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## ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

## INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT DFS TEST REPORT

Sharp Corporation, Mobile Communication B.U.

Applicant: 2-13-1, Hachihonmatsu-lida, Higashi-hiroshima-shi,

Hiroshima 739-0192, Japan

**Sharp Corporation** Manufacturer:

1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan

**Product Name: Smart Phone** 

**Report Number:** T190304W03-RP6

FCC ID: APYHRO00272

**FCC Rule Part:** §15.407, Cat: NII

Issue Date: Mar. 26, 2019

Date of Test: Mar. 05, 2019~Mar. 13, 2019

Date of EUT Received: Mar. 05, 2019

Compliance Certification Services Inc.Wugu Lab.

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Tai-Issued by:

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The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report. The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).

Tested By:

Wei Chang / Engineer

Kevin Tsai / Deputy Manager





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# **Revision History**

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
T190304W03-RP6	Rev.00	Initial creation of document	All	Mar. 26, 2019	Violetta Tang

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## **GENERAL INFORMATION**

## 1.1 Product Description

#### General:

Product Name:	Smart Phone
Hardware Version:	DVT
Software Version:	N/A
Power Supply:	3.85V from Rechargeable Li-ion Battery

#### WLAN 5GHz:

эдпг.					
Wi-Fi	Frequency Range	Channels	Avg. Power (dBm)	Modulation Technology	
	5180~5240	4	13.94		
11a_20	5260~5320	4	13.82	OFDM	
	5500~5700	11	13.67		
11n HT/	5180~5240	4	HT: 16.98 (Worst Case)		
ac_VHT	5260~5320	4	HT: 16.93 (Worst Case)	OFDM	
20M	5500~5700	11	HT: 16.91 (Worst Case)		
11n HT/	5190~5230	2	HT: 16.97 (Worst Case)		
ac_VHT	5270~5310	2	HT: 16.85 (Worst Case)	OFDM	
40M	5510~5670	5	HT: 16.80 (Worst Case)		
44	5210	1	14.37		
11ac VHT80M	5290	1	14.42	OFDM	
VIIIOOW	5530~5610	2	16.35		
Modulation Type		64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only			
Transition Rate:		802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 - 144.4Mbps 802.11 n_40MHz: 13.5 - 300.0Mbps 802.11 ac_20MHz: 6.5 - 173.3Mbps 802.11 ac_40MHz: 13.5 - 400.0Mbps 802.11 ac_80MHz: 29.3 - 866.7Mbps			
Antenna Designation:		Inverted-F Antenna, 5150~5250MHz Gain: -0.3dBi (ANT0) / -2.8dBi (ANT1) 5250~5350MHz Gain: -0.3dBi (ANT0) / -2.8dBi (ANT1) 5470~5725MHz Gain: -0.1dBi (ANT0) / -2.2dBi (ANT1)			

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## 1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

FCC KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

Note: All test items have been performed and record as per the above standards.

## **Test Facility**

Compliance Certification Services Inc. Wugu Lab. No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) (TAF code 1309) FCC Designation number: TW1309

### Special Accessories

There are no special accessories used while test was conducted.

## **Equipment Modifications**

There was no modification incorporated into the EUT.

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## **SUMMARY OF TEST RESULT**

FCC Rules	Description Of Test	Result
§15.407(h)	TPC and DFS Measurement	Compliant

#### MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
TPC and DFS Measurement	+/- 123.36 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC=+/- 0.2%

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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#### TPC AND DFS MEASUREMENT

## **TPC: Standard Applicable**

According to §15.407(h)(1), Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

**4.1.1. Result**: N/A, The output power is less than 500mW.

#### **DFS: Standard Applicable** 4.2.

According to §15.407(h)(2) and FCC KDB 905462 D02, Radar Detection Function of Dynamic Frequency Selection (DFS).

Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems. Operators shall only use equipment with a DFS mechanism that is turned on when operating in these bands. The device must sense for radar signals at 100 percent of its emission bandwidth. The minimum DFS detection threshold for devices with a maximum e.i.r.p. of 200 mW to 1 W is -64 dBm. For devices that operate with less than 200 mW e.i.r.p. and a power spectral density of less than 10 dBm in a 1 MHz band, the minimum detection threshold is −62 dBm. The detection threshold is the received power averaged over 1 microsecond referenced to a 0 dBi antenna. For the initial channel setting, the manufacturers shall be permitted to provide for either random channel selection or manual channel selection.

- (i) Operational Modes. The DFS requirement applies to the following operational modes:
- (A) The requirement for channel availability check time applies in the master operational mode.
- (B) The requirement for channel move time applies in both the master and slave operational modes.
- (ii) Channel Availability Check Time. A U-NII device shall check if there is a radar system already operating on the channel before it can initiate a transmission on a channel and when it has to move to a new channel. The U-NII device may start using the channel if no radar signal with a power level greater than the interference threshold values listed in paragraph (h)(2) of this section, is detected within 60 seconds.

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(iii) Channel Move Time. After a radar's presence is detected, all transmissions shall cease on the operating channel within 10 seconds. Transmissions during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. In addition, intermittent management and control signals can be sent during the remaining time to facilitate vacating the operating channel.

(iv) Non-occupancy Period. A channel that has been flagged as containing a radar system, either by a channel availability check or in-service monitoring, is subject to a non-occupancy period of at least 30 minutes. The non-occupancy period starts at the time when the radar system is detected.



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#### 4.2.1. Limit

Table 1: Applicability of DFS requirements prior to use of a channel

	Operational Mode			
Requirement	Master	Client(without radar detection)	Client(with radar detection)	
Non-occupancy Period	Yes	Yes	Yes	
DFS Detection Threshold	Yes	Not required	Yes	
Channel Availability Check Time	Yes	Not required	Not required	
U-NII Detection Bandwidth	Yes	Not required	Yes	

Table 2: Applicability of DFS requirements during normal operation

	Operational Mode		
Requirement	Master Device or Client with Radar Detection	Client Without Radar Detection	
DFS Detection Threshold	Yes	Not required	
Cannel Closing Transmission time	Yes	Yes	
Channel Move time	Yes	Yes	
U-NII Detection Bandwidth	Yes	Not required	

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Additional requirements for devices with multiple bandwidth mode	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Band- width and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value
	(See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and	-62 dBm
power spectral density < 10 dBm/MHz	
EIRP < 200 milliwatt that do not meet the power spectral	-64 dBm
density requirement	

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911

Devices	DFS Threshold	
Devices with an e.i.r.p. < 200 mW AND a	-62 dBm	
Power Spectral Density < 10 dBm/MHz		
Devices with	-64 dBm	
$200 \text{ mW} \le e.i.r.p. \le 1 \text{ W}$		
N-4- Th- 1-4-4-4-4-1-11		

Note: The detection threshold power is the received power, averaged over a 1-microsecond reference to a 0 dBi antenna.

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#### Table 4: DFS Response requirement values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds
	See Note 1.
Channel Closing Transmission Time	200 milliseconds + an
	aggregate of 60
	milliseconds over
	remaining 10 second
	period.
	See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-
	NII 99% transmission
	power bandwidth. See
	Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

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## **Table 5: Radar Test Waveforms Short Pulse Radar**

uise itaa									
Radar	Pulse	PRI	Number of Pulses	Minimum	Minimum				
Type	Width	(µsec)		Percentage of	Number				
	(µsec)			Successful	of				
				Detection	Trials				
0	1	1428	18	See Note 1	See Note				
					1				
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a  Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values	Roundup $ \left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}} \right) \right\} $	60%	30				
2	1-5	selected in Test A 150-230	23-29	60%	30				
3	6-10	200-500	16-18	60%	30				
4	11-20	200-500	12-16	60%	30				
			12-10	80%					
	Aggregate (Radar Types 1-4) 80% 120								

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

### Long Pulse Radar

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000- 2000	1-3	8-20	80%	30

**Frequency Hopping Radar** 

oy nopping rada.								
Radar	Pulse	PRI	Pulses	Hopping	Hopping	Minimum	Minimum	
Type	Width	(µsec)	per	Rate	Sequence	Percentage of Number		
	(µsec)		Hop	(kHz)	Length	Successful	Trials	
					(msec)	Detection		
6	1	333	9	0.333	300	70%	30	

The applicant of this given application confirms that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

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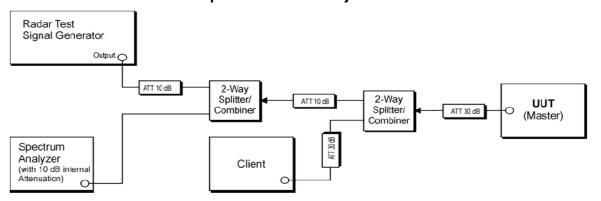
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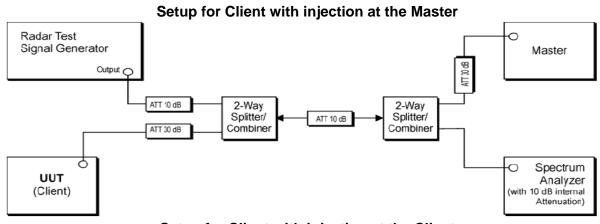


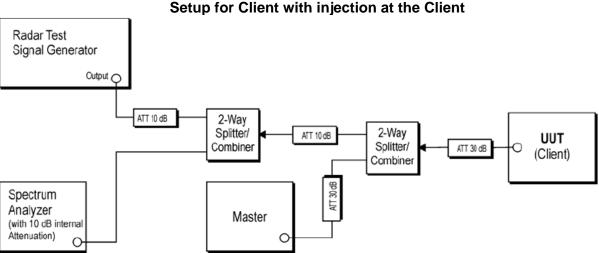
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## 4.2.2. Test Setup

#### Setup for Master with injection at the Master







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## 4.2.3. Test Equipment Used:

Conducted Emission Test Site								
EQUIPMENT TYPE	MFR MODEL NUMBER		SERIAL NUMBER	LAST CAL.	CAL DUE.			
DC Power Supply	Agilent	E3640A	KR93300208	08/15/2018	08/14/2019			
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/13/2019	02/12/2020			
Signal Generator	Agilent	N5182B	MY56200007	08/13/2018	08/12/2019			
Attenuator	Agilent	8494B	MY42152151	02/26/2019	02/25/2020			
Attenuator	Agilent	8496B	MY42147434	02/26/2019	02/25/2020			
Splitter	RF-LAMBAD	RFLT4W1G18 G	SPCD10-004	02/26/2019	02/25/2020			
Splitter	RF-LAMBAD	RFLT2W1G18 G	11-JSPF412-020	02/26/2019	02/25/2020			
Splitter	RF-LAMBAD	RFLT2W1G18 G	11-JSPF412-017	02/26/2019	02/25/2020			
Accece Ponit	LINKSYS	WRT3200ACM	1981060B614986 FCC ID:Q87-WRT3200A CM	N/A	N/A			

#### 4.2.4. Description of EUT:

EUT operates over the 5250-5350MHz and 5470-5725MHz ranges and EUT is a slave device (client equipment) w/o radar detection and DFS capability.

EUT has no TPC mechanism implemented with no adjustment of lowest, and highest power, but the level of power emission stays at fixed level.

The EUT utilizes the 802.11ac 80M architecture, with a nominal channel bandwidth of 80MHz WLAN traffic is generated by streaming the mpeg file from the master to slave in full monitor video mode using the media player.

The rated output power of the master unit is >23dBm(EIRP).therefore the required interference threshold level is -62dBm.after correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is -62dBm, and the master device as employed for the applicable DFS test is LINKSYS router.

While calibrate the path on antenna port of DFS test equipment (master), measurements equipments (spectrum) is ensured to be 50 Ohms, and therefore verification on antenna gain measurement can be ignored.

Conducted test was performed with appropriate adjustment, and calibration to ensure power from DFS simulator injects to antenna port of DFS test equipment (DFS) is -62dBm

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## Message or files that is used for communication between Master and Client:

IP based system:

For the required channel loading, the full motion, 30 frames per second MPEG video file from http://ntiacsd.ntia.doc.gov/dfs/ was streamed from a network on a test bench (server of the storage to download the mandatory format of Video file), via the DFS Master device, to the UE (mobile phone).

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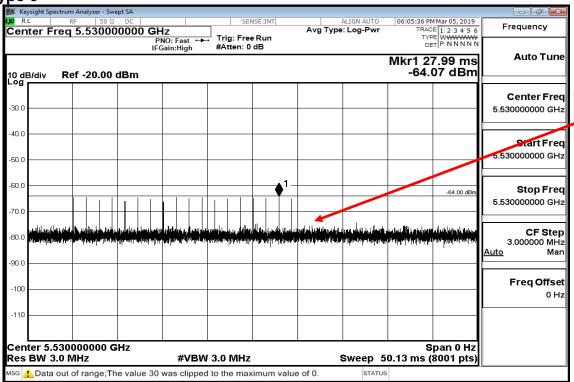
Noise Floor

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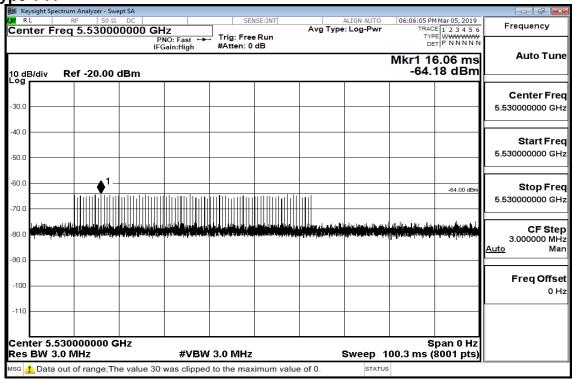
#### 4.2.5. Test results

Calibration plots for each of the required radar waveforms

Radar type 0



Radar type 1-A



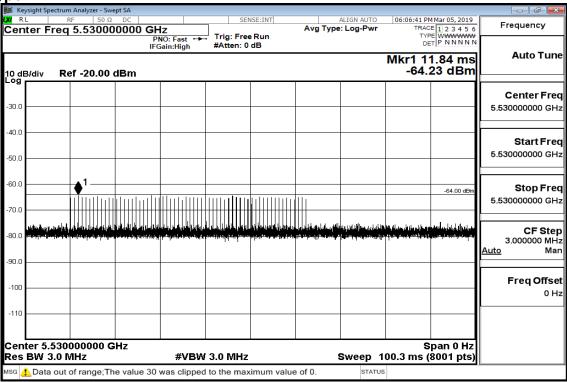
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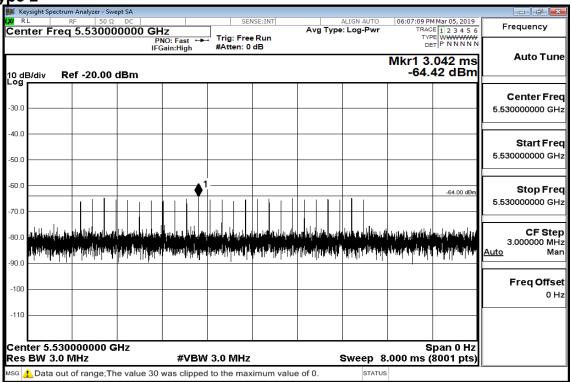
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Radar type 1-B



## Radar type 2



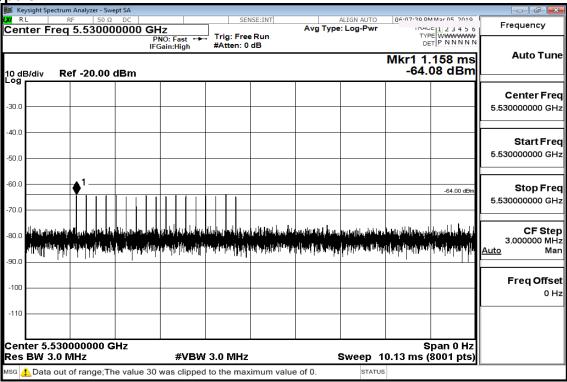
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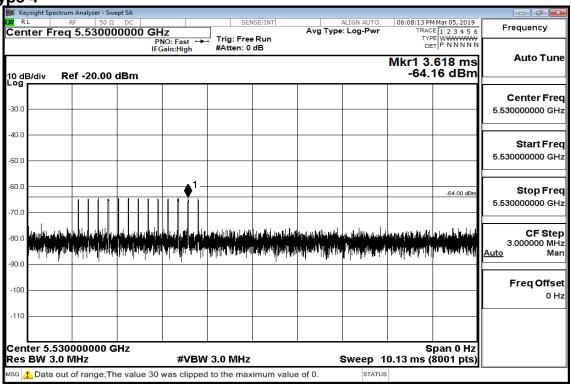
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Radar type 3



## Radar type 4



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Duty Cycle:

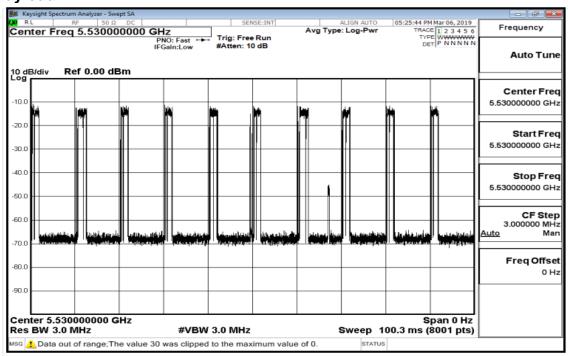
17.32284 %

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\*The Channel Loading must be more than 17%

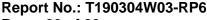
## **WLAN Payload**



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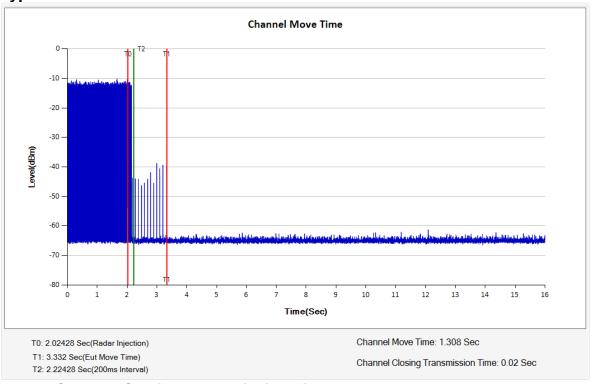
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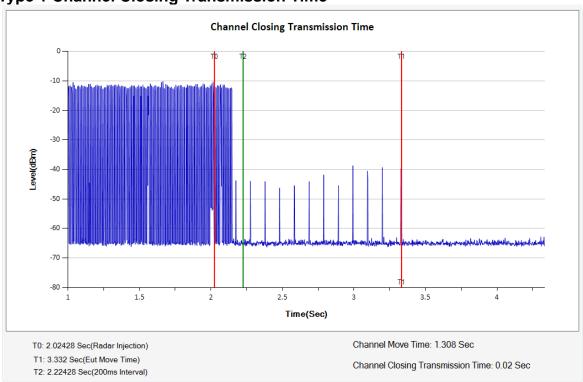
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## **Radar Type 1 Channel Move Transmission Time**



## Radar Type 1 Channel Closing Transmission Time



Verdict: Note: narrowing the sweep time as the good engineering process for the verification of transmission closing in 200ms

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