

EMC Test Data

	An DOES company		
Client:	Avaya	Job Number:	J81820
Model:	AP 8120 with 2 external Antenna (Class II Permissive change)	T-Log Number:	T82013
	AF 0120 WILL 2 external Antenna (Class II Fermissive Change)	Account Manager:	Christine
Contact:	Vipin Naik		
Standard:	FCC 15.247	Class:	N/A

Maximum Permissible Exposure

Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 8/2/2011 Test Engineer: Mark Hill

General Test Configuration

Calculation uses the free space transmission formula:

 $S = (PG)/(4 \pi d^2)$

Where: S is power density (W/m²), P is output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmitting antenna (m).

Summary of Results

Device complies with Power Density requirements at 20cm separation:	NO
Power Density (mW/cm²) @ 20cm:	1.234
If not, required separation distance (in cm):	22.2

Modifications Made During Testing

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.



EMC Test Data

	An ZAZZZ company		
Client:	Avaya	Job Number:	J81820
Model:	AP 8120 with 2 external Antenna (Class II Permissive change)	T-Log Number:	T82013
	AF 0120 With 2 external Africanta (Class II Fermissive Change)	Account Manager:	Christine
Contact:	Vipin Naik		
Standard:	FCC 15.247	Class:	N/A

Run #1: Two channel operation, one 2.4GHz and 5GHz channel, worse case

Use: General Use

2.4GHz - 7.13dBi, 5GHz - 8.7dBi

Antenna: Effective Gain for CDD Mimo: 2.4GHz - 10.0dBi, 5GHz - 11.7dBi

The system allows for one radio to operate in the 2.4GHz band and one radio to operate in the 5GHz bands simultaneously. It prevents both radios operating in the same band at the same time. Below calculations include worse case from original filing and this C2PC.

Maximum eirp is calculated as follows:

Uses the average power for each channel (where given), otherwise uses the peak power

Used for Multiple Transmitters

One 2.4GHz and one 5.15-5.25GHz operation

		Outp	ut Power	Antenna	E	IRP	Channels	Channels Used	Total	EIRP
Band	Mode	Peak	Average	gain (Max)	dBm	W	Available		W	dBm
2400 - 2483.5	OFDM	25.6	-	10.0	35.6	3.631	11	1	3.631	35.60
2401 - 2483.5	CCK	ı	18.8	7.1	25.9	0.392	11	•	3.001	55.00
5150-5250	OFDM	ı	13.4	8.7	22.1	0.162	4	1	0.162	22.10
5250-5350	OFDM	1	18.2	11.7	29.9	0.977	4	0	-	-
5470-5725	OFDM	1	18.0	11.8	29.8	0.955	4	0	ı	ı
5725 - 5850	OFDM	22.3	-	11.8	34.1	2.570	5	0	-	-
	•	•	•	•			Totals:	2	3.793	35.79

One 2.4GHz and one 5.25-5.35GHz operation

One 2.4GHz and one 5.25-5.35GHz operation										
Band	Mode	Output Power		Antenna		IRP	Channels	Channels	Total EIRP	
Danu	Mode	Peak	Average	gain (Max)	dBm	W	Available	Used	W	dBm
2400 - 2483.5	OFDM	25.6	ı	10.0	35.6	3.631	11	1	3.631	35.60
2401 - 2483.5	CCK	1	18.8	7.1	25.9	0.392	11	 	ა.სა I	55.00
5150-5250	OFDM	ı	13.4	8.7	22.1	0.162	4	0	-	-
5250-5350	OFDM	ı	18.2	11.7	29.9	0.977	4	1	0.977	29.90
5470-5725	OFDM	1	18.0	11.8	29.8	0.955	4	0	ı	-
5725 - 5850	OFDM	22.3	-	11.8	34.1	2.570	5	0	-	-
Totals								2	4.608	36.64

EII	iott An ATAT company
Client: Avaya	

EMC Test Data

All 2022 Company									
Client:	Avaya	Job Number:	J81820						
Model:	AP 8120 with 2 external Antenna (Class II Permissive change)	T-Log Number:	T82013						
	AP 0120 With 2 external Antenna (Class II Pennissive Change)	Account Manager:	Christine						
Contact:	Vipin Naik								
Standard:	FCC 15.247	Class:	N/A						

One 2.4GHz and one 5.4-5.7GHz operation

0110 2. 10112	_ ana one	0. 1 0.1 0	riz oporatio							
Band	Mode	Output Power		Antenna EIRP		IRP	RP Channels		Total EIRP	
Danu	Mode	Peak	Average	gain (Max)	dBm	W	Available	Used	W	dBm
2400 - 2483.5	OFDM	25.6	ı	10.0	35.6	3.631	11	1	3.631	35.60
2401 - 2483.5	CCK	ı	18.8	7.1	25.9	0.392	11	 	3.031	35.00
5150-5250	OFDM	ı	13.4	8.7	22.1	0.162	4	1	0.162	22.10
5250-5350	OFDM	ı	18.2	11.7	29.9	0.977	4	0	-	ı
5470-5725	OFDM	ı	18.0	11.8	29.8	0.955	4	1	0.955	29.80
5725 - 5850	OFDM	22.3	1	11.8	34.1	2.570	5	0	-	-
				-			Totals:	3	4.748	36.77

One 2.4GHz and one 5.7-5.8GHz operation

OTTO E. TOTTE	one 2. To he and one of the operation									
Band	Mode	Output Power		Antenna EII		RP Channels		Channels	Total EIRP	
Dallu	wiode	Peak	Average	gain (Max)	dBm	W	Available	Used	W	dBm
2400 - 2483.5	OFDM	25.6	ı	10.0	35.6	3.631	11	1	3.631	35.60
2401 - 2483.5	CCK	-	18.8	7.1	25.9	0.392	11	Į Į	3.031	ან.60
5150-5250	OFDM		13.4	8.7	22.1	0.162	4	0	-	-
5250-5350	OFDM		18.2	11.7	29.9	0.977	4	0	-	-
5470-5725	OFDM		18.0	11.8	29.8	0.955	4	0	-	
5725 - 5850	OFDM	22.3	-	11.8	34.1	2.570	5	1	2.570	34.10
Totals								2	6.201	37.92

Worse Case Condition

	Power Density (S)	MPE Limit	Distance where
EIRP	at 20 cm	at 20 cm	S <= MPE Limit
mW	mW/cm^2	mW/cm ²	cm
6201.2	1.234	1.000	22.2