

Logitech

Antenna Under Test (AUT)

Report

Report No.: EVT-700-xxxxxx

Model Name: MR0115

Equipment Type: Mouse

Manufacturer: Logitech Far East LTD.

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park,
Hsinchu City, Taiwan

Tested by: YuMing Tian / Tobey Chen

Report Date: 2024/04/02

Report Release History

Report version	Description	Date Issued
MR0115 AUT Report	Original release	2024/04/02

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1. EUT Antenna Information

- 1) Antenna Material : PCB on board
- 2) Antenna Type : PIFA
- 3) Antenna Dimension: 22 x 13.6 mm
- 4) Operating Frequency: 2.4 GHz - 2.4835 GHz
- 5) Input Impedance : 50 Ω
- 6) Standing-Wave Ratio: 2:1

2. Measured Values and Calculation of Antenna Gains

Measure peak horizontal/vertical EIRP on each x-y, y-z, x-z plane. The highest measured values will be used to calculate the antenna peak gain.

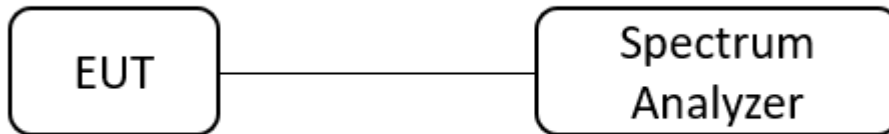
Antenna Peak Gain (dBi) = Max EIRP(dBm) - Conducted Power (dBm)

Frequency	X-Y Plane $\phi=0\sim360^\circ, \theta=90^\circ$		X-Z Plane $\phi=0^\circ, \theta=0\sim360^\circ$		Y-Z Plane $\phi=90^\circ, \theta=0\sim360^\circ$		Max Peak EIRP (dBm)	Conducted Power (dBm)	Antenna Peak Gain (dBi)
	Ver. Peak EIRP (dBm)	Hori. Peak EIRP (dBm)	Ver. Peak EIRP (dBm)	Hori. Peak EIRP (dBm)	Ver. Peak EIRP (dBm)	Hori. Peak EIRP (dBm)			
2403	-5.64	7.24	8.22	-2.57	5.51	7.25	8.22	4.90	3.32
2442	-5.92	6.88	8.15	-2.82	5.65	7.14	8.15	4.93	3.22
2479	-6.29	7.64	7.94	-3.40	4.97	6.99	7.94	4.73	3.21

Test Date: 2024/04/02

3. RF Conducted Power Measurement

3.1 Test Setup



3.2 Test Instruments

Description	Model No.	Serial No.	Last Calibration
Spectrum Analyzer Keysight	N9010A	MY49060166	2022/12/20

Note: The calibration interval of the above test instruments is __24__ months

3.3 Test Procedure

A spectrum analyzer or Power meter was used to perform output power measurement, setting the detector to average and configuring EUT continuously transmitting power(100% duty cycle).

3.4 Test Result of RF conducted Power

Frequency (MHz)	Measured Power (dBm)
2403	4.90
2442	4.93
2479	4.73

Test Date: 2024/04/02

4. 2D Radiation Pattern Measurement

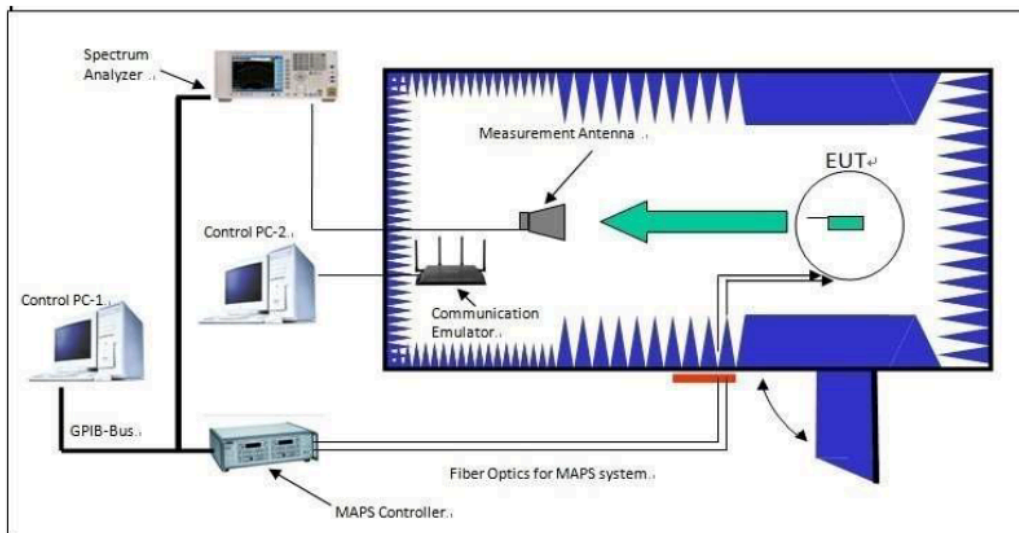
4.1 Test Location

2D radiation pattern measurement in the anechoic chamber

4.2 Description of the anechoic chamber

Anechoic Chamber

- Length: 10m
- Width: 5m
- Height: 5m
- Turntable height: 1.5m
- Measurement Antenna height: 1.5m



4.3 Test Instruments

Description	Model No.	Serial No.	Last Calibration
Spectrum Analyzer Keysight	N9030A	MY55330160	2024/01/31
Horn Antenna ETS	BBHA 9120 D	124	2023/11/12

Software	Antenna Pattern V6.3	N/A	N/A
Antenna Tower/ Turntable	MF-7802	MF780208411	N/A
PSG analog signal generator (from 250 kHz to 50 GHz) Keysight	E8257D	MY53401987	2023/6/14
RF Coaxial Cable	EMC102-KM-KM-1000	160202R	2023/06/02

Note: The calibration interval of the above test instruments is __12__ months

4.4 Test Procedure

- i. Connect the EUT to power meter and record the power setting of EUT and the measured conducted power.
- ii. Fasten the EUT in the center of the turntable, record the coordinates and take pictures.
- iii. Configuring EUT continuously transmitting (100% duty cycle).
- iv. Make sure the transmit signal is stable and at the maximum RF power level.
- v. Setup the channel power function by spectrum analyzer.
- vi. Read the power level on the spectrum analyzer and record in the following positions.
 1. The turntable is then stepped between 0 to 360 degrees along the horizontal plane in 1-degree increments.
 2. Data is recorded using the spectrum analyzer for both theta and phi polarizations at each position.
- vii. Rotate the EUT with 90 degrees and repeat step f.1 and step f.2 until all 3 planes(X-Y,X-Z,Y-Z) were measured.
- viii. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Raw Value". Record the power level of S.G.
$$\text{EIRP} = P_{\text{SigGen}} + G_T - L_C$$

where:

P_{SigGen} = power setting of the signal generator that produces the same received power reading as the DUT, in dBm;

G_T = gain of the substitute antenna, in dBd (ERP) or dBi (EIRP);

L^C = signal loss in the cable connecting the signal generator to the substitute antenna, in dB
- ix. Antenna Peak Gain (dBi) = Max EIRP(dBm) - Conducted Power (dBm)

4.5 Test Setup photos confidential

4.6 2D Pattern Test Plot

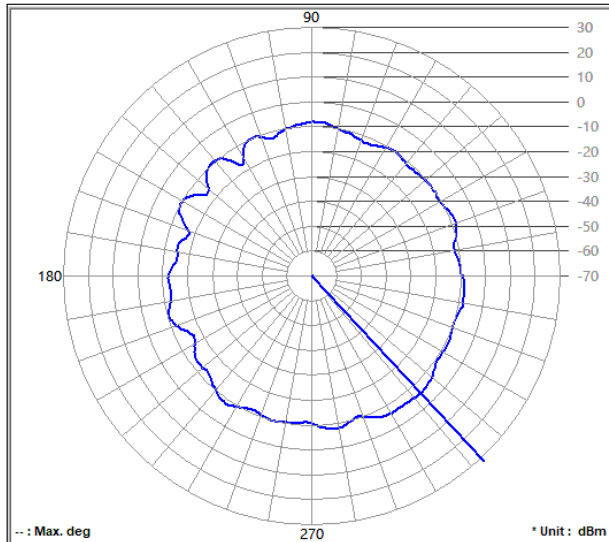
X-Y Plane



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Brand / Model : Torpedo
Remark : EUT X-Y, 2403MHz, Battery, Conducted =0
Sample No. A110
Tested by : Tobey Chen

Location: RF Chamber 1 Date: 2024/4/2 Time: 上午 10:05:04
Temperature (°C): 23 Humidity (%): 74 Approved by:



Frequency (MHz): 2403.00 Antenna Polarity: Vertical Average Value (dBm): -9.90
Maximum Value (dBm): -5.64 Maximum Value (degree): 313
Minimum Value (dBm): -18.07 Minimum Value (degree): 161

V 6.2

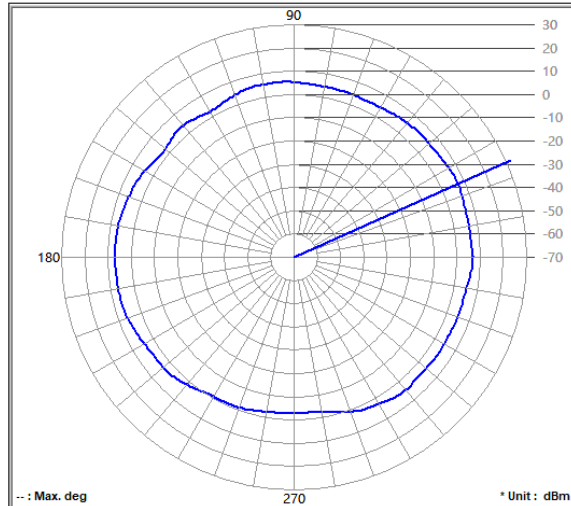
D:\Antenna Pattern V6.3\Graph\0402\04020001.png



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Brand / Model : Torpedo
Remark : EUT X-Y, 2403MHz, Battery, Conducted =0
Sample No. A110
Tested by : Tobey Chen

Location: RF Chamber 1 Date: 2024/4/2 Time: 上午 10:08:47
Temperature (°C): 23 Humidity (%): 74 Approved by:



Frequency (MHz): 2403.00 Antenna Polarity: Horizontal Average Value (dBm): 4.54
Maximum Value (dBm): 7.24 Maximum Value (degree): 24
Minimum Value (dBm): -2.99 Minimum Value (degree): 272

V 6.2

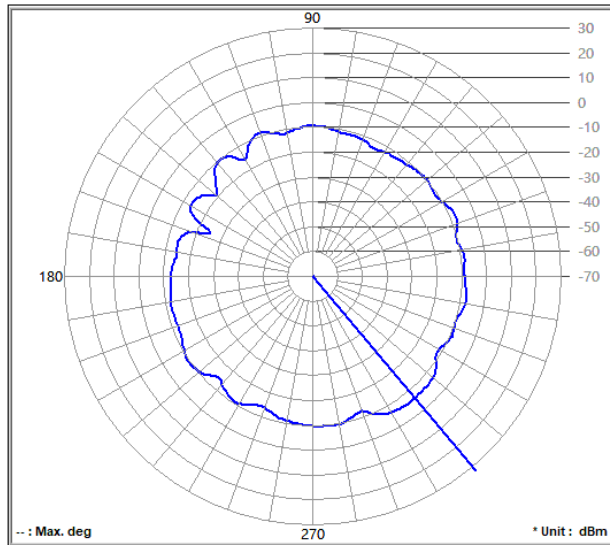
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Brand / Model : Torpedo
Remark : EUT X-Y, 2442MHz, Battery, Conducted =0
Sample No. A110
Tested by : Tobey Chen

Location: RF Chamber 1 Date: 2024/4/2 Time: 上午 10:14:38
Temperature (°C): 23 Humidity (%): 74 Approved by:



Frequency (MHz): 2442.00 Antenna Polarity: Vertical Average Value (dBm): -10.26
Maximum Value (dBm): -5.92 Maximum Value (degree): 310
Minimum Value (dBm): -25.10 Minimum Value (degree): 157
V 8.2

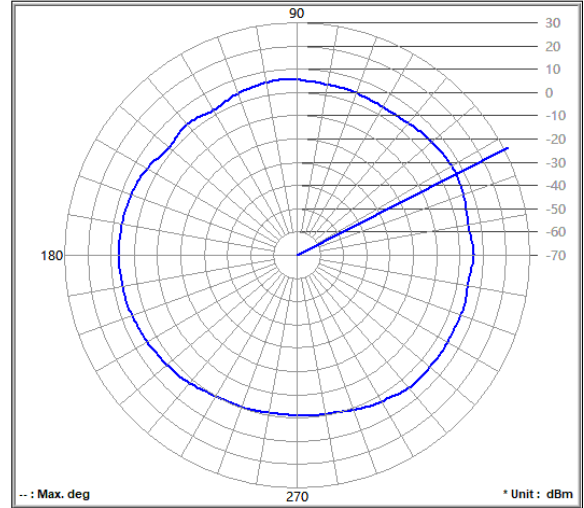
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Brand / Model : Torpedo
Remark : EUT X-Y, 2442MHz, Battery, Conducted =0
Sample No. A110
Tested by : Tobey Chen

Location: RF Chamber 1 Date: 2024/4/2 Time: 上午 10:12:40
Temperature (°C): 23 Humidity (%): 74 Approved by:



Frequency (MHz): 2442.00 Antenna Polarity: Horizontal Average Value (dBm): 4.30
Maximum Value (dBm): 6.88 Maximum Value (degree): 27
Minimum Value (dBm): -1.29 Minimum Value (degree): 263
V 8.2

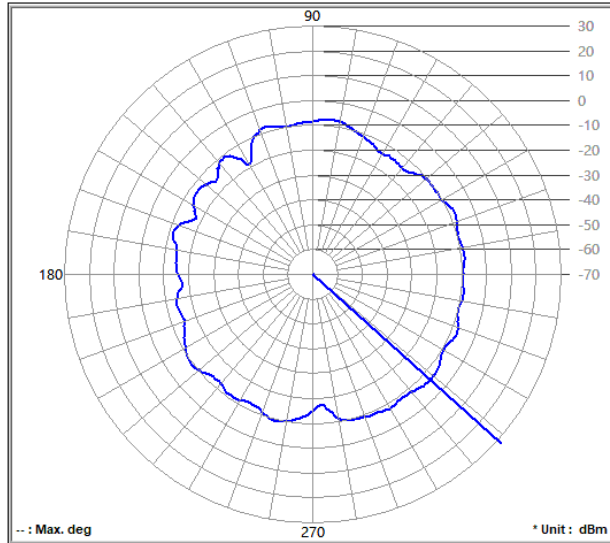
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Brand / Model : Torpedo
Remark : EUT X-Y, 2479MHz, Battery, Conducted =0
Sample No. A110
Tested by : Tobey Chen

Location: RF Chamber 1 Date: 2024/4/2 Time: 上午 10:18:22
Temperature (°C): 23 Humidity (%): 74 Approved by:



Frequency (MHz): 2479.00 Antenna Polarity: Vertical Average Value (dBm): -10.28
Maximum Value (dBm): -6.29 Maximum Value (degree): 318
Minimum Value (dBm): -18.80 Minimum Value (degree): 120

V 6.2

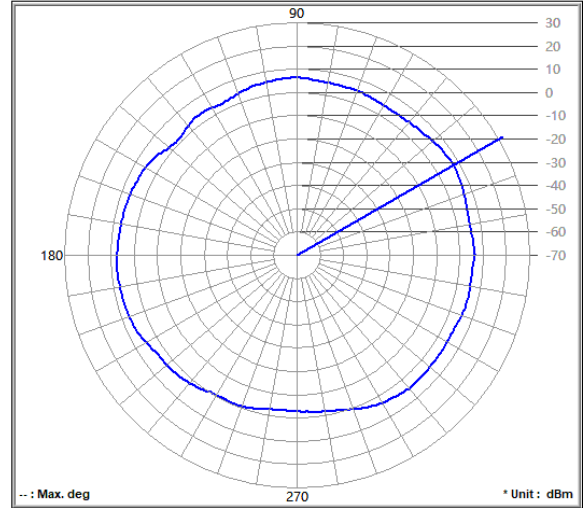
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Brand / Model : Torpedo
Remark : EUT X-Y, 2479MHz, Battery, Conducted =0
Sample No. A110
Tested by : Tobey Chen

Location: RF Chamber 1 Date: 2024/4/2 Time: 上午 10:21:45
Temperature (°C): 23 Humidity (%): 74 Approved by:



Frequency (MHz): 2479.00 Antenna Polarity: Horizontal Average Value (dBm): 4.77
Maximum Value (dBm): 7.64 Maximum Value (degree): 30
Minimum Value (dBm): -3.12 Minimum Value (degree): 264

V 6.2

D:\Antenna Pattern V6.3\Graph\0402\04020006.png

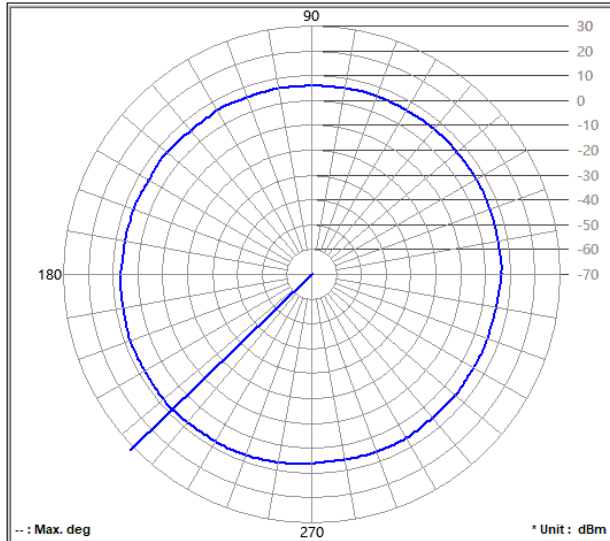
X-Z Plane



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Brand / Model : Torpedo
Remark : EUT X-Z, 2403MHz, Battery, Conducted =0
Sample No. A110
Tested by : Tobey Chen

Location: RF Chamber 1 Date: 2024/4/2 Time: 上午 10:33:53
Temperature (°C): 23 Humidity (%): 74 Approved by:



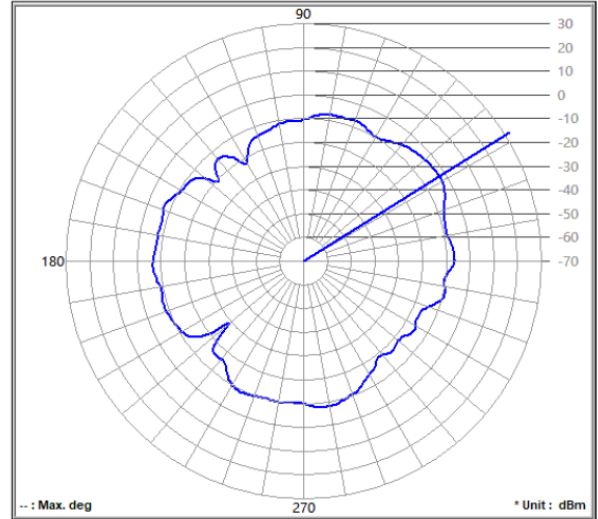
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Brand / Model : Torpedo
Remark : EUT X-Z, 2403MHz, Battery, Conducted =0
Sample No. A110
Tested by : Tobey Chen

Location: RF Chamber 1 Date: 2024/4/2 Time: 上午 10:29:07
Temperature (°C): 23 Humidity (%): 74 Approved by:



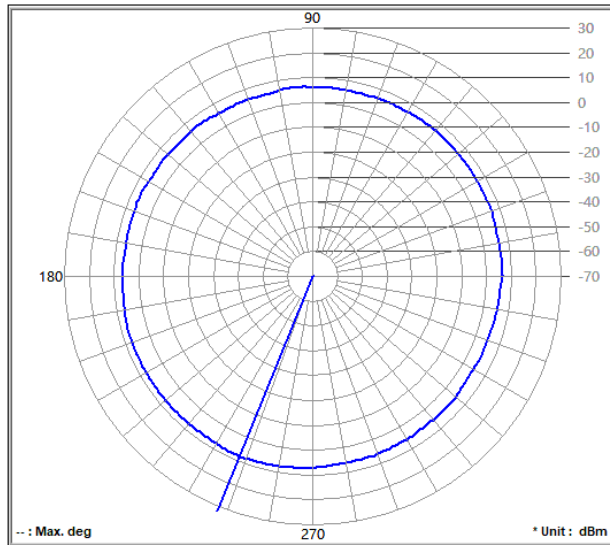
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Brand / Model : Torpedo
Remark : EUT X-Z, 2442MHz, Battery, Conducted =0
Sample No. A110
Tested by : Tobey Chen

Location: RF Chamber 1 Date: 2024/4/2 Time: 上午 10:39:49
Temperature (°C): 23 Humidity (%): 74 Approved by:



Frequency (MHz): 2442.00 Antenna Polarity: Vertical Average Value (dBm): 6.49
Maximum Value (dBm): 8.15 Maximum Value (degree): 248
Minimum Value (dBm): 4.51 Minimum Value (degree): 327

V 6.2

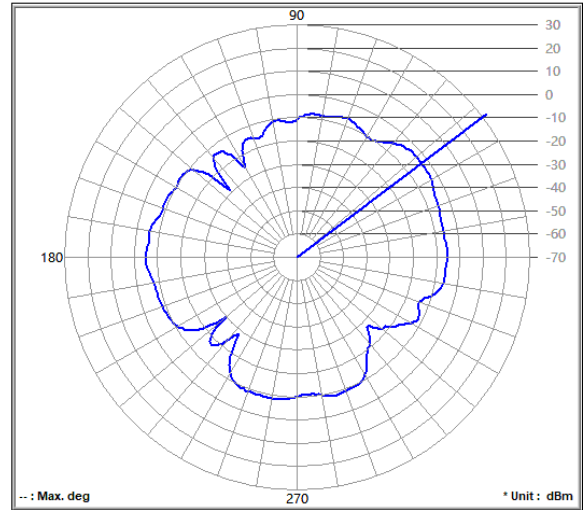
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Brand / Model : Torpedo
Remark : EUT X-Z, 2442MHz, Battery, Conducted =0
Sample No. A110
Tested by : Tobey Chen

Location: RF Chamber 1 Date: 2024/4/2 Time: 上午 10:45:39
Temperature (°C): 23 Humidity (%): 74 Approved by:



Frequency (MHz): 2442.00 Antenna Polarity: Horizontal Average Value (dBm): -8.46
Maximum Value (dBm): -2.82 Maximum Value (degree): 37
Minimum Value (dBm): -30.58 Minimum Value (degree): 220

V 6.2

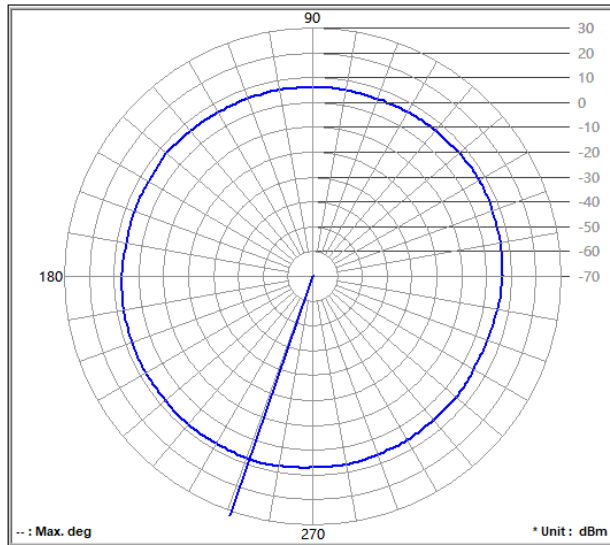
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Brand / Model : Torpedo
Remark : EUT X-Z, 2479MHz, Battery, Conducted =0
Sample No. A110
Tested by : Tobey Chen

Location: RF Chamber 1 Date: 2024/4/2 Time: 上午 10:59:34
Temperature (°C): 23 Humidity (%): 74 Approved by:



Frequency (MHz): 2479.00 Antenna Polarity: Vertical Average Value (dBm): 6.66
Maximum Value (dBm): 7.94 Maximum Value (degree): 251
Minimum Value (dBm): 4.61 Minimum Value (degree): 333
V 8.2

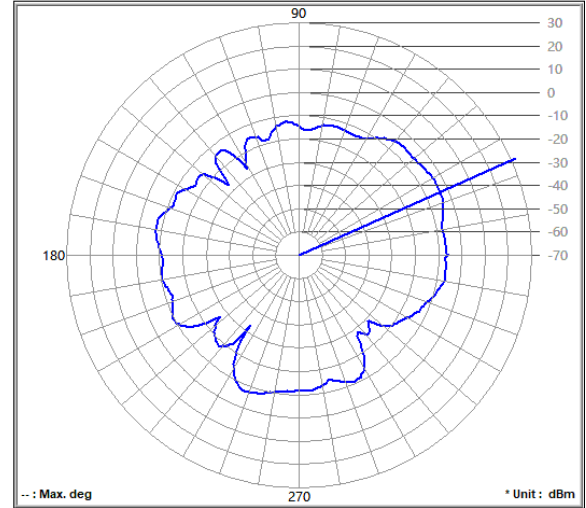
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Brand / Model : Torpedo
Remark : EUT X-Z, 2479MHz, Battery, Conducted =0
Sample No. A110
Tested by : Tobey Chen

Location: RF Chamber 1 Date: 2024/4/2 Time: 上午 10:54:23
Temperature (°C): 23 Humidity (%): 74 Approved by:



Frequency (MHz): 2479.00 Antenna Polarity: Horizontal Average Value (dBm): -10.01
Maximum Value (dBm): -3.40 Maximum Value (degree): 24
Minimum Value (dBm): -33.29 Minimum Value (degree): 235
V 8.2

D:\Antenna Pattern V6.3\Graph\0402\04020011.png

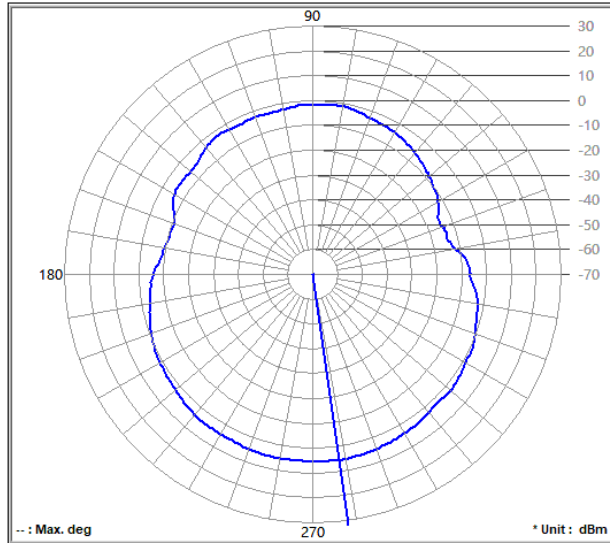
Y-Z Plane



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Brand / Model : Torpedo
Remark : EUT Y-Z, 2403MHz, Battery, Conducted =0
Sample No. A110
Tested by : Tobey Chen

Location: RF Chamber 1 Date: 2024/4/2 Time: 上午 11:05:54
Temperature (°C): 23 Humidity (%): 74 Approved by:



Frequency (MHz): 2403.00 Antenna Polarity: Vertical Average Value (dBm): 0.53
Maximum Value (dBm): 5.51 Maximum Value (degree): 278
Minimum Value (dBm): -14.80 Minimum Value (degree): 21

V 6.2

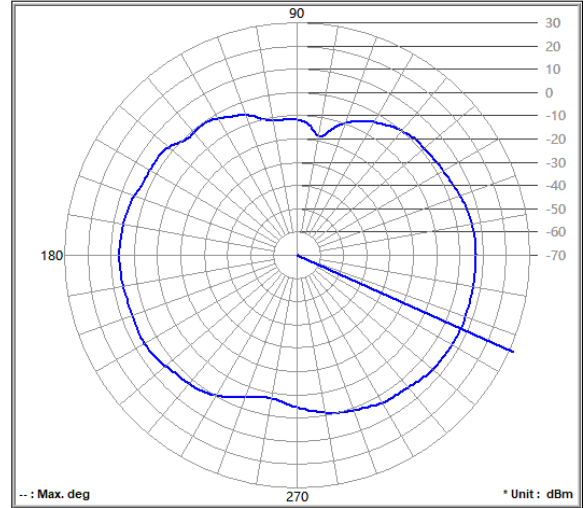
D:\Antenna Pattern V6.3\Graph\0402\04020013.png



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Brand / Model : Torpedo
Remark : EUT Y-Z, 2403MHz, Battery, Conducted =0
Sample No. A110
Tested by : Tobey Chen

Location: RF Chamber 1 Date: 2024/4/2 Time: 上午 11:11:59
Temperature (°C): 23 Humidity (%): 74 Approved by:



Frequency (MHz): 2403.00 Antenna Polarity: Horizontal Average Value (dBm): 3.26
Maximum Value (dBm): 7.25 Maximum Value (degree): 336
Minimum Value (dBm): -18.29 Minimum Value (degree): 79

V 6.2

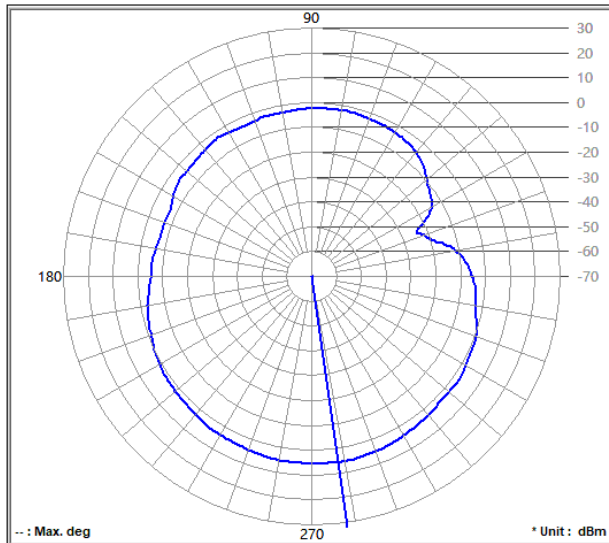
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Brand / Model : Torpedo
Remark : EUT Y-Z, 2442MHz, Battery, Conducted =0
Sample No. A110
Tested by : Tobey Chen

Location: RF Chamber 1 Date: 2024/4/2 Time: 上午 11:21:29
Temperature (°C): 23 Humidity (%): 74 Approved by:



Frequency (MHz): 2442.00 Antenna Polarity: Vertical Average Value (dBm): 0.47
Maximum Value (dBm): 5.65 Maximum Value (degree): 278
Minimum Value (dBm): -24.21 Minimum Value (degree): 22

V 6.2

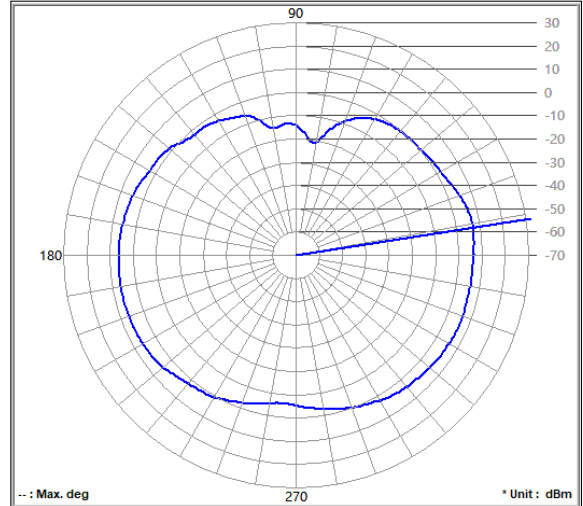
D:\Antenna Pattern V6.3\Graph\0402\04020016.png



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Brand / Model : Torpedo
Remark : EUT Y-Z, 2442MHz, Battery, Conducted =0
Sample No. A110
Tested by : Tobey Chen

Location: RF Chamber 1 Date: 2024/4/2 Time: 上午 11:18:12
Temperature (°C): 23 Humidity (%): 74 Approved by:



Frequency (MHz): 2442.00 Antenna Polarity: Horizontal Average Value (dBm): 3.06
Maximum Value (dBm): 7.14 Maximum Value (degree): 9
Minimum Value (dBm): -21.21 Minimum Value (degree): 81

V 6.2

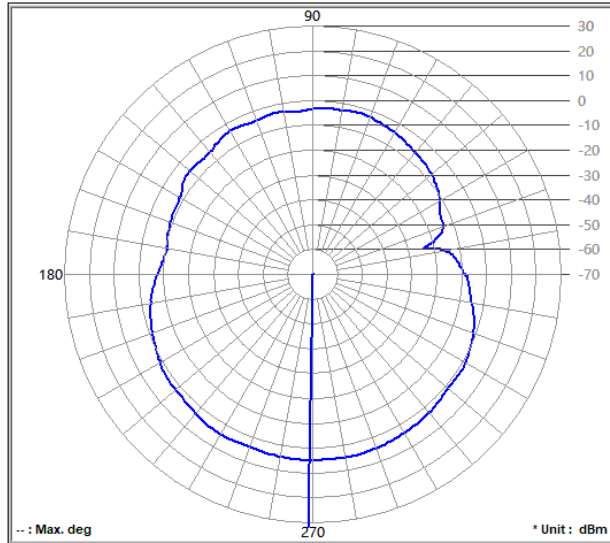
D:\Antenna Pattern V6.3\Graph\0402\04020015.png



香港商立德國際商品試驗有限公司桃園分公司
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Brand / Model : Torpedo
Remark : EUT Y-Z, 2479MHz, Battery, Conducted =0
Sample No. A110
Tested by : Tobey Chen

Location: RF Chamber 1 Date: 2024/4/2 Time: 上午 11:26:16
Temperature (°C): 23 Humidity (%): 74 Approved by:



Frequency (MHz): 2479.00 Antenna Polarity : Vertical Average Value (dBm) : 0.01
Maximum Value (dBm) : 4.97 Maximum Value (degree) : 269
Minimum Value (dBm) : -24.25 Minimum Value (degree) : 13

V 6.2

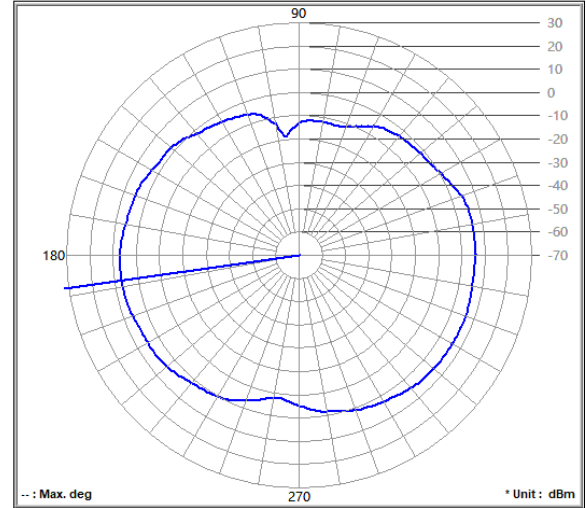
D:\Antenna Pattern V6.3\Graph\0402\04020017.png



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Brand / Model : Torpedo
Remark : EUT Y-Z, 2479MHz, Battery, Conducted =0
Sample No. A110
Tested by : Tobey Chen

Location: RF Chamber 1 Date: 2024/4/2 Time: 上午 11:29:56
Temperature (°C): 23 Humidity (%): 74 Approved by:



Frequency (MHz) : 2479.00 Antenna Polarity : Horizontal Average Value (dBm) : 2.91
Maximum Value (dBm) : 6.99 Maximum Value (degree) : 188
Minimum Value (dBm) : -18.58 Minimum Value (degree) : 96

V 6.2

D:\Antenna Pattern V6.3\Graph\0402\04020018.png