

Irish Antenna Information

English Language Required for Intel Regulatory Review / Approval

(OEM/ODM or antenna vendor is required to complete this document with platform antenna information.

Remove Intel references and make this your own document)

Platform information					
Brand	ODM	****End product model name	Intel platform (ex: Yes, No or NA)	Platform type (ex: regular NB, convertible PC, AIO...etc)	*SAR minimum separation (mm)
ETHETA					
*****Please fill in exact product model name and make sure the model name is visible on product cover or any parts for end users recognize for authority inspection.					
Antenna information					
Vendor	Vendor address		Type	Antenna Part number (WIFI_0)	Antenna Part number(WIFI_1)
Etheta Communication Technology CO.,LTD	Area B and D, 3rd Floor, Building 1, Baisha Science and Technology Industrial Park, No. 3011 Shahe West Road, Nanshan District, Shenzhen		FPC+Cable	RD1202302NB87-1	RD1202302NB87-2
Peak gain w/ cable loss (dBi)*					
Band	2.4GHz 2400-2483.5MHz	5.2GHz 5150-5250MHz	5.3GHz 5250-5350MHz	5.6GHz 5350-5725MHz	5.8GHz 5725-5850MHz
Wifi 0#	0.9	2.8	2.9	3.0	1.7
Wifi 1#	2.5	1.8	2.4	2.9	1.6
Notes (marked with *) * SAR minimum separation (mm) - Regular NB: Minimum antenna-to-body (from antenna bottom to the bottom of the device) - Tablet / Convertible PC: Minimum antenna-to-edge (5 sides of the device) - Mini-tablet: Minimum antenna-to-edge (6 sides of the device) * 3D Peak Antenna gain should be equal or greater than -2 dBi - If a host integrator plans to use a lower gain antenna of the same type, additional CBP(FCC)/EDT(EU) testing need to be performed while the module is installed in the host.					

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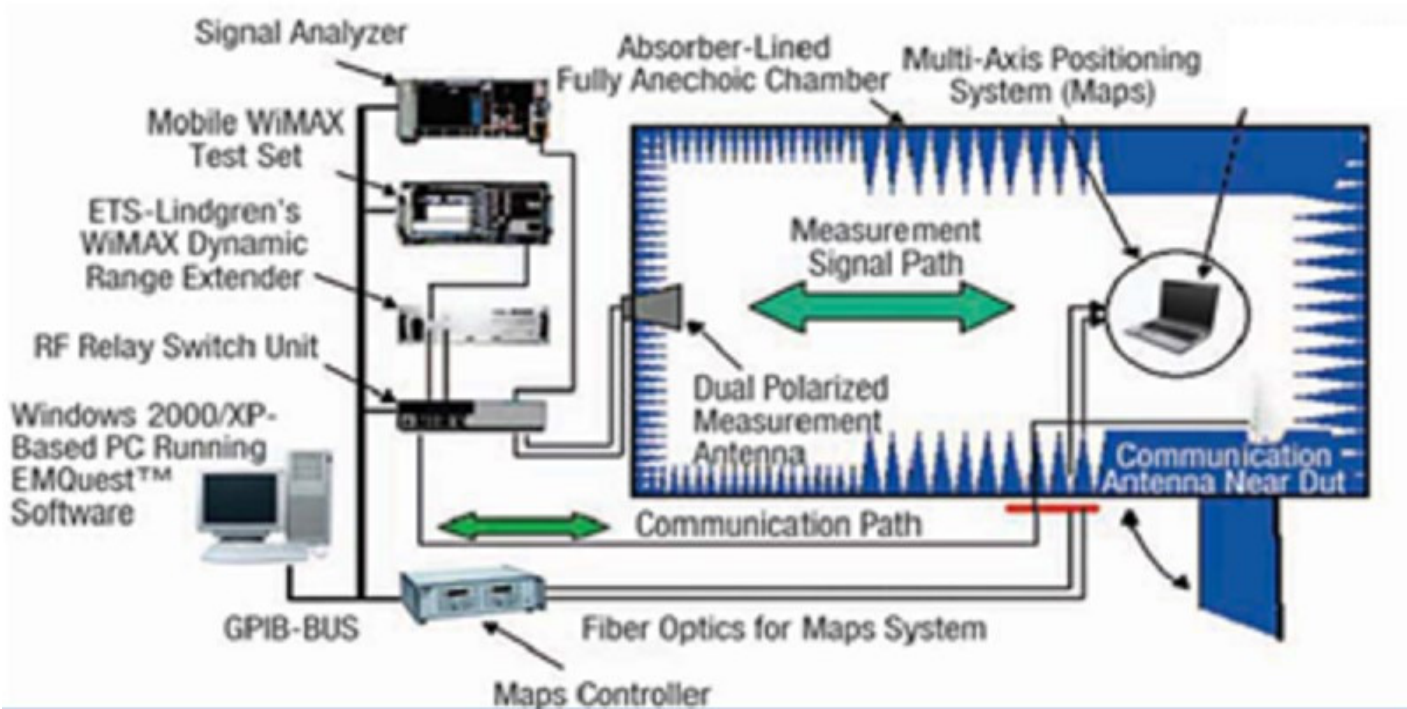
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1. **Applicable test methods**

This test report is prepared for host antenna testing under a Full Anechoic Chamber.

2. **Test & System Description**

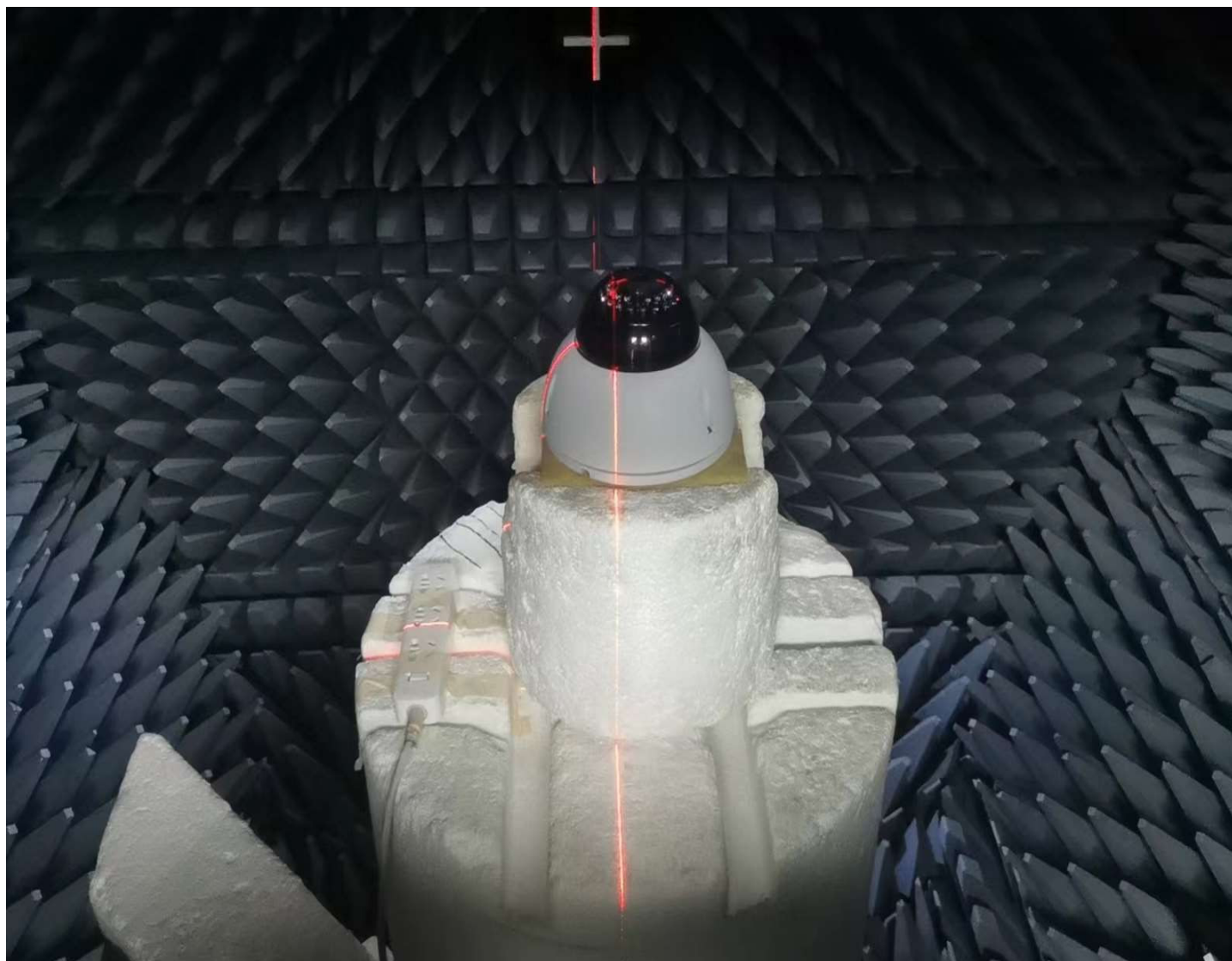
a. Test setup



b. Equipment list

Number	Device	Manufacter	Cal. Date	Cal. Due. Date
1	Turn table control box	EMT	2022/11/20	2023/11/20
2	Turn table control computer	EMT	2022/11/20	2023/11/20
3	TX/RX RF power and its control unit	EMT	N/A	N/A
4	Probe switch array	EMT	N/A	N/A
5	Test system host	EMT	N/A	N/A
6	Notwork analyzer	EMT	2022/11/20	2023/11/20
7	RF line TX	EMT	N/A	N/A
8	RF line RX	EMT	N/A	N/A
9	UPS uninterruptible power supply	EMT	N/A	N/A
10	Cable 2m 1GHz 8.5GHz	Atem	2022/11/20	2023/11/20
11	Chamber	EMT	2022/11/20	2023/11/20
12	Horn antenna	EMT	N/A	N/A

3. Setup photo



Antenna Information

Section 1. Antenna Assembly Specifications

(WIFI0#)Passive test data

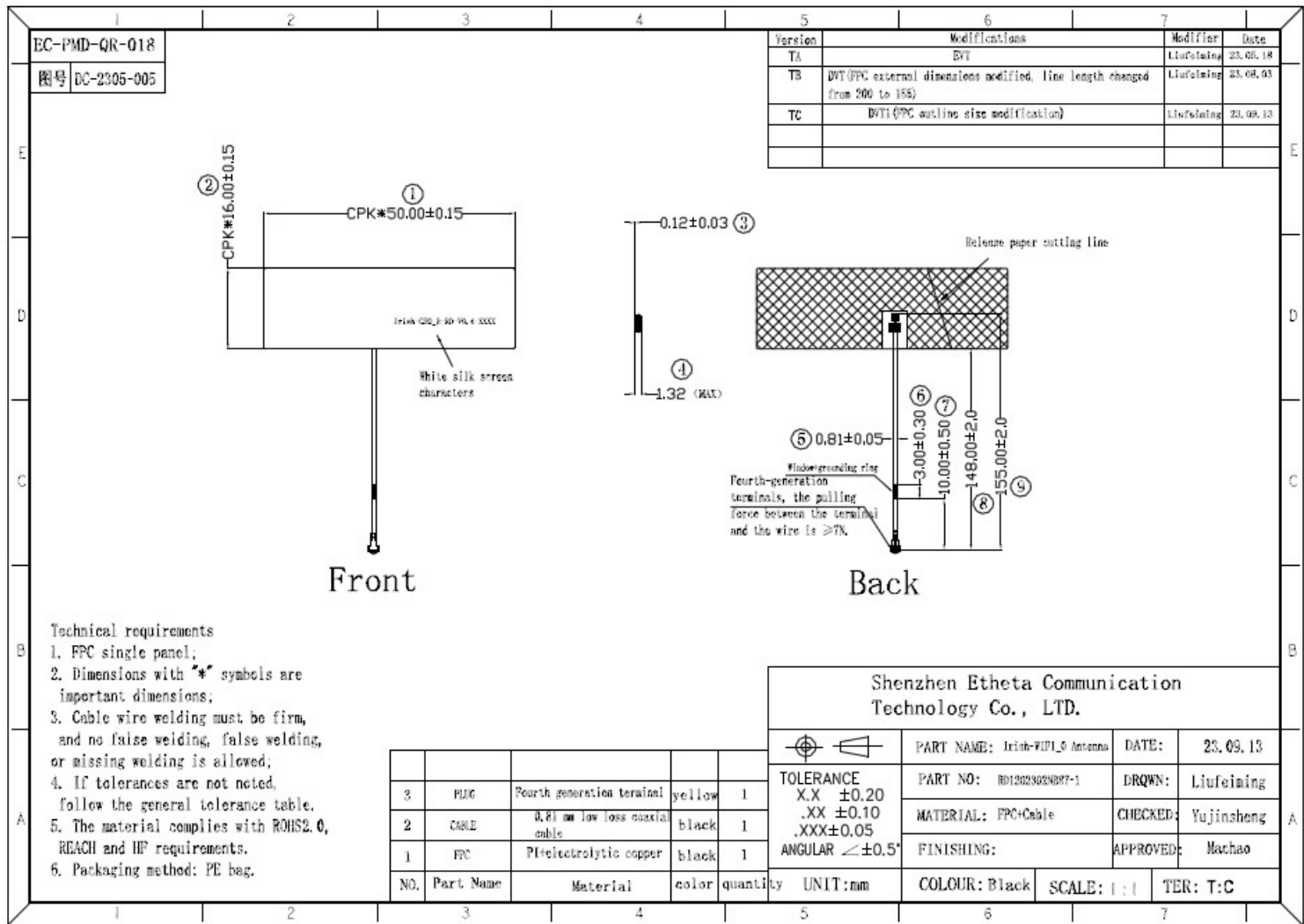
frequency(Mhz)	efficiency(%)	efficiency(db)
2400	38%	-4.16
2410	38%	-4.21
2420	37%	-4.32
2430	37%	-4.33
2440	37%	-4.37
2450	36%	-4.40
2460	37%	-4.35
2470	37%	-4.29
2480	37%	-4.31
2490	37%	-4.36
2500	36%	-4.38
5150	33%	-4.76
5200	34%	-4.75
5250	30%	-5.17
5300	30%	-5.29
5350	29%	-5.36
5400	28%	-5.46
5450	29%	-5.30
5500	32%	-4.89
5550	36%	-4.43
5600	37%	-4.30
5650	36%	-4.46
5700	33%	-4.80
5750	31%	-5.10
5800	29%	-5.44
5850	24%	-6.13

(WIFI1#)Passive test data

frequency(Mhz)	efficiency(%)	efficiency(db)
2400	41%	-3.87
2410	39%	-4.07
2420	37%	-4.30
2430	36%	-4.47
2440	34%	-4.65
2450	33%	-4.82
2460	33%	-4.87
2470	33%	-4.88
2480	32%	-4.88
2490	32%	-4.89
2500	33%	-4.84
5150	40%	-4.02
5200	41%	-3.91
5250	39%	-4.09
5300	38%	-4.20
5350	35%	-4.54
5400	33%	-4.81
5450	35%	-4.52
5500	37%	-4.34
5550	38%	-4.16
5600	39%	-4.12
5650	38%	-4.20
5700	35%	-4.61
5750	32%	-4.96
5800	30%	-5.29
5850	26%	-5.78

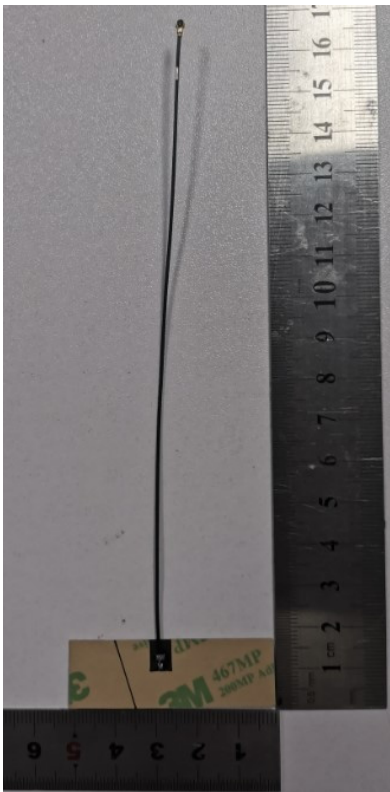
Include the dimensioned photo and drawing of Main antenna here.

Irish WIFI_0 Antenna Drawing:





Irish WIFI_0 Antenna Photo (Front/Back):



Irish WIFI_1 Antenna Photo (Front/Back):

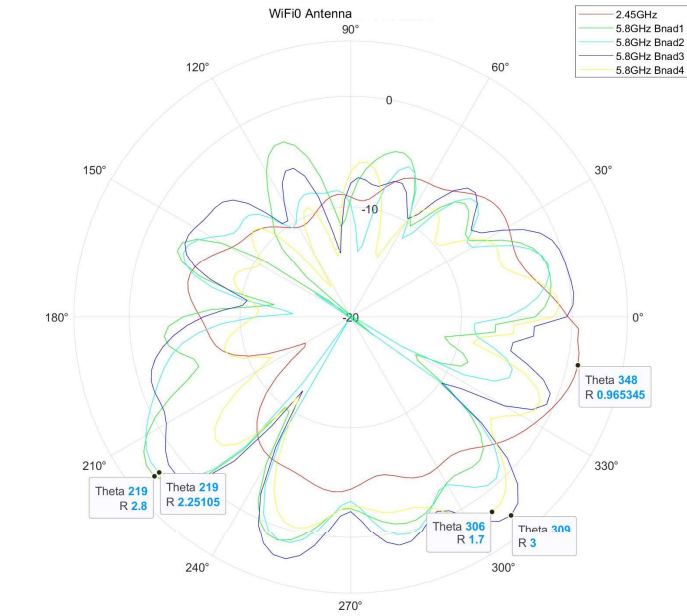


Note: antenna photo should include L type ruler

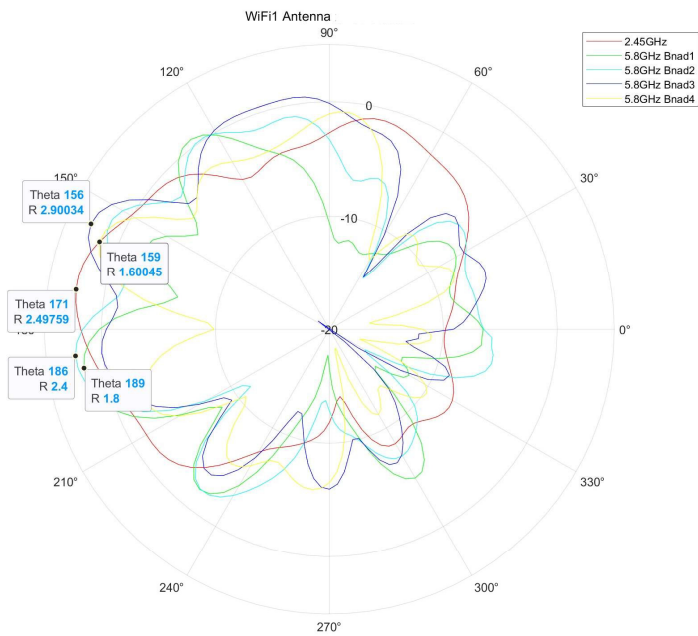
Include the dimensioned photo and drawing of Aux antenna here.

Section 3. Radiation characteristics of antenna loaded in Host Platform

WiFi 0#



WiFi 1#



Section 4. Antenna Host Platform Location Information

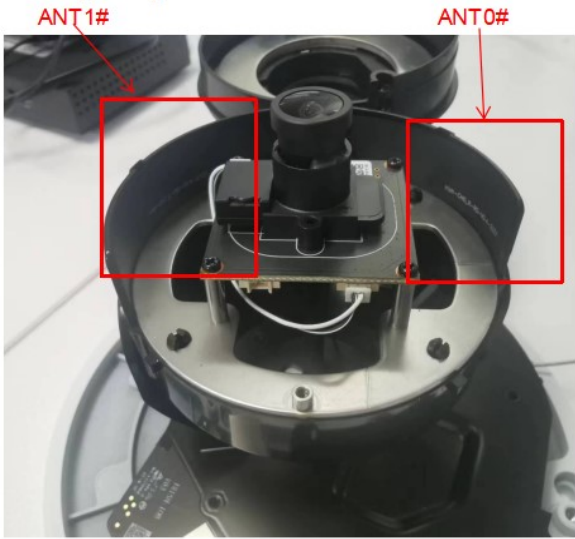
Include a **dimensioned photo(s) or dimensioned drawing(s)** of Main and Aux antenna placements (measurements are not required for receive-only antenna).

Any antenna that transmits must show dimensions to bottom of laptop. Provide a description of the materials that are used for supporting or surrounding transmit antennas; for example, non-conductive plastics vs. conductive coated plastic or metallic materials.

Section 5. Antenna dimensional information for SAR evaluation

Include a **dimensioned photo(s) or dimensioned drawing(s)** showing the distance (mm) between the transmit antennas and the user. For notebook/laptop hosts show lapheld position (example below). For tablet hosts show all orientations including lapheld, primary & secondary portrait, primary & secondary landscape positions. Include a description of any proximity sensors or power throttling implementations that limit or exclude use of any host orientation.

Antenna layout diagram



Section 6. Diagram Example of Co-Location Antenna Separation

Include a **dimensioned photo or dimensioned drawing** showing the distance (mm) between **all WLAN transmit antennas** and other co-located radiator transmit antenna such as Bluetooth, WWAN,..

(Note: Due to the evolving rules regarding co-location, each platform will need to be reviewed on a case by case basis)