

Report No.: 18220WC30278904 FCC ID: 2ASCB-DF6511SP Page 1 of 20

FCC Test Report

Applicant : D2G Group LLC

Address 81 Commerce Drive, Fall River,

Massachusetts, 02720, United States

Product Name : 65inch Floor Standing Digital Signage,IR

Touch

Report Date : Mar. 27, 2024

Shenzhen Anbotek Compliance Laboratory Limited



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Report No.: 18220WC30278904 Page 2 of 20 FCC ID: 2ASCB-DF6511SP

Contents

1. General Information		pore Am		
1.1. Client Information	Ver.	Kapotek A	Upo	5
1.2. Description of Device (EUT)	Anbo	- wotek	Anbore	5
1.3 Auvilian/ Equipment Head During Test	2 Wh			Pr. C
1.4 Description of Test Facility				3K 07
1.5. Disclaimer				
1.6 Channel List				, s
1.7. Antenna Specification:	aboter An		wotek	8
1.7. Antenna Specification: 1.8. Table for Antenna Configuration:	dek	Anbo, A		9
1.9. Maximum Output Power And E.I.R.P				9
1.10. Transmit Power Control (TPC)	An-		Anbo.	10
U-NII DFS Rule Requirements	Anbo.		hopose	11
2.1. Working Modes and Required Test Items 2.2. Test Limits and Radar Signal Parameters	otek popor	V. V.	o//o	11
2.2. Test Limits and Radar Signal Parameters		otek Anbe	r	12
3. Test Equipment List				
4. Dynamic Frequency Selection (DFS)	hupor	Yu.	Mpolor	17
4.1. DFS Measurement System4.2. Calibration of DFS Detection Threshold Level	hoter	Anbe	, otek	17
4.2. Calibration of DFS Detection Threshold Leve	Iotek	Aupor	VII.	18
4.3. Deviation from Test Standard		K	Anb	18
5. Test Results	yer And		sk Aupo	19
5. I. Sulfillary of Test Results				19
5.2. DFS Detection Threshold	a\.	WO		19
5.3. Channel Move Time And Channel Closing Tra	ansmission Tir	ne	Anbo.	19
APPENDIX I TEST SETUP PHOTOGRAPH				_
APPENDIX II EXTERNAL PHOTOGRAPH	Kupo _{le} ,	An-	nodek	20
ADDENDIY III INTERNAL DHOTOGRADH				× 20





FCC ID: 2ASCB-DF6511SP Report No.: 18220WC30278904 Page 3 of 20

TEST REPORT

D2G Group LLC Applicant

Shenzhen I-Pivot Intelligent Technology Co., Ltd Manufacturer

Product Name 65inch Floor Standing Digital Signage, IR Touch

DF065TLB Test Model No.

Reference Model No. DF065NLB2

Trade Mark Displays2go

Rated Voltage: AC 100-240\

Rated Current: 3.5A Rating(s)

Rated Frequency: 50/60Hz

Max Power Consumption: 310W

Test Standard(s) FCC Part15 Subpart E, Paragraph 15.407

Test Method(s) FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart E requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt Dec. 29, 2023

Dec. 29, 2023 ~ Mar. 25, 2024 Date of Test

Nian Xiu Chen Prepared By

(Nianxiu Chen)

Bolward pan Approved & Authorized Signer

(Edward Pan)

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Report No.: 18220WC30278904 FCC ID: 2ASCB-DF6511SP Page 4 of 20

Revision History

Report Version	Description	Issued Date		
R00	Original Issue.	Mar. 27, 2024		
ek Anbotek Anbotek	Albotek Anbotek Anbons	Anbotek Anboten Anbo		
botek Anbotek Anbo	Aupotek Vupotek Vupotek	Anbotek Anbo hotek		





Report No.: 18220WC30278904 FCC ID: 2ASCB-DF6511SP Page 5 of 20

1. General Information

1.1. Client Information

Applicant	: D2G Group LLC
Address	: 81 Commerce Drive, Fall River, Massachusetts, 02720, United States
Manufacturer	: Shenzhen I-Pivot Intelligent Technology Co., Ltd
Address	2nd Floor, Building 2A, Dacheng Industrial Zone, No. 357 Jihua Rd, Longgang District, Shenzhen, Guangdong, China
Factory	: Shenzhen I-Pivot Intelligent Technology Co., Ltd
Address	2nd Floor, Building 2A, Dacheng Industrial Zone, No. 357 Jihua Rd, Longgang District, Shenzhen, Guangdong, China

1.2. Description of Device (EUT)

Product Name	:	65inch Floor Standing Digital Signage,IR Touch
Test Model No.	:	DF065TLB
Reference Model No.	:	DF065NLB2 (Note: All samples are the same except the model number and appearance height and Whether there is touch function(see page 6), so we prepare "DF065TLB" for test only.)
Trade Mark	:	Displays2go
Test Power Supply	:	AC 120V, 60Hz
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anborek Anborek Anborek Anborek Anborek
RF Specification		
Operation Mode	:	⋈ a ⋈ n(HT20) ⋈ n(HT40) ⋈ ac(VHT20) ⋈ ac(VHT40) ⋈ ac(VHT80) ⋈ ac(VHT160) ⋈ ax(HEW20) ⋈ ax(HEW40) ⋈ ax(HEW80) ⋈ ax(HEW160)
Device Type	:	☐ Outdoor AP ☐ Indoor AP ☐ Point-to-point AP ☐ Client
TPC Function	:	☐ With TPC ⊠ Without TPC
DFS Type	:	Slave without radar detection☐ Slave with radar detection☐ Master
Operation Frequency	:	⊠ Wi-Fi 5.3G: 5250~5350MHz ⊠ Wi-Fi 5.6G: 5470~5725MHz

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Report No.: 18220WC30278904 FCC ID: 2ASCB-DF6511SP Page 6 of 20

Pris.	The area was a second of the s			
	Wi-Fi 5.3G: ⊠4 Channels for 20MHz bandwidth (5260-5320MHz)			
	⊠ 2 Channels for 40MHz bandwidth (5270-5310MHz)			
Number of Channel	☐ 1 Channels for 80MHz bandwidth (5290MHz)			
Number of Channel	Wi-Fi 5.6G:			
	⊠ 11 Channels for 20MHz bandwidth (5500-5700MHz)			
	⊠ 5 Channels for 40MHz bandwidth (5510-5670MHz)			
	☐ 2 Channels for 80MHz bandwidth (5530~5610MHz)			
	⊠ 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)			
Modulation Type	⊠ 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)			
Modulation Type	│			
	⊠ 802.11ax: OFDMA(BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)			
Antenna Type	: Rod Antenna			
Antenna Gain(Peak)	: Wi-Fi 5.3G: 5.17dBi Wi-Fi 5.6G: 5.21dBi			

Remark: 1) All of the RF specification are provided by customer. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Model differences:

Model No.	Height/[mm]	Touch function	
DF065TLB	And 2000 bores Amb	Infrared touch	
DF065NLB2	1690	tek nbo N/A Anbore	

1.3. Auxiliary Equipment Used During Test

	Description	Rating(s)
0	Master device	Manufacturer: Micronet Union Technology(Chengdu) Co., Ltd
		Equipment: AC1200 Gigabit Dual Band Wi-Fi Router
i.		Model: T18-21A
	Ant Anbotek	FCC ID: 2A22E-WWYLT18







Report No.: 18220WC30278904 FCC ID: 2ASCB-DF6511SP Page 7 of 20

1.4. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

1.5. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.







Report No.: 18220WC30278904 FCC ID: 2ASCB-DF6511SP Page 8 of 20

1.6. Channel List

Operation Band: Wi-Fi 5.3G

Ano	Bandwidth:	20MHz	Bandwidth:	40MHz	Antorek	Anbo
bu.	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Model	Je And hor
3 ¹	52	5260	54	5270	ek / Yupo,	Lek / Am
otek	56	5280	orek 62 bores	5310	botek / An	bo let
abote	60 Anboret	5300	Anbotek / Anbote	k Ann botek	Anbotek	Aupolek
anb	ote ^k 64 Antoote	5320	Anbotek Anbot	otek Anbotek	Auphie.	And

Operation Band: Wi-Fi 5.6G

Bandwidth:	20MHz	Bandwidth:	40MHz	otek / Ant	otek / And
Channel	Frequency (MHz)	Channel	Frequency (MHz)	unbotek	inbole /
notek 100 Anborel	5500	102	5510	Aupolek	Anbor
104 Anb	5520	110	5550	Alpoiek	Anbo Lotel
108	5540	118	5590	k / Anbore	/Anti-br
112	5560	126	5630	otek / Anb	ore Ans
116	5580	134	5670	inbotek b	upo. P
120 Anbotel	5600	Anbotek / Anbote	tek Ambotek	Anboyer	And
124	5620	Anbotek Anbi	otek Anbotek	APPOR	And
128	5640	Anboten A	hotek / Anbotel	Anbor	rek Ambo
132	5660	tek Npote	Ame abotely Amb	stek / Anbi	-otek / Ar
136	5680	Ipotek / Anboy	And Yek A	upoten A	bolde
140 Anbore	5700	Anbotek Anbo	lek Anbotek	Aupor	Andotek

1.7. Antenna Specification:

O.	Ant.	Antenna Type	Connector	Gain (dBi)
	otek onbotek Anb	ok Dolantek An	DOLD WIN VIEW	Wi-Fi 5.3G: 5.17dBi
Š	by whotek	mboret Rod	Anborek N/Aore A	Wi-Fi 5.6G: 5.21dBi

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1.8. Table for Antenna Configuration:

Operating Mode		ATV
	TX Mode	1TX
802.11a	Aug	abotek Anbot V satek Anbote
802.11n(HT20)	ek Aupor	Mark Mark Mark
802.11ac(VHT20)	otek anboti	Anbo Anbo Anbo
802.11ax(HEW20)	00 N	otek Anbote An V tek Anbotek Ar
802.11n(HT40)	Vupoje, Vu	sek obotek AV
802.11ac(VHT40)	aborek	noo k notek Vanbore Ann sek
802.11ax(HEW40)	p. otek	Anbores And Lok V borek Anbor

1.9. Maximum Output Power And E.I.R.P.

		-10 VIII			
Test Mode	Frequency Band (MHz)	Max Average Output Power (dBm)	Gain (dBi)	Max. e.i.r.p. (dBm)	Max. e.i.r.p.
000 44-	5250~5350	15.13	5.17	20.30	107.15
802.11a	5470~5725	14.53	5.21	19.74	94.19
000 44~(UT00)	5250~5350	14.01	5.17	19.18	82.79
802.11n(HT20)	5470~5725	14.41	5.21	19.62	91.62
000 44~(LIT40)	5250~5350	14.71	5.17	19.88	97.27
802.11n(HT40)	5470~5725	15.16	5.21	20.37	108.89
000 44 () (ITOO)	5250~5350	14.30	5.17	19.47	88.51
802.11ac(VHT20)	5470~5725	14.64	5.21	19.85	96.61
000 44 () (IT 40)	5250~5350	14.71	5.17	19.88	97.27
802.11ac(VHT40)	5470~5725	15.13	5.21	20.34	108.14
000 44(115)4(00)	5250~5350	15.15	5.17	20.32	107.65
802.11ax(HEW20)	5470~5725	15.12	5.21	20.33	107.89
000 44 av/UEW40	5250~5350	15.56	5.17	20.73	118.30
802.11ax(HEW40)	5470~5725	15.09	5.21	20.30	107.15





Report No.: 18220WC30278904 FCC ID: 2ASCB-DF6511SP Page 10 of 20

1.10. Transmit Power Control (TPC)

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

3	Applicable	EIRP	FCC 15.407 (h)(1)
2	otek hotek	>500mW	The TPC mechanism is required for system with an EIRP of above 500mW
	Anborek Anborel	<500mW	The TPC mechanism is not required for system with an EIRP of less 500mW

The UUT can adjust a transmitter's output power based on the signal level present at the receiver.TPC is auto controlled by software.





Report No.: 18220WC30278904 FCC ID: 2ASCB-DF6511SP Page 11 of 20

2. U-NII DFS Rule Requirements

2.1. Working Modes and Required Test Items

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables 6 and 7 for the applicability of DFS requirements for each of the operational modes.

Applicability of DFS Requirements Prior to Use a Channel

		Operational Mod	de
Requirement	N4 4	Client without radar	Client with radar
	Master	detection	detection
Non-Occupancy Period	okek V Ambo.	Not required	And Viek
DFS Detection Threshold	notek V Ant	Not required	over My
Channel Availability Check Time	V	Not required	Not required
U-NII Detection Bandwidth	And Vak	Not required	arek V nobotek

Applicability of DFS Requirements during Normal Operation

- AV	124.		-1/4			
	Operational Mode					
Requirement	Master	Client without radar	Client with radar detection			
	Master	detection				
DFS Detection Threshold	upoten A	Not required	Inpose A stek			
Channel Closing Transmission Time	Aupolek	Anbotek Anbotek	Anbotek V Anbotek			
Channel Move Time	PVk	abotek / Anbote	Anbotek Anbotek			
U-NII Detection Bandwidth	ek VAnbor	Not required	And Vek abo			

Additional requirements for devices	Master Device or Client	Client Without Radar	
with multiple bandwidth modes	with Radar Detection	Detection	
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 each of the bonded 20 MHz channels and the channel center frequency.

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Report No.: 18220WC30278904 FCC ID: 2ASCB-DF6511SP Page 12 of 20

2.2. Test Limits and Radar Signal Parameters

Detection Threshold Values:

DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

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

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: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

Test Limit:

DFS Response Requirement Values

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

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

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

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

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Report No.: 18220WC30278904 FCC ID: 2ASCB-DF6511SP Page 13 of 20

Parameters of DFS Test Signals And Minimum Percentage of Successful Detections:

Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Short Pulse Radar Test Waveforms

Radar	Pulse Width	PRI	Number of Pulses	Minimum	Minimum
		5557	Number of Pulses		
Type	(µsec)	(µsec)		Percentage of	Number of
				Successful	Trials
				Detection	
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique	[(1)]	60%	30
		PRI values	$\left(\frac{360}{360}\right)$.		
		randomly selected	Roundup (360)		
		from the list of 23	(19·10 ⁶)		
		PRI values in Table	DDI		
		5a	$\left(\left(\begin{array}{c} PRI_{\mu sec} \end{array}\right)\right)$		
		Test B: 15 unique	38		
		PRI values			
		randomly selected			
		within the range of			
		518-3066 µsec,			
		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 Types 1-	4)		80%	120

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

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 µsec is selected, the number of

pulses would be Roundup
$$\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{3066} \right) \right\} = \text{Round up } \{17.2\} = 18$$







Report No.: 18220WC30278904 FCC ID: 2ASCB-DF6511SP Page 14 of 20

Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	quency (Pulses Per Second)		
1	1930.5	518	
2	1858.7	538	
3	1792.1	558	
4	1730.1	578	
5	1672.2	598	
6	1618.1	618	
7	1567.4	638	
8	1519.8	658	
9	1474.9	678	
10	1432.7	698	
11	1392.8	718	
12	1355	738	
13	1319.3	758	
14	1285.3	778	
15	1253.1	798	
16	1222.5	818	
17	1193.3	838	
18	1165.6	858	
19	1139	878	
20	1113.6	898	
21	1089.3	918	
22	1066.1	938	
23	326.2	3066	

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types

Long Pulse Radar Test Waveform

0,0	Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
4	5 Anbotek	5-100	5-20	1000-2000	1-3	8-20	80%	30

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Report No.: 18220WC30278904 FCC ID: 2ASCB-DF6511SP Page 15 of 20

Frequency Hopping Radar Test Waveform

4	Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
n	otek 6 Anl	Jotek 1 Anb	333	nborek 9 M	0.333	300	70%	30

For the Frequency Hopping Radar Type, the same Burst parameters are µsed for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm: If a segment does not contain at least 1 frequency within the U-NII Detection Bandwidth of the UUT, then that segment is not µsed.

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.





Report No.: 18220WC30278904 FCC ID: 2ASCB-DF6511SP Page 16 of 20

3. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1. _A n	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 12, 2023	1 Year
2.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 12, 2023	1 Year
3	RF Control Unit	Tonscend	JS0806-2	21G8060455	Oct. 12, 2023	1 Year
4.04	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 12, 2023	1 Year





Report No.: 18220WC30278904 FCC ID: 2ASCB-DF6511SP Page 17 of 20

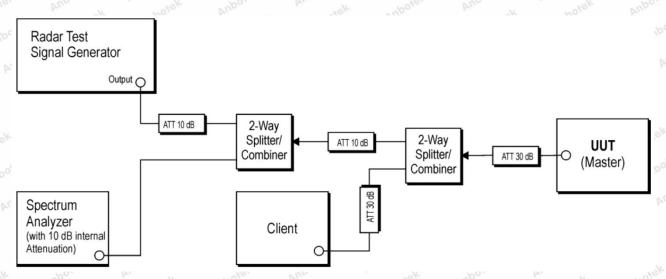
4. Dynamic Frequency Selection (DFS)

4.1. DFS Measurement System

Test Procedure:

- 1. Master device and client device are set up by conduction method as the following configuration.
- The client device is connected to notebook and to access a IP address on wireless connection with the master device.
- 3. Then the master device is connected to another notebook to access a IP address.
- 4. Finally, let the two IP addresses run traffic with each other through the Run flow software "iPerf.exe' to reach 17% channel loading as below.
- 5. The time for the device to fully start up is 65s.

Setup for Master with injection at the Master



Radar Test Waveforms are injected into the Master.





Report No.: 18220WC30278904 FCC ID: 2ASCB-DF6511SP Page 18 of 20

4.2. Calibration of DFS Detection Threshold Level

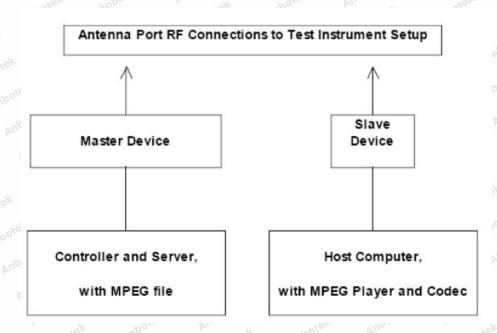
A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected in place of the master device and the signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of -64dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyzer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. Measure the amplitude and calculate the difference from -64 dBm. Adjust the Reference Level Offset of the spectrum analyzer to this difference.

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.

Set the signal generator to produce a radar waveform, trigger a burst manually and measure the level on the spectrum analyzer. Readjust the amplitude of the signal generator as required so that the peak

level of the waveform is at a displayed level equal to the required or desired interference detection threshold. Separate signal generator amplitude settings are determined as required for each radar type.



4.3. Deviation from Test Standard

No deviation.







Report No.: 18220WC30278904 FCC ID: 2ASCB-DF6511SP Page 19 of 20

5. Test Results

5.1. Summary of Test Results

Standard	Test Type	Remarks	Result
FCC 15.407	Channel Move Time	Applicable	PASS
FCC 15.407	Channel Closing Transmission Time	Applicable	PASS
FCC 15.407	Channel Loading	Applicable	PASS

5.2 DEC Detection Threehold	
5.2. DFS Detection Threshold	
Calibration: WiFi 5.3G	
DFS Threshold	Level
DFS Threshold Level (5.17dBi antenna): -55.83dBm	☐ At the antenna connector
	☐ In front of the antenna
Note: For SISO mode, the maximum EIRP < 200 milliwar clause 2.2 of this report. The detection threshold level is WiFi 5.6G	
DFS Threshold	Level
DFS Threshold Level (5.21dBi antenna): -55.79dBm	☑At the antenna connector
	☐ In front of the antenna

Note: For SISO mode, the maximum EIRP < 200 milliwatt, the antenna gain is 5.21dBi. According to clause 2.2 of this report. The detection threshold level is -55.79dBm.

Please refer to Appendix A of the Appendix Test Data.

5.3. Channel Move Time And Channel Closing Transmission Time

Please refer to Appendix B of the Appendix Test Data.

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Report No.: 18220WC30278904 FCC ID: 2ASCB-DF6511SP Page 20 of 20

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_DFS

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

End of Report

Code:AB-RF-05-b

