

Multi-Antenna Systems Directional Gain measurement

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**FCC Registration /
Designation Number:** 788550 / TW0003

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Release Control Record

Issue No.	Description	Date Issued
RFBBQZ-WTW-P22110099-6	Original release.	2023/5/24

1 EUT Antenna System Description

1.1 Antenna Information

Frequency Band		Ant 0 (dBi)	Ant 1 (dBi)	Ant 2 (dBi)	Ant 3 (dBi)
Transmitter Chain		Chain 0	Chain 1	Chain 2	Chain 3
Frequency Band	2400~2483.5MHz (2.4G)	2	1.9	2	2
	5150~5250MHz (5G)	1.8	1.7	1.7	2
	5250~5350MHz (5G)	2.8	2.6	2.5	2.5
	5470~5725MHz (5G)	2.9	2.8	2.8	2.9
	5725~5850MHz (5G)	2.7	2.6	2.9	2.8

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

1.2 Antenna Location

Please refer to report BBQZ-WTW-P22110099_INT Page 34-36.

1.3 EUT Operation mode

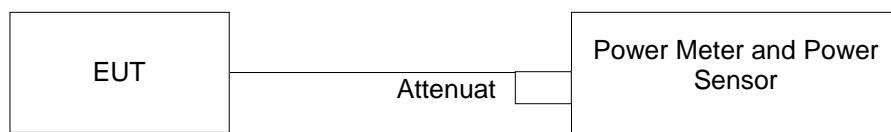
Band	Modulation Mode	CDD mode	Beamforming mode
2.4GHz	802.11b	Nss1	Not Support
	802.11g	Nss1	Not Support
	802.11n (HT20)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11n (HT40)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	VHT20	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	VHT40	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ax (HE20)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ax (HE40)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11be (EHT20)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 (Note) / Nss2 / Nss3 / Nss4
	802.11be (EHT40)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
5GHz	802.11a	Nss1	Not Support
	802.11n(HT20)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11n(HT40)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ac(VHT20)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ac(VHT40)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ac(VHT80)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ac(VHT160)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ax(HE20)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ax(HE40)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ax(HE80)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ax(HE160)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11be(EHT20)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 (Note) / Nss2 / Nss3 / Nss4
	802.11be(EHT40)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11be(EHT80)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
802.11be(EHT160)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4	

Note: The 802.11be (EHT20) in Nss 1 of beamforming mode for both 2.4 GHz and 5 GHz bands is the worst case for final testing.

Band	Modulation Mode	Ant 0	Ant 1	Ant 2	Ant 3
2.4GHz	802.11b	TX/RX	TX/RX	TX/RX	TX/RX
	802.11g	TX/RX	TX/RX	TX/RX	TX/RX
	802.11n (HT20)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11n (HT40)	TX/RX	TX/RX	TX/RX	TX/RX
	VHT20	TX/RX	TX/RX	TX/RX	TX/RX
	VHT40	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax (HE20)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax (HE40)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11be (EHT20)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11be (EHT40)	TX/RX	TX/RX	TX/RX	TX/RX
5GHz	802.11a	TX/RX	TX/RX	TX/RX	TX/RX
	802.11n(HT20)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11n(HT40)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ac(VHT20)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ac(VHT40)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ac(VHT80)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ac(VHT160)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax(HE20)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax(HE40)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax(HE80)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax(HE160)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11be(EHT20)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11be(EHT40)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11be(EHT80)	TX/RX	TX/RX	TX/RX	TX/RX
802.11be(EHT160)	TX/RX	TX/RX	TX/RX	TX/RX	

2 Conducted Power Measurement

2.1 Test Setup



2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Power Meter Anritsu	ML2495A	1529002	Jun. 22, 2022	Jun. 21, 2023
Pulse Power Sensor Anritsu	MA2411B	1726434	Jun. 22, 2022	Jun. 21, 2023

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2.3 Test Procedure

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to average. Duty factor is not added to measured value.

2.4 Test Results of RF Conducted Power (2.4GHz and 5GHz bands)

802.11be EHT20 of Beamforming Mode / Nss=1

Channel	Frequency (MHz)	Ant 0		Ant 1		Ant 2		Ant 3		Total Conducted Power (dBm)
		Chain0		Chain1		Chain2		Chain3		
		(dBm)	(mW)	(dBm)	(mW)	(dBm)	(mW)	(dBm)	(mW)	
6	2437	23.62	230.14	23.44	220.80	23.46	221.82	23.61	229.61	29.55
36	5180	10.96	12.47	11.09	12.85	10.72	11.80	10.86	12.19	16.93
64	5320	17.02	50.35	17.95	62.37	16.54	45.08	17.12	51.52	23.21
100	5500	17.15	51.88	18.15	65.31	16.57	45.39	17.08	51.05	23.30
157	5785	23.22	209.89	23.92	246.60	22.41	174.18	23.59	228.56	29.34

Note:

2.4GHz Band:

Total Conducted Power = Chain 0 + Chain 1 + Chain 2 + Chain 3

= Chain 0 (mW) + Chain 1 (mW) + Chain 2 (mW) + Chain 3 (mW) = Total Conducted Power (mW)

Total Conducted Power (dBm) = 10 * log (Total conducted power (mW)).

5.0GHz Band:

Total Conducted Power = Chain 0 + Chain 1 + Chain 2 + Chain 3

= Chain 0 (mW) + Chain 1 (mW) + Chain 2 (mW) + Chain 3 (mW) = Total Conducted Power(mW)

Total Conducted Power (dBm) = 10 * log (Total conducted power (mW)).

3 3D Antenna Pattern Measurement and Directional gain calculation (Measurement Method and Measurement Environment)

Measurement the EIRP and compare the total conducted power values to calculation the directional gain.

3.1 Test Location

3D Antenna a Pattern Measurement in Fully Anechoic Chamber

3.2 Test Procedure

KDB 662911 D03 MIMO Antenna Gain Measurement v01

ANSI 63.10:2013 – clause 13

KDB 412172 D01 Determining ERP and EIRP v01r01

3.3 Test Setup Diagram @ Fully Anechoic Chamber (Dimension: 12m(L)*7m(W)*7m(H))

The EIRP Pattern measurement is using the conical circle cut test system (refer to Figure 1). The EUT is positioned on center of turntable, for Free Space only in fully anechoic chamber. Data (channel power level) is recorded using the spectrum analyzer for both theta and phi polarizations at each position.

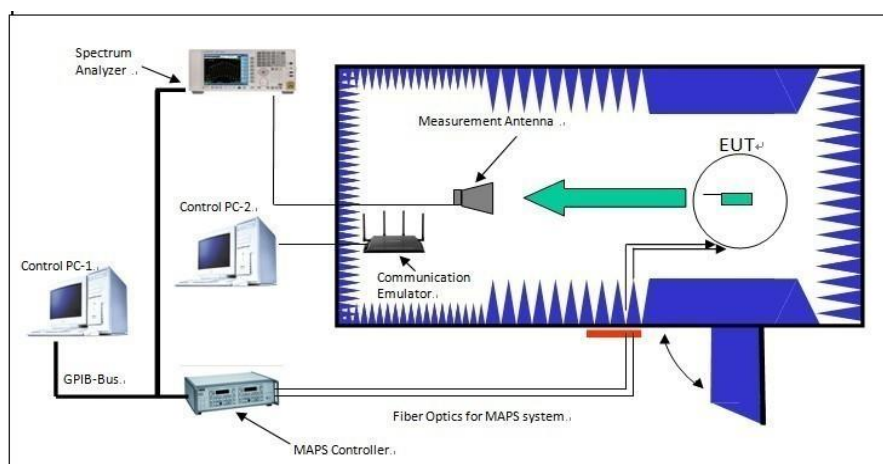


Figure 1. Conical circle cut test system.

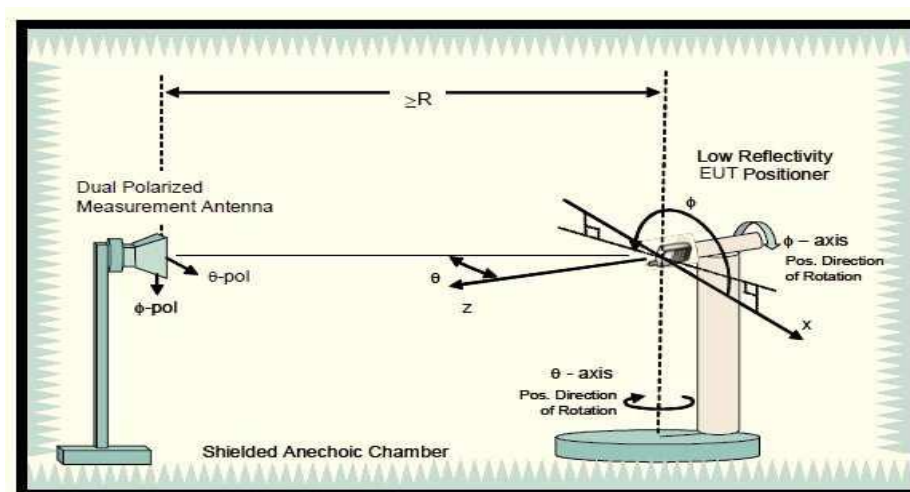


Figure 2. Configuration of Conical circle cut test system.

3.4 Test Setup Diagram for EUT

Please refer to report BBQZ-WTW-P22110099_Tsup Page 7.

3.5 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
PXA Signal Analyzer KEYSIGHT	N9030B	MY57140488	Mar. 06, 2023	Mar. 05, 2024
BILOG Antenna SCHWARZBECK	VULB 9168	9168-158	Oct. 25, 2022	Oct. 24, 2023
HORN Antenna ETS	3117	00034128	Nov. 13, 2022	Nov. 12, 2023
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Nov. 13, 2022	Nov. 12, 2023
Preamplifier Agilent	8449B	3008A01963	Jul. 09, 2022	Jul. 08, 2023
Preamplifier Agilent	8447D	2944A10627	Jul. 09, 2022	Jul. 08, 2023
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-RF1-03 (223650/4)	Jul. 09, 2022	Jul. 08, 2023
RF signal cable WOKEN	8D-FB	Cable-RF1-01	Jul. 09, 2022	Jul. 08, 2023
RF signal cable INFINET	CA3501-3501- G.90 (3m) & CA3501-3501- F.90 (2m)	INF090 (3m)*2 & TCF427S (2m)*1	Jul. 09, 2022	Jul. 08, 2023
Software ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower Max-Full	MFA-440H	9707	NA	NA
Turn Table ADT	NA	SN40303	NA	NA
Controller Max-Full	MF-7802	MF7802093	NA	NA
Temperature & Humidity chamber TERCHY	MHU-225AU	920842	Jun. 21, 2022	Jun. 20, 2023
Splitters/Combiners Mini-Circuits	ZN2PD-9G	NA	Jun. 09, 2022	Jun. 08, 2023
26GHz ~ 40GHz Amplifier EMC	EMC184045B	980175	Sep. 03, 2022	Sep. 02, 2023
Absorber 30 MHz ~ 40GHz	TDK / IP-045C	NA	NA	NA

TYPICAL ABSORPTION CHARACTERISTICS (VERTICAL INCIDENCE)

Unit: dB

Material name	30MHz	50MHz	100MHz	500MHz	1GHz	5GHz	18GHz	40GHz
IP-045C	18	18	15	20	20	30	40	40

- Note:
1. The test was performed in HwaYa RF Chamber 1.
 2. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1 GHz if tested.

3.6 Test Procedure

- a. Connect EUT to Spectrum Analyzer and record the power setting of EUT and the measured conducted power / conducted power spectral density.
- b. Fasten EUT on the Positioner on center of turntable, for Free Space only.
- c. Configuration EUT transmitting packages (SW: iperf) to the communication emulator in Beamforming mode. Please refer to figure 2 for detail configuration.
- d. Make sure the transmit signal stable and duty cycle greater than or equal to 98% at the maximum RF power level.
- e. Setup the channel power function and power spectral density function by spectrum analyzer.
- f. Read the channel power level and power spectral density level on spectrum analyzer and record in following positions.
 1. The EUT is then stepped between -90 to 90 degrees along the theta axis in 15-degree increments. At each theta position, the phi axis is stepped from 0 to 360 degrees or from 360 to 0 degrees in 15-degree increments.
 2. Data (channel power level / power spectral density level) is recorded using the spectrum analyzer for both theta and phi polarizations at each position.
 3. Set Phi and Theta Positioners to Boresight Phi and Theta angular position of maximum channel power level / power spectral density level.
 4. Fix the Phi angular in Step f.3, the EUT is then stepped between 0 to 360 degrees along the theta axis in 1-degree increments for E-Plane and H-Plane.
 5. Data (channel power level / power spectral density level) is recorded using the spectrum analyzer for both E-Plane and H-Plane at each position, then calculate and indicate the 3-dB beamwidth.
 6. When the 3-dB beamwidth in Step f.5 is less than 15 degree, repeat Step f.1 and Step f.2 with the 1/5/10-degree increments which is less than and close to 3-dB beamwidth.
- g. According to section 2.3 of KDB 412172 D01 Determining ERP and EIRP v01r01, 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.

$$EIRP = P_{SigGen} + G_T - L_C$$

where:

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

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

- h. Directional Antenna Gain (dBi) = Max EIRP (dBm) – Total Conducted Power (dBm)

3.7 Test Results (Measurement Quantity) of EIRP Measurement & Directional Gain Calculation

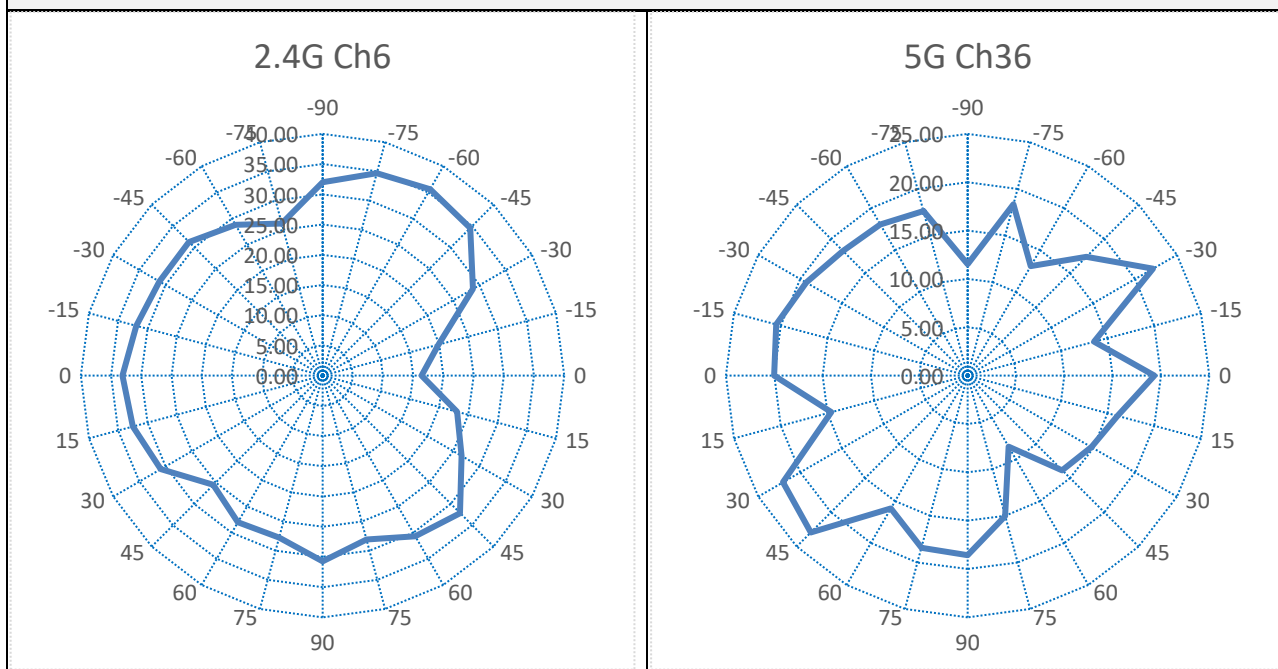
Tested By	Jeff Chen
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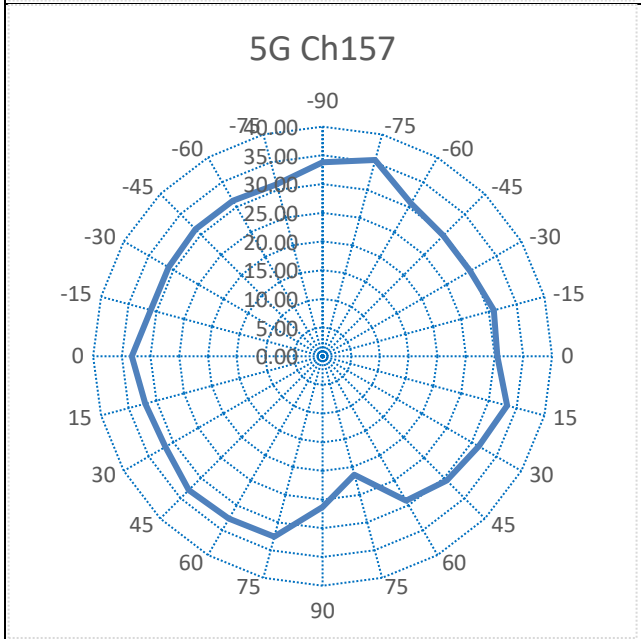
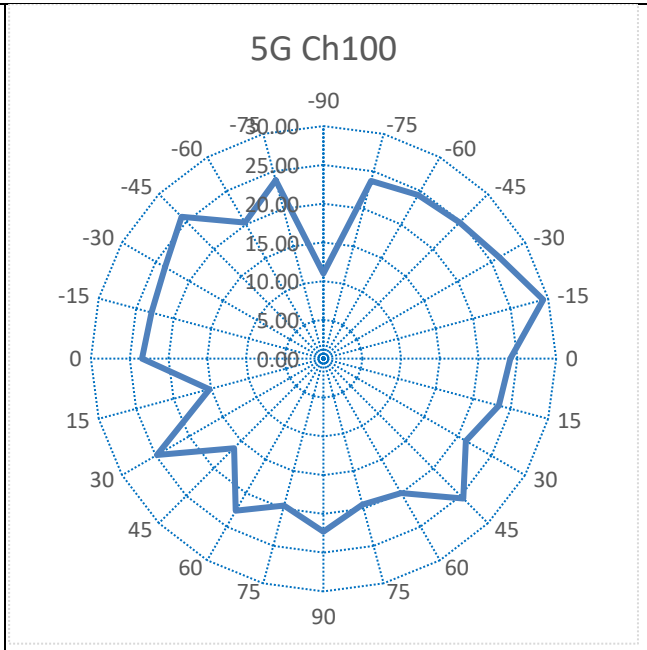
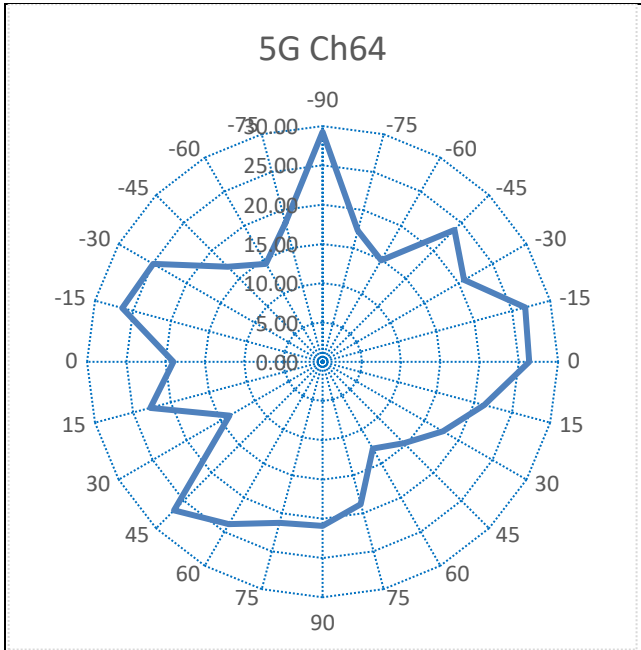
EIRP (802.11be EHT20 of Beamforming Mode / Nss=1)

Mode	Channel	Frequency (MHz)	Polarization	Θ (degree)	Φ (degree)	Raw Value (dBm)	C.F. (dB)	Max EIRP (dBm)
BF (Nss=1)	6	2437	Ver.	-60	165	-8.85	44.46	35.61
	36	5180	Ver.	45	345	-26.13	49.05	22.92
	64	5320	Ver.	-90	150	-20.07	49.33	29.26
	100	5500	Ver.	-15	0	-20.27	49.60	29.33
	157	5785	Ver.	-75	30	-14.63	50.03	35.40

Note: Max EIRP (dBm) = Raw Value(dBm) + Correction Factor(dB)
 Correction Factor(dB) = Antenna Gain(dBi) + Cable Loss(dB) + Free Space Loss(dB)
 Peak EIRP measurement values please refer to test plots in Section 3.8.

Worst Degree Test Plot





Directional Gain Calculation (802.11be EHT20 of Beamforming Mode / Nss=1)

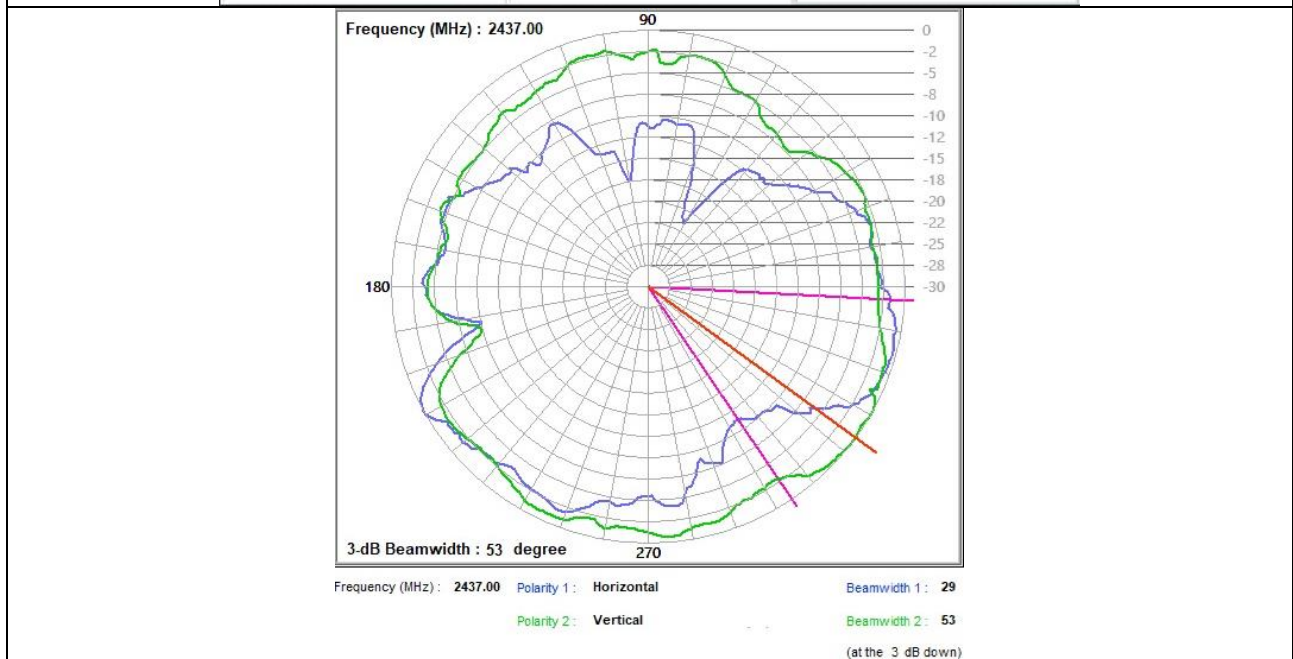
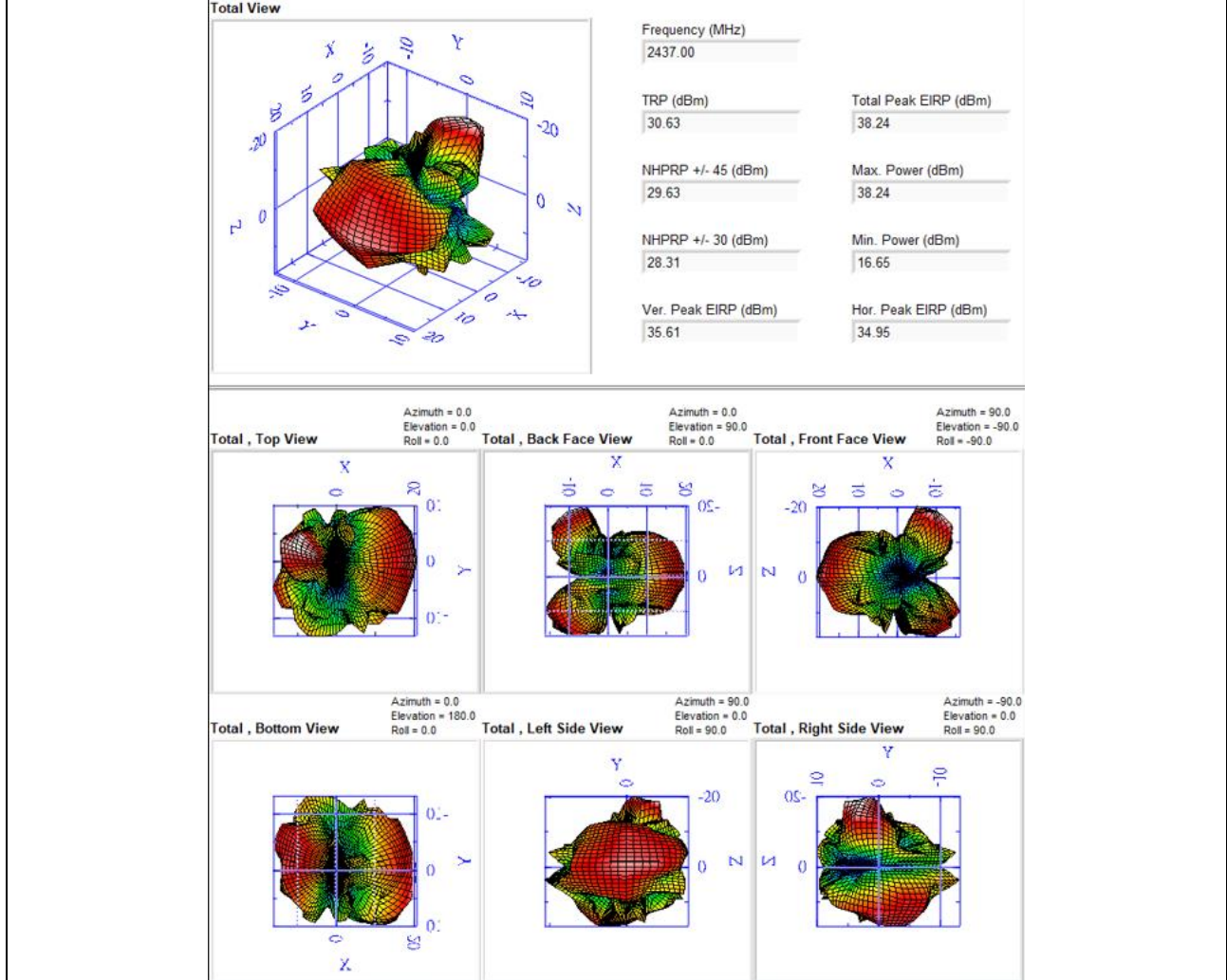
Mode	Channel	Frequency (MHz)	Max EIRP (dBm)	Total Conducted Power (dBm)	Directional Ant. Gain (dBi)
BF (Nss=1)	6	2437	35.61	29.55	6.06
	36	5180	22.92	16.93	5.99
	64	5320	29.26	23.21	6.05
	100	5500	29.33	23.30	6.03
	157	5785	35.40	29.34	6.06

Note: Directional Antenna Gain (dBi) = Max EIRP – Total Conducted Power

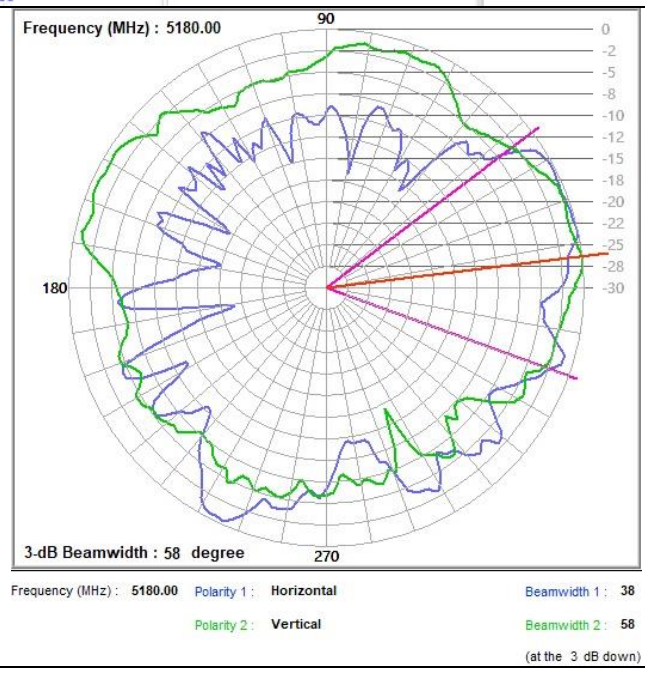
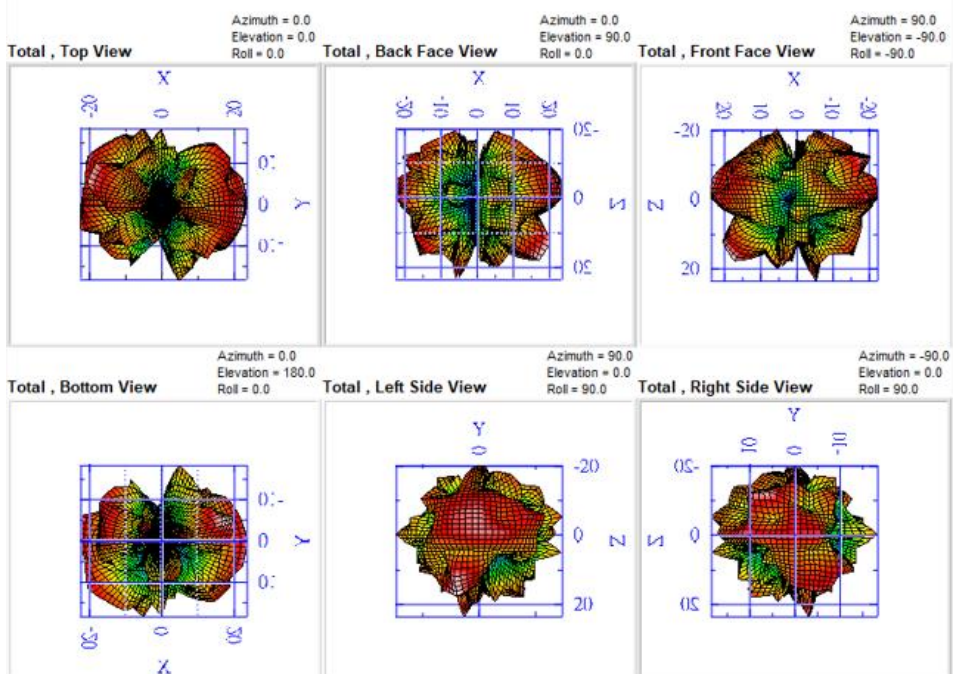
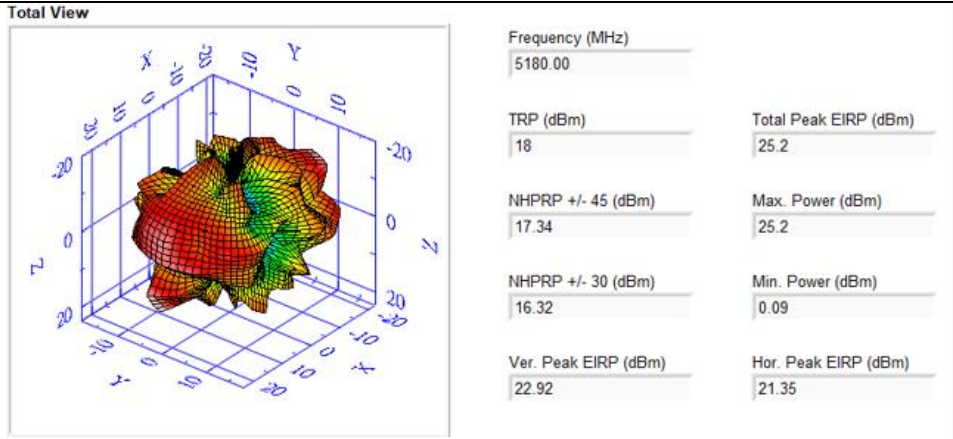
3.8 3D EIRP Pattern and 3-dB Beam-width Test Plots

2.4GHz and 5GHz bands

2.4GHz_EHT20_CH6_BF On Nss1

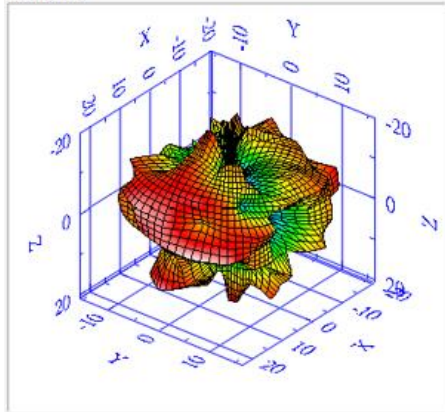


802.11be_EHT20_CH36_BF On_Nss1



802.11be_EHT20_CH64_BF On_Nss1

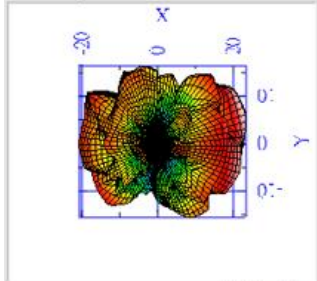
Total View



Frequency (MHz)	5320.00
TRP (dBm)	24.47
NHPRP +/- 45 (dBm)	23.75
NHPRP +/- 30 (dBm)	22.77
Ver. Peak EIRP (dBm)	29.26
Total Peak EIRP (dBm)	31.94
Max. Power (dBm)	31.94
Min. Power (dBm)	7.71
Hor. Peak EIRP (dBm)	28.62

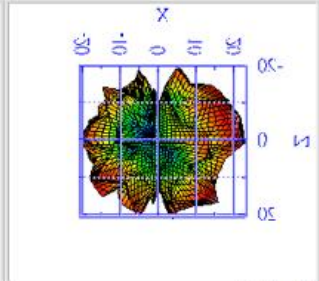
Total , Top View

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Roll = 0.0



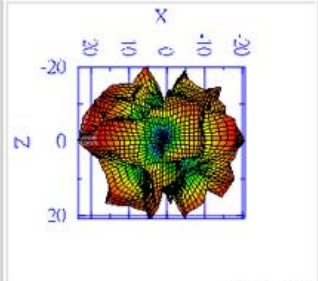
Total , Back Face View

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Elevation = 90.0
Roll = 0.0



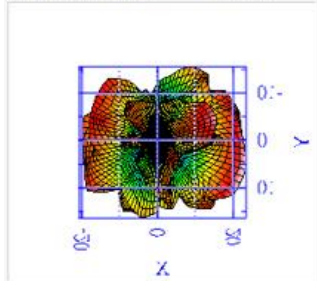
Total , Front Face View

Azimuth = 90.0
Elevation = -90.0
Roll = -90.0



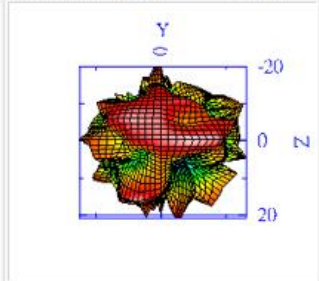
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Roll = 0.0



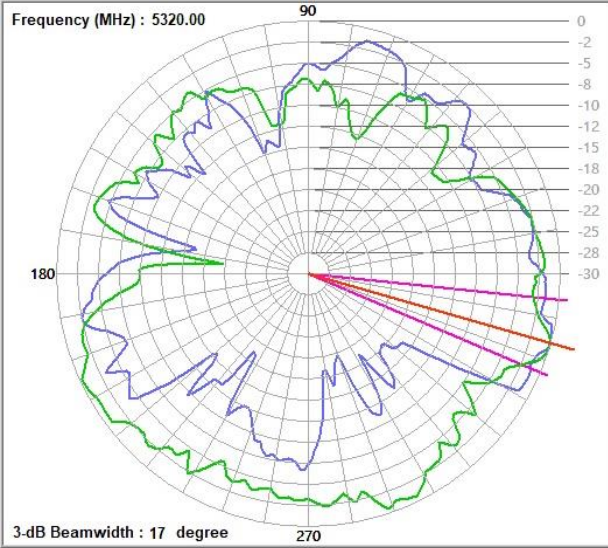
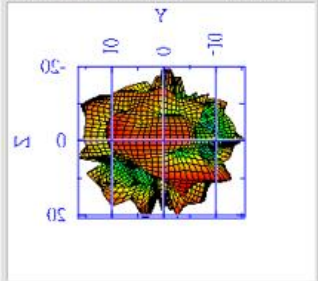
Total , Left Side View

Azimuth = 90.0
Elevation = 0.0
Roll = 90.0



Total , Right Side View

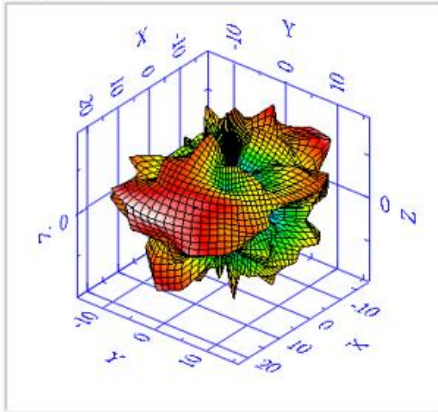
Azimuth = -90.0
Elevation = 0.0
Roll = 90.0



Frequency (MHz) : 5320.00 Polarity 1 : Horizontal Beamwidth 1 : 33
 Polarity 2 : Vertical Beamwidth 2 : 17
 (at the 3 dB down)

802.11be_EHT20_CH100_BF On_Nss1

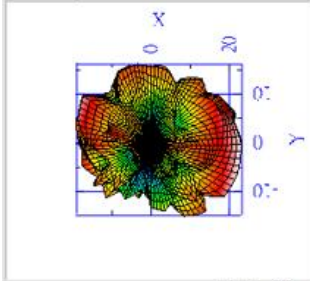
Total View



Frequency (MHz)	5500.00
TRP (dBm)	23.64
NHPRP +/- 45 (dBm)	22.94
NHPRP +/- 30 (dBm)	22
Ver. Peak EIRP (dBm)	29.33
Total Peak EIRP (dBm)	31.57
Max. Power (dBm)	31.57
Min. Power (dBm)	7.51
Hor. Peak EIRP (dBm)	27.7

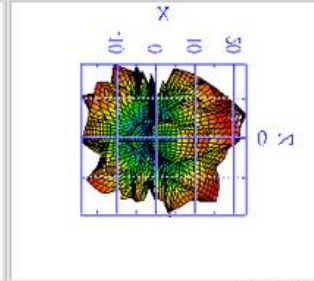
Total , Top View

Azimuth = 0.0
Elevation = 0.0
Roll = 0.0



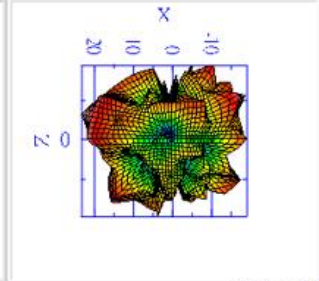
Total , Back Face View

Azimuth = 0.0
Elevation = 90.0
Roll = 0.0



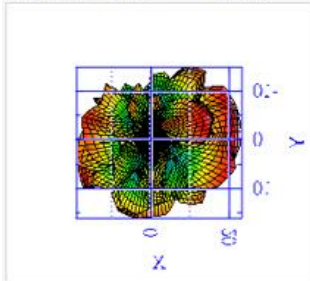
Total , Front Face View

Azimuth = 90.0
Elevation = -90.0
Roll = -90.0



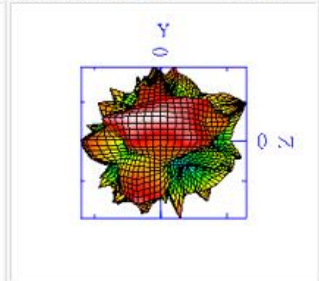
Total , Bottom View

Azimuth = 0.0
Elevation = 180.0
Roll = 0.0



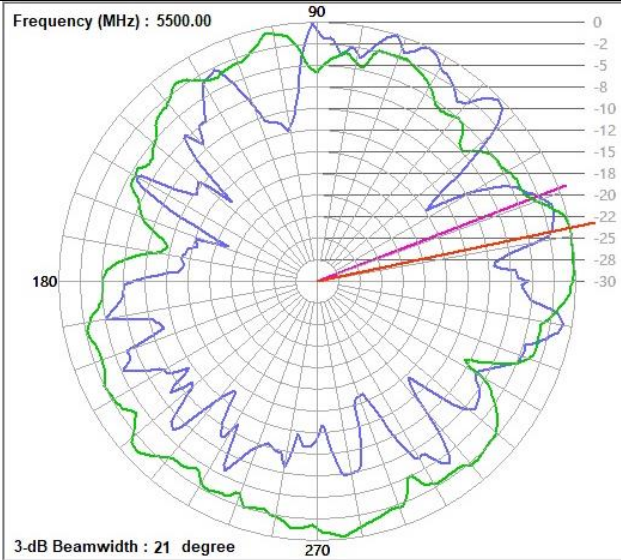
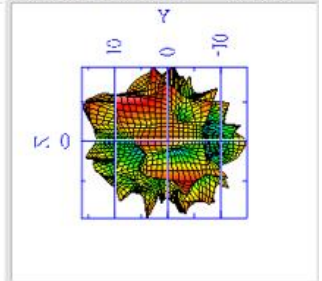
Total , Left Side View

Azimuth = 90.0
Elevation = 0.0
Roll = 90.0



Total , Right Side View

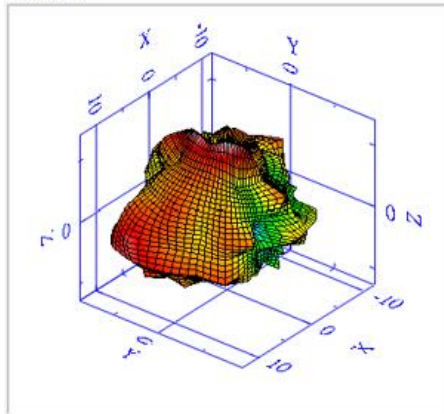
Azimuth = -90.0
Elevation = 0.0
Roll = 90.0



Frequency (MHz) : 5500.00 Polarity 1 : Horizontal Beamwidth 1 : 24
 Polarity 2 : Vertical Beamwidth 2 : 21
 (at the 3 dB down)

802.11be_EHT20_CH157_BF On_Nss1

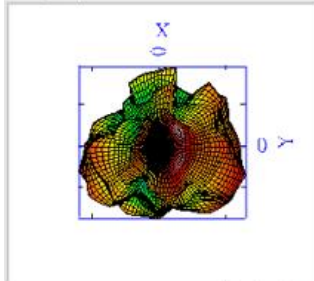
Total View



Frequency (MHz)	5785.00
TRP (dBm)	31.45
NHPRP +/- 45 (dBm)	30.25
NHPRP +/- 30 (dBm)	29.05
Ver. Peak EIRP (dBm)	35.4
Total Peak EIRP (dBm)	36.42
Max. Power (dBm)	36.42
Min. Power (dBm)	21.69
Hor. Peak EIRP (dBm)	34

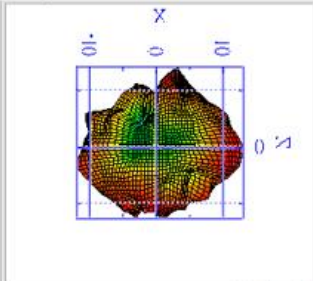
Total , Top View

Azimuth = 0.0
Elevation = 0.0
Roll = 0.0



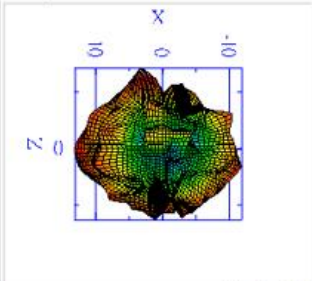
Total , Back Face View

Azimuth = 0.0
Elevation = 90.0
Roll = 0.0



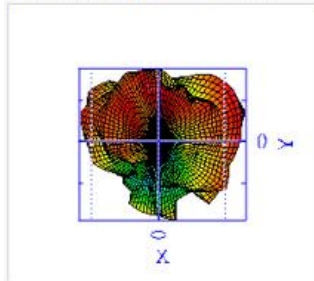
Total , Front Face View

Azimuth = 90.0
Elevation = -90.0
Roll = -90.0



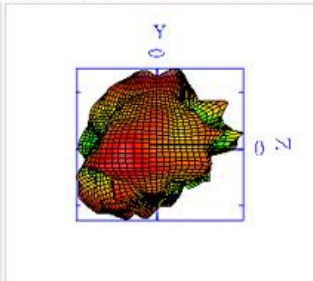
Total , Bottom View

Azimuth = 0.0
Elevation = 180.0
Roll = 0.0



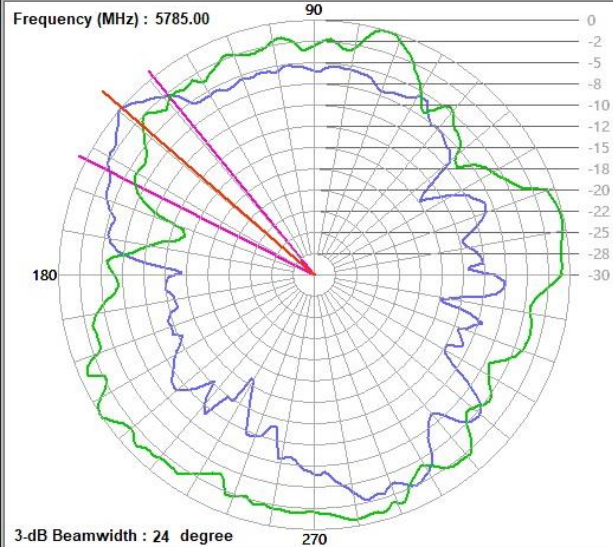
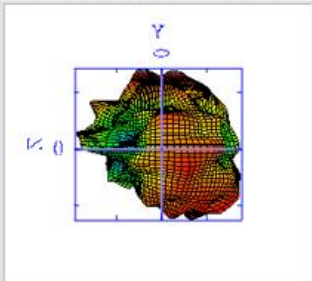
Total , Left Side View

Azimuth = 90.0
Elevation = 0.0
Roll = 90.0



Total , Right Side View

Azimuth = -90.0
Elevation = 0.0
Roll = 90.0



Frequency (MHz) : 5785.00 Polarity 1 : Horizontal Beamwidth 1 : 24
 Polarity 2 : Vertical Beamwidth 2 : 41
 (at the 3 dB down)

4 Appendix - Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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