

1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan Tel : 81-50-5433-4157

#### WLAN Channel 12 & 13 Declaration Letter

To whom it may concern:

We have declared below featured for FCC equipment authorization in regard to 802.11b/g/n channel 12 & 13 operating capability for FCC ID: APYHRO00307.

Please	
check	
	Product hardware does not have the capability to operate on channel 12 & 13
	Product hardware has the capability to operate on channel 12 & 13.
	However, these 2 channels will be disabled via software and user will not able to
	enable these 2 channels
	Product hardware has the capability to operate on channel 12 & 13.
	And meeting KDB 594280 D01 requirement.
	Pls explain detail here.
	The control of the WLAN function equipped in this device is not dependent on the
	information from the Access Point but is performed by "MCC" and "MNC" directly
	acquired from the network carrier and this operation is according to clause IV.B.1 (b) -
	(2) of the KDPE0/290 D01
	(2) of the KDB334280 bb1.
	Refer to a separate submitted report for actual operation of this device.
	12-2_WLAN_Software configuration information for restriction_APYHR000307.pdf
	Others
	Pls explain detail here.
<u></u>	

Company Name: Sharp Corporation

Address : 1 Takumi-cho, Sakai-ku, Sakai City Osaka Japan 590-8522 Name / Title : Taihei Ohtsuka / General Manager, Quality Promotion Division, Quality and Environmental Promotion Office

Signature :

Email : fcc-contact@sharp.co.jp Date : March 11, 2022 (TCB)

# Verification report of control algorithm is accordance with KDB594280

# FCC ID : APYHRO00307

Date: 2022 February-17th

### Channel Control Algorithm Flowchart



### Scan Waveform on 2.4GHz(Country Code=default country code, US)

#### [CC=default country code]



1-11ch = Enabled 12-13ch = Disabled → Operation Check Result = OK

#### [CC="US"]



1-11ch = Enabled 12-13ch = Disabled ⇒ Operation Check Result = OK

## Scan Waveform on 2.4GHz(Country Code=JP, FR)

#### [CC="JP"]



1-13ch = Enabled ⇒ Operation Check Result = OK

#### [CC="FR"]



#### 1-13ch = Enabled ⇒ Operation Check Result = OK

### Channel Control Algorithm Flowchart



# Verification Pattern (Operation check result)

### Check Result = OK

🥘 Result.txt - メモ帳

ファイル(E) 編集(E) 書式(Q) 表示(V) ヘルプ(H)

02-15 19:26:22.928 D/wpa\_supplicant(18749): wpa\_driver\_nl80211\_driver\_cmd COUNTRY 03 len = 0, 4096 02-15 19:26:22.934 D/wpa\_supplicant(18749): nl80211: Regulatory information - country=03 (DFS-FCC)

> 1; Terminal start-up and Wi-Fi startup, Start default Country Code (ex."03" : Ch-12,13 are disabled) Effective frequency range = 2402-2472MHz(1-11ch=enable,12-13ch=disable)

02-15 19:26:25.738 D/LocaleTracker-0( 2739): updateLocale: countryIso = jp, countryIsoDebugInfo = OperatorNumeric(44051): MccTable.countryCodeForMcc("440") 02-15 19:26:25.741 D/wpa\_supplicant(18749): wpa\_driver\_n180211\_driver\_cmd COUNTRY JP len = 0, 4096 02-15 19:26:25.743 D/wpa\_supplicant(18749): n180211: Regulatory information - country=JP (DFS-JP)



2; Get MCC from Cellular network (Japan Operator-C),

Change Country Code(default country code -> "JP") (Ch-12,13 are enabled)

Effective frequency range = 2402-2482MHz(1-13ch=enable)

2-15 19:26:27.769 I/DeviceStatusMonitor(12430): DeviceStatusMonitor.notifyIfNetworkChanged():180 notifyIfNetworkChanged: newState = NO\_CONNECTION, airplaneModeOn = true, notifyAnyway = false

3; Airplane mode transition (MCC : "JP"->"NULL")

02-15 19:26:29.639 D/wpa\_supplicant(18879): wpa\_driver\_n180211\_driver\_cmd COUNTRY 03 len = 0, 4096 02-15 19:26:29.640 D/wpa\_supplicant(18879): n180211: Regulatory information - country=03 (DFS-FCC)

4; Lost MCC from Cellular network (with Outside of the Cellular network),

- (4) Change Country Code ("JP" -> default country code) (Ch-12,13 are disabled)
  - Effective frequency range = 2402-2472MHz(1-11ch=enable,12-13ch=disable)

02-15 19:26:32.680 D/LocaleTracker-0( 2739): updateLocale: countryIso = jp, countryIsoDebugInfo = OperatorNumeric(31010): MccTable.countryCodeForMcc("310") 02-15 19:26:32.685 D/wpa\_supplicant(18879): wpa\_driver\_n180211\_driver\_cmd COUNTRY US len = 0, 4096

02-15 19:26:32.687 D/wpa\_supplicant(18879): n180211: Regulatory information - country=US (DFS-FCC)



5; Airplane mode Release and Get MCC from Cellular network (US Operator-A\*) \*Base station simulator

Change Country Code (default country code -> "US")(Ch-12,13 are disabled)

Effective frequency range = 2402-2472MHz(1-11ch=enable,12-13ch=disable)