

DFS PORTION of FCC 47 CFR PART 15 SUBPART E DFS PORTION of ISED CANADA RSS-247 ISSUE 2

CERTIFICATION TEST REPORT

FOR

SMARTPHONE

MODEL NUMBER: A2632 (PARENT MODEL) A2885, A2886, A2887, A2888 (VARIANT MODELS)

FCC ID: BCG-E8139A (PARENT MODEL) BCG-E8146A, BCG-E8147A BCG-E8148A (VARIANT MODELS)

ISED ID: 579C-E8139A (PARENT MODEL) 579C-E8146A, 579C-E8147A, 579C-E8148A (VARIANT MODELS)

REPORT NUMBER: 14040868-E22V2

ISSUE DATE: AUGUST 10, 2022

Prepared for APPLE, INC. 1 APPLE PARK WAY CUPERTINO CA 95014, U.S.A

Prepared by UL VERIFICATION SERVICES INC. 47173 BENICIA STREET FREMONT, CA 94538, U.S.A. TEL: (510) 319-4000 FAX: (510) 661-0888



Revision History

| Rev. | lssue Date | Revisions | Revised By |
|------|---------------|--|---------------------|
| V1 | 08/01/22 | Initial Issue | Douglas Anderson |
| V2 | 08/10/22 | Fix model numbers and reference report | Chin Pang |

Page 2 of 110

TABLE OF CONTENTS

| 1. | ATTESTATION OF TEST RESULTS | 6 |
|-------------|---|---|
| 2. | TEST METHODOLOGY | 7 |
| 3. | SUMMARY OF TEST RESULTS | 7 |
| 4. | REFERENCE DOCUMENTS | 7 |
| 5. | FACILITIES AND ACCREDITATION | 7 |
| 6. | DECISION RULES AND MEASUREMENT UNCERTAINTY | 8 |
| 6 | .1. METROLOGICAL TRACEABILITY | 8 |
| 6 | .2. DECISION RULES | 8 |
| 7. | MODEL DIFFERENCES | 8 |
| 8. | DYNAMIC FREQUENCY SELECTION | 9 |
| 8 | .1. OVERVIEW | 9 |
| | 8.1.1. LIMITS | |
| | 8.1.2. TEST AND MEASUREMENT SYSTEM | |
| | 8.1.3. TEST AND MEASUREMENT SOFTWARE1 | |
| | 8.1.4. TEST ROOM ENVIRONMENT | |
| | 8.1.6. SETUP OF EUT (CLIENT MODE) | |
| | 8.1.7. SETUP OF EUT (PEER TO PEER MODE)1 | |
| | 8.1.8. DESCRIPTION OF EUT | |
| 8 | .2. CLIENT MODE RESULTS FOR 20 MHz BANDWIDTH | 2 |
| 0 | 8.2.1. TEST CHANNEL | |
| | 8.2.2. RADAR WAVEFORM AND TRAFFIC | |
| | 8.2.3. OVERLAPPING CHANNEL TESTS | |
| | 8.2.4. MOVE AND CLOSING TIME | 5 |
| 8 | .3. CLIENT MODE RESULTS FOR 40 MHz BANDWIDTH | 9 |
| | 8.3.1. TEST CHANNEL | |
| | 8.3.2. RADAR WAVEFORM AND TRAFFIC | - |
| | 8.3.3. OVERLAPPING CHANNEL TESTS | |
| | 8.3.4. MOVE AND CLOSING TIME | 2 |
| 8 | .4. CLIENT MODE RESULTS FOR 80 MHz BANDWIDTH | |
| | 8.4.1. TEST CHANNEL | 6 |
| | 8.4.2. RADAR WAVEFORM AND TRAFFIC | |
| | 8.4.3. OVERLAPPING CHANNEL TESTS | |
| | 8.4.5. 30-MINUTE NON-OCCUPANCY PERIOD4 | |
| ~ | | 5 |
| - | .5. CLIENT-TO-CLIENT COMMUNICATIONS MODE RESULTS FOR 20 MHz ANDWIDTH | л |
| В | 8.5.1. TEST CHANNEL | |
| | 8.5.2. RADAR WAVEFORM AND TRAFFIC | |
| | 8.5.3. OVERLAPPING CHANNEL TESTS | |
| | Page 3 of 110 | |
| | | _ |

| 8.5.4. N | IOVE AND CLOSING TIME | 47 |
|--------------------|---|-----|
| 8.6. PEEF | R TO PEER MODE EUT RESULTS FOR 40 MHz BANDWIDTH | 51 |
| 8.6.1. T | EST CHANNEL | 51 |
| | | |
| | VERLAPPING CHANNEL TESTS IOVE AND CLOSING TIME | - |
| | | |
| | NT-TO-CLIENT COMMUNICATIONS MODE RESULTS FOR 80 MHz H | 58 |
| | EST CHANNEL | |
| | ADAR WAVEFORM AND TRAFFIC | |
| | VERLAPPING CHANNEL TESTS | |
| | 10VE AND CLOSING TIME | |
| 8.7.5. 3 | 0-MINUTE NON-OCCUPANCY PERIOD | 65 |
| 8.8. PEEF | R TO PEER MODE EUT RESULTS FOR 20 MHz BANDWIDTH | 66 |
| 8.8.1. T | EST CHANNEL | 66 |
| | ADAR WAVEFORM AND TRAFFIC | |
| | VERLAPPING CHANNEL TESTS | |
| 8.8.4. N | IOVE AND CLOSING TIME | 69 |
| | R TO PEER MODE EUT RESULTS FOR 40 MHz BANDWIDTH | - |
| 8.9.1. T | EST CHANNEL | 73 |
| | | |
| | VERLAPPING CHANNEL TESTS IOVE AND CLOSING TIME | |
| | | _ |
| | ER TO PEER MODE EUT RESULTS FOR 80 MHz BANDWIDTH | |
| 8.10.1. | TEST CHANNEL RADAR WAVEFORM AND TRAFFIC | 80 |
| 8.10.2. 8.10.3. | OVERLAPPING CHANNEL TESTS | |
| 8.10.3. 8.10.4. | MOVE AND CLOSING TIME | |
| 8.10.5. | 30-MINUTE NON-OCCUPANCY PERIOD | |
| 8.11. PE | ER TO PEER MODE PEER SLAVE DEVICE RESULTS FOR 20 MHz | |
| - | H | |
| 8.11.1. | TEST CHANNEL | 88 |
| 8.11.2. | RADAR WAVEFORM AND TRAFFIC | |
| 8.11.3. | OVERLAPPING CHANNEL TESTS | |
| 8.11.4. | MOVE AND CLOSING TIME | 91 |
| | ER TO PEER MODE PEER SLAVE DEVICE RESULTS FOR 40 MHz | |
| | Н | |
| 8.12.1. | TEST CHANNEL RADAR WAVEFORM AND TRAFFIC | |
| 8.12.2. 8.12.3. | OVERLAPPING CHANNEL TESTS | |
| 8.12.3. 8.12.4. | MOVE AND CLOSING TIME | |
| - | | |
| | ER TO PEER MODE PEER SLAVE DEVICE RESULTS FOR 80 MHz H | 100 |
| 8.13.1. | H TEST CHANNEL | |
| 8.13.2. | RADAR WAVEFORM AND TRAFFIC | |
| 8.13.3. | OVERLAPPING CHANNEL TESTS | |
| 8.13.4. | MOVE AND CLOSING TIME | 105 |
| 8.13.5. | 30-MINUTE NON-OCCUPANCY PERIOD | 109 |
| | | |

Page 4 of 110

| 9. | SETUP PHOTOS | 11 | 0 | |
|----|--------------|----|---|--|
|----|--------------|----|---|--|

Page 5 of 110

1. ATTESTATION OF TEST RESULTS

| COMPANY NAME: | APPLE, INC. 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A. | | | | | | |
|---|--|---------------|--|--|--|--|--|
| EUT DESCRIPTION: | SMARTPHONE | | | | | | |
| MODEL: A2632 (PARENT MODEL) A2885, A2886, A2887, A2888 (VARIANT MODELS) | | RIANT MODELS) | | | | | |
| SERIAL NUMBER: | XJ7X7X3NGY | | | | | | |
| DATE TESTED: | MAY 23 to 24, 2022 | | | | | | |
| | APPLICABLE STANDARDS | | | | | | |
| STANDARD | | TEST RESULTS | | | | | |
| DFS Portion of CI | FR 47 Part 15 Subpart E | Complies | | | | | |
| DFS Portion of ISED CANADA RSS-247 Issue 2 | | Complies | | | | | |

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.

Approved & Released For UL Verification Services Inc. By:

for the mean

Edgard Rincand Operations Leader CONSUMER TECHNOLOGY DIVISION UL Verification Services Inc.

Prepared By:

Douches Conclusion

DOUG ANDERSON Test Engineer CONSUMER TECHNOLOGY DIVISION UL Verification Services Inc.

Page 6 of 110

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with the DFS portion of FCC CFR 47 Part 2, FCC CFR 47 Part 15, FCC KDB 789033, KDB 905462 D02 and D03 and RSS-247 Issue 2.

3. SUMMARY OF TEST RESULTS

| Requirement Description | Result | Remarks |
|---|----------|---------|
| DFS Portion of FCC 47 CFR PART 15 SUBPART E | Complies | |
| DFS Portion of ISED CANADA RSS-247 ISSUE 2 | Complies | |

4. REFERENCE DOCUMENTS

Measurements of transmitter parameters as referenced in this report and all other manufacturer's declarations relevant to the RF test requirements are documented in UL Verification Services report number 14040868-E5V4 & E6V4 FCC_IC UNII Conducted Report".

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for the validity of results after the integration of the data provided by the customer.

5. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, Certificate Number 0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

| | Address | ISED CABID | ISED Company Number | FCC Registration |
|--------------------------|-------------------------------------|------------|---------------------|------------------|
| | Building 1: 47173 Benicia Street, | US0104 | 2324A | 550739 |
| \boxtimes | Fremont, California, USA | | | |
| | Building 2: 47266 Benicia Street, | US0104 | 22541 | 550739 |
| Fremont, California, USA | | | | |
| | Building 4: 47658 Kato Rd, Fremont, | US0104 | 2324B | 550739 |
| | California, USA | | | |

Page 7 of 110

6. DECISION RULES AND MEASUREMENT UNCERTAINTY

6.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

6.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement).

7. MODEL DIFFERENCES

The manufacturer hereby declares that:

- All models use the same system, cellular and Wi-Fi/BT radio electrical schematics.
- Removal of FR2, LTE/NR and MSS bands in some models is done by de-population of directly related components.
- All models except reference model support at least one UICC based SIM. The second SIM is either an UICC based p-SIM (physical SIM) or e-SIM (electronic SIM).
- All models use the same Wi-Fi/BT chipset and radio module.
- All models use the same Applications Processor and PMU.
- All models run the same Baseband firmware and iOS software.

The characteristics listed above do not have any influence upon the DFS performance of the models covered by this report and therefore the DFS test results documented for Parent Model A2632 for may be applied as representative to Variant Models A2885, A2886, A2887 and A2888.

Additional spot check testing was also performed to confirm that the data presented in the report for Parent Model A2632 is representative for all the Variant Models A2885, A2886, A2887 and A2888 within the scope of this report.

8. DYNAMIC FREQUENCY SELECTION

8.1. OVERVIEW

8.1.1. LIMITS

INNOVATION, SCIENCE and ECONOMIC DEVELOPMENT CANADA (ISED)

ISED RSS-247 is closely harmonized with FCC Part 15 DFS rules. The deviations are as follows:

RSS-247 Issue 2

Note: For the band 5600–5650 MHz, no operation is permitted.

Until further notice, devices subject to this annex shall not be capable of transmitting in the band 5600–5650 MHz. This restriction is for the protection of Environment Canada weather radars operating in this band.

FCC

§15.407 (h), FCC KDB 905462 D02 "COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION" and KDB 905462 D03 "U-NII CLIENT DEVICES WITHOUT RADAR DETECTION CAPABILITY".

Page 9 of 110

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

| Requirement | Operational Mode | | | |
|---------------------------------|------------------|----------------------------------|-------------------------------|--|
| | Master | Client (without radar detection) | Client (with radar detection) | |
| Non-Occupancy Period | Yes | Not required | 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

| Requirement | Operational Mode | | | |
|-----------------------------------|------------------|-------------------------|----------------------|--|
| | Master | Client (without DFS) | Client (with DFS) | |
| DFS Detection Threshold | Yes | Not required | Yes | |
| Channel Closing Transmission Time | Yes | Yes | Yes | |
| Channel Move Time | Yes | Yes | Yes | |
| U-NII Detection Bandwidth | Yes | Not required | Yes | |

| Additional requirements for | Master Device or Client with | Client (without DFS) | | |
|--|-------------------------------------|--|--|--|
| devices with multiple bandwidth modes | Radar DFS | (without DFS) | | |
| U-NII Detection Bandwidth 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 all 20 MHz channel blocks and a null frequency between the bonded 20 MHz channel blocks. | | | | |

Page 10 of 110

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

| Maximum Transmit Power | Value | | | |
|--|-------------------------|--|--|--|
| | (see notes) | | | |
| E.I.R.P. ≥ 200 milliwatt | -64 dBm | | | |
| E.I.R.P. < 200 milliwatt and | -62 dBm | | | |
| power spectral density < 10 dBm/MHz | | | | |
| E.I.R.P. < 200 milliwatt that do not meet 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. | | | | |
| Note 3 ELR P is based on the highest antenna gain. For MI | MO devices refer to KDB | | | |

Note 3: E.I.R.P. is based on the highest antenna gain. For MIMO devices refer to KDB publication 662911 D01.

| Table 4: DF5 Response requirement values | |
|--|--|
| Parameter | |

able 4. DEC Deenenee require

| Parameter | Value |
|-----------------------------------|---|
| Non-occupancy period | 30 minutes |
| Channel Availability Check Time | 60 seconds |
| Channel Move Time | 10 seconds (See Note 1) |
| Channel Closing Transmission Time | 200 milliseconds + approx. 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.

Page 11 of 110

Table 5 – Short Pulse Radar Test Waveforms

| Radar | Pulse | PRI | Pulses | Minimum | Minimum |
|---------|------------------|-------------------------|---|------------------|----------|
| Туре | Width | (usec) | | Percentage | Trials |
| | (usec) | | | of Successful | |
| | | | | Detection | |
| 0 | 1 | 1428 | 18 | See Note 1 | See Note |
| | | | | | 1 |
| 1 | 1 | Test A: 15 unique | | 60% | 30 |
| | | PRI values randomly | | | |
| | | selected from the list | Roundup: | | |
| | | of 23 PRI values in | {(1/360) x (19 x 10 ⁶ PRI _{usec})} | | |
| | | table 5a | | | |
| | | Test B: 15 unique | | | |
| | | PRI values randomly | | | |
| | | selected within the | | | |
| | | range of 518-3066 | | | |
| | | usec. With a | | | |
| | | minimum increment | | | |
| | | of 1 usec, 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 T | ypes 1-4) | 80% | 120 |
| Note 1: | Short P | ulse Radar Type 0 shou | d be used for the Detection Bai | ndwidth test, Ch | annel |
| Move T | <i>ime</i> , and | Channel Closing Time to | ests. | | |

Table 6 – Long Pulse Radar Test Signal

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

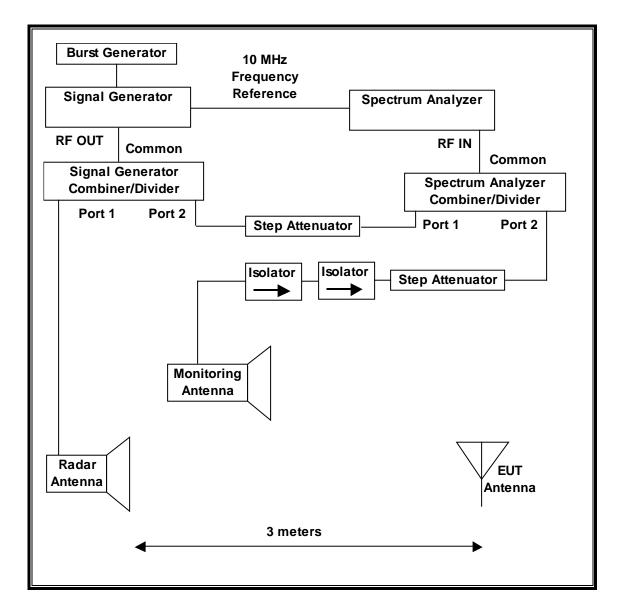
Table 7 – Frequency Hopping Radar Test Signal

| | | <u></u> | | | | | |
|----------|--------|---------|--------|---------|----------|---------------|---------|
| Radar | Pulse | PRI | Pulses | Hopping | Hopping | Minimum | Minimum |
| Waveform | Width | (µsec) | per | Rate | Sequence | Percentage of | Trials |
| Туре | (µsec) | | Нор | (kHz) | Length | Successful | |
| | | | | | (msec) | Detection | |
| 6 | 1 | 333 | 9 | 0.333 | 300 | 70% | 30 |

Page 12 of 110

8.1.2. TEST AND MEASUREMENT SYSTEM

RADIATED METHOD SYSTEM BLOCK DIAGRAM



Page 13 of 110

SYSTEM OVERVIEW

The short pulse and long pulse signal generating system utilizes the NTIA software. The Vector Signal Generator has been validated by the NTIA. The hopping signal generating system utilizes the CCS simulated hopping method and system, which has been validated by the DoD, FCC and NTIA. The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution.

The short pulse types 2, 3 and 4, and the long pulse type 5 parameters are randomized at runtime.

The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of KDB 905462 D02. The frequency of the signal generator is incremented in 1 MHz steps from F_L to F_H for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold.

SYSTEM CALIBRATION

A 50-ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to a horn antenna via a coaxial cable, with the reference level offset set to (horn antenna gain – coaxial cable loss). The signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of –64 dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyzer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. The Reference Level Offset of the spectrum analyzer is adjusted so that the displayed amplitude of the signal is –64 dBm.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of –64 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

Page 14 of 110

ADJUSTMENT OF DISPLAYED TRAFFIC LEVEL

A link is established between the Master and Slave and the distance between the units is adjusted as needed to provide a suitable received level at the Master and Slave devices. The video test file is streamed to generate WLAN traffic. The monitoring antenna is adjusted so that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold.

TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

| TEST EQUIPMENT LIST | | | | | | | |
|--|--------------|---------|--------|----------|--|--|--|
| Description | Manufacturer | Model | ID No. | Cal Due | | | |
| Spectrum Analyzer, PXA, 3Hz to 8.4GHz | Keysight | N9030A | 150667 | 01/27/23 | | | |
| Signal Generator, MXG X-Series RF Vector | Keysight | N5182B | 215999 | 02/08/23 | | | |
| Frequency Extender | Keysight | N5182BX | 213906 | 12/29/22 | | | |

Note: An MGX series Signal Generator and separate external Frequency Extender module are shown in the preceding radiated system block diagram as a stand-alone Signal Generator.

8.1.3. TEST AND MEASUREMENT SOFTWARE

The following test and measurement software was utilized for the tests documented in this report:

| TEST SOFTWARE LIST | | | | | |
|--------------------|---------|--|--|--|--|
| Name | Version | Test / Function | | | |
| Aggregate Time-PXA | 3.1 | Channel Loading and Aggregate Closing Time | | | |
| PXA Read | 3.1 | Signal Generator Screen Capture | | | |
| SGXProject.exe | 1.7 | Radar Waveform Generation and Download | | | |

8.1.4. TEST ROOM ENVIRONMENT

The test room temperature and humidity shall be maintained within normal temperature of 15~35 °C and normal humidity 20~75% (relative humidity).

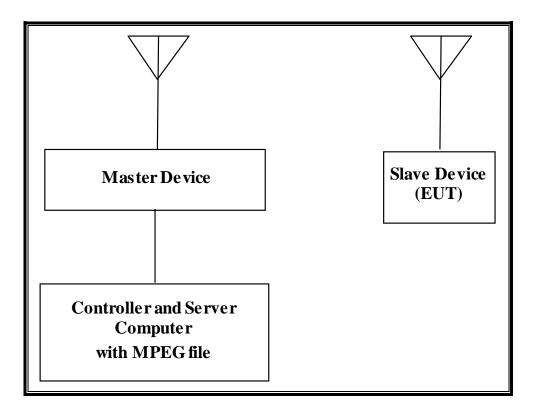
ENVIRONMENT CONDITION

| Parameter | Value |
|-------------|------------------|
| Temperature | 23.7 and 25.0 °C |
| Humidity | 41 and 44 % |

Page 15 of 110

8.1.5. SETUP OF EUT (CLIENT MODE)

RADIATED METHOD EUT TEST SETUP



SUPPORT EQUIPMENT

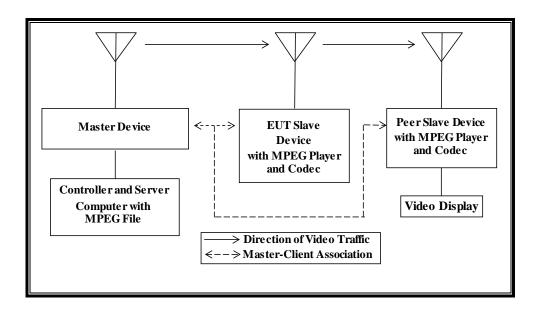
The following support equipment was utilized for the tests documented in this report:

| PERIPHERAL SUPPORT EQUIPMENT LIST | | | | | | |
|-----------------------------------|--------------|-------|---------------|----------|--|--|
| Description | Manufacturer | Model | Serial Number | FCC ID | | |
| 802.11a/b/g/n/ac Wireless | Apple | A1521 | C86PJ5RUFJ1R | BCGA1521 | | |
| Router (Master Device) | | | | | | |
| Notebook PC | Apple | A1708 | C02VQ6D6HV27 | DoC | | |
| (Controller/Server) | | | | | | |

Page 16 of 110

8.1.6. SETUP OF EUT (CLIENT TO CLIENT MODE)

RADIATED METHOD EUT TEST SETUP WHEN MONITORING THE EUT



SUPPORT EQUIPMENT

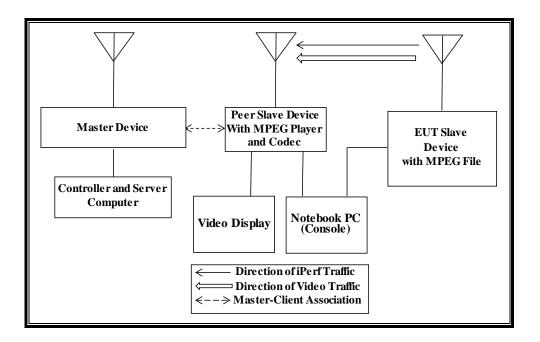
The following support equipment was utilized for the tests documented in this report:

| PERIPHERAL SUPPORT EQUIPMENT LIST | | | | | | | |
|-----------------------------------|--------------|------------|---------------|----------|--|--|--|
| Description | Manufacturer | Model | Serial Number | FCC ID | | | |
| 802.11a/b/g/n/ac Wireless | Apple | A1521 | C86PJ5RUFJ1R | BCGA1521 | | | |
| Router (Master Device) | | | | | | | |
| Notebook PC | Apple | A1708 | C02VQ6D6HV27 | DoC | | | |
| (Controller/Server) | | | | | | | |
| Apple TV (Peer Slave Device) | Apple | A1842 | C0HW3DN4J1WF | BCGA1842 | | | |
| 15" LCD TV (Video Display) | Polaroid | TLX-01511C | 02006 | DoC | | | |

Page 17 of 110

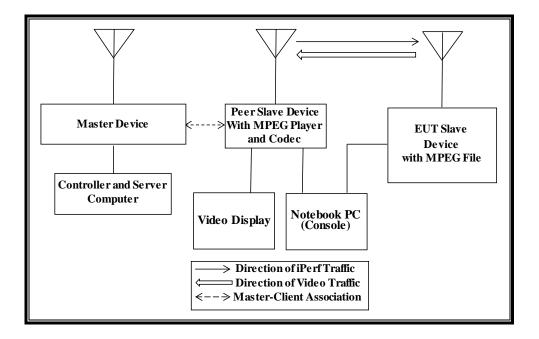
8.1.7. SETUP OF EUT (PEER TO PEER MODE)

RADIATED METHOD EUT TEST SETUP WHEN MONITORING THE EUT



Page 18 of 110

RADIATED METHOD EUT TEST SETUP WHEN MONITORING THE PEER SLAVE DEVICE)



SUPPORT EQUIPMENT

The following support equipment was utilized for the tests documented in this report:

| PERIPHERAL SUPPORT EQUIPMENT LIST | | | | | | | |
|-----------------------------------|--------------|------------|---------------|----------|--|--|--|
| Description | Manufacturer | Model | Serial Number | FCC ID | | | |
| 802.11a/b/g/n/ac Wireless | Apple | A1521 | C86PJ5RUFJ1R | BCGA1521 | | | |
| Router (Master Device) | | | | | | | |
| Notebook PC | Apple | A1708 | C02VQ6D6HV27 | DoC | | | |
| (Controller/Server) | | | | | | | |
| Apple TV (Peer Slave Device) | Apple | A1842 | DY3ZM2D5J1WF | BCGA1842 | | | |
| Notebook PC (Peer Console) | Apple | A1708 | C02VT5DTHV22 | DoC | | | |
| 15" LCD TV (Video Display) | Polaroid | TLX-01511C | 02006 | DoC | | | |

Page 19 of 110

8.1.8. DESCRIPTION OF EUT

For FCC the EUT operates over the 5250-5350 MHz and 5470-5725 MHz ranges.

For ISED the EUT operates over the 5250-5350 MHz and 5470-5725 MHz ranges, excluding the 5600-5650 MHz range.

The EUT is a Slave Device without Radar Detection.

Slave EUT EIRP, maximum conducted output power, antenna assembly gain and TPC information can be found in the RF report referenced in section 4 of this report.

The rated output power of the Master unit is > 23dBm (EIRP). Therefore the required interference threshold level is -64 dBm. After correction for procedural adjustments, the required radiated threshold at the antenna port is -64 + 1 = -63 dBm.

The calibrated radiated DFS Detection Threshold level is set to –64 dBm. The tested level is lower than the required level hence it provides a margin to the limit.

Two antennas are utilized to meet the diversity and MIMO operational requirements.

The EUT uses two transmitter/receiver chains, each connected to an antenna to perform radiated tests.

In **Standard Client Mode** WLAN traffic that meets or exceeds the minimum required loading was generated by streaming the compressed version of the video test file "6 ½ Magic Hours" from the Master to the Slave using OPlayer media player.

In **Client to Client mode** WLAN traffic is generated by streaming the compressed version of the video test file "6 ½ Magic Hours" from the Master to the Slave and then on to the peer slave device in full motion video mode using OPlayer media player and embedded proprietary AirPlay software.

In **Peer to Peer mode while monitoring the EUT**, WLAN traffic is generated with the combination of streaming the compressed version of the video test file "6 ½ Magic Hours" from the EUT to the Peer Slave Device in full motion video mode using OPlayer media player and embedded proprietary AirPlay software and Iperf from the EUT to the Peer Slave Device.

Page 20 of 110

In **Peer to Peer mode while monitoring the Peer Slave Device**, WLAN traffic is generated with the combination of streaming the compressed version of the video test file "6 ½ Magic Hours" from the EUT to the Peer Slave Device in full motion video mode using OPlayer media player and embedded proprietary AirPlay software and Iperf from the Peer Slave Device to the EUT.

While performing **Peer to Peer Mode** testing only the Peer Slave Device is associated to the Master Device.

Peer to Peer Mode has been reviewed and approved as compliant with the DFS requirements for client devices by the FCC via KDB inquiry. The inquiry confirmed that the test cases used adequately demonstrate compliance with DFS requirements for client devices.

The EUT utilizes the 802.11a/b/g/n/ac/ax architecture. Three nominal channel bandwidths are implemented: 20 MHz, 40 MHz and 80 MHz.

The manufacturer declares that Channel Puncturing is not supported.

The software installed in the EUT is 20A282.

The software installed in the access point is revision 7.7.9.

UNIFORM CHANNEL SPREADING

This function is not required per KDB 905462.

OVERVIEW OF MASTER DEVICE WITH RESPECT TO §15.407 (h) REQUIREMENTS

The Master Device is an Apple, Inc. Access Point, FCC ID: BCGA1521. The minimum antenna gain for the Master Device is 1.4 dBi.

The rated output power of the Master unit is > 23dBm (EIRP). Therefore the required interference threshold level is -64 dBm. After correction for procedural adjustments, the required radiated threshold at the antenna port is -64 + 1 = -63 dBm.

The calibrated radiated DFS Detection Threshold level is set to –64 dBm. The tested level is lower than the required level hence it provides a margin to the limit.

The software installed in the access point is revision 7.7.9.

Page 21 of 110

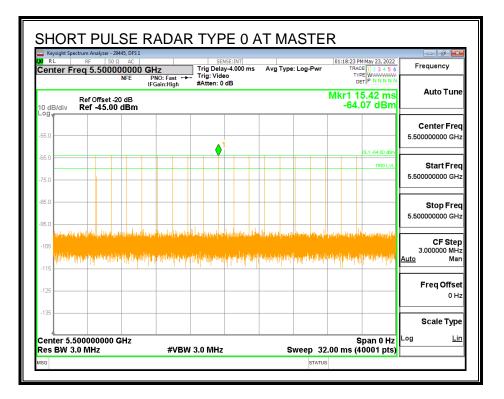
8.2. CLIENT MODE RESULTS FOR 20 MHz BANDWIDTH

8.2.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5500 MHz.

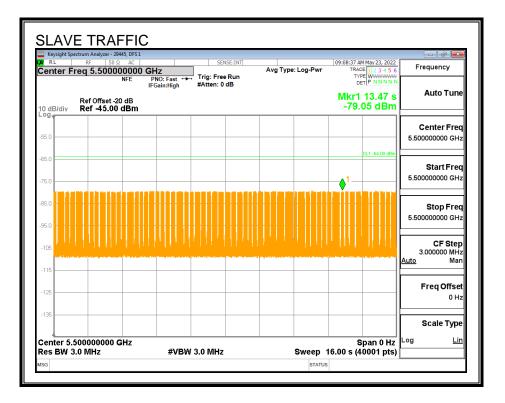
8.2.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



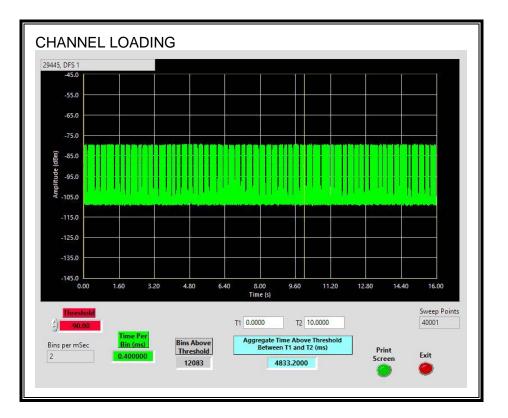
Page 22 of 110

TRAFFIC



Page 23 of 110

CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 48.33%

Page 24 of 110

8.2.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

8.2.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

| Channel Move Time | Limit |
|-------------------|-------|
| (sec) | (sec) |
| 0.1044 | 10 |

| Aggregate Channel Closing Transmission Time | Limit |
|---|--------|
| (msec) | (msec) |
| 0.0 | 60 |

Page 25 of 110

MOVE TIME

| | m Analyzer - 29445, DFS | | | | | |
|---------------------------|-------------------------------------|---------------------------------------|--------------------------------|------------------------------------|---|------------------------|
| | RF 50 Ω AC | | SENSE:INT | Avg Type: Log-Pwr | 09:18:26 AM May 23, 2022 TRACE 1 2 3 4 5 6 | Frequency |
| enter Freu | 1 5.50000000 NFE | JU GHZ PNO: Fast ↔ IFGain:High | Trig: Free Run #Atten: 0 dB | Avg type. Log-t | TYPE WWWWWW DET P NNNN | |
| | tef Offset -20 dB tef -45.00 dBm | | | Δ | Mkr1 104.4 ms -16.95 dB | Auto Tune |
| og | | · · · · · · · · · · · · · · · · · · · | | | | |
| 55.0 | <i>.</i> | | | | DL1 -64.00 dBm | Center Freq |
| | 2 1Δ2 | | | | | 5.50000000 GHz |
| 75.0 | §'*** | | + + | | | |
| 85.0 | | | + | | | Start Freq |
| 95.0 | Later states and | e data a national d | and the state card to | illell'interestition, methodologia | | 5.50000000 GHz |
| -105 | INCOMPANY AND AND ADDR | AND DESCRIPTION OF THE OWNER. | | | ALMA-ANTHAL-OPPORTUNITY | |
| -115 | + | | | | | Stop Fred |
| -125 | + | | | | I | 5.50000000 GHz |
| -135 | | | | | | 5.50000000 5112 |
| | 000000 GHz | | | | On on O Ha | 0.5.01 |
| enter 5.500 Res BW 3.0 | | #VB) | N 3.0 MHz | Sweep ' | Span 0 Hz 16.00 s (40001 pts) | CF Step 3.000000 MH |
| MKRI MODEL TROLS | | | | | | Auto Mar |
| 1 Δ2 1 1 | t (Δ) | 104.4 ms (Δ) |) -16.95 dB | UNCTION FUNCTION WIDTH | FUNCTION VALUE | |
| | t | 1.514 s | -64.07 dBm | | | Freq Offse |
| 4 | | | | | | 0 H |
| 5 6 | | | | | E | |
| 7 | | | | | | Scale Type |
| | | | | | | Scale Type |
| 9 | | | | | | Log Lir |
| 9 10 11 | | | | | - | |

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Page 26 of 110

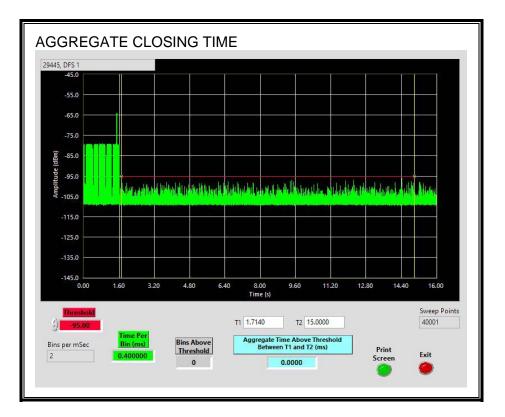
CHANNEL CLOSING TIME

| Keysight Spectrum Analyzer - 29445, DFS 1 RL RF 50 Ω AC | | E:INT | 09:24:08 AM May 23, 2022 | Frequency |
|--|---|---|---|---|
| enter Freq 5.50000000 | PNO: Fast → Trig: Video IFGain:High #Atten: 0 d | | TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N N | Frequency |
| Ref Offset -20 dB 0 dB/div Ref -45.00 dBm | ii Ganningii | | ∆Mkr1 200.0 ms -38.37 dB | Auto Tune |
| og | | | | Center Free |
| 55.0 | | | DL1 -64.00 dBm | 5.50000000 GH |
| 66.0 2 | | | TRIG LVL | Start Free |
| 75.0 | | | | 5.50000000 GH; |
| 35.0 1111 1111 1111 1111 1111 1111 1111 1 | | | | Stop Fred 5.50000000 GH |
| ^{25.0} | 1Δ2 all parts | George Carter, but the entropy and that a death provided to prove | Internet in a scalar or a statistic or operations | |
| 105 alisekszerentesteksetesteksetesteksetest | yad anika ito, manana alika kafan Saki, ankarana kata kata kata kata kata kata kata k | | dan), di haran ya gi sa bada yi ya ang ya na ki na na Abawa Abawa | CF Step 3.000000 MH <u>Auto</u> Mar |
| 125 | | | | Freq Offse |
| 135 | | | | |
| | | | | Scale Type |
| Center 5.500000000 GHz Res BW 3.0 MHz | #VBW 3.0 MHz | | Span 0 Hz 00.0 ms (40001 pts) | Log <u>Lir</u> |

Page 27 of 110

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



Page 28 of 110

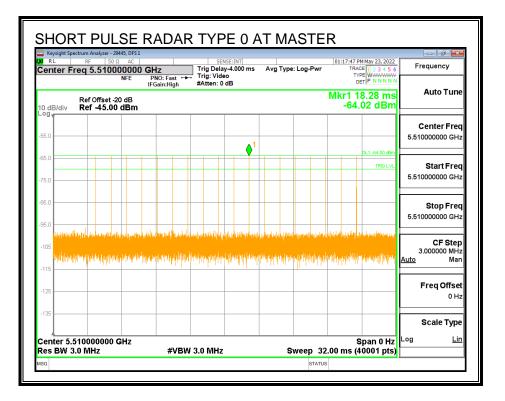
8.3. CLIENT MODE RESULTS FOR 40 MHz BANDWIDTH

8.3.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5510 MHz.

8.3.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



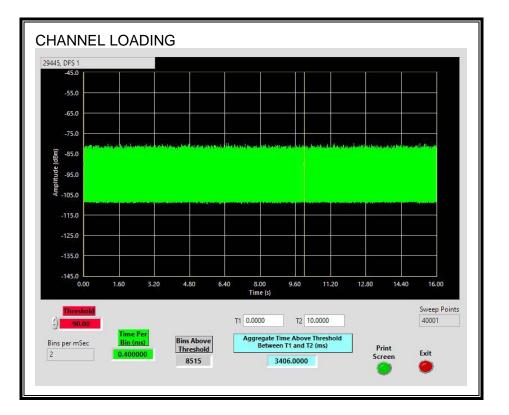
Page 29 of 110

TRAFFIC

| XI RL | RF 50 Q AC | | | | |
|----------------------|---------------------------------------|--|------------------|--|--|
| | RF 50 Ω AC Freq 5.510000000 NFE | | Avg Type: Log-Pw | 09:27:16 AM May 23 TRACE 1 2 3 TYPE WWW DET P N I | Frequency |
| I0 dB/div | Ref Offset -20 dB Ref -45.00 dBm | | | Mkr1 6.50 -79.58 d | |
| -og | | | | | Center Freq |
| -55.0 | | | | | 5.510000000 GHz |
| -65.0 | | | | DL1 -64 | 00 dBm |
| -75.0 | | .1 | | | Start Freq 5.51000000 GHz |
| | | , underst alle and taken a state for the set of the set | | | |
| -85.0 | | | | | |
| -95.0 | | | | | Stop Freq 5.510000000 GHz |
| -105 | | | | | |
| .95.0 | | | | | 5.51000000 GHz CF Step 3.000000 MHz <u>Auto</u> Man |
| -105 | | | | | 5.510000000 GHz CF Step 3.000000 MHz |
| 95.0 -105 -115 | | | | | 5.51000000 GHz CF Step 3.00000 MHz Auto Man |

Page 30 of 110

CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 34.06%

Page 31 of 110

8.3.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

8.3.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

| Channel Move Time | Limit |
|-------------------|-------|
| (sec) | (sec) |
| 0.0952 | 10 |

| Aggregate Channel Closing Transmission Time | Limit |
|---|--------|
| (msec) | (msec) |
| 0.0 | 60 |

Page 32 of 110

MOVE TIME

| | ım Analyzer - 29445, D | | | | | |
|---|--|---------------------|--------------------------------|---|---|--|
| RL | RF 50 Ω A q 5.5100000 | | SENSE:INT | Avg Type: Log-Pwr | 09:36:34 AM May 23, 2022 TRACE 1 2 3 4 5 6 | Frequency |
| | 4 5.5 100000 NFE | | | | DET P N N N N | |
| | Ref Offset -20 dE Ref -45.00 dB | | | Δ | Mkr1 95.20 ms -18.35 dB | Auto Tuno |
| 5.0 | | | | | | 0 |
| | ×2 | | | | DL1 -64.00 dBm | Center Free 5.51000000 GH |
| 5.0 | Δ ² 1Δ2 | | | | | 5.51000000 GH |
| 5.0 and all all only | | | | | | Start Free |
| 5.0 | ปลายปลายปลายปลายปลายปลายปลายปลายปลายปลาย | | an altack adara abaa b | and public states been de la persona da | eladoradas, atasted das | 5.510000000 GH |
| 05 | han a cruit a chuile | na na sa na na | la nanala an dahlar dahlarakat | and distribution of the solution of the first solution of the | et trak motorovististist | |
| 15 | | | | | | Stop Free |
| 35 | | | | | | 5.51000000 GH |
| | | | | | | |
| | | | | | | |
| enter 5.51 | 0000000 GHz MHz | | BW 3.0 MHz | Sweep 1 | Span 0 Hz 6.00 s (40001 pts) | |
| enter 5.51 es BW 3.0 | MHz | #V | Y | Sweep 1 | | 3.000000 MH |
| enter 5.51 es BW 3.0 R MODE TROP 1 Δ2 1 2 F 1 | MHz | #V | Y | • | 6.00 s (40001 pts) | 3.000000 MH <u>Auto</u> Mar |
| enter 5.51 es BW 3.0 KR MODE TRG 1 A2 1 2 F 1 3 | MHz seu | #V × 95.20 ms | Υ (Δ) -18.35 dB | • | 6.00 s (40001 pts) | 3.000000 MH <u>Auto</u> Ma Freq Offse |
| enter 5.51 es BW 3.0 R MODE TROE 1 A2 1 2 F 1 3 4 5 6 | MHz seu | #V × 95.20 ms | Υ (Δ) -18.35 dB | • | 6.00 s (40001 pts) | 3.000000 MH <u>Auto</u> Ma Freq Offse |
| enter 5.51 es BW 3.0 TRE BW 3.0 TRE TRE TRE TRE TRE TRE TRE TRE TRE TRE TRE | MHz seu | #V × 95.20 ms | Υ (Δ) -18.35 dB | • | 6.00 s (40001 pts) | 3.00000 MH <u>Auto</u> Mar Freq Offse 0 H |
| enter 5.51 es BW 3.0 1 A2 1 2 F 1 3 4 5 6 7 | MHz seu | #V × 95.20 ms | Υ (Δ) -18.35 dB | • | 6.00 s (40001 pts) | CF Step 3.00000 MH: <u>Auto</u> Mar Freq Offse 0 H: Scale Type Log Lir |

Page 33 of 110

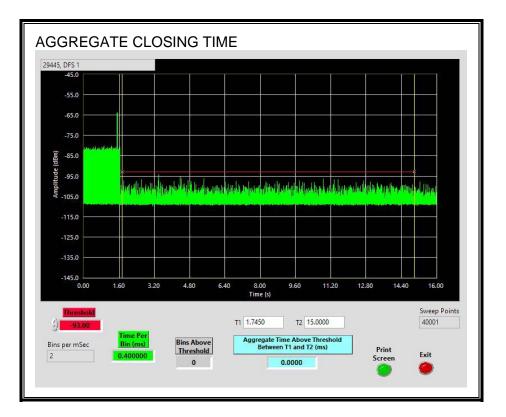
CHANNEL CLOSING TIME

| enter Freq 5.51000000 (| SENSE:INT GHz PNO: Fast ↔ Trig: Video | Avg Type: Log-Pwr | 09:42:40 AM May 23, 2022 TRACE 1 2 3 4 5 6 TYPE WWWWWW | Frequency |
|-------------------------|---|-------------------|--|---|
| Ref Offset -20 dB | IFGain:High #Atten: 0 dB | Δ | /kr1 200.0 ms -37.40 dB | Auto Tune |
| 5.0 | | | | Center Free 5.510000000 GH: |
| 5.0 2 | | | DL1 -64.00 dBm TRIG LVL | Start Free 5.51000000 GH |
| | | | 4.4 | Stop Free 5.510000000 GH: |
| | | | integrate de une disse à l'hort referencemble, d'affice | CF Step 3.000000 MH <u>Auto</u> Mar |
| 125 | | | | Freq Offse 0 H |
| 135 | | | | Scale Type |

Page 34 of 110

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



Page 35 of 110

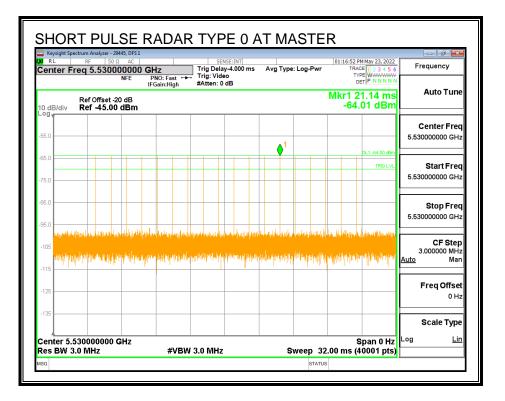
8.4. CLIENT MODE RESULTS FOR 80 MHz BANDWIDTH

8.4.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5530 MHz.

8.4.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



Page 36 of 110

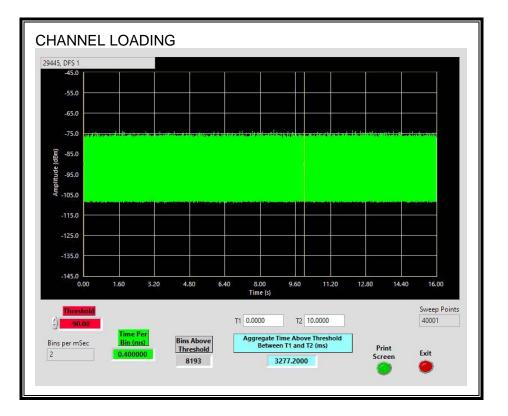
TRAFFIC

| | pectrum Analyzer - 29445, DFS 1 | | | | | |
|--------------------------|---|---------------------------------------|---|--|---|------------------------------|
| N RL Center F | RF 50 Ω AC |) GHz | SENSE:INT | Avg Type: Log-Pwr | 09:52:52 AM May 23, 2022 TRACE 1 2 3 4 5 6 | Frequency |
| | NFE | PNO: Fast +++ IFGain:High | Trig: Free Run #Atten: 0 dB | | DET P N N N N | |
| I0 dB/div | Ref Offset -20 dB Ref -45.00 dBm | | | | Mkr1 8.618 s -73.37 dBm | Auto Tune |
| og | | | | | | Center Freq |
| 55.0 | | | | | | 5.53000000 GHz |
| | | | | | DL1 -64.00 dBm | |
| 65.0 | | | ▲ 1 | | | Start Freq |
| 75.0 <mark>melibu</mark> | perspective Developmentation of hearing | enter filmenter solletter et person i | ana da ana ana ana ana ana ana ana ana a | la anti-anti-anti-anti-anti-anti-anti- | ni barnako katuaria katura | 5.530000000 GHz |
| 85.0 | | | | | | Oton From |
| | | | | | | Stop Freq 5.530000000 GHz |
| 95.0 | | | | | | |
| -105 | | | | | | CF Step 3.000000 MHz |
| | | | ng papang bermadalah (Arbita basar bermana) | | | Auto Mar |
| -115 | | | | | | |
| -125 | | | | | | Freq Offset 0 Hz |
| -135 | | | | | | |
| -135 | | | | | | Scale Type |
| Center 5 | 530000000 GHz | | | | Span 0 Hz | Log <u>Lin</u> |
| Res BW | | #VBW 3 | | Sween | 16.00 s (40001 pts) | |

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Page 37 of 110

CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 32.77%

Page 38 of 110

8.4.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

8.4.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

| Channel Move Time | Limit |
|-------------------|-------|
| (sec) | (sec) |
| 3.497 | 10 |

| Aggregate Channel Closing Transmission Time | Limit |
|---|--------|
| (msec) | (msec) |
| 2.8 | 60 |

Page 39 of 110

MOVE TIME

| enter F | RE 50 Q A | DFS 1 | SENSE:INT | | 09:56:13 AM May 23, 2022 | |
|--|------------------------------------|-----------------------------|--------------------------------|--------------------------------------|----------------------------------|--|
| | reg 5.5300000 | 00 GHz | | Avg Type: Log-Pwr | TRACE 1 2 3 4 5 6 TYPE WWWWWW | Frequency |
| | NFE | E PNO:Fast ↔ IFGain:High | #Atten: 0 dB | | DET P NNNN | |
| I0 dB/div | Ref Offset -20 dl Ref -45.00 dE | | | | ∆Mkr1 3.497 s -25.39 dB | Auto Tune |
| -og | | | | | | Center Fred |
| 65.0 | | | | | DL1 -64.00 dBm | 5.53000000 GHz |
| -75.0 | itter av | ▲1∆2 | | | | |
| 85.0 95.0 | 1 1 | | | | | Start Fred |
| -105 | alignathpathpath | al-theory of the former | e ha harang hitu dalam ta pina | all pelosely all the respector weats | Middaeging Upplaining of | 5.530000000 GH |
| -115 | | | | | | 04 F |
| -125 | | | | | | Stop Fred 5.530000000 GH; |
| -135 | | | | | | 0.00000000000 |
| | | 7 | | | Span 0 Hz | CF Step |
| | .530000000 GH | | | _ | | |
| Res BW | 3.0 MHz | #VBV | V 3.0 MHz | • | 16.00 s (40001 pts) | 3.000000 MHz <u>Auto</u> Man |
| Res BW | 3.0 MHz <u> Rescu</u> 1 t (Δ) | #VBV × 3.497 s (Δ) | Y FU -25.39 dB | Sweep | | 3.000000 MHz |
| Res BW <u>ΜKR Mode</u> <u>1</u> Δ2 2 F 3 | 3.0 MHz | #VBV | Y FL | • | 16.00 s (40001 pts) | 3.000000 MH <u>Auto</u> Mar Freq Offse |
| Res BW 1 Δ2 2 F 3 4 5 | 3.0 MHz <u> Rescu</u> 1 t (Δ) | #VBV × 3.497 s (Δ) | Y FU -25.39 dB | • | 16.00 s (40001 pts) | 3.000000 MH: <u>Auto</u> Mar |
| Res BW <u>1 Δ2</u> 2 F 3 4 | 3.0 MHz <u> Rescu</u> 1 t (Δ) | #VBV × 3.497 s (Δ) | Y FU -25.39 dB | • | 16.00 s (40001 pts) | 3.000000 MH <u>Auto</u> Mar Freq Offse |

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Page 40 of 110

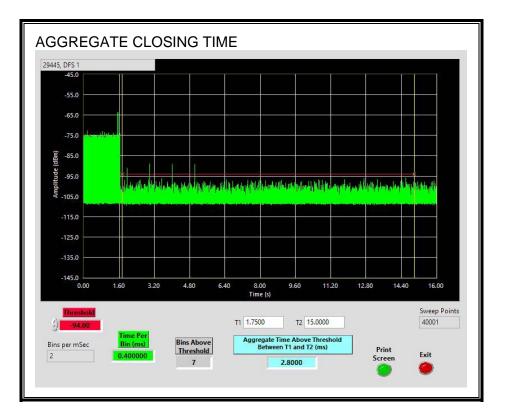
CHANNEL CLOSING TIME

| Keysight Spectrum Analyzer - 29445, DFS 1 RL RF 50 Ω AC enter Freq 5.530000000 C | SHZ PNO: Fast ↔ Trig: Video | INT Avg Type: Log-Pwr | 09:59:47 AM May 23, 2022 TRACE 1 2 3 4 5 6 TYPE WWWWWW | Frequency |
|---|--------------------------------|---|--|---|
| Ref Offset -20 dB dB/div Ref -45.00 dBm | FGain:High #Atten: 0 dB | | ΔMkr1 200.0 ms -37.97 dB | Auto Tune |
| 6 .0 | | | | Center Free 5.530000000 GH: |
| 6.0 X 2 | | | DL1 -64.00 dBm | |
| 75.0 | | | TRIG LVL | Start Free 5.530000000 GH |
| 5.0 | | | | Stop Fred 5.530000000 GH: |
| | | وملحوا فترجيا فالمتحافظ الاراطة بومجوع أواسا إم | and the second | |
| 105 2344 (1997) - 2007 | | endergenetigieligen poweie wiedergenerwie werden gebeieren is | nez y y ha postere finan yek en ray an ditera yek en i ya baran. | CF Step 3.000000 MH <u>Auto</u> Mar |
| 125 | | | | Freq Offse 0 Hi |
| 136 | | | | Scale Type |
| enter 5.530000000 GHz | | | Span 0 Hz | Log <u>Lir</u> |

Page 41 of 110

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.



Page 42 of 110

8.4.5. 30-MINUTE NON-OCCUPANCY PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 30-minute observation time.

| Kej R | | | n Analyz RF | er - 2944 50 Ω | 5, DFS 1 AC | | | 9 | ENSE:INT | | | 10:40:39 / | M May 23, 2022 | - # <u>*</u> |
|------------|-------|-------|-------------------|-------------------|----------------|--------|--------|--|-----------|-------------|-------------|---|---|--|
| en | ter l | Freq | 5.53 | 3000 | 0000 C | | Fast ↔ | | ee Run | Avg Typ | e: Log-Pwr | TRA T) | CE 1 2 3 4 5 6 PE WWWWWWWW ET P N N N N N | Frequency |
| 0 dE | 3/div | | ef Offs ef -45 | | dB | - Guin | | | | | | | 1.800 ks 8.04 dB | Auto Tune |
| | | | | | | | | | | | | | | Center Free |
| 5.0 | | | | | | | | | | | | | DL1 -64.00 dBm | 5.530000000 GH |
| 5.0 5.0 | Jue. | | | | | | | | | | | | | Start Free 5.530000000 GH |
| 5.0 5.0 | | | | | | | | | | | | | | Stop Fre 5.530000000 GH |
| 105 | | (h)hy | n ti | shelpel | nn III de | rhiv | MA | ala per la | n hjihann | ohrpyhilada | Antophal Al | kin | | CF Stej 3.000000 MH <u>Auto</u> Ma |
| 125 | | | | | | | | | | | | | | Freq Offse 0 H |
| 135 | | | | | | _ | | | | | | | | Scale Type |
| en | ter 5 | .530 | 0000 | 00 G | Hz | | | | | | | | Span 0 Hz | Log <u>Li</u> |

Page 43 of 110

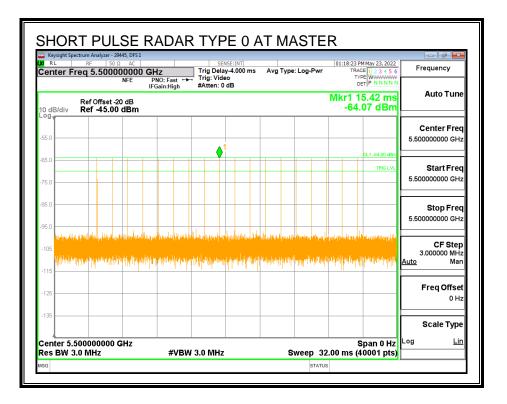
8.5. CLIENT-TO-CLIENT COMMUNICATIONS MODE RESULTS FOR 20 MHz BANDWIDTH

8.5.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5500 MHz.

8.5.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



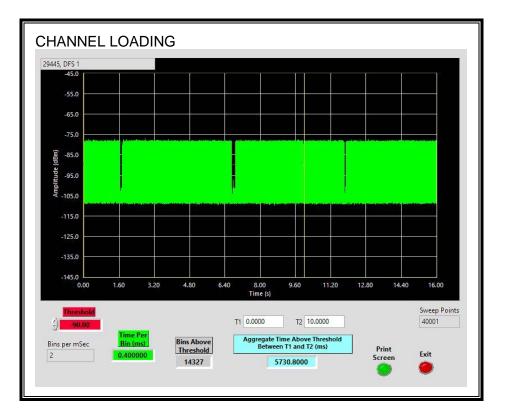
Page 44 of 110

TRAFFIC

| Keysight Sp RL | RF 50 Ω AC | | CENC | E:INT | | | 11:32:54 AM May 23, 2022 | |
|-----------------------|--|-------------------------|-------------|-------|-------------------------------|----------------|--|-------------------------------------|
| | req 5.500000000 | GHz PNO: Fast ↔ | | | Avg Type: | Log-Pwr | TRACE 1 2 3 4 5 6 TYPE WWWWWWW DET P N N N N | Frequency |
| | | IFGain:High | #Atten: 0 d | В | | | - | A |
| 0 dB/div | Ref Offset -20 dB Ref -45.00 dBm | | | | | | Mkr1 2.778 s -77.04 dBm | |
| .09 | | | | | | | | Center Freq |
| 55.0 | | | | | | | | 5.50000000 GHz |
| 65.0 | | | | | | | DL1 -64.00 dBm | |
| | .1 | | | | | | | Start Freq 5.50000000 GHz |
| 75.0 | •••••••••••••••••••••••••••••••••••••• | | | | | | | 5.50000000 GHz |
| 85.0 95.0 | | | | | | | | Stop Freq 5.500000000 GHz |
| -105 | | | ļ | | n du mata antista callo datas | and a strength | an a | CF Step 3.000000 MHz |
| -115 | | | | | | | | <u>Auto</u> Man |
| | | | | | | | | Freq Offset |
| -125 | | | | | | | | 0 Hz |
| -135 | | | | | | | | |
| | | | | | | | | Scale Type |
| Center 5. Res BW (| 500000000 GHz | <i>/// (</i> 1) | / 3.0 MHz | | | - | Span 0 Hz 16.00 s (40001 pts) | |

Page 45 of 110

CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 57.3%

Page 46 of 110

8.5.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

8.5.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

| Channel Move Time | Limit |
|-------------------|-------|
| (sec) | (sec) |
| 0.1108 | 10 |

| Aggregate Channel Closing Transmission Time | Limit |
|---|--------|
| (msec) | (msec) |
| 0.0 | 60 |

Page 47 of 110

MOVE TIME

| | ectrum Analyzer - 29445, [| | | | | × |
|----------|------------------------------------|-------------------------------|----------------------------------|-------------------------------|---|-------------------------|
| RL | RF 50 Ω A | | SENSE:INT | Avg Type: Log-Pwr | 11:36:36 AM May 23, 2022 TRACE 1 2 3 4 5 6 | Frequency |
| enter F | NFE | | ⊢ Trig: Free Run #Atten: 0 dB | Avg Type: Log-i m | TYPE WWWWWW DET P N N N N N | |
| 0 dB/div | Ref Offset -20 dl Ref -45.00 dE | | | Δ | Mkr1 110.8 ms -15.95 dB | Auto Tune |
| og | | | | | | |
| 55.0 | | | | | DL1 -64.00 dBm | Center Freq |
| 65.0 | 142 | | | | | 5.50000000 GHz |
| 75.0 | | | | | | |
| 35.0 | | | + | | | Start Fred |
| 95.0 | | | Access to the second second | L. I. Constants | aller a second and a second | 5.50000000 GHz |
| -105 | lan Anger | phoreth level of the holinest | a della decoder del dela desa | her schools fait the block of | A MALINA ANA ANA ANA ANA ANA ANA ANA ANA ANA | |
| -115 | | | | | | 24 |
| -125 | | | | _ | | Stop Fred |
| -135 | | | ļ | | | 5.50000000 GH |
| | | | | | | |
| | 500000000 GH | | | - | Span 0 Hz | CF Step |
| tes BW (| 3.0 MHz | #VBV | N 3.0 MHz | • | 6.00 s (40001 pts) | 3.000000 MH Auto Mar |
| | RC SCL 1 t (Δ) | X 110.8 ms (Δ) | | UNCTION FUNCTION WIDTH | FUNCTION VALUE | <u>Auto</u> |
| 2 F | t (Δ) | 110.8 ms (Δ) 1.614 s | -15.95 dB -63.83 dBm | | | F 0# |
| 3 | | | | | | Freq Offse |
| 5 | | | | | E | 0 H: |
| 6 7 | | | | | | |
| 8 | | | | | | Scale Type |
| | | | | | | Log Lir |
| 10 | | | | | | |

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Page 48 of 110

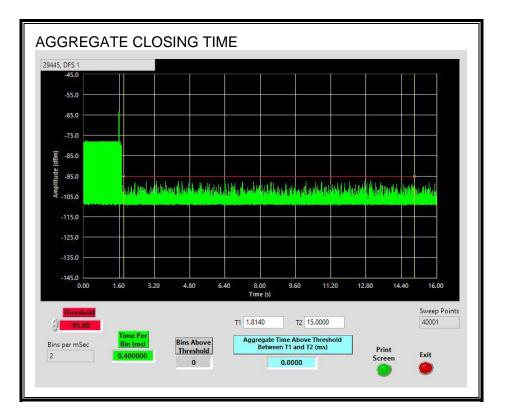
CHANNEL CLOSING TIME

| Keysight Spectrum Analyz R L RF | 50 Ω AC | | SENSE:INT | | 11:40:10 AM May 23, 2022 | Frequency |
|------------------------------------|-----------------------|----------------|-------------------------|--|---|------------------------------|
| enter Freq 5.50 | NFE | PNO: East 🗰 Tr | ig: Video tten: 0 dB | Avg Type: Log-Pwr | TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N | |
| dB/div Ref -45 | et -20 dB 5.00 dBm | | | Δ | Mkr1 200.0 ms -37.18 dB | Auto Tune |
| og | | | | | | Center Free |
| 5.0 | | | | | | 5.500000000 GH |
| 5.0 | | | | | DL1 -64.00 dBm | |
| 5.0 | | | | | TRIG LVL | Start Free 5.500000000 GH |
| A | | | | | | |
| 5.0 | | | | | | Stop Free 5.50000000 GH |
| 6.0 | Malana and Markan | | والمقرور أنقلته وتلعره | | doors the product discontinuous and | |
| | | | | ann phi ta a ta ann a tha tha stàrt ann an tha pair (tha pair a tha tha ann an tha tha ann a | | OF Otos |
| | | | | | | Freq Offse |
| 125 | | | | | | 0 H |
| 135 | | | | | | Scale Type |
| enter 5.500000 | 00 GHz | | | | Span 0 Hz | Log <u>Lir</u> |

Page 49 of 110

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



Page 50 of 110

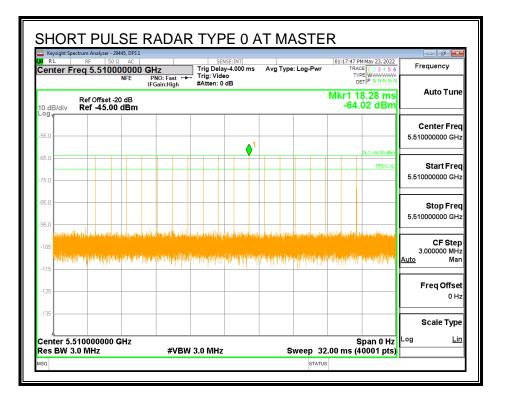
8.6. PEER TO PEER MODE EUT RESULTS FOR 40 MHz BANDWIDTH

8.6.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5510 MHz.

8.6.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



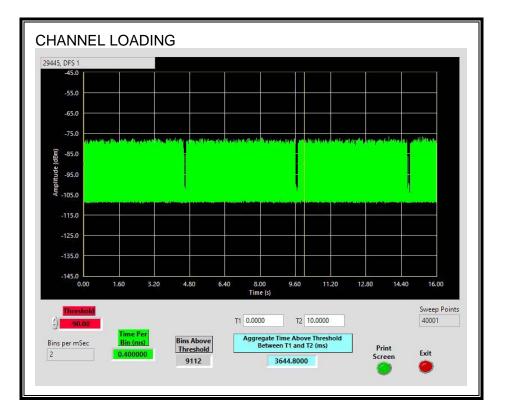
Page 51 of 110

TRAFFIC

| RL | opectrum Analyzer - 29445, DFS 1 | | | | | | |
|--------------|--|-----------------------------|-----------------------------------|--|--------------------------|---|---|
| | RF 50 Ω AC Freq 5.510000000 | GHz | SENSE:I | Avg Typ | e: Log-Pwr | 11:41:36 AM May 23, 2022 TRACE 1 2 3 4 5 6 | Frequency |
| | NFE | PNO: Fast ++ IFGain:High | Trig: Free Ru #Atten: 0 dB | n | | | |
| 0 dB/div | Ref Offset -20 dB Ref -45.00 dBm | 5 | | | | Mkr1 15.38 s -76.48 dBm | Auto Tune |
| .og | | | | | | | Center Freg |
| 55.0 | | | | | | | 5.510000000 GHz |
| | | | | | | DL1 -64.00 dBm | |
| 65.0 | | | | | | 0C1 -64.00 dbm | Otoret From |
| | | | | | | ▲ 1 | Start Freq 5.510000000 GHz |
| 75.0 | ing the state of the science of the state | والمتعاد الالتحاصي والتط | ويريقان أرجانا والعادي والتراجع | ana aka tata di sama kin dalara | salsala artanda | ومعاطراتهم وعرمته المرمو ومعار | |
| -85.0 | | | | | | | |
| 95.0 | | | | | | | Stop Freq 5.510000000 GHz |
| | | | | - | | | 5.510000000 GHz |
| -105 | Na de la seconda de la contra de | | upus telesense konstantingen kast | ng at success freque for business from | na, státicent teta al co | | 5.510000000 GHz CF Step 3.000000 MHz |
| | | | | | | | 5.510000000 GHz |
| -105 | | | | | | | 5.51000000 GHz CF Step 3.000000 MHz <u>Auto</u> Man |
| -105 | | | | | | | 5.51000000 GHz CF Step 3.000000 MHz <u>Auto</u> Man |
| -105 | | | | | | | 5.51000000 GHz CF Step 3.000000 MHz <u>Auto</u> Man |
| -105 -115 | | | | | | | 5.51000000 GHz CF Step 3.00000 MHz <u>Auto</u> Man Freq Offset 0 Hz |
| -105 | .51000000 GHz | | | | | Span 0 Hz | 5.510000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz Scale Type |

Page 52 of 110

CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 36.44%

Page 53 of 110

8.6.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

8.6.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

| Channel Move Time | Limit |
|-------------------|-------|
| (sec) | (sec) |
| 0.052 | 10 |

| Aggregate Channel Closing Transmission Time | Limit |
|---|--------|
| (msec) | (msec) |
| 0.0 | 60 |

Page 54 of 110

MOVE TIME

| | pectrum Analyzer | | | | | | | | | ŀ | - 6 💌 |
|---------------|-----------------------|--------------------|--------------------------|----------------------------|-------------|-------------|---------------------|------------------|--------------------|-------------|--------------------|
| R Contor I | RF 5.510 | 50 Ω AC | CH- | SE | NSE:INT | Avg Type | l og-Pwr | | May 23, 2022 | Fre | quency |
| Jerner 1 | -Teq 5.5 IC | NFE | PNO: Fast IFGain:High | +++ Trig: Fre #Atten: (| | | | TYP | | | |
| 0 dB/div | Ref Offse Ref -45. | | | | | | Δ | | 2.00 ms 6.58 dB | | Auto Tune |
| og | | | | | | | | | | - | |
| -55.0 | ×,- | | | | | | | | DL1 -64.00 dBm | | enter Fred |
| .65.0 | 142 | | | | | | | | | 5.5100 | 000000 GH: |
| 75.0 | | | | | | | | | | | |
| 85.0 | | | | | | | | | | | Start Free |
| 95.0 | արդիսի | يعدا بالمريقة وتسا | iihushdil | ورقو فالعربه براقيا أألقو | a din shi a | Anton Maria | particular a librar | بليأبد وافالألمو | والمقابل بابتعانه | 5.5100 | 000000 GH: |
| -105 | | | | | | | | | | | |
| -115 | | | | | | | | | | | Stop Fred |
| -125 | | | | | | | | | | 5.5100 | 000000 GH; |
| -135 | | | | | | | | | | | |
| | .51000000 | 0 GHz | | I | | | | | pan 0 Hz | | CF Step |
| Res BW | 3.0 MHz | | #VE | 3W 3.0 MH2 | <u>'</u> | | Sweep 1 | 6.00 s (4 | 0001 pts) | 3.0 Auto | 00000 MH: Mar |
| MKR MODE | | Х | | Υ Δ) -16.58 | | NCTION FUN | CTION WIDTH | FUNCTIO | ON VALUE | Auto | Iniai |
| 1 Δ2 2 F | 1 t (Δ) 1 t | | 52.00 ms (. 1.579 s | Δ) -16.58 -64.09 d | | | | | | _ | |
| 3 | | | | | | | | | | | req Offsei 0 Ha |
| 5 | | | | | | | | | E | | 011. |
| 7 | | | | | | | | | | | |
| 8 9 | | | | | | | | | | S | cale Type |
| 10 11 | | | | | | | | | | Log | Lir |
| | | | | m | | | | | | | |

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Page 55 of 110

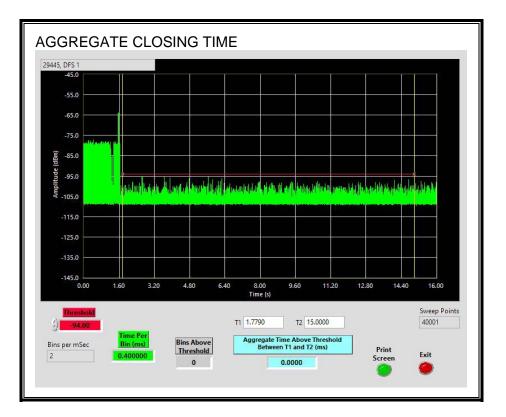
CHANNEL CLOSING TIME

| Keysight Spectrum Analyzer - 29445, DFS 1 RL RF 50 Ω AC enter Freq 5.510000000 6 | GHz SENSE:INT | Avg Type: Log-Pwr | 11:50:38 AM May 23, 2022 TRACE 1 2 3 4 5 6 | Frequency |
|--|---|---|--|---|
| NFE | PNO: Fast +++ Trig: Video IFGain:High #Atten: 0 dB | | DET P N N N N | |
| Ref Offset -20 dB | | ΔΝ | /kr1 200.0 ms -37.99 dB | Auto Tune |
| og | | | | Center Free |
| 5.0 | | | | 5.510000000 GH |
| 5.0 <mark>- X2</mark> | | | DL1 -64.00 dBm TRIG LVL | Start Free |
| 5.0 | | | | 5.510000000 GH |
| is.0 | | | | Stop Free |
| 5.0 | | | | 5.510000000 GH |
| olu IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | well, a lot le 122 and an il a margan | وواطفاهي والاستأنية والقاوية استالقا لاسواه | and the second state of the second state of the second second second second second second second second second | |
| 105 | n die en jaar een ze onder Allen einder van die bester van ander wit heer eerste die bester een die bester of s In die eerste die bester | sense, _{son als} par an èncai l _{a n} istère di phàna Menn, et a dabable non cò | | CF Step 3.000000 MH <u>Auto</u> Mar |
| | | | | Freq Offse |
| 125 | | | | 0 H |
| 135 | | | | Scale Type |
| enter 5.510000000 GHz | | | Span 0 Hz | |

Page 56 of 110

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



Page 57 of 110

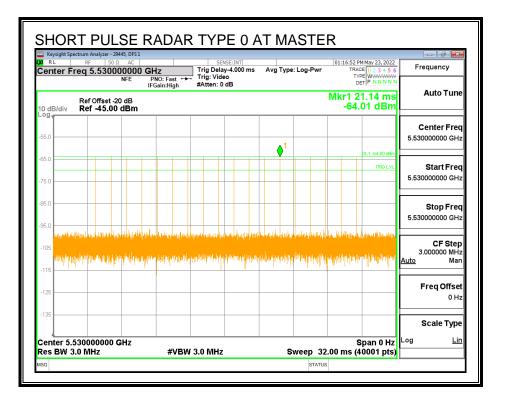
8.7. CLIENT-TO-CLIENT COMMUNICATIONS MODE RESULTS FOR 80 MHz BANDWIDTH

8.7.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5530 MHz.

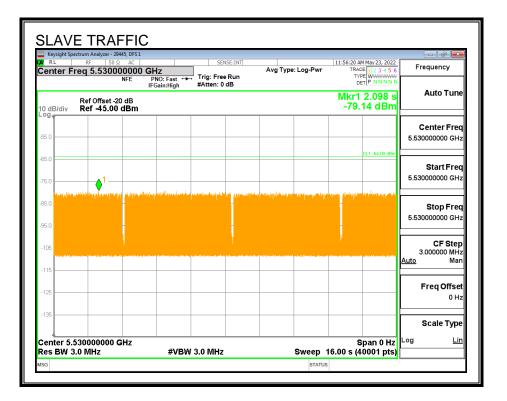
8.7.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



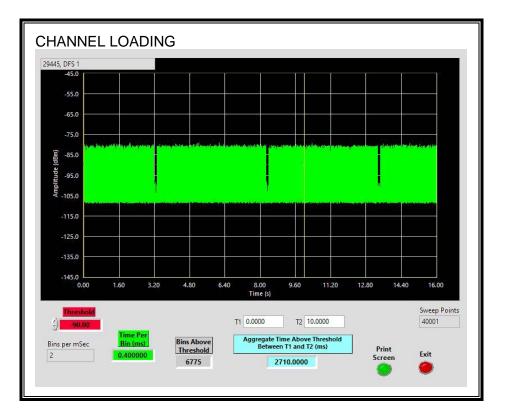
Page 58 of 110

TRAFFIC



Page 59 of 110

CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 27.1%

Page 60 of 110

8.7.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

8.7.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

| Channel Move Time | Limit |
|-------------------|-------|
| (sec) | (sec) |
| 4.095 | 10 |

| Aggregate Channel Closing Transmission Time | Limit |
|---|--------|
| (msec) | (msec) |
| 2.000 | 60 |

Page 61 of 110

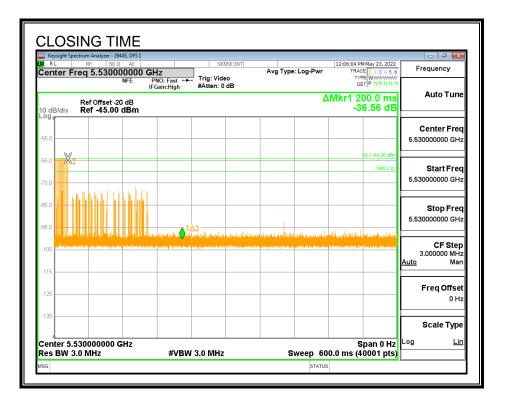
MOVE TIME

| Center F | | C | SENSE:INT | | | 12:01:53 PM Ma | | | |
|--|--|-----------------------|----------------------------|--------------------------|-----------------|---------------------|----------------|---|--|
| | Freq 5.5300000 | | Trig: Free Run | Avg Type: | Log-Pwr | TYPE | 23456 WWWWW | Frequency | |
| | | IFGain:High | #Atten: 0 dB | | | | NNNNN | Auto Tune | |
| 10 dB/div | Ref Offset 20 dB ΔMkr1 4.095 s D dB (div Pof_45 00 dBm -29.07 dB | | | | | | | | |
| og | Ref -45.00 dB | | | | | | | | |
| 55.0 | | | | | | DL1 | -64.00 dBm | Center Fred | |
| -65.0 | ² | | | | | | | 5.530000000 GHz | |
| | 11414 | | Δ2 | | | | | | |
| 95.0 | | 📍 | | | | | | Start Fred | |
| -105 | h direction der historie | ha a na shi paka mba | reputed at public in facto | al-have a star data with | All and the set | reducation | e politica più | 5.530000000 GHz | |
| -115 | | | | | | | | | |
| | | | | | | | | | |
| -125 | | | | | | | I | | |
| | | | | | | | | | |
| -135 | 5.530000000 GHz | 2 | | | | Spa | un 0 Hz | 5.530000000 GH | |
| Center 5 | 5.530000000 GHz 3.0 MHz | | BW 3.0 MHz | s | weep 1 | Spa 6.00 s (400 | 01 pts) | Stop Frec 5.53000000 GHz CF Step 3.000000 MHz | |
| -135 Center 5 Res BW | 3.0 MHz | #VI | Y | | Sweep 1 | | 01 pts) | 5.530000000 GHz | |
| -135 Center 5 Res BW | 3.0 MHz | #VI | Y | | · · | 6.00 s (400 | 01 pts) | 5.53000000 GH: CF Step 3.000000 MH: Auto Mar | |
| -135 Center 5 Res BW 1 Δ2 2 F 3 4 | 3.0 MHz | #VI × 4.095 s (| Υ Δ) -29.07 dB | | · · | 6.00 s (400 | 01 pts) | 5.53000000 GH; CF Step 3.000000 MH; | |
| -135 Center 5 Res BW 1 Δ2 2 F 3 4 5 6 | 3.0 MHz | #VI × 4.095 s (| Υ Δ) -29.07 dB | | · · | 6.00 s (400 | 01 pts) | 5.53000000 GH: CF Step 3.000000 MH: Auto Mar Freq Offset | |
| -135 Center 5 Res BW 1 Δ2 2 F 3 4 5 6 7 8 | 3.0 MHz | #VI × 4.095 s (| Υ Δ) -29.07 dB | | · · | 6.00 s (400 | 01 pts) | 5.53000000 GH: CF Step 3.000000 MH: Auto Mar Freq Offset | |
| -135 Center 5 Res BW MKR MODE 1 A2 2 F 3 4 5 6 7 | 3.0 MHz | #VI × 4.095 s (| Υ Δ) -29.07 dB | | · · | 6.00 s (400 | 01 pts) | 5.53000000 GH CF Ste 3.000000 MH <u>Auto</u> Ma Freq Offso 0 H | |

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Page 62 of 110

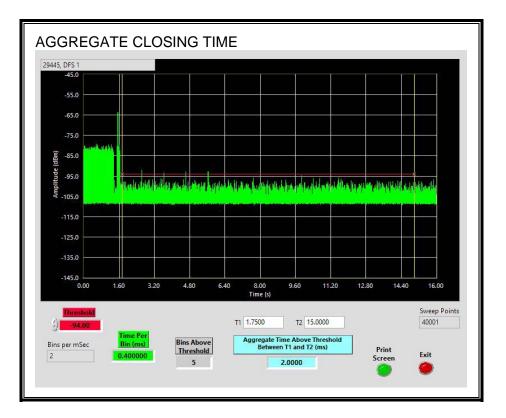
CHANNEL CLOSING TIME



Page 63 of 110

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.



Page 64 of 110

8.7.5. 30-MINUTE NON-OCCUPANCY PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 30-minute observation time.

| RL | | um Analyzer - 2 RF 50 | Ω AC | | SEM | NSE:INT | | | | M May 23, 2022 | Frequency |
|----------------|---------|-----------------------------|--------------------|--------------------------------------|-------------------------|---|----------|-------------|-----------|---|--|
| ent | ter Fre | q 5.5300 | | 1Z 'NO:Fast ↔ Gain:High | Trig: Free #Atten: 0 | | Avg Type | : Log-Pwr | TY | CE 1 2 3 4 5 6 PE WWWWWW ET P NNNNN | , |
| 0 dE | | Ref Offset -: Ref -45.00 | | | | | | | | 1.800 ks 5.65 dB | Auto Tune |
| | | | | | | | | | | | Center Free |
| 5.0 | | | | | | | | | | DL1 -64.00 dBm | 5.530000000 GH; |
| 5.0 5.0 | | | | | | | | | | | Start Free 5.53000000 GH: |
| 5.0 | | | | | | | | | | | Stop Free 5.53000000 GH; |
| 105 - 115 - | | n-had | n la lipel have an | puladaqqlat | ultu kaby | (an an a | | pri Holanda | w par hay | | CF Step 3.000000 MH <u>Auto</u> Mar |
| 125 | | | | | | | | | | | Freq Offse 0 H |
| 135 | | | | | | | | | | | Scale Type |
| enf | er 5.53 | 0000000 | GH7 | | | | | | 9 | Span 0 Hz | Log <u>Lir</u> |

Page 65 of 110

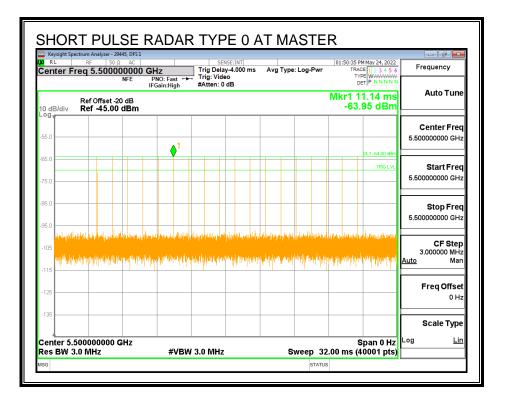
8.8. PEER TO PEER MODE EUT RESULTS FOR 20 MHz BANDWIDTH

8.8.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5500 MHz.

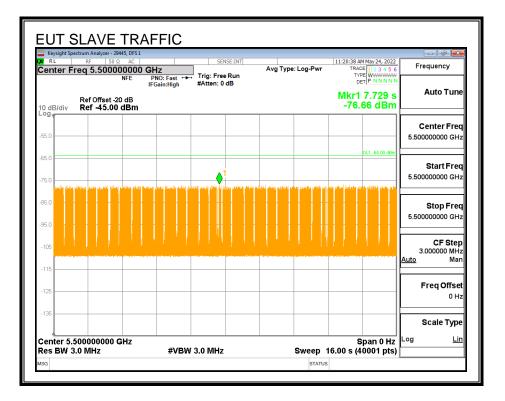
8.8.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



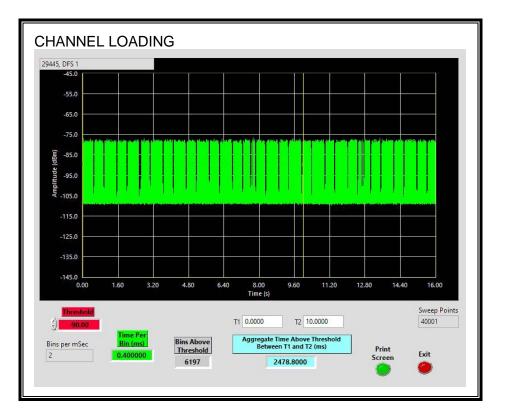
Page 66 of 110

TRAFFIC



Page 67 of 110

CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 24.78%

Page 68 of 110

8.8.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

8.8.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

| Channel Move Time | Limit |
|-------------------|-------|
| (sec) | (sec) |
| 0.148 | 10 |

| Aggregate Channel Closing Transmission Time | Limit |
|---|--------|
| (msec) | (msec) |
| 0.0 | 60 |

Page 69 of 110

MOVE TIME

| | ectrum Analyzer - 29445 | , DFS 1 | | | | | - 0 - × |
|-------------|---|------------------------------|-----------------------------|---------------------------------|----------------------------|---|-----------------|
| RL | RF 50 Ω | AC | SENSE: | | e: Log-Pwr | 11:26:11 AM May 24, 2022 TRACE 1 2 3 4 5 6 | |
| enter F | req 5.500000 N | FE PNO: Fast IFGain:High | | | e. Log-Pwi | | |
| I0 dB/div | Ref Offset -20 Ref -45.00 d | | | | Δι | /kr1 148.0 ms -17.46 dB | Auto Tune |
| og | | | | | | | |
| 55.0 | ×2 | | | | | DL1 -64.00 dBm | Center Fred |
| 65.0 | ∧2 ∧1∆2 | | | | | | 5.50000000 GHz |
| 75.0 | | | | | | | |
| 85.0 | | | | | | | Start Free |
| 95.0 | taldstate to | a sult to come ede he as | tana la sei tata Ella da sa | . Interface of the | ա լահմնեկ | alaha kasa kasa di di di di s | 5.50000000 GH |
| -105 | Insertions of stars | us a nalisk zentrik de stede | ter an indiation of the sec | A Description of the Arithmetic | dia amin'ny faritr'ora dia | n sa na kun sa ka kunana a | |
| -115 | | | | | | | Stop Free |
| -125 | | | | | | | 5.50000000 GH |
| -135 | | | | | | | |
| enter 5. | 500000000 GI | | | | | Span 0 Hz | CF Ster |
| tes BW 3 | 3.0 MHz | #V | BW 3.0 MHz | | Sweep 16 | 6.00 s (40001 pts) | 3.000000 MH |
| IKR MODE T | | Х | Y | FUNCTION FL | INCTION WIDTH | FUNCTION VALUE | <u>Auto</u> Mar |
| 1 Δ2 2 F | t (Δ) t | 148.0 ms 1.565 s | (Δ) -17.46 dB -63.98 dBm | | | | |
| 3 | | 1.000 0 | 00.00 0.011 | | | | Freq Offse |
| 4 5 | | | | | | = | 0 H: |
| 6 7 | | | | | | | |
| 8 | | | | | | | Scale Type |
| 9 10 | | | | | | | Log Lir |
| 11 | | | | | | | <u> </u> |

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Page 70 of 110

CHANNEL CLOSING TIME

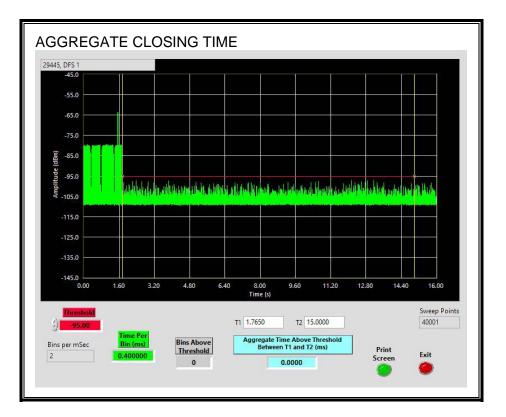
| Keysight Spectrum Analyzer - 29445, DFS 1 R L RF 50 Ω AC enter Freq 5.500000000 NFE | PNO: Fast +++ Trig: Video | Avg Type: Log-Pwr | 11:31:30 AM May 24, 2022 TRACE 1 2 3 4 5 6 TYPE WWWWWWW DET P N N N N N | Frequency |
|---|---------------------------|-------------------|--|--|
| Ref Offset -20 dB 0 dB/div Ref -45.00 dBm | IFGain:High #Atten: 0 dB | ۵ | Mkr1 200.0 ms -37.27 dB | Auto Tune |
| °g | | | | Center Free |
| | | | DL1 -64.00 dBm | 5.50000000 GH |
| ^{5.0} | | | TRIG LVL | Start Fred 5.500000000 GH; |
| ×.0 | | | | Stop Frec 5.50000000 GH; |
| | | | nalar, salah milaharah yan, ia milaha sa matambina di sa s | CF Step 3.000000 MH: <u>Auto</u> Mar |
| 125 | | | | Freq Offse 0 Ha |
| 135 | | | | Scale Type |
| enter 5.500000000 GHz es BW 3.0 MHz | #VBW 3.0 MHz | | Span 0 Hz 0.0 ms (40001 pts) | Log <u>Lir</u> |

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Page 71 of 110

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



Page 72 of 110

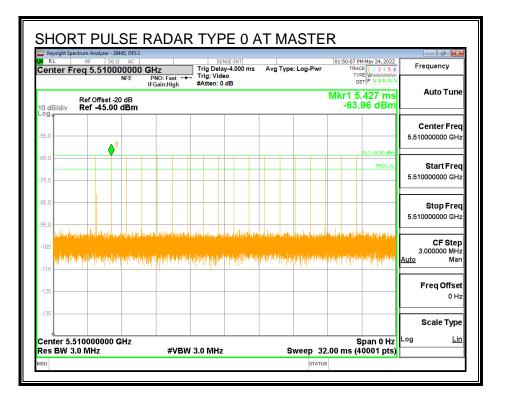
8.9. PEER TO PEER MODE EUT RESULTS FOR 40 MHz BANDWIDTH

8.9.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5510 MHz.

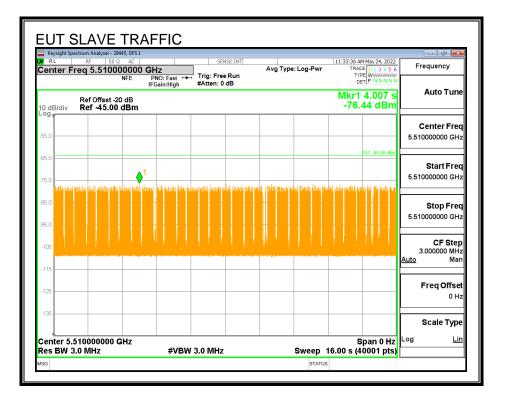
8.9.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



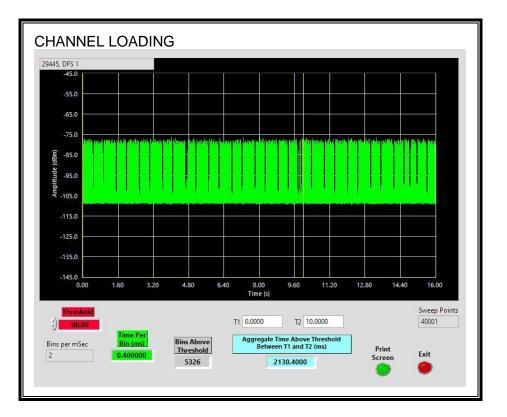
Page 73 of 110

TRAFFIC



Page 74 of 110

CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 21.3%

Page 75 of 110

8.9.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

8.9.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

| Channel Move Time | Limit |
|-------------------|-------|
| (sec) | (sec) |
| 6.100 | 10 |

| Aggregate Channel Closing Transmission Time | Limit |
|---|--------|
| (msec) | (msec) |
| 0.400 | 60 |

Page 76 of 110

MOVE TIME

| U RL | ctrum Analyzer - 29445, DFS | 1 | | | | |
|--|-------------------------------------|---|---------------------------------------|-----------------------------|--|---------------------------------|
| Center Fr | RF 50 Ω AC eq 5.51000000 NFE | 0 GHz PNO: Fast ↔ | SENSE:INT | Avg Type: Log-Pwr | 11:37:17 AM May 24, 2022 TRACE 1 2 3 4 5 6 TYPE WWWWWW | Frequency |
| | | IFGain:High | #Atten: 0 dB | | ΔMkr1 6.100 s | Auto Tune |
| 10 dB/div | Ref Offset -20 dB Ref -45.00 dBn | 1 | | | -19.50 dB | |
| -55.0 | | | | | | Center Freq |
| -65.0 | -X2 | | • 102 | | DL1 -64.00 dBm | 5.510000000 GHz |
| -85.0 | | | | | | Start Fred |
| -95.0 -105 | Aldonsarahhan | the participant of the state of t | er tit hillenter a glatteringen tilde | all the Lington derivitient | | 5.510000000 GHz |
| -115 | | | | | | |
| -125 | | | | | | Stop Freq 5.510000000 GHz |
| | 10000000 GHz | | | | Span 0 Hz | CF Step |
| Res BW 3 | | | / 3.0 MHz | Sweep | 16.00 s (40001 pts) | 3.000000 MHz <u>Auto</u> Man |
| $\frac{1}{2} \frac{\Delta 2}{F} \frac{1}{1}$ | t (Δ) | 6.100 s (Δ) 1.563 s | -19.50 dB -63.99 dBm | UNCTION FUNCTION WIDTH | | |
| 3 4 5 | • | 1.000 0 | 00.00 0.200 | | = | Freq Offset |
| | | | | | | Scale Type |
| 6 7 8 9 | | | | | | |

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Page 77 of 110

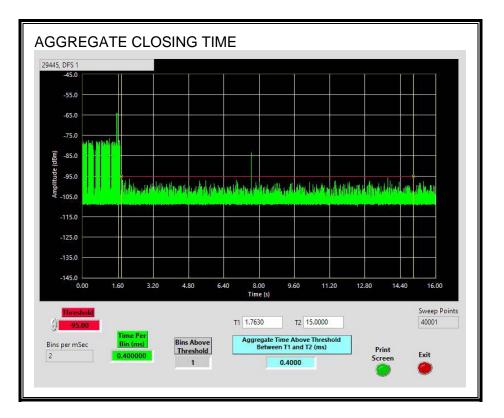
CHANNEL CLOSING TIME

| Keysight Spectrum Analyzer - 29445, DFS RL RF 50 Ω AC | | SE:INT | 11:40:25 AM May 24, 202 | 22 _ |
|--|--|--|--|---|
| enter Freq 5.5100000 NFE | 0 GHz PNO: Fast ↔ Trig: Video IFGain:High #Atten: 0 o | | g-Pwr TRACE 1 2 3 4 5 TYPE WWWWW DET P N N N N | LAF. |
| Ref Offset -20 dB 0 dB/div Ref -45.00 dBm | ii ounnign | | ΔMkr1 200.0 m -39.82 dl | |
| 55.0 | | | | Center Fred 5.510000000 GH |
| 65.0 | | | DL1 -64.00 dB | m |
| 75.0 | | | TRIG LN | L Start Free 5.510000000 GHz |
| | | | | Stop Fred 5.510000000 GH: |
| and the first of the second second | heleote and the 1 1 2 mills loted | la for different de la constance | hadeshaaddigginnay is illegiadd ac fi | |
| 105 115 115 115 115 115 115 115 115 115 | na poline nini je provinskoj kon polinje polinje do na jedno v semina provinskoj kon na se | nan manan darija pini ar pri pripa paka para baka na baka | ti yy safardi ne balay pinana day ini yayi karana yuni minana ana ku ang baran | CF Step 3.000000 MH <u>Auto</u> Mar |
| 125 | | | | Freq Offse 0 H |
| 135 | | | | Scale Type |
| Center 5.510000000 GHz | #VBW 3.0 MHz | | Span 0 H ep 600.0 ms (40001 pts | |

Page 78 of 110

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.



Page 79 of 110

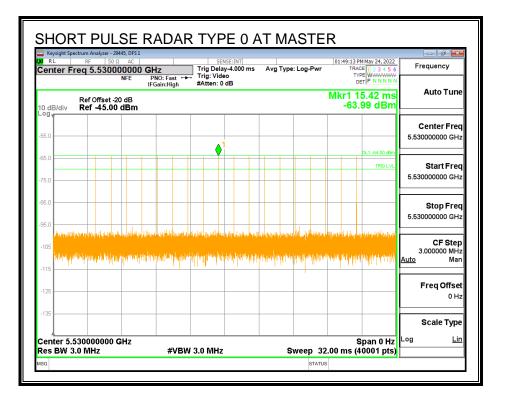
8.10. PEER TO PEER MODE EUT RESULTS FOR 80 MHz BANDWIDTH

8.10.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5530 MHz.

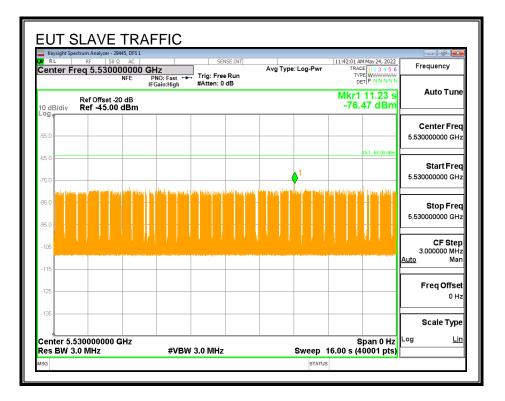
8.10.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



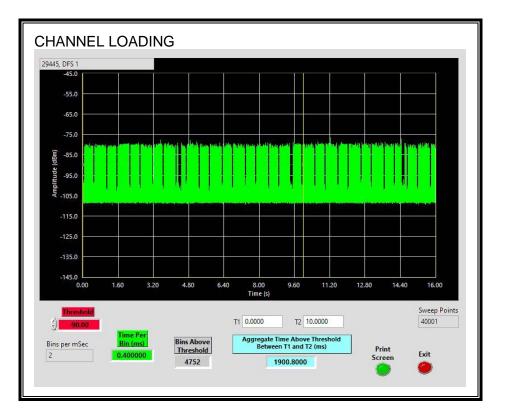
Page 80 of 110

TRAFFIC



Page 81 of 110

CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 19.0%

Page 82 of 110

8.10.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

8.10.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

| Channel Move Time | Limit |
|-------------------|-------|
| (sec) | (sec) |
| 0.1552 | 10 |

| Aggregate Channel Closing Transmission Time | Limit |
|---|--------|
| (msec) | (msec) |
| 0.0 | 60 |

Page 83 of 110

MOVE TIME

| | alyzer - 29445, DFS 1 | | | | | - 6 🐱 |
|---|-----------------------------|------------------------|-------------------------|------------------------------|--|---|
| RL RF Center Freq 5. | NFE | PNO: Fast ++ | SENSE:INT | Avg Type: Log-Pwr | 11:45:30 AM May 24, 2022 TRACE 1 2 3 4 5 6 TYPE WWWWWWW DET P N N N N N | Frequency |
| | Iffset -20 dB -45.00 dBm | FGain:High | #Atten: 0 dB | Δ | Mkr1 155.2 ms -17.81 dB | Auto Tune |
| 65.0 65.0 | Δ2 | | | | DL1 -64.00 dBm | Center Frec 5.53000000 GHz |
| 85.0 | | pilin teleptelinger | | nun Handerscher with Manager | hander fan selder tidele tide | Start Fred 5.53000000 GH |
| 115 | | | | | | Stop Frec 5.53000000 GH; |
| enter 5.53000 tes BW 3.0 MH | | #VBW | V 3.0 MHz | Sweep 1 | Span 0 Hz 16.00 s (40001 pts) Function value | CF Step 3.000000 MH <u>Auto</u> Mar |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | Δ) 1 | 55.2 ms (Δ) 1.565 s | -17.81 dB -64.16 dBm | | PONCTONVALUE | Freq Offse 0 H: |
| • | | | | | | Scale Type |
| 6 7 8 9 | | | | | | |

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Page 84 of 110

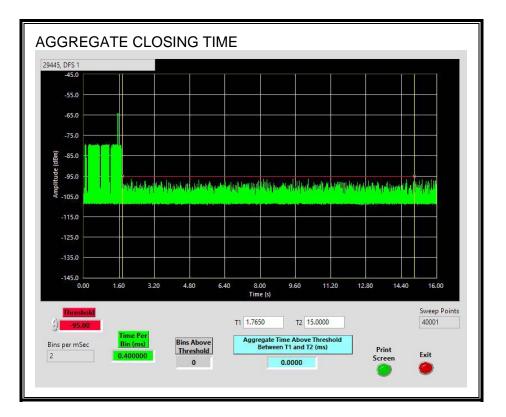
CHANNEL CLOSING TIME

| Keysight Spectrum Analyzer - 29445, DFS 1 RL RF 50 Ω AC | | ISE:INT Avg Type: | | AM May 24, 2022 | Frequency |
|---|--|---|---|--|--|
| enter Freq 5.53000000 | BHZ PNO: Fast ↔ Trig: Vide IFGain:High #Atten: 0 | o | - 1 | ACE 1 2 3 4 5 6 TYPE WWWWWWW DET P N N N N N | |
| Ref Offset -20 dB 0 dB/div Ref -45.00 dBm | | | | 200.0 ms 37.92 dB | Auto Tune |
| og | | | | | Center Free |
| 55.0 | | | | | 5.530000000 GH |
| 65.0 <mark>- X</mark> 2 | | | | DL1 -64.00 dBm | Start Fred |
| 75.0 | | | | | 5.530000000 GH; |
| | | | | | |
| | | | | | Stop Fred 5.530000000 GH; |
| s | | material distance delland | una data parte da series | ullahawaahaa 🗕 | |
| 105 101 | n, daes anderen profitie d _{er} leyster op en det denine, die staar | na na shi na na shi na shi shi shi na | <u>ya yang bersen na fini panis Provenzen</u> | | CF Step 3.000000 MH <u>uto</u> Mar |
| | | | | | Freq Offse |
| 125 | | | | | 0 H: |
| 135 | | | | | Scale Type |
| enter 5.530000000 GHz | | | | Span 0 Hz | og <u>Lir</u> |

Page 85 of 110

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



Page 86 of 110

8.10.5. 30-MINUTE NON-OCCUPANCY PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 30-minute observation time.

| U R | L | RF | nalyzer - 29 | 2 AC | | SEI | ISE:INT | | : Log-Pwr | | M May 24, 2022 DE 1 2 3 4 5 6 | Frequency |
|------------------|------------------|---------|--------------|-----------|---------------------------------------|-------------------------|-----------|----------------|-----------|--------------|----------------------------------|---|
| en | ter Fi | eq 5 | .5300 | | 1Z 'NO: Fast ↔ Gain:High | Trig: Free #Atten: 0 | | Avg Type | . Log-Fwi | TY | PE WWWWWWW ET P N N N N N | |
| Ref Offset 20 dB | | | | | | | | | | Auto Tune | | |
| og | | | | | | | | | | | | Center Free |
| 5.0 | | | | | | | | | | | DL1 -64.00 dBm | 5.530000000 GH |
| 5.0 | | | | | | | | | | | 001-164.00 (BH) | Start Free 5.530000000 GH |
| | <mark>%</mark> 2 | | | | | | | | | | | |
| 5.0 5.0 | | | | | | | | | | | | Stop Fred 5.530000000 GH: |
| 105 | 104AV | h) lini | hala | abappikip | allifteena fi | pite of the floor | nlahalala | ndalar fillini | n hiyahad | Michaelsenad | | CF Step 3.000000 MH <u>Auto</u> Mar |
| 125 | | | | | | | | | | | | Freq Offse 0 H |
| 135 | | _ | | | | | | | | | | Scale Type |
| an | ter 5 4 | 3000 | 00000 | 2H7 | | | | | | | ipan 0 Hz | Log <u>Lir</u> |

Page 87 of 110

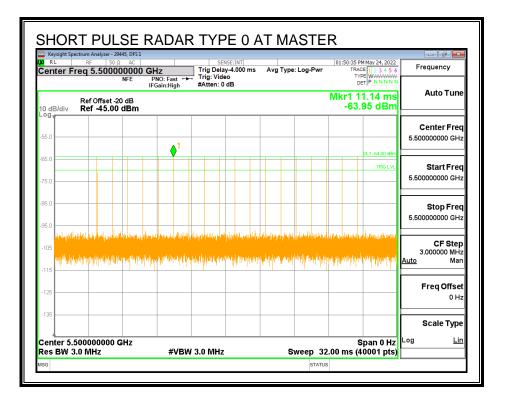
8.11. PEER TO PEER MODE PEER SLAVE DEVICE RESULTS FOR 20 MHz BANDWIDTH

8.11.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5500 MHz.

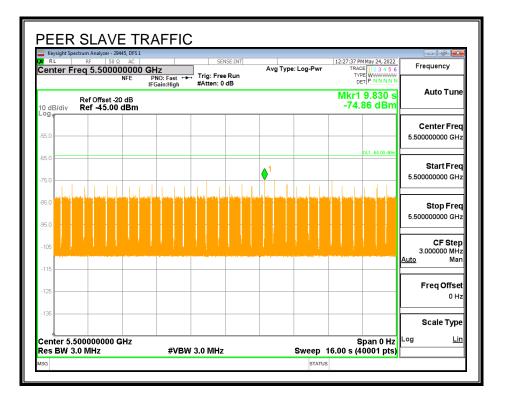
8.11.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



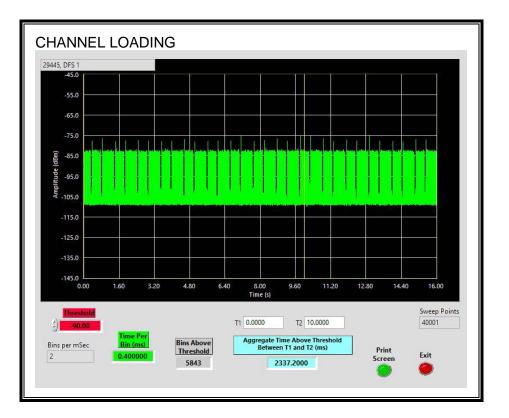
Page 88 of 110

TRAFFIC



Page 89 of 110

CHANNEL LOADING



The level of traffic loading on the channel by the Peer Slave is 23.37%

Page 90 of 110

8.11.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

8.11.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

| Channel Move Time | Limit |
|-------------------|-------|
| (sec) | (sec) |
| 0.0584 | 10 |

| Aggregate Channel Closing Transmission Time | Limit |
|---|--------|
| (msec) | (msec) |
| 0.0 | 60 |

Page 91 of 110

MOVE TIME

| | ectrum Analyzer - 2 | | | | | | | | |
|-------------|-----------------------------|----------------------------|------------------|-------------------------|-----------------------|------------------|--|--------|----------------------------|
| RL | RF 50 9 | Ω AC 00000 GHz | | SENSE:INT | Ava Type | : Log-Pwr | 12:30:47 PM May 24 TRACE 1 2 | | Frequency |
| Jeniter F | 1eq 3.3000 | NFE PNO: Fa IFGain:Hi | | : Free Run ten: 0 dB | | | TYPE WWA | VWWW | |
| 0 dB/div | Ref Offset -2 Ref -45.00 | | | | | Δ | 0kr1 58.40 18.73- | | Auto Tune |
| ogy | 1101 40.00 | | | | | | | | |
| 65.0 | N// | | | | | | DL1 -64. | 00 dBm | Center Fred |
| 65.0 | | | | | | | | | 5.500000000 GH |
| 75.0 | <u>1Δ2</u> | | | | | | | | |
| 85.0 | | | | | | | | | Start Free |
| 95.0 | 1.1 | a de atra | a de la | In the second | and the second second | | ter in the second s | | 5.50000000 GH |
| 105 | Made In the | and half the the time time | N INF WATE PARTY | | | all the "Million | in the state of the second | | |
| 115 | | | | | | | | — F | Oton Eros |
| 125 | | | | | | | | _ | Stop Free 5.50000000 GH |
| -135 | | | | | | | | | 5.50000000 GH |
| | 500000000 | | | | | | Span | | |
| tes BW | | | VBW 3.0 I | MHz | | Sweep 1 | span 6.00 s (40001 | | CF Step 3.000000 MH |
| MKR MODE T | PC SCI | X | Y | | | ICTION WIDTH | FUNCTION VALU | | <u>uto</u> Mar |
| 1 Δ2 | 1 t (Δ) | 58.40 ms | s (Δ) -1 | 8.73 dB | | | TONCTION VALUE | | |
| 2 F 3 | 1 t | 1.530 s | -64. | 29 dBm | | | | _ | Freq Offse |
| 4 | | | | | | | | = | 0 H: |
| 6 | | | | | | | | = | |
| 7 8 | | | | | | | | | Scale Type |
| 9 10 | | | | | | | | | |
| 11 | | | | | | | | Lo | og <u>Lir</u> |

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Page 92 of 110

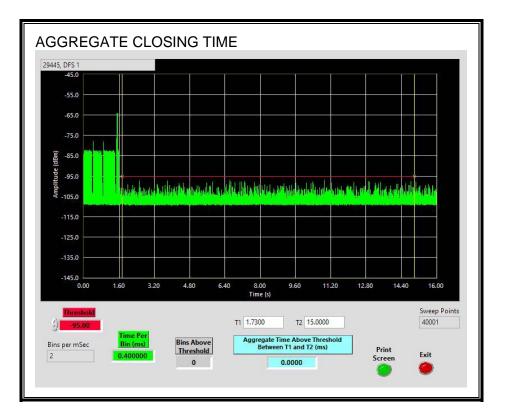
CHANNEL CLOSING TIME

| | i0 Ω AC | | SENSE:INT | | 12:33:53 PM May 24, 2022 | |
|----------------------------------|---------|-------------------|------------------|--|---|--|
| Center Freq 5.500 | NFE PN | O: Fast +++ Trig: | Video n: 0 dB | Avg Type: Log-Pwr | TRACE 1 2 3 4 5 6 TYPE WWWWW DET P N N N N N | Frequency |
| Ref Offset 0 dB/div Ref -45.0 | :-20 dB | | | Δ١ | Vkr1 200.0 ms -37.56 dB | Auto Tune |
| 55 .0 | | | | | | Center Fred 5.50000000 GHz |
| 65.0 | | | | | DL1 -64.00 dBm | |
| 75.0 | | | | | TRIG LVL | Start Fred 5.50000000 GH; |
| 85.0 | | | | | | Stop Frec 5.500000000 GHz |
| 105 | | | | ge ter system i syner op beverde ter de senten bester de senten bester de senten bester de senten de senten de general differences en senten de general de senten de senten de senten de senten de senten de senten de senten and senten de senten d | y is marked associate video and y release frances are present to observ | CF Step 3.000000 MH; <u>Auto</u> Mar |
| .125 | | | | | | Freq Offse 0 Ha |
| 135 | | | | | | Scale Type |
| Center 5.50000000 | 0 GHz | #VBW 3.0 M | | 0 | Span 0 Hz .0 ms (40001 pts) | Log <u>Lir</u> |

Page 93 of 110

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



Page 94 of 110

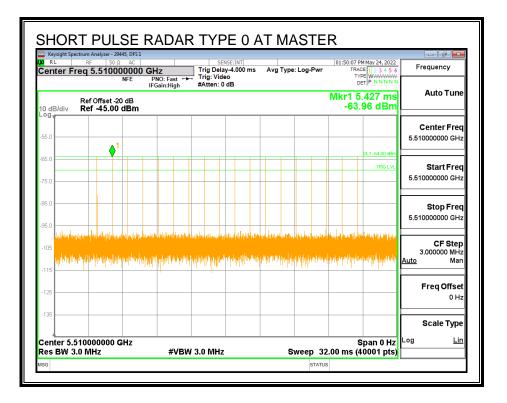
8.12. PEER TO PEER MODE PEER SLAVE DEVICE RESULTS FOR 40 MHz BANDWIDTH

8.12.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5510 MHz.

8.12.2. RADAR WAVEFORM AND TRAFFIC

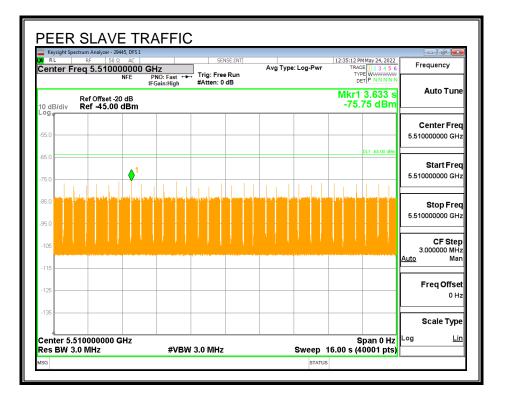
RADAR WAVEFORM



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Page 95 of 110

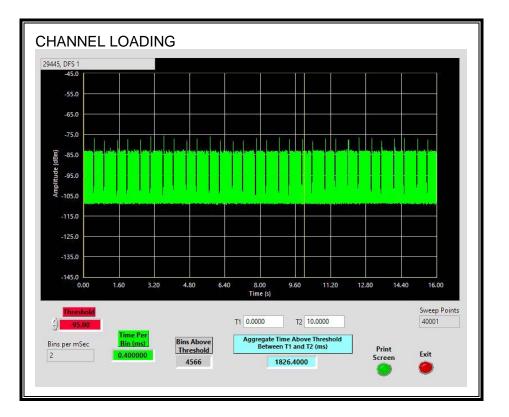
TRAFFIC



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Page 96 of 110

CHANNEL LOADING



The level of traffic loading on the channel by the Peer Slave is 18.26%

Page 97 of 110

8.12.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

8.12.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

| Channel Move Time | Limit |
|-------------------|-------|
| (sec) | (sec) |
| 4.159 | 10 |

| Aggregate Channel Closing Transmission Time | Limit |
|---|--------|
| (msec) | (msec) |
| 28.0 | 60 |

Page 98 of 110

MOVE TIME

| RL RF | alyzer - 29445, DFS 1 50 Ω AC | SENSE:INT | | 10-40-17 DM May 24, 2022 | |
|---------------------------------|--|--------------------------------------|--|---|------------------------------------|
| series rieq s. | 51000000 GHz NFE PNO: Fast | Trig: Free Run | Avg Type: Log-Pwr | 12:40:17 PM May 24, 2022 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N | Frequency |
| | IFGain:Higi Iffset -20 dB -45.00 dBm | #Atten: 0 dB | | ΔMkr1 4.159 s -23.92 dB | Auto Tune |
| -og | 45.00 dBm | | | | |
| -65.0 | | | | DL1 -64.00 dBm | Center Fred 5.510000000 GHz |
| -85.0 | render and the second | 142 Militranelisan an Adamska i M | and the state of t | l anteilideren freißen ausseite | Start Fred 5.510000000 GHz |
| -115 | | | | | Stop Frec 5.510000000 GHz |
| Center 5.51000 Res BW 3.0 MH | | BW 3.0 MHz | Sweep | Span 0 Hz 16.00 s (40001 pts) EUNCTION VALUE | CF Step 3.000000 MH Auto Mar |
| 1 Δ2 1 t (| Δ) 4.159 s 1.591 s | | | E | Freq Offset 0 Hz |
| 3 4 5 | | | | | |
| 3 4 | | | | | Scale Type |

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Page 99 of 110

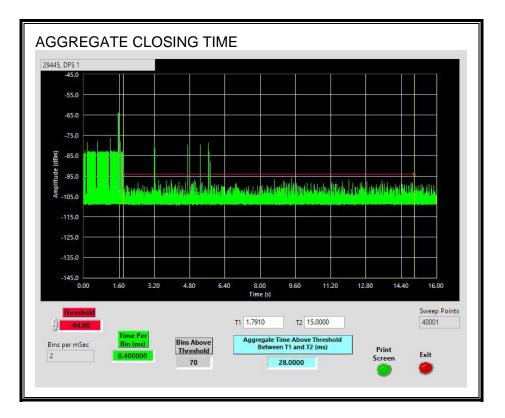
CHANNEL CLOSING TIME

| enter Freq 5.510000000 G | Hz | Avg Type: Log-Pwr | 12:49:14 PM May 24, 2022 TRACE 1 2 3 4 5 6 TYPE WWWWWW | Frequency |
|--------------------------|----------|---|--|---|
| Ref Offset -20 dB | NO: Fast | Δ | Akr1 200.0 ms -37.75 dB | Auto Tune |
| 5.0 | | | | Center Free 5.510000000 GH |
| 5.0 | | | DL1 -64.00 dBm TRIG LVL | Start Free 5.510000000 GH |
| 50 | | | | Stop Fre 5.51000000 GH |
| | | date den gelatete geneliker produktion den so na na na na sin den son ander son den son den generiker generiker na na na na sin den son den son den son den generiker generiker generiker generiker generiker generiker generik | in tell mean (name) teochor i an a bhio in Ès guarantik ca | CF Step 3.000000 MH <u>Auto</u> Mar |
| 125 | | | | Freq Offse 0 H |
| 135 | | | | Scale Type |

Page 100 of 110

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.



Page 101 of 110

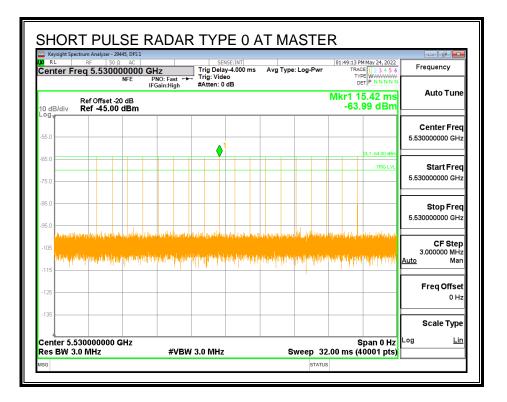
8.13. PEER TO PEER MODE PEER SLAVE DEVICE RESULTS FOR 80 MHz BANDWIDTH

8.13.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5530 MHz.

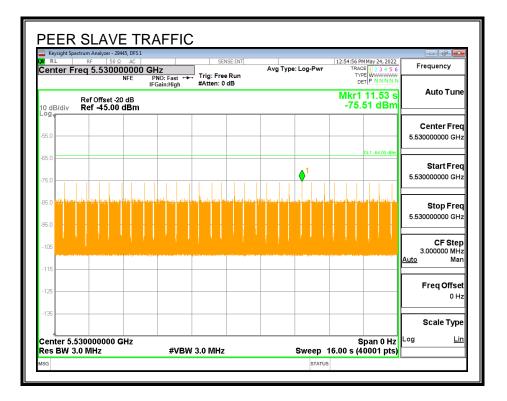
8.13.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



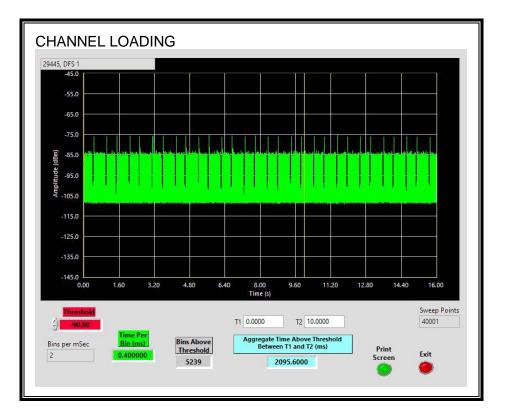
Page 102 of 110

TRAFFIC



Page 103 of 110

CHANNEL LOADING



The level of traffic loading on the channel by the Peer Slave is 20.95%

Page 104 of 110

8.13.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

8.13.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

| Channel Move Time | Limit |
|-------------------|-------|
| (sec) | (sec) |
| 4.042 | 10 |

| Aggregate Channel Closing Transmission Time | Limit |
|---|--------|
| (msec) | (msec) |
| 16.8 | 60 |

Page 105 of 110

MOVE TIME

| Frequency | 04.00 04 D144 04 0000 | | SENSE:INT | | um Analyzer - 29445, DFS 1 RF 50 Ω AC | Keysight Spectro R L |
|---|---|------------------------|------------------------|--|--|--|
| | 01:02:24 PM May 24, 2022 TRACE 1 2 3 4 5 0 TYPE WWWWWWW | Avg Type: Log-Pwr | Trig: Free Run | | q 5.53000000 | |
| | DET P NNNN | | #Atten: 0 dB | PNO: Fast ++ IFGain:High | NFE | |
| Auto Tune | ΔMkr1 4.042 s -21.87 dB | | | | Ref Offset -20 dB Ref -45.00 dBm | |
| Center Fred | | | | | | 5.0 |
| 5.53000000 GH | DL1 -64.00 dBm | | | | ¥2 | 5.0 |
| Start Fred | | | | 1∆2 | | 5.0 5.0 (Juli) volu |
| 5.530000000 GH; | htterne goaled, believe the post | abharanna dhyrgraidhau | normalite and a second | and and a second se | and welling the | 5.0 105 |
| | | | | | | |
| Stop Fred | | | | | | 115 |
| Stop Fred 5.530000000 GH: | | | | | | 115 125 135 |
| 5.53000000 GH | Span 0 Hz | | | | 00000000 GHz | enter 5.53 |
| 5.530000000 GH | 16.00 s (40001 pts) | - | 3.0 MHz | #VBW | MHz | enter 5.53 |
| 5.530000000 GH; CF Step 3.000000 MH; | 16.00 s (40001 pts) | Sweep 1 | Y FU -21.87 dB | × 4.042 s (Δ) | MHz sci × × | enter 5.53 es BW 3.0 |
| 5.530000000 GH; CF Step 3.000000 MH; | 16.00 s (40001 pts) | - | Y FU | X | MHz scl x | enter 5.53 es BW 3.0 CR MODE TR 1 Δ2 1 2 F 1 3 4 5 |
| 5.53000000 GH: CF Step 3.000000 MH: <u>Auto</u> Mar Freq Offset | 16.00 s (40001 pts) | - | Y FU -21.87 dB | × 4.042 s (Δ) | MHz sci × × | enter 5.53 es BW 3.0 R MODE TRE 1 Δ2 1 2 F 1 3 4 |

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Page 106 of 110

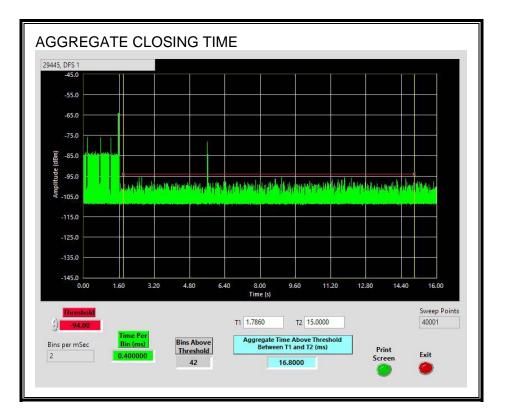
CHANNEL CLOSING TIME

| Keysight Spectrum Analyzer - 29445, DFS 1 RL RF 50 Ω AC enter Freq 5.530000000 GF | IZ NO: Fast ↔ Trig: Vide | • - | Type: Log-Pwr | 01:05:38 PM May 24, 2022 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N | |
|---|--|-----------------------|---------------|---|-------------------------------------|
| Ref Offset -20 dB dB/div Ref -45.00 dBm | Gain:High #Atten: 0 | dB | Δ | Mkr1 200.0 ms -38.09 dB | Auto Tune |
| •g | | | | | Center Free 5.530000000 GH; |
| | | | | DL1 -64.00 dBm | 5.530000000 GH2 |
| 75.0 | | | | TRIG LVL | Start Fred 5.530000000 GH: |
| 5.0 | | | | | Stop Fred 5.530000000 GH; |
| a an an filinithing na nivelit an an san sa finansais | hadaya 142 dindahar | | | | CF Step |
| | (13) setting mit dir dari (17) fillen hit, top y den sony di | a ta panda son dana c | | a rolling and the distribution of the standard and the standard | 3.000000 MH <u>Auto</u> Mar |
| 125 | | | | | Freq Offse 0 Ha |
| 135 | | | | | Scale Type |
| enter 5.530000000 GHz | | | | Span 0 Hz | Log <u>Lir</u> |

Page 107 of 110

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.



Page 108 of 110

8.13.5. 30-MINUTE NON-OCCUPANCY PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 30-minute observation time.

| RL | Spectrum Analyz RF | 50 Ω AC | | SEI | SE:INT | | | | M May 24, 2022 | Frequency |
|------------|-----------------------|-----------------------|----------------------------------|---------------------------|---------------|----------|------------|----------|--|---|
| Center | Freq 5.53 | 80000000 C | Hz PNO: Fast ↔ IFGain:High | , Trig: Free #Atten: 0 | | Avg Type | : Log-Pwr | TY | CE 1 2 3 4 5 6 PE WWWWWWW ET P N N N N N | Trequency |
| 0 dB/div | | et -20 dB 5.00 dBm | | | | | | | 1.800 ks 0.48 dB | Auto Tune |
| | | | | | | | | | | Center Free |
| 55.0 | | | | | | | | | DL1 -64.00 dBm | 5.530000000 GH |
| 75.0 | | | | | | | | | 0L1 -64.00 dBm | Start Free 5.530000000 GH |
| | 2 | | | | | | | | | |
| 95.0 • • • | | | | | | | | | | Stop Free 5.530000000 GH |
| | lladhaldha | nettol ettonoott | arlidadaa | ne ^h Mplant | dan di kadi h | | mhiliniipi | un phile | | CF Step 3.000000 MH <u>Auto</u> Mar |
| 125 | | | | | | | | | | Freq Offse 0 H |
| 135 | | | | | | | | | | Scale Type |
| lantar / | 5.5300000 | 00 GH7 | | | | | | | Span 0 Hz | Log <u>Lir</u> |

Page 109 of 110

9. SETUP PHOTOS

Please refer to 14040868-EP1V1 for setup photos

END OF REPORT

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Page 110 of 110