

Annex 1: Measuring Diagrams to
TEST REPORT
No.: 19-1-0066701T06a

According to:
FCC Regulations Title 47, Subpart 18
§18.305

for

Continental Automotive GmbH

D-WMI2020A
Wireless Power Charger

FCC-ID: KR5DWMI2020A



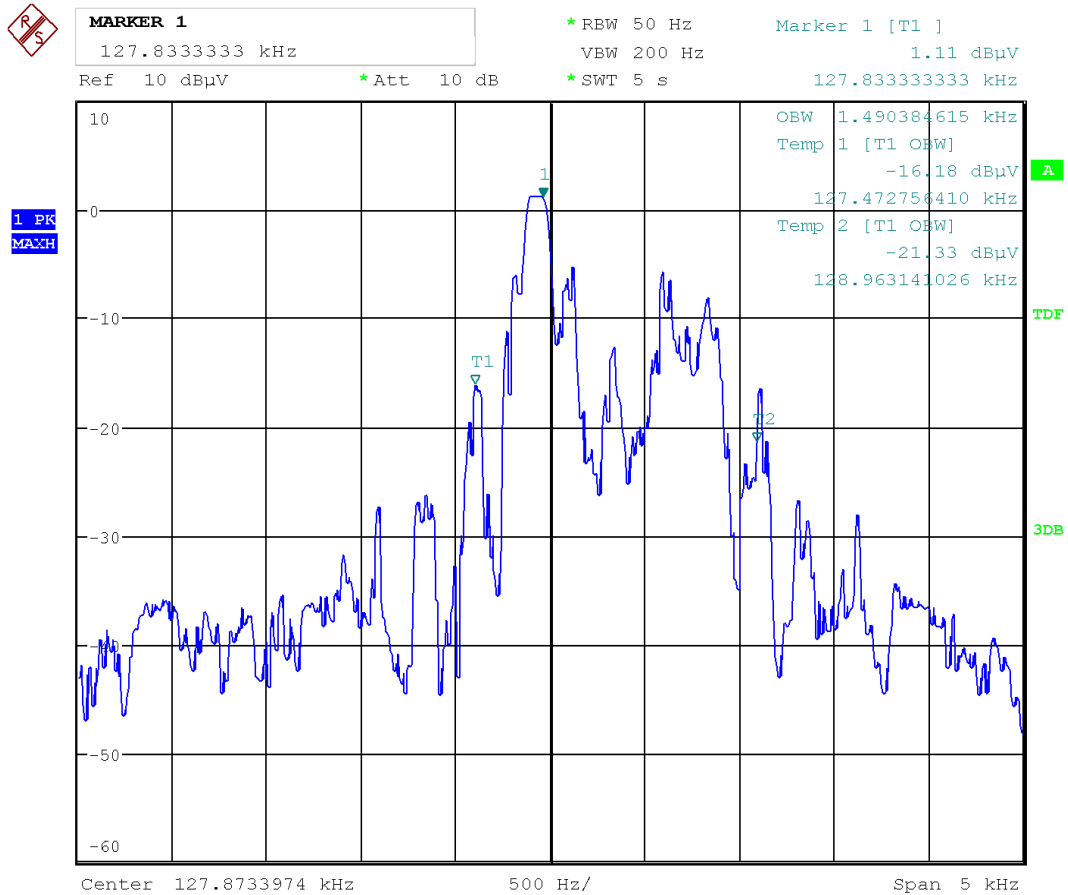
Laboratory Accreditation and Listings
  <p>Deutsche Akkreditierungsstelle D-PL-12047-01-01 D-PL-12047-01-03 D-PL-12047-01-04</p> <p>Accredited EMC-Test Laboratory</p>
accredited according to DIN EN ISO/IEC 17025
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1. 99% Occupied Bandwidth (OBW)

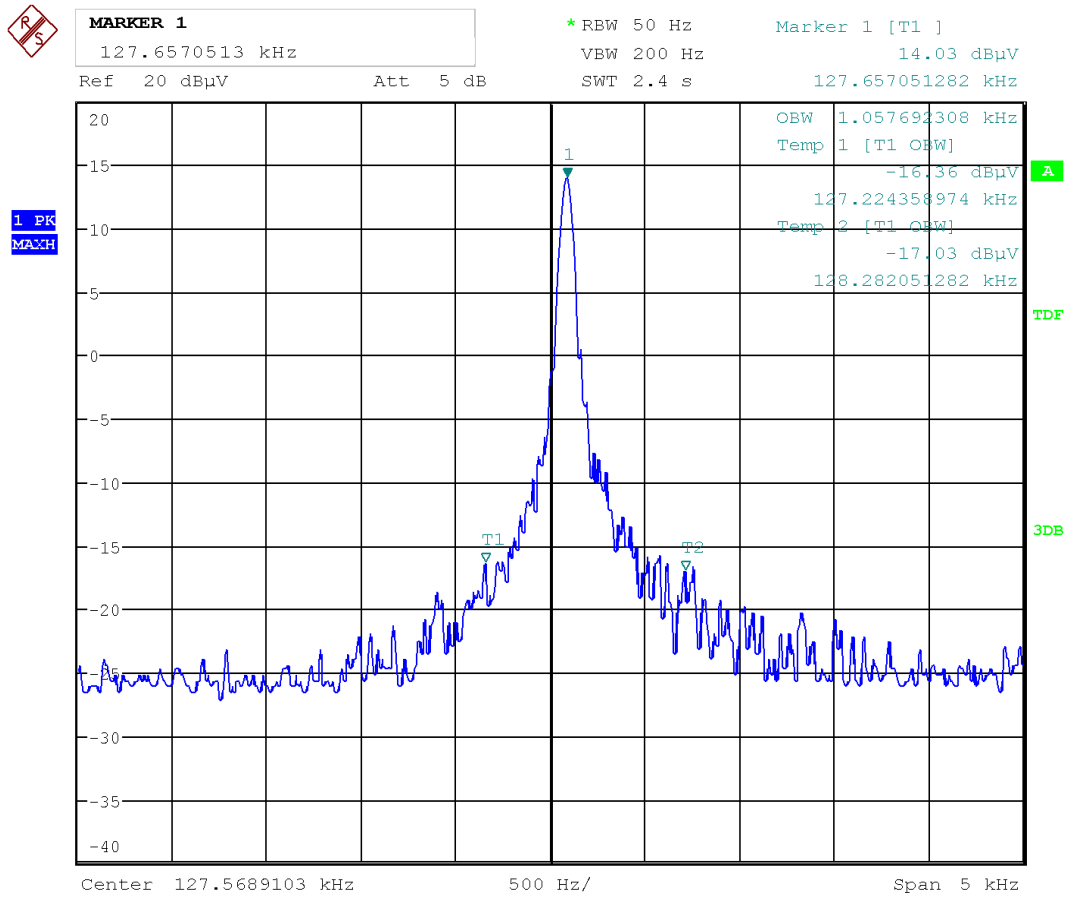
1.1. WPC charging mode(TX/RX)_op 3/4 + setup 03, charging nominal load 15W



Date: 21.JUN.2019 22:51:19

Diagram 1: OBW 99% Sample 19 (EUT A, High Version)

1.2. WPC ping mode(TX)_op 01 + setup 04



Date: 24.JUN.2019 08:50:28

Diagram 2: OBW 99% Sample 20 (EUT B, High Version)

2. H-Field requirements

2.1. Carrier-field strength WPC charging mode(TX/RX)_op 3/4 + setup 01

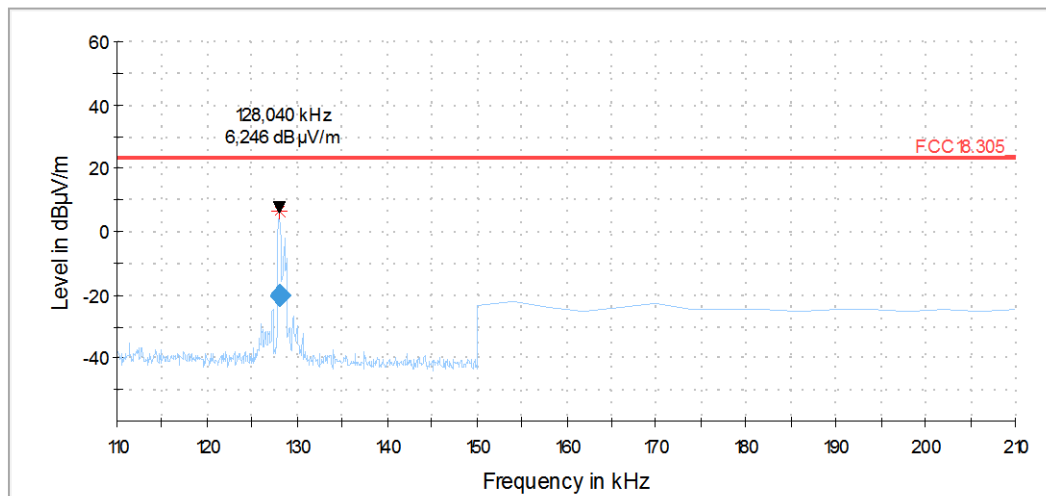


Diagram 2.01a Carrier field strength (WPC charging mode) _standing position

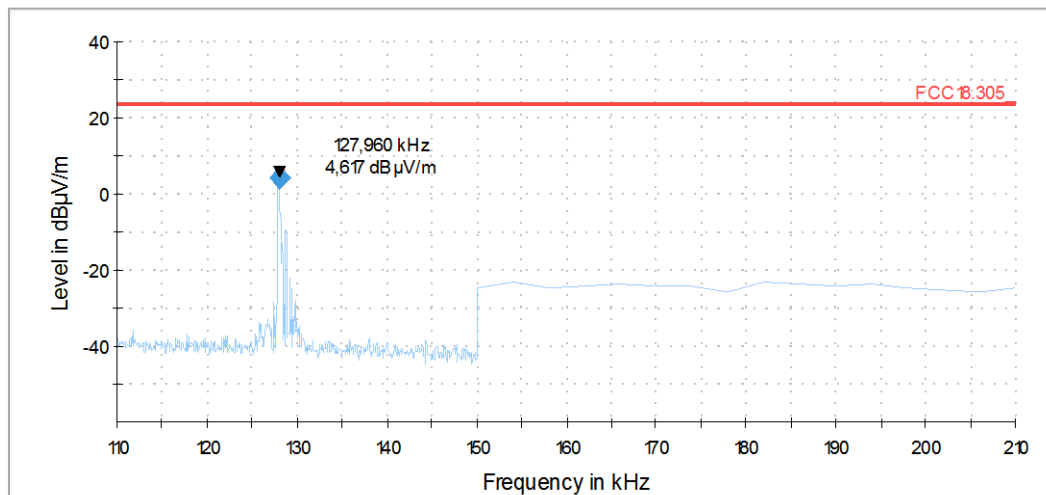
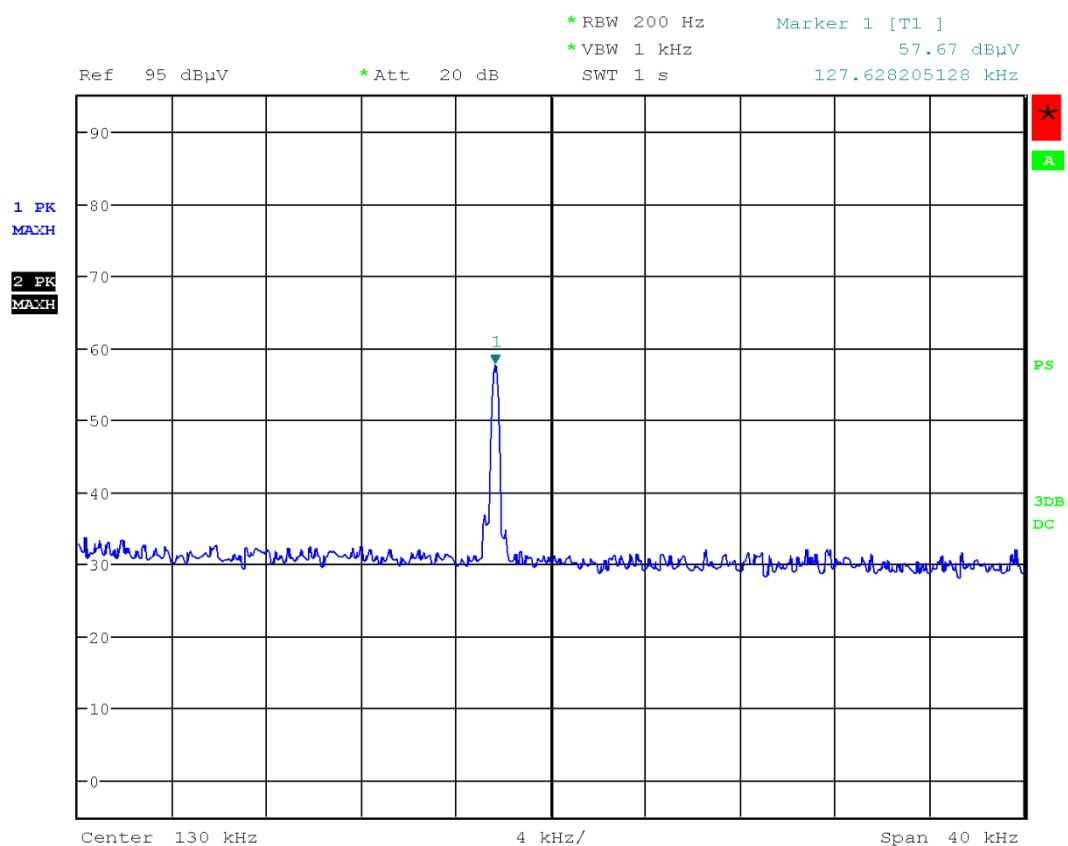


Diagram 2.01b Carrier field strength (WPC charging mode) _laying position

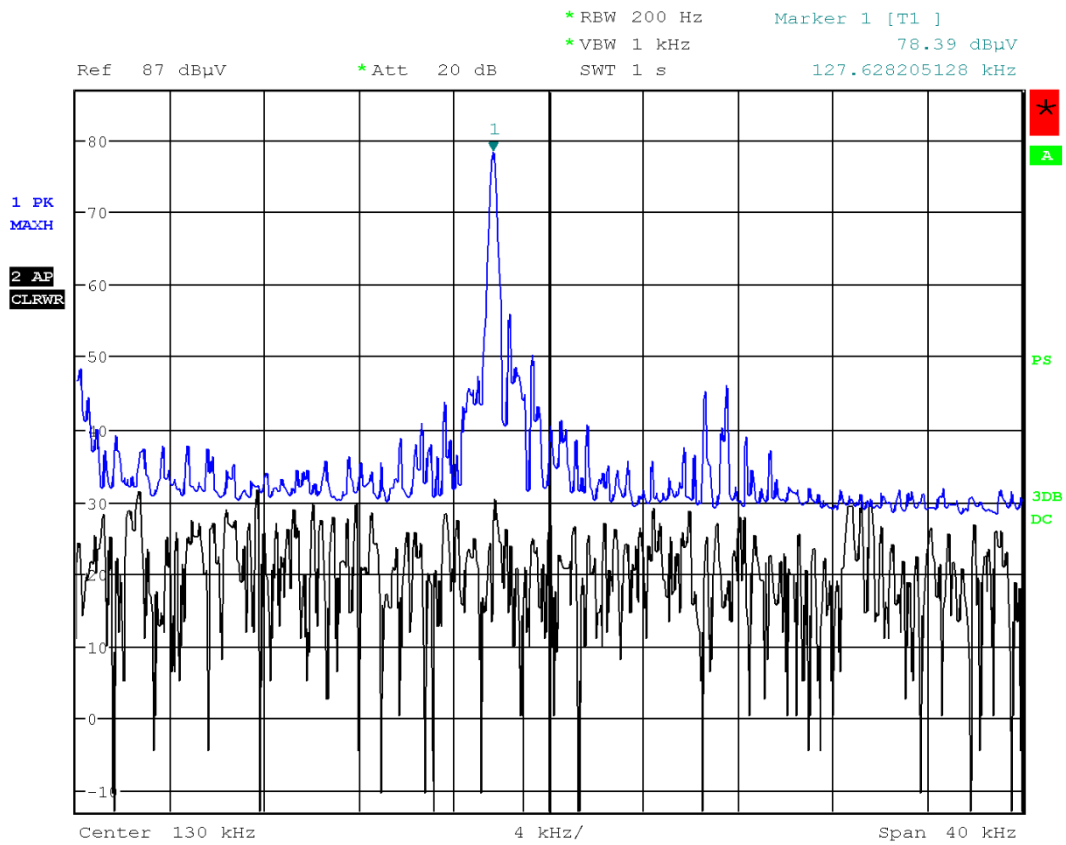


Date: 15.MAY.2019 17:20:09

Diagram no. 2.03b/EUT laying / measurement antenna vertical

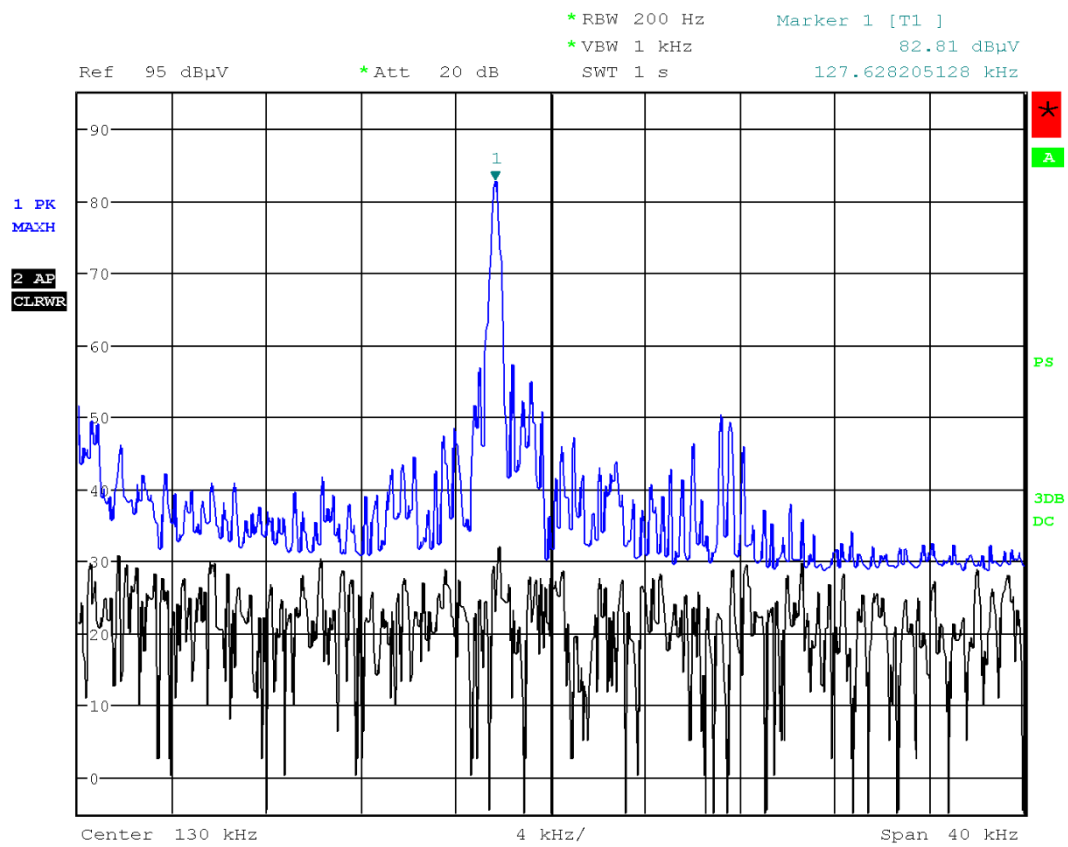
Raw-Value@3m: 57.67 dBμV/m

Calculated Peak value at 300m: 57.67 dBμV/m- correction factor (= - 68.6 dB) = **-10.93 dBμV/m**



Date: 15.MAY.2019 17:05:24

Diagram no. 2.03c/EUT standing/ measurement antenna horizontal, op 1 + setup 2
 Raw-Value@3m: 78.39 dBµV/m
 Calculated peak value at 300m: 78.39 dBµV/m- correction factor (-68.6 dB) = **9.79 dBµV/m**



Date: 15.MAY.2019 17:11:34

Diagram no. 2.03d/EUT standing/measurement antenna vertical
 Raw-Value@3m: 82.81 dBµV/m -> Max. Value:

Calculated peak value at 300m: 82.81 dBµV/m- correction factor (= - 68.6 dB) = **14.21 dBµV/m**

3. Transmitter spurious emissions below 30 MHz

3.1. Magnetic field emissions (TX/RX)_f<30 MHz, op 3/4 + setup 01

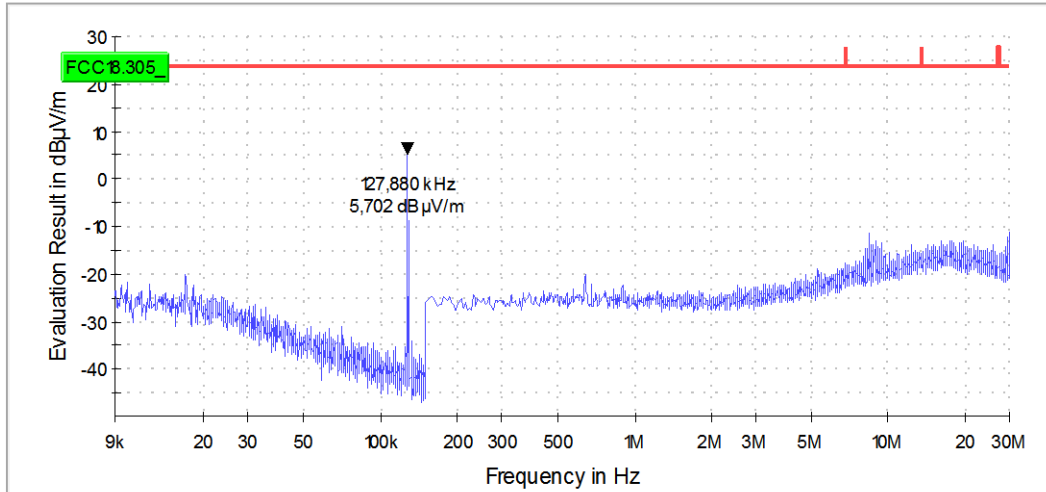


Diagram 2.07 WPC charging mode, EUT standing position

3.2. Magnetic field emissions (TX)_f<30 MHz, op 01 + setup 02

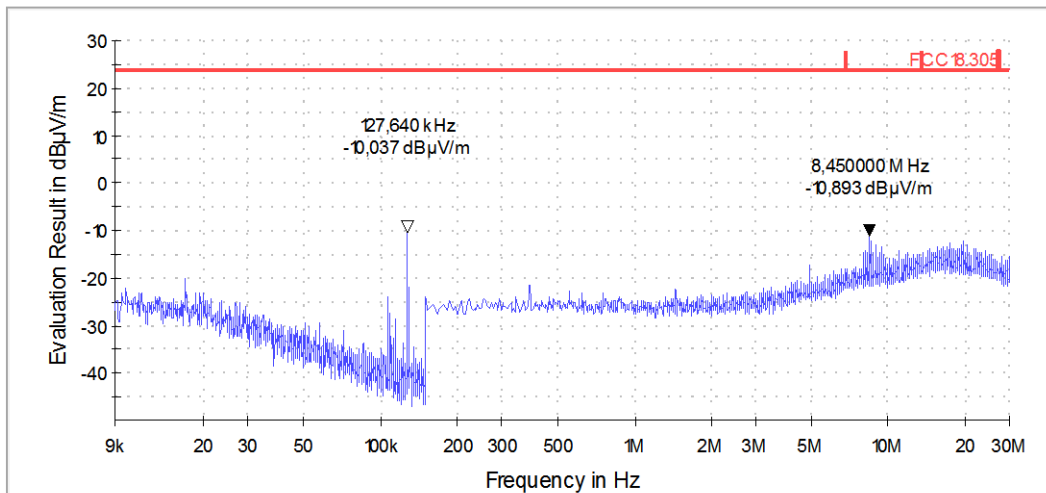


Diagram 2.02 Ping mode, EUT standing position

4. Transmitter spurious emissions below 30 MHz

4.1. Radiated emissions WPC charging mode(TX/RX) 30 MHz to 1 GHz, op 3/4 + setup 01

Full Spectrum

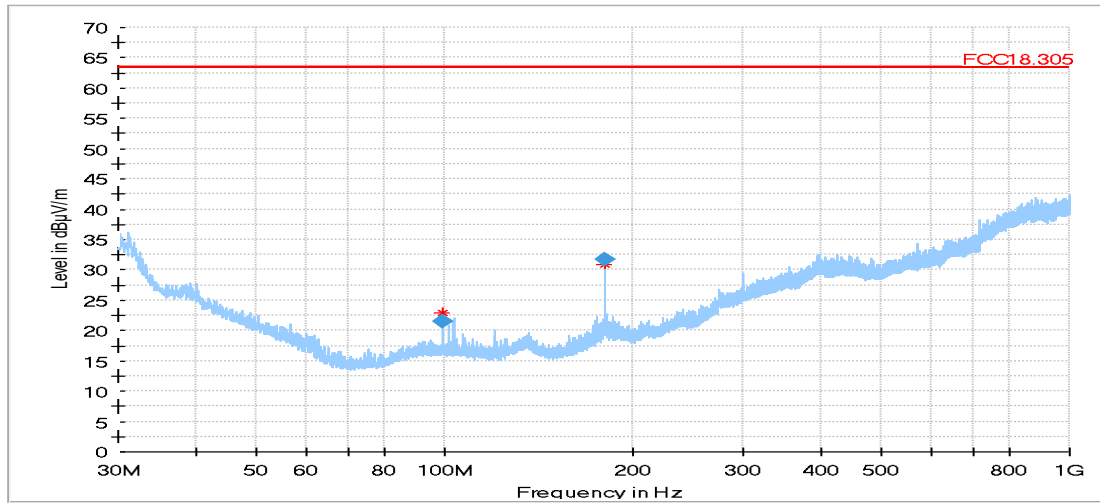


Diagram:.3.01a_EUT_position_laying

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
99.188000	21.52	43.50	21.98	120.000	105.0	V	145.0	8.1
180.380000	31.80	43.50	11.70	120.000	177.0	H	16.0	10.7

Full Spectrum

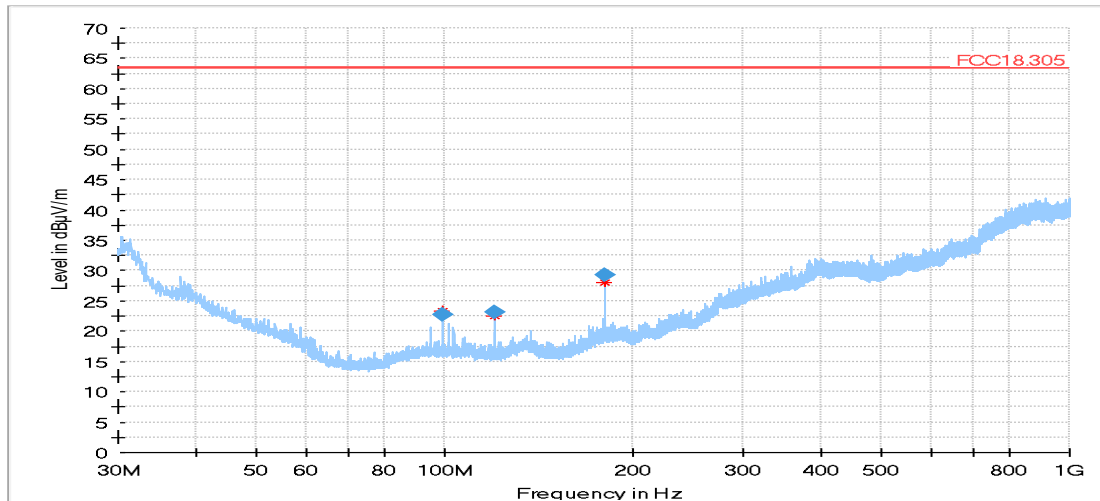


Diagram:.3.01b_EUT_position_standing

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
99.212000	22.72	63.52	40.80	120.000	105.0	V	252.0	8.1
120.276000	23.09	63.52	40.43	120.000	117.0	V	224.0	7.9
180.380000	29.29	63.52	34.23	120.000	174.0	H	159.0	10.7

4.2. Radiated emissions WPC ping mode(TX)_30 MHz to 1 GHz, op 01 + setup 02

Full Spectrum

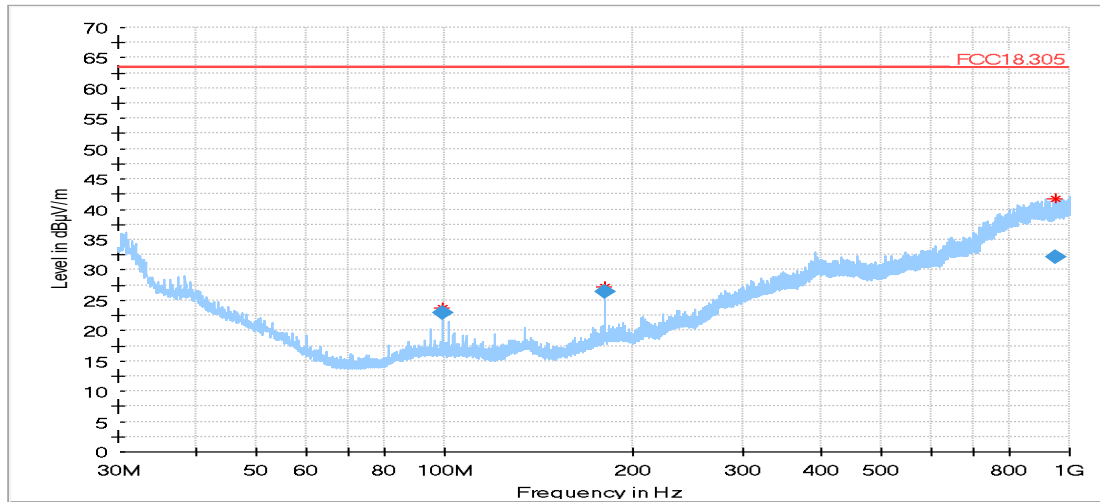


Diagram:.3.02a_EUT_position_laying

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
99.200000	22.90	63.52	40.62	120.000	105.0	V	283.0	8.1
179.992000	26.45	63.52	37.07	120.000	174.0	H	143.0	10.6
949.136000	32.23	63.52	31.29	120.000	133.0	H	303.0	27.4

Full Spectrum

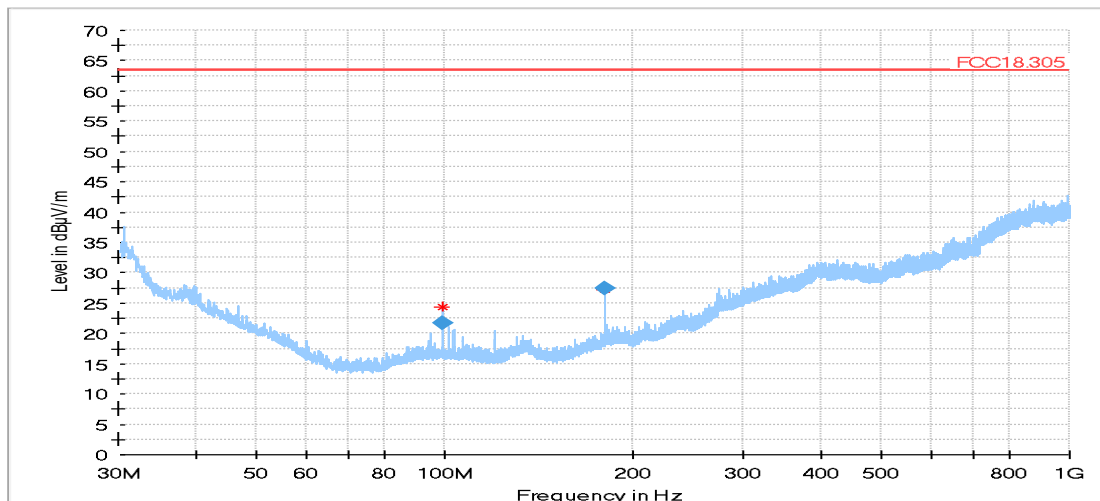


Diagram:.3.02b_EUT_position_standing

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
99.196000	21.70	63.52	41.82	120.000	142.0	V	66.0	8.1
179.992000	27.39	63.52	36.13	120.000	164.0	H	159.0	10.6

END OF ANNEX