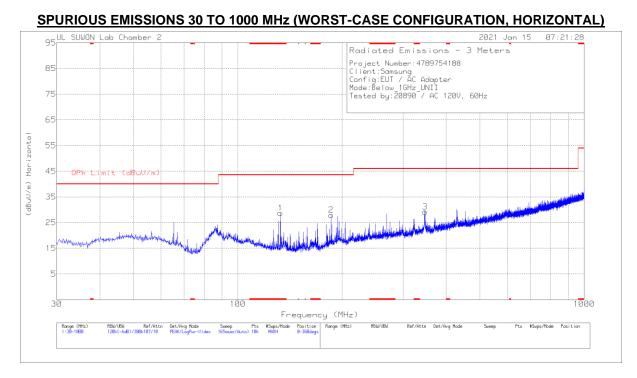
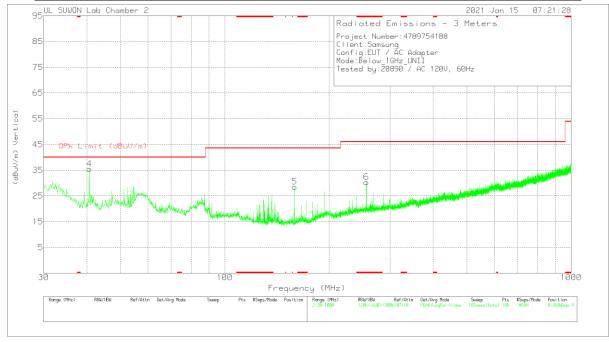
12. WORST-CASE BELOW 1 GHz



SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)



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Below 1G Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 132.82	43.89	Pk	14.1	-29.3	28.69	43.52	-14.83	0-360	100	Н
2	186.17	40.63	Pk	16	-28.7	27.93	43.52	-15.59	0-360	100	Н
3	347.287	35.6	Pk	20.9	-27.3	29.2	46.02	-16.82	0-360	100	Н
4	40.67	47.3	Pk	18.8	-30.6	35.5	40	-4.5	0-360	100	V
5	159.107	43.24	Pk	14.2	-28.9	28.54	43.52	-14.98	0-360	100	V
6	* 256.495	39.86	Pk	18.5	-28	30.36	46.02	-15.66	0-360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_75 0	Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
515	22.59	Qp	23.3	-26.2	19.69	46.02	-26.33	234	101	Н

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Qp - Quasi-Peak detector

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13. AC POWER LINE CONDUCTED EMISSIONS

<u>LIMITS</u>

FCC §15.207 (a) IC RSS-GEN Clause 8.8

Frequency of Emission (MHz)	Conducted Limit (dBuV)				
	Quasi-peak	Average			
0.15-0.5	66 to 56 *	56 to 46 *			
0.5-5	56	46			
5-30	60	50			

Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

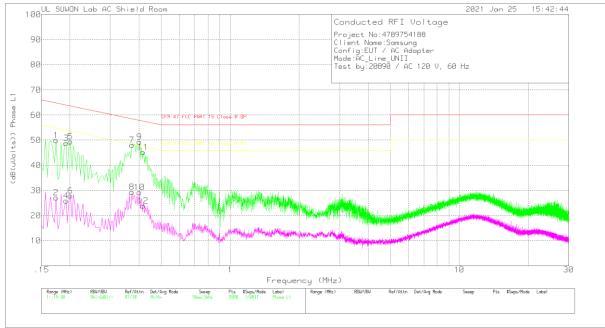
Line conducted data is recorded for both NEUTRAL and HOT lines.

<u>RESULTS</u>

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WORST EMISSIONS

LINE 1 DATA



Trace Markers

Range 1: Phase L1 .15 - 30MHz

		Meter		101836_Wit		Corrected	CFR 47		CFR 47	
Marker	Frequency (MHz)	Reading (dBuV)	Det	h EX_L1[dB]	CABLELOS S(dB)	Reading (dB(uVolts))	FCC PART 15 Class B QP	Margin (dB)	FCC PART 15 Class B AV	Margin (dB)
1	.174	39.7	Pk	10	.2	49.9	64.77	-14.87	-	-
2	.174	16.87	Av	10	.2	27.07	-	-	54.77	-27.7
3	.192	38.67	Pk	9.9	.2	48.77	63.95	-15.18	-	-
4	.192	15.82	Av	9.9	.2	25.92	-	-	53.95	-28.03
5	.201	39.38	Pk	9.9	.2	49.48	63.57	-14.09	-	-
6	.201	17.77	Av	9.9	.2	27.87	-	-	53.57	-25.7
7	.372	38	Pk	9.9	.2	48.1	58.46	-10.36	-	-
8	.372	19.32	Av	9.9	.2	29.42	-	-	48.46	-19.04
9	.402	39.2	Pk	9.9	.2	49.3	57.81	-8.51	-	-
10	.402	19.12	Av	9.9	.2	29.22	-	-	47.81	-18.59
11	.417	35.06	Pk	9.9	.2	45.16	57.51	-12.35	-	-
12	.417	13.84	Av	9.9	.2	23.94	-	-	47.51	-23.57
	ak detector									

Pk - Peak detector

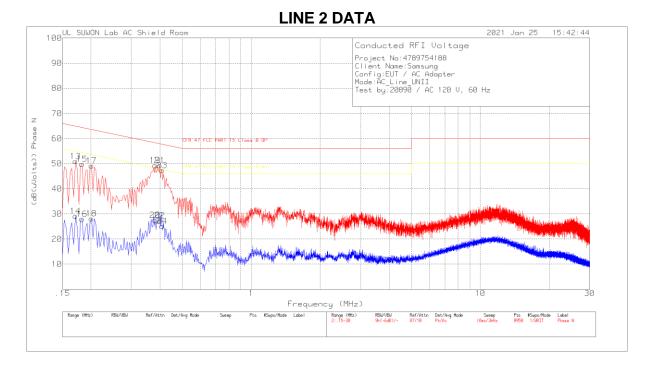
Av - Average detection

Quasi-Peak Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_L1[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.40215	34.52	Qp	9.9	.2	44.62	57.81	-13.19	-	-
Qp - Quasi-	Qp - Quasi-Peak detector								

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Trace Markers

Range 2: Phase N .15 - 30MHz

	Frequency	Meter		101836 Wit	CABLELOS	Corrected	CFR 47 FCC PART	Margin	CFR 47 FCC PART	Margin
Marker	(MHz) Reading Det EX NIdB1 S(dB) Reading	Reading (dB(uVolts))	15 Class B QP	(dB)	15 Class B AV	(dB)				
13	.171	40.62	Pk	10.1	.2	50.92	64.91	-13.99	-	-
14	.171	18.77	Av	10.1	.2	29.07	-	-	54.91	-25.84
15	.183	39.63	Pk	10	.2	49.83	64.35	-14.52	-	-
16	.183	17.74	Av	10	.2	27.94	-	-	54.35	-26.41
17	.201	39.05	Pk	9.9	.2	49.15	63.57	-14.42	-	-
18	.201	18.07	Av	9.9	.2	28.17	-	-	53.57	-25.4
19	.381	39.2	Pk	9.9	.2	49.3	58.26	-8.96	-	-
20	.381	17.42	Av	9.9	.2	27.52	-	-	48.26	-20.74
21	.399	39.17	Pk	9.9	.2	49.27	57.87	-8.6	-	-
22	.399	17.23	Av	9.9	.2	27.33	-	-	47.87	-20.54
23	.408	37.18	Pk	9.9	.2	47.28	57.69	-10.41	-	-
24	.408	15.08	Av	9.9	.2	25.18	-	-	47.69	-22.51

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_N[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.38025	34.93	Qp	9.9	.2	45.03	58.27	-13.24	-	-
.39825	35.24	Qp	9.9	.2	45.34	57.89	-12.55	-	-
	On Quasi Bask detector								

Qp - Quasi-Peak detector

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14. DYNAMIC FREQUENCY SELECTION

14.1. OVERVIEW

14.1.1. LIMITS

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".

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

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode				
	Master	Client	Client		
		(without DFS)	(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						
devices with multiple bandwidth	Radar DFS	(without DFS)						
modes								
U-NII Detection Bandwidth and	All BW modes must be tested	Not required						
Statistical Performance Check								
Channel Move Time and Channel	Test using widest BW mode	Test using the						
Closing Transmission Time	available	widest BW mode						
		available for the link						
All other tests	Any single BW mode	Not required						
Note: Frequencies selected for statis								
include several frequencies within th	e 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 bl	frequencies in all 20 MHz channel blocks and a null frequency between the bonded 20							
MHz channel blocks.								

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

Maximum Transmit Power	Value					
	(see notes)					
E.I.R.P. ≥ 200 mill watt	-64 dBm					
E.I.R.P. < 200 mill watt and	-62 dBm					
power spectral density < 10 dBm/MHz						
E.I.R.P. < 200 mill watt that do not meet power spectral	-64 dBm					
density requirement						
Note 1: This is the level at the input of the receiver assuming						
Note 2: Throughout these test procedures an additional 1 dB						
amplitude of the test transmission waveforms to account for v	ariations 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: E.I.R.P. is based on the highest antenna gain. For MIMO devices refer to KDB						
publication 662911 D01.						

Table 4: DFS Response requirement values

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.

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Table 5 – Short Pulse Radar Test Waveforms

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

Table 6 – Long Pulse Radar Test Signal

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

Table 7 – Frequency Hopping Radar Test Signal

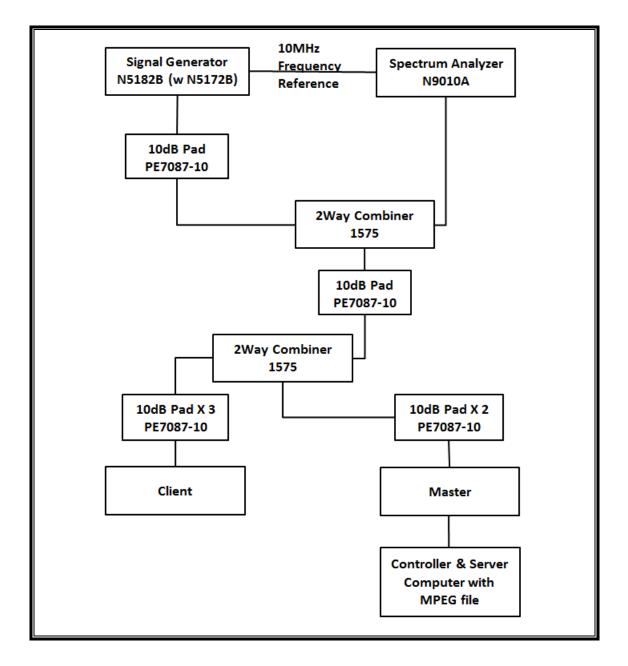
Radar Waveform Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	0.333	300	70%	30

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14.1.2. TEST AND MEASUREMENT SYSTEM

CONDUCTED METHOD SYSTEM BLOCK DIAGRAM



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SYSTEM OVERVIEW

The short pulse and long pulse signal generating system utilizes the Keysite Signal Studio for Pulse Building as N5172B. 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 1, 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time.

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.

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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

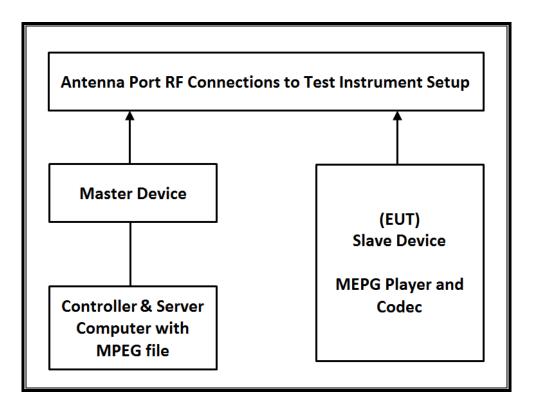
The following test and measurement equipment was utilized for the DFS tests documented in this report:

TEST EQUIPMENT LIST						
Description	Manufacturer	Model	S/N	Next Cal Due		
Spectrum Analyzer, 7 GHz	Agilent / HP	N9010A	MY54200580	08-05-21		
Vector Signal Generator, 6GHz	Agilent / HP	N5182B	MY53051241	08-03-21		
Combiner	WEINSCHEL	WA1534	UL001	02-05-21		
Combiner	WEINSCHEL	WA1535	UL002	02-05-21		

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14.1.3. SETUP OF EUT

CONDUCTED METHOD EUT TEST SETUP



SUPPORT EQUIPMENT

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

PERIPHERAL SUPPORT EQUIPMENT LIST						
Description	Manufacturer	Model	Serial Number	FCC ID		
Wireless Access Point	Cisco	AIR-CAP3702E-A-K9	FTX182276QX	LDK102087		
Notebook PC (Controller/Server)	HP	HP EliteDesk 800 G1 TWR	CZC4125J25	DoC		

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14.1.4. DESCRIPTION OF EUT

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

The EUT is a Slave Device without Radar Detection.

The highest power level of the widest bandwidth (802.11ac VHT80) within these bands is 13.33 dBm in the 5250-5350 MHz band and 13.90 dBm in the 5470-5725 MHz band.

The antenna assembly utilized two antenna. Gain of ANT1 : -1.08 dBi for UNII 2A and -1.08 dBi for UNII 2C. Gain of ANT2 : -2.25 dBi for UNII 2A and -2.25 dBi for UNII 2C.

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 conducted 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 EUT uses one transmitter/receiver chain connected to an antenna to perform radiated tests. WLAN traffic that meets or exceeds the minimum required loading was generated by transferring a data stream from the controller/server PC to the EUT using iPerf version 2.0.5 software package.

TPC is not required since the maximum EIRP is less than 500 mW (27 dBm). The EUT utilizes the 802.11 architecture. Three nominal channel bandwidths are implemented: 20 MHz, 40 MHz and 80 MHz.

The software installed in the access point is 12.4(25d)JA1.

UNIFORM CHANNEL SPREADING

This requirement is not applicable to Slave radio devices.

CHANNEL PUNCTURING(802.11ax)

This EUT does not support channel puncturing.

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

The Master Device is a Cisco Access Point, FCC ID: LDK102087. The minimum antenna gain for the Master Device is 6 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.

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14.1. RESULTS FOR 80 MHz BANDWIDTH (UNII-2A BAND)

14.1.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5290 MHz.

14.1.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



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14.1.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

14.1.4. 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)
0.722	10

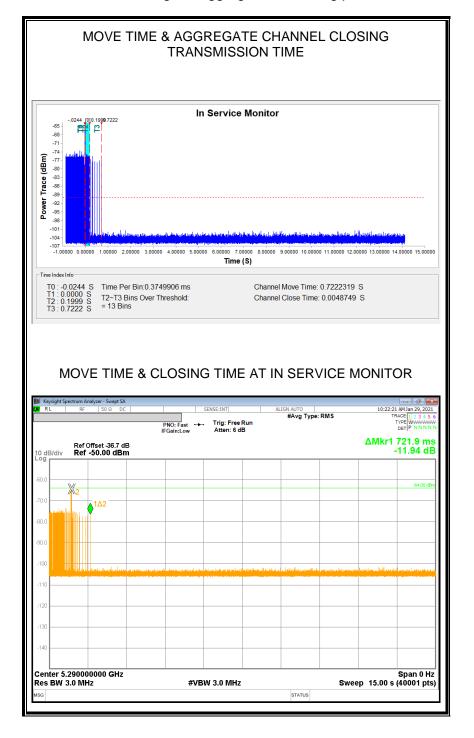
Aggregate Channel Closing Transmission Time	Limit
(msec)	(msec)
4.875	60

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MOVE TIME & CHANNEL CLOSING TIME

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



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NON-OCCUPANCY PERIOD

RESULTS

10-MINUTE BEACON MONITORING PERIOD zer - Swept SA 10:55:22 AM Jan 29, 2 #Avg Type: RMS PNO: Fast +++ Trig: Free Run Atten: 6 dB TYPE V DET P ∆Mkr1 600.0 s -38.30 dB Ref Offset -36.7 dB Ref -50.00 dBm 10 dB/div Log — ₩, 80.0 90.0 10 14 Center 5.290000000 GHz Res BW 3.0 MHz Span 0 Hz Sweep 720.0 s (40001 pts) #VBW 3.0 MHz STATUS

No EUT transmissions were observed on the test channel during the 10-minute observation time.

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14.2. RESULTS FOR 80 MHz BANDWIDTH (UNII-2C BAND)

14.2.1. TEST CHANNEL

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

14.2.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



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14.2.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

14.2.4. 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)
0.795	10

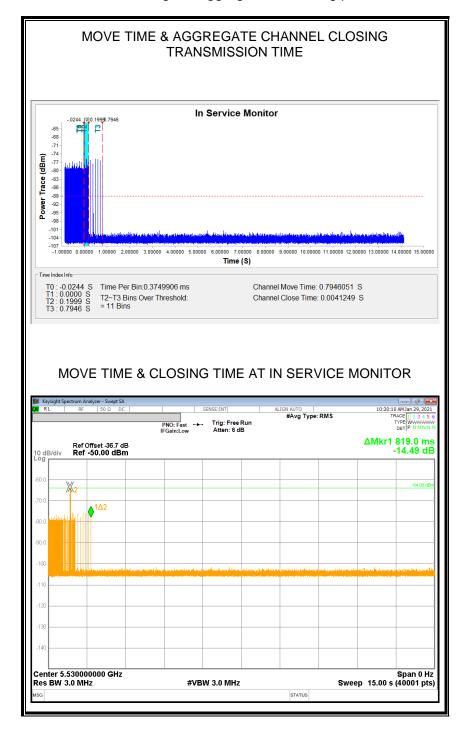
Aggregate Channel Closing Transmission Time	Limit
(msec)	(msec)
4.125	60

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MOVE TIME & CHANNEL CLOSING TIME

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



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NON-OCCUPANCY PERIOD

RESULTS

 OPEND: Fast
 SPECIMI Allow AUTO
 SENCE INT
 ALIGN AUTO
 ALIGN AUTO
 SENCE INT
 ALIGN AUTO
 <th colspan="2

No EUT transmissions were observed on the test channel during the 10-minute observation time.

END OF TEST REPORT

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