

 Title:
 Aruba AP-105 802.11a/b/g/n Wireless AP

 To:
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5.1.9.14.In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

FCC §15.407(h)(2)(iii)

The steps below define the procedure to determine the above mentioned parameters when a radar Burst with a level equal to the DFS Detection Threshold is generated on the Operating Channel of the U-NII device.

A U-NII device operating as a Client Device will associate with the EUT (Master). The requisite MPEG video file ("TestFile.mpg" available on the NTIA website at the following link http://ntiacsd.ntia.doc.gov/dfs/) is streamed from the master device (AP) to the client.

Channel Closing Transmission Time - Measurement

A Type 1 waveform was introduced to the EUT, from which a 12 second transmission record was digitally captured, collecting nearly 250M samples of data, which included in excess of 600 ms of pre-trigger data. This Type 1 waveform had an integral marker built into its construction, marking the start of the radar waveform play, which directly triggered the PXI digitizer's data capture via the PXI backplane trigger bus.

The test system was set-up to capture all transmission data for access point events above a threshold level of -50 dBm. The test equipment time stamps all captured events with respect to T_0 (zero time indicating the start of the measurements sequence) starting the 612.1 ms pre-trigger period followed by the radar type 1 burst period.

Radar (Type 1) Pre-trigger period 612.1 ms

Type 1 burst period 25.70 ms

(The period of the 18 pulse burst includes [18 pulses *1.428mS PRI] = 25.704 ms. Then add 1 µs pulse width for the final pulse.)

Channel Closing Transmission Time starts immediately after the last radar pulse is transmitted i.e. 637.8 ms after the start of the trace capture period.

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Therefore, pulses seen after this 637.8 ms boundary are identified and totaled to provide an aggregate total of transmissions in order to determine whether the EUT is compliant with the Channel Closing Transmission Time requirements as described in MO&O FCC 06-96. In this case, it was found that an aggregate total of <u>0.00 ms</u> of transmission time accrued. This value is found at the right hand side at the foot of the following plot (10s Total).

Channel 5,500 MHz Channel Closing Transmission Time (802.11a) = <u>0.081 mSecs (limit 260 mSecs)</u> Channel Move Time (802.11a) = 0.1222 Secs (limit 10 Secs)

Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 0 to 2 seconds



From the plot above it can be seen that the transmission activity within the 200 mS window is 0.081 mS (see 200 mS Total). From the following plots which shows all additional activity within the remained of the 10 sec measurement window it can be determined that the aggregate transmission is 0.0 Sec. This is less than the 60 mS limit.

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Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 2 to 4 seconds

Aeroflex DFS Radar Simulator and Analyzer	
Output Frequency: 5497 MHz RF On Stimulus Output Path Loss: 0.0 dBm Mkr 2 Route SMB Off Output Level: -5 dBm Continuous Wave Digitizer Input Path Loss: 0.0 dBm	Snap Shot
Top Of Screen: 0 dBm Sample Rate: 5.0 MHz Input Level: 0 dBm ARB Single Shot Select ARB File dB Per Division: 10 Capture Duration: 12.0 Second(s) Mode Continuous Channel List	Next Page > < Previous Page Marker Info.
-10.00	Start Waveform 0.61210 sec End Waveform 0.63780 sec 200ms Boundary
-30.00	0.83780 sec 10s Boundary 10.63780 sec Aggregates
-50.00	Burst Cnt: <mark>41</mark> 200ms Total: 0.000081 sec Burst Cnt: 42932
	9.8s Total: 0.000000 sec Total Cnt: <mark>42973</mark> 10s Total:
2.00000 2.20000 2.40000 2.60000 2.80000 3.00000 3.40000 3.60000 3.80000 4.00000 ARB File: DfsType1Pw1Pi1428Nop18NoChirp60Msps.aiq Trigger Threshold: 50 dBm 30 Min Delay Arm 50 dBm 30 Min Delay Arm 30 Min Delay Arm	0.000081 sec Iin End CAC 💌 Play
SigGen: LO: PXI2::12:INSTR Digitizer: LO: PXI2::15:INSTR Quick Boot Booted	Exit Application

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Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 4 to 6 seconds

utput Frequency: Output Level:	5497 MHz	Cont	RF On	Stim	ulus Output Path Lo gitizer Input Path Lo	ss: 0.0 dBm ss: 0.0 dBm	Mkr 2 Rout	e SMB Off	Snap Sh
eate New Wavefo	orm Capture Wavef	orm Measuremer	nt / Analysis						
Top Of Screen dB Per Division	: 0 dBm	Sample Rate	5.0 MHz	Input L	evel: 0 dBm	ARB	ngle Shot Of Repeats ntinuous	Select ARB File Channel List	Next Page >
0.00									Marker Info. Start Waveform 0.61210 sec
-20.00									0.63780 sec 200ms Boundary 0.83780 sec
-30.00									10s Boundary 10.63780 sec
-50.00									Burst Cnt: 41 200ms Total: 0.000081 sec
-60.00	di na si si sa si sa	to add a sector sould be	t fillest sole og stande beselverte stø	a haan ah han pisin farra	lean at a loss of a constraint of a loss of	an a	a beharing pangan baharan da awara	perins of the state of the stat	Burst Cnt: <mark>42932</mark> 9.8s Total: 0.000000 sec
-70.00 -80.00 4.00000	4.20000	4.40000 4.	60000 4.800	000 5.000	000 5,20000	5.40000	5,60000 5,80	0000.6 0000	Total Cnt: <mark>42973</mark> 10s Total: 0.000081 sec
ARB File:		DfsType1Pw1F	ri1428Nop18NoChi	seco rp60Msps.aiq cessfully.	nds	Trigger Thr Play	eshold: -50 dBm	30 Min Delay Arm	10 Min End CAC
ARB File:		DfsType1Pw1F The Plotting Func	ri1428Nop18NoChi tion Completed Suc	rp60Msps.aiq cessfully.		Trigger Thr Play	eshold: -50 dBm Capture Auto Play	30 Min Delay Arm	0 Min End CAC 🔽

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Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 6 to 8 seconds

Aeroflex DFS Radar Simulator and Analyzer configure Help	
Output Frequency: 5497 MHz RF On Stimulus Output Path Loss: 0.0 dBm Mkr 2 Route SMB Off Output Level: -5 dBm Continuous Wave Digitizer Input Path Loss: 0.0 dBm Create New Waveform Capture Waveform Measurement / Analysis Digitizer Input Path Loss: 0.0 dBm	Snap Shot
Top Of Screen: 0 dBm Sample Rate: 5.0 MHz Input Level: 0 dBm ARB Single Shot Select ARB File dB Per Division: 10 Capture Duration: 12.0 ± Second(s) Mode Continuous Channel List	Next Page > < Previous Page Marker Info
	Start Waveform 0.61210 sec End Waveform 0.63780 sec 200ms Boundary
-30.00	0.83780 sec 10s Boundary 10.63780 sec Aggregates Burst Cnt: 41
-50.00	200ms Total: 0.000081 sec
	Burst Cnt: <mark>42932</mark> 9.8s Total: 0.000000 sec Total Cnt: <mark>42973</mark> 10s Total:
-80.00 6.00000 6.20000 6.40000 6.60000 6.60000 7.00000 7.20000 7.40000 7.60000 7.80000 8.00000 Seconds	0.000081 sec
ARB File: DfsType1Pw1Pri1428Nop18NoChirp60Msps.aiq Trigger Threshold: -50 dBm 30 Min Delay Arm 30 Min The Plotting Function Completed Successfully. Play Capture Auto Play Capture Manual Play Capture Manual	in End CAC 💌 Play
SigGen: LD: PXI2:12:INSTR Digitizer: LD: PXI2:15:INSTR Quick Boot Booted	Exit Application

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Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 8 to 10 seconds

Aeroflex DFS Radar Simulator and Analyzer	
Output Frequency: 5497 MHz RF On Stimulus Output Path Loss: 0.0 dBm Mkr 2 Route SMB Off Output Levet -5 dBm Continuous Wave Digitizer Input Path Loss: 0.0 dBm	Snap Shot
Top Of Screen: 0 dBm Sample Rate: 5.0 MHz Input Level: 0 dBm ARB © Single Shot Select ARB File dB Per Division: 10 Capture Duration: 12.0 ÷ Second(s) Mode Continuous Channel List Channel List	Next Page > < Previous Page Marker Info.
-10.00	Start Waveform 0.61210 sec End Waveform 0.63780 sec
-20.00	200ms Boundary 0.83780 sec 10s Boundary 10.63780 sec
-50.00 -50.00	Aggregates Burst Cnt: 41 200ms Total:
	Burst Cnt: <mark>42932</mark> 9.8s Total: 0.000000 sec
-70.00 -80.00 8.00000 8.20000 8.40000 8.60000 8.80000 9.00000 9.20000 9.40000 9.60000 9.80000 10.00000 Seconds	Total Cnt: <mark>42973</mark> 10s Total: 0.000081 sec
ARB File: DfsType1Pw1Pii1428Nop18NoChirp60Msps.aiq Trigger Threshold: 50 dBm 30 Min Delay Arm 30 Nin Delay Arm <	Min End CAC 🖵 Play
SigGen: LD: PX12::12:INSTR Digitizer: LD: PX12::15:INSTR Quick Boot Booted	Exit Application

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Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 10 to 12 seconds

tput Frequency:	5497 MH	z	RF On		Stimulus	Output Path Los	s: 0.0 dBm	n M	kr 2 Route S	MB Off	Snap Sł
Output Level: J-	o dBm		ntinuous wave		Digitizi	er input Path Los	s: julu dBm	1			
ate New Wavefo	rm Capture Wav	eform Measurem	ient / Analysis								
Top Of Screen:	0 dBm	Sample Ra	ite: 5.0 MH	z	Input Leve	l: 0 dBm	ARB G	Single Shot		Select ARB File	Next Page >
dB Per Division:	10	Capture Durati	on: 12.0 📑 :	Second(s)			Mode (Continuous		Channel List	< Previous Page
0.00											Marker Info
0.00											Start Waveform
-10.00											End Waveform
											0.63780 sec
-20.00											200ms Boundary
											10s Boundary
-30.00											10.63780 sec
E40.00											Aggregates
8											Burst Cnt: 41
-50.00											200ms Total: 0.000081 sec
											Burst Cot: 42932
-60.00		1								.1	9.8s Total:
-70.00	an an an an an Anna an Anna an Anna an Anna an Anna	ani di kaca a su an ada a su	a ha a statu a Tatu a statu a s	a la constante da constante da la constante da	lan alat net distant. New Arti	t in and distantly we have	and a subsection of the subsection	nter di klas i ktalschitchute la	a naganga katang	alk edit in the state of the	0.000000 sec
											Total Cnt: 42973
-80.00 10.00000	10.20000	10.40000	10.60000	10.80000	11.00000 Seconds	11.20000	11.40000	11.60000	11.80000	12.00000	0.000081 sec
ARB File:		DfsType1Pw	1Pri1428Nop18	NoChirp60M	sps.aig		Trigge	r Threshold: -50	dBm 30	Min Delay Arm	30 Min End CAC
,		The Auto Test Fr	inction Complete	ad Successf	India			Play Canture Auto	Play C	apture Manual	Plau
		The Auto Test Ft	anction complete	eu puccessi	ully.			nay capture Auto			r idy

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Channel 5,510 MHz Channel Closing Transmission Time (802.11n HT40) = 1.077<u>mSecs (limit 260 mSecs)</u>

Channel Move Time (802.11n HT40) = 0.9122 Secs (limit 10 Secs)

Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 0 to 2 seconds



From the plot above it can be seen that the transmission activity within the 200 mS window is 0.169 mS (see 200 mS Total). From the following plots which shows all additional activity within the remained of the 10 sec measurement window it can be determined that the aggregate transmission is 0.908 mS. This is less than the 60 mS limit.

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Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 2 to 4 seconds

Configure Help										
utput Frequency:	5505 M	Hz	RF On		Stimulus Output	Path Loss: 0.0	dBm	Mkr 2 Rc	oute SMB Off	Snap Sho
Output Level:	-5 dBm		ontinuous Wave		Digitizer Input	Path Loss: 0.0	dBm			
reate New Wavef	orm Capture Wa	veform Measure	ment / Analysis							
Top Of Screer	c 0 dBm	Sample R	ate: 5.0 MH	z	Input Level: 0	dBm	ARB 🕤 Sing	le Shot	Select ARB File	Next Page >
dB Per Division	× 10	Capture Dura	tion: 12.0 📫 🤅	Second(s)			Play C No D Mode C Cont	Jf Repeats	Channel List	< Previous Page
									_	Marker Info.
0.00										Start Waveform
										0.61210 sec
-10.00										End Waveform
										200ms Boundary
-20.00										0.83780 sec
										10s Boundary
-30.00										10.63780 sec
E 40.00										
840.00										Puret Cet 100
50.00										200ms Total:
-50.00										0.000169 sec
60.00										Burst Cnt: 20907
-00.00										9.8s Total:
70.00	angedersk joreendrije	and the state of the second second	inde da la constant de la constant La constant de la cons	Josephore a subsection of the section of the sectio	a hay bert had a series of the state of the	alling and a second	ana ta Gina ang salata	ords in our sector of the sector of	a series and the first sector of the sector	0.000908 sec
-70.00										Total Cnt: 21013
80.00										10s Total:
2.00000	2.20000	2.40000	2.60000	2.80000	3.00000 Seconds	3.20000	3.40000	3.60000 3.8	4.00000 4.00000	0.001077 sec
ARB File:		DfsType1Pv	v1Pri1428Nop18I	VoChirp60Msps	.aiq		Trigger Thres	shold: -50 dBm	30 Min Delay Arm	30 Min End CAC 🔽
		The Plotting Fu	Inction Complete	d Successfully.			Play C	apture Auto P	'lay Capture Manual	Play
10.00			0 040 45 190							
gGen: LU: PX	12::12::INSTR	Digitizer:	0: PXI2::15::INS E: PXI2::14::INS	IR IB	Quick Boot	Booted				Exit Application

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Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 4 to 6 seconds

tput Frequency: 5	505 MH	łz	RF	Dn	Stimulus C)utput Path Loss:	0.0 dBm	М	kr 2 Route S	MB Off	Snap Sl
Output Level: -5	dBm	C	ontinuous Wa	ve	Digitizer	Input Path Loss:	0.0 dBm				
ate New Wavefor	m Capture Wav	eform Measure	ment / Analysi	s							
Top Of Screen:	0 dBm	Sample R	ate: 5.0 N	4H2	Input Level:	0 dBm	ARB •	Single Shot		Select ARB File	Next Page >
dB Per Division:	10	Capture Dural	ion: 12.0 📑			,	Play C Mode C	No Of Repeats		Channel List	< Previous Page
			1] = = = = = = = = = = = = = = = = = = =				Continuous			Marker Info.
0.00											Start Waveform
40.00											0.61210 sec
-10.00											0.63780 sec
-20.00											200ms Boundary
											0.83780 sec
-30.00											10s Boundary
											10.63780 se
E40.00											Aggregates
											Burst Cnt: 106
-50.00										_	200ms Total: 0.000169 sec
											Buret Cot: 20907
-60.00											9.8s Total:
70.00		na sha biya ƙasar a	(perfile) (perfector)	y setting y fillen og	na finalista ja fina india		frate Alternation (francis)	allan order _{or} dalah			0.000908 sec
-10.00											Total Cnt: 21013
-80.00											10s Total:
4.00000	4.20000	4.40000	4.60000	4.80000	5.00000 Seconds	5.20000	5.40000	5.60000	5.80000	6.00000	0.001077 sec
ARB File:		DfsType1Pv	/1Pri1428Nop	18NoChirp60M	1sps.aig		Trigger 1	hreshold: -50	dBm 30	Min Delay Arm	30 Min End CAC
								au Caphuro Asta	Play C	antura Manual	Disu
		The Plotting Fu	Inction Comple	eted Successh	ully.		PI	ay capture Auto	Flay La	sprure Manual	Play

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Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 6 to 8 seconds

Upue Frequency: Standue Output Path Loss: Output Levet: 6 Mix 2 Houre SMB OII Sna Output Levet: 5 dBm Continuous Wave Digitzer Input Path Loss: Output Levet: 6 dBm Next Page sele New Waveform Capture Waveform Measurement / Analysis Select ARB File Next Page dB Per Division: 10 Capture Duration: 12.0 Select ARB Select ARB File Next Page 0.00	- 5			_								
Output Level 15 dBm Continuous Wave Digitizer Input Path Loss: [UU] dBm sale New Waveform Measurement / Analysis Input Level 0 dBm ARB C Single Shot Select ARB File Next Page dB Per Division 10 Capture Duration: 12.0 Second(s) Play< C Input Level 0 dBm ARB C Single Shot Select ARB File Next Page 0.00	tput Frequency:	505 MH	z	RF 0	0n (Stimulus D	utput Path Loss:	0.0 dBm	Mkr	2 Route SMB 0	ff	Snap Sh
Base New Waveform Capture Waveform Measurement / Analysis Top 0F Screer, 0 dBm Sample Rate; 5:0 MHz Input Levet 0 dBm ARB Single Shot Select ARB File Next Page dB Per Division; 10 Capture Duration; 12:0 Second(s) Market Info. Start Waveform Market Info. 0.00 0 0 0 0 0 Market Info. Start Waveform Market Info. 0.00 0 0 0 0 0 0 0 Start Waveform	Output Level: -	5 dBm		iontinuous Wa	ve	Digitizer	nput Path Loss:	0.0 dBm				
Top Of Screen; O dBm Sample Rate; 5.0 MHz Input Levet; O dBm ARB Single Shot Play Select ARB File Next Page 0.00 Capture Duration; 12.0 Second(s) Mode Continuous Dearnel List C Previous File 0.00 -0.00 -0.00 -0.00 -0.00 -0.00 Market Info. -20.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 0.00 0.00 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000000 0.00000 0	eate New Wavefo	rm Capture Wav	eform Measure	ment / Analysi	s							
dB Per Division 10 Capture Duration: 12.0 Second(s) Mode Continuous Channel List	Top Of Screen:	0 dBm	Sample F	ate: 5.0 N	1Hz	Input Level:	0 dBm	ARB 🖲 Si	ingle Shot	Sele	ect ARB File	Next Page >
Marker Info. Marker Info. Marker Info. 0.00 10.00 0.000 10.00 0.000 10.00 0.000 10.00 0.000 10.00 0.000 10.00 0.000 10.000 0.000 10.000 0.000 10.000 0.000 10.000 0.000 10.000 0.000 10.000 0.000 10.000 0.000 10.000 0.000 10.0000 10.000 10.000 <t< td=""><td>dB Per Division</td><td>10</td><td>Capture Dura</td><td>tion: 12.0 🛁</td><td>Second(s)</td><td></td><td></td><td>Play C N Mode C C</td><td>o Of Repeats</td><td></td><td>nannel List</td><td>Previous Page.</td></t<>	dB Per Division	10	Capture Dura	tion: 12.0 🛁	Second(s)			Play C N Mode C C	o Of Repeats		nannel List	Previous Page.
0.00 Start Wavefe 10.00 0.01 10.00 0.01 10.00 0.01 10.00 0.01 10.00 0.01 10.00 0.01 10.00 0.01 10.00 0.01 10.00 0.01 10.00 0.01 10.00 0.01 10.00 0.01 10.00 0.01 10.00 0.01 10.00 0.01 10.00 0.001 10.00 0.01 10.00 0.01 10.00 0.001 10.00 0.001 10.000 0.001 10.000 0.0001 10.0001 0.0001 10.0001 0.0000 10.0001 0.0000 10.0000 0.0000 10.0000 0.0000 10.0000 0.0000 10.0000 0.0000 10.0000 0.0000 10.00000 0.00000 10.00000 0.00000 <		110							onunuous			Marker Info
-10.00 -10.00	0.00										_	Start Waveform
-10.00 -10.00												0.61210 sec
-20.00 -20.00 -30.00 -30.00 -50.00 -50.00 -60.000 -50.000 -60.00 -60.00 -60.00 -60.00 -60.00 -60.00 -60.00 -60.00 -60.00 -60.0	-10.00										-	End Waveform
20.00 -20.00 -30.00 -30.00 -30.00 -30.00 -30.00 -30.00 -50												0.63780 sec
-30.00 -30.00 -30.00 -30.00 -50.00 -50.00 -50.00 -60.00 -70.00	-20.00										-	200ms Boundary
-30.00 -3												0.83780 sec
Aggregates Burst Crit 200ms Total 0.0001653 Burst Crit 200ms Total 0.000107 Burst Crit 200ms Total 0.0001653 Burst Crit 200ms Total 0.0001653 Burst Crit 200ms Total 0.0001653 Burst Crit 200ms Total 0.0001653 Burst Crit 200ms Total 0.000107 Burst Crit 200ms Total 0.00107 Burst Crit 200ms Total 0.00	-30.00										-	10s Boundary
Eged 0.00												10.63780 sec
-50.00 -50.000 -50.000 -50.000 -50.000 7.00000 7.40000 7.60000 7.00000	E40.00											Aggregates
-50.00 -50.000 -50.000 -50.000 -50.000 7.00000 7.40000 7.60000 7.80000 8.0000 -70.000 7.60000 7.80000 8.0000 -70.000 7.60000 7.80000 8.00000 -70.000 7.60000 7.80000 8.00000 -70.000 7.60000 7.80000 8.00000 -70.000 7.60000 7.80000 8.00000 -70.000 7.60000 7.80000 8.00000 -70.000 7.60000 7.80000 8.00000 -70.000 7.60000 7.80000 8.00000 -70.000 7.60000 7.80000 8.00000 -70.000 7.60000 7.80000 8.00000 -70.000 7.80000 8.00000 -70.000 7.80000 8.00000 -70.000 7.80000 8.00000 -70.000 7.80000 8.00000 <t< td=""><td>σ</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Burst Cnt: 106</td></t<>	σ											Burst Cnt: 106
-60.00 -70.00 7.60000 7	-50.00											200ms Total:
-60.00 -70.00 7.60000 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.000169 sec</td></t<>												0.000169 sec
-70.00 -70.00 -80.00 6.20000 6.40000 6.60000 7.00000 7.20000 7.40000 7.60000 7.80000 8.0000 7.00000 7.60000 7.80000 8.0000 8.0000 7.00000 7.60000 7.80000 8.0000 8.0000 7.00000 7.60000 7.80000 8.0000 8.0000 7.00000 7.60000 7.80000 8.0000 8.0000 7.00000 7.60000 7.80000 8.00000 8.00000 8.00000 7.00000 7.60000 7.80000 8.00000 8.00000 8.00000 7.00000 7.60000 7.80000 8.00000 8.00000 8.00000 7.00000 7.80000 8.00000 8.00000 8.00000 8.00000 7.00000 7.80000 8.00000 9.000000 8.00000 </td <td>-60.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td>Burst Cnt: 20907</td>	-60.00										_	Burst Cnt: 20907
-70.00 -80.00 6.20000 6.40000 6.60000 6.80000 7.20000 7.40000 7.60000 7.80000 8.0000 ARB File: DfsType1Pw1Pri1428Nop18NoChirp60Msps.aiq Trigger Threshold: 50 dBm 30 Min Delay Arm 30 Min End CAC	L. L.	de la la la la		العديد أردي						and to	N	9.8s Total:
ARB File: DfsType1Pw1Pri1428Nop18NoChirp60Msps.aiq Trigger Threshold: 50 dBm 30 Min Delay Arm 30 Min End CAC The Plotting Function Completed Successfully.	-70.00	al a construction of the second	and the second	na de la tradición de	and a neighborhood of me	, distanding and so of a stady of	an a shankara shekar	a and an original handle bases	a in a second data a second	aten herte Hannelle Ante	t oles Hout	0.000908 sec
-80.00 6.20000 6.40000 6.60000 7.00000 7.40000 7.60000 7.80000 8.0000 10s Total: 0.001077 s ARB File: DfsType1Pw1Pri1428Nop18NoChirp60Msps.aiq Trigger Threshold: 50 dBm 30 Min Delay Arm 30 Min End CAC The Plotting Function Completed Successfully.												Total Cnt: 21013
6.00000 6.20000 6.40000 6.60000 7.0000 7.20000 7.40000 7.80000 7.80000 8.00000 0.001077 s ARB File: DfsType1Pw1Pri1428Nop18NoChirp60Msps.aiq Trigger Threshold: 50 dBm 30 Min Delay Arm 30 Min End CAC The Plotting Function Completed Successfully.	-80.00											10s Total:
ARB File: DfsType1Pw1Pri1428Nop18NoChirp60Msps.aiq Trigger Threshold: 50 dBm 30 Min Delay Arm 30 Min End CAC The Plotting Function Completed Successfully. Play Capture Auto Play Capture Manual Play	6.00000	6.20000	6.40000	6.60000	6.80000	7.00000 Seconds	7.20000	7.40000	7.60000	7.80000	8.00000	0.001077 sec
ARB File: DfsType1Pw1Pri1428Nop18NoChirp60Msps.aiq Ingger I hreshold: -50 dBm 30 Min Delay Arm 30 Min End LAC The Plotting Function Completed Successfully. Play Capture Auto Play Capture Manual Play	100.51											
The Plotting Function Completed Successfully. Play Capture Auto Play Capture Manual Play	AHB File:		DfsType1Pv	v1Pri1428Nop	18NoChirp60M	1sps.aiq		I rigger Th	reshold: -50 c	Bm 30 Min D	elay Arm	30 Min End CAC
			The Plotting F	unction Comple	eted Successfi	ully.		Play	y Capture Auto	Play Capture	Manual	Play

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Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 8 to 10 seconds

	505				011 1 0		0.0				
tput Frequency:	505 M	Hz	J REUN	1	Stimulus U	utput Path Loss	: U.U dBm		Mkr 2 Houte :	5MB UII	Snap Sh
Uutput Level:	5 dBm		ontinuous Wav	e	Digitizer	Input Path Loss	: [U.U dBm				
eate New Wavefo	rm Capture Wa	veform Measuren	nent / Analysis	1							
Top Of Screen	0 dBm	Sample Ra	ate: 5.0 MI	42	Input Level:	0 dBm	ARB @	Single Shot		Select ARB File	Next Page >
dB Per Division	10	Capture Durati	on: 120 🛋	Cocond(s)			Play C Mode C	No Of Repeats		Channel List	C Previous Page
	10	Capture D'urau	on. j12.0 🖵	second(s)			Mode (Continuous			Marker lafe
0.00											Start Waveform
											0.61210 sec
-10.00											End Waveform
											0.63780 sec
-20.00											200ms Boundary
											0.83780 sec
-30.00											10s Boundary
											10.63780 sec
E40.00											Aggregates
8											Burst Cnt: 106
-50.00											200ms Total:
											0.000169 sec
-60.00											Burst Cnt: 20907
call to a	ويتباسد متعادي	a ta a fa taila ann a			المعادية والمعادية	فيتبالمت بالت	atkuru	nar taan baaraa ah	Lond at the state		9.8s Total:
-70.00	dente de node e de la classifia		and an an international second	an a	land search is could be an	Manada ang sa Ito Day ang s	. In a standard and a standard a	a a calla no cler controlla	nor a lor of the same	and the second	0.000908 sec
											Total Cnt: 21013
-80.00											10s Total:
8.00000	8.20000	8.40000	8.60000	8.80000	9.00000 Seconds	9.20000	9.40000	9.60000	9.80000) 10.00000	0.001077 sec
		D/ T 4D						TI I I [70		w. n. a. L	20 M 5 1 CAC
		Distype1Pw	1Pri1428Nop11	SNoChirp6UM	sps.aiq		i rigger	i nresnola: [-50	dBm	Min Delay Arm	30 Min End LAC
		The Plotting Fu	nction Complet	ed Successfu	ally.		F	Play Capture Auto	Play C	Capture Manual	Play

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Channel Move Time, Channel Closing Transmission Time for Type 1 Radar Captured by the Test System - 10 to 12 seconds

tput Frequency: 5	505 мн	z	RF Or	n	Stimulus (Dutput Path Loss	0.0 dBm	Mkr	2 Route SMB Off	Snap S
Output Level:	5 dBm	Co	ontinuous Wav	•	Digitize	r Input Path Loss	0.0 dBm			
ate New Wavefor	m Capture Wave	form Measurem	nent / Analysis							
Top Of Screen:	0 dBm	Sample Ra	ate: 5.0 MI	łz	Input Level:	0 dBm	ARB 🖲	Single Shot	Select ARB Fi	le Next Page >
dB Per Division:	10	Capture Durati	on: 12.0 📫	Second(s)			Play C Mode C	No Of Repeats	Channel List	< Previous Page
1										Marker Info.
0.00										Start Waveform
										0.61210 sec
-10.00										0.63780 sec
-20.00										200ms Boundar
-20:00										0.83780 sec
-30.00										10s Boundary
										10.63780 se
E40.00										Aggregates
-										Burst Cnt: 106
-50.00										200ms Total:
										0.000103 580
-60.00										Burst Cnt: 20907
La Report	and be presented white our	the state of the s	artundo andro	a latit dana	alithe back to part	and the second strength of the second strengt	Anglebournet of the	and date of the light	the address of the state of the	0.000908 sec
-70.00										Total Cott 21013
										10s Total:
-80.00	10.20000	10.40000	10.60000	10.80000	11.00000 Secondo	11.20000	11.40000	11.60000	11.80000 12.00000	0.001077 sec
					Jeconus		-			
AND File:		DfsType1Pw	1Pri1428Nop1(NoChirp60N	1sps.aiq		I rigger 1	hreshold: -50 d	Bm 30 Min Delay Arm	30 Min End CAC
		The Auto Test Fu	unction Comple	ted Success	fully.		PI	lay Capture Auto	Play Capture Manual	Play

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30 Minute Non-Occupancy Period

The EUT is monitored for more than 30 minutes following the channel close/move time to verify no transmissions resume on this Channel.



30 Minute Non-Occupancy Period Type 1 Radar 5,500MHz 802.11a

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30 Minute Non-Occupancy Period Type 1 Radar 5,510 MHz802.11n HT40



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5.1.9.15. Statistical Performance Check

The steps below define the procedure to determine the minimum percentage of detection when a radar burst with a level equal to the DFS Detection Threshold is generated on the Operating Channel of the U-NII device.

A U-NII device operating as a Client Device will associate with the UUT (Master) at 5,500MHz 802.11a and 5,510MHz 802.11n HT40.

Radar Types 1 through 6 was produced at 5,497 MHz (802.11a) and 5,505 MHz (802.11n HT40) at a level of -61 dBm (Ref Section 5.1). Statistical data will be gathered to determine the ability of the device to detect the radar test waveforms. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs. The percentage of successful detection is calculated by:

Total # of detections ÷ Total # of Trials × 100 = Probability of Detection

The Minimum number of trails, minimum percentage of successful detection and the average minimum percentage of successful detection are found in the Radar Test Waveforms section.



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Verification of Detection 5,500MHz 802.11a

Trial #		Dete	ection = √, N	lo Detection	= 0	
	Type 1	Type 2	Type 3	Type 4	Type 5	Type 6
1	\sim	$\overline{\mathbf{v}}$	V	\sim	$\overline{\mathbf{v}}$	\sim
2	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
3	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
4	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
5	\checkmark	\checkmark		\checkmark	0	\checkmark
6	\checkmark	\checkmark		\checkmark	\checkmark	0
7	0	\checkmark	\checkmark	\checkmark		0
8	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
9	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
10	0	0		\checkmark	\checkmark	\checkmark
11	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
12	\checkmark	\checkmark	0	\checkmark	\checkmark	\checkmark
13	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
14	0	\checkmark	0	\checkmark	\checkmark	\checkmark
15	\checkmark	0		\checkmark	0	\checkmark
16	\checkmark	0		\checkmark	\checkmark	\checkmark
17	0	0		\checkmark	0	\checkmark
18	\checkmark	\checkmark		\checkmark	0	\checkmark
19	0					\checkmark
20	0			\checkmark	\checkmark	0
21	0			0	0	\checkmark
22	\checkmark	\checkmark		0	\checkmark	0
23	\checkmark	0		\checkmark	0	\checkmark
24	\checkmark	0	\checkmark	\checkmark	\checkmark	\checkmark
25	0	\checkmark		\checkmark	\checkmark	\checkmark
26	\checkmark	\checkmark		\checkmark	\checkmark	0
27		0		0		0
28		\checkmark	0	0		\checkmark
29		\checkmark		\checkmark		0
30	\checkmark	0		\checkmark	\checkmark	0
Detection Percentage	73.3% (>60%)	73.3% (>60%)	90% (>60%)	86.6% (>60%)	80% (>80%)	73.3% (>70%)

In addition an average minimum percentage of successful detection across all four Short pulse radar test waveforms is required and calculated as follows;

 $\frac{(P_d 1 + P_d 2 + P_d 3 + P_d 4)}{4} / 4 = \frac{(73.3\% + 73.3\% + 90\% + 86.6\%)}{4} = 80.8\% (>80\%)$

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Verification of Detection 5,510MHz 802.11n HT40

Trial #	Detection = $$, No Detection = 0							
	Type 1	Type 2	Type 3	Type 4	Type 5	Type 6		
1	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
2	\checkmark	0	\checkmark	\checkmark	\checkmark	\checkmark		
3	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
4	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
5	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
6	\checkmark	\checkmark	\checkmark	\checkmark	0	\checkmark		
7	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
8	\checkmark	\checkmark	\checkmark	\checkmark	0	\checkmark		
9	\checkmark	0	\checkmark	\checkmark	\checkmark	\checkmark		
10	\checkmark	0	0	\checkmark	\checkmark	\checkmark		
11	\checkmark	0	\checkmark	\checkmark	\checkmark	\checkmark		
12	\checkmark	0	\checkmark	\checkmark	\checkmark	\checkmark		
13	\checkmark	0	\checkmark	\checkmark	\checkmark	\checkmark		
14	\checkmark	0	0	\checkmark	\checkmark	\checkmark		
15	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
16	0	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
17	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
18	\checkmark	\checkmark	0	\checkmark	\checkmark	\checkmark		
19	\checkmark	\checkmark	\checkmark	\checkmark	0	\checkmark		
20	\checkmark	\checkmark	0	\checkmark	\checkmark	\checkmark		
21	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	0		
22	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
23	\checkmark	\checkmark	0	\checkmark	\checkmark	\checkmark		
24	\checkmark	\checkmark	\checkmark	\checkmark	0	\checkmark		
25	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
26	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	0		
27	\checkmark	\checkmark	\checkmark	0	\checkmark	\checkmark		
28	\checkmark	0	\checkmark	0	0	\checkmark		
29	\checkmark	0	0	\checkmark	\checkmark	0		
30	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	0		
Detection Percentage	96.6% (>60%)	70% (>60%)	80% (>60%)	93.3% (>60%)	83.3% (>80%)	86.6% (>70%)		

In addition an average minimum percentage of successful detection across all four Short pulse radar test waveforms is required and calculated as follows;

 $(\underline{P_{d}1 + \underline{P_{d}2 + \underline{P_{d}3 + \underline{P_{d}4}}}) / 4 = (\underline{96.6\% + 70\% + 80\% + 93.3\%}) / 4 = 84.975 \% (> 80\%)$

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Measurement Uncertainty Time/Power						
Measurement uncertainty						
	- Time	4%				
	- Power	1.33dB				

Traceability

Test Equipment Used 0072, 0083, 0098, 0116, 0132, 0158, 0313, 0314, 0193, 0223, 0252, 0253, 0251, 0256, 0328, 0329

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6. PHOTOGRAPHS

6.1. <u>Radiated Emissions > 1GHz</u>



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6.2. <u>Radiated Emissions < 1GHz</u>



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6.3. AC Wireline Conducted Emissions



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6.4. Conducted RF Measurement Test Set-Up





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6.5. Dynamic Frequency Selection Test Set-Up

General DFS Test Setup



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7. TEST EQUIPMENT DETAILS

Asset #	Instrument	Manufacturer	Part #	Serial #
0088	Spectrum Analyzer	Hewlett Packard	8564E	3410A00141
0134	Amplifier	Com Power	PA 122	181910
0158	Barometer /Thermometer	Control Co.	4196	E2846
0287	EMI Receiver	Rhode & Schwartz	ESIB 40	100201
0252	SMA Cable	Megaphase	Sucoflex 104	None
0310	2m SMA Cable	Micro-Coax	UFA210A-0-0787- 3G03G0	209089-001
0312	3m SMA Cable	Micro-Coax	UFA210A-1-1181- 3G0300	209092-001
0313	Coupler	Hewlett Packard	86205A	3140A01285
0314	30dB N-Type Attenuator	ARRA	N9444-30	1623
0070	Power Meter	Hewlett Packard	437B	3125U11552
0116	Power Sensor	Hewlett Packard	8485A	3318A19694
0117	Power Sensor	Hewlett Packard	8487D	3318A00371
0184	Pulse Limiter	Rhode & Schwartz	ESH3Z2	357.8810.52
0190	LISN	Rhode & Schwartz	ESH3Z5	836679/006
0293	BNC Cable	Megaphase	1689 1GVT4	15F50B001
0301	5.6 GHz Notch Filter	Micro-Tronics	RBC50704	001
0302	5.25 GHz Notch Filter	Micro-Tronics	BRC50703	002
0303	5.8 GHz Notch Filter	Micro-Tronics	BRC50705	003
0304	2.4GHzHz Notch Filter	Micro-Tronics		001
0307	BNC Cable	Megaphase	1689 1GVT4	15F50B002
0335	1-18GHz Horn Antenna	ETS- Lindgren	3117	00066580
0337	Amplifier	MiCOM Labs		
0338	Antenna	Sunol Sciences	JB-3	A052907

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