Client:	Ericsson Canada	Job Number:	JD99841
Model:	APINM210	T-Log Number:	T99885
		Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Maximum Permissible Exposure / SAR Exclusion

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: 10/28/2015

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/m^2), 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:	Yes

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.

Note: The regulatory power levels were used in the MPE calculations. These represent the worse case condition based on the production target power levels and manufacturing tolerance.

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Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

FCC MPE Calculation

Use: General

Antenna: See antenna information

Worse case modes used for each band (including beamforming modes)

Freq. MHz	EUT Power dBm	EUT Power mW*	Cable Loss Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Power Density (S) at 20 cm mW/cm^2	MPE Limit at 20 cm mW/cm^2
2412	21.6	144.5	0	5	21.6	457.10	0.091	1.000
2437	24.4	275.4	0	5	24.4	871.00	0.173	1.000
2462	18.5	70.8	0	5	18.5	223.90	0.045	1.000
5180	22.2	166.0	0	6	22.2	660.70	0.131	1.000
5200	23.3	213.8	0	6	23.3	851.10	0.169	1.000
5240	26.4	436.5	0	6	26.4	1737.80	0.346	1.000
5270	23.7	234.4	0	6	23.7	933.30	0.186	1.000
5310	19.9	97.7	0	6	19.9	389.00	0.077	1.000
5530	20.4	109.6	0	5.8	20.4	416.90	0.083	1.000
5610	23.7	234.4	0	5.8	23.7	891.30	0.177	1.000
5690	23.5	225.1	0	5.8	23.5	855.80	0.170	1.000
5745	18.4	69.2	0	5.2	18.4	229.10	0.046	1.000
5785	23.5	223.9	0	5.2	23.5	741.30	0.147	1.000
5825	18.7	74.1	0	5.2	18.7	245.50	0.049	1.000

Worse case operaiton of 2.4GHz and 5GHz operating at the same time

Freq. MHz	% of limit	Total % of limit
2437	17.3%	51.9%
5240	34.6%	

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Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Industry Canada MPE Calculation

Use: General

Antenna: See antenna information

Worse case modes used for each band (including beamforming modes)

Freq. MHz	EUT Power dBm	EUT Power mW*	Cable Loss Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Power Density (S) at 20 cm mW/cm^2	MPE Limit at 20 cm mW/cm^2
2412	21.6	144.5	0	5	21.6	457.09	0.091	0.537
2437	24.4	275.4	0	5	24.4	870.96	0.173	0.540
2462	18.5	70.8	0	5	18.5	223.87	0.045	0.544
5190	16.8	47.9	0	6	16.8	190.55	0.038	0.906
5230	16.8	47.9	0	6	16.8	190.55	0.038	0.911
5260	22.8	190.5	0	6	22.8	758.58	0.151	0.914
5300	23.3	213.8	0	6	23.3	851.14	0.169	0.919
5320	20.7	117.5	0	6	20.7	467.74	0.093	0.921
5270	23.7	234.4	0	6	23.7	933.25	0.186	0.915
5310	19.9	97.7	0	6	19.9	389.05	0.077	0.920
5530	20.4	109.6	0	5.8	20.4	416.87	0.083	0.946
5610	23.7	234.4	0	5.8	23.7	891.25	0.177	0.955
5690	23.5	225.1	0	5.8	23.5	855.81	0.170	0.965
5745	18.4	69.2	0	5.2	18.4	229.09	0.046	0.971
5785	23.5	223.9	0	5.2	23.5	741.31	0.147	0.976
5825	18.7	74.1	0	5.2	18.7	245.47	0.049	0.980
					Worse case total Power Density for 2.4GHz and 5GHz simultanous Tx:		0.359	

Worse case operaiton of 2.4GHz and 5GHz operating at the same time

Freq. MHz	% of limit	Total % of limit
2437	32.1%	52.3%
5270	20.3%	