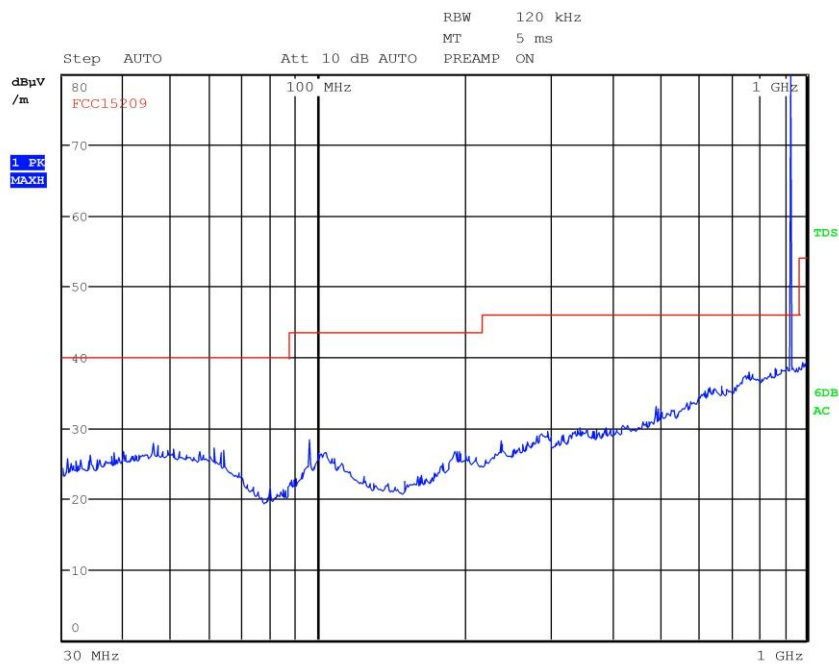




G14170819

Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx-Rx - Ant.Ext. 5m - Fmax
Operator Gandini 14170819
Test Spec
Horiz



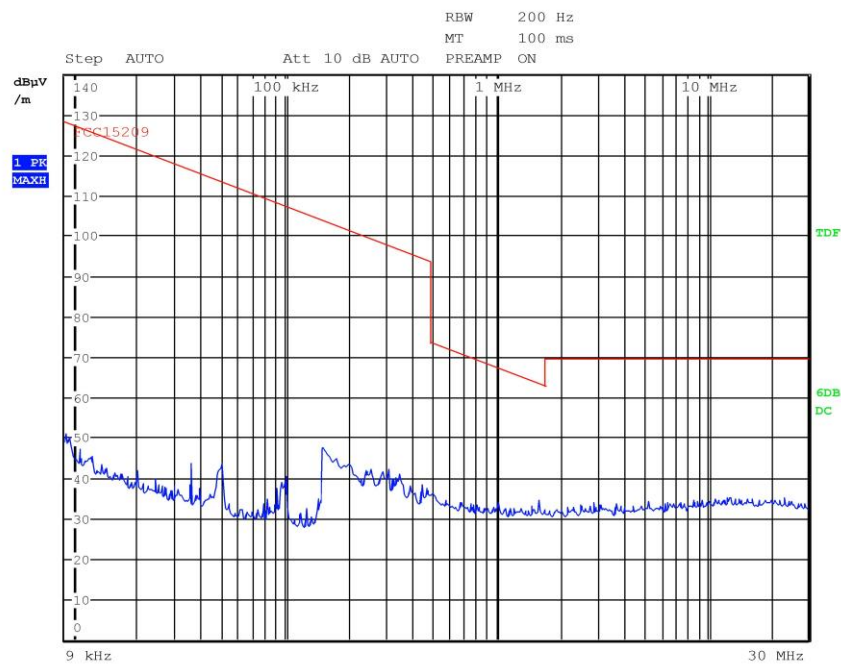
Final Measurement

Meas Time: 1 s
Margin: 6 dB
Subranges: 0



G14170820

Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx-Rx - Ant.Ext. 5m
Operator Gandini 14170820
Test Spec
Loop



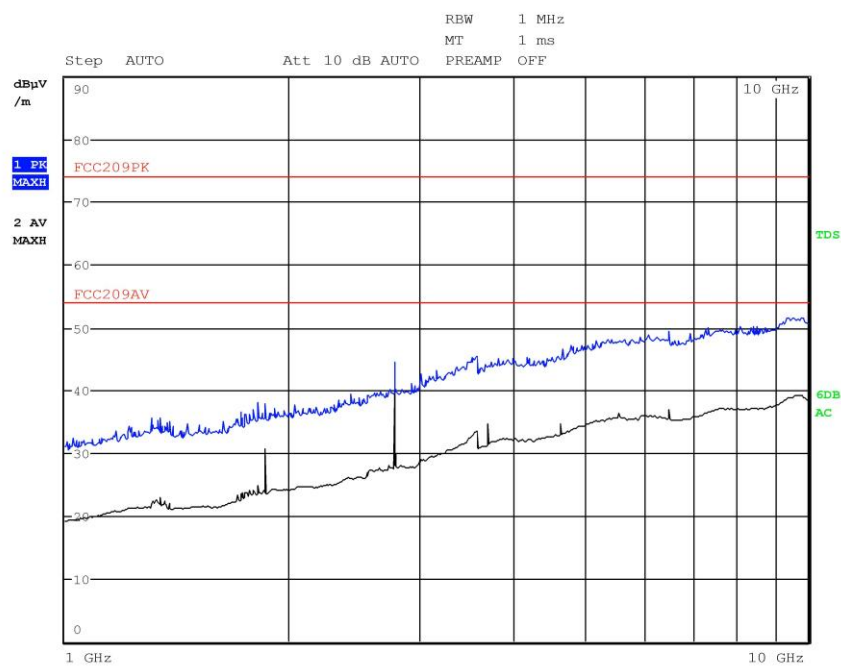
Final Measurement

Meas Time: 1 s
Margin: 6 dB
Subranges: 0



G14170835

Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Rx
Operator Gandini 14170835
Test Spec
Vert



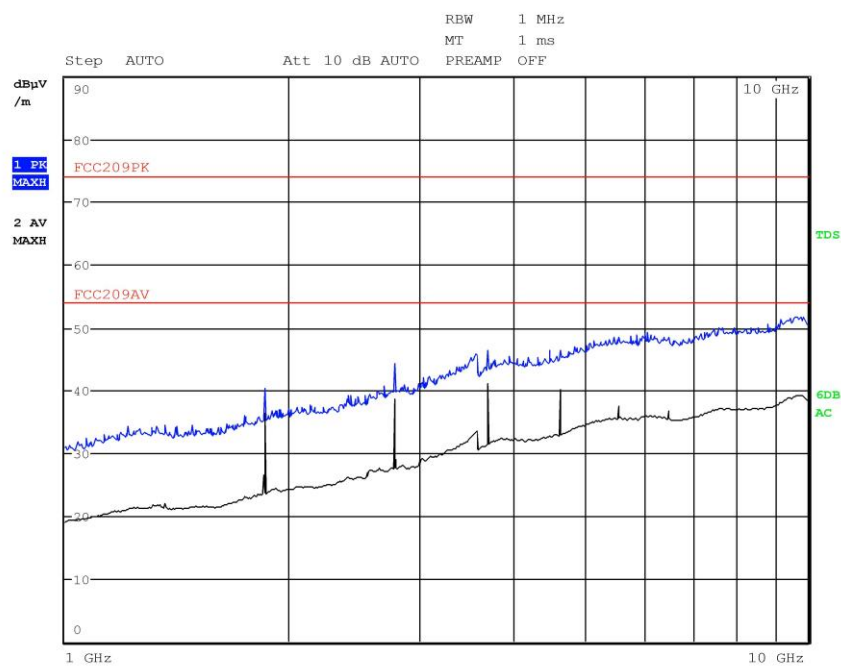
Final Measurement

Meas Time: 1 s
Margin: 6 dB
Peaks: 0



G14170836

Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Rx
Operator Gandini 14170836
Test Spec
Horiz



Final Measurement

Meas Time: 1 s
Margin: 6 dB
Peaks: 0

Result: The requirements are met



11.4 Occupied bandwidth (99% BW)

Test set-up and execution

- IC RSS-GEN Issue 4
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
Laboratory

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S164
Measurement uncertainty: See clause 7 of this test report

Test specification

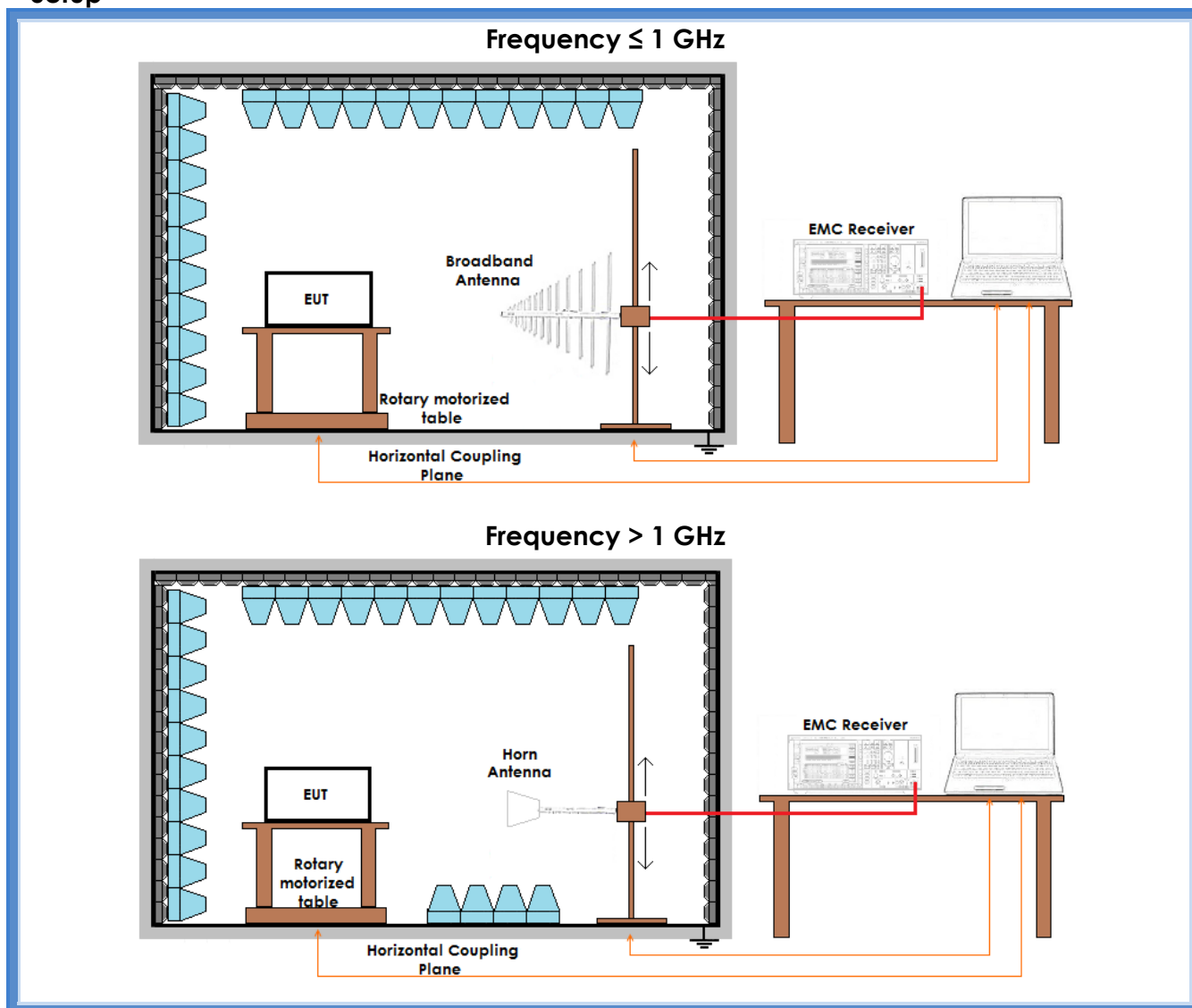
IC RSS-GEN Issue 4

Environmental conditions

Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
22	100	45



Setup



Result

f (MHz)	99% bandwidth (kHz)	Graphs	Results
915,05	14,022435	G14138929	Complies
921,00	14,102564	G14138925	Complies
927,75	14,182692	G14138921	Complies

Remarks: 12 Vdc power supply, external antenna



<i>f</i> (MHz)	99% bandwidth (kHz)	Graphs	Results
915,05	14,022435	G14138938	Complies
921,00	14,102564	G14138932	Complies
927,75	14,262820	G14138942	Complies
Remarks: 12 Vdc power supply, internal antenna			

<i>f</i> (MHz)	99% bandwidth (kHz)	Graphs	Results
915,05	14,102564	G14170832	Complies
921,00	14,182692	G14170828	Complies
927,75	14,262820	G14170824	Complies
Remarks: 43 Vac power supply, external antenna			

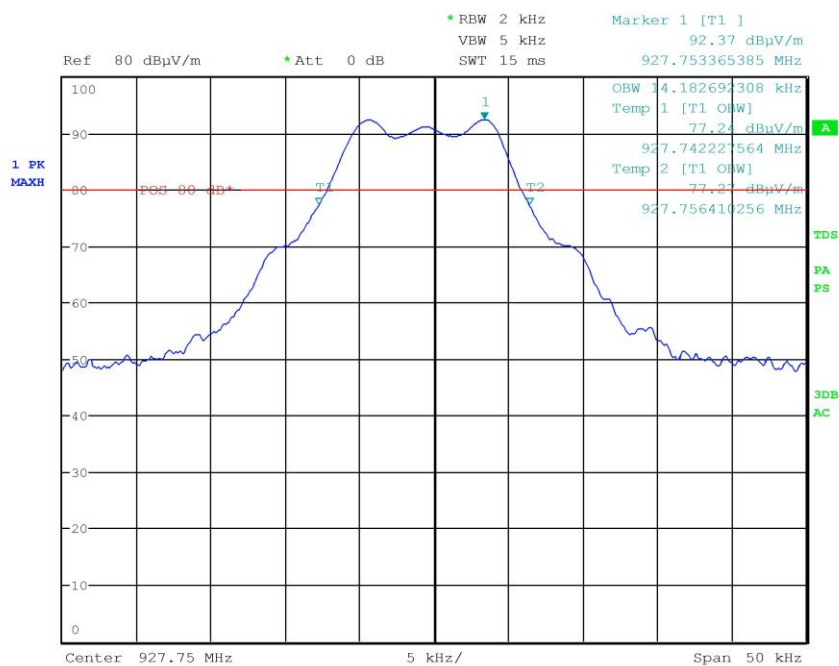
<i>f</i> (MHz)	99% bandwidth (kHz)	Graphs	Results
915,05	13,060897	G14170805	Complies
921,00	13,301282	G14170807	Complies
927,75	13,141025	G14170812	Complies
Remarks: 43 Vac power supply, internal antenna			



Graphs

G14138921

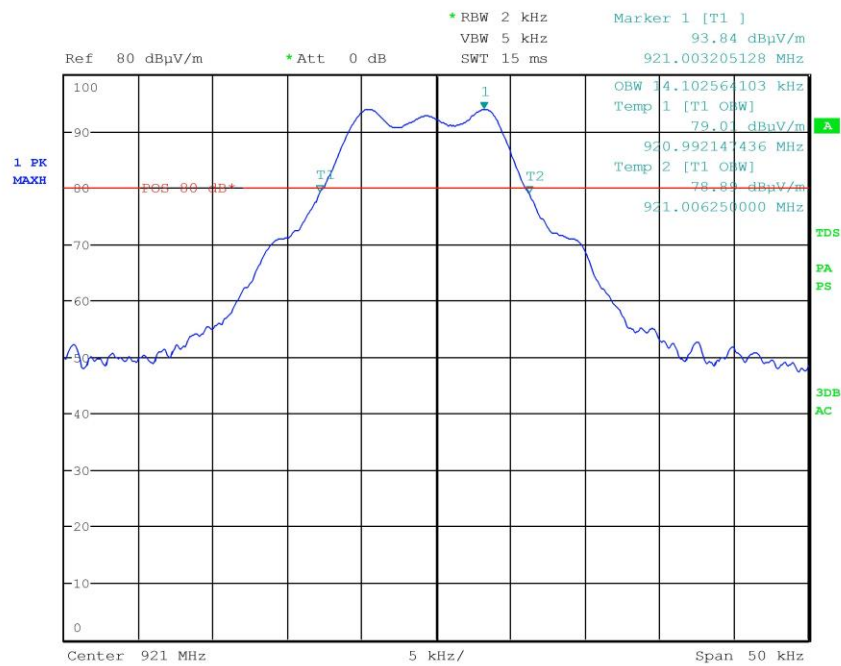
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Ant. Ext. 5m - Fmax
Operator Gandini 14138921
Test Spec
Vert





G14138925

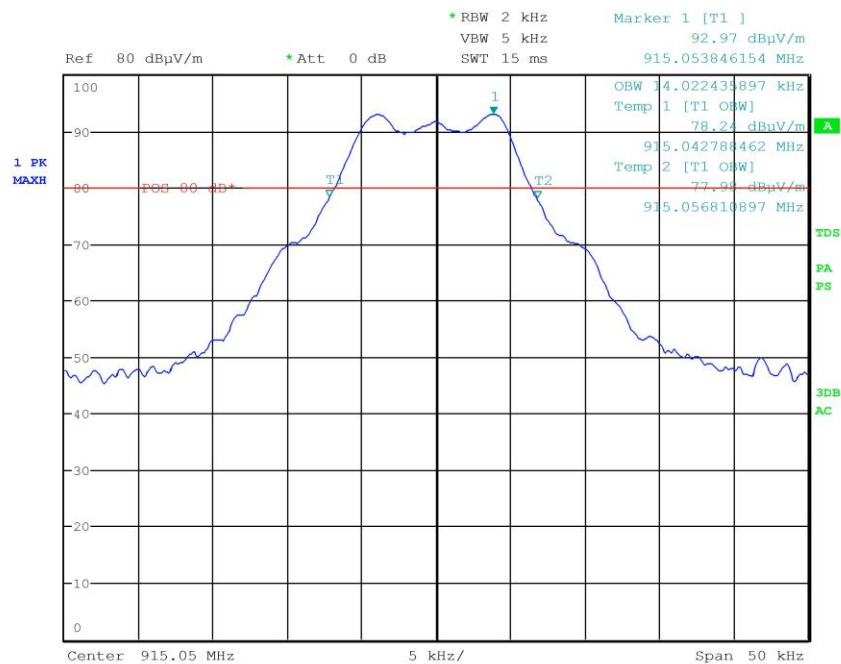
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Ant. Ext. 5m - Fmed
Operator Gandini 14138925
Test Spec
Vert





G14138929

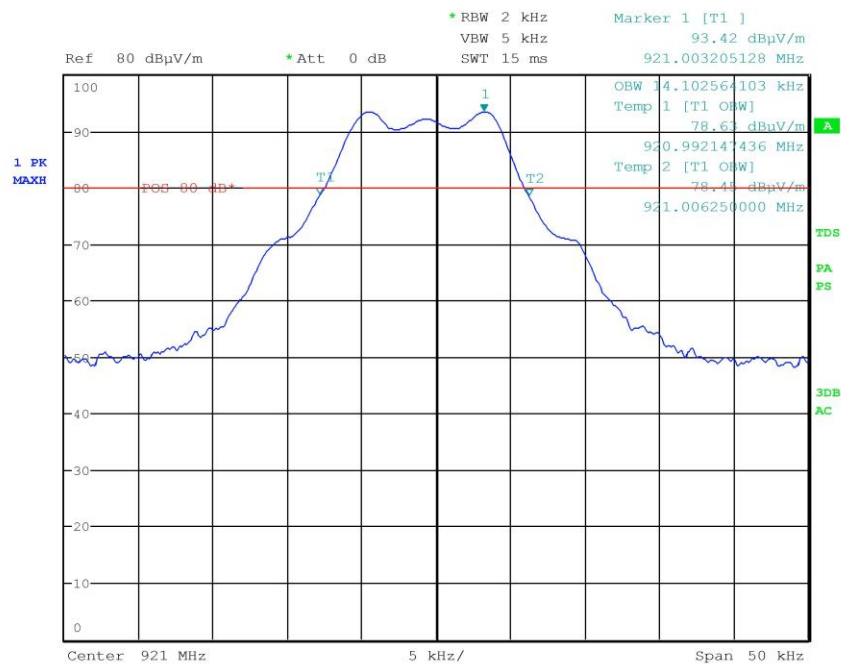
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Ant. Ext. 5m - Fmin
Operator Gandini 14138929
Test Spec
Vert





G14138932

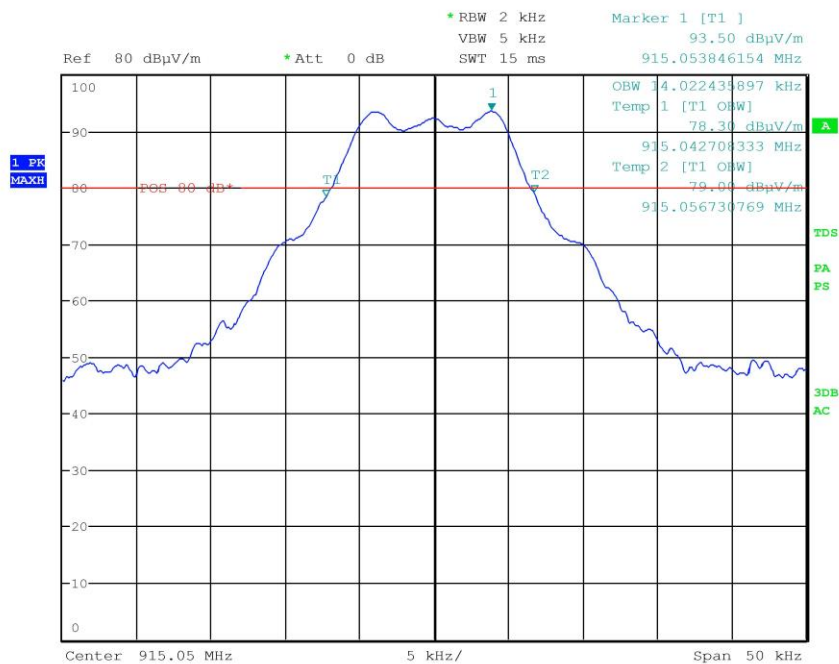
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Ant. Int. 5m - Fmed
Operator Gandini 14138932
Test Spec
Vert





G14138938

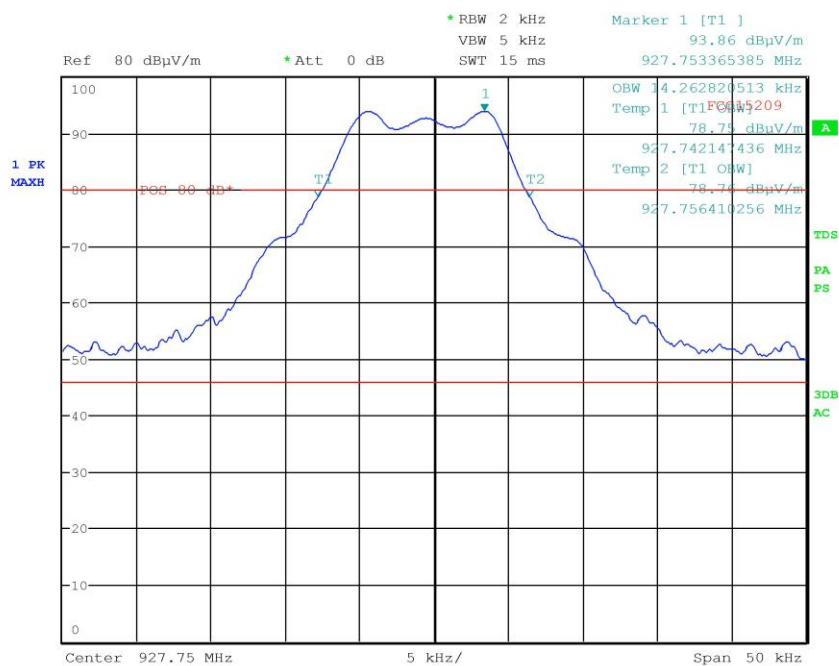
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Ant. Int. - Fmin
Operator Gandini 14138938
Test Spec
Vert





G14138942

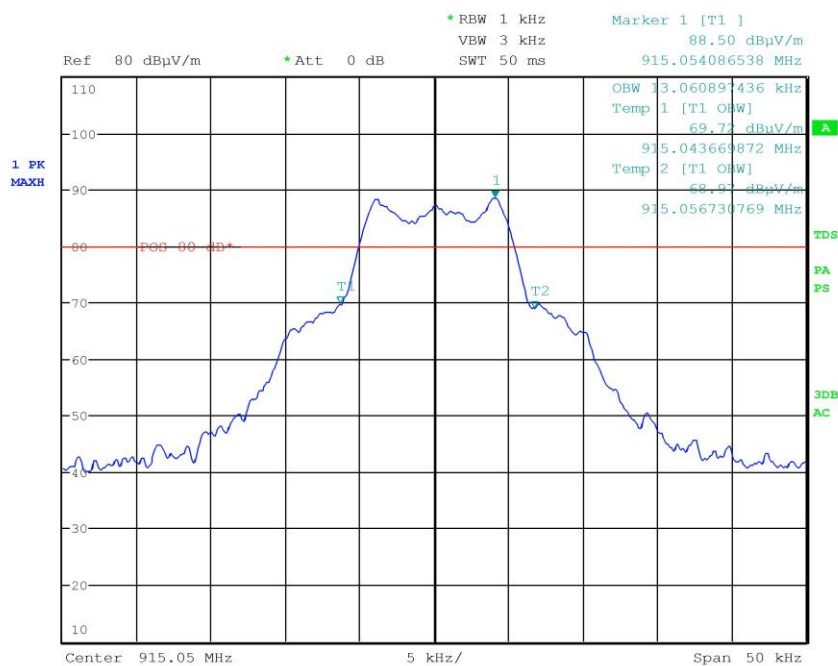
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Ant. Int. - Fmax
Operator Gandini 14138942
Test Spec
Vert





G14170805

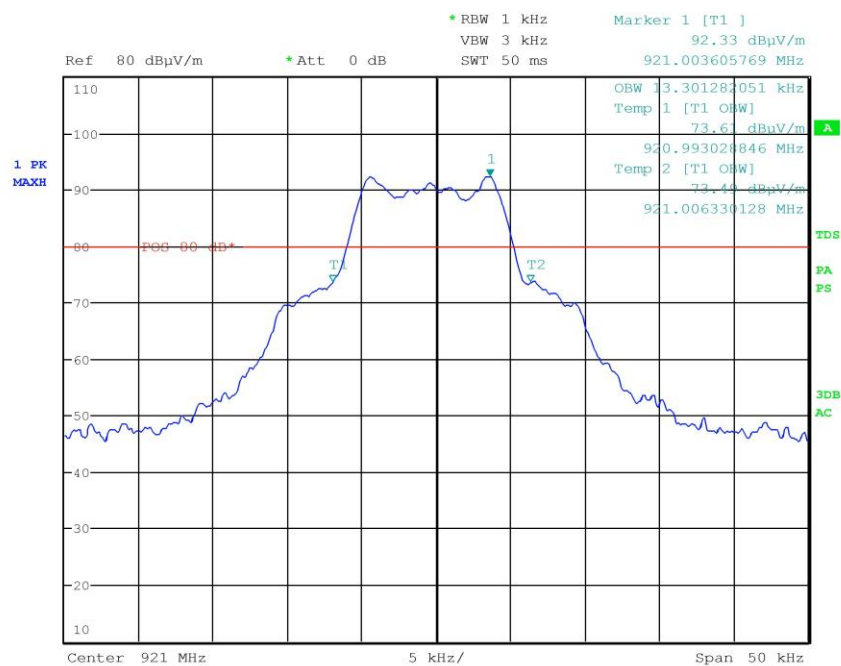
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx-Rx - Fmin - Ant.Int.
Operator Gandini 14170805
Test Spec
Horiz

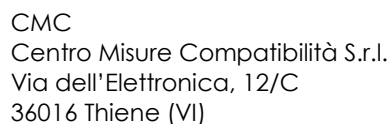




G14170807

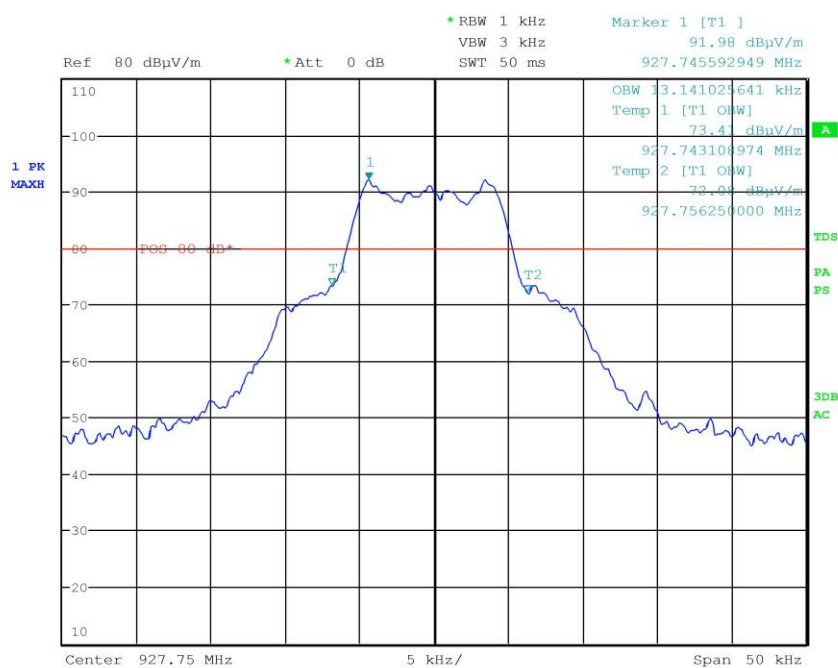
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx-Rx - Fmed - Ant.Int.
Operator Gandini 14170807
Test Spec
Horiz





G14170812

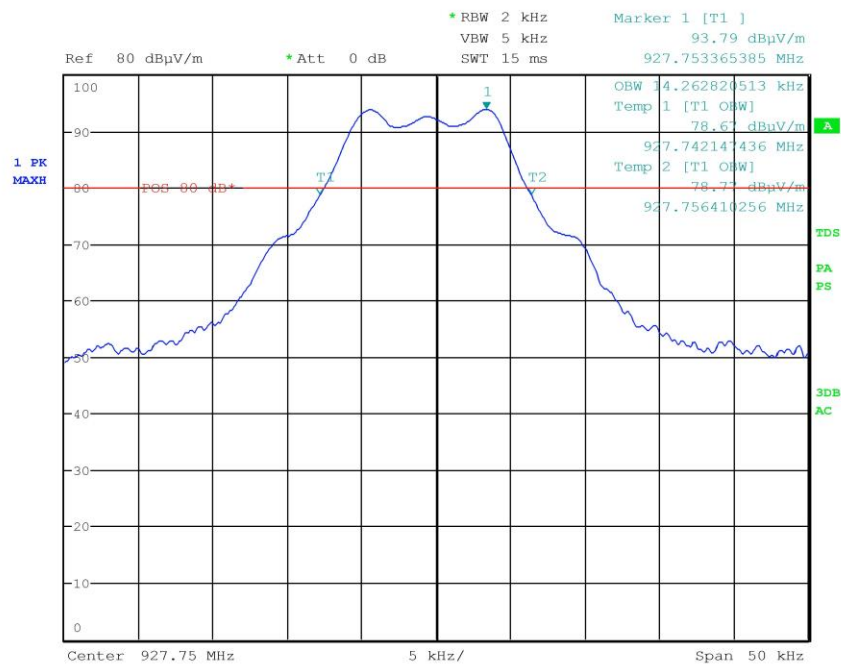
Meas Type	Emission
Equipment under Test	
Manufacturer	
OP Condition	Tx-Rx - Fmax - Ant.Int.
Operator	Gandini 14170812
Test Spec	
Horiz	





G14170824

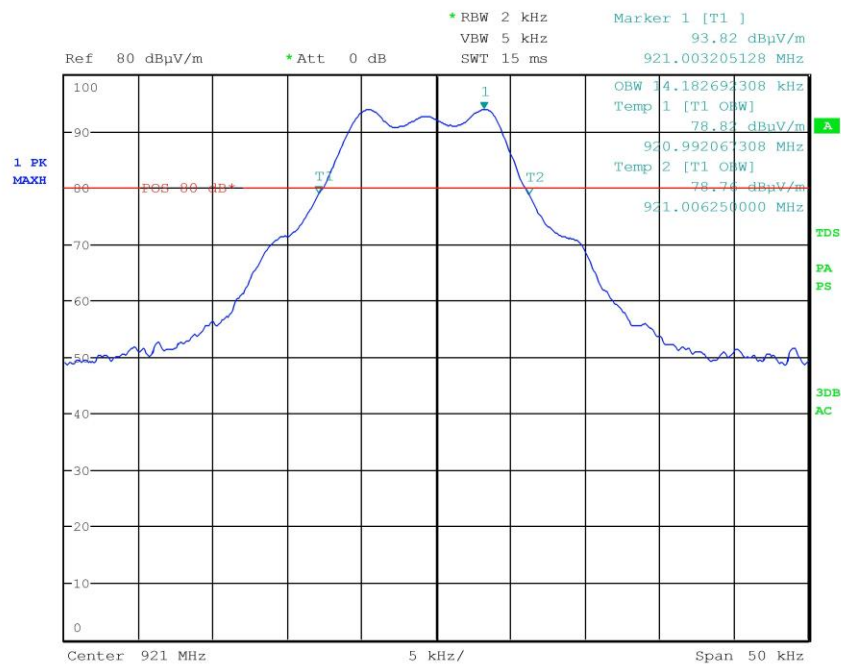
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Ant. Ext 5m - Fmax
Operator Gandini 14170824
Test Spec
Vert





G14170828

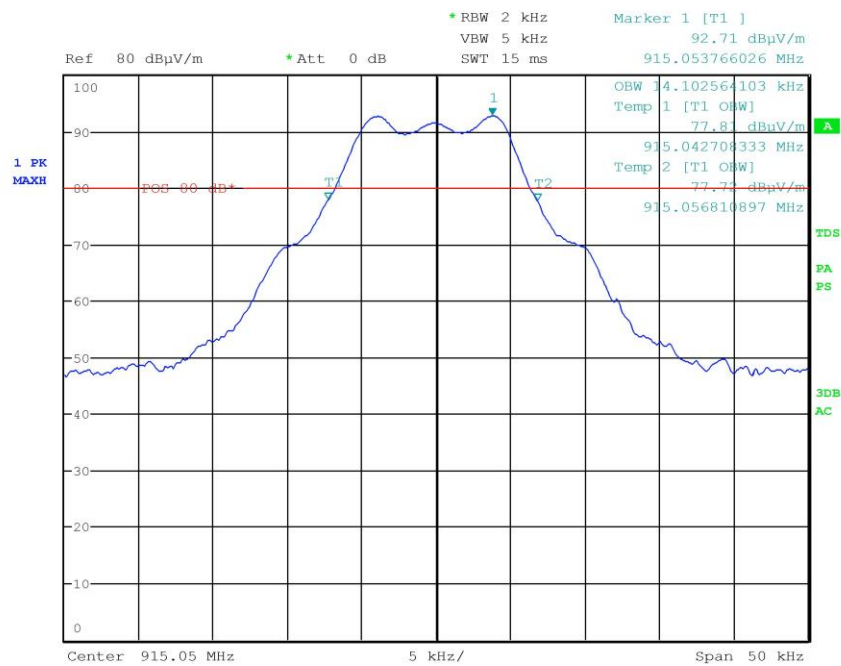
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Ant. Ext 5m - Fmed
Operator Gandini 14170828
Test Spec
Vert





G14170832

Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Ant. Ext 5m - Fmin
Operator Gandini 14170832
Test Spec
Vert



Result: The requirements are met



11.5 Peak Output Power

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.209 and Part 15.249
- IC RSS 210 Annex 2 (A2.9)
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
Semi-anechoic chamber

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S164
Measurement uncertainty: See clause 7 of this test report

Test specification

Port: Enclosure
Antenna polarization: Horizontal (H) – Vertical (V)
EUT – Antenna distance: 3 m

Environmental conditions

Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
22	100	45

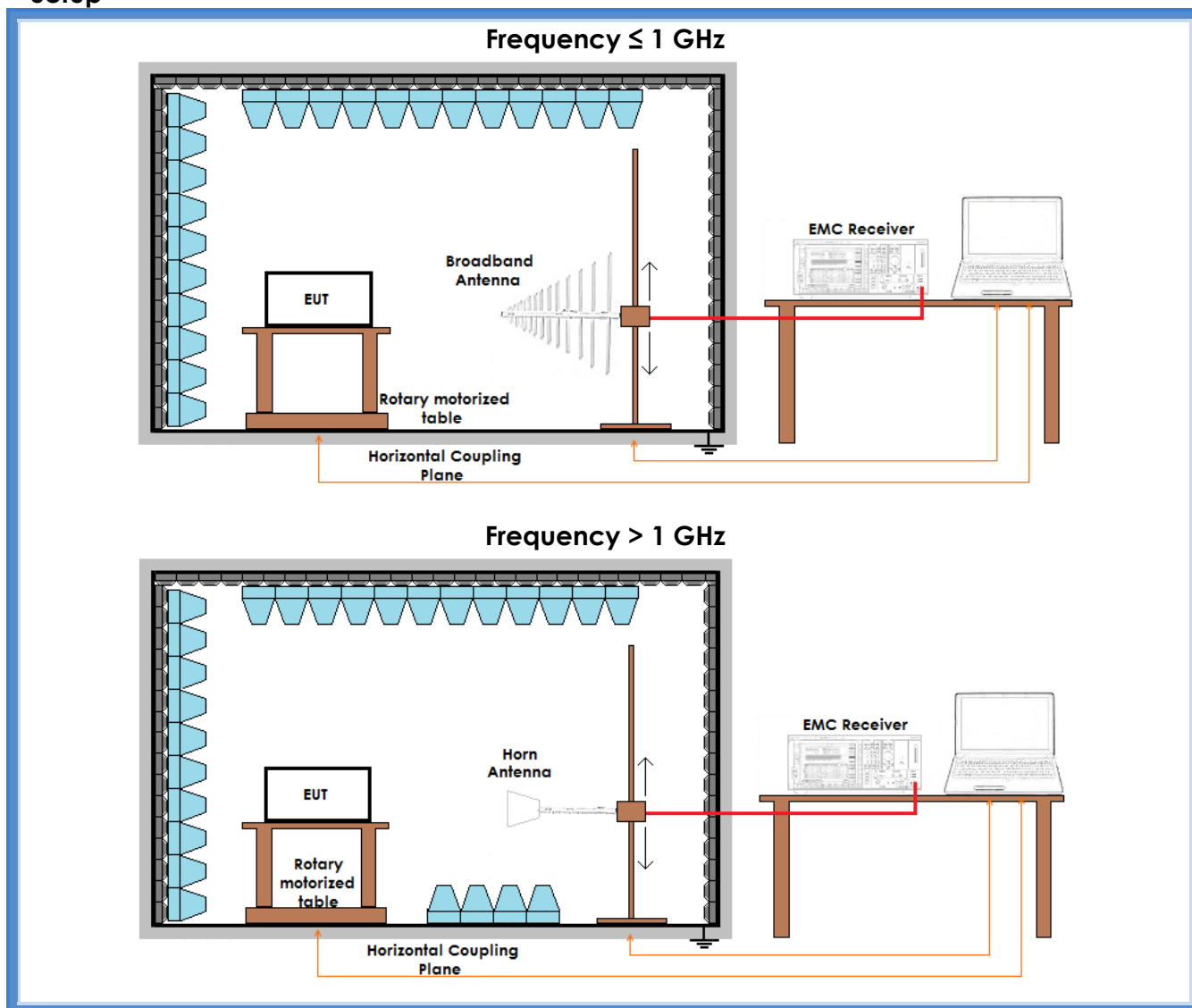
Acceptance limits

Frequency range (MHz)	RF Power Output dB(μV/m)
902 – 928	94

Frequency range (MHz)	RF Power Output dB(μV/m)
2400 – 2483,5	94



Setup



Result

Frequency (MHz)	Polarization	Graphs	Measured QP level (dB μ V/m)	Peak Output Power (mW)	Remarks
915,046794	Horizontal	G14138930	84,83	0,091	--
915,054807	Vertical	G14138926	92,97	0,594	--
920,996794	Horizontal	G14138923	84,80	0,091	--
921,003205	Vertical	G14138924	93,91	0,738	--
927,746794	Horizontal	G14138922	84,80	0,091	--
927,753205	Vertical	G14138918	92,48	0,531	--

Remarks: 12 Vdc power supply, external antenna



Frequency (MHz)	Polarization	Graphs	Measured QP level (dB μ V/m)	Peak Output Power (mW)	Remarks
915,046666	Horizontal	G14138934	88,38	0,207	--
915,053333	Vertical	G14138935	93,58	0,684	--
921,001602	Horizontal	G14138933	88,35	0,205	--
920,998397	Vertical	G14138931	93,48	0,669	--
927,745192	Horizontal	G14138943	90,21	0,315	--
927,748397	Vertical	G14138939	93,89	0,735	--
Remarks: 12 Vdc power supply, internal antenna					

Frequency (MHz)	Polarization	Graphs	Measured QP level (dB μ V/m)	Peak Output Power (mW)	Remarks
915,053205	Horizontal	G14170833	84,19	0,079	--
915,053205	Vertical	G14170829	92,77	0,568	--
921,995192	Horizontal	G14170826	85,57	0,108	--
921,995192	Vertical	G14170827	93,89	0,735	--
927,746494	Horizontal	G14170825	85,13	0,098	--
927,746494	Vertical	G14170821	93,79	0,718	--
Remarks: 43 Vac power supply, external antenna					



Frequency (MHz)	Polarization	Graphs	Measured QP level (dB μ V/m)	Peak Output Power (mW)	Remarks
915,053205	Horizontal	G14170801	89,30	0,255	--
915,048397	Vertical	G14170802	85,98	0,119	--
921,000000	Horizontal	G14170806	93,17	0,622	--
920,935192	Vertical	G14170808	91,04	0,381	--
927,745192	Horizontal	G14170809	93,17	0,622	--
927,745192	Vertical	G14170813	89,63	0,275	--
Remarks: 43 Vac power supply, internal antenna					

Remarks

$$P = (E \times d)^2 / (30 \times G)$$

Where:

E = the measured maximum fundamental field strength in V/m

G = the numeric gain of the transmitting antenna: 1 (0 dBi)

d = the distance in meters from which the field strength was measured (3 m)

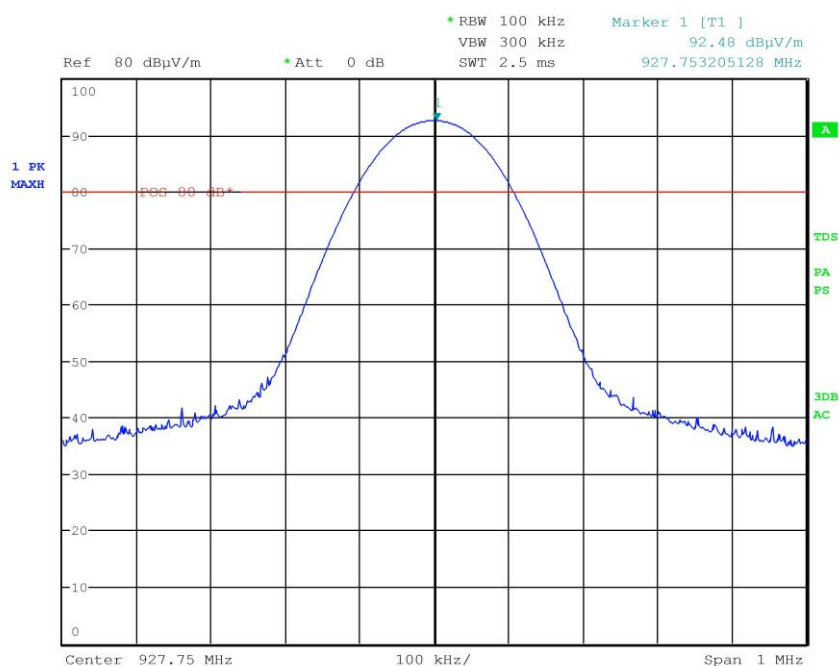
P = the power in watts



Graphs

G14138918

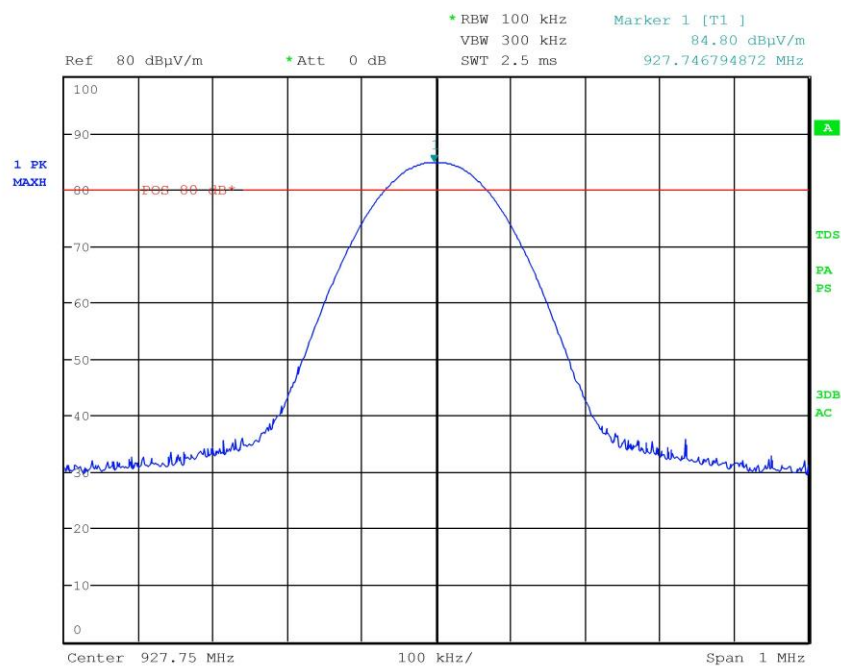
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Ant. Ext. 5m - Fmax
Operator Gandini 14138918
Test Spec
Vert





G14138922

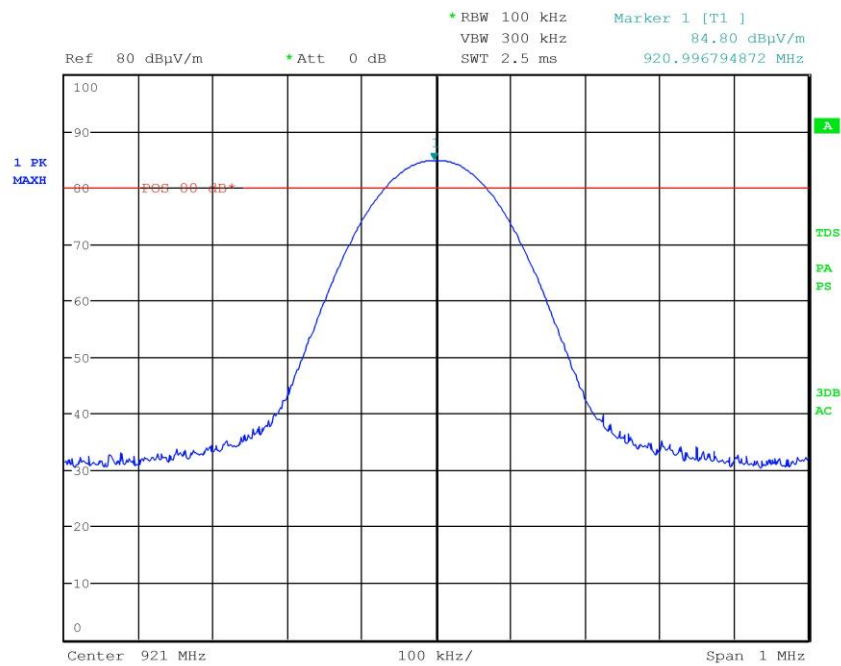
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Ant. Ext. 5m - Fmax
Operator Gandini 14138922
Test Spec
Horiz





G14138923

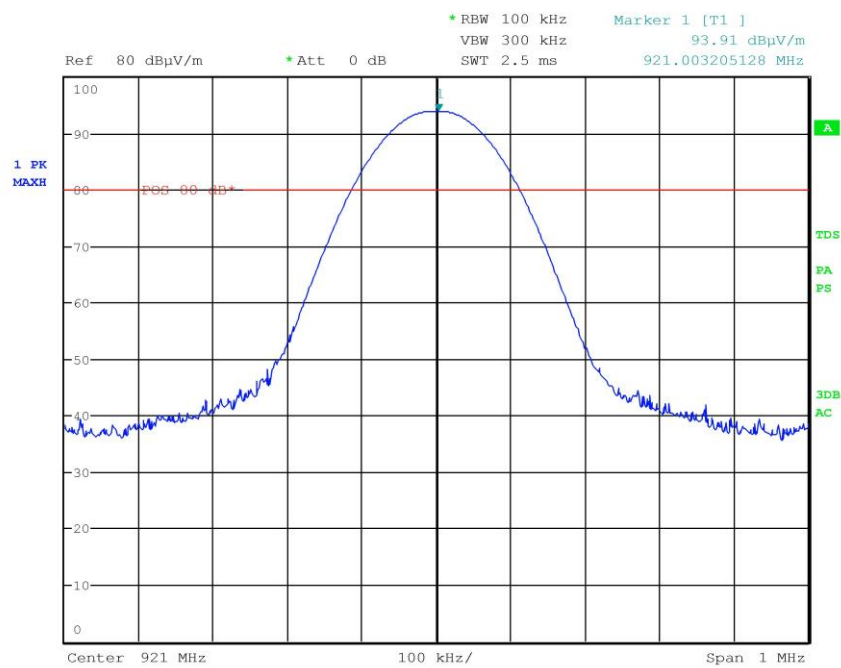
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Ant. Ext. 5m - Fmed
Operator Gandini 14138923
Test Spec
Horiz





G14138924

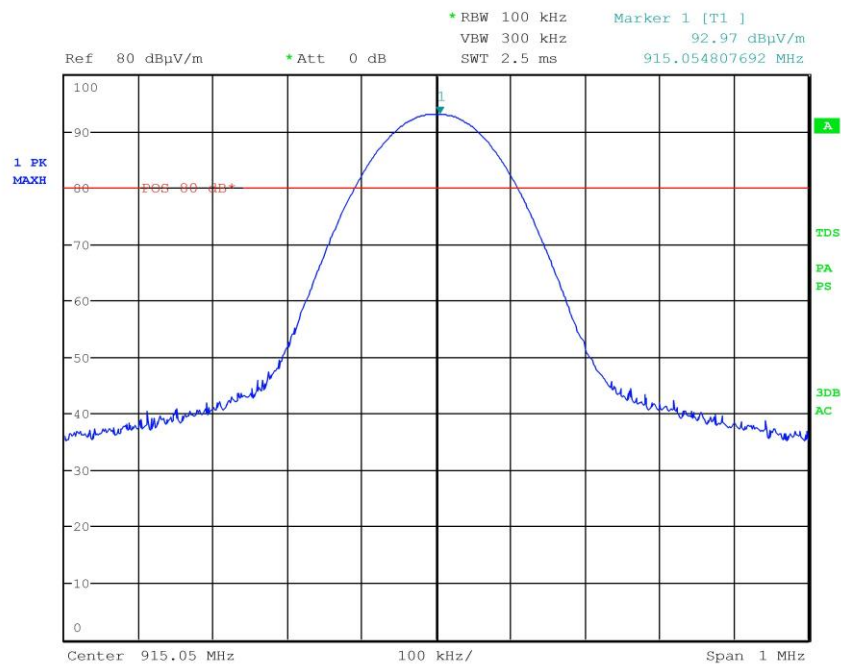
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Ant. Ext. 5m - Fmed
Operator Gandini 14138924
Test Spec
Vert





G14138926

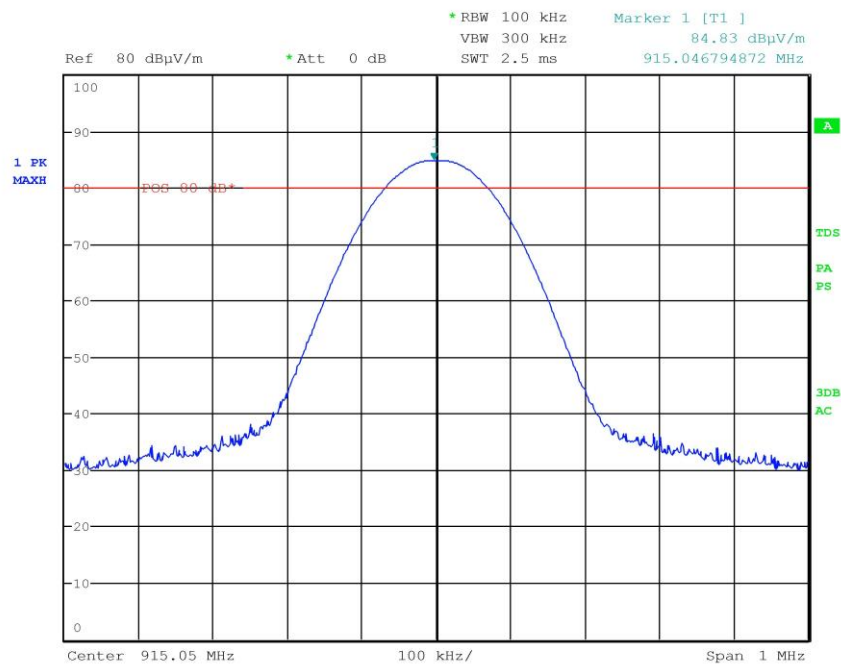
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Ant. Ext. 5m - Fmin
Operator Gandini 14138926
Test Spec
Vert





G14138930

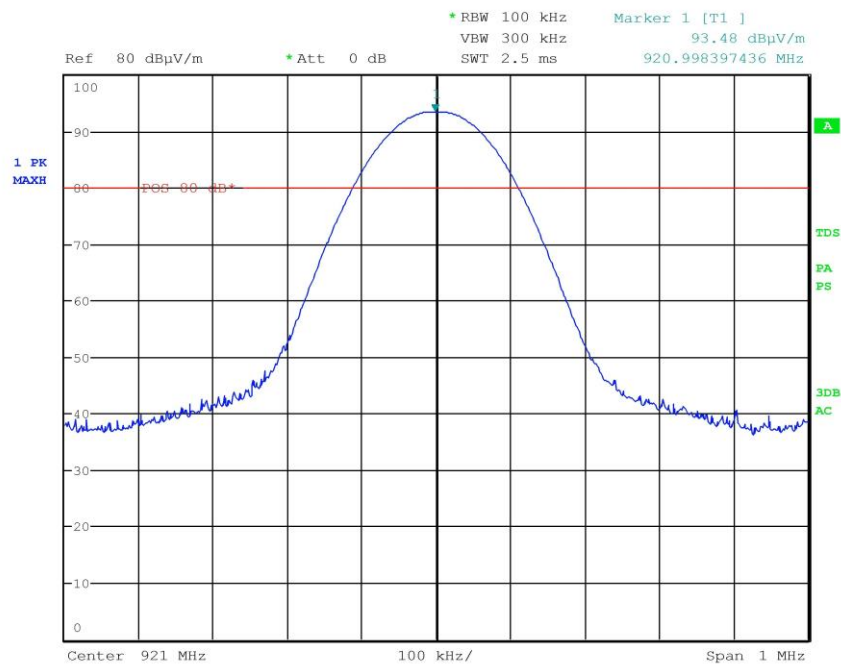
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Ant. Ext. 5m - Fmin
Operator Gandini 14138930
Test Spec
Horiz





G14138931

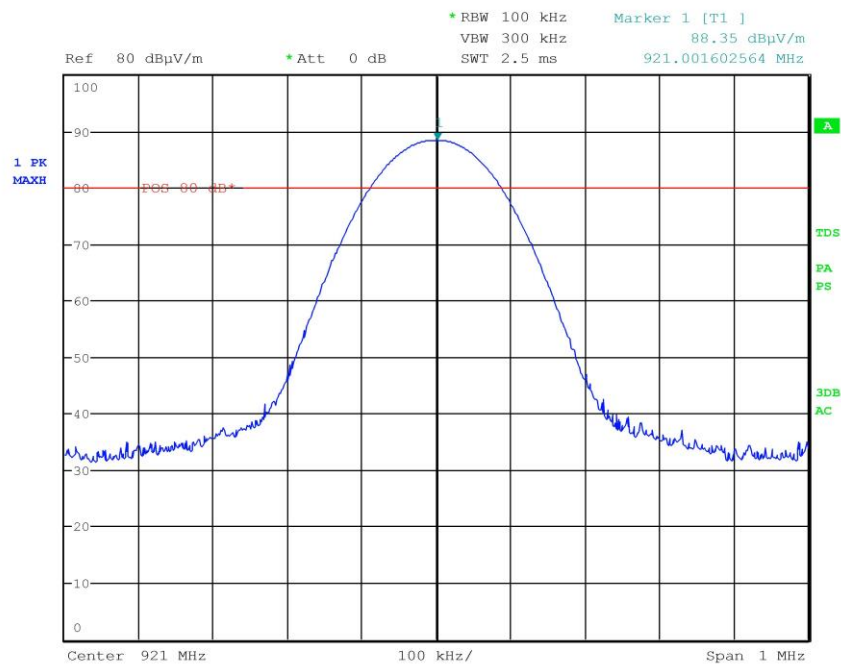
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Ant. Int. - Fmed
Operator Gandini 14138931
Test Spec
Vert





G14138933

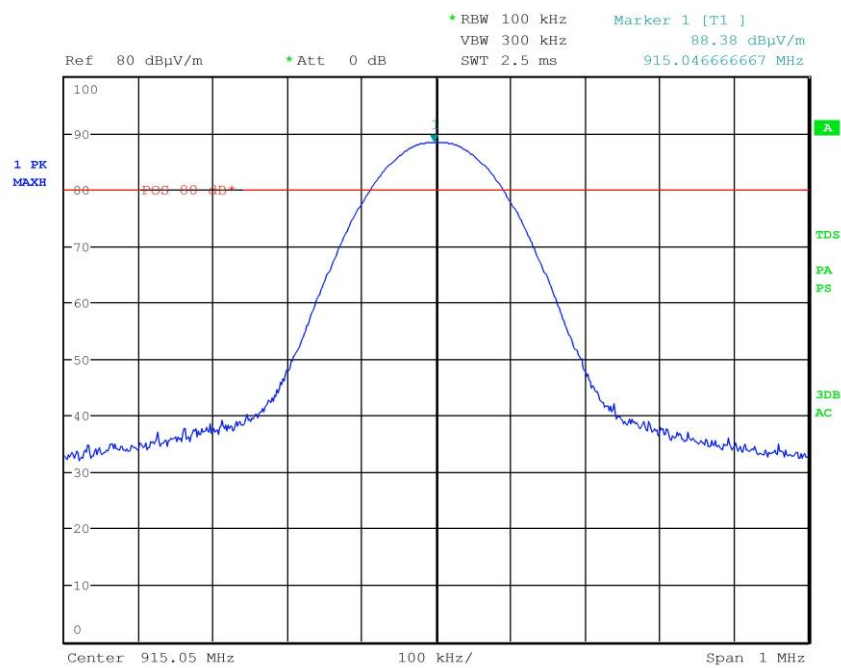
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Ant. Int. 5m - Fmed
Operator Gandini 14138933
Test Spec
Horiz





G14138934

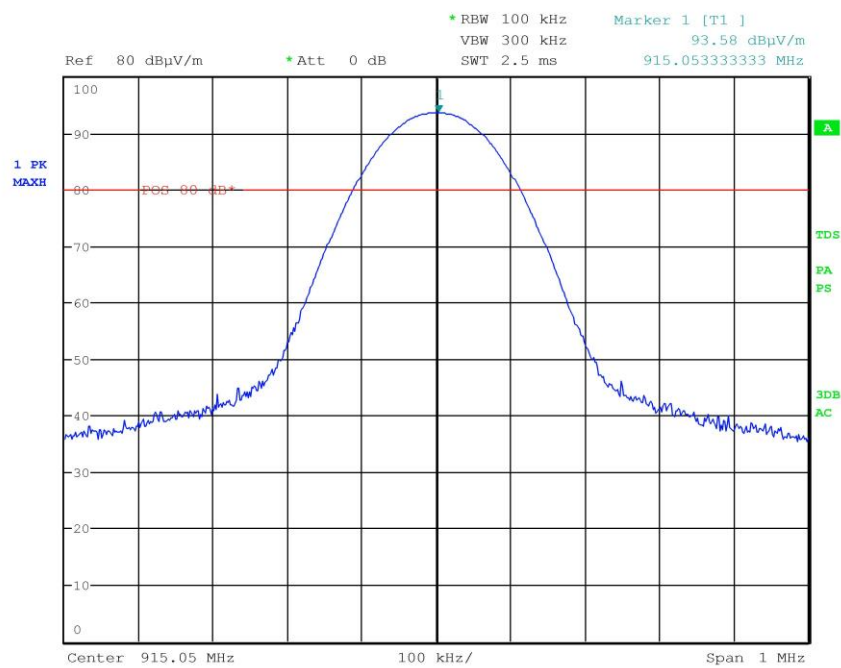
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Ant. Int. - Fmin
Operator Gandini 14138934
Test Spec
Vert





G14138935

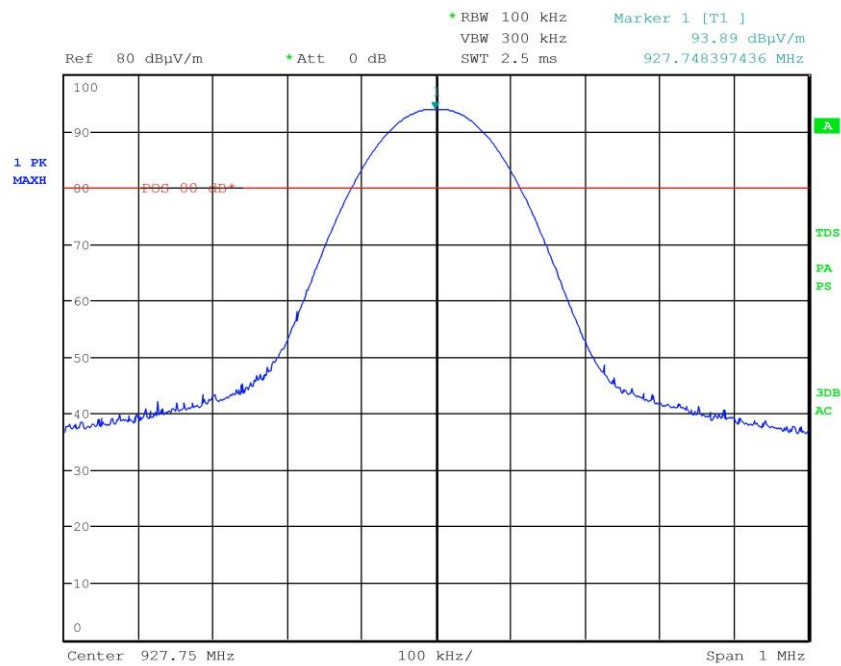
Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Ant. Int. - Fmin
Operator Gandini 14138935
Test Spec
Vert

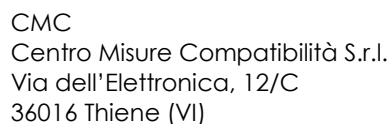




G14138939

Meas Type Emission
Equipment under Test
Manufacturer
OP Condition Tx - Ant. Int. - Fmax
Operator Gandini 14138939
Test Spec
Vert





G14138943

Meas Type	Emission
Equipment under Test	
Manufacturer	
OP Condition	Tx - Ant. Int. - Fmax
Operator	Gandini 14138943
Test Spec	
Horiz	

