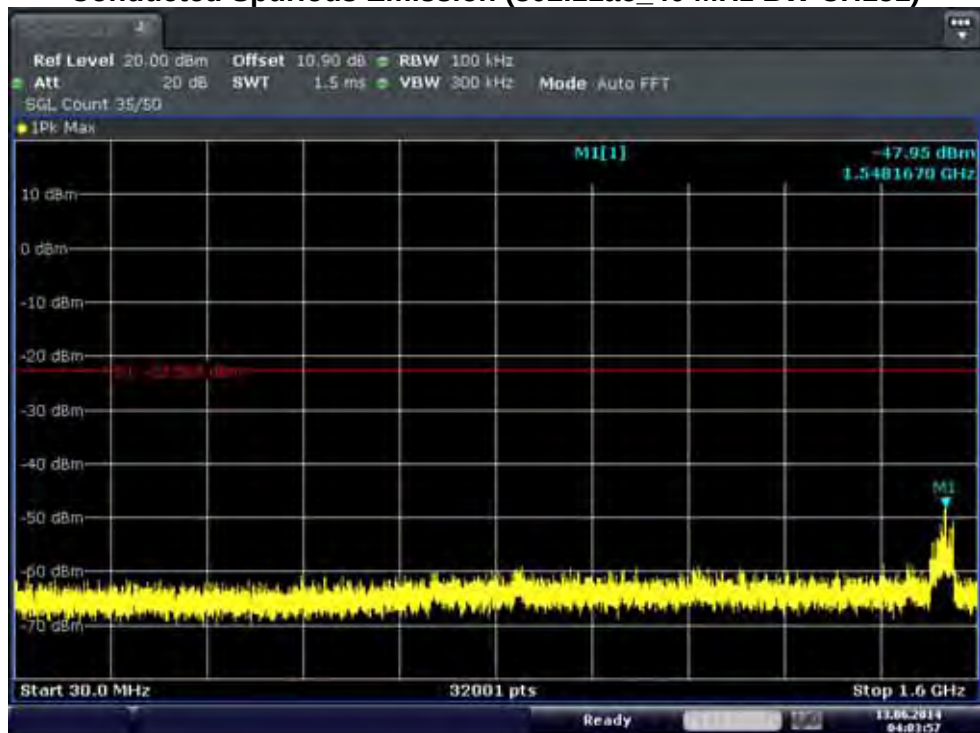
Conducted Spurious Emission (802.11n-CH11)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
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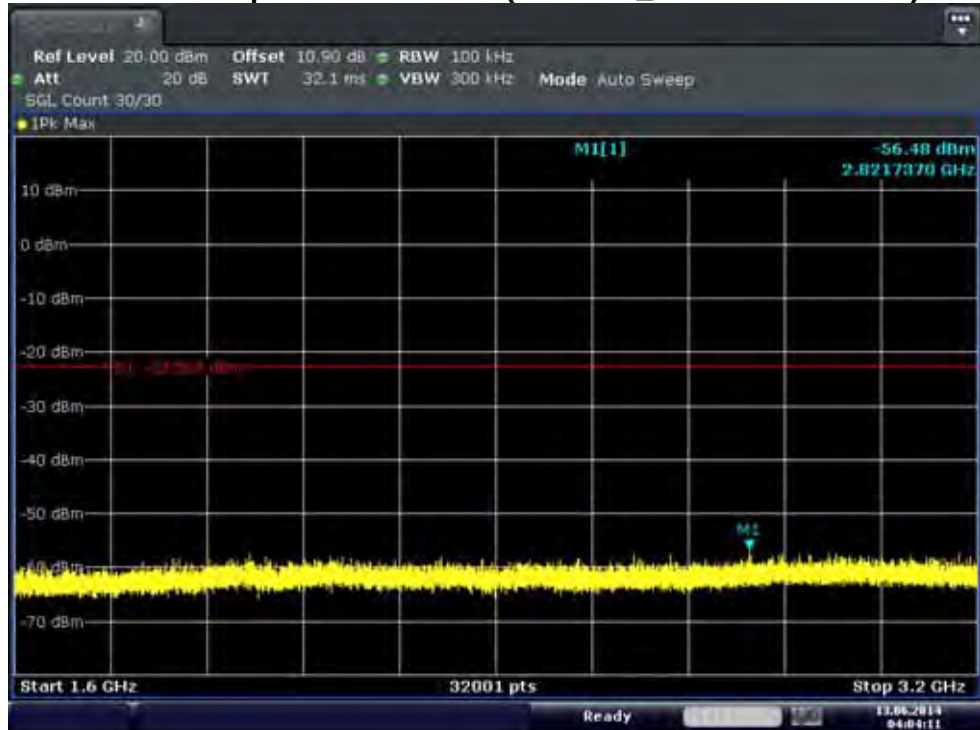
5.8 GHz Band 30 MHz ~ 1.6 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



1.6 GHz ~ 3.2 GHz

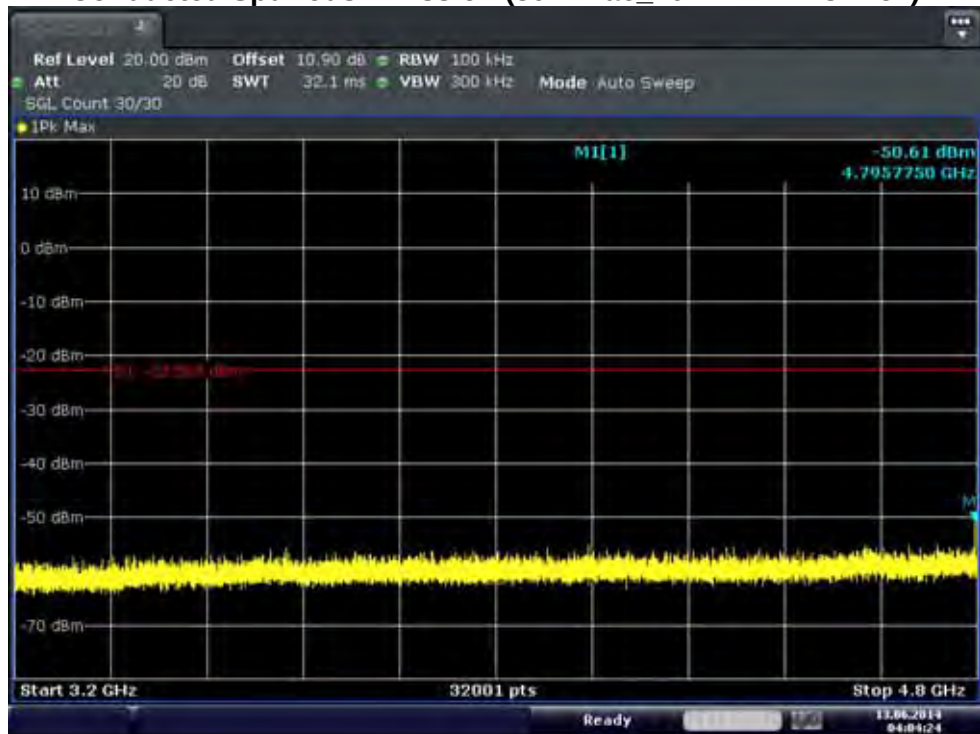
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

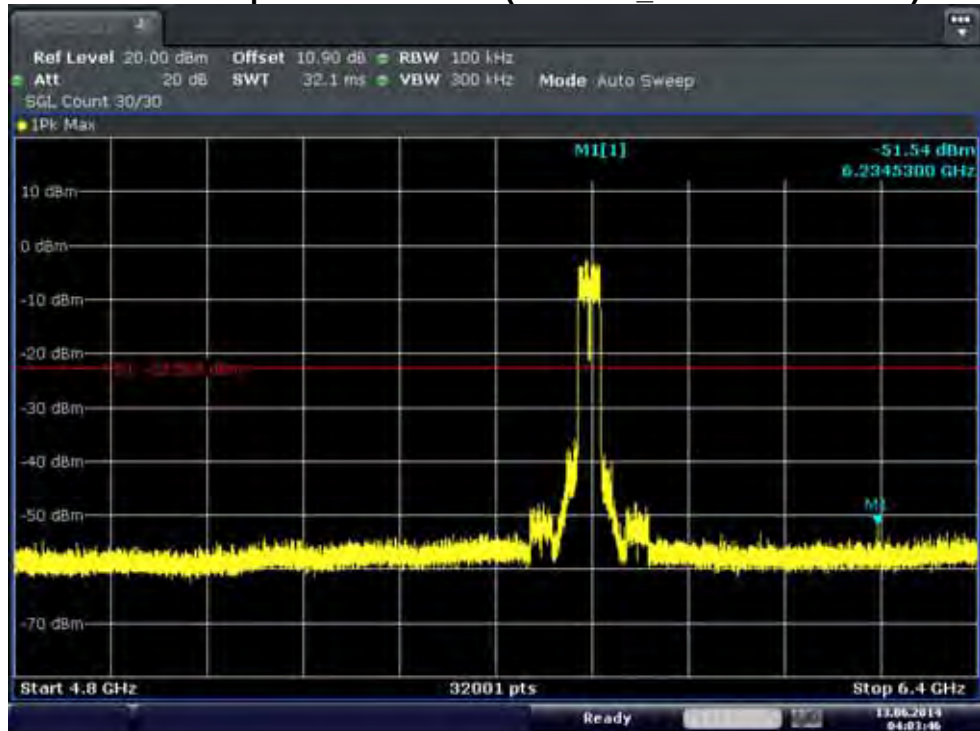
3.2 GHz ~ 4.8 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



4.8 GHz ~ 6.4 GHz

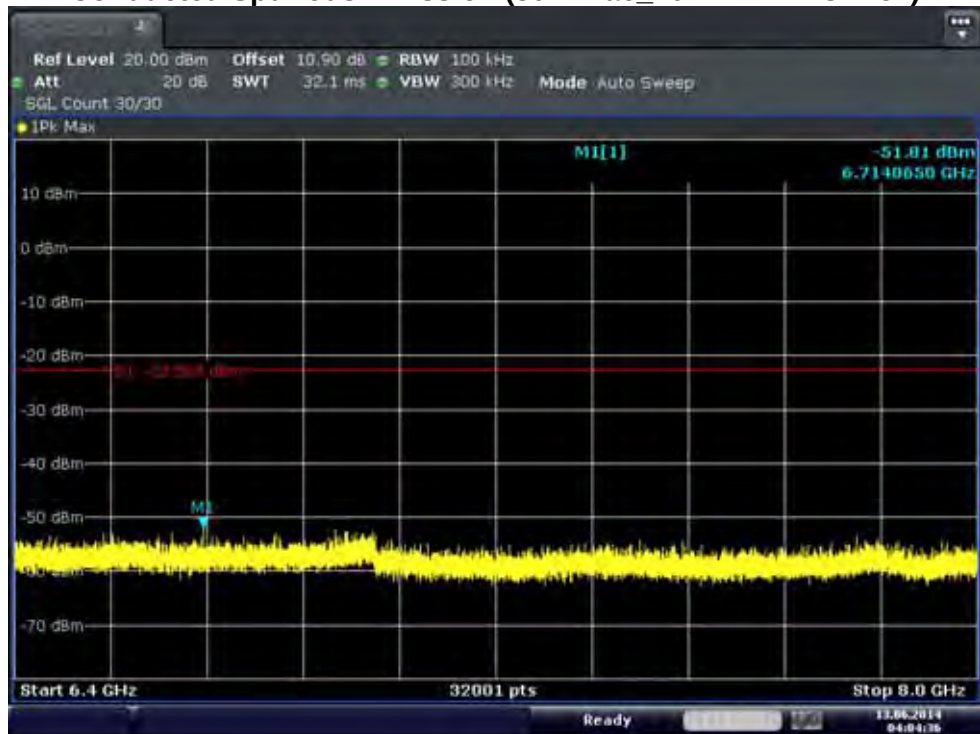
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
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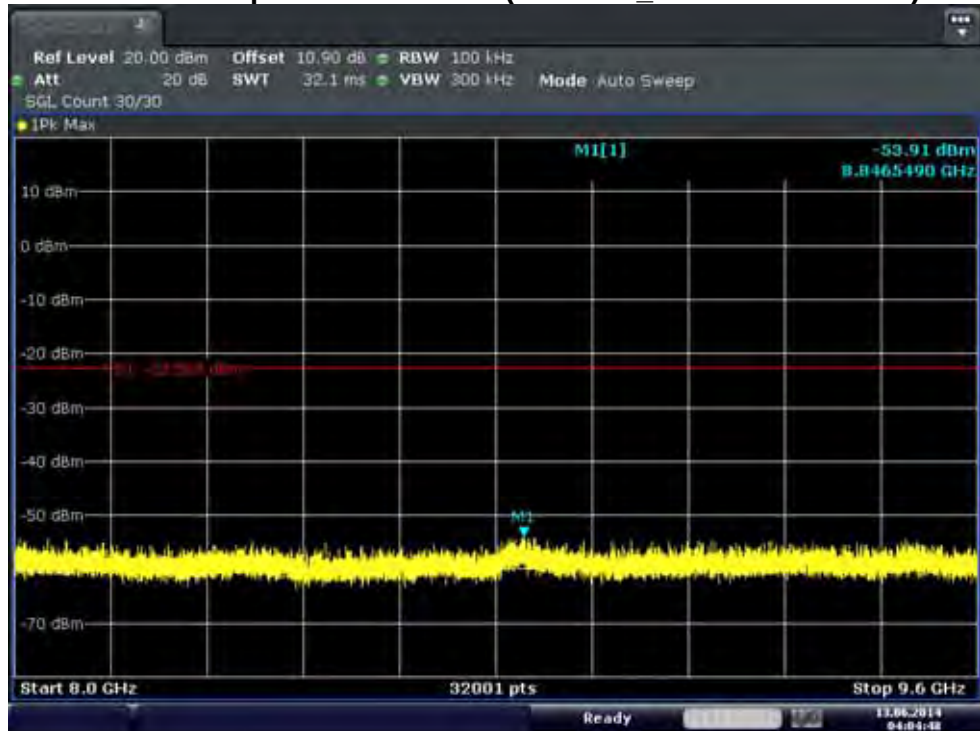
6.4 GHz ~ 8 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



8 GHz ~ 9.6 GHz

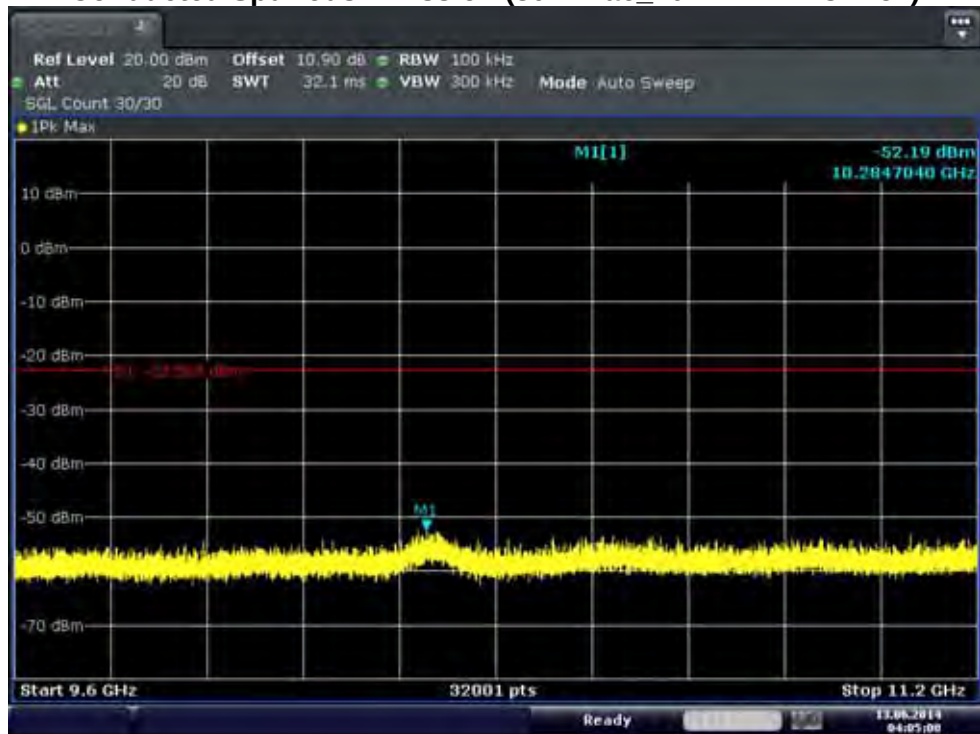
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
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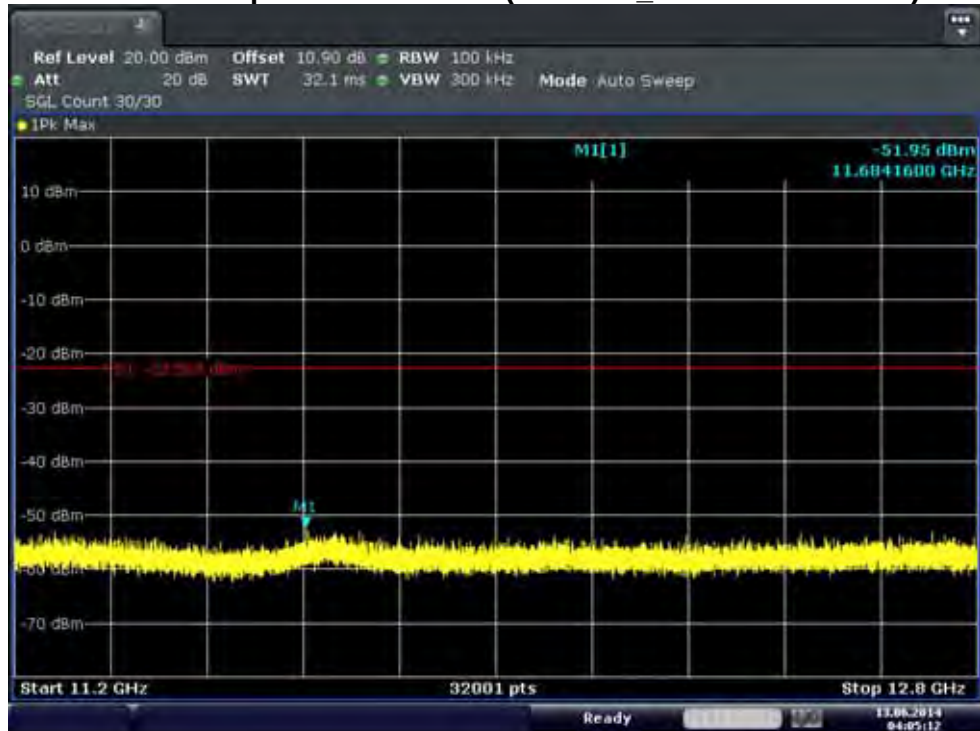
9.6 GHz ~ 11.2 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



11.2 GHz ~ 12.8 GHz

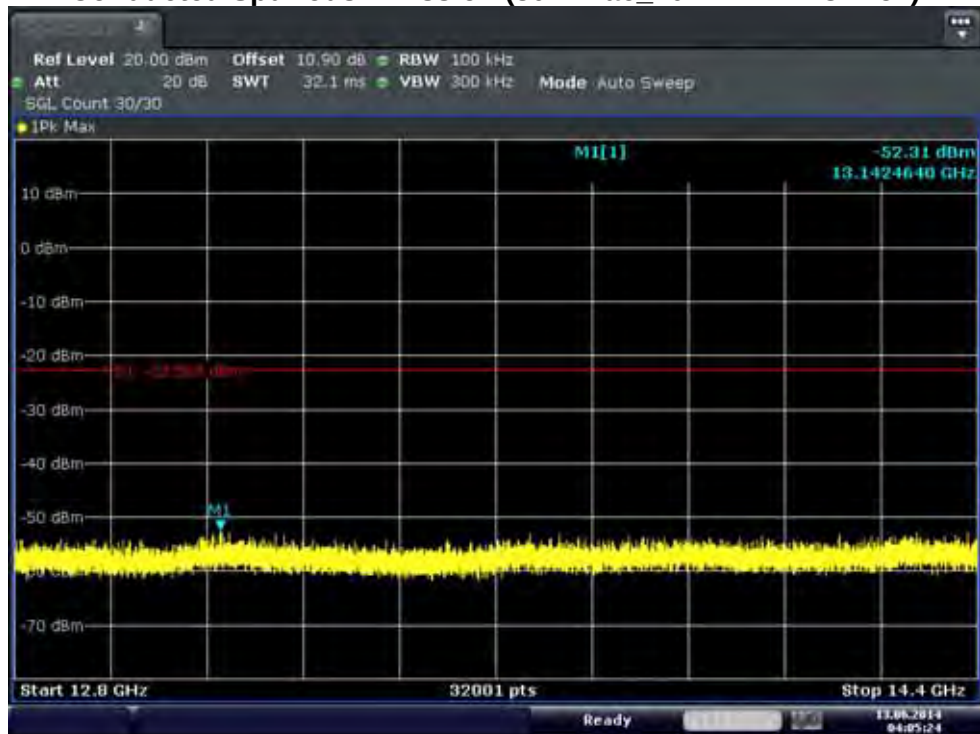
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

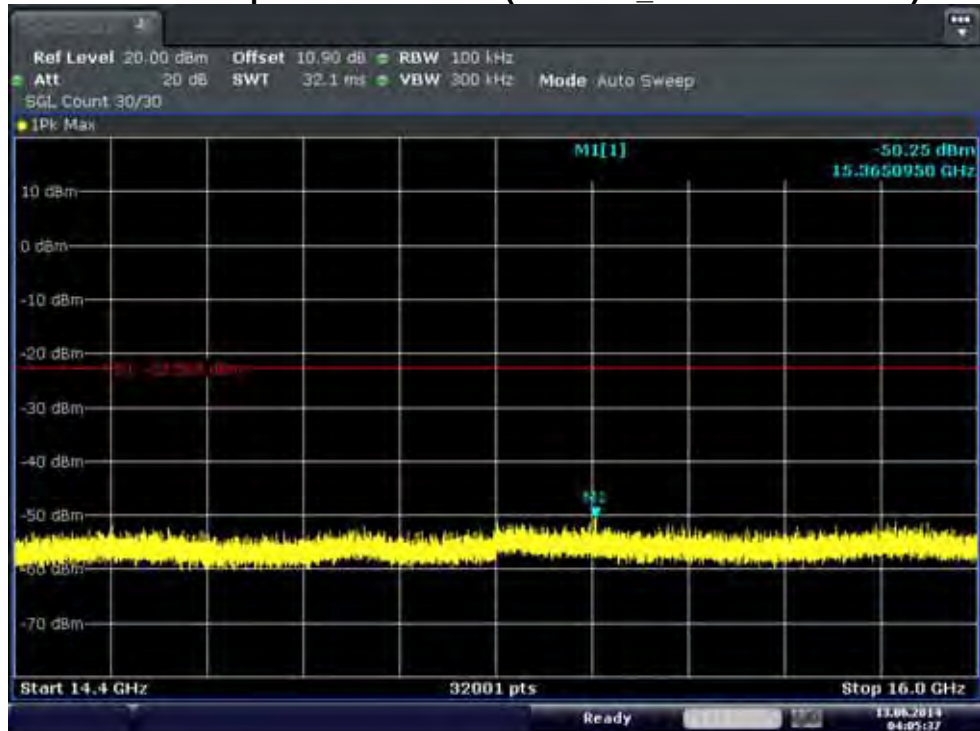
12.8 GHz ~ 12.8 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



14.4 GHz ~ 16 GHz

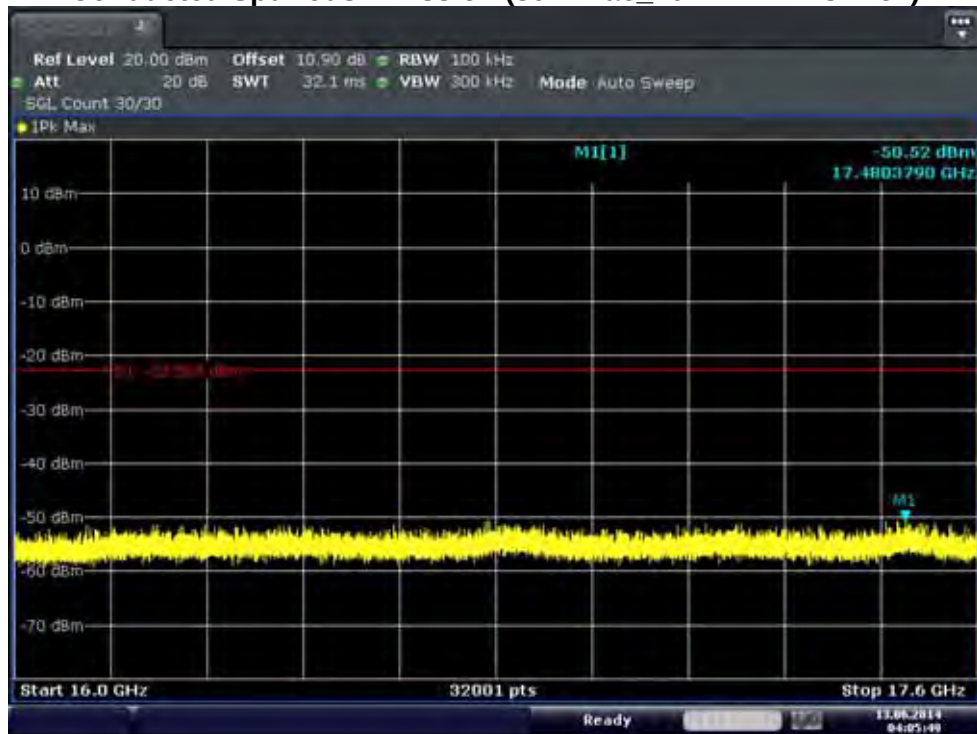
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

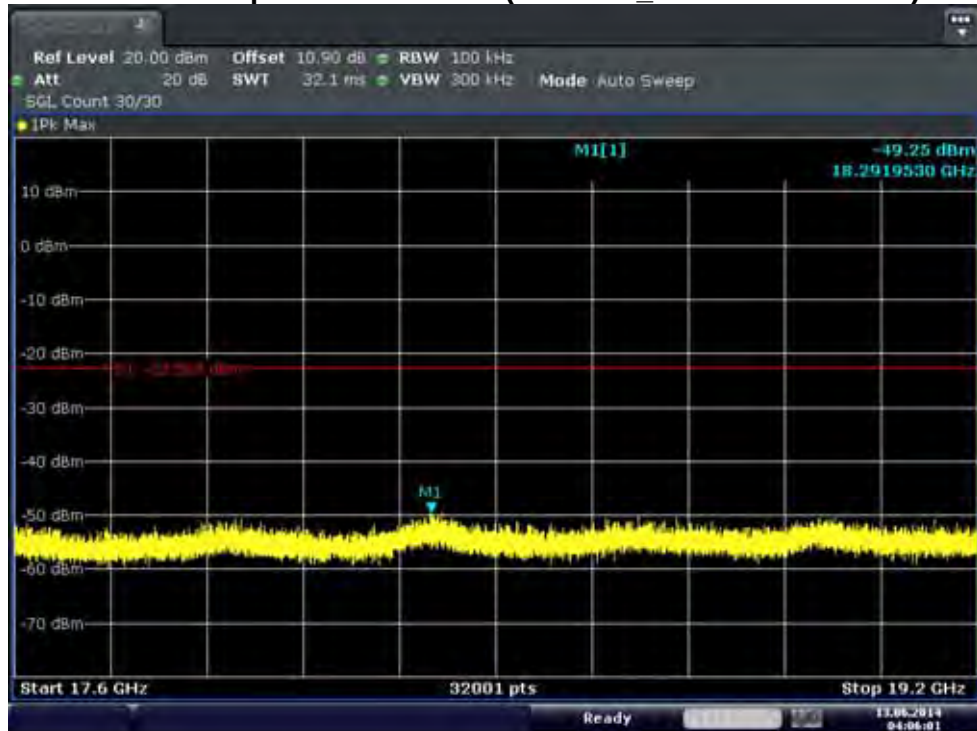
16 GHz ~ 17.6 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



17.6 GHz ~ 19.2 GHz

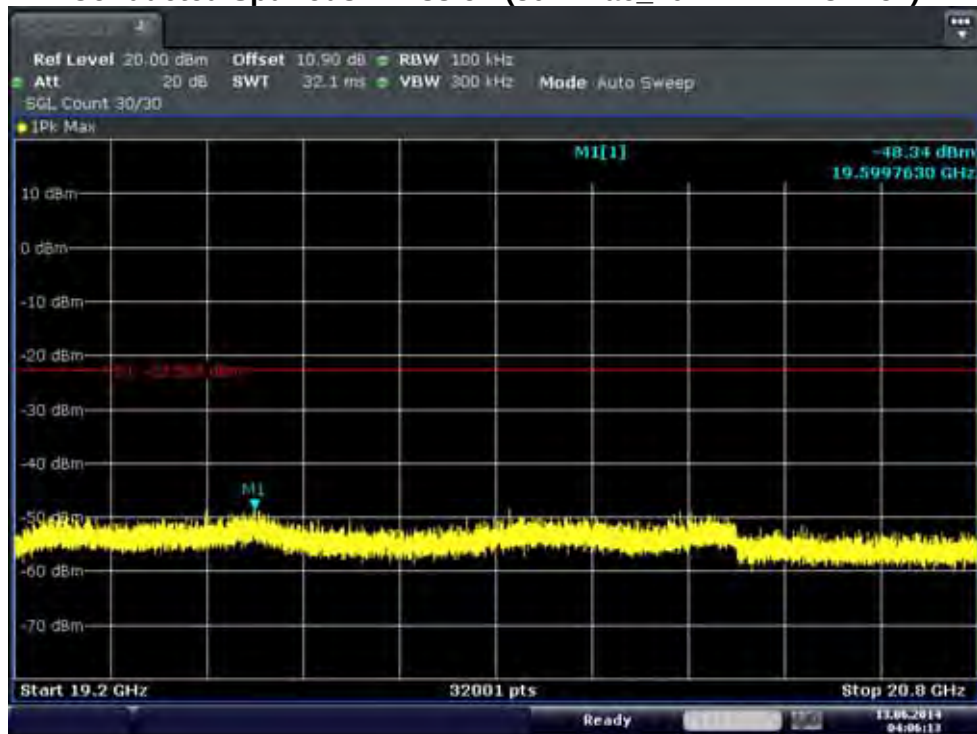
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

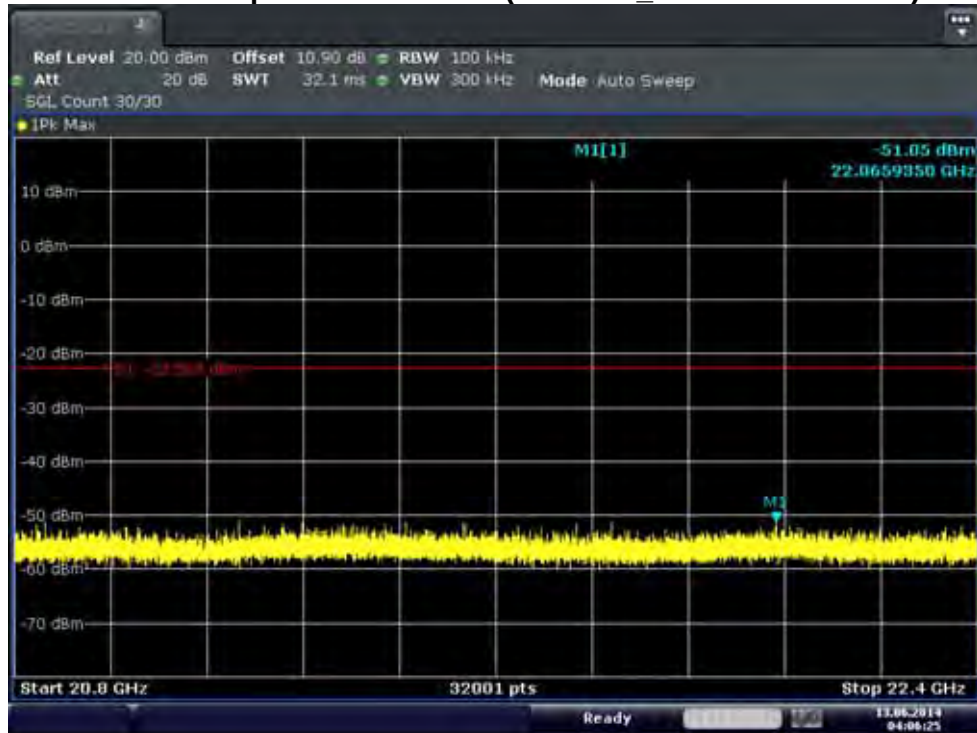
19.2 GHz ~ 20.8 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



20.8 GHz ~ 22.4 GHz

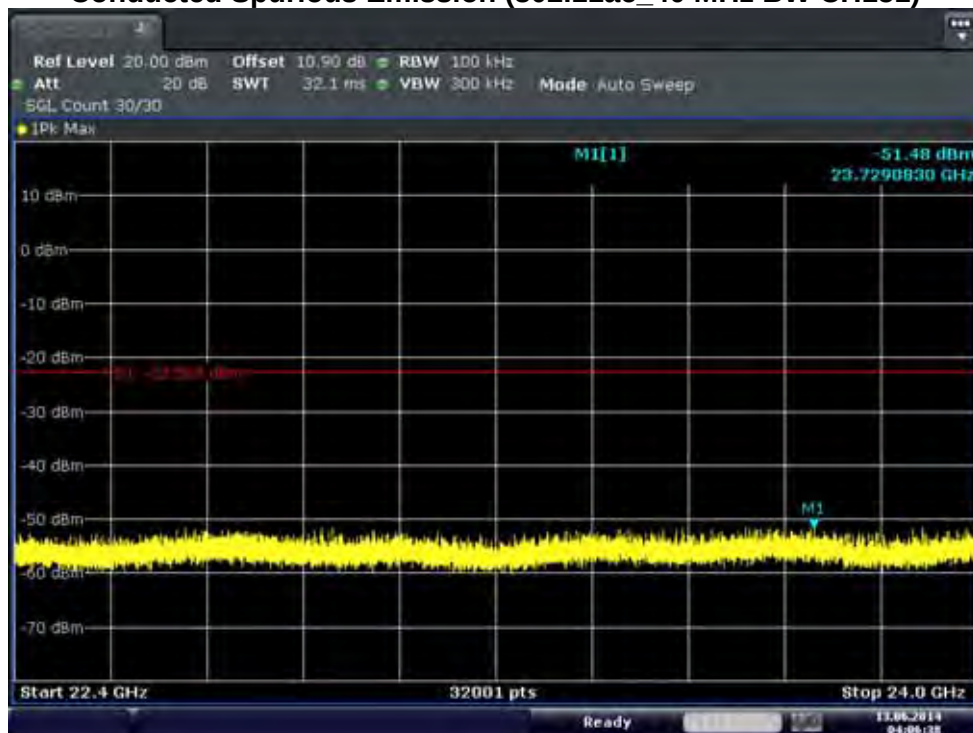
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

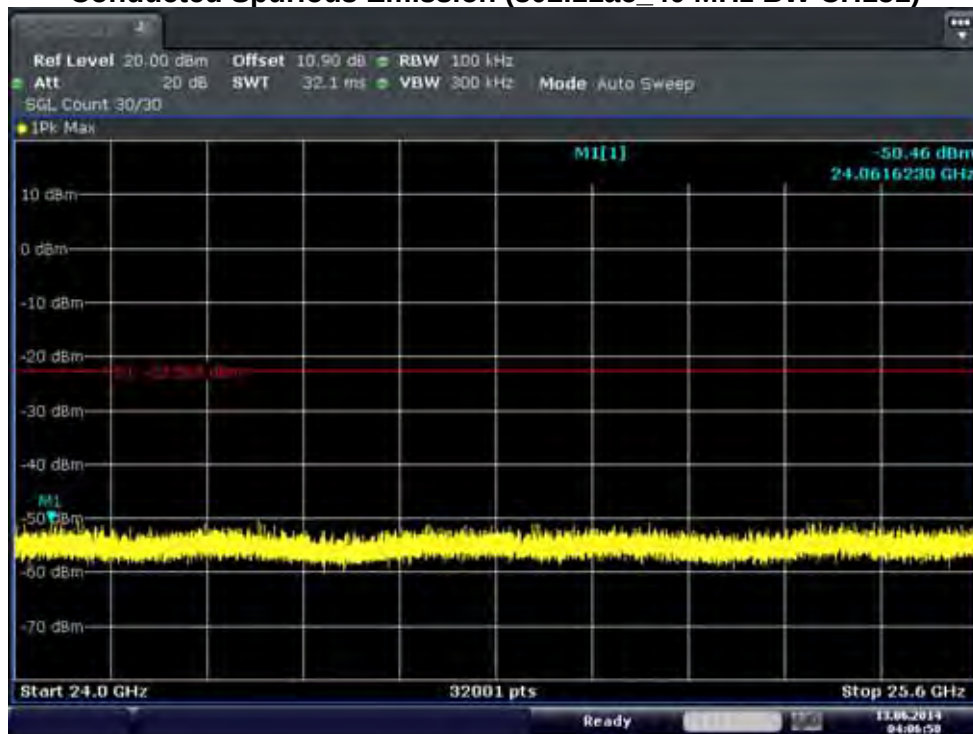
22.4 GHz ~ 24 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



24 GHz ~ 25.6 GHz

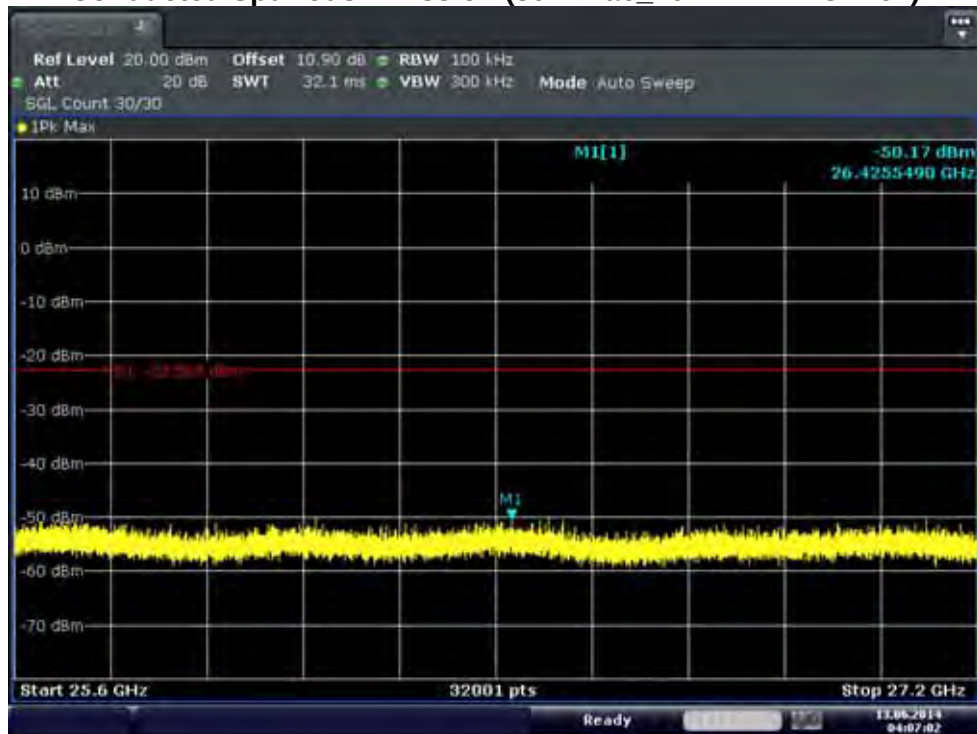
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

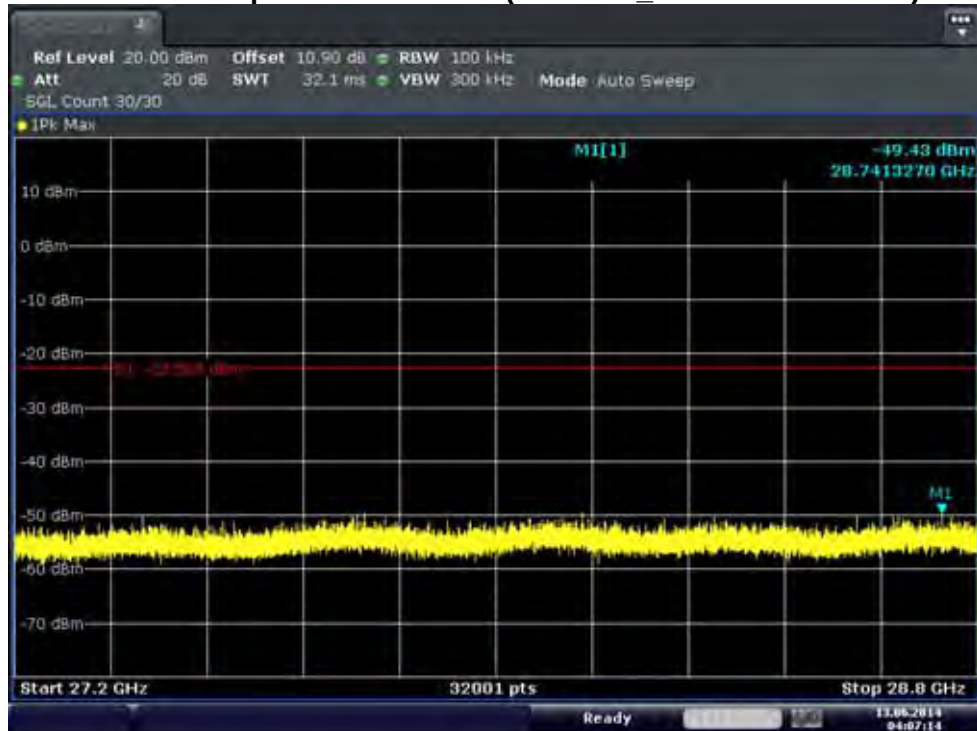
25.6 GHz ~ 27.2 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



27.2 GHz ~ 28.8 GHz

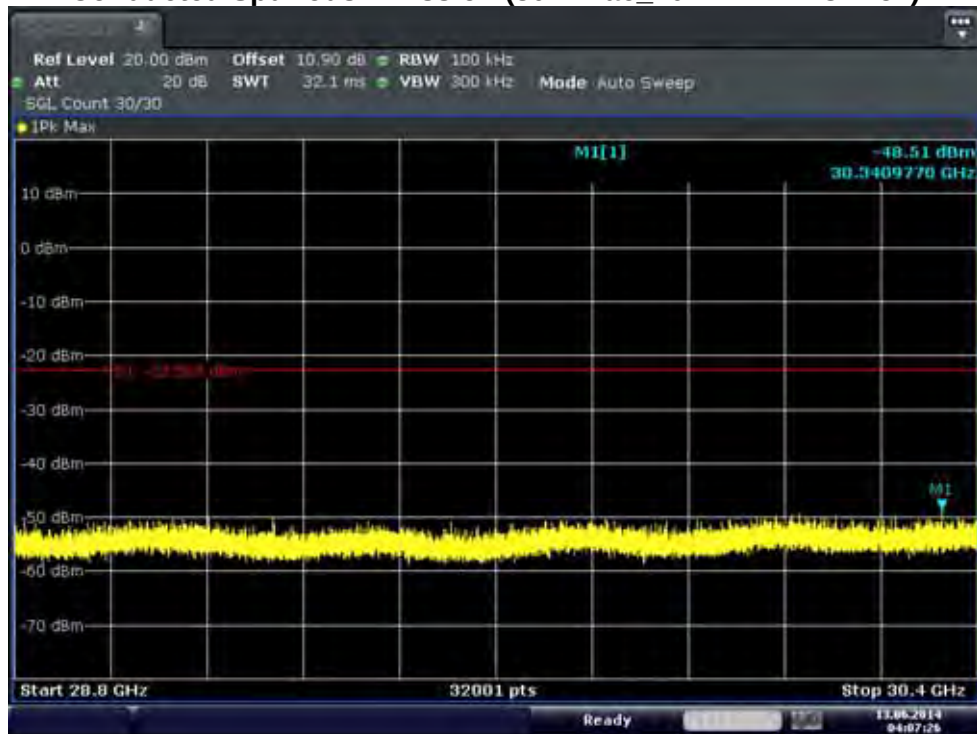
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

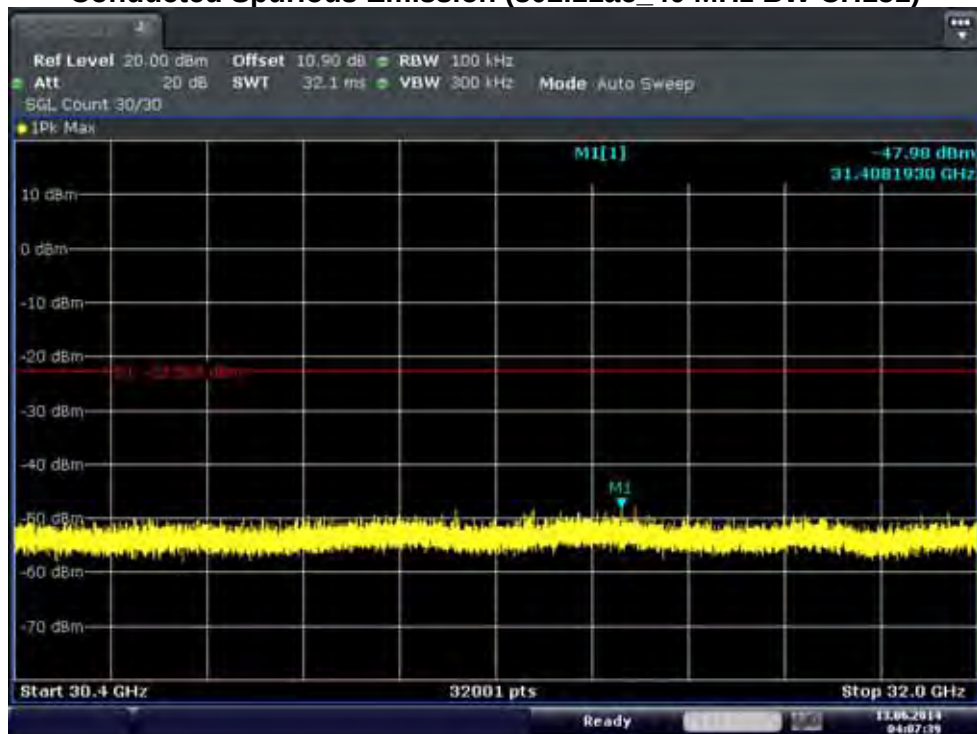
28.8 GHz ~ 30.4 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



30.4 GHz ~ 32 GHz

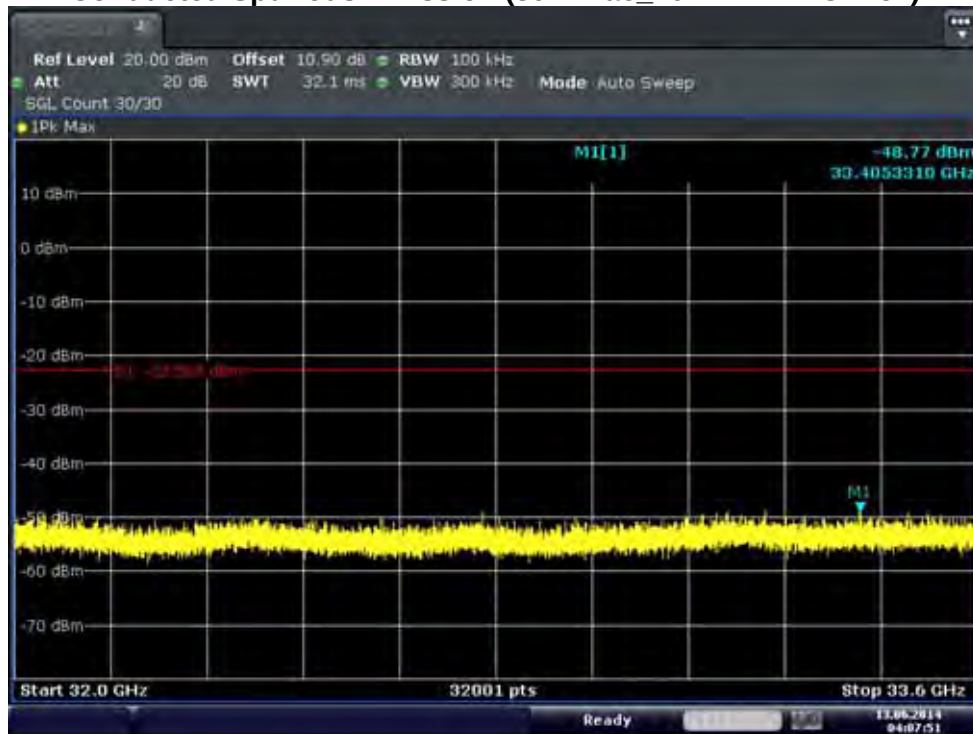
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

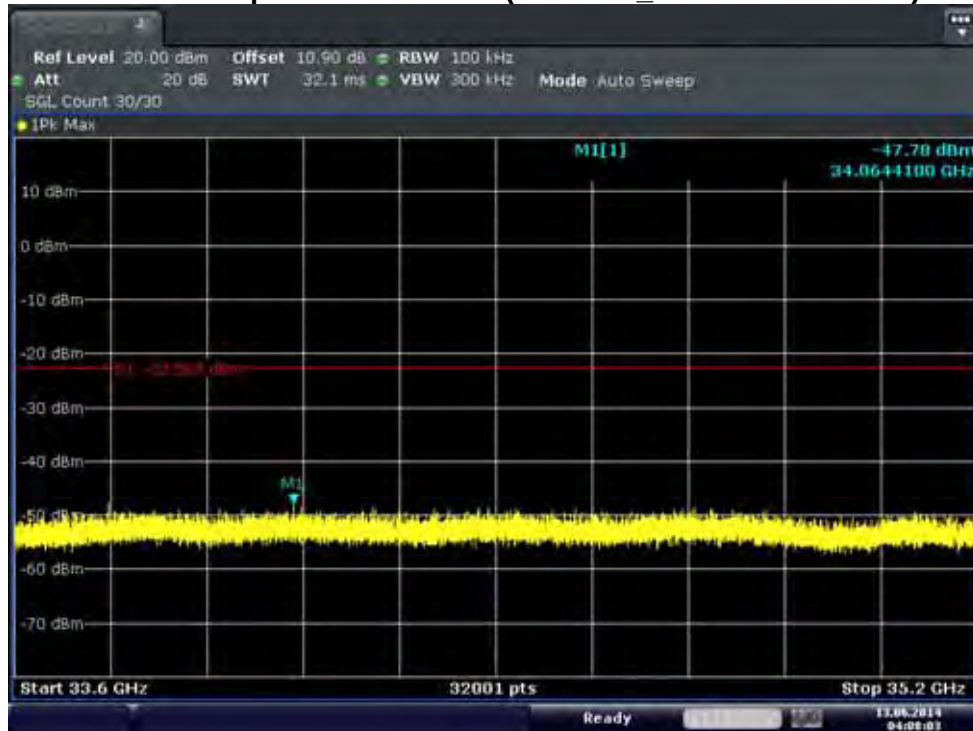
32 GHz ~ 33.6 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



33.6 GHz ~ 35.2 GHz

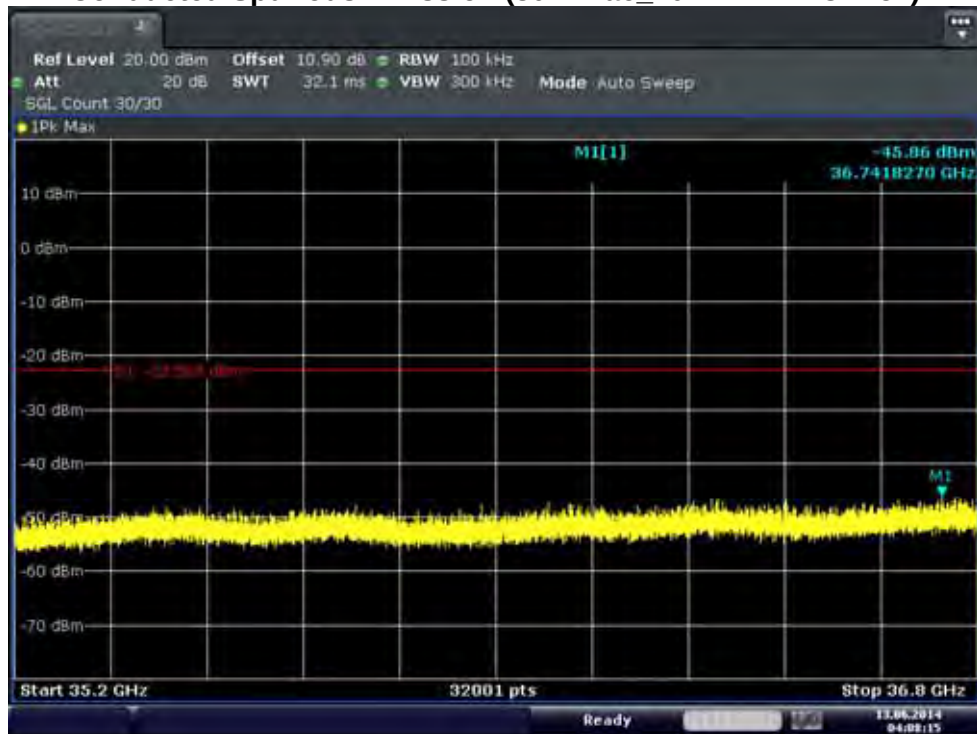
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

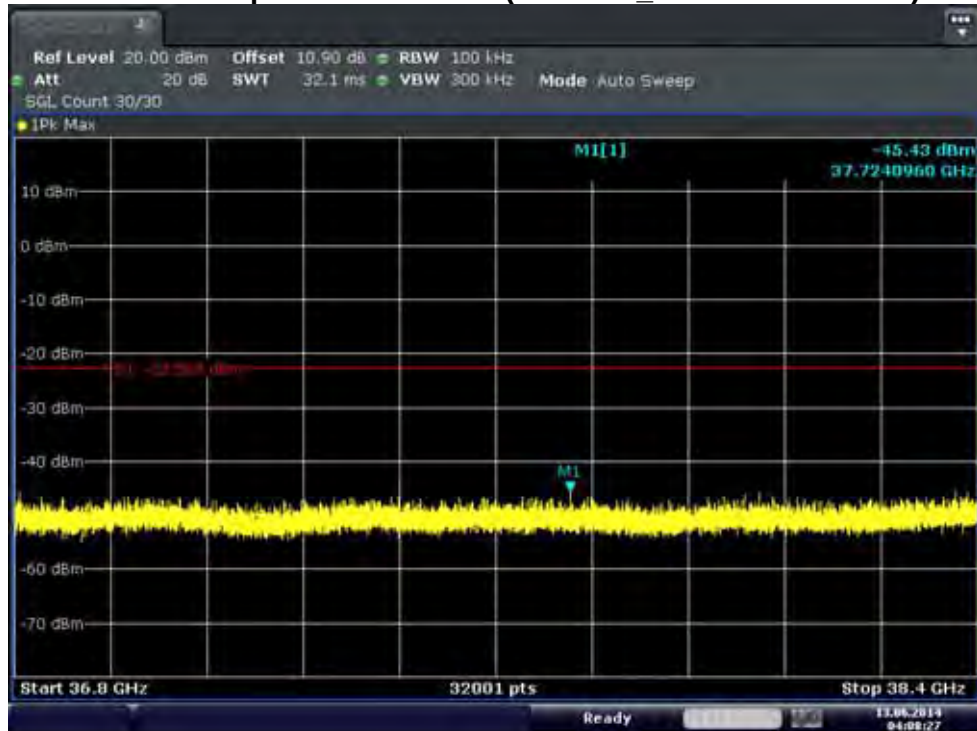
35.2 GHz ~ 36.8 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



36.8 GHz ~ 38.4 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



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Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

38.4 GHz ~ 40 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



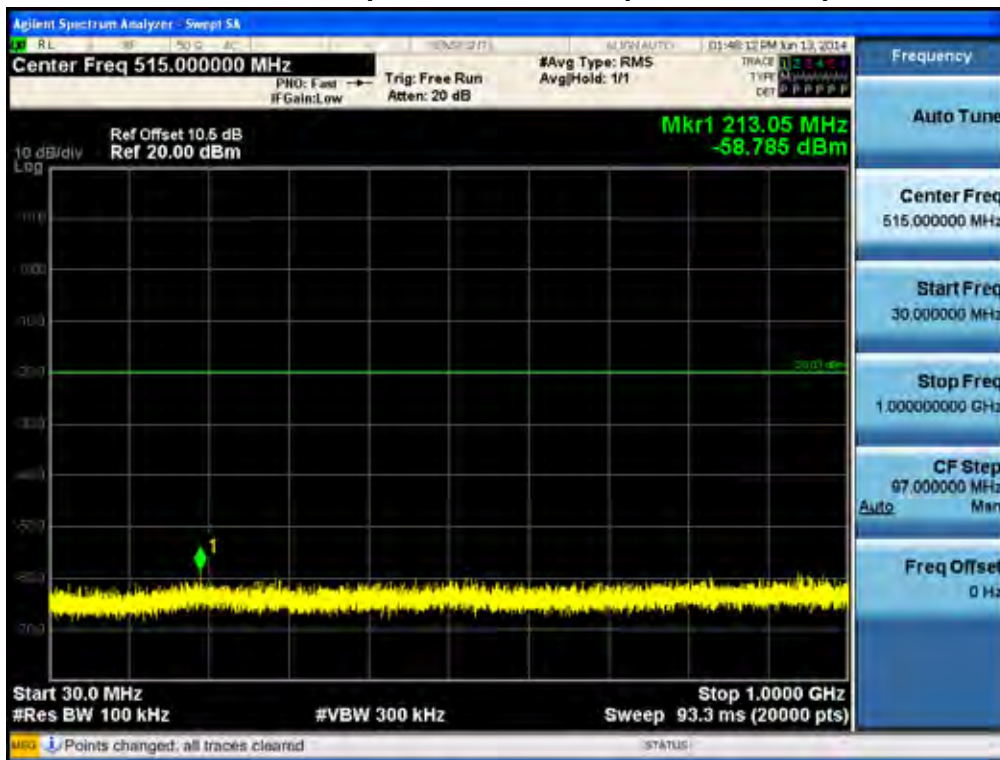
FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

Service Port Ant.2

2.4 GHz Band

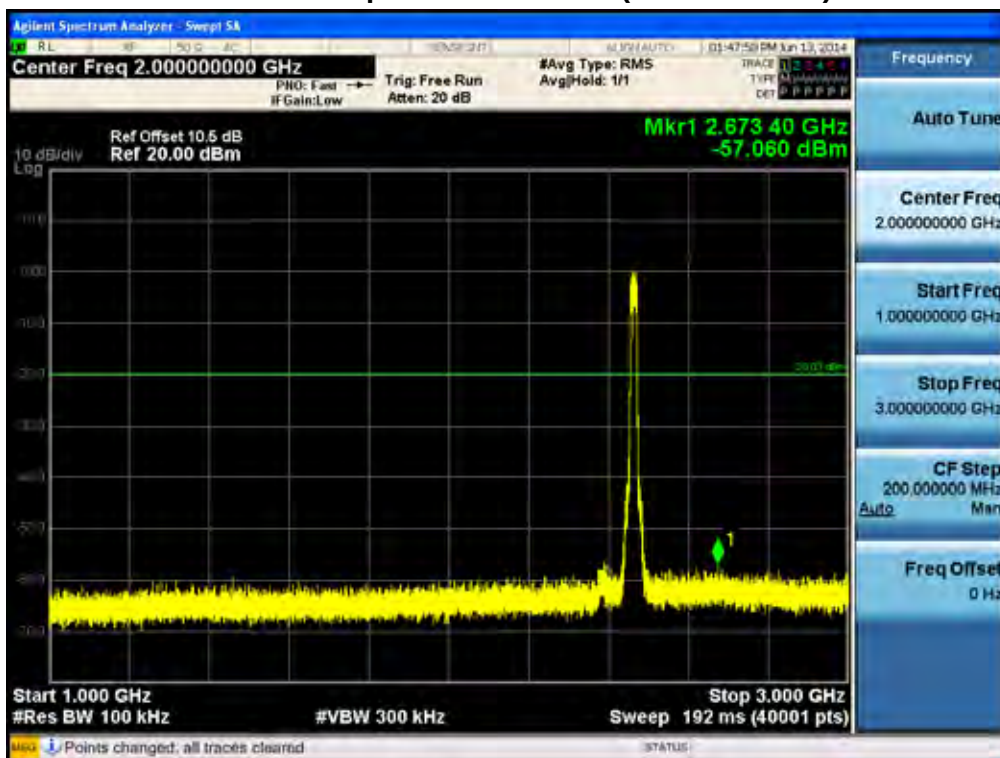
30 MHz ~ 1 GHz

Conducted Spurious Emission (802.11n-CH11)



1 GHz ~ 3 GHz

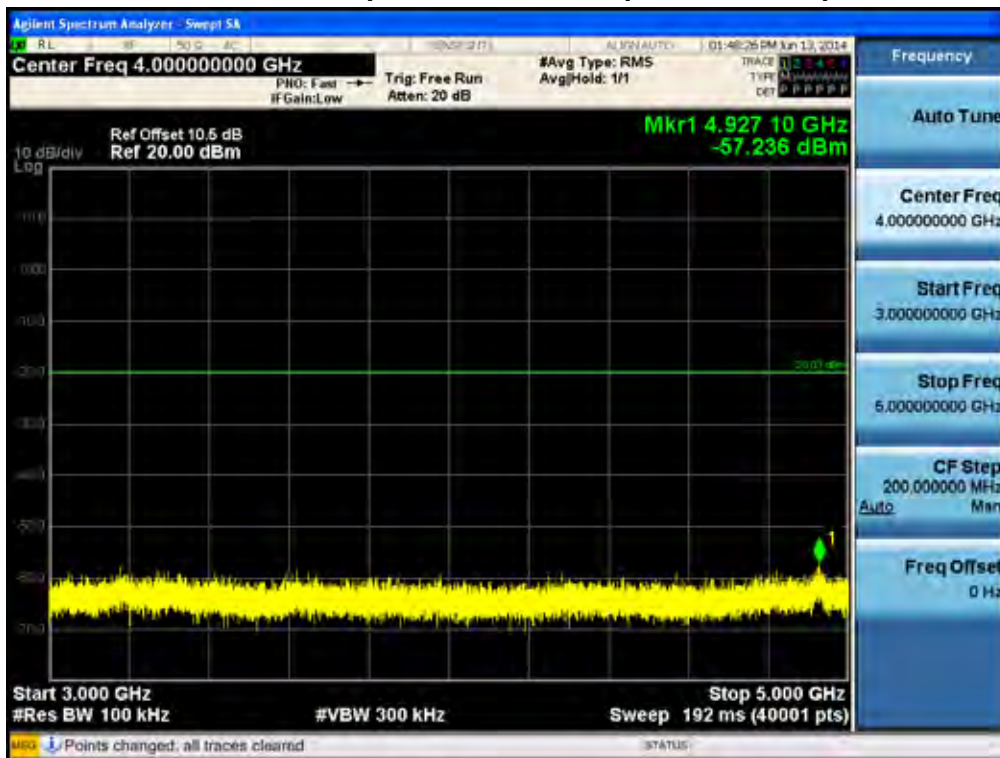
Conducted Spurious Emission (802.11n-CH11)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

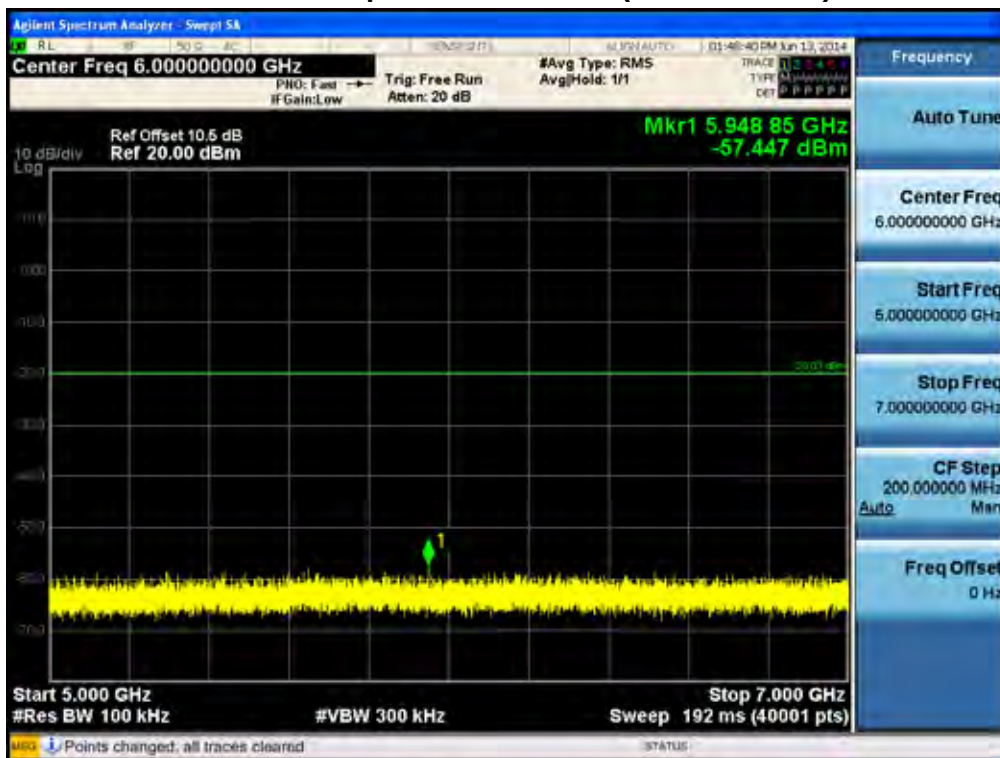
3 GHz ~ 5 GHz

Conducted Spurious Emission (802.11n-CH11)



5 GHz ~ 7 GHz

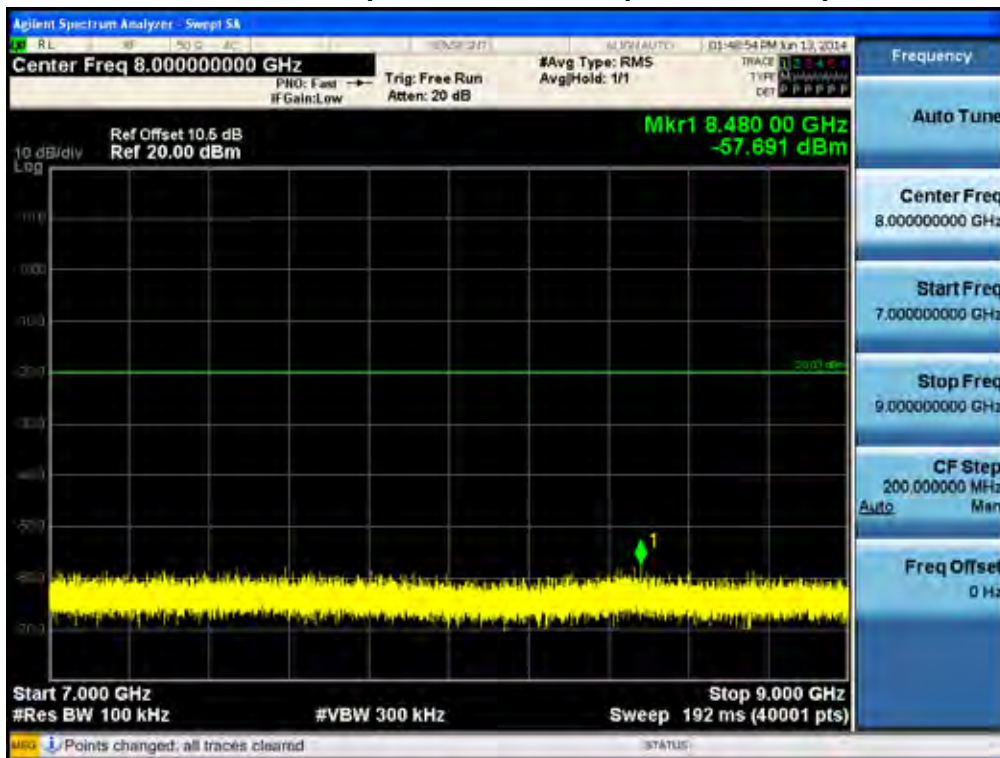
Conducted Spurious Emission (802.11n-CH11)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

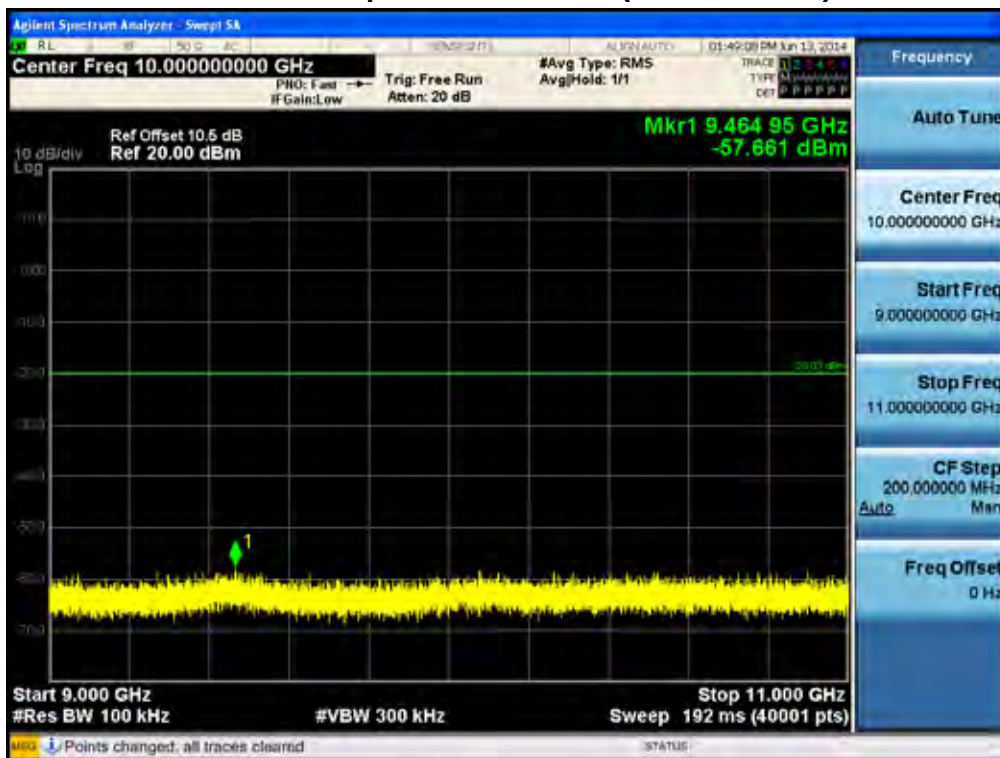
7 GHz ~ 9 GHz

Conducted Spurious Emission (802.11n-CH11)



9 GHz ~ 11 GHz

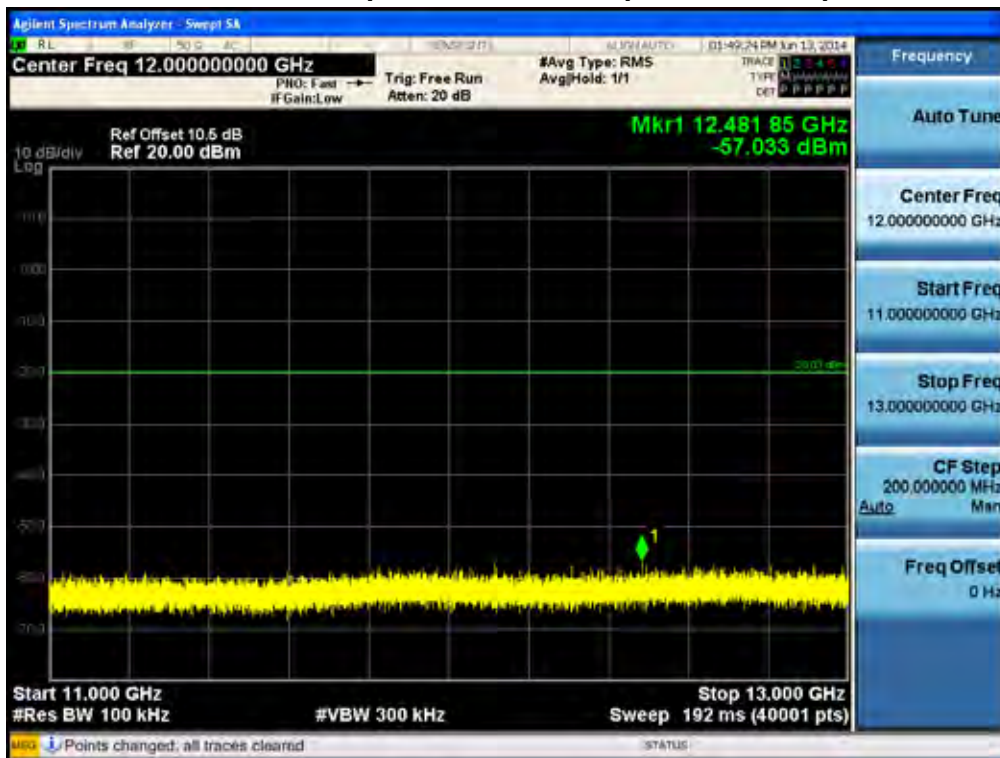
Conducted Spurious Emission (802.11n-CH11)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

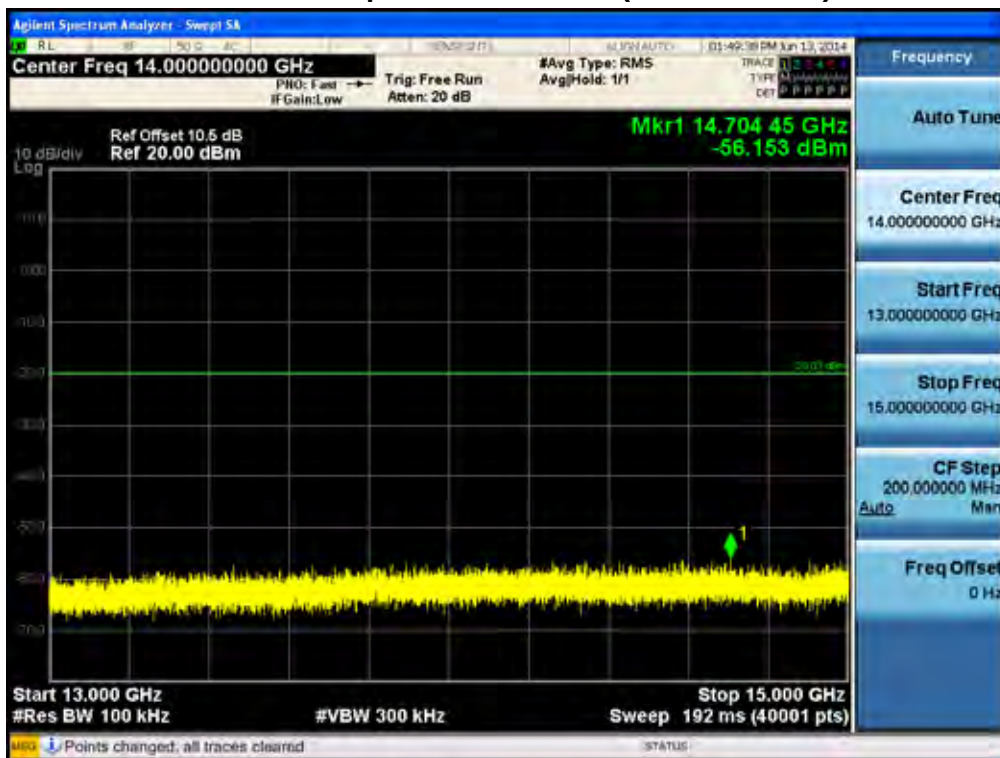
11 GHz ~ 13 GHz

Conducted Spurious Emission (802.11n-CH11)



13 GHz ~ 15 GHz

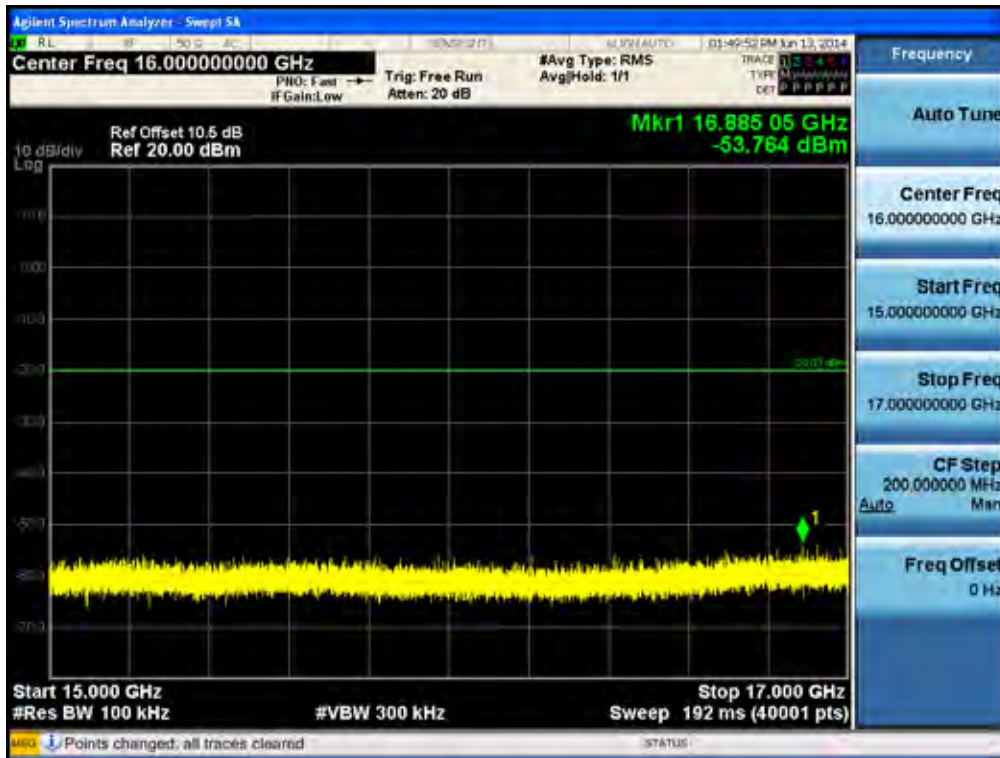
Conducted Spurious Emission (802.11n-CH11)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

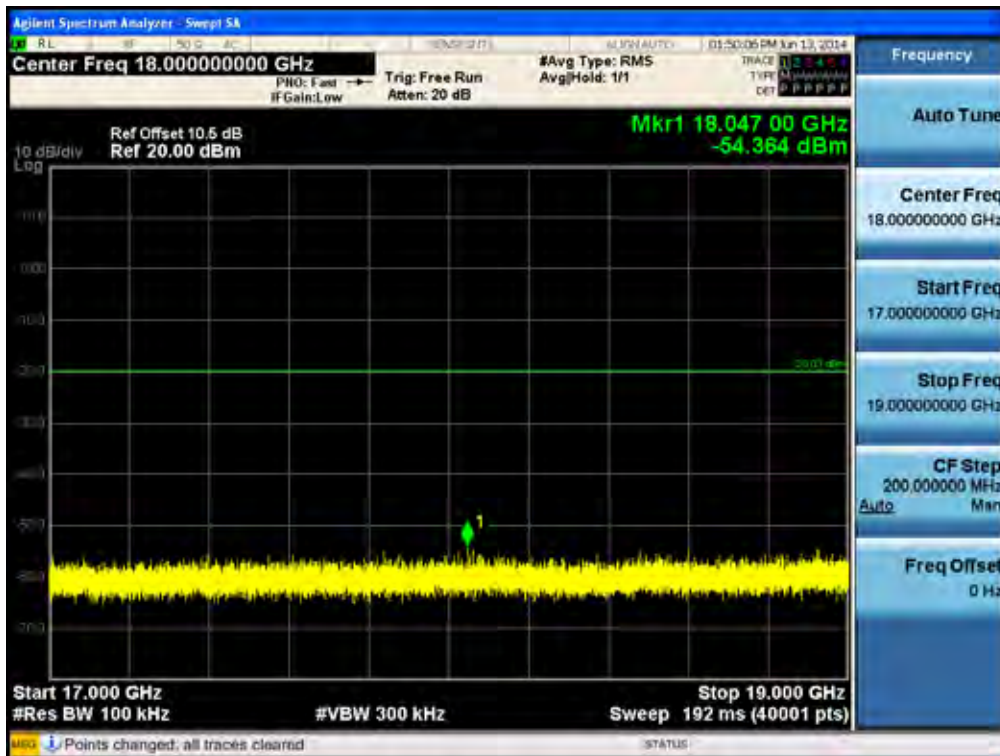
15 GHz ~ 17 GHz

Conducted Spurious Emission (802.11n-CH11)



17 GHz ~ 19 GHz

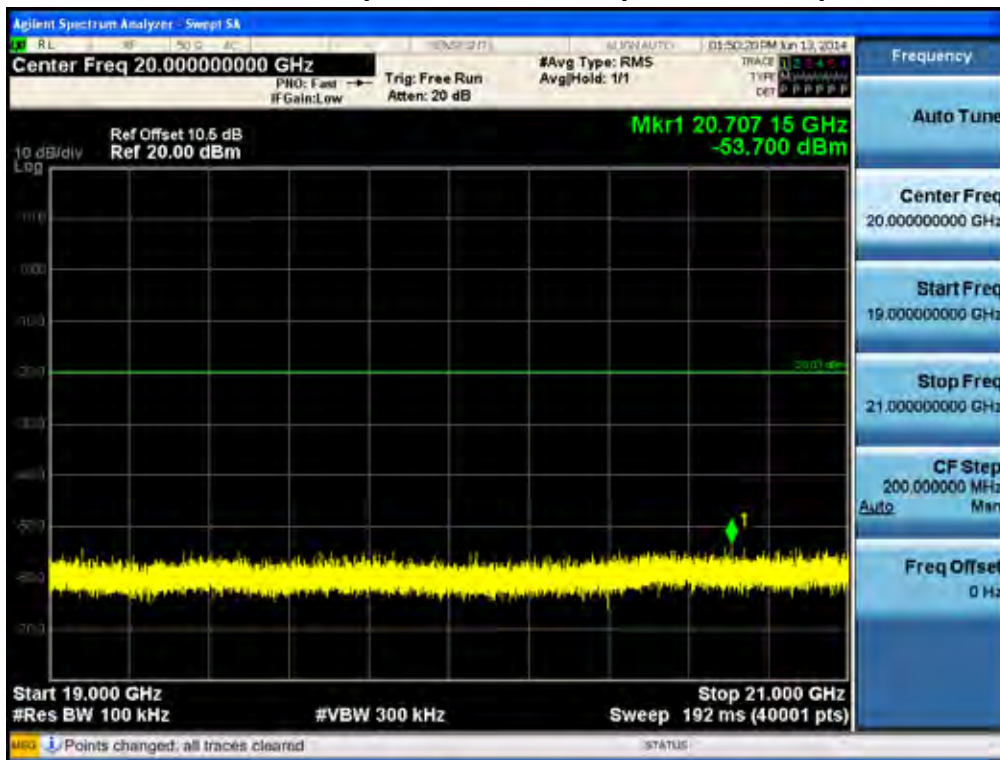
Conducted Spurious Emission (802.11n-CH11)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

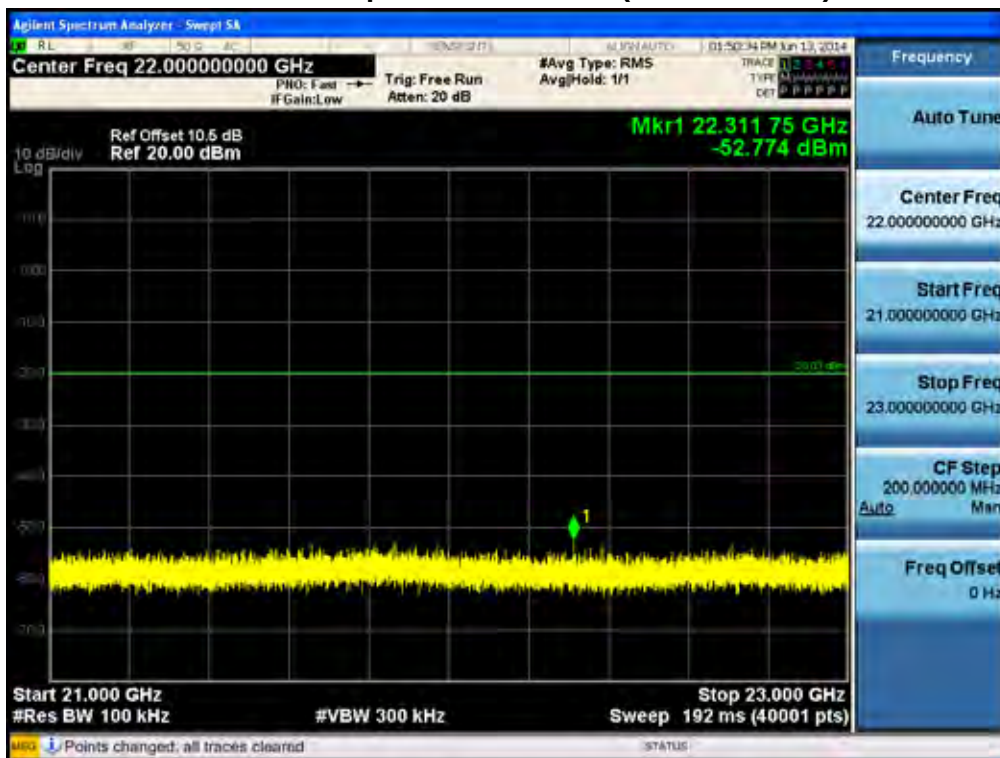
19 GHz ~ 21 GHz

Inducted Spurious Emission (802.11n-CH11)



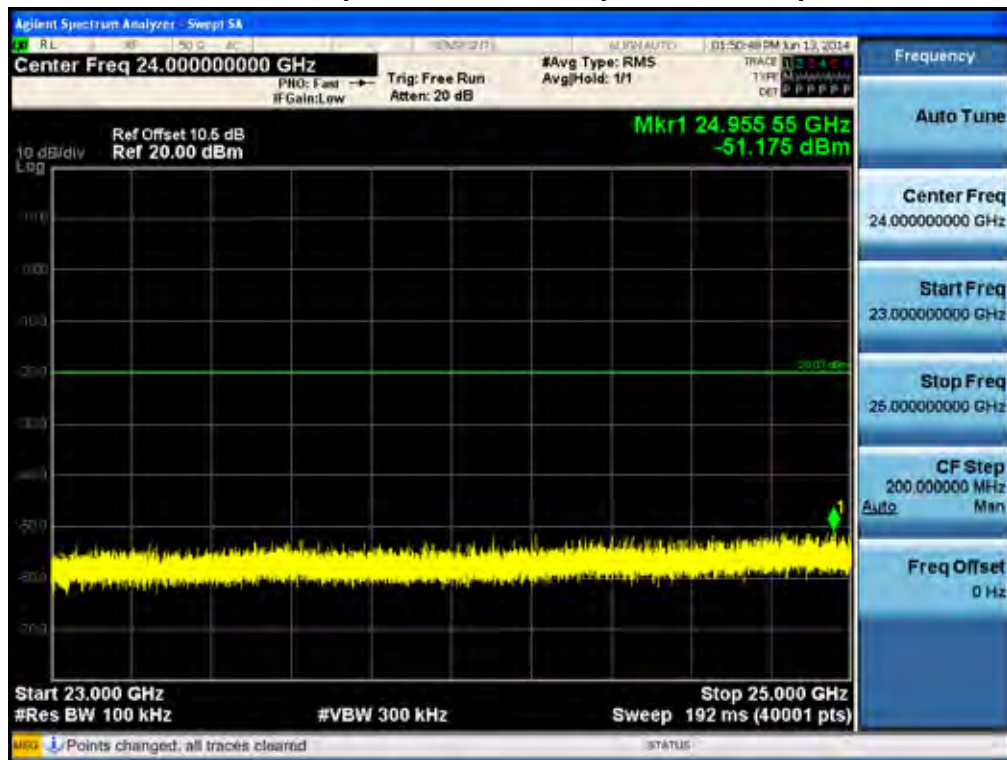
21 GHz ~ 23 GHz

Conducted Spurious Emission (802.11n-CH11)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

Conducted Spurious Emission (802.11n-CH11)



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Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

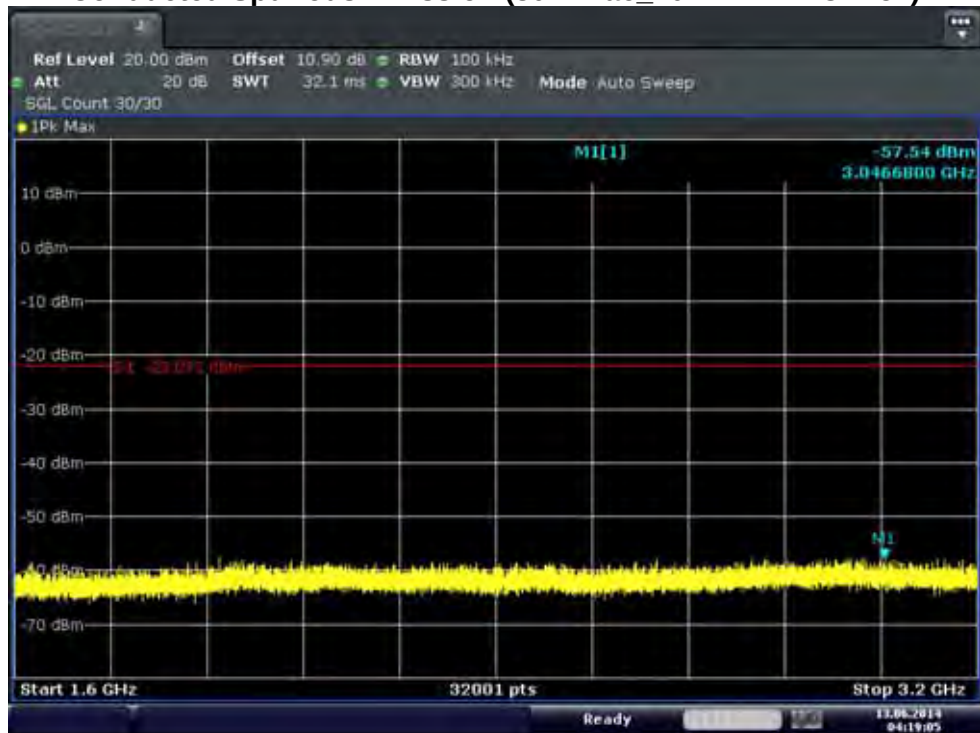
5.8 GHz Band 30 MHz ~ 1.6 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



1.6 GHz ~ 3.2 GHz

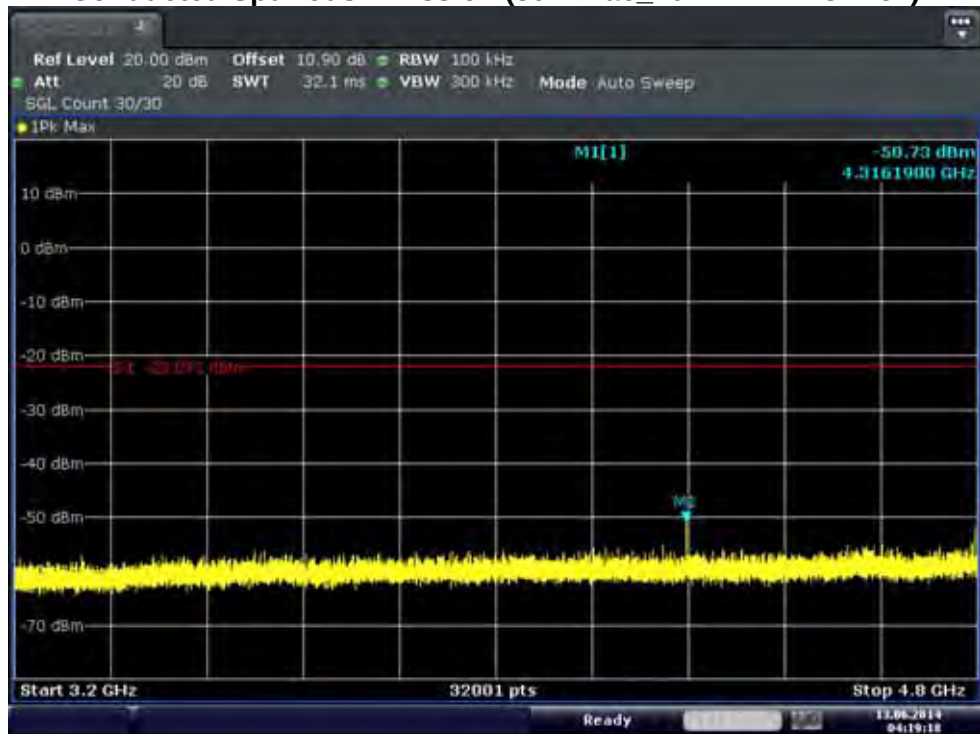
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

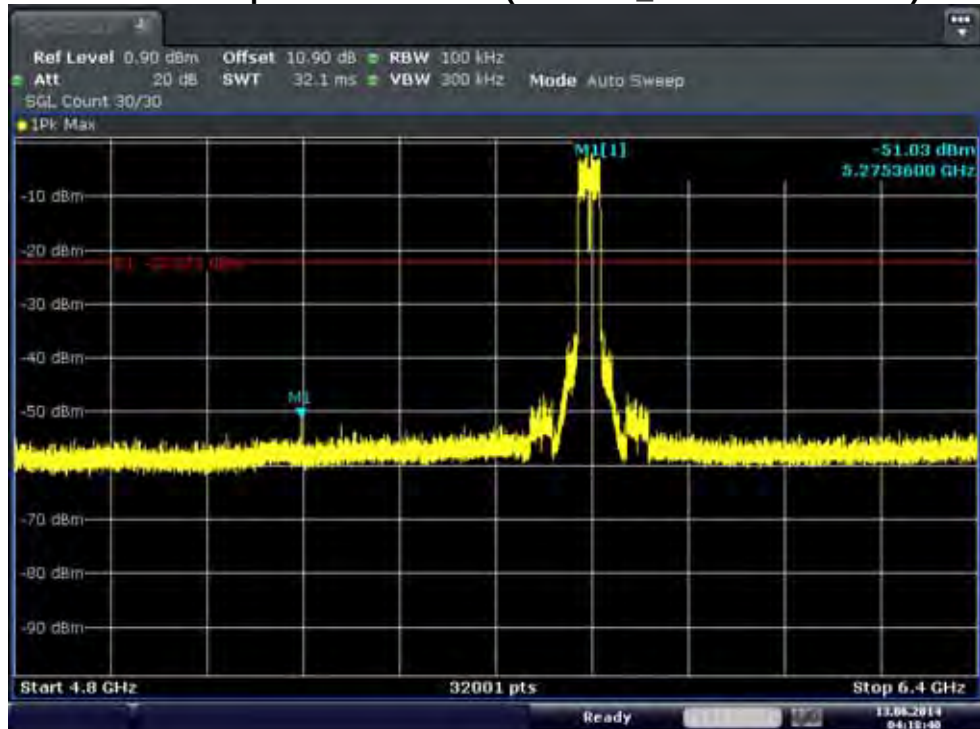
3.2 GHz ~ 4.8 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



4.8 GHz ~ 6.4 GHz

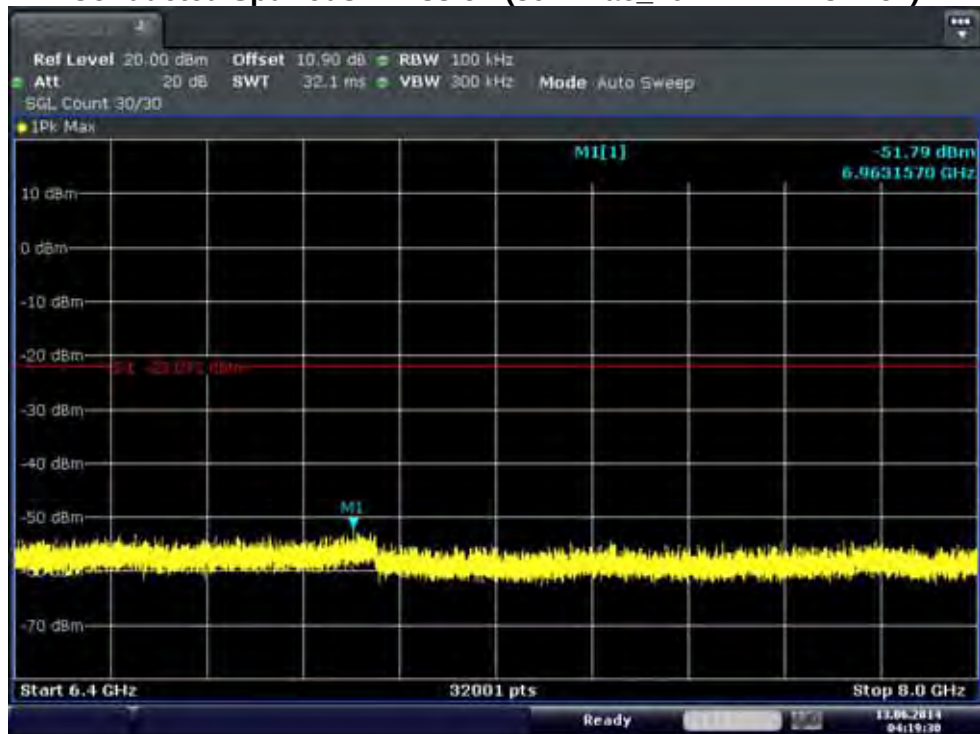
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



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Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

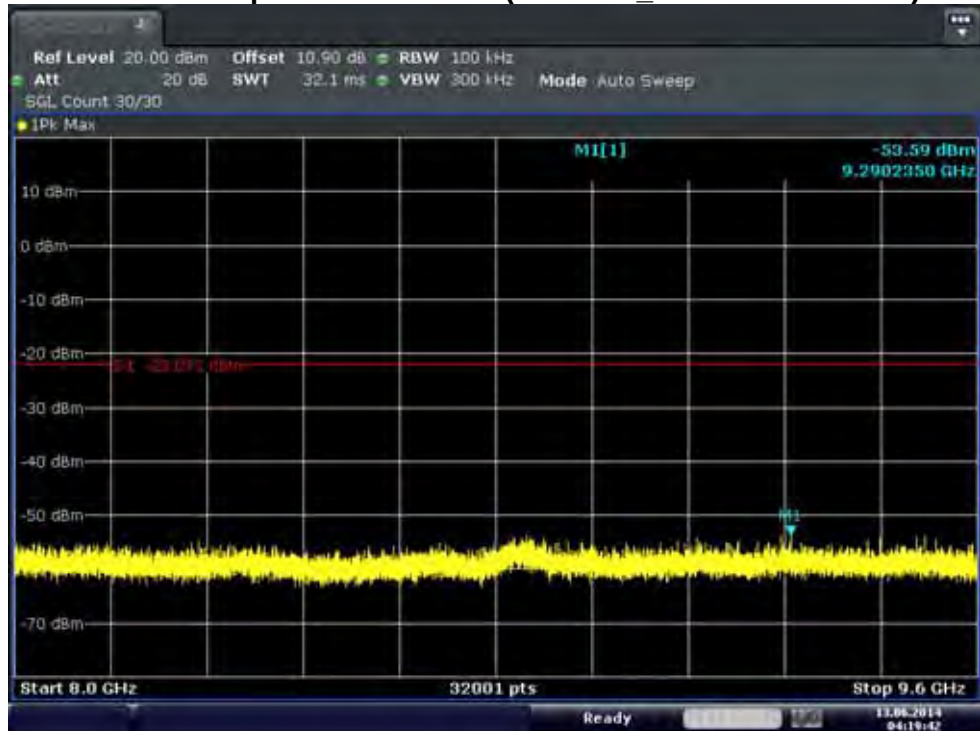
6.4 GHz ~ 8 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



8 GHz ~ 9.6 GHz

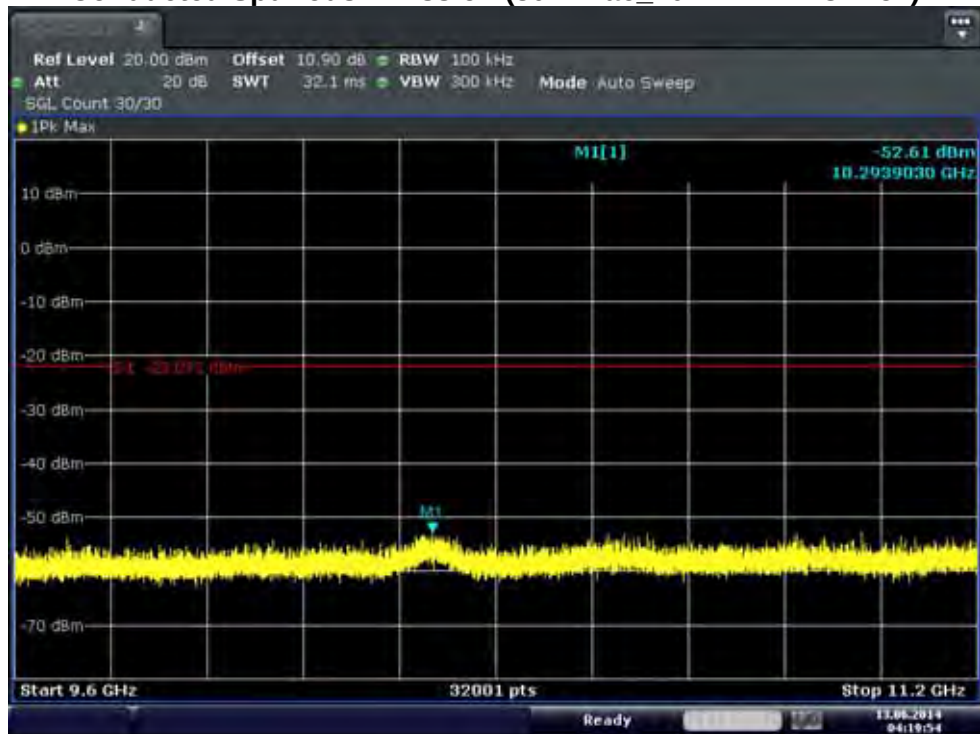
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



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Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

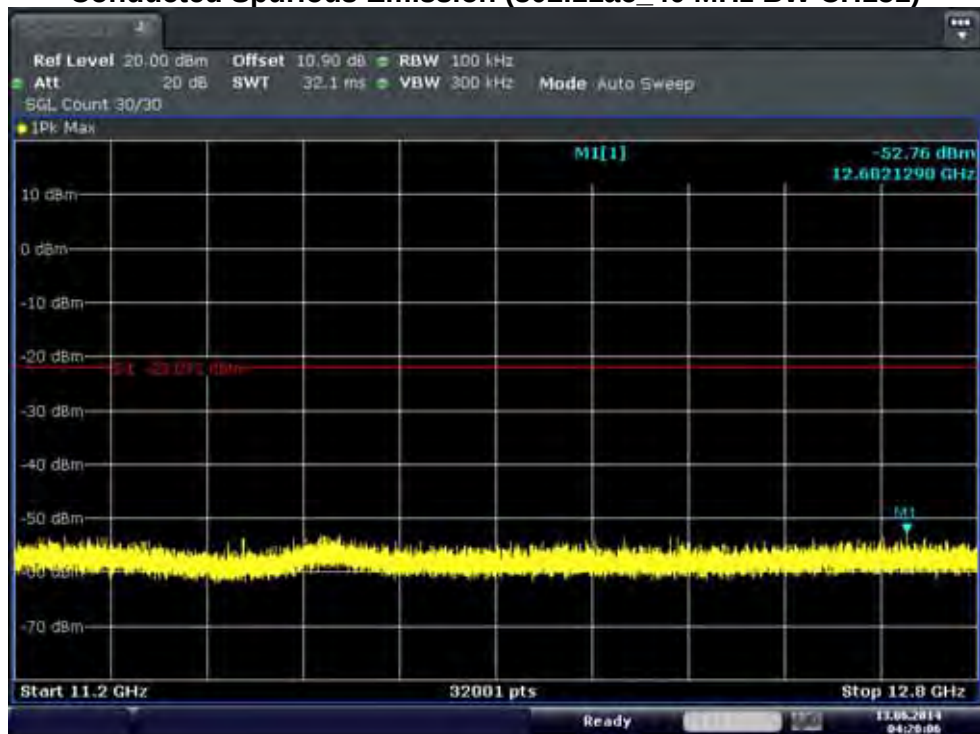
9.6 GHz ~ 11.2 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



11.2 GHz ~ 12.8 GHz

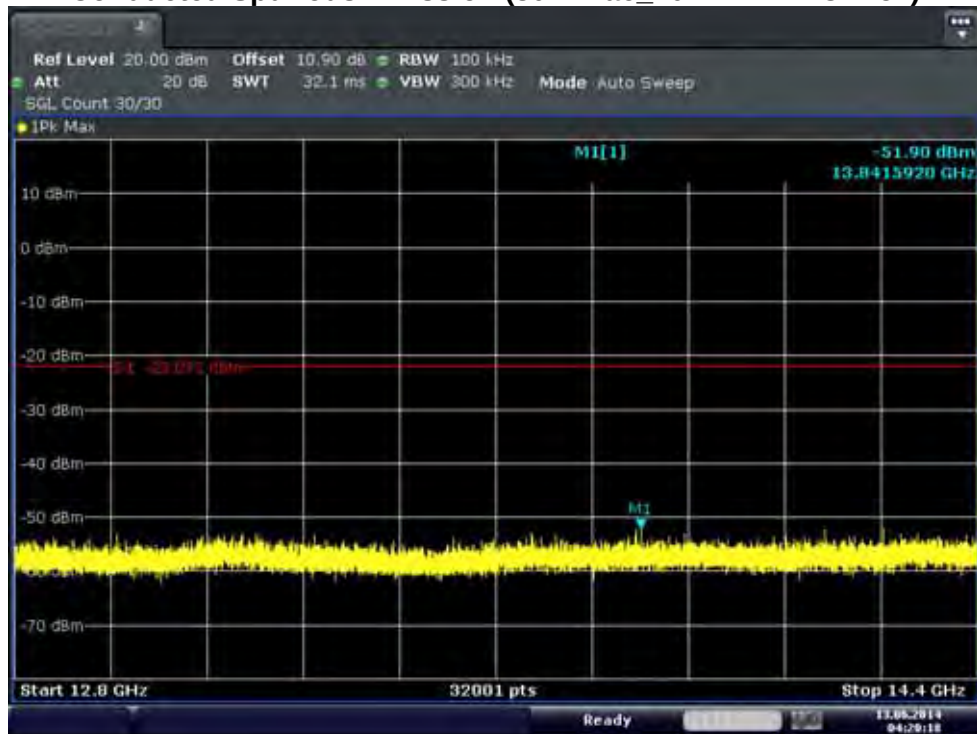
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



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Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

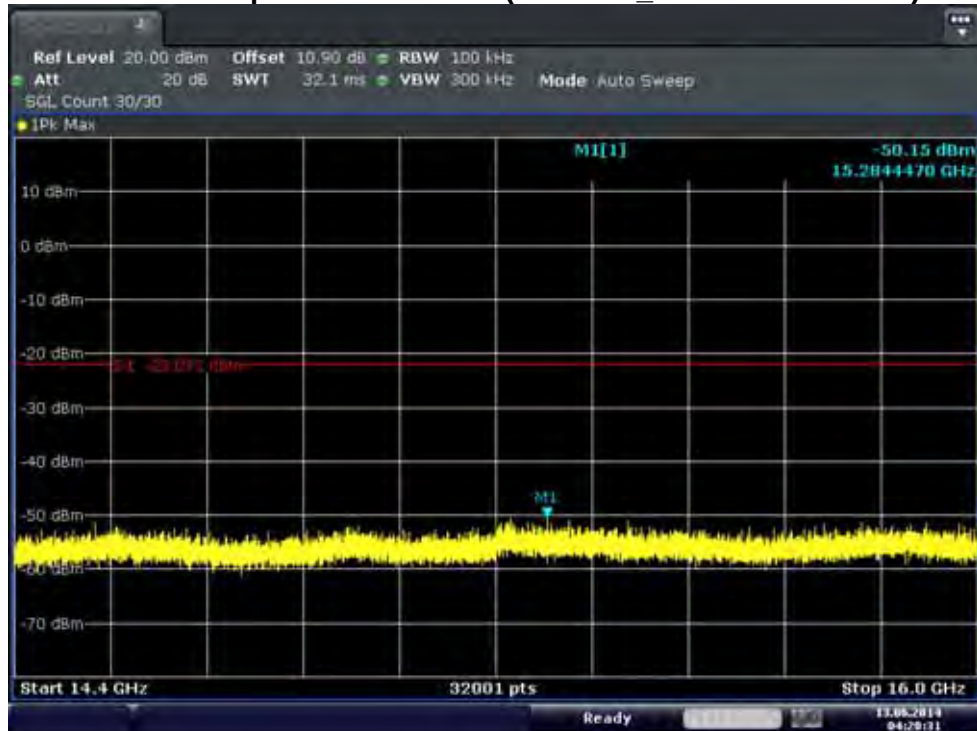
12.8 GHz ~ 12.8 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



14.4 GHz ~ 16 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



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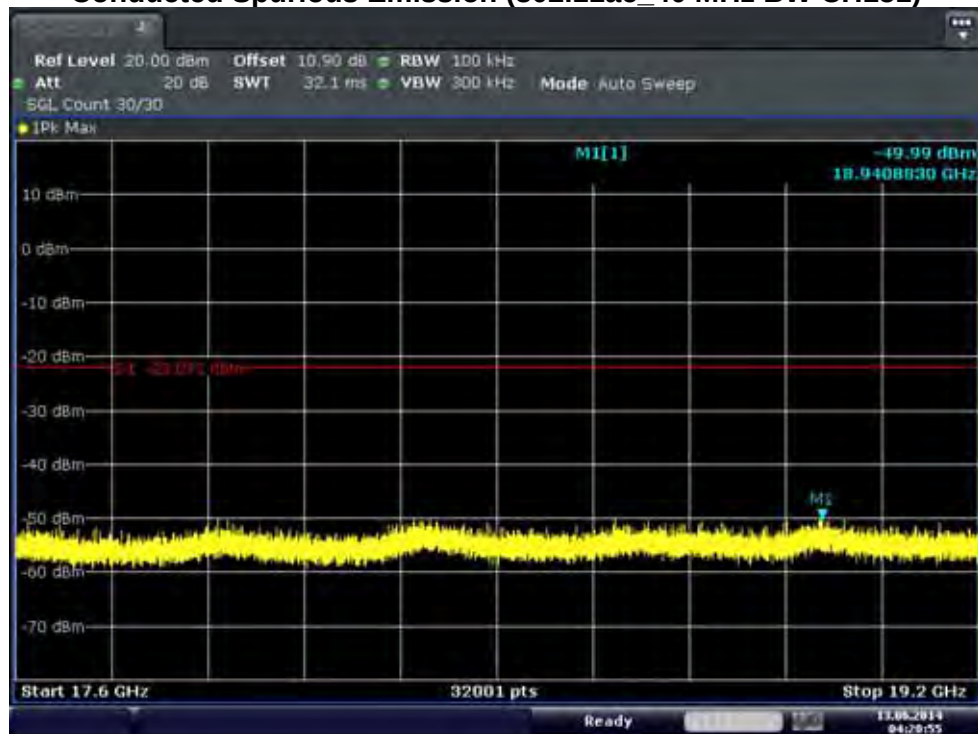
16 GHz ~ 17.6 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



17.6 GHz ~ 19.2 GHz

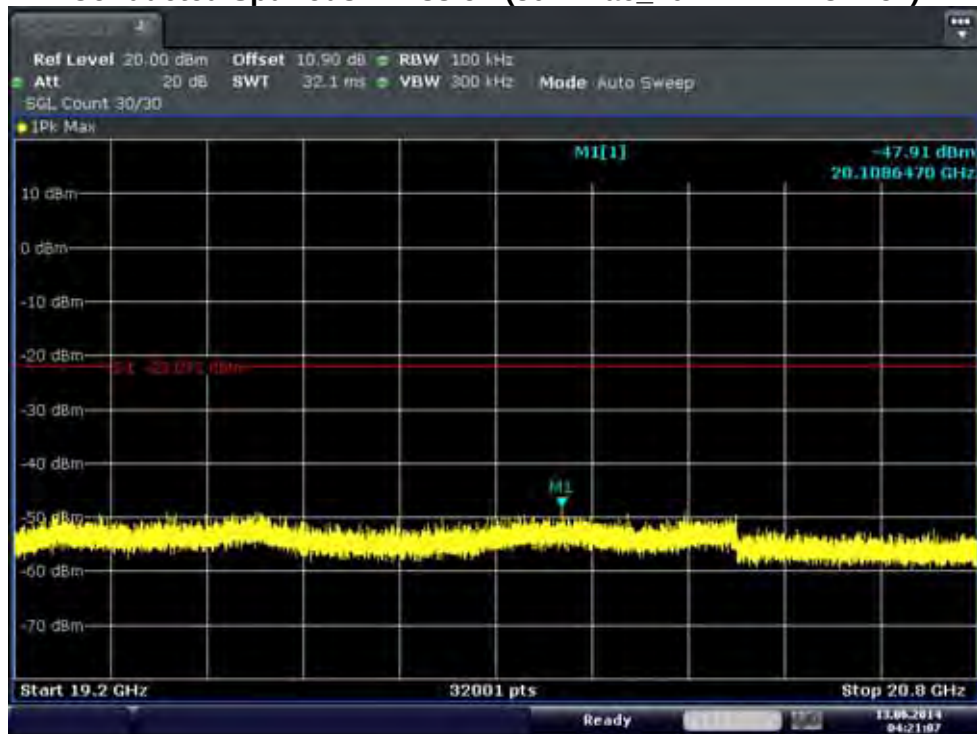
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



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19.2 GHz ~ 20.8 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



20.8 GHz ~ 22.4 GHz

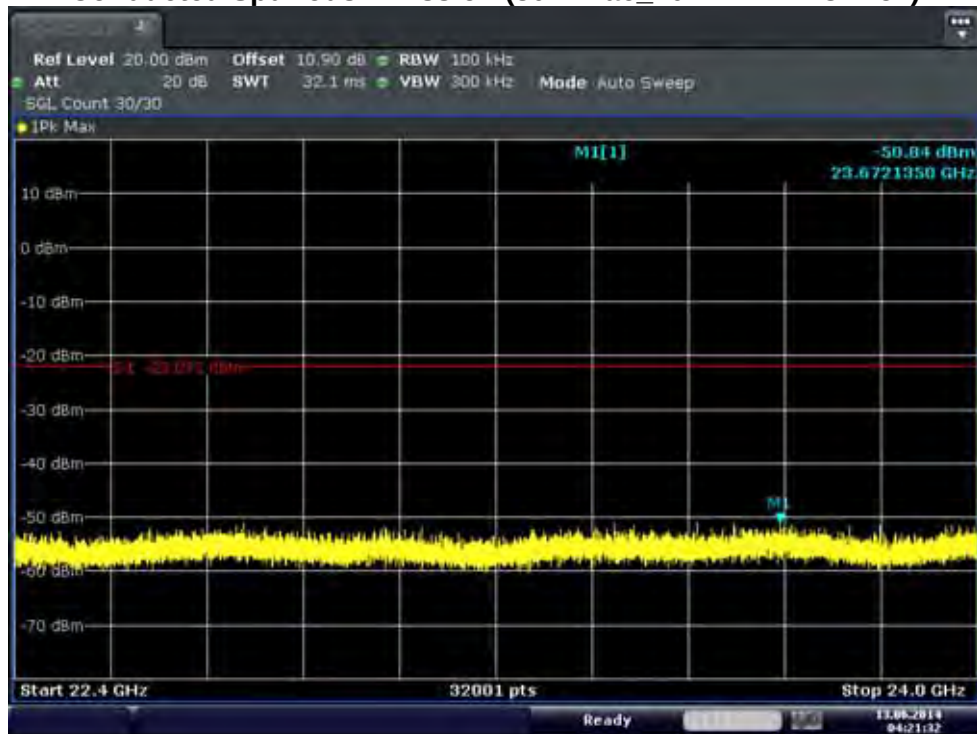
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22.4 GHz ~ 24 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



24 GHz ~ 25.6 GHz

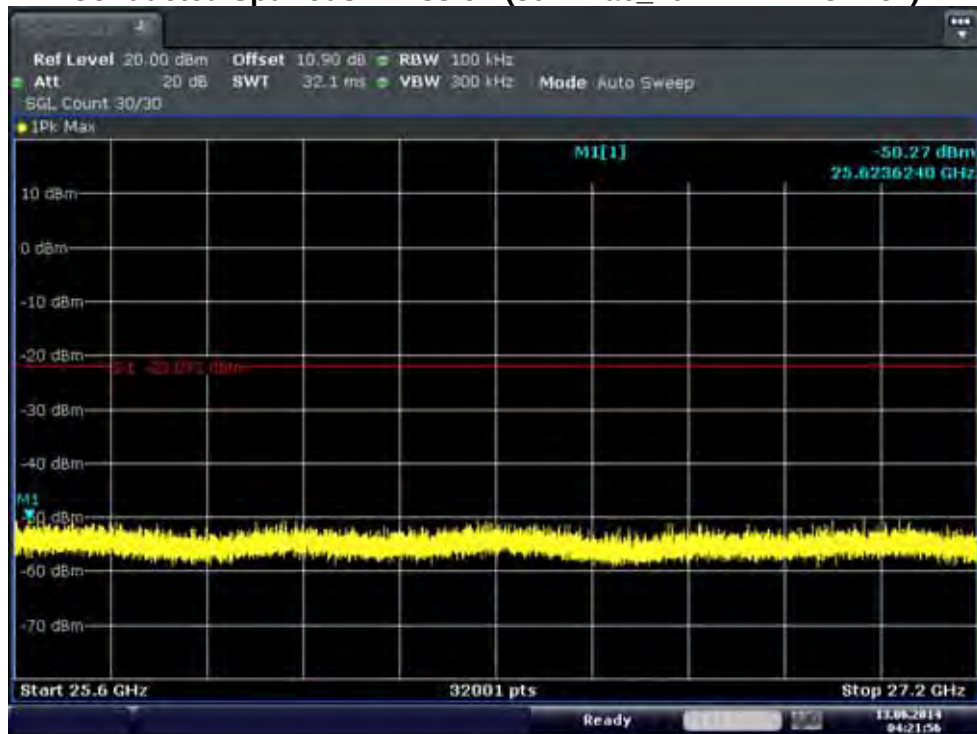
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



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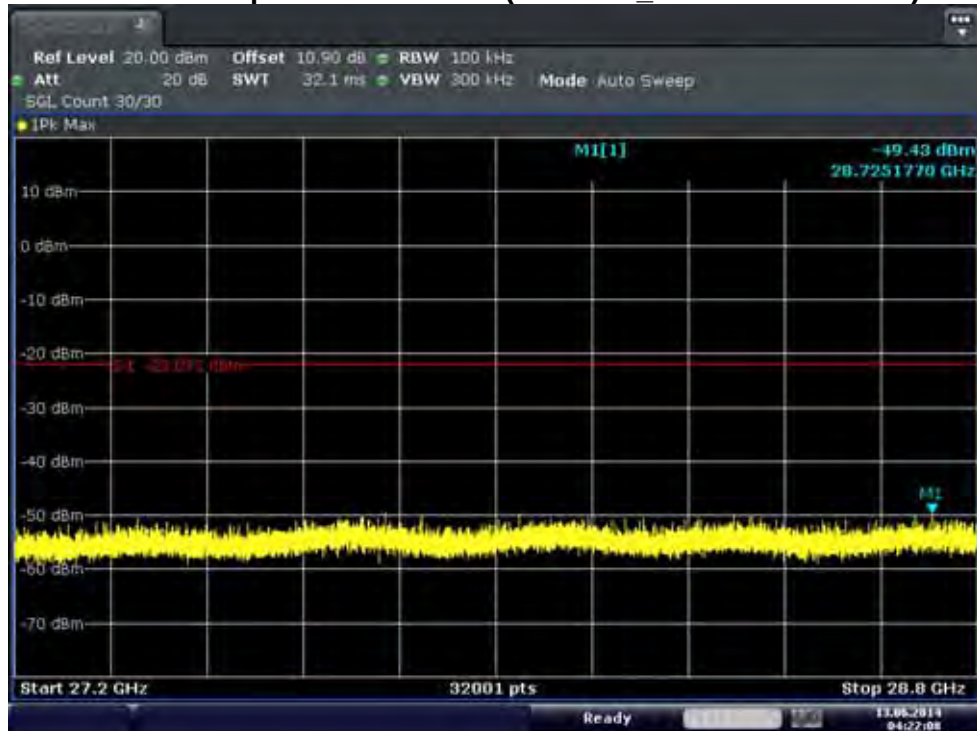
25.6 GHz ~ 27.2 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



27.2 GHz ~ 28.8 GHz

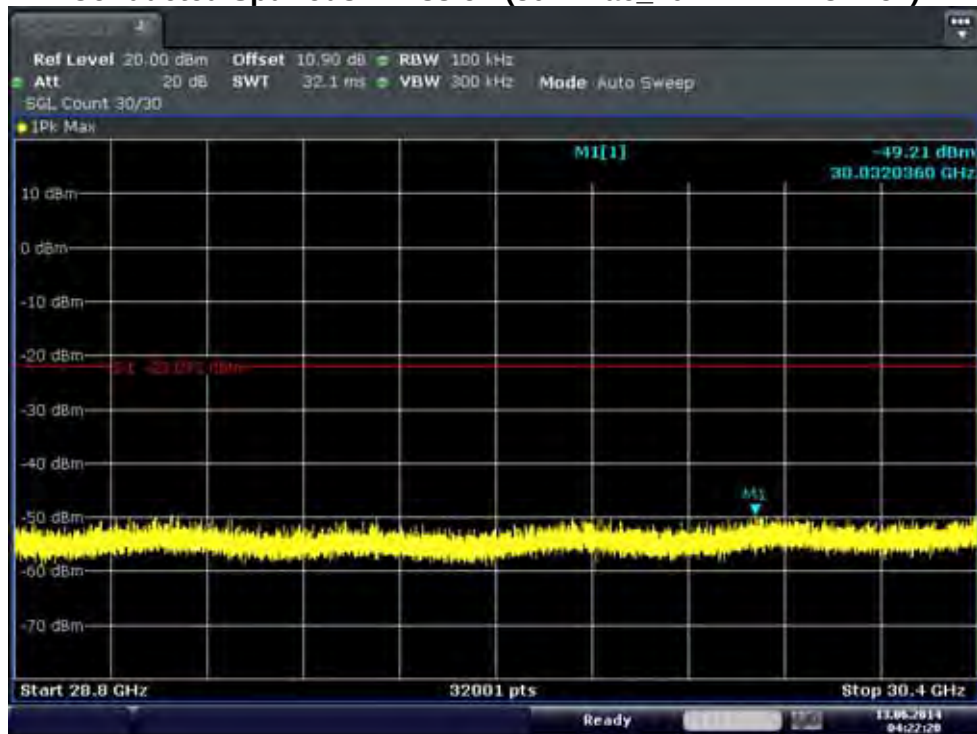
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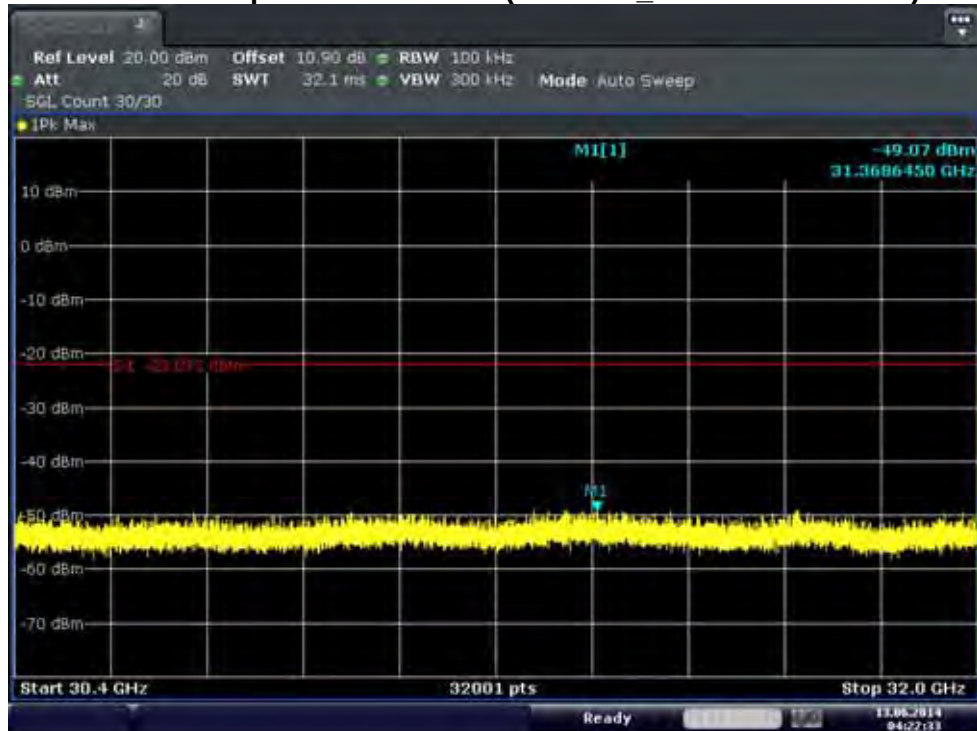
28.8 GHz ~ 30.4 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



30.4 GHz ~ 32 GHz

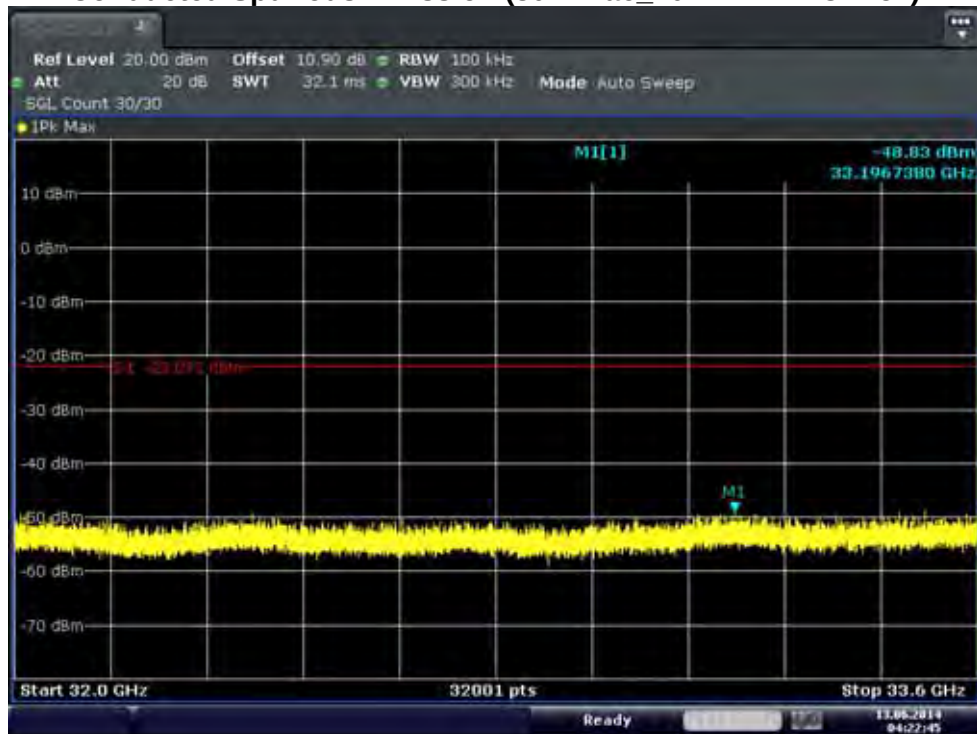
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



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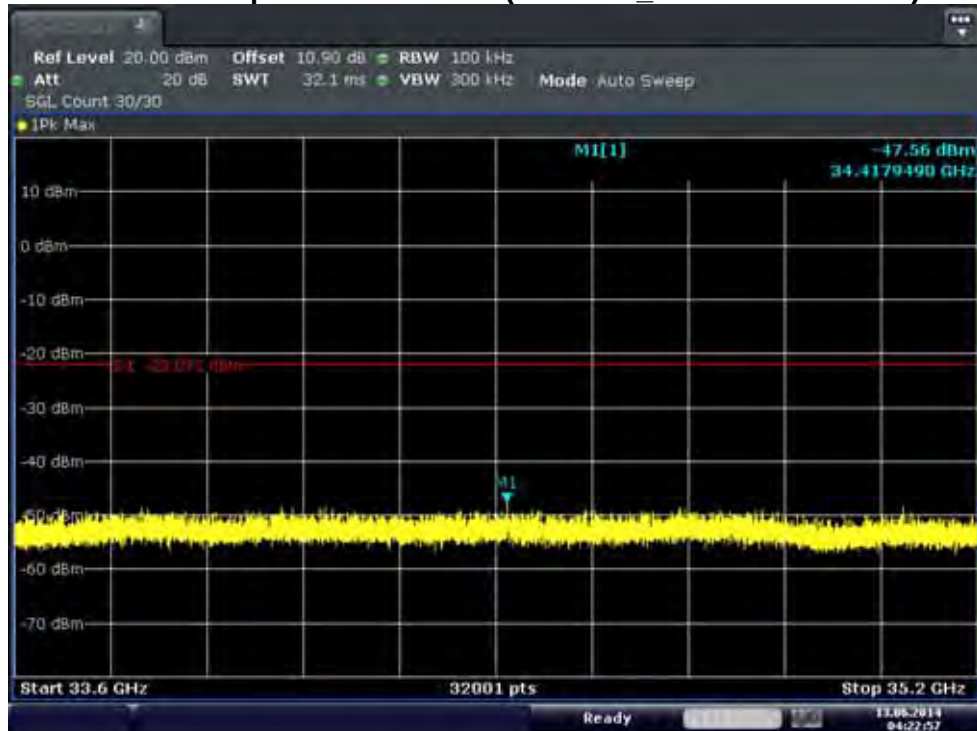
32 GHz ~ 33.6 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



33.6 GHz ~ 35.2 GHz

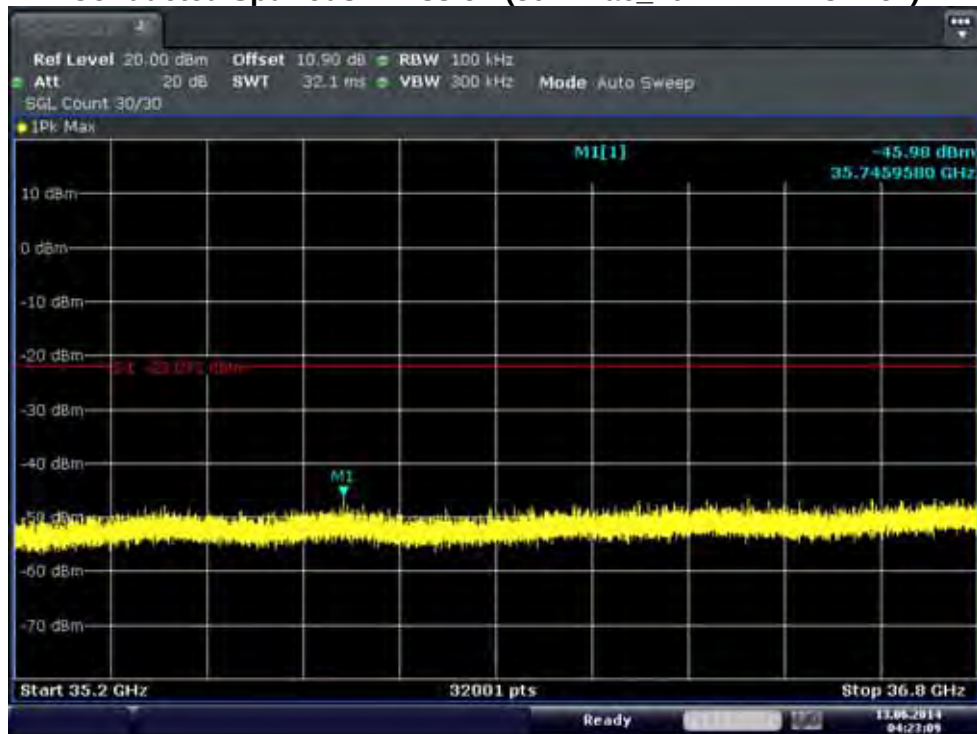
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



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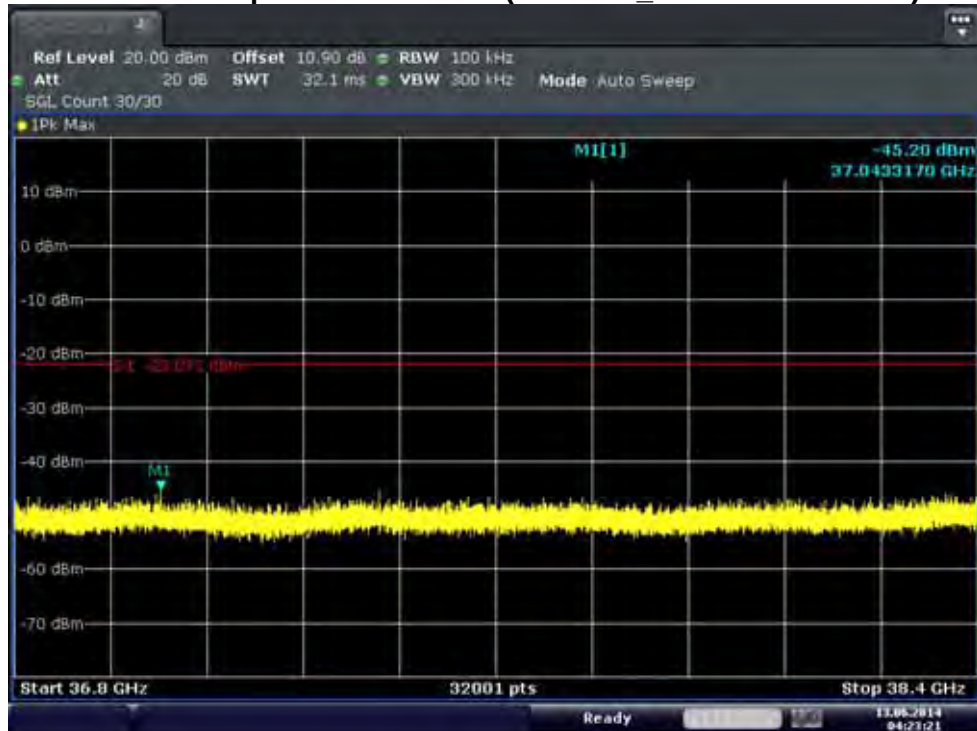
35.2 GHz ~ 36.8 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



36.8 GHz ~ 38.4 GHz

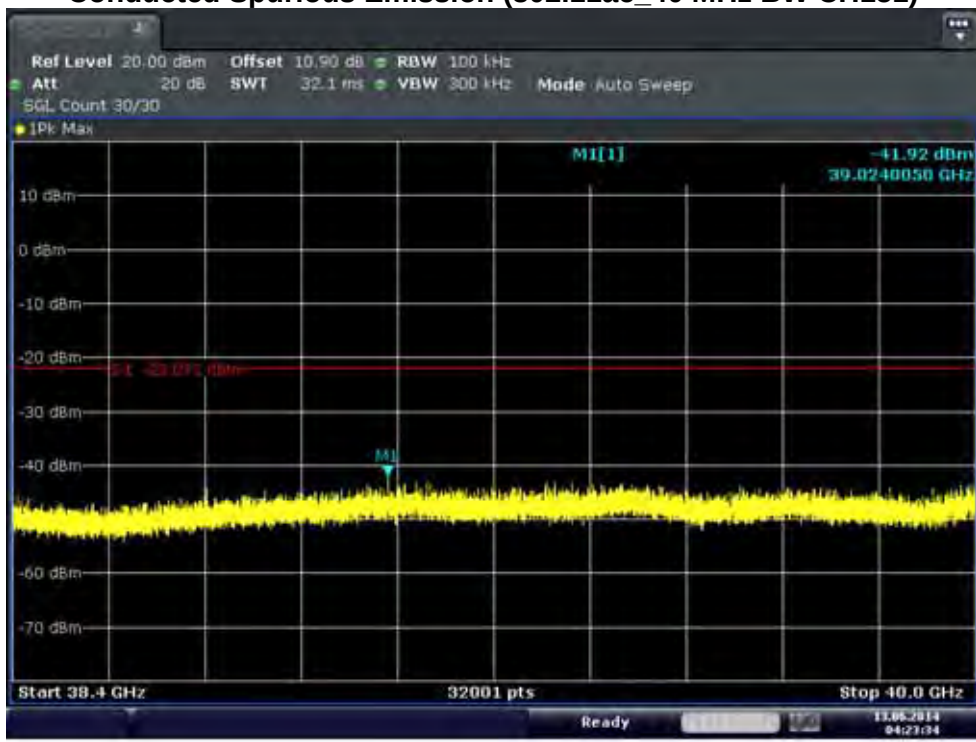
Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

38.4 GHz ~ 40 GHz

Conducted Spurious Emission (802.11ac_40 MHz BW CH151)



8.7 RADIATED MEASUREMENT.

8.7.1 RADIATED SPURIOUS EMISSIONS.

Test Requirements and limit, §15.205, §15.209

Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

■ Test case

2.4 GHz Band

Port	Operating Mode	Mode	Operating Ant.
Monitoring	802.11b	SISO	Ant 0(Worst Case)
	802.11g	MIMO	Ant 0 & 1 & 2(Worst Case)
Service	802.11b/g/n	SISO	Ant 0
			Ant 1
			Ant 2
	802.11g/n	MIMO	Ant 0 & 1
			Ant 0 & 1 & 2(Worst Case)

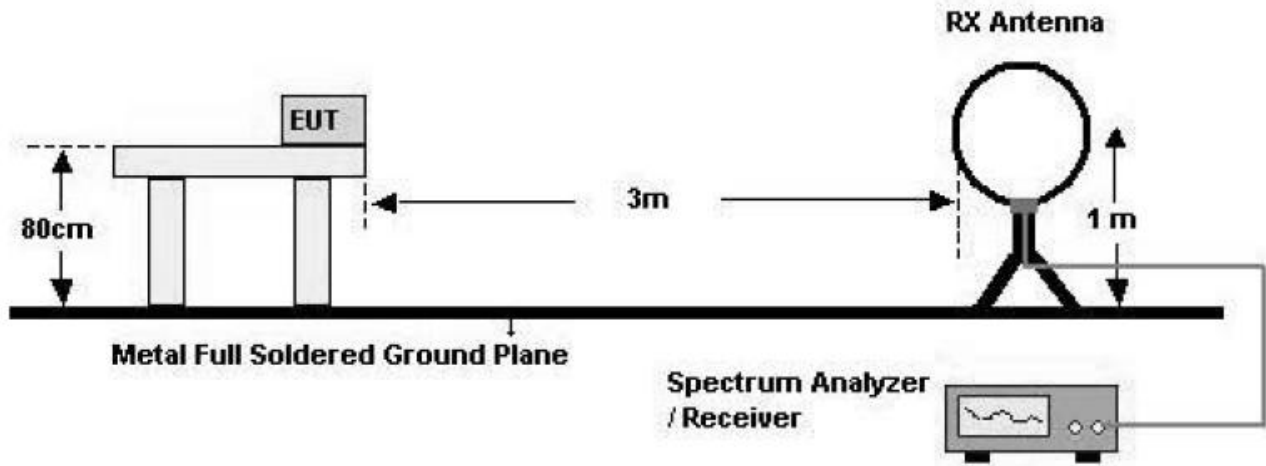
5.8 GHz Band

Port	Mode	Operating Mode	Operating Ant.
Monitoring	802.11a	MIMO	Ant 0 & 1 & 2(Worst Case)
Service	802.11a,n,ac	SISO	Ant 0
			Ant 1
			Ant 2
		MIMO	Ant 0 & 1
			Ant 0 & 1 & 2(Worst Case)

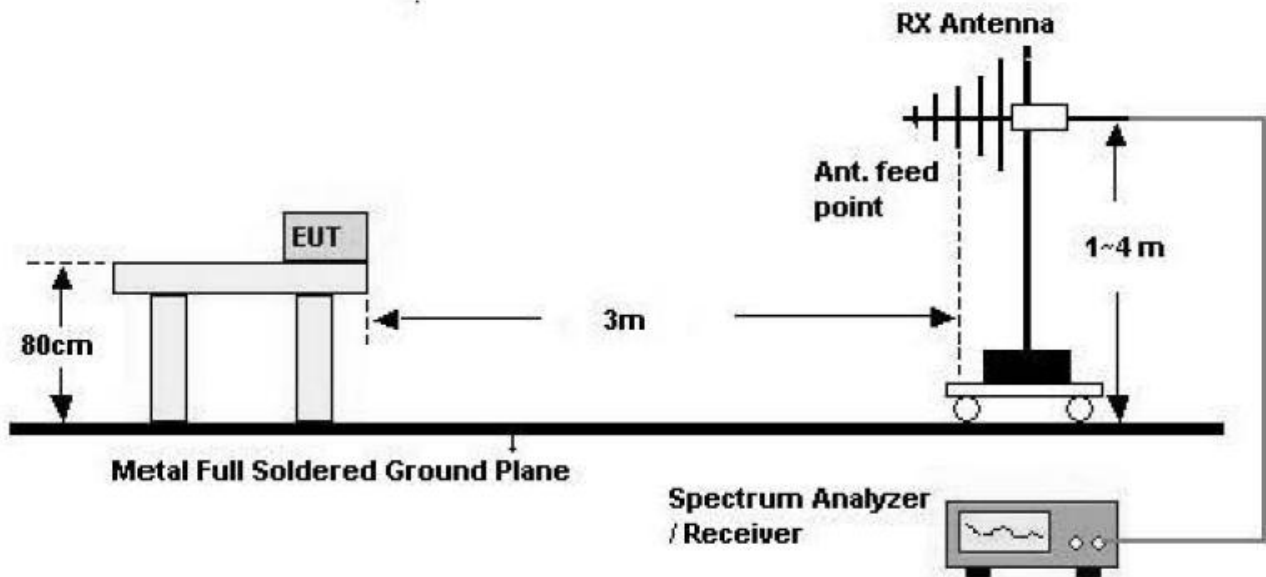
Note : We have done all test case. And we attached the results of only worst case.

Test Configuration

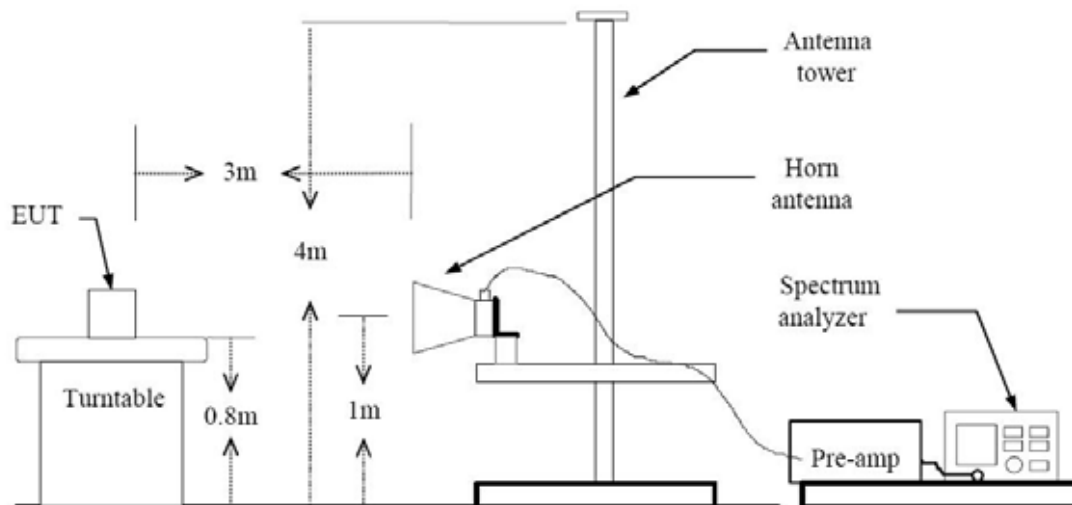
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



TEST PROCEDURE USED

Method 12.1 in KDB 558074, issued 04/09/2013

Spectrum Setting

- Peak

Peak emission levels are measured by setting the instrument as follows:

RBW = cf. Table 1.

VBW $\geq 3 \times$ RBW.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweeps to continue until the trace stabilizes.

(Note that the required measurement time may be longer for low duty cycle applications).

Table 1 —RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

- Average

Set RBW = 1 MHz

Set VBW $\geq 1/T$. (at least 100 times less than the resolution bandwidth, but no less than 10 Hz.)

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Select spectrum analyzer linear display mode.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Note :

1. We used the case 1 for 802.11b mode and the case 2 for 802.11a/g/n_20/n_40/ac_20/ac_40/ac_80 to perform the average filed strength measurements for RSE and radiated band edge test.
2. The actual setting value of VBW for 802.11a/g/n_20/n_40/ac_20/ac_40/ac_80.

Monitoring

Mode	Worst Data rate (Mbps)	T _{on} (ms)	T _{total} (ms)	Duty Cycle (%)	VBW(1/T) (Hz)	The actual setting value of VBW (Hz)
b	1	12.400	13.060	94.95	81	1000
g	6	2.060	2.170	94.93	485	1000
a	6	2.060	2.170	94.93	485	1000

Service

Mode	Worst Data rate (Mbps)	T _{on} (ms)	T _{total} (ms)	Duty Cycle (%)	VBW(1/T) (Hz)	The actual setting value of VBW (Hz)
b	1	12.400	13.060	94.95	81	1000
a	6	2.060	2.170	94.93	485	1000
g	6	2.060	2.170	94.93	485	1000
n_20	6.5	1.920	2.015	95.29	521	1000
n_40	13.5	0.944	1.042	90.60	1059	3000
5.8 GHz band ac_20	6.5	1.920	2.015	95.29	521	1000
ac_40	13.5	0.944	1.042	90.60	1059	3000
ac_80	29.3	0.459	0.488	94.06	2179	3000

TEST RESULTS

9 kHz – 30MHz

Operation Mode: Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB μ V/m	dBm /m	dBm	(H/V)	dB μ V/m	dB μ V/m	dB
No Critical peaks found							

Notes:

1. Measuring frequencies from 9 kHz to the 30MHz.
2. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
3. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
4. Limit line = specific Limits (dB μ V) + Distance extrapolation factor
5. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

TEST RESULTS

Below 1 GHz

Operation Mode: Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB μ V/m	dBm /m	dBm	(H/V)	dB μ V/m	dB μ V/m	dB
No Critical peaks found							

Notes:

1. Measuring frequencies from 30 MHz to the 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Above 1 GHz

Monitoring SISO (Ant 0)

Operation Mode:	802.11 b
Transfer Rate:	1 Mbps
Operating Frequency	2412
Channel No.	01 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4824	48.65	-1.98	V	46.67	73.98	27.31	PK
4824	34.98	-1.98	V	33.00	53.98	20.98	AV
7236	46.63	7.60	V	54.23	73.98	19.75	PK
7236	31.81	7.60	V	39.41	53.98	14.57	AV
4824	48.21	-1.98	H	46.23	73.98	27.75	PK
4824	34.64	-1.98	H	32.66	53.98	21.32	AV
7236	45.92	7.60	H	53.52	73.98	20.46	PK
7236	31.79	7.60	H	39.39	53.98	14.59	AV

Operation Mode:	802.11 b
Transfer Rate:	1 Mbps
Operating Frequency	2437
Channel No.	06 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4874	49.26	-1.92	V	47.34	73.98	26.64	PK
4874	35.56	-1.92	V	33.64	53.98	20.34	AV
7311	46.78	7.38	V	54.16	73.98	19.82	PK
7311	32.72	7.38	V	40.10	53.98	13.88	AV
4874	49.22	-1.92	H	47.30	73.98	26.68	PK
4874	35.48	-1.92	H	33.56	53.98	20.42	AV
7311	46.41	7.38	H	53.79	73.98	20.19	PK
7311	32.61	7.38	H	39.99	53.98	13.99	AV

Operation Mode:	802.11 b
Transfer Rate:	1 Mbps
Operating Frequency	2462
Channel No.	11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	48.52	-1.93	V	46.59	73.98	27.39	PK
4924	34.36	-1.93	V	32.43	53.98	21.55	AV
7386	46.50	7.28	V	53.78	73.98	20.20	PK
7386	31.48	7.28	V	38.76	53.98	15.22	AV
4924	48.49	-1.93	H	46.56	73.98	27.42	PK
4924	34.33	-1.93	H	32.40	53.98	21.58	AV
7386	45.93	7.28	H	53.21	73.98	20.77	PK
7386	31.45	7.28	H	38.73	53.98	15.25	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done 802.11b mode and all data rate. Worst data rate is the lowest data of each mode.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Monitoring MIMO (Ant 0 & 1 & 2)

Operation Mode:	802.11 g
Transfer Rate:	6 Mbps
Operating Frequency	2412
Channel No.	01 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4824	48.60	-1.98	V	46.62	73.98	27.36	PK
4824	34.85	-1.98	V	32.87	53.98	21.11	AV
7236	45.70	7.60	V	53.30	73.98	20.68	PK
7236	31.84	7.60	V	39.44	53.98	14.54	AV
4824	48.40	-1.98	H	46.42	73.98	27.56	PK
4824	34.72	-1.98	H	32.74	53.98	21.24	AV
7236	45.41	7.60	H	53.01	73.98	20.97	PK
7236	31.79	7.60	H	39.39	53.98	14.59	AV

Operation Mode:	802.11 g
Transfer Rate:	6 Mbps
Operating Frequency	2437
Channel No.	06 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4874	58.08	-1.92	V	56.16	73.98	17.82	PK
4874	44.22	-1.92	V	42.30	53.98	11.68	AV
7311	47.63	7.38	V	55.01	73.98	18.97	PK
7311	32.70	7.38	V	40.08	53.98	13.90	AV
4874	57.35	-1.92	H	55.43	73.98	18.55	PK
4874	43.68	-1.92	H	41.76	53.98	12.22	AV
7311	47.20	7.38	H	54.58	73.98	19.40	PK
7311	32.67	7.38	H	40.05	53.98	13.93	AV

Operation Mode:	802.11 g
Transfer Rate:	6 Mbps
Operating Frequency	2462
Channel No.	11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	48.43	-1.93	V	46.50	73.98	27.48	PK
4924	34.36	-1.93	V	32.43	53.98	21.55	AV
7386	45.46	7.28	V	52.74	73.98	21.24	PK
7386	31.50	7.28	V	38.78	53.98	15.20	AV
4924	48.12	-1.93	H	46.19	73.98	27.79	PK
4924	34.30	-1.93	H	32.37	53.98	21.61	AV
7386	45.39	7.28	H	52.67	73.98	21.31	PK
7386	31.46	7.28	H	38.74	53.98	15.24	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done 802.11g mode and all data rate. Worst data rate is the lowest data of each mode.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Monitoring MIMO (Ant 0 & 1 & 2)

Band :	5.8 GHz
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5745 MHz
Channel No.	149 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11490	63.11	-6.10	V	57.01	73.98	16.97	PK
11490	49.04	-6.10	V	42.94	53.98	11.04	AV
11490	62.77	-6.10	H	56.67	73.98	17.31	PK
11490	48.51	-6.10	H	42.41	53.98	11.57	AV

Band :	5.8 GHz
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11570	62.39	-5.57	V	56.82	73.98	17.16	PK
11570	48.94	-5.57	V	43.37	53.98	10.61	AV
11570	62.15	-5.57	H	56.58	73.98	17.40	PK
11570	48.70	-5.57	H	43.13	53.98	10.85	AV

Band :	5.8 GHz
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11650	62.15	-6.63	V	55.52	73.98	18.46	PK
11650	49.12	-6.63	V	42.49	53.98	11.49	AV
11650	62.09	-6.63	H	55.46	73.98	18.52	PK
11650	48.66	-6.63	H	42.03	53.98	11.95	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done 802.11a mode and all data rate. Worst data rate is the lowest data of each mode
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Service SISO (Ant 0)

Operation Mode:	802.11 b
Transfer Rate:	1 Mbps
Operating Frequency	2412
Channel No.	01 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4824	52.76	-1.98	V	50.78	73.98	23.20	PK
4824	47.15	-1.98	V	45.17	53.98	8.81	AV
7236	46.10	7.60	V	53.70	73.98	20.28	PK
7236	33.57	7.60	V	41.17	53.98	12.81	AV
4824	55.53	-1.98	H	53.55	73.98	20.43	PK
4824	51.45	-1.98	H	49.47	53.98	4.51	AV
7236	47.00	7.60	H	54.60	73.98	19.38	PK
7236	34.54	7.60	H	42.14	53.98	11.84	AV

Operation Mode:	802.11 b
Transfer Rate:	1 Mbps
Operating Frequency	2437
Channel No.	06 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4874	53.86	-1.92	V	51.94	73.98	22.04	PK
4874	49.22	-1.92	V	47.30	53.98	6.68	AV
7311	46.56	7.38	V	53.94	73.98	20.04	PK
7311	33.15	7.38	V	40.53	53.98	13.45	AV
4874	56.71	-1.92	H	54.79	73.98	19.19	PK
4874	52.62	-1.92	H	50.70	53.98	3.28	AV
7311	47.28	7.38	H	54.66	73.98	19.32	PK
7311	33.51	7.38	H	40.89	53.98	13.09	AV

Operation Mode:	802.11 b
Transfer Rate:	1 Mbps
Operating Frequency	2462
Channel No.	11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	53.49	-1.93	V	51.56	73.98	22.42	PK
4924	49.30	-1.93	V	47.37	53.98	6.61	AV
7386	45.42	7.28	V	52.70	73.98	21.28	PK
7386	31.50	7.28	V	38.78	53.98	15.20	AV
4924	56.43	-1.93	H	54.50	73.98	19.48	PK
4924	52.81	-1.93	H	50.88	53.98	3.10	AV
7386	45.00	7.28	H	52.28	73.98	21.70	PK
7386	31.63	7.28	H	38.91	53.98	15.07	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done 802.11b mode and all data rate. Worst data rate is the lowest data of each mode.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Service MIMO (Ant 0 & 1 & 2)

Operation Mode:	802.11 g
Transfer Rate:	6 Mbps
Operating Frequency	2412
Channel No.	01 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4824	50.35	-1.98	V	48.37	73.98	25.61	PK
4824	35.31	-1.98	V	33.33	53.98	20.65	AV
7236	45.67	7.60	V	53.27	73.98	20.71	PK
7236	32.00	7.60	V	39.60	53.98	14.38	AV
4824	53.54	-1.98	H	51.56	73.98	22.42	PK
4824	38.66	-1.98	H	36.68	53.98	17.30	AV
7236	45.78	7.60	H	53.38	73.98	20.60	PK
7236	31.81	7.60	H	39.41	53.98	14.57	AV

Operation Mode:	802.11 g
Transfer Rate:	6 Mbps
Operating Frequency	2437
Channel No.	06 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4874	55.46	-1.92	V	53.54	73.98	20.44	PK
4874	41.79	-1.92	V	39.87	53.98	14.11	AV
7311	51.40	7.38	V	58.78	73.98	15.20	PK
7311	36.49	7.38	V	43.87	53.98	10.11	AV
4874	58.22	-1.92	H	56.30	73.98	17.68	PK
4874	44.75	-1.92	H	42.83	53.98	11.15	AV
7311	51.99	7.38	H	59.37	73.98	14.61	PK
7311	36.53	7.38	H	43.91	53.98	10.07	AV

Operation Mode:	802.11 g
Transfer Rate:	6 Mbps
Operating Frequency	2462
Channel No.	11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	52.30	-1.93	V	50.37	73.98	23.61	PK
4924	39.80	-1.93	V	37.87	53.98	16.11	AV
7386	46.78	7.28	V	54.06	73.98	19.92	PK
7386	31.94	7.28	V	39.22	53.98	14.76	AV
4924	55.89	-1.93	H	53.96	73.98	20.02	PK
4924	42.00	-1.93	H	40.07	53.98	13.91	AV
7386	47.46	7.28	H	54.74	73.98	19.24	PK
7386	32.08	7.28	H	39.36	53.98	14.62	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done 802.11g mode and all data rate. Worst data rate is the lowest data of each mode.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Operation Mode: 802.11 n

Transfer Rate: 6.5 Mbps

Operating Frequency: 2412

Channel No. 01 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4824	50.64	-1.98	V	48.66	73.98	25.32	PK
4824	35.58	-1.98	V	33.60	53.98	20.38	AV
7236	45.57	7.60	V	53.17	73.98	20.81	PK
7236	31.64	7.60	V	39.24	53.98	14.74	AV
4824	52.12	-1.98	H	50.14	73.98	23.84	PK
4824	37.88	-1.98	H	35.90	53.98	18.08	AV
7236	45.75	7.60	H	53.35	73.98	20.63	PK
7236	31.65	7.60	H	39.25	53.98	14.73	AV

Operation Mode: 802.11 n

Transfer Rate: 6.5 Mbps

Operating Frequency: 2437

Channel No. 06 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4874	55.37	-1.92	V	53.45	73.98	20.53	PK
4874	41.60	-1.92	V	39.68	53.98	14.30	AV
7311	51.06	7.38	V	58.44	73.98	15.54	PK
7311	35.91	7.38	V	43.29	53.98	10.69	AV
4874	58.47	-1.92	H	56.55	73.98	17.43	PK
4874	43.90	-1.92	H	41.98	53.98	12.00	AV
7311	51.36	7.38	H	58.74	73.98	15.24	PK
7311	36.26	7.38	H	43.64	53.98	10.34	AV

Operation Mode:	802.11 n
Transfer Rate:	6.5 Mbps
Operating Frequency	2462
Channel No.	11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	53.39	-1.93	V	51.46	73.98	22.52	PK
4924	39.97	-1.93	V	38.04	53.98	15.94	AV
7386	46.84	7.28	V	54.12	73.98	19.86	PK
7386	31.80	7.28	V	39.08	53.98	14.90	AV
4924	56.58	-1.93	H	54.65	73.98	19.33	PK
4924	41.95	-1.93	H	40.02	53.98	13.96	AV
7386	47.16	7.28	H	54.44	73.98	19.54	PK
7386	31.91	7.28	H	39.19	53.98	14.79	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done 802.11n mode and all data rate. Worst data rate is the lowest data of each mode.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band : 5.8 GHz

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5745 MHz

Channel No. 149 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11490	68.49	-6.10	V	62.39	73.98	11.59	PK
11490	54.96	-6.10	V	48.86	53.98	5.12	AV
11490	68.33	-6.10	H	62.23	73.98	11.75	PK
11490	54.84	-6.10	H	48.74	53.98	5.24	AV

Band : 5.8 GHz

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5785 MHz

Channel No. 157 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11570	66.65	-5.57	V	61.08	73.98	12.90	PK
11570	53.36	-5.57	V	47.79	53.98	6.19	AV
11570	66.60	-5.57	H	61.03	73.98	12.95	PK
11570	53.24	-5.57	H	47.67	53.98	6.31	AV

Band :	5.8 GHz
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11650	66.35	-6.63	V	59.72	73.98	14.26	PK
11650	52.90	-6.63	V	46.27	53.98	7.71	AV
11650	65.94	-6.63	H	59.31	73.98	14.67	PK
11650	52.77	-6.63	H	46.14	53.98	7.84	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done 802.11a mode and all data rate. Worst data rate is the lowest data of each mode
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	5.8 GHz
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5745 MHz
Channel No.	149 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11490	68.50	-6.10	V	62.40	73.98	11.58	PK
11490	54.04	-6.10	V	47.94	53.98	6.04	AV
11490	68.34	-6.10	H	62.24	73.98	11.74	PK
11490	53.96	-6.10	H	47.86	53.98	6.12	AV

Band :	5.8 GHz
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11570	65.82	-5.57	V	60.25	73.98	13.73	PK
11570	52.33	-5.57	V	46.76	53.98	7.22	AV
11570	65.55	-5.57	H	59.98	73.98	14.00	PK
11570	52.10	-5.57	H	46.53	53.98	7.45	AV

Band :	5.8 GHz
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11650	65.79	-6.63	V	59.16	73.98	14.82	PK
11650	52.61	-6.63	V	45.98	53.98	8.00	AV
11650	65.69	-6.63	H	59.06	73.98	14.92	PK
11650	52.53	-6.63	H	45.90	53.98	8.08	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done 802.11n_20 MHz BW mode and all data rate. Worst data rate is the lowest data of each mode
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna

Band :	5.8 GHz
Operation Mode:	802.11 n_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5755 MHz
Channel No.	151 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11510	65.69	-6.26	V	59.43	73.98	14.55	PK
11510	52.69	-6.26	V	46.43	53.98	7.55	AV
11510	65.28	-6.26	H	59.02	73.98	14.96	PK
11510	52.57	-6.26	H	46.31	53.98	7.67	AV

Band :	5.8 GHz
Operation Mode:	802.11 n_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5795 MHz
Channel No.	159 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11590	65.01	-5.92	V	59.09	73.98	14.89	PK
11590	51.91	-5.92	V	45.99	53.98	7.99	AV
11590	64.65	-5.92	H	58.73	73.98	15.25	PK
11590	51.84	-5.92	H	45.92	53.98	8.06	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done 802.11n_40 MHz BW mode and all data rate. Worst data rate is the lowest data of each mode
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT				www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point			FCC ID: A3LWEA403I IC: 649E-WEA403I

Band : 5.8 GHz

Operation Mode: 802.11 ac_20 MHz BW

Transfer Rate: 6.5 Mbps

Operating Frequency 5745 MHz

Channel No. 149 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	68.07	-6.10	V	61.97	73.98	12.01	PK
11490	53.95	-6.10	V	47.85	53.98	6.13	AV
11490	67.91	-6.10	H	61.81	73.98	12.17	PK
11490	53.78	-6.10	H	47.68	53.98	6.30	AV

Band : 5.8 GHz

Operation Mode: 802.11 ac_20 MHz BW

Transfer Rate: 6.5 Mbps

Operating Frequency 5785 MHz

Channel No. 157 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	62.27	-5.57	V	56.70	73.98	17.28	PK
11570	48.70	-5.57	V	43.13	53.98	10.85	AV
11570	62.12	-5.57	H	56.55	73.98	17.43	PK
11570	48.66	-5.57	H	43.09	53.98	10.89	AV

Band :	5.8 GHz
Operation Mode:	802.11 ac_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	63.00	-6.63	V	56.37	73.98	17.61	PK
11650	49.17	-6.63	V	42.54	53.98	11.44	AV
11650	62.52	-6.63	H	55.89	73.98	18.09	PK
11650	49.08	-6.63	H	42.45	53.98	11.53	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done 802.11ac_20 MHz BW mode and all data rate. Worst data rate is the lowest data of each mode
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. In case of 802.11ac, we applied the limit of spurious emissions according to KDB644545 D01 v01r02 dated October 31, 2013.

Band : 5.8 GHz

Operation Mode: 802.11 ac_40 MHz BW

Transfer Rate: MCS0

Operating Frequency 5755 MHz

Channel No. 151 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	63.40	-6.26	V	57.14	73.98	16.84	PK
11510	50.63	-6.26	V	44.37	53.98	9.61	AV
11510	62.97	-6.26	H	56.71	73.98	17.27	PK
11510	50.42	-6.26	H	44.16	53.98	9.82	AV

Band : 5.8 GHz

Operation Mode: 802.11 ac_40 MHz BW

Transfer Rate: MCS0

Operating Frequency 5795 MHz

Channel No. 159 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	63.09	-5.92	V	57.17	73.98	16.81	PK
11590	49.96	-5.92	V	44.04	53.98	9.94	AV
11590	62.43	-5.92	H	56.51	73.98	17.47	PK
11590	49.85	-5.92	H	43.93	53.98	10.05	AV

Band :	UNII 4
Operation Mode:	802.11 ac _80 MHz BW
Transfer Rate:	MCS0
Operating Frequency	5775 MHz
Channel No.	155 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11550	62.43	-5.97	V	56.46	73.98	17.52	PK
11550	50.81	-5.97	V	44.84	53.98	9.14	AV
11550	62.27	-5.97	H	56.30	73.98	17.68	PK
11550	50.77	-5.97	H	44.80	53.98	9.18	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done 802.11ac_40, 80 MHz BW mode and all data rate. Worst data rate is the lowest data of each mode
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. In case of 802.11ac, we applied the limit of spurious emissions according to KDB644545 D01 v01r02 dated October 31, 2013.

8.7.2 RECEIVER SPURIOUS EMISSIONS

IC Rule(s) RSS-GEN
Test Requirements: Blow the table
Operating conditions: Under normal test conditions
Method of testing: Radiated

S/A. Settings: F < 1 GHz: RBW: 120 kHz, VBW: 300 kHz (Quasi Peak)
 F > 1 GHz: RBW: 1 MHz, VBW: 1 MHz (Peak)
Mode of operation: Receive

Frequency (MHz)	Field Strength (microvolts/m at 3 meters)
30 – 88	100
88 - 216	150
216 – 960	200
Above 960	500

Operation Mode: Receive:

30 MHz ~ 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBμV	dB /m	dB	(H/V)	dBμV/m	dBμV/m	dB
No Critical peaks found							

Above 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBμV	dB /m	dB	(H/V)	dBμV/m	dBμV/m	dB
No Critical peaks found							

8.7.3 RADIATED RESTRICTED BAND EDGES

Test Requirements and limit, §15.247(d) §15.205, §15.209

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a) (See section 15.205(c)).

Monitoring SISO (Ant 0)

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2412 MHz, 2462 MHz
Channel No.	01 Ch, 11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
2390.0	29.46	31.47	H	60.93	73.98	13.05	PK
2390.0	18.28	31.47	H	49.75	53.98	4.23	AV
2390.0	29.68	31.47	V	61.15	73.98	12.83	PK
2390.0	18.52	31.47	V	49.99	53.98	3.99	AV
2483.5	28.80	31.46	H	60.26	73.98	13.72	PK
2483.5	18.08	31.46	H	49.54	53.98	4.44	AV
2483.5	29.27	31.46	V	60.73	73.98	13.25	PK
2483.5	18.31	31.46	V	49.77	53.98	4.21	AV

Monitoring MIMO (Ant 0 & 1 & 2)

Operation Mode:	802.11g
Transfer Rate:	6 Mbps
Operating Frequency	2412 MHz, 2462 MHz
Channel No.	01 Ch, 11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
2390.0	36.08	31.47	H	67.55	73.98	6.43	PK
2390.0	19.19	31.47	H	50.66	53.98	3.32	AV
2390.0	36.20	31.47	V	67.67	73.98	6.31	PK
2390.0	19.47	31.47	V	50.94	53.98	3.04	AV
2483.5	35.13	31.46	H	66.59	73.98	7.39	PK
2483.5	18.52	31.46	H	49.98	53.98	4.00	AV
2483.5	35.32	31.46	V	66.78	73.98	7.20	PK
2483.5	18.78	31.46	V	50.24	53.98	3.74	AV

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss
2. We have done 802.11b/g mode and all data rate. Worst data rate is the lowest data of each mode.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Service SISO (Ant 0)

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2412 MHz, 2462 MHz
Channel No.	01 Ch, 11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
2390.0	26.67	31.47	H	58.14	73.98	15.84	PK
2390.0	15.20	31.47	H	46.67	53.98	7.31	AV
2390.0	25.38	31.47	V	56.85	73.98	17.13	PK
2390.0	14.14	31.47	V	45.61	53.98	8.37	AV
2483.5	29.18	31.46	H	60.64	73.98	13.34	PK
2483.5	18.79	31.46	H	50.25	53.98	3.73	AV
2483.5	27.91	31.46	V	59.37	73.98	14.61	PK
2483.5	17.62	31.46	V	49.08	53.98	4.90	AV

Service MIMO (Ant 0 & 1 & 2)

Operation Mode:	802.11g
Transfer Rate:	6 Mbps
Operating Frequency	2412 MHz, 2462 MHz
Channel No.	01 Ch, 11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
2390.0	37.87	31.47	H	69.34	73.98	4.64	PK
2390.0	17.25	31.47	H	48.72	53.98	5.26	AV
2390.0	36.47	31.47	V	67.94	73.98	6.04	PK
2390.0	17.02	31.47	V	48.49	53.98	5.49	AV
2483.5	35.56	31.46	H	67.02	73.98	6.96	PK
2483.5	18.69	31.46	H	50.15	53.98	3.83	AV
2483.5	34.45	31.46	V	65.91	73.98	8.07	PK
2483.5	17.36	31.46	V	48.82	53.98	5.16	AV

Operation Mode:	802.11n
Transfer Rate:	6.5 Mbps
Operating Frequency	2412 MHz, 2462 MHz
Channel No.	01 Ch, 11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
2390.0	38.93	31.47	H	70.40	73.98	3.58	PK
2390.0	19.09	31.47	H	50.56	53.98	3.42	AV
2390.0	37.65	31.47	V	69.12	73.98	4.86	PK
2390.0	18.01	31.47	V	49.48	53.98	4.50	AV
2483.5	39.17	31.46	H	70.63	73.98	3.35	PK
2483.5	19.33	31.46	H	50.79	53.98	3.19	AV
2483.5	37.82	31.46	V	69.28	73.98	4.70	PK
2483.5	18.22	31.46	V	49.68	53.98	4.30	AV

Band: 5.8 GHz

Operation Mode: 802.11ac_20 MHz

Transfer Rate: 6.5 Mbps

Operating Frequency: 5825 MHz

Channel No. 165 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp Gain [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
*5850	53.74	11.37	H	65.11	68.20	3.09	PK
*5850	53.78	11.37	V	65.15	68.20	3.05	PK

Band: 5.8 GHz

Operation Mode: 802.11ac_40 MHz

Transfer Rate: 13.5 Mbps

Operating Frequency: 5795 MHz

Channel No. 159 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp Gain [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
*5850	53.10	11.37	H	64.47	68.20	3.73	PK
*5850	53.32	11.37	V	64.69	68.20	3.51	PK

Band: 5.8 GHz

Operation Mode: 802.11ac_80 MHz

Transfer Rate: 29.3 Mbps

Operating Frequency: 5775 MHz

Channel No. 155 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp Gain [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
*5850	53.52	11.37	H	64.89	68.20	3.31	PK
*5850	53.77	11.37	V	65.14	68.20	3.06	PK

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss
2. We have done 802.11b/g/n/ac mode and all data rate. Worst data rate is the lowest data of each mode.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
4. In case of 5.8 GHz band 802.11ac, we applied the limit of spurious emissions according to KDB644545 D01 v01r02 dated October 31, 2013.
5. '*' is radiated band edge test frequency(not restricted band emissions).

8.8 POWERLINE CONDUCTED EMISSIONS

Test Requirements and limit, §15.207

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.
5. We are performed the AC Power Line Conducted Emission test for 11 Mbps, Ch.6 and 802.11b.
Because 802.11b mode is worst case.

RESULT PLOTS

Conducted Emissions (Line 1)

EMI Auto Test(2)

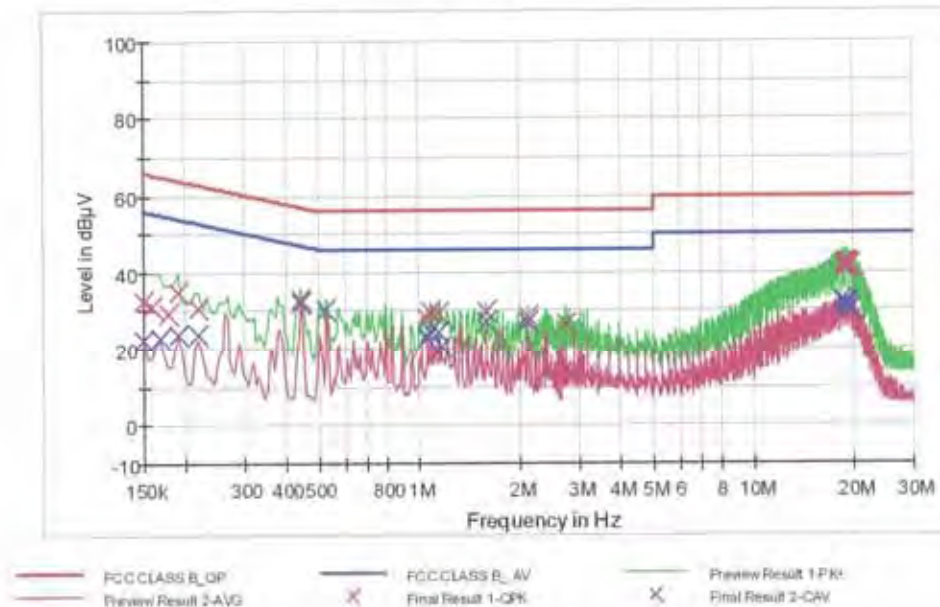
1 / 2

HCT TEST Report

Common Information

EUT: WEA403I
 Manufacturer: SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions: WLAN MODE(DTS)
 Operator Name: JS LEE

FCC CLASS B



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	32.6	9.000	Off	L1	9.7	33.4	66.0
0.159000	31.2	9.000	Off	L1	9.7	34.3	65.5
0.177000	29.2	9.000	Off	L1	9.7	35.4	64.6
0.190500	34.8	9.000	Off	L1	9.7	29.2	64.0
0.217500	30.7	9.000	Off	L1	9.7	32.2	62.9
0.442500	33.2	9.000	Off	L1	9.7	23.8	57.0
1.058000	27.7	9.000	Off	L1	9.7	28.3	56.0
1.080500	29.7	9.000	Off	L1	9.7	26.3	56.0
1.143500	29.4	9.000	Off	L1	9.8	26.6	56.0
1.584500	29.8	9.000	Off	L1	9.8	26.2	56.0
2.111000	28.4	9.000	Off	L1	9.9	27.6	56.0
2.727500	26.5	9.000	Off	L1	9.9	29.5	56.0
18.545000	42.2	9.000	Off	L1	10.8	17.8	60.0
18.707000	42.2	9.000	Off	L1	10.8	17.8	60.0
18.774500	40.9	9.000	Off	L1	10.8	19.1	60.0
19.026500	42.0	9.000	Off	L1	10.9	18.0	60.0

5/23/2014

9:06:25

FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

EMI Auto Test(2)

2/2

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
19.112000	41.8	9.000	Off	L1	10.9	18.2	60.0
19.422500	41.6	9.000	Off	L1	10.9	18.4	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	22.2	9.000	Off	L1	9.7	33.8	56.0
0.160000	22.8	9.000	Off	L1	9.7	32.3	55.1
0.190500	23.7	9.000	Off	L1	9.7	30.3	54.0
0.217500	23.6	9.000	Off	L1	9.7	29.3	52.9
0.442500	32.0	9.000	Off	L1	9.7	15.0	47.0
0.527000	30.2	9.000	Off	L1	9.7	15.8	46.0
1.058000	23.0	9.000	Off	L1	9.7	23.0	46.0
1.080500	24.8	9.000	Off	L1	9.7	21.2	46.0
1.143500	24.4	9.000	Off	L1	9.8	21.6	46.0
1.166000	20.6	9.000	Off	L1	9.8	25.4	46.0
1.584500	26.8	9.000	Off	L1	9.8	19.2	46.0
2.115500	26.9	9.000	Off	L1	9.9	19.1	46.0
18.311000	32.6	9.000	Off	L1	10.8	17.4	50.0
18.707000	31.7	9.000	Off	L1	10.8	18.3	50.0
18.779000	32.0	9.000	Off	L1	10.8	18.0	50.0
19.035500	30.6	9.000	Off	L1	10.9	19.4	50.0
19.112000	31.7	9.000	Off	L1	10.9	18.3	50.0
19.422500	30.1	9.000	Off	L1	10.9	19.9	50.0

5/23/2014

9:06:25

FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

Conducted Emissions (Line 2)

EMI Auto Test(2)

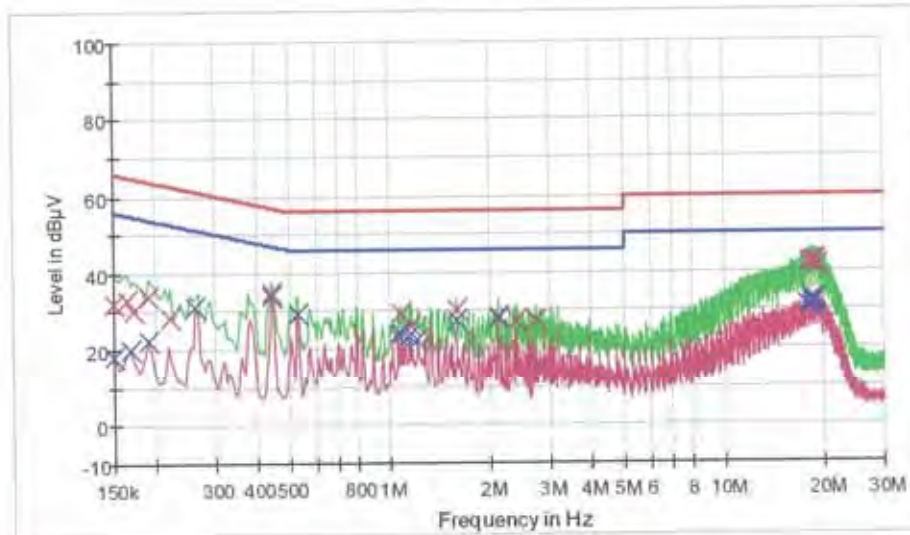
1 / 2

HCT TEST Report

Common Information

EUT: WEA403I
 Manufacturer: SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions: WLAN MODE(DTS)
 Operator Name: JS LEE

FCC CLASS B



— FCCCLASS B_LOP — Preview Result 2-AVG
 — FCCCLASS B_AV — Final Result 1-QPK
 X Preview Result 1-PK X Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	32.3	9.000	Off	N	9.7	33.7	66.0
0.163500	33.0	9.000	Off	N	9.7	32.3	65.3
0.172500	30.1	9.000	Off	N	9.7	34.7	64.8
0.190500	34.0	9.000	Off	N	9.7	30.0	64.0
0.222000	28.4	9.000	Off	N	9.7	34.3	62.7
0.442500	34.6	9.000	Off	N	9.7	22.4	57.0
1.060500	29.1	9.000	Off	N	9.8	26.9	56.0
1.148000	26.1	9.000	Off	N	9.8	29.9	56.0
1.584500	30.3	9.000	Off	N	9.8	25.7	56.0
2.111000	28.4	9.000	Off	N	9.9	27.6	56.0
2.381000	27.3	9.000	Off	N	9.9	28.7	56.0
2.727500	27.3	9.000	Off	N	9.9	28.7	56.0
18.005000	42.1	9.000	Off	N	10.7	17.9	60.0
18.320000	42.5	9.000	Off	N	10.7	17.5	60.0
18.477500	42.1	9.000	Off	N	10.7	17.9	60.0
18.549500	42.3	9.000	Off	N	10.8	17.7	60.0

5/23/2014

9:17:05

FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

EMI Auto Test(2)

2 / 2

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
18.792500	42.6	9.000	Off	N	10.8	17.4	60.0
19.031000	41.4	9.000	Off	N	10.8	18.6	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	18.2	9.000	Off	N	9.7	37.9	56.0
0.168000	20.1	9.000	Off	N	9.7	35.0	55.1
0.190500	22.5	9.000	Off	N	9.7	31.5	54.0
0.262500	30.9	9.000	Off	N	9.7	20.5	51.4
0.442500	33.7	9.000	Off	N	9.7	13.3	47.0
0.531500	29.3	9.000	Off	N	9.7	16.7	46.0
1.058000	23.8	9.000	Off	N	9.8	22.2	46.0
1.080500	24.1	9.000	Off	N	9.8	21.9	46.0
1.143500	23.3	9.000	Off	N	9.8	22.7	46.0
1.208500	22.3	9.000	Off	N	9.8	23.7	46.0
1.584500	27.7	9.000	Off	N	9.8	18.3	46.0
2.115500	27.9	9.000	Off	N	9.9	18.1	46.0
17.838500	31.1	9.000	Off	N	10.7	18.9	50.0
18.153500	30.6	9.000	Off	N	10.7	19.4	50.0
18.320000	32.6	9.000	Off	N	10.7	17.4	50.0
18.477500	31.5	9.000	Off	N	10.7	18.5	50.0
18.545000	31.7	9.000	Off	N	10.8	18.3	50.0
18.792500	32.6	9.000	Off	N	10.8	17.4	50.0

5/23/2014

9:17:05

FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1406-F029	Date of Issue: June 18, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA403I	IC: 649E-WEA403I

9. LIST OF TEST EQUIPMENT

9.1 LIST OF TEST EQUIPMENT(Conducted Test)

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Calibration Due	Serial No.
Rohde & Schwarz	ENV216/ LISN	01/29/2014	Annual	01/29/2015	100073
Rohde & Schwarz	FSV40/Spectrum Analyzer	06/09/2014	Annual	06/09/2015	1307.9002K40-100931-NK
Agilent	E4440A/ Spectrum Analyzer	04/09/2014	Annual	04/09/2015	US45303008
Agilent	N9020A/ SIGNAL ANALYZER	05/23/2014	Annual	05/23/2015	MY51110063
Agilent	N1911A/Power Meter	01/24/2014	Annual	01/24/2015	MY45100523
Agilent	N1921A /POWER SENSOR	07/11/2013	Annual	07/11/2014	MY45241059
Hewlett Packard	11636B/Power Divider	10/22/2013	Annual	10/22/2014	11377
Agilent	87300B/Directional Coupler	12/18/2013	Annual	12/18/2014	3116A03621
Hewlett Packard	11667B / Power Splitter	01/27/2014	Annual	01/27/2015	10545
DIGITAL	EP-3010 /DC POWER SUPPLY	10/29/2013	Annual	10/29/2014	3110117
ITECH	IT6720 / DC POWER SUPPLY	11/05/2013	Annual	11/05/2014	010002156287001199
Agilent	8493C / Attenuator(10 dB)	07/24/2013	Annual	07/24/2014	76649
WEINSCHEL	2-3 / Attenuator(3 dB)	10/28/2013	Annual	10/28/2014	BR0617
NAENG YEOL CO.LTD	NY-THR18750/ Temp & Humidity Chamber	10/30/2013	Annual	10/30/2014	NY-200912201A
Note: This equipment (FSV40/ SIGNAL ANALYZER) is used 05/15/2014 ~ 06/07/2014 and 06/10/2014 ~ 06/14/2014. Actual calibration date of FSV40 is 06/09/2014.					

9.2 LIST OF TEST EQUIPMENT(Radiated Test)

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Calibration Due	Serial No.
Schwarzbeck	VULB 9160/ TRILOG Antenna	12/17/2012	Biennial	12/17/2014	3150
Rohde & Schwarz	ESCI / EMI TEST RECEIVER	01/24/2014	Annual	01/24/2015	100584
HD	MA240/ Antenna Position Tower	N/A	N/A	N/A	556
EMCO	1050/ Turn Table	N/A	N/A	N/A	114
HD GmbH	HD 100/ Controller	N/A	N/A	N/A	13
HD GmbH	KMS 560/ SlideBar	N/A	N/A	N/A	12
Rohde & Schwarz	SCU-18/ Signal Conditioning Unit	09/10/2013	Annual	09/10/2014	10094
CERNEX	CBL18265035 / POWER AMP	07/24/2013	Annual	07/24/2014	22966
CERNEX	CBL26405040 / POWER AMP	04/04/2014	Annual	04/04/2015	19660
Schwarzbeck	BBHA 9120D/ Horn Antenna	07/05/2013	Biennial	07/05/2015	1151
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	10/30/2012	Biennial	10/30/2014	BBHA9170124
Rohde & Schwarz	FSV40/Spectrum Analyzer	06/09/2014	Annual	06/09/2015	1307.9002K40-100931-NK
Rohde & Schwarz	FSP / Spectrum Analyzer	01/24/2014	Annual	01/24/2015	839117/011
Wainwright Instrument	WHF3.0/18G-10EF / High Pass Filter	02/03/2014	Annual	02/03/2015	F6
Wainwright Instrument	WHNX6.0/26.5G-6SS / High Pass Filter	04/09/2014	Annual	04/09/2015	1
Wainwright Instrument	WHNX7.0/18G-8SS / High Pass Filter	04/04/2014	Annual	04/04/2015	29
Wainwright Instrument	WRCJ2400/2483.5-2370/2520-60/14SS/ Band Reject Filter	06/24/2013	Annual	06/24/2014	1
Rohde & Schwarz	LOOP ANTENNA	08/14/2012	Biennial	08/14/2014	100179
CERNEX	CBL06185030 / POWER AMP	07/24/2013	Annual	07/24/2014	22965
CERNEX	CBLU1183540 / POWER AMP	07/24/2013	Annual	07/24/2014	22964
Note: This equipment (FSV40/ SIGNAL ANALYZER) is used 05/15/2014 ~ 06/07/2014 and 06/10/2014 ~ 06/14/2014. Actual calibration date of FSV40 is 06/09/2014.					