

ICON25 WIFI



Antenna
information

Supplier data



Customer Part Number	
Description	WIFI-1- and WIFI-2-Radiator
Molex Part Number	64181307 and 64181308
Company	Molex CVS Hildesheim GmbH
Address	Daimlerring 31, D-31135 Hildesheim
Production site (address, country)	Molex CVS Shanghai, China

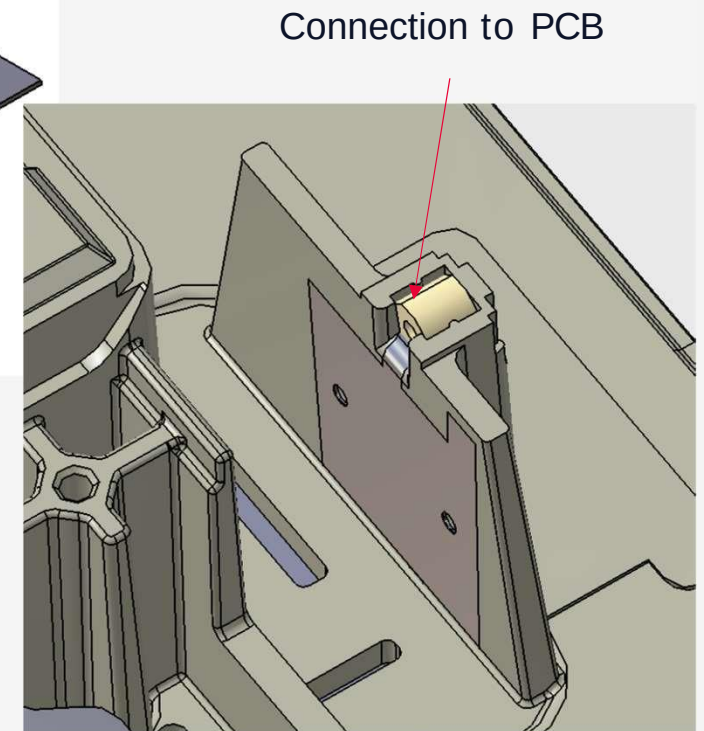
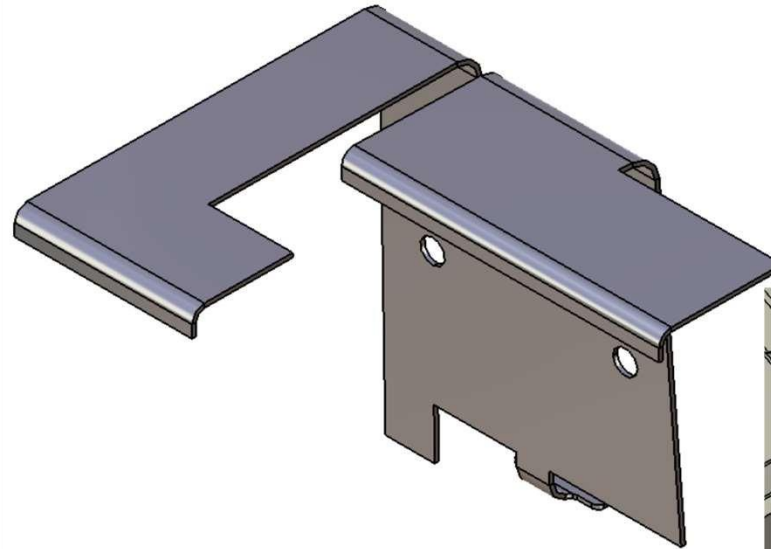
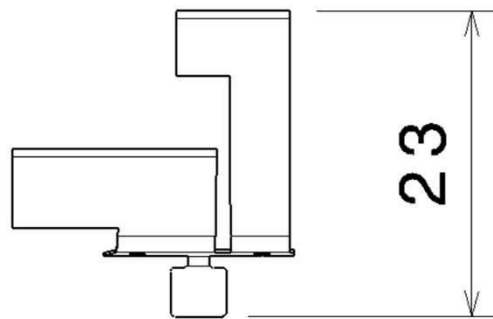
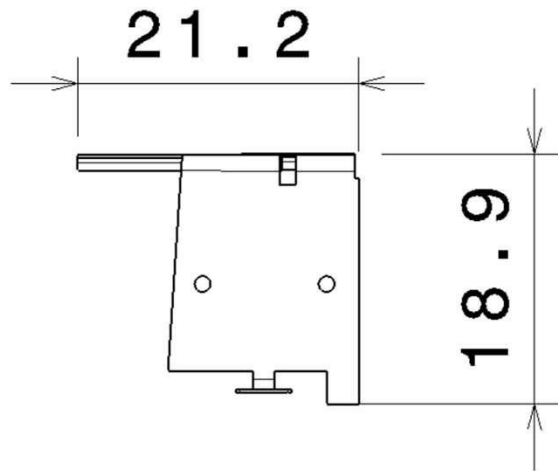
Mechanic



Design, geometry &
overview of components

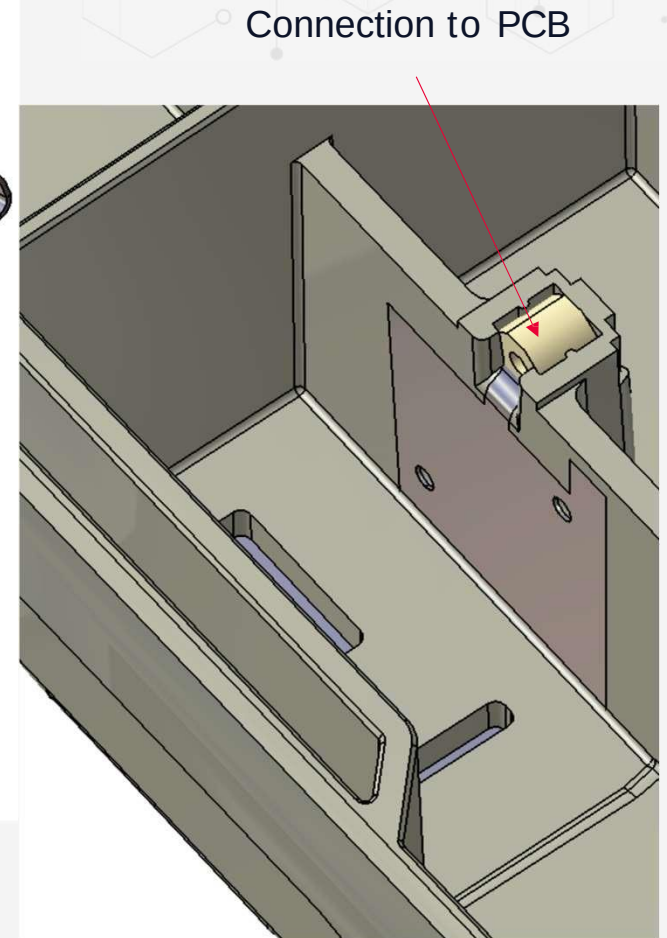
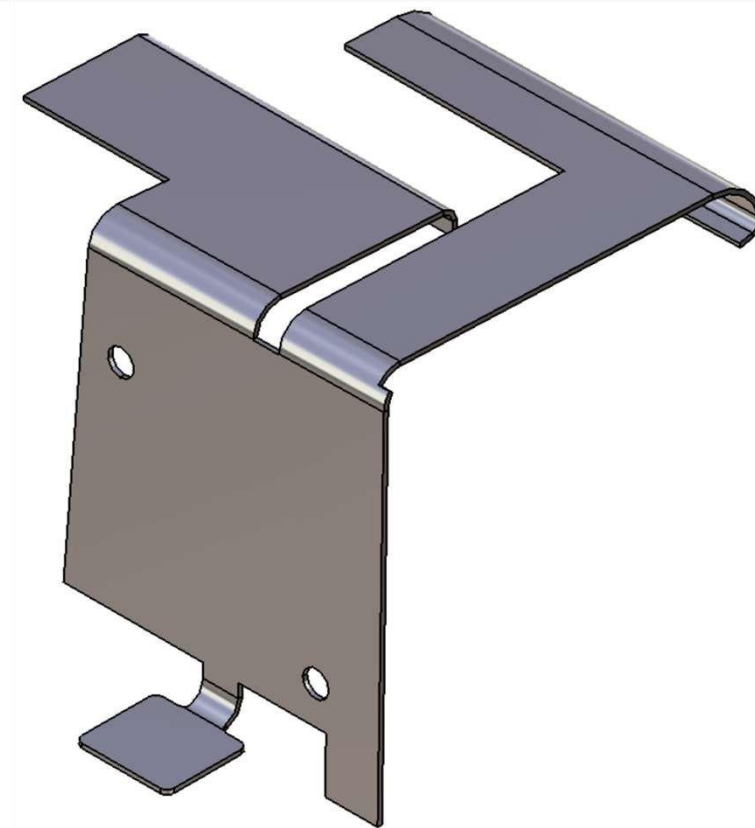
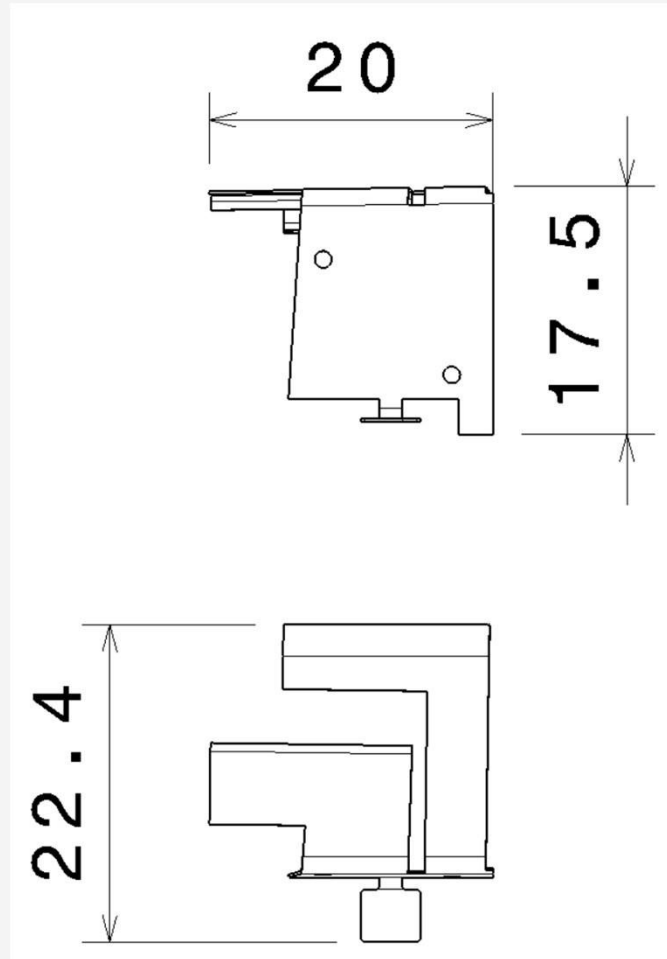
Mechanical data WIFI 1

6 41 81 307

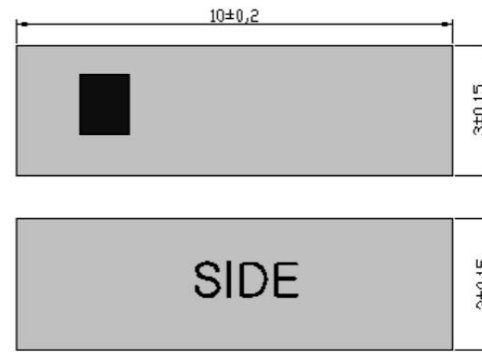
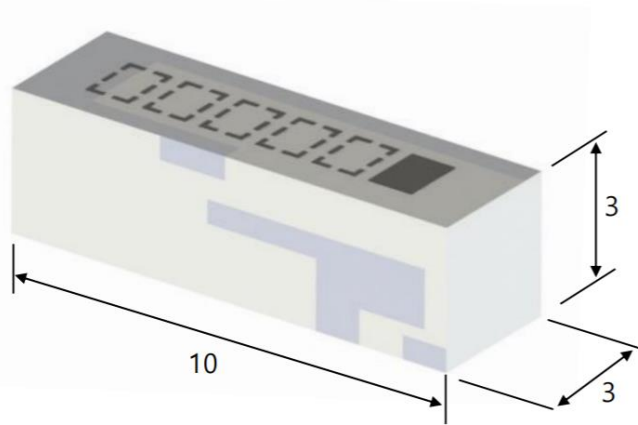


Mechanical data WIFI 2

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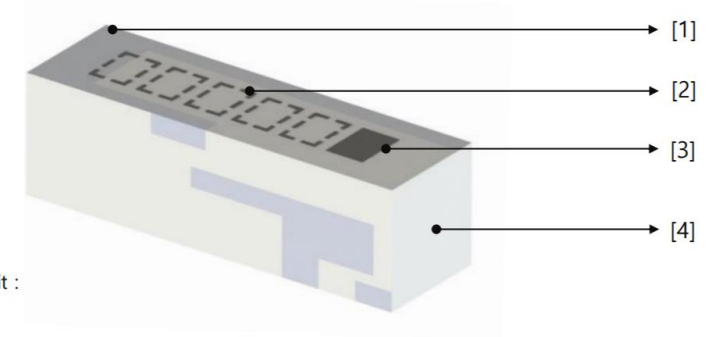


Mechanical data WIFI 3



Antenna Top & Side

[unit :



No	Item	Specification
1	Antenna Type	Chip Type
2	Dimensions (LxWxH)	10x10x3 mm ³
3	Weight	Typ. 0.3g
4	Operating Temperature	-40 ~ 125 °C

No	Part	Function	Material
[1]	Electrode	Radiation pattern	Ag
[2]	Marking	Manufactured data	Ink
[3]	Marking	Feeding direction	Ink
[4]	Ceramic body	Antenna body	ceramic

Antenna measurements



Passive parameter

WiFi – Peak Gain

1. Wi-Fi/BT #1 Antenna

- Antenna manufacturer : Molex CVS Hildesheim GmbH
- Antenna manufacturer address : Daimlerring 31, 31135 Hildesheim, Germany
- Antenna name : ICON25
- Antenna type : Pattern Antenna

H - peak values

f [MHz]	max [dBi]
2430	2.469062
5180	5.88773
5320	4.523051
5600	3.257444
5820	4.42291

V - peak values

f [MHz]	max [dBi]
2430	4.531628
5180	4.524232
5320	4.46744
5600	4.791225
5820	3.785374

L(H+V) - peak values

f [MHz]	max [dBi]
2430	5.06361
5180	6.45534
5320	5.73162
5600	6.86416
5820	5.67482

H - peak values

f [MHz]	max [dBi]
6285	2.689694
6485	0.362335
6565	1.000128
6875	-2.76008

V - peak values

f [MHz]	max [dBi]
6285	0.540293
6485	-1.27024
6565	-2.66291
6875	-7.32624

L(H+V) - peak values

f [MHz]	max [dBi]
6285	2.8648131
6485	0.6564073
6565	1.1074535
6875	-2.707759

WiFi – Peak Gain

2. Wi-Fi #2 Antenna

- Antenna manufacturer : Molex CVS Hildesheim GmbH
- Antenna manufacturer address : Daimlerring 31, 31135 Hildesheim, Germany
- Antenna name : ICON25
- Antenna type : Pattern Antenna

H - peak values

f [MHz]	max [dBi]
2460	3.296327
5180	3.154525
5240	2.722709
5640	2.601481
5780	2.019163

V - peak values

f [MHz]	max [dBi]
2460	1.810037
5180	4.397867
5240	3.527926
5640	4.602779
5780	3.8772

L(H+V) - peak values

f [MHz]	max [dBi]
2460	4.95651
5180	6.42733
5240	5.84774
5640	5.21089
5780	4.2852

H - peak values

f [MHz]	max [dBi]
6285	-0.59493
6505	-1.77857
6525	-1.87997
6945	-2.27843

V - peak values

f [MHz]	max [dBi]
6285	-4.10036
6505	-3.47099
6525	-3.65776
6945	-2.55363

L(H+V) - peak values

f [MHz]	max [dBi]
6285	0.766633
6505	0.3064111
6525	0.1167657
6945	-0.957157

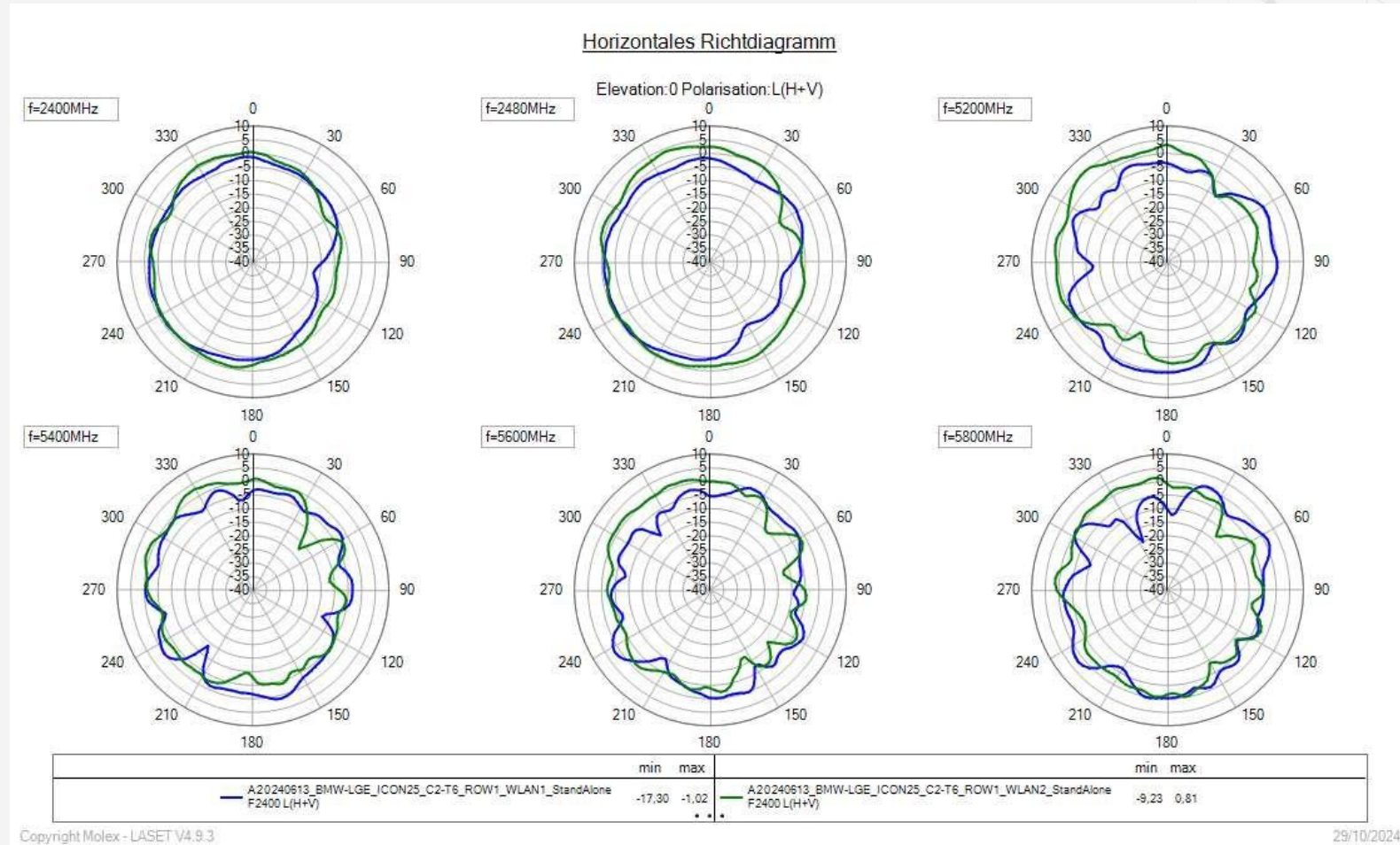
WiFi – Peak Gain

3. Wi-Fi #3 Antenna

- Antenna manufacturer : AMOTECH
- Antenna manufacturer address : 380, Namdongseo-ro, Namdong-gu, Incheon, Republic of Ko
- Antenna name : ICON25
- Antenna type : Chip Antenna

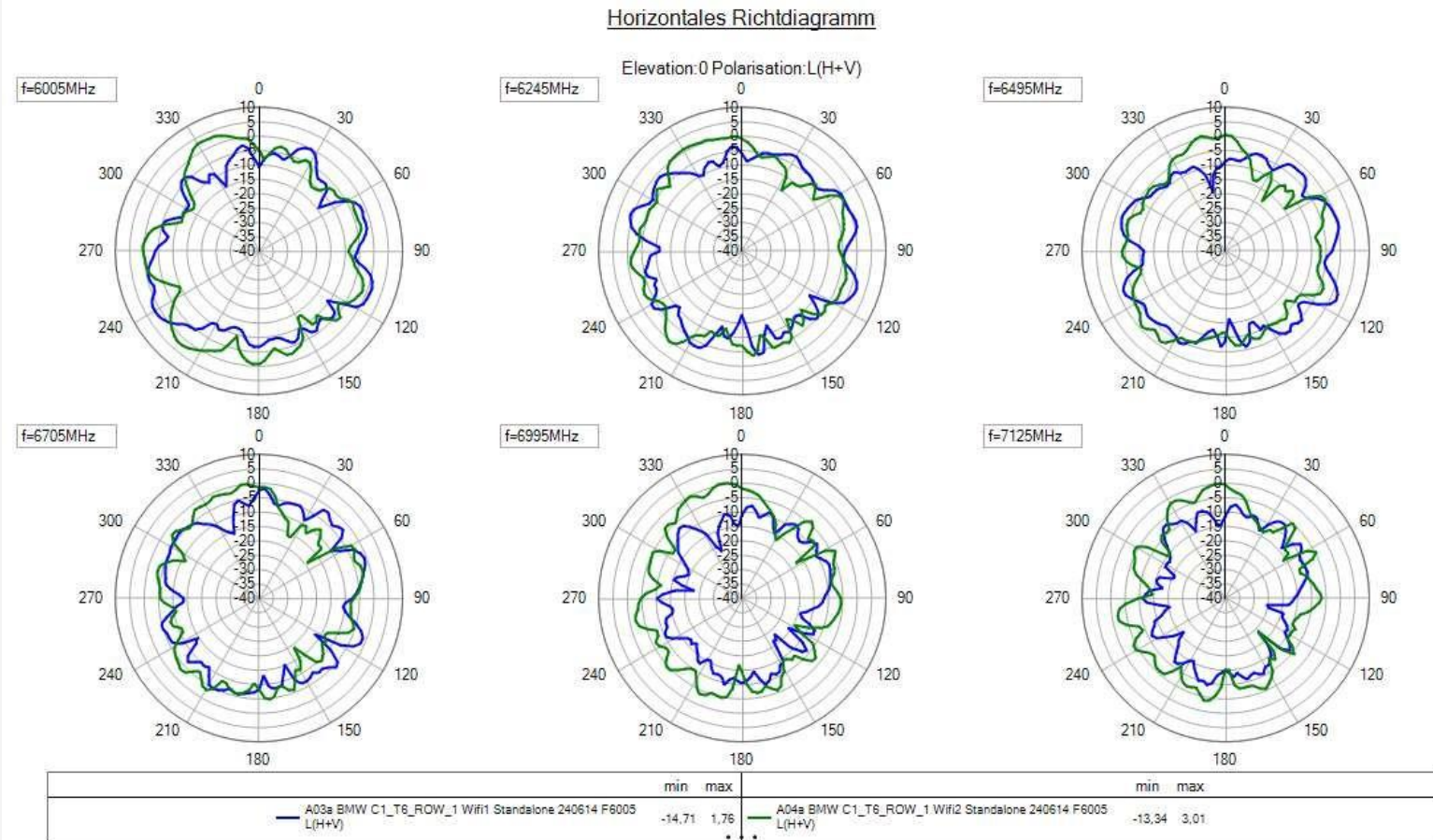
Peak values	
f [MHz]	max [dBi]
2400	0.4
2442	1.4
2485	1.1
5150	2.2
5500	1.9
5850	2.4
5925	2.4
6525	2.5
7125	3

WiFi – Radiation Pattern



— WiFi1
— WiFi2

WiFi – Radiation Pattern – 7GHz



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29/10/2024

— WiFi1
— WiFi2