

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

| Applicant: | Barco NV President Kennedypark 35 8500 Kortrijk Belgium |
|-----------------------|---|
| Product Name: | ClickShare |
| Brand Name: | Barco |
| Model No.: | R9861600D01C |
| Model Difference: | N/A |
| FCC ID: | 2AAED-R9861600D01 |
| Report Number: | T190521W02-RP3 |
| FCC Rule Part: | §15.407, Cat: NII |
| Issue Date: | Aug. 14, 2019 |
| Date of Test: | May 21, 2019 ~ Jul. 24, 2019 |
| Date of EUT Received: | May 21, 2019 |
| Issued by: | Compliance Certification Services Inc.Wugu Lab. No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) service@ccsrf.com |

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:

Peter Wena / Engineer

Approved By:

Kevin Tsai / Deputy Manager



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T190521W02-RP3

Rev.01

Violetta Tang

Aug. 14, 2019

| Report Number | Revision | Description | Effected Page | Issue Date | Revised By |
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| T190521W02-RP3 | Rev.00 | Initial creation of docu- | All | Aug. 01, 2019 | Violetta Tang |

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Update statement

Povision History

21~23

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GENERAL INFORMATION 1

1.1 Product Description

| Product Name: | ClickShare |
|-------------------|--------------------|
| Brand Name: | Barco |
| Model No.: | R9861600D01C |
| Model Difference: | N/A |
| Hardware Version: | DVT |
| Software Version: | 4.5.23.1 (SX-2.03) |
| Power Supply: | 5Vdc from USB Port |

| Wi-Fi 802.11 | Frequency Range | Channels | Rated Power (Avg.) (dBm) | Modulation Technology | |
|---|-----------------|--------------------------------------|--------------------------|--------------------------|--|
| | 5150~5250 | 4 | 13.97 | OFDM | |
| | 5250~5350 | 4 | 13.94 | | |
| а | 5470~5725 | 12 | 12.95 | OFDIVI | |
| | 5725-5850 | 5 | 13.98 | | |
| | 5150~5250 | 4 | HT: 13.93 (Worst case) | | |
| n_HT | 5250~5350 | 4 | HT: 12.94 (Worst case) | OFDM | |
| ac_VHT 20M | 5470~5725 | 11 | HT: 12.95 (Worst case) | OFDIVI | |
| 20101 | 5725-5850 | 5 | HT: 13.95 (Worst case) | | |
| | 5150~5250 | 2 | HT: 13.82 (Worst case) | | |
| n_HT | 5250~5350 | 2 | HT: 13.87 (Worst case) | OFDM | |
| ac_VHT 40M | 5470~5725 | 5 | HT: 12.88 (Worst case) | | |
| 40101 | 5725-5850 | 2 | HT: 14.97 (Worst case) | | |
| | 5150~5250 | 1 | 9.67 | | |
| ac_VHT | 5250~5350 | 1 | 8.99 | OFDM | |
| 80M | 5470~5725 | 2 | 12.83 | OFDM | |
| 5725~5850 | | 1 | 13.88 | | |
| Modulation type64QAM, 16QAM, QPSK, BPSK for OFD 256QAM for OFDM in 802.11ac only | | | | | |
| | | 802.11 a: 6/9/12/18/24/36/48/54 Mbps | | | |
| Transition Rate: | | 802.11 n_20MHz: 6.5 – 72.2Mbps | | | |
| | | 802.11 n_40MHz: 13.5 – 150.0Mbps | | | |
| | | 802.11 ac_20MHz: 6.5 – 86.Mbps | | | |
| | | 802.11 ac_40MHz: 13.5 – 200.0Mbps | | | |
| | | 802.11 ac_8 | 0MHz: 29.3 – 433.3Mbps | | |

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1.2 Antenna Designation

| Antenna Type | Supplier | Antenna Part No. | Freq. (MHz) | Peak Antenna Gain (dBi) |
|-----------------|-------------------|---------------------|-------------|----------------------------|
| Ceramic Chip | Pulse Electronics | W3078 | 5150 – 5250 | 4.3 |
| Ceramic Chip | Pulse Electronics | W3078 | 5250 - 5350 | 4.3 |
| Ceramic Chip | Pulse Electronics | W3078 | 5470 – 5725 | 4.3 |
| Ceramic Chip | Pulse Electronics | W3078 | 5725 – 5850 | 4.3 |

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1.3 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.

1.4 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

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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SUMMARY OF TEST RESULT 2

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

MEASUREMENT UNCERTAINTY 3

| 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% |

Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.
- 3. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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TPC AND DFS MEASUREMENT

4.1 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.

4.2 DFS: Standard Applicable

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.

(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.

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(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.

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 | Not required | Yes |
| DFS Detection Thresh- old | 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 Transmis- sion 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 Trans- mission 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) |
| $EIRP \ge 200 \text{ milliwatt}$ | -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 transmission waveforms to account for variations in measurement equ | upment. This will ensure that the |
| test signal is at or above the detection threshold level to trigger a DFS | |
| Note3: EIRP is based on the highest antenna gain. For MIMO device | es refer to KDB Publication 662911 |
| D01. | |

| 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 |
| $200 \text{ mW} \le \text{e.i.r.p.} \le 1 \text{ W}$ | |
| Note: The detection threshold power is the receiv | ved 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. |

asurement timing begins at the end of the Radar Type 0 г ур 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

| 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 | $\left(\begin{pmatrix} 1 \end{pmatrix} \right)$ | 60% | 30 |
| | | PRI values | 360 | | |
| | | randomly selected | Roundun | | |
| | | from the list of 23 | 19·10° | | |
| | | PRI values in | $\left(\overline{PRI}_{\mu sec} \right)$ | | |
| | | 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 | | | |
| | | selected in Test A | | | |
| 2 | 1-5 | 150-230 | 23-29 | 60% | 30 |
| 3 | 6-10 | 200-500 | 16-18 | 60% | 30 |
| 4 | 11-20 | 200-500 | 12-16 | 60% | 30 |
| Aggregate (| Radar Types | 1-4) | | 80% | 120 |
| | | | sed for the detection ba | ndwidth test, ch | annel move |
| time, and cl | nannel closing | g time tests. | | | |

Long Pulse Radar

| Rađar Type | Pulse Width (µsec) | Chirp Width (MHz) | PRI (µsec) | Number of Pulses per Burst | Number of <i>Bursts</i> | 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

| Radar Type | Pulse Width | PRI (µsec) | Pulses per | Hopping Rate | Hopping Sequence | Minimum Percentage of | Minimum Number of |
|---------------|----------------|---------------|---------------|-----------------|---------------------|--------------------------|----------------------|
| | (µsec) | | Нор | (kHz) | Length (msec) | Successful Detection | Trials |
| 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.

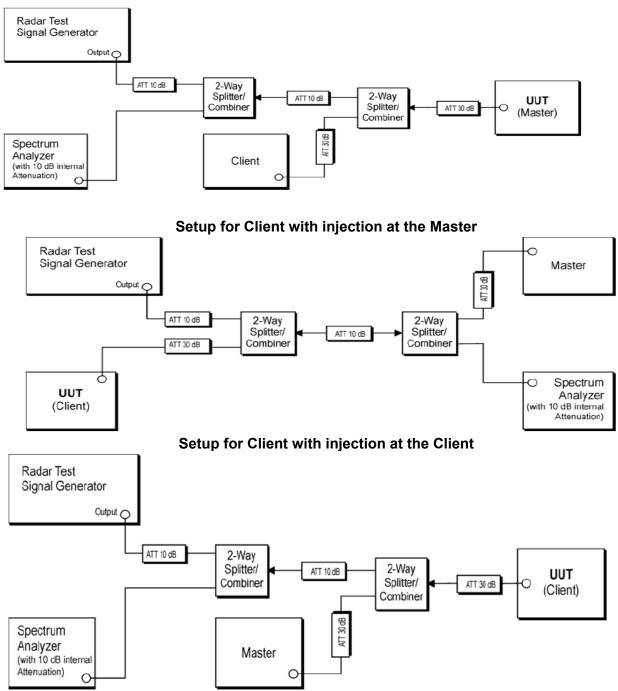
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4.2.2. Test Setup



Setup for Master with injection at the Master

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4.2.3. Test Equipment Used:

| EQUIPMENT | MFR | MODEL | SERIAL | LAST | CAL DUE. |
|--------------------------|---------------|-------------|--|------------|------------|
| TYPE | | NUMBER | NUMBER | CAL. | |
| Signal Generator | Agilent | N5182B | MY56200007 | 08/13/2018 | 08/12/2019 |
| EXA Spectrum Analyzer | KEYSIGHT | N9010A | MY57120290 | 02/13/2019 | 02/12/2020 |
| Splitter | RF-LAMBAD | RFLT4W1G18G | SPCD10-004 | 02/26/2019 | 02/25/2020 |
| Splitter | RF-LAMBAD | RFLT2W1G18G | 11-JSPF412-020 | 02/26/2019 | 02/25/2020 |
| Splitter | RF-LAMBAD | RFLT2W1G18G | 11-JSPF412-017 | 02/26/2019 | 02/25/2020 |
| Attenuator | Agilent | 8494B | MY42152151 | 02/26/2019 | 02/25/2020 |
| Attenuator | Agilent | 8496B | MY42147434 | 02/26/2019 | 02/25/2020 |
| Splitter | RF-LAMBAD | RFLT2W1G18G | 11-JSPD022-013 | 02/26/2019 | 02/25/2020 |
| DC Block | Mini-Circuits | BLK-18-S+ | 31129(1) | 02/26/2019 | 02/25/2020 |
| Access Point | LINKSYS | WRT3200ACM | 1981060B614986 FCC ID: Q87-WRT3200ACM IC: 3839A-WRT3200ACM | 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 VHT80 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 CISCO router whose FCC ID= Q87-WRT3200ACM

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:

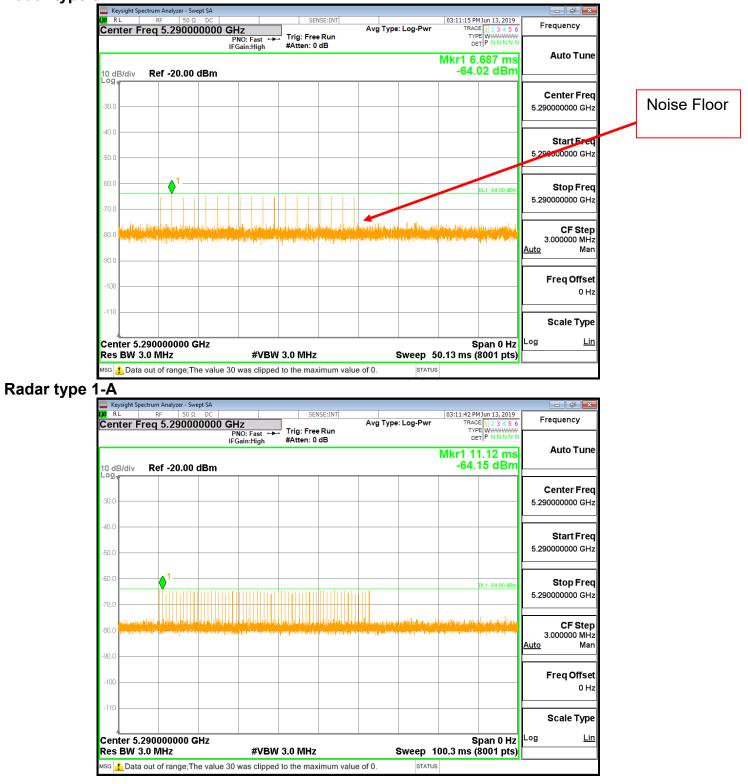
For the required channel loading, the full motion, 30 frames per second MPEG video file from http://ntiacsd.ntia.doc.gov/dfs/ was streamed from a network on a test bench (server of the storage to download the mandatory format of Video file), via the DFS Master device, to the UE (mobile phone).

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4.2.5. Test results Calibration plots for each of the required radar waveforms Radar type 0



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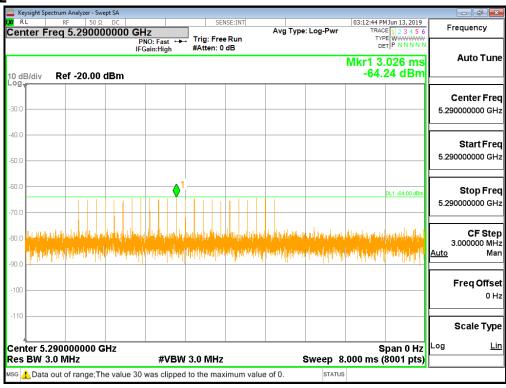
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Radar type 1-B

| Key RL Cent | | RF 50 Ω | 0000 G | Hz PNO: Fast ↔ | 1 | Run | Avg Type | e: Log-Pwr | TRAC | M Jun 13, 2019 E 1 2 3 4 5 6 E W W W W W | Frequency |
|-------------------|---|-----------------|--------|-------------------|-----------|-----|----------|------------------------------------|--------|--|--------------------------------------|
| 10 dE | 3/div R | ef -20.00 (| IF | Gain:High | #Atten: 0 | dB | | | Mkr1 5 | 7.05 ms 28 dBm | Auto Tur |
| -30.0 + | | | | | | | | | | | Center Fr 5.290000000 GI |
| -40.0 -50.0 | | | | | | | | | | | Start Fr 5.290000000 G |
| -60.0 | | | | | | | | | | DL1 -64.00 dBm | Stop Fr 5.290000000 G |
| | pilizard fisik lisk of script policies | | | | | | | dillani satada pining pening pe | | | CF St 3.000000 M <u>Auto</u> M |
| -100 - | | | | | | | | | | | Freq Offs 0 |
| -110 - | | | | | | | | | | | Scale Ty |
| | ter 5.290 BW 3.0 I | 000000 G MHz | Hz | #VBW | 3.0 MHz | | 1 | Sweep 1 | | pan 0 Hz 8001 pts) | Log <u>L</u> |

Radar type 2



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Radar type 3

| | | Analyzer - S | | | | | | | | | | | | | | |
|------------------------|------------------------------|-------------------------------|-------------------------------|-----------------------|-----------------------|--------------------------------------|-------------|--|---------------------------|--------------------------|-----------------------------|-------------|---------------------|--|------|--------------------------------|
| enter | Freq | | |) GHz | :Fast ↔ | Trig | SEN | Run | Avg Ty | /pe: Lo | g-Pwr | 03:13 | TYPE | 1 2 3 4 5 6 WWWWWW | | requency |
| 0 dB/div | Re | f -20.0 |) dBm | | n:High | #Att | en: 0 | dB | | | | | 1 4.2 | 213 ms 5 dBm | | Auto Tu |
| - og | | | | | | | | | | | | | | | | Center Fr 90000000 G |
| 40.0 50.0 | | | | | | | | | | | | | | | 5.29 | Start Fi 90000000 0 |
| 70.0 | | | | | | ● ¹ | | | | | | | D | L1 -64.00 dBm | 5.29 | Stop F |
| 80.0 <mark>Vita</mark> | rifligen (s) Negligen (d) | lin on office. Name of the | lan di serine An di serine | ringilain Mitalain | er tiller Lenderer | il (logica) N _{on} Polit | n jahr | pologi ^a no 1940 a lijud | gertingener Heiteperer | aullu espi Terre More | e o mostileg Gelekedt af | that so the | darlar) Qəfillər | handaran an a | Auto | CF S 3.000000 M |
| -100 | | <u>- 1</u> | | | | | | | | | | | | | | Freq Off |
| -110 | | | | | | | | | | | | | | | | Scale Ty |
| Center | 5.2900 / 3.0 M | | GHz | | #\/B) | N 3.0 I | лц <u>-</u> | | | . | | | | an 0 Hz 001 pts) | Log | |

Radar type 4

| | sight Spectrun | | | | | | | | | | | | | | | | | |
|-------------------------|--|----------|------------|---------------------------|----|------------------|------------|-------|-------------------|--------|------|--------|---------|-----|---------|------------------------------------|-------------|-------------------------------|
| a _{RL} Cent | er Freq | | οΩ 0000 | DC | GH | z | | | | NSE:IN | Av | g Type | : Log-l | Pwr | TR | PM Jun 13, 2019 ACE 1 2 3 4 5 6 | F | requency |
| 0 dB | /div R | ef -20.(| 00 d | Bm | | O: Fas ain:Hi | st ↔ gh | | g: Fre tten: 0 | | | | | | Mkr1 | 5.057 ms | | Auto Tur |
| 0 g 20.0 - | | | | | | | | | | | | | | | | | | Center Fre |
| 40.0 - 50.0 - | | | | | | | | | | | | | | | | | 5.29 | Start Fr 90000000 G |
| io.o - 10.0 - | | | | | | | | | (| 1- | | | | | | DL1 -64.00 dBm | 5.29 | Stop Fr 90000000 G |
| 0.0 | ⁿ pilon ^d ensem Njelogi otretog | | | thorad day Na dalahada | | | | | | | | | | | | an papel at the st | <u>Auto</u> | CF St 3.000000 M M |
| 100 - | | | | | | | | | | | | | | | | | | Freq Offs 0 |
| 110 - | | | | | | | | | | | | | | | | | | Scale Ty |
| | er 5.290 BW 3.0 M | | 0 GH | Ηz | | # | VBW | / 3.0 | MHz | | | ; | Swee | р 1 | 0.13 ms | Span 0 Hz (8001 pts) | Log | l |

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Radar type 5

| RL | RF 50 Ω | DC | SENSE:INT | | | DM 106 12 2010 | requency |
|--|----------------|---------------------------------------|------------------|------------------------|------|-----------------------------|-----------------------------------|
| enter Fre | eq 5.29000 | 0000 GHz PNO: Fast ← | 📕 Trig: Free Run | Avg Type: Log-Pwr | т | YPE WWWWWW DET P N N N N | |
| | | IFGain:High | #Atten: 0 dB | | | | Auto Tune |
| | | - | | | ΔMkr | 2 10.05 s 0.42 dB | |
|) dB/div 99 | Ref -20.00 d | dBm | | | | 0.42 UB | |
| 0.0 | | | | | | | Center Free |
| 0.0 | | | | | | | 5.290000000 GHz |
| 0.0 | | | | | | | |
| 0.0 | W | | > | | 2Δ3 | DL1 -64.00 dBm | Start Free |
| 0.0 | 3 | | | | | a at the state of the | 5.290000000 GHz |
| 0.0 | | | | | | | |
| 0.0 | | | | | | | Oton From |
| 100 | | | | | | | Stop Freq 5.290000000 GHz |
| 110 | | | | | | | 3.230000000 GH2 |
| enter 5 2 | 90000000 G | · · · · · · · · · · · · · · · · · · · | | | | Span 0 Hz | CF Step |
| es BW 3. | | | W 3.0 MHz | Sweep | | (8001 pts) | 3.000000 MHz |
| | SCL | X | Y FI | UNCTION FUNCTION WIDTH | FUNC | | <u>Auto</u> Man |
| KR MODE TRC | | | | | | | |
| 1 N 1 | t (Δ) | 5.702 s (Δ | | | | | |
| 1 N 1 2 Δ3 1 3 F 1 | | 5.702 s (Δ 10.05 s (Δ 1.974 s | | | | | Freq Offset |
| 1 N 1 2 Δ3 1 3 F 1 4 5 | t (Δ) t (Δ) | 10.05 s (Δ |) 0.42 dB | | | E | |
| 1 Ν 1 2 Δ3 1 3 F 1 4 5 6 7 | t (Δ) t (Δ) | 10.05 s (Δ |) 0.42 dB | | | E | 0 Hz |
| 1 N 1 2 Δ3 1 3 F 1 4 5 6 7 8 9 | t (Δ) t (Δ) | 10.05 s (Δ |) 0.42 dB | | | E | Freq Offset 0 Hz Scale Type |
| 1 N 1 2 Δ3 1 3 F 1 4 5 6 7 8 | t (Δ) t (Δ) | 10.05 s (Δ |) 0.42 dB | | | E | 0 Hz |

Radar type 6

| RF 50 Ω | DC | | | | | | | | | |
|------------------|---------|---------------------------------------|-------------|------------------------|--|----------------|---|---|---|--|
| a 5.29000 | 00000 G | iHz | | SEI | NSE:INT | Avg Type | : Log-Pwr | | 4 1un 13 2019 | requency |
| | I | PNO: Fast | | Trig: Fre #Atten: 0 | | | | Mkr1 1 | 600 ms | Auto Tu |
| | | | | | | | | | | Center Fr 5.290000000 G |
| | | | | | | | | | | Start Fr 5.290000000 G |
| · · · · · · | 1 | | | | | | | | DL1 -64.00 dBm | Stop Fr 5.290000000 G |
| | | | | | | | | | | CF St 3.000000 M <u>Auto</u> M |
| | | | | | | | | | | Freq Off |
| | | | | | | | | | | Scale Ty |
| 0000000 G MHz | Hz | #V | BW 3 | 3.0 MHz | | | Sweep 8 | | puii v 112 | Log |
| | | I I I I I I I I I I I I I I I I I I I | IFGain:High | IFGain:High | IFGain:High #Atten: 0 tef -20.00 dBm | tef -20.00 dBm | IFGain:High #Atten: 0 dB tef -20.00 dBm | IFGain:High #Atten: 0 dB tef -20.00 dBm | IFGain:High #Atten: 0 dB Mkr1 1 tef -20.00 dBm -64. 1 < | Inc. reg #Atten: 0 dB Mkr1 1.600 ms Mkr1 1.600 ms -64.29 dBm |

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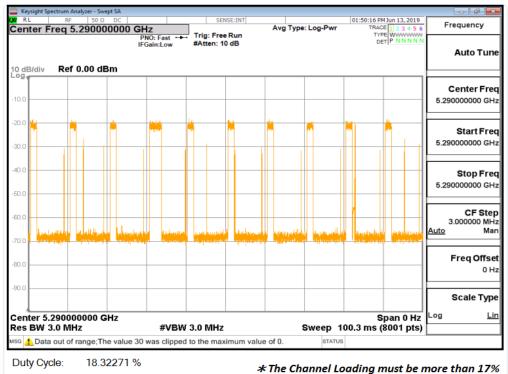
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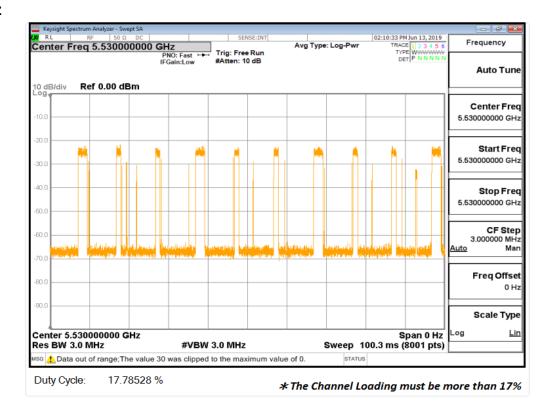
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WLAN Payload 5290MHz



5530MHz



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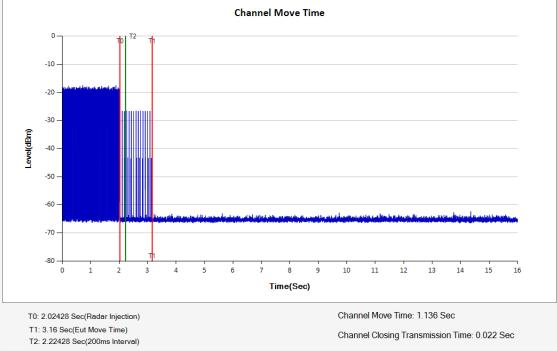
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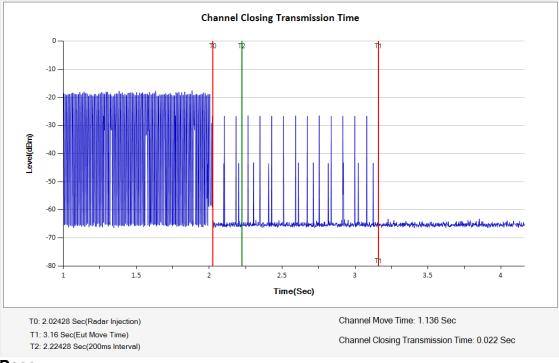
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5290MHz **Channel Move Transmission Time**



Channel Closing Transmission Time



Verdict: Pass

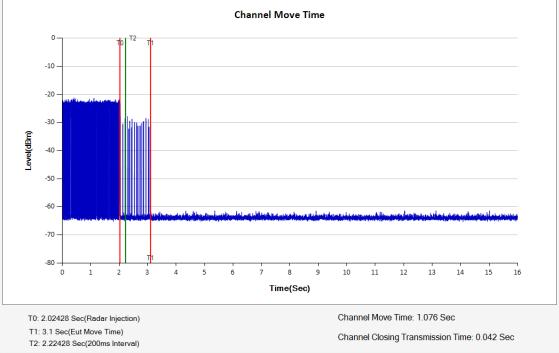
Note: narrowing the sweep time as the good engineering process for the verification of transmission closing

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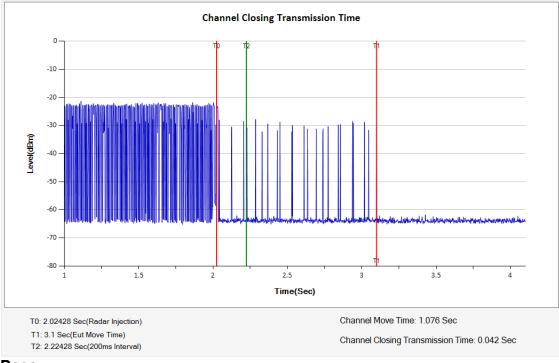
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5530MHz **Channel Move Transmission Time**



Channel Closing Transmission Time



Verdict: Pass

Note: narrowing the sweep time as the good engineering process for the verification of transmission closing

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Non-occupancy Period (without radar detection)

| | ight Spectrun | | | | | | | | | | | |
|-------------------------------|----------------------------------|---------|----------------------|---------------------------|--------------------------|--------|----------|------------|----------------------|---|------|------------------------------------|
| Cento | | | 0 Ω DC 10000000 G | | | SE:INT | Avg Type | e: Log-Pwr | TRAC | M Jun 13, 2019 CE 1 2 3 4 5 6 PE WWWWWW | 4 | requency |
| 10 dB/ | /div R | ef 0.00 | 1 | PNO: Fast ↔ IFGain:Low | #Atten: 10 | | | | ۵ ۵ <u>Mkr1</u> 1 | | 4 | Auto Tune |
| -10.0 - -20.0 - | X_2 | | | | | | | | | | | Center Freq 30000000 GHz |
| -40.0 - -50.0 - | | | | | | | | - | | 1∆2 | 5.53 | Start Freq 30000000 GHz |
| -70.0 = -80.0 = -90.0 = | | | | | | | | | | | 5.53 | Stop Freq 30000000 GHz |
| Res E | er 5.530 BW 3.0 De RC 50 | VIHz | 0 GHz × | #VB\ | N 3.0 MHz | EUN | | Sweep 2 | 2.000 ks (| span 0 Hz 8001 pts) | Auto | CF Step 3.000000 MHz Mar |
| | \2 1 t | (Δ) | 1 | 1.800 ks (Δ) 97.25 s |) -32.70 d -29.43 dBi | IB | | | | = | | Freq Offset 0 Hz |
| 8 | | | | | | | | | | | | Scale Type |
| 10 11 | | | | | m | | | | | - | Log | Lir |
| MSG | | _ | | | | | | STATUS | 2 | | | |

Verdict: Pass

To verify whether channel is unavailable to be operated in 30 minutes. 1.8ks = 1800s = 1800 s/min /60 = 30minute

~ End of Report ~

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