

# Test report

Number: **T251-0643/16 A1** Project file: **C20161245**

Date: **2016-09-30**

Pages: **60**

Product: **Wireless Communication module**

Model: **USB RF Module**

Ratings: **5 V DC USB**  
**Operating frequency: 908.37-915.97 MHz**  
**Protection class: III.**

Trademark: **Qubino, NETIChome**

Applicant: **Goap d.o.o. Nova Gorica**  
**Ul. Klementa Juga 7, SI-5250 Solkan, Slovenia**

Manufacturer: **Goap d.o.o. Nova Gorica**  
**Ul. Klementa Juga 7, SI-5250 Solkan, Slovenia**

Place of manufacture: **DEC elettronica srl, Via dell'Artigianato 12/1, IT-31040 Chiarano (TV), Italy**  
**ASTREL S.R.L., Via Isonzo 21/E, IT-34070 Mossa (GO), Italy**

## Summary of testing

Testing method: **FCC Part 15, Subpart C**

Testing location: **SIQ Ljubljana, Trpinčeva ulica 37 A, SI-1000 Ljubljana, Slovenia**

Remarks: **Date of receipt of test items: 2016-05-04**  
**Number of items tested: 1**  
**Date of performance of tests: 2016-05-24 - 2016-05-27**  
**The test results presented in this report relate only to the items tested.**  
**The product complies with the requirements of the testing methods.**

**/**

Tested by: **Andrej Škof**



Approved by: **Marjan Mak**



*The report shall not be reproduced except in full.*

**CONTENTS****page**

<b>1</b>	<b><u>GENERAL</u></b>	<b>3</b>
1.1	EQUIPMENT UNDER TEST	3
1.2	ANSI C63.4 SUBPART SELECTION	4
1.3	CLASS STATEMENT REQUIREMENTS	4
1.4	OCCUPIED BANDWIDTH MEASUREMENT	4
1.5	QUASI-PEAK DETECTOR	4
1.6	PEAK, RMS, AND AVERAGE DETECTORS	4
<b>2</b>	<b><u>LIMITS FOR ALL SUBPARTS</u></b>	<b>5</b>
2.1	SUBPART C: INTENTIONAL RADIATORS	5
<b>3</b>	<b><u>ALL TEST EQUIPMENT AND THEIR DESCRIPTION</u></b>	<b>7</b>
3.1	GENERAL INFORMATION	7
3.2	OTHER INSTRUMENT INFORMATION AND AUXILIARY EQUIPMENT	8
<b>4</b>	<b><u>CONVERSION FACTORS AND ALL OTHER FORMULAS</u></b>	<b>10</b>
<b>5</b>	<b><u>GENERAL AND SPECIAL CONDITIONS DESCRIPTION</u></b>	<b>11</b>
5.1	GENERAL CONDITION DESCRIPTION	11
5.2	SPECIAL CONDITION DESCRIPTION	14
<b>6</b>	<b><u>TEST SUMMARY</u></b>	<b>15</b>
6.1	OPERATING VOLTAGES/FREQUENCIES USED FOR TESTING	15
<b>7</b>	<b><u>EMISSION TESTS</u></b>	<b>16</b>
7.1	CONDUCTED EMISSION MEASUREMENT (INTENTIONAL RADIATOR)	16
7.2	RADIATED EMISSION MEASUREMENT (INTENTIONAL RADIATOR)	30

## 1 GENERAL

History sheet			
Date	Report No.	Change	Revision
2016-08-22	T251-0643/16	Initial Test Report issued.	--
2016-09-30	T251-0643/16 A1	Corrected initial test report due to following changes. - deleted Class B limit note on page 5, - modified Radiated emission limit on page 6, - added a note on page 37 and page 39.	1.0

**Environmental conditions:**

Ambient temperature: 15°C to 35°C

Relative humidity: 30% to 60%

Atmospheric pressure: 860 mbar to 1060 mbar

### 1.1 Equipment under test

**Wireless Communication module**

Model: **USB RF Module**

Tested SIQ sample number: S20162487

#### 1.1.1 General product information

**FCC ID:** 2AIX6AZW100A0

**Antenna Requirements (15.203):** USB RF Module has internal, permanently attached antenna and can not be replaced by end user.



Picture of EUT

## 1.2 ANSI C63.4 Subpart selection

### *Subpart C: Intentional Radiators*

## 1.3 Class statement requirements

- The Class A statement cautions that operation of the device in a residential area is likely to cause harmful interference.
- The Class B statement offers several suggestions for minimizing interference to radio or TV receivers, including reorienting the receiving antenna and moving the Class B device farther away from the receiver.

## 1.4 Occupied bandwidth measurement

Fundamental frequency	Minimum resolution bandwidth
9 kHz to 30 MHz	1 kHz
30 to 1000 MHz	10 kHz
1000 MHz to 40 GHz	100 kHz

## 1.5 Quasi-peak detector

Frequency range	Bandwidth (-6dB)
10 Hz to 20 kHz	Full range (wideband)
10 kHz to 150 kHz	200 Hz
150 kHz to 30 MHz	9 kHz
30 MHz to 1 GHz	120 kHz

## 1.6 Peak, rms, and average detectors

Frequency range	Bandwidth (-6dB)
10 Hz to 20 kHz	10, 100, 1000 Hz
10 kHz to 150 kHz	1 and 10 kHz
150 kHz to 30 MHz	1 and 10 kHz
30 MHz to 1 GHz	10 and 100 kHz
1 GHz to 40 GHz	0.1, 1.0 and 10 MHz

## 2 LIMITS FOR ALL SUBPARTS

### 2.1 Subpart C: Intentional Radiators

#### 2.1.1 Section 15.207, Conducted emission limits:

Frequency Range (MHz)	Limits (dB $\mu$ V)	
	Quasi-peak	Average
0.15 to 0.5	66 – 56*	56 – 46*
0.5 to 5.0	56	46
5.0 to 30.0	60	50

\* Decreases with the logarithm of the frequency.

The shown limits in table shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

- For carrier current systems containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.
- For all other carrier current systems: 1000  $\mu$ V within the frequency band 535-1705 kHz, as measured using a 50  $\mu$ H/50 ohms LISN.
- Carrier current systems operating below 30 MHz are also subject to the radiated emission limits as appropriate.

## 2.1.2 Section 15.209, Radiated emission:

Limit:

Frequency Range (MHz)	Limits (dB $\mu$ V/m)	Test distance (m)
0,009 to 0,490	$20*\log(2400/F(\text{kHz}))$	300
0,490 to 1,705	$20*\log(2400/F(\text{kHz}))$	30
1,705 to 30,0	30	30
30 to 88	40**	3
88 to 216	43.5**	3
216 to 960	46**	3
Above 960	54	3

\*\* Except as provided in paragraph below, fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz.

Perimeter protection systems may operate in the 54-72 MHz and 76-88 MHz bands under the provisions of this section. The use of such perimeter protection systems is limited to industrial, business and commercial applications.

## 2.1.3 Section 15.215, 20 dB Bandwidth

Test specification: FCC Part 15 Section 15.215(c)

Intentional radiators operating under the alternative provisions to the general emission limits must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

Limit:

Frequency band (MHz)
902 – 928

## 2.1.4 Section 15.249(a), Radiated emission of Carrier

Limit:

Fundamental Frequency (MHz)	Field strength of fundamental (mV/m)	Field strength of harmonics ( $\mu$ V/m)	Test distance (m)
902-928	50	500	3

**NOTE (Additional provisions to the general radiated emission limitations – 15.215):** In no case shall the level of the unwanted emissions from an intentional radiator operating under these additional provisions exceed the field strength of the fundamental emission as per clause 15.209.

### 3 ALL TEST EQUIPMENT AND THEIR DESCRIPTION

#### 3.1 General information

Description	Model No.	SIQ No.	Last calibration	Calibrated until	Calibration period	Used
Rohde-Schwarz, RFI receiver	ESU8	105187	2015-11	2017-11	24 months	
Rohde-Schwarz, RFI receiver	ESU26	100428	2016-02	2018-02	24 months	X
Rohde & Schwarz, Artificial main network	ESH2-Z5	106899	2015-05	2017-05	24 months	X
ETS, Anechoic chamber	3m	103949	2014-11	2016-11	24 months	X
R&S, Antenna	HFH2-Z2	/	2015-09	2017-09	24 months	X
EMCO, Antenna	3142B	104351	2015-09	2017-09	24 months	X
EMCO, Antenna	3115	103002	2015-09	2017-09	24 months	X
Heinrich Deisel, Turn table	DS 420.00	103337	NA	NA	NA	X
Antenna tower	/	/	NA	NA	NA	X
Controller for turn table and antenna tower	/	/	NA	NA	NA	X

### 3.2 Other instrument information and auxiliary equipment

Description	Model No.	Bandwidth	Detector functions	Antenna factors	Cable loss	Range
Rohde-Schwarz, AMN	ENV216	/	/	/	/	9 kHz do 30 MHz
Rohde-Schwarz, RFI receiver	ESU8	200Hz, 9kHz, 120kHz, 1MHz	Peak, Q-peak, Average	/	/	20 Hz – 8 GHz
Rohde-Schwarz, RFI receiver	ESU26	200Hz, 9kHz, 120kHz, 1MHz	Peak, Q-peak, Average	/	/	20 Hz – 26.5 GHz
Hewlett Packard, RF Spectrum Analyzer	8593E	200Hz, 9kHz, 120kHz, 1MHz	Peak, Q-peak, Average	/	/	9 kHz – 26.5 GHz
Rohde & Schwarz, Artificial main network	ESH 2-Z5	/	/	/	/	9 kHz – 30 MHz
ETS, Anechoic chamber	3m	/	/	/	/	30 MHz – 18 GHz
EMCO, Antenna	model 3142	/	/	See tables below	/	26 MHz – 2 GHz
EMCO, Antenna	model 3115	/	/	See tables below	/	1 GHz – 18 GHz
Schwarzbeck Mess-Elektronik, Horn antenna	BBHA9120E	/	/	See tables below	/	450 MHz – 6 GHz
SIQ, Conducted emission cable	SIQ	/	/	/	See tables below	/
SIQ, Radiated emission cable	SIQ	/	/	/	See tables below	/

### 3.2.1 Cable loss and attenuation of radiated emission

#### 3.2.1.1 Conducted emission cable (SIQ-K024)

Point	Frequency (9kHz-30MHz)	Cable length (meters)	Loss (dB)
1	190 kHz	1	0,4
2	530 kHz	1	0,26
3	2,53 MHz	1	0,16
4	5,19 MHz	1	0,07
5	11,05 MHz	1	0,03
6	22,01 MHz	1	0,06
7	24,03 MHz	1	0,04

#### 3.2.1.2 Radiated emission attenuation

Point	Frequency (30 MHz – 26,5 GHz)	Attenuation (dB)
1	30 MHz	0,501
2	150 MHz	1,174
3	400 MHz	2,034
4	800 MHz	2,995
5	1 GHz	3,416
6	1,363	1,666667
7	2,686	3,58333
8	5,332	5,25
9	7,978	6,25
10	10,624	7,5
11	13,27	8,333333
12	15,916	9,166666
13	18,562	9,833333
14	21,208	10,66667
15	23,854	11,5
16	26,5	12,16667

#### 4 CONVERSION FACTORS AND ALL OTHER FORMULAS

Unit	Conversion unit	Formula of conversion
dB $\mu$ V	dB $\mu$ V/m	dB $\mu$ V/m = dB\mu V + AF
$\mu$ V/m	dB $\mu$ V/m	dB $\mu$ V/m = 20log(X(\mu V/m)/1\mu V)

	Test distance stated in standard	Test distance of measurement	Conversion factor
Class B	3 m	3 m	/
Class A	10 m	3 m	20dB/decade

## 5 GENERAL AND SPECIAL CONDITIONS DESCRIPTION

### 5.1 General condition description

#### Interconnect and power cabling (or wiring)

##### 5.1.1 Test arrangement for conducted emissions

Interconnecting cables that hang closer than 40 cm to the ground-plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in  $50 \Omega$ . LISN can be placed on top of, or immediately beneath, reference ground-plane.

All other equipment powered from additional LISN(s).

Multiple outlet strip can be used for multiple power cords of non-EUT equipment.

LISN at least 80 cm from nearest part of EUT chassis.

Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use.

Non-EUT components of EUT system being tested.

Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop.

Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground-plane.

##### 5.1.2 Test arrangement for conducted emissions- floor-standing equipment

Excess I/O cables shall be bundled in the center. If bundling is not possible, the cables shall be arranged in serpentine fashion. Bundling shall not exceed 40 cm in length.

Excess power cords shall be bundled in the center or shortened to appropriate length.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. If bundling is not possible, the cable shall be arranged in serpentine fashion.

EUT and all cables shall be insulated, if required, from the ground-plane by up to 12 mm of insulating material.

EUT connected to one LISN. LISN can be placed on top of, or immediately beneath, the ground-plane.

All other equipment powered from a second LISN or additional LISN(s).

Multiple outlet strip can be used for multiple power cords of non-EUT equipment.

### 5.1.3 Test arrangement for radiated emissions tabletop equipment

Interconnecting cables that hang closer than 40 cm to the ground-plane shall be folded back and forth in the center, forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated if required using the correct terminating impedance. The total length shall not exceed 1 m.

If LISNs are kept in the test setup for radiated emissions, it is preferred that they be installed under the ground-plane with the receptacle flush with the ground-plane.

Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use.

Non-EUT components of EUT system being tested.

Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop.

No vertical conducting plane used.

Power cords drape to the floor and are routed over to receptacle.

### 5.1.4 Test arrangement for radiated emissions floor-standing equipment

Excess I/O cables shall be bundled in center. If bundling is not possible, the cables shall be arranged in serpentine fashion. Bundling not to exceed 40 cm in length.

Excess power cords shall be bundled in the center or shortened to appropriate length.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. If bundling is not possible, the cable shall be arranged in a serpentine fashion.

EUT and all cables shall be insulated, if required, from the ground-plane by up to 12 mm of insulating material.

If LISNs are kept in the test setup for radiated emissions, it is preferred that they be installed under the ground-plane with the receptacle flush with the ground plane.

## Overhead cable trays and suspended ceilings

### 5.1.5 Test arrangement for floor-standing equipment

Only one vertical riser may be used where typical of system under test.

Excess power cord shall be bundled in the center or shortened to appropriate length.

EUT and cables shall be insulated from ground-plane by up to 12 mm. Where the manual has specified or there exists a code of practice for installation of the EUT, the test arrangement shall allow the use of this practice for the tests.

Power cords being measured connected to one LISN. All other system power cords powered through other LISN(s). A multiple receptacle strip may be used for other power cords.

For *conducted* tests, the LISNs may be placed on top of or immediately beneath and bonded directly to the ground-plane. For *radiated* tests, the LISN(s), if used, should be installed under, with the receptacle flush with the ground-plane.

### 5.1.6 Placement and manipulation of interconnect cabling (or wiring) of tabletop equipment

LISN(s) may have to be positioned to the side of the table to meet the criterion that the LISN receptacle shall be 80 cm away from the EUT. LISN(s) may be above ground-plane only for conducted emission measurements.

Accessories, such as ac power adapter, if typically table-mounted, shall occupy peripheral positions as is applicable.

Accessories, which are typically floor-mounted, shall occupy a floor position directly below the portion of the EUT to which they are typically connected. T

Table length may be extended beyond 1.5 m with peripherals aligned with the back edge. The table depth may be extended beyond 1 m. The 40 cm distance to the vertical conducting plane shall be maintained for conducted emission testing.

## Placement of wall-mounted equipment

### 5.1.7 Test configuration/arrangement for combination floor-standing and tabletop equipment

Interconnecting cables that hang closer than 40 cm to the ground-plane shall be folded back and forth in the center, forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated if required using the correct terminating impedance.

If LISNs are kept in the test setup for radiated emissions, it is preferred that they be installed under the ground-plane with the receptacle flush with the ground-plane.

Cables of hand-operated devices, such as keyboards, mice, etc., have to be placed as for normal use.

Non-EUT components of EUT system being tested.

I/O cable to floor-standing unit drapes to the ground-plane and shortened or excess bundled. Cables not reaching the metal ground-plane are draped to the height of the connector or 40 cm, whichever is lower.

Power cords and signal cables shall drape to the floor. No extension cords shall be used to the power receptacles.

The floor-standing unit can be placed under the table if its height permits.

## 5.2 Special condition description

If for some reason the above measurement conditions can't be met, the description below should be used as an appropriate measurement condition and placement.

**(Description is written additionally as the measurements differ – all is within test procedure)**

## 6 TEST SUMMARY

STANDARDS (details on first page)	Tested yes	Tested no	Sample pass	Sample not pass
ANSI C63.10-2013; FCC Part 15, Subpart C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Test	Section within the report	Conclusion
Conducted emission	7.1	PASS
Radiated emission	7.2	PASS
20 db Bandwidth	7.2	PASS
Radiated emission of the carrier	7.2	PASS

### 6.1 Operating voltages/frequencies used for testing

Section	Test	Operating conditions
7.1	Conducted emission measurement	5 VDC (120 V; 60 Hz) 5 VDC (240 V; 50 Hz)
7.2	Radiated emission measurement (intentional radiator)	5 VDC
7.2	20 db Bandwidth	5 VDC
7.2	Radiated emission of the carrier	5 VDC

## 7 EMISSION TESTS

### 7.1 Conducted emission measurement (intentional radiator)

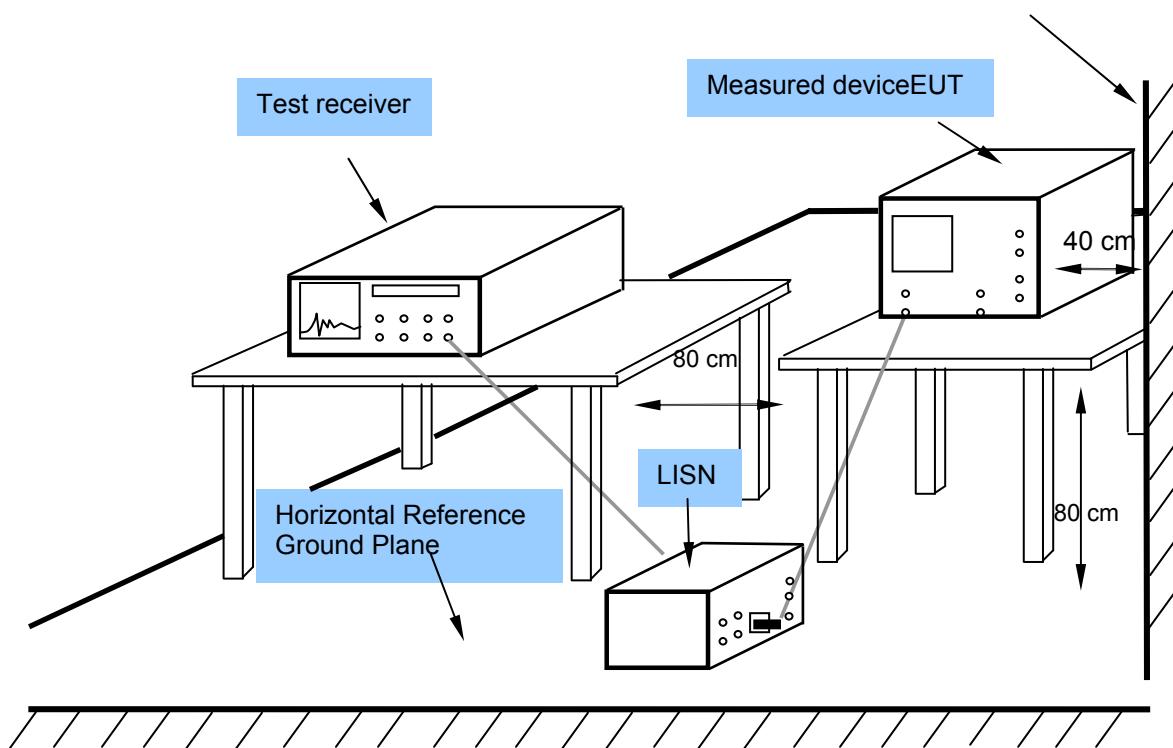
#### 7.1.1 Test instruments

Description	Model No.	SIQ No.	Last calibration	Calibrated until	Calibration period	Used
Rohde-Schwarz, RFI receiver	ESU26	100428	2016-02	2018-02	24 months	X
Rohde & Schwarz, Artificial main network	ESH2-Z5	100406	2015-05	2017-05	24 months	X

#### 7.1.2 Test procedure

- The EUT is placed on a non-conductive 0.8 meters high table, 0.4 meters from the vertical conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). LISN provide 50 Ohm / 50  $\mu$ H + 5 Ohm of coupling impedance for the measuring instrument.
- Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition.
- AC power lines of EUT are checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz is searched using PEAK, QUASI-PEAK and AVERAGE function of the receiver. Bandwidth is set to 9 kHz.
- If applicable functions are changed (data transfer speed, clock speed,...) it should be noted in the test report.

### 7.1.3 Test setup



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

### 7.1.4 Test results



Meas Type CONDUCTED EMISSION

Equipment under Test Weather Station USB Key

Manufacturer GOAP d.o.o.

OP Condition CH0, Max Power

Operator Andrej Skof

Test Spec

PHASE, 120 V/ 60 Hz

#### Time Domain Scan (1 Range)

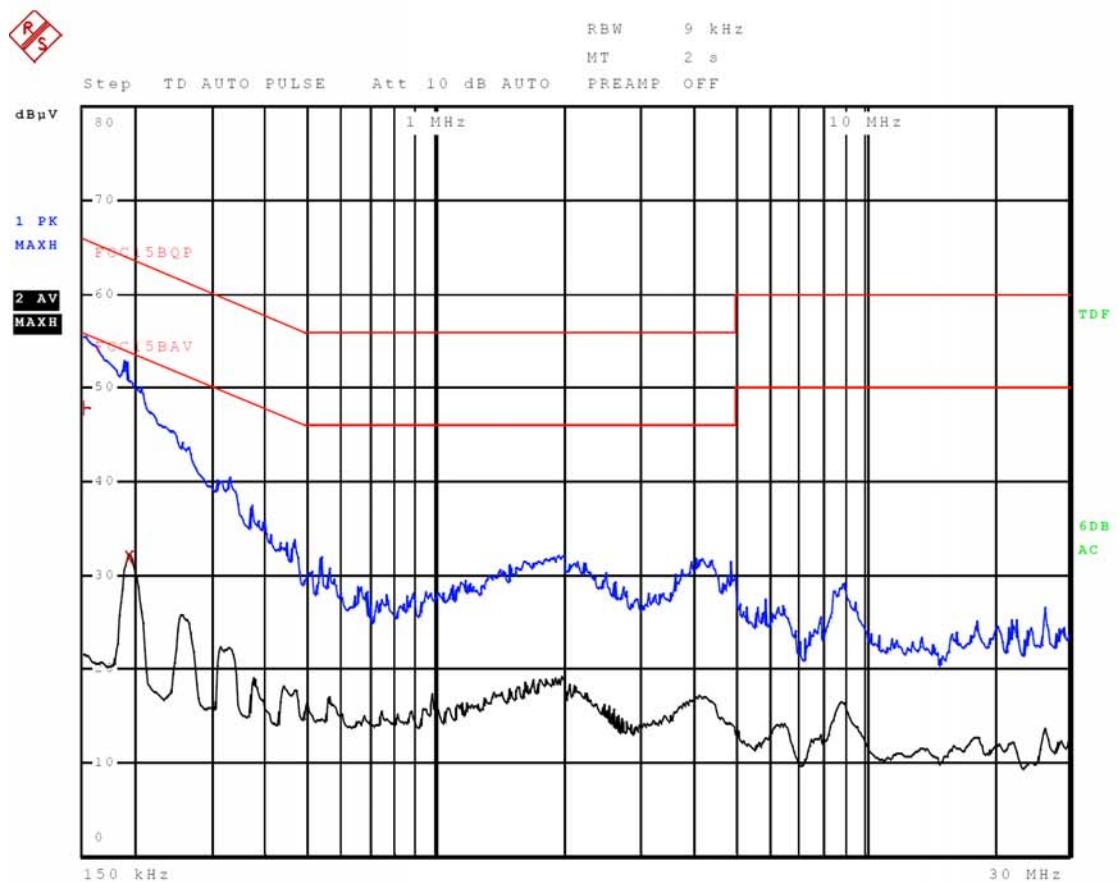
Scan Start: 150 kHz

Scan Stop: 30 MHz

Detector: Trace 1: MAX PEAK Trace 2: Average

Transducer: ESH2-Z5

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamplifier	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	50 ms	Auto	0 dB	INPUT2





**Meas Type** CONDUCTED EMISSION

**Equipment under Test** Weather Station USB Key

**Manufacturer** GOAP d.o.o.

**OP Condition** CH0, Max Power

**Operator** Andrej Skof

**Test Spec**

PHASE, 120 V/ 60 Hz

**Final Measurement**

Meas Time: 2 s

Margin: 35 dB

Subranges: 2

Trace	Frequency	Level (dB $\mu$ V)	Detector	Delta Limit/dB
1	150.000000000 kHz	47.85	Quasi Peak	-18.15
2	190.500000000 kHz	31.93	CISPR Averag	-22.09



Meas Type CONDUCTED EMISSION

Equipment under Test Weather Station USB Key

Manufacturer GOAP d.o.o.

OP Condition CH0, Max Power

Operator Andrej Skof

**Test Spec**

NEUTRAL, 120 V/ 60 Hz

**Time Domain Scan (1 Range)**

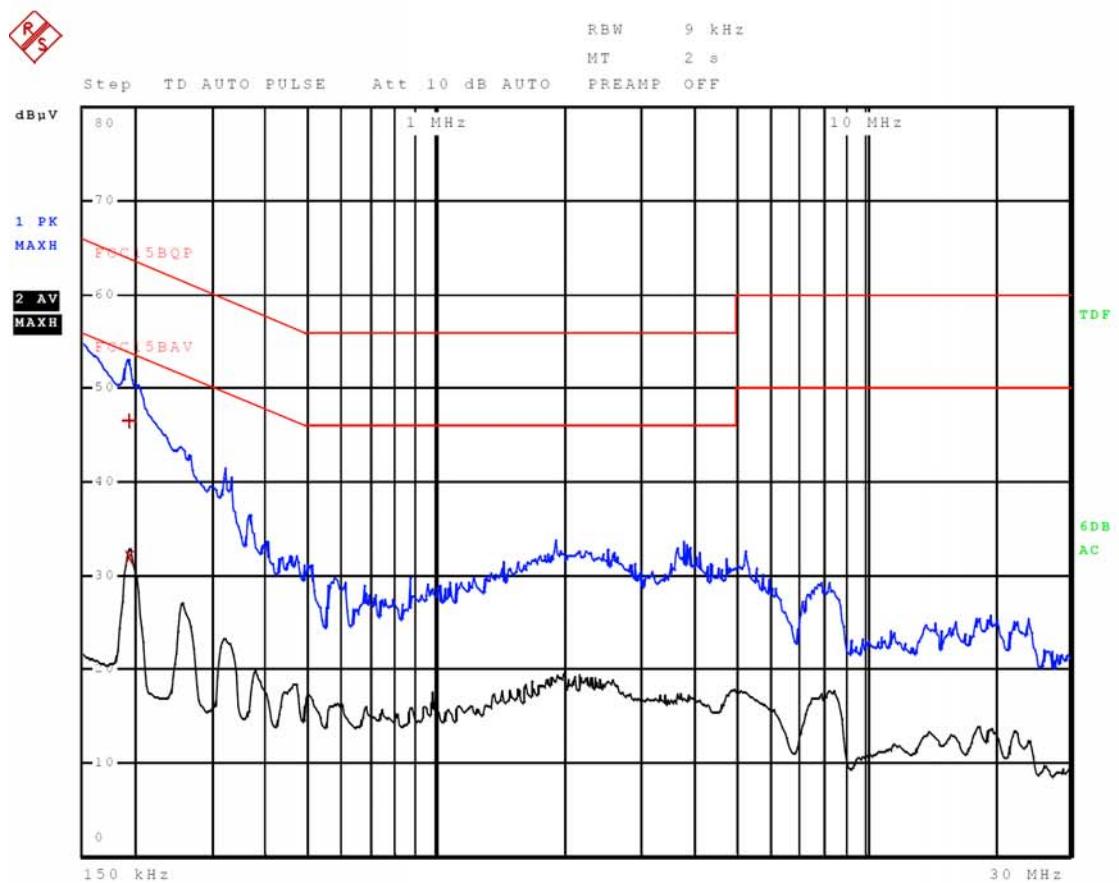
Scan Start: 150 kHz

Scan Stop: 30 MHz

Detector: Trace 1: MAX PEAK Trace 2: Average

Transducer: ESH2-Z5

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	50 ms	Auto	0 dB	INPUT2



**Meas Type** CONDUCTED EMISSION**Equipment under Test** Weather Station USB Key**Manufacturer** GOAP d.o.o.**OP Condition** CH0, Max Power**Operator** Andrej Skof**Test Spec**

NEUTRAL, 120 V/ 60 Hz

**Final Measurement**

Meas Time: 2 s

Margin: 35 dB

Subranges: 2

Trace	Frequency	Level (dB $\mu$ V)	Detector	Delta Limit/dB
1	190.500000000 kHz	46.55	Quasi Peak	-17.46
2	190.500000000 kHz	31.81	CISPR Averag	-22.20



Meas Type CONDUCTED EMISSION

Equipment under Test Weather Station USB Key

Manufacturer GOAP d.o.o.

OP Condition CH1, Max Power

Operator Andrej Skof

**Test Spec**

PHASE, 120 V/ 60 Hz

**Time Domain Scan (1 Range)**

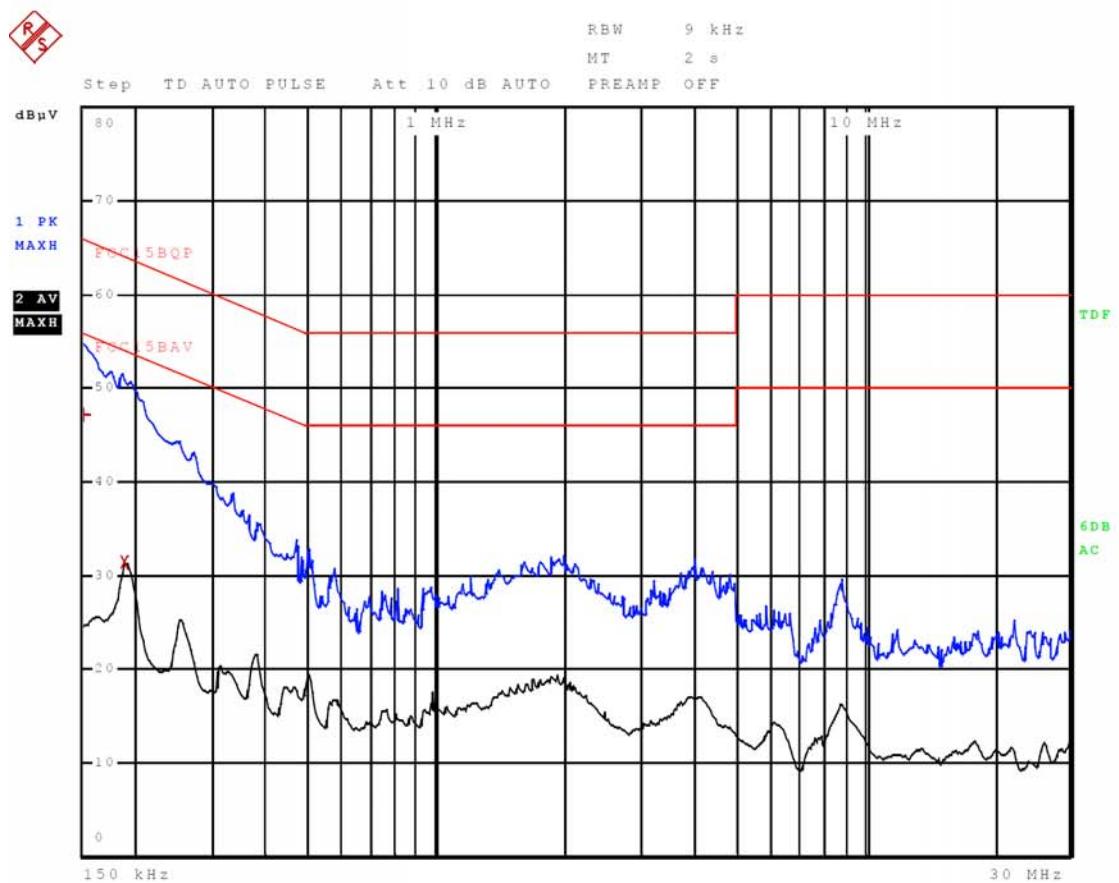
Scan Start: 150 kHz

Scan Stop: 30 MHz

Detector: Trace 1: MAX PEAK Trace 2: Average

Transducer: ESH2-Z5

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	50 ms	Auto	0 dB	INPUT2



**Meas Type** CONDUCTED EMISSION**Equipment under Test** Weather Station USB Key**Manufacturer** GOAP d.o.o.**OP Condition** CH1, Max Power**Operator** Andrej Skof**Test Spec**

PHASE, 120 V/ 60 Hz

**Final Measurement**

Meas Time: 2 s

Margin: 35 dB

Subranges: 2

Trace	Frequency	Level (dB $\mu$ V)	Detector	Delta Limit/dB
1	150.000000000 kHz	47.18	Quasi Peak	-18.82
2	188.250000000 kHz	31.38	CISPR Averag	-22.73



Meas Type CONDUCTED EMISSION

Equipment under Test Weather Station USB Key

Manufacturer GOAP d.o.o.

OP Condition CH1, Max Power

Operator Andrej Skof

**Test Spec**

NEUTRAL, 120 V/ 60 Hz

**Time Domain Scan (1 Range)**

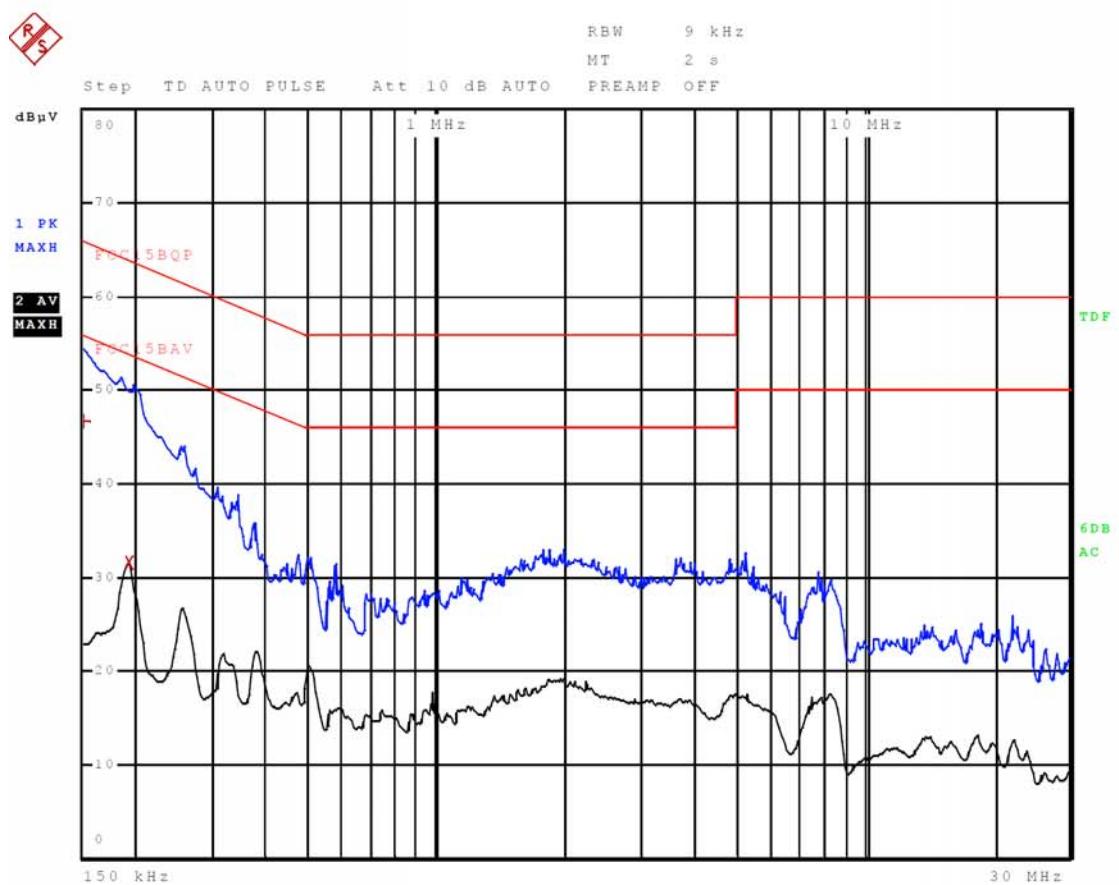
Scan Start: 150 kHz

Scan Stop: 30 MHz

Detector: Trace 1: MAX PEAK Trace 2: Average

Transducer: ESH2-Z5

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	50 ms	Auto	0 dB	INPUT2





**Meas Type** CONDUCTED EMISSION

**Equipment under Test** Weather Station USB Key

**Manufacturer** GOAP d.o.o.

**OP Condition** CH1, Max Power

**Operator** Andrej Skof

**Test Spec**

NEUTRAL, 120 V/ 60 Hz

**Final Measurement**

Meas Time: 2 s

Margin: 35 dB

Subranges: 2

Trace	Frequency	Level (dB $\mu$ V)	Detector	Delta Limit/dB
1	150.000000000 kHz	46.61	Quasi Peak	-19.39
2	190.500000000 kHz	31.46	CISPR Averag	-22.55



Meas Type CONDUCTED EMISSION

Equipment under Test Weather Station USB Key

Manufacturer GOAP d.o.o.

OP Condition CH0, Max Power

Operator Andrej Skof

**Test Spec**

PHASE, 240 V/ 50 Hz

**Time Domain Scan (1 Range)**

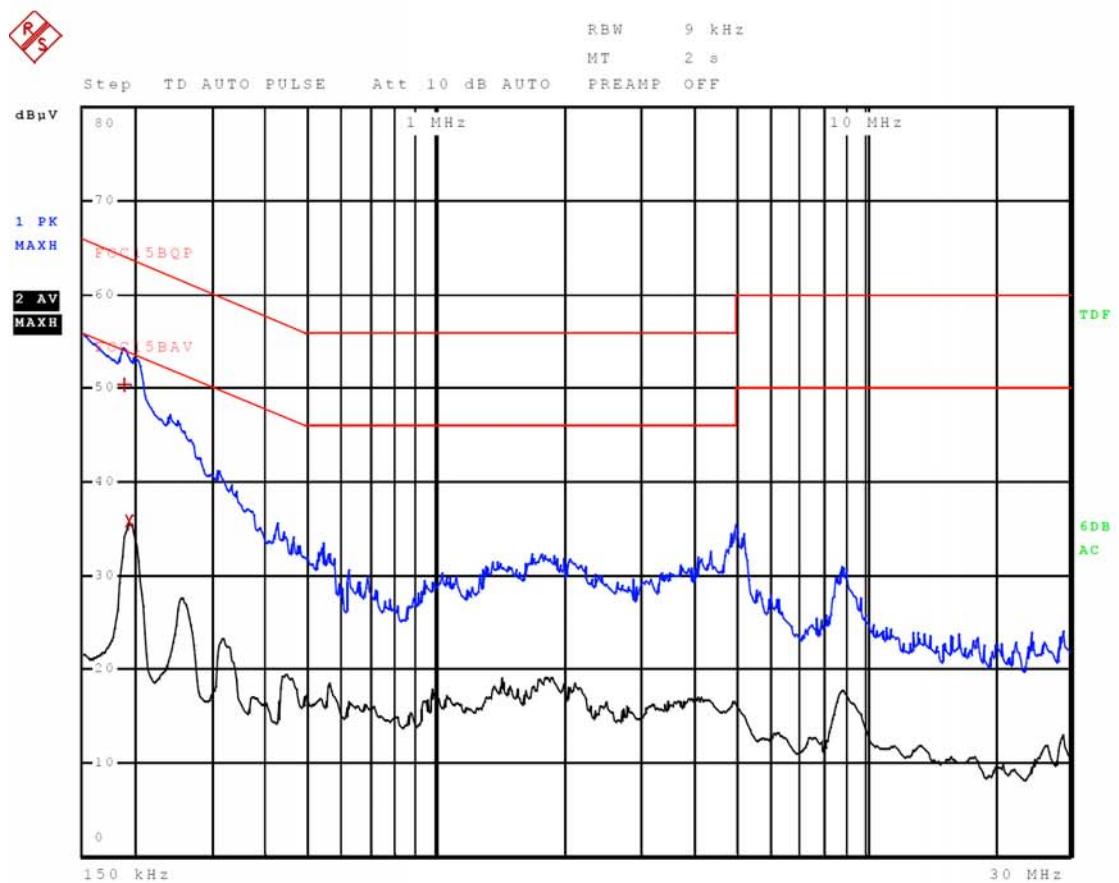
Scan Start: 150 kHz

Scan Stop: 30 MHz

Detector: Trace 1: MAX PEAK Trace 2: Average

Transducer: ESH2-Z5

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	50 ms	Auto	0 dB	INPUT2



**Meas Type** CONDUCTED EMISSION**Equipment under Test** Weather Station USB Key**Manufacturer** GOAP d.o.o.**OP Condition** CH0, Max Power**Operator** Andrej Skof**Test Spec**

PHASE, 240 V/ 50 Hz

**Final Measurement**

Meas Time: 2 s

Margin: 35 dB

Subranges: 2

Trace	Frequency	Level (dB $\mu$ V)	Detector	Delta Limit/dB
1	186.000000000 kHz	50.32	Quasi Peak	-13.89
2	192.750000000 kHz	35.78	CISPR Averag	-18.13



ROHDE &amp; SCHWARZ

Meas Type CONDUCTED EMISSION

Equipment under Test Weather Station USB Key

Manufacturer GOAP d.o.o.

OP Condition CH0, Max Power

Operator Andrej Skof

**Test Spec**

NEUTRAL, 240 V/ 50 Hz

**Time Domain Scan (1 Range)**

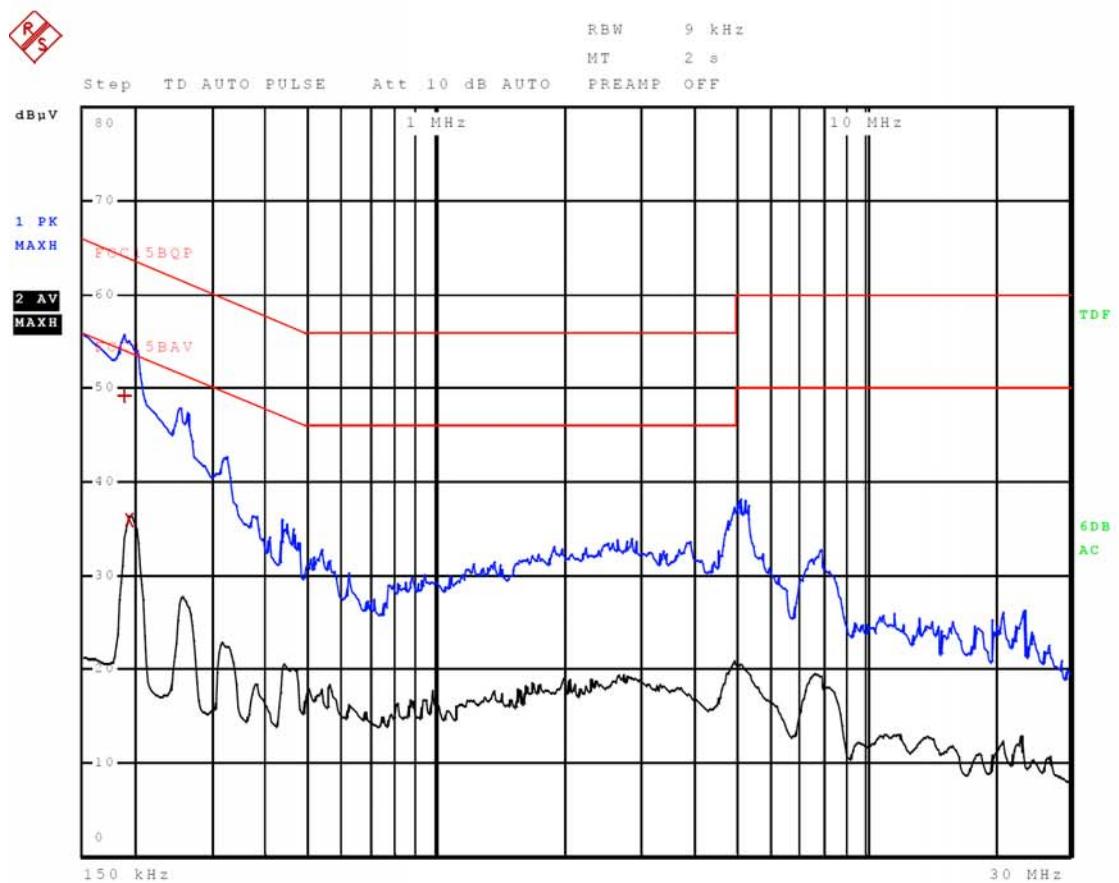
Scan Start: 150 kHz

Scan Stop: 30 MHz

Detector: Trace 1: MAX PEAK Trace 2: Average

Transducer: ESH2-Z5

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	50 ms	Auto	0 dB	INPUT2



**Meas Type** CONDUCTED EMISSION**Equipment under Test** Weather Station USB Key**Manufacturer** GOAP d.o.o.**OP Condition** CH0, Max Power**Operator** Andrej Skof**Test Spec**

NEUTRAL, 240 V/ 50 Hz

**Final Measurement**

Meas Time: 2 s

Margin: 35 dB

Subranges: 2

Trace	Frequency	Level (dB $\mu$ V)	Detector	Delta Limit/dB
1	186.000000000 kHz	49.20	Quasi Peak	-15.01
2	190.500000000 kHz	35.92	CISPR Averag	-18.09

## 7.2 Radiated emission measurement (intentional radiator)

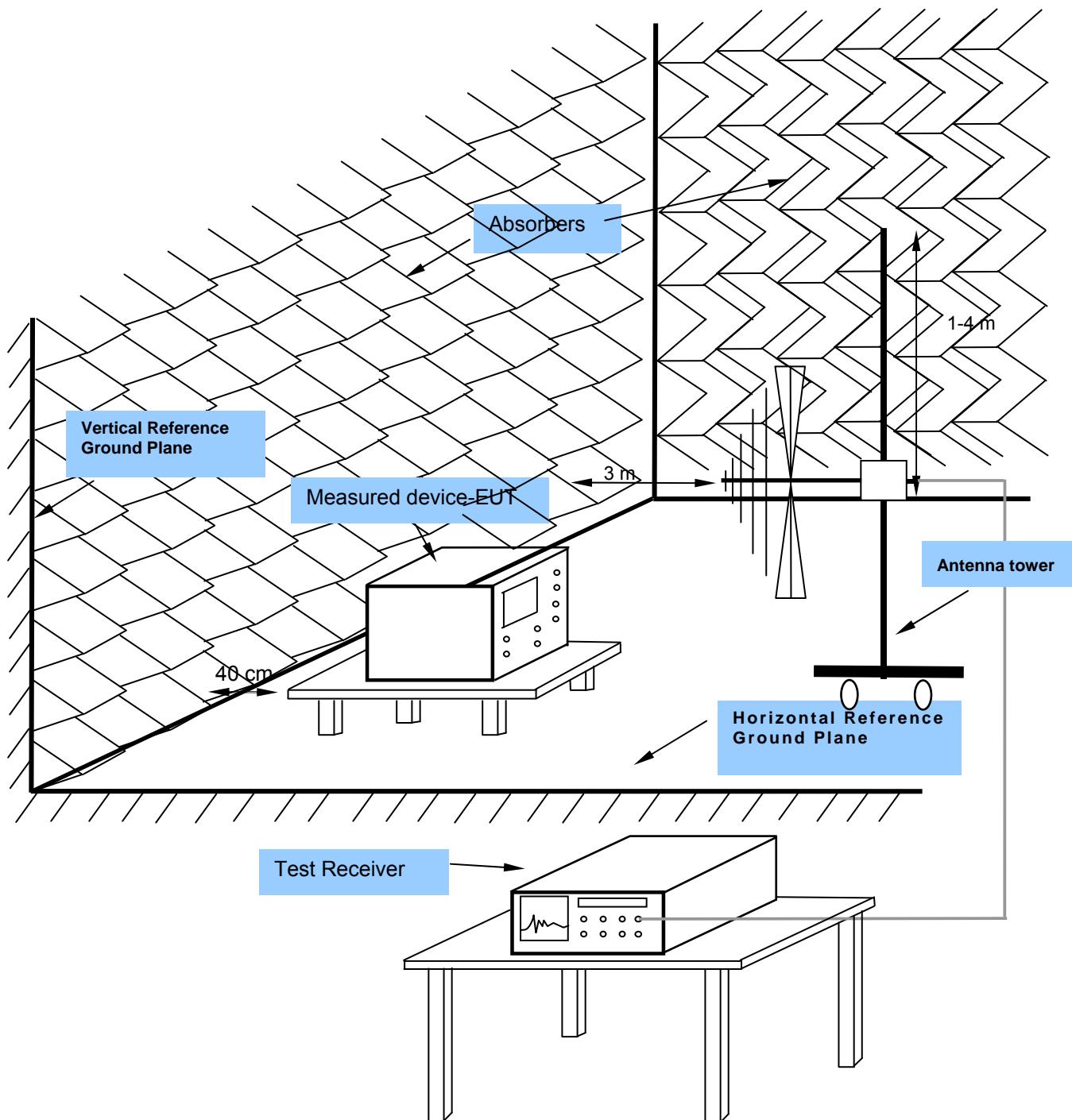
### 7.2.1 Test instruments

Description & Manufacturer	Model No.	SIQ No.	Last calibration	Calibrated until	Calibration period	Used
ETS, Anechoic chamber	3m	103949	2014-11	2016-11	24 months	X
Rohde-Schwarz, RFI receiver	ESU8	105187	2015-11	2017-11	24 months	
Rohde-Schwarz, RFI receiver	ESU26	100428	2016-02	2018-02	24 months	X
R&S, Antenna	HFH2-Z2	/	2015-09	2017-09	24 months	X
EMCO, Antenna	3142B	104351	2015-09	2017-09	24 months	X
EMCO, Antenna	3115	103002	2015-09	2017-09	24 months	X
Heinrich Deisel, Turn table	DS 420.00	103337	NA	NA	NA	X
Antenna tower	/	/	NA	NA	NA	X
Controller for turn table and antenna tower	/	/	NA	NA	NA	X

### 7.2.2 Test procedure

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground in an Anechoic Chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 m away from the interference-receiving antenna, which was mounted on the top of variable-height antenna tower.
3. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to PEAK and QUAS-PEAK Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. The highest points would be re-tested one by one using the quasi-peak method.

### 7.2.3 Test setup



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

### 7.2.4 Test result (15.209)

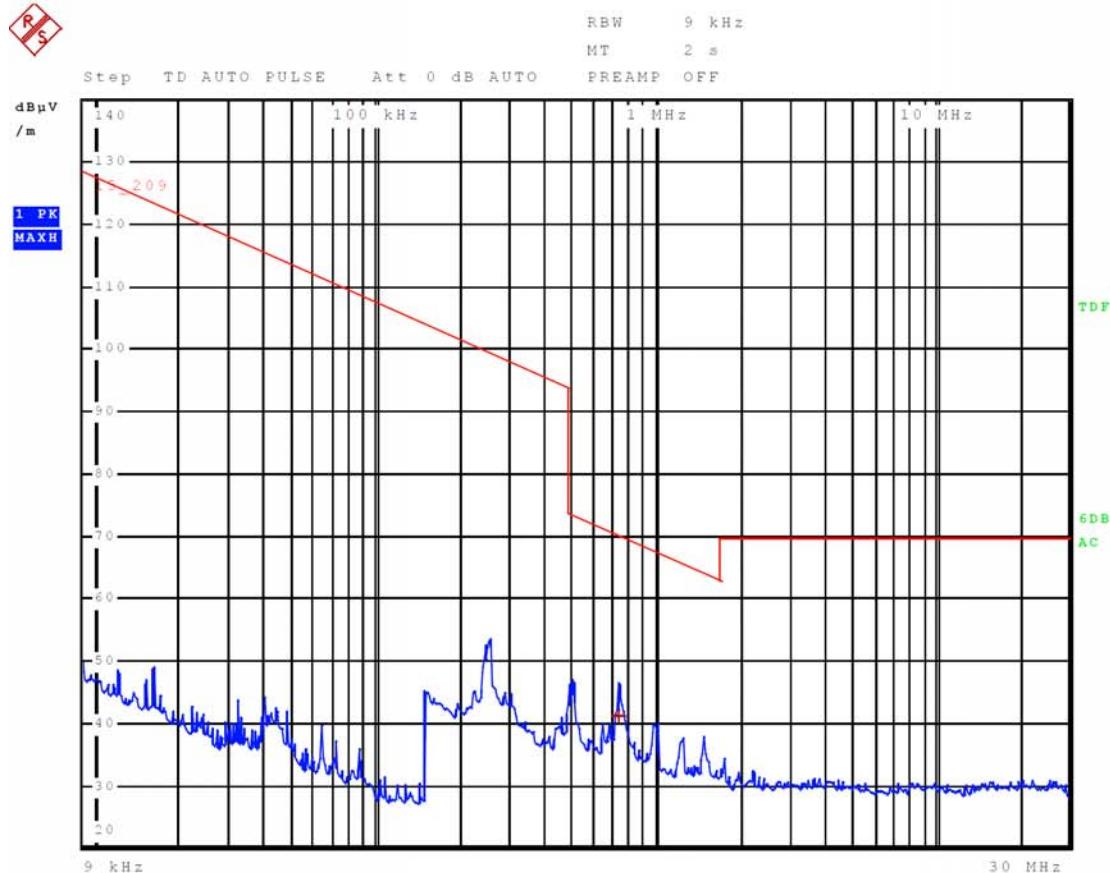


**Meas Type** RADIATED EMISSION  
**Equipment under Test** Weather Station USB Key  
**Manufacturer** GOAP d.o.o.  
**OP Condition** CH0, Max Power  
**Operator** Andrej Skof  
**Test Spec**  
 Antenna: 0 deg, Sample: 0 deg

#### Time Domain Scan (2 Ranges)

Scan Start: 9 kHz  
 Scan Stop: 30 MHz  
 Detector: Trace 1: MAX PEAK  
 Transducer: HFH2-Z2V

Start Frequency	Stop Frequency	Step Size	Meas BW	RF Atten	Preamplifier	Input	
9.000000 kHz	149.950000 kHz	50.00 Hz	200.00 Hz	300 ms	Auto	0 dB	INPUT2
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	50 ms	Auto	0 dB	INPUT2





**Meas Type** RADIATED EMISSION  
**Equipment under Test** Weather Station USB Key  
**Manufacturer** GOAP d.o.o.  
**OP Condition** CH0, Max Power  
**Operator** Andrej Skof

**Test Spec**

Antenna: 0 deg, Sample: 0 deg

**Final Measurement**

Meas Time: 2 s  
Margin: 35 dB  
Subranges: 1

Trace	Frequency	Level (dB $\mu$ V/m)	Detector	Delta Limit/dB
1	739.500000000 kHz	41.13	Quasi Peak	-29.11



ROHDE &amp; SCHWARZ

**Meas Type** RADIATED EMISSION  
**Equipment under Test** Weather Station USB Key  
**Manufacturer** GOAP d.o.o.  
**OP Condition** CH1, Max Power  
**Operator** Andrej Skof

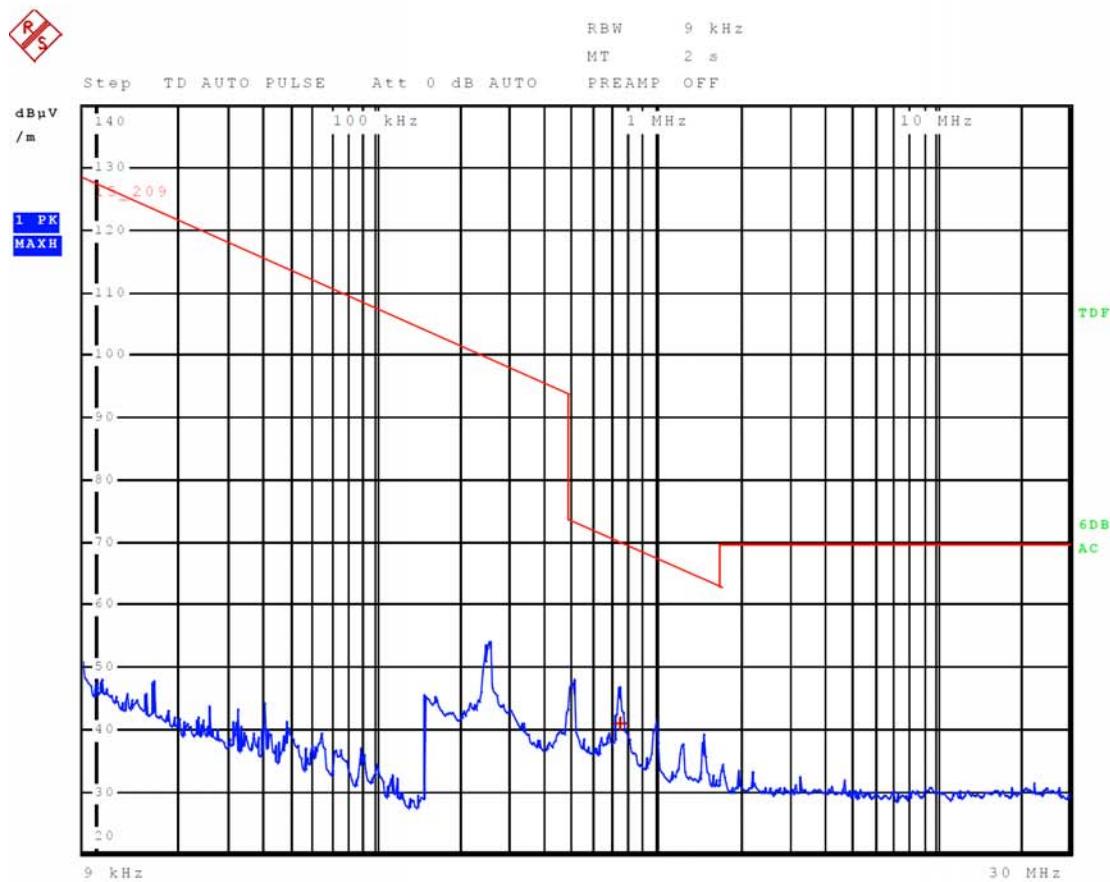
**Test Spec**

Antenna: 0 deg, Sample: 0 deg

**Time Domain Scan (2 Ranges)**

Scan Start: 9 kHz  
 Scan Stop: 30 MHz  
 Detector: Trace 1: MAX PEAK  
 Transducer: HFH2-Z2V

Start Frequency	Stop Frequency	Step Size	Meas Time	RF Atten	Preamp	Input
9.000000 kHz	149.950000 kHz	50.00 Hz	200.00 Hz	300 ms	Auto	0 dB
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	50 ms	Auto	0 dB





**Meas Type** RADIATED EMISSION  
**Equipment under Test** Weather Station USB Key  
**Manufacturer** GOAP d.o.o.  
**OP Condition** CH1, Max Power  
**Operator** Andrej Skof

**Test Spec**

Antenna: 0 deg, Sample: 0 deg

**Final Measurement**

Meas Time: 2 s  
Margin: 25 dB  
Subranges: 1

Trace	Frequency	Level (dB $\mu$ V/m)	Detector	Delta Limit/dB
1	741.750000000 kHz	40.85	Quasi Peak	-29.36



**Meas Type** RADIATED EMISSION  
**Equipment under Test** Weather station USB key  
**Manufacturer** GOAP d.o.o.  
**OP Condition** CH0, Max power  
**Operator** Andrej Skof

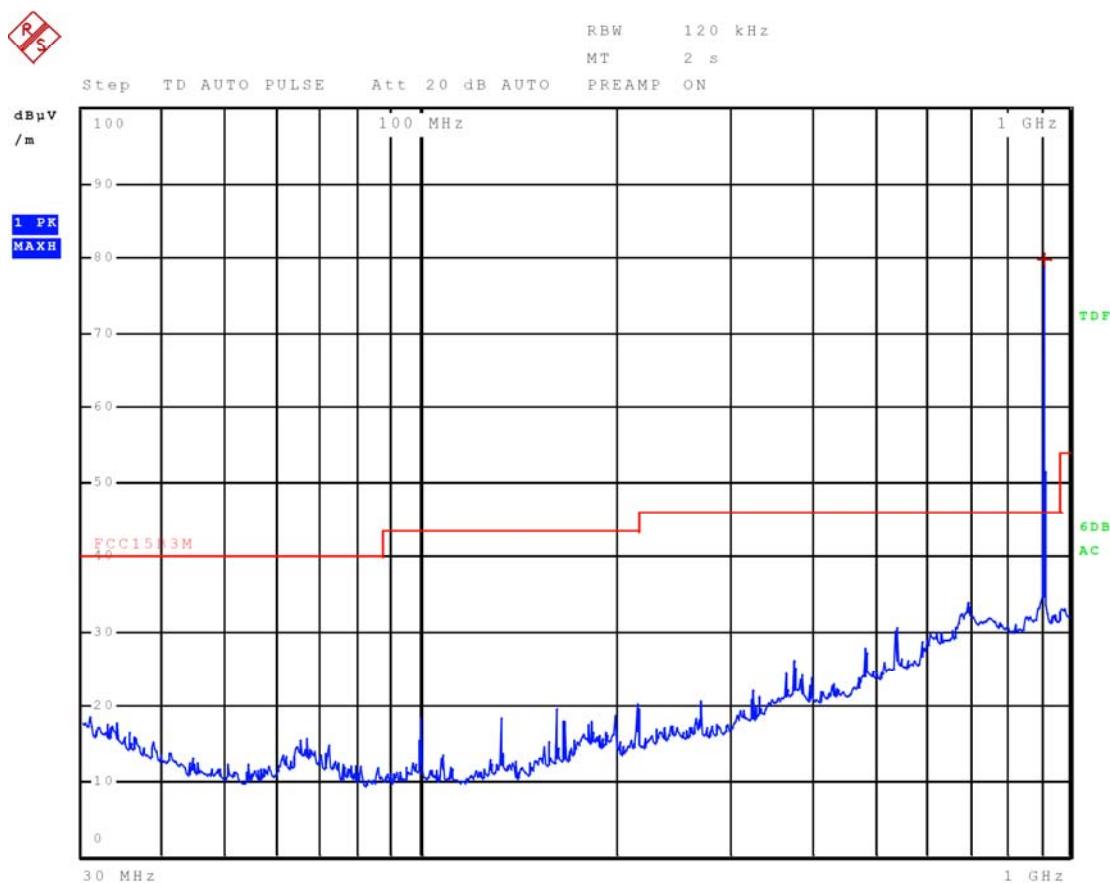
**Test Spec**

VERTICAL 100 cm, 0 deg

**Time Domain Scan (1 Range)**

Scan Start: 30 MHz  
 Scan Stop: 1 GHz  
 Detector: Trace 1: MAX PEAK  
 Transducer: 3142B3m

Start Frequency	Stop Frequency	Step Size	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz 1 ms	Auto	20 dB	INPUT2





**Meas Type** RADIATED EMISSION  
**Equipment under Test** Weather station USB key  
**Manufacturer** GOAP d.o.o.  
**OP Condition** CH0, Max power  
**Operator** Andrej Skof  
**Test Spec**  
VERTICAL 100 cm, 0 deg

#### Final Measurement

Meas Time: 2 s  
Margin: 10 dB  
Peaks: 1

Trace	Frequency	Level (dB $\mu$ V/m)	Detector	Delta Limit/dB
1	915.960000000 MHz	79.78	Quasi Peak	33.78

**NOTE: Carrier frequency 915.96 MHz is excluded from the general radiated emission limit.**



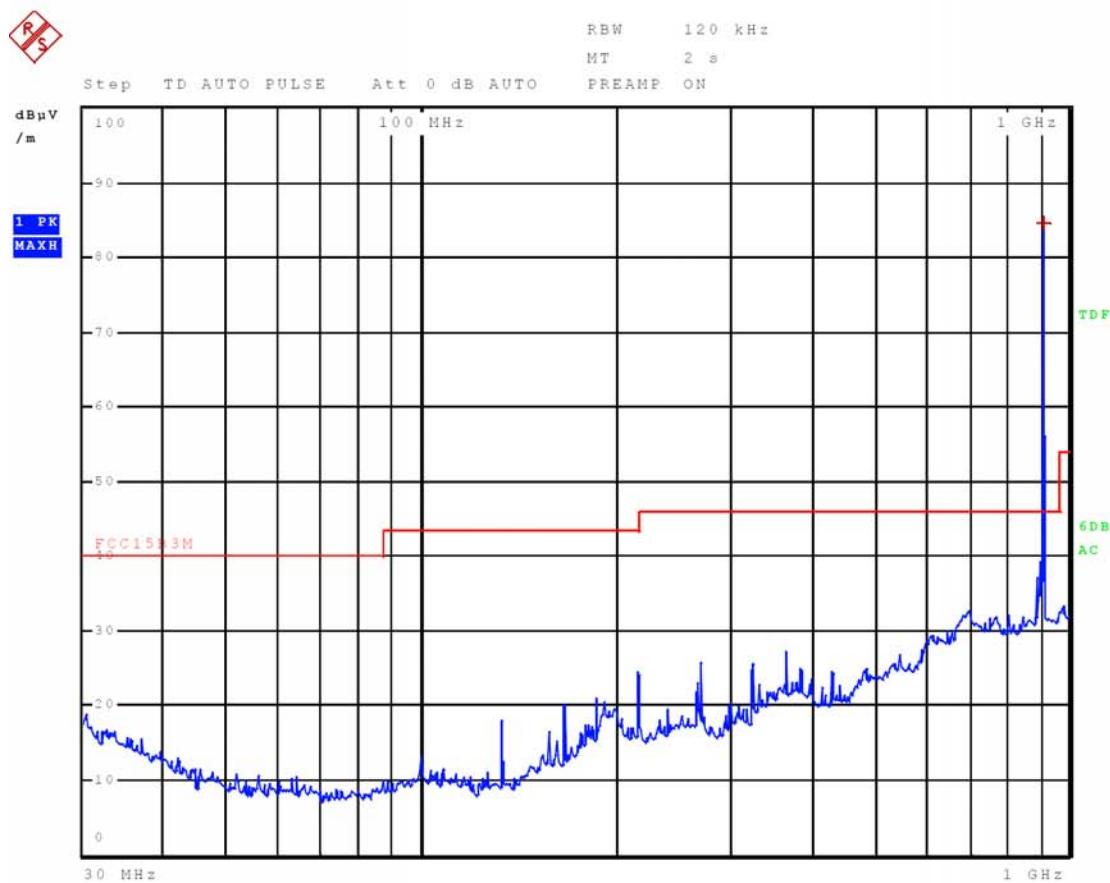
ROHDE &amp; SCHWARZ

**Meas Type** RADIATED EMISSION  
**Equipment under Test** Weather station USB key  
**Manufacturer** GOAP d.o.o.  
**OP Condition** CH0, Max power  
**Operator** Andrej Skof  
**Test Spec**  
 HORIZONTAL 100 cm, 0 deg

### Time Domain Scan (1 Range)

Scan Start: 30 MHz  
 Scan Stop: 1 GHz  
 Detector: Trace 1: MAX PEAK  
 Transducer: 3142B3m

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	1 ms	Auto	20 dB	INPUT2





**Meas Type** RADIATED EMISSION  
**Equipment under Test** Weather station USB key  
**Manufacturer** GOAP d.o.o.  
**OP Condition** CH0, Max power  
**Operator** Andrej Skof

**Test Spec**

HORIZONTAL 100 cm, 0 deg

**Final Measurement**

Meas Time: 2 s  
Margin: 10 dB  
Peaks: 1

Trace	Frequency	Level (dB $\mu$ V/m)	Detector	Delta Limit/dB
1	915.960000000 MHz	84.62	Quasi Peak	38.62

**NOTE: Carrier frequency 915.96 MHz is excluded from the general radiated emission limit.**



ROHDE &amp; SCHWARZ

**Meas Type** RADIATED EMISSION  
**Equipment under Test** Weather station USB key  
**Manufacturer** GOAP d.o.o.  
**OP Condition** CH0, Max power  
**Operator** Andrej Skof

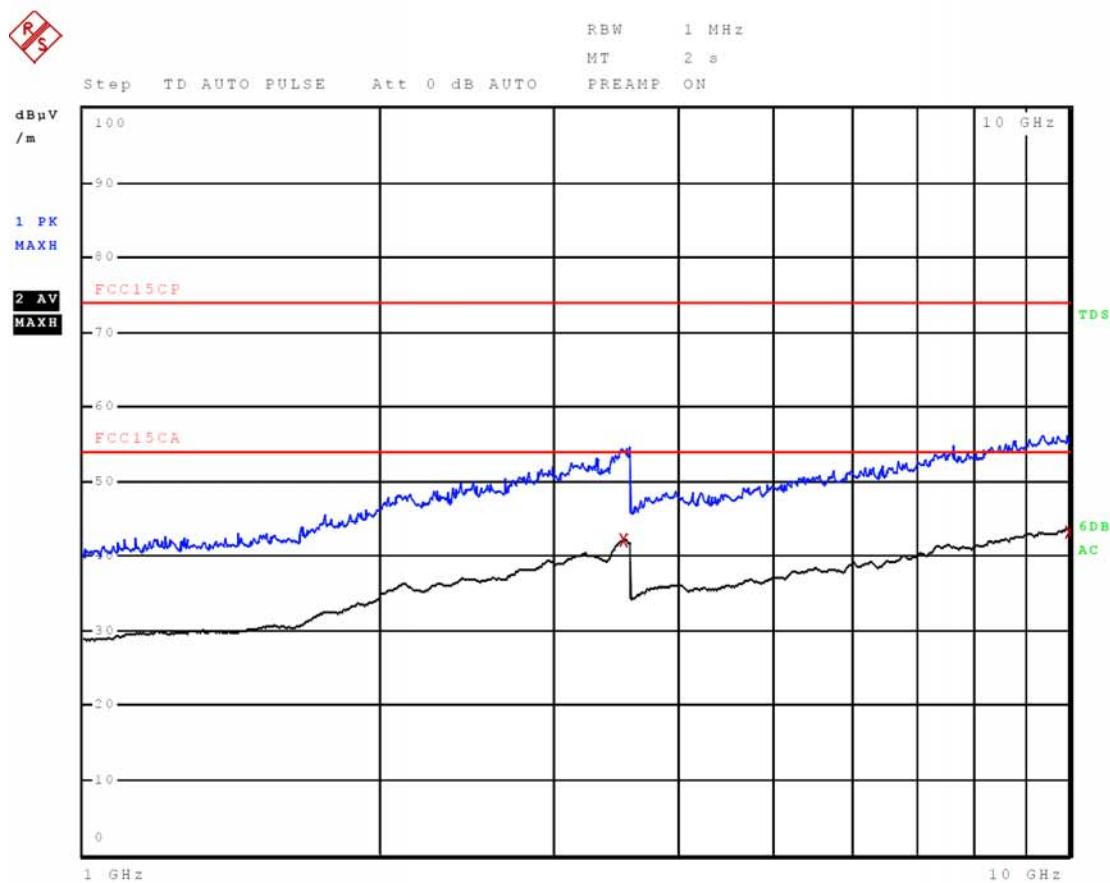
**Test Spec**

VERTICAL 100 cm, 0 deg

**Time Domain Scan (1 Range)**

**Scan Start:** 1 GHz  
**Scan Stop:** 10 GHz  
**Detector:** Trace 1: MAX PEAK Trace 2: Average  
**Transducer:** RE-18GHz

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	10.000000 GHz	250.00 kHz	1.00 MHz	1 ms	Auto	35 dB	INPUT1





**Meas Type** RADIATED EMISSION  
**Equipment under Test** Weather station USB key  
**Manufacturer** GOAP d.o.o.  
**OP Condition** CH0, Max power  
**Operator** Andrej Skof

**Test Spec**

VERTICAL 100 cm, 0 deg

**Final Measurement**

Meas Time: 2 s  
Margin: 15 dB  
Peaks: 2

Trace	Frequency	Level (dB $\mu$ V/m)	Detector	Delta Limit/dB
2	9.990750000 GHz	43.12	Average	-10.88
2	3.536500000 GHz	42.09	Average	-11.91



ROHDE &amp; SCHWARZ

**Meas Type** RADIATED EMISSION  
**Equipment under Test** Weather station USB key  
**Manufacturer** GOAP d.o.o.  
**OP Condition** CH0, Max power  
**Operator** Andrej Skof

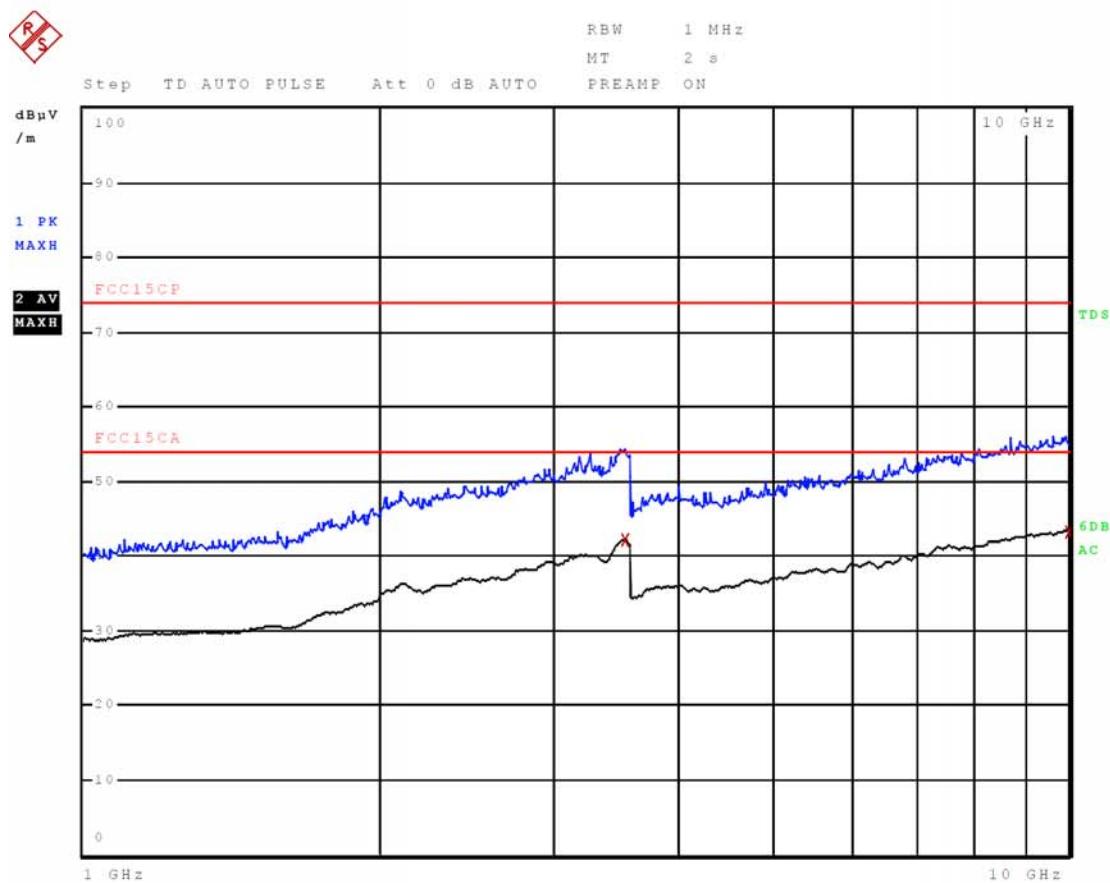
**Test Spec**

HORIZONTAL 100 cm, 0 deg

**Time Domain Scan (1 Range)**

**Scan Start:** 1 GHz  
**Scan Stop:** 10 GHz  
**Detector:** Trace 1: MAX PEAK Trace 2: Average  
**Transducer:** RE-18GHz

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	10.000000 GHz	250.00 kHz	1.00 MHz	1 ms	Auto	35 dB	INPUT1





**Meas Type** RADIATED EMISSION

**Equipment under Test** Weather station USB key

**Manufacturer** GOAP d.o.o.

**OP Condition** CH0, Max power

**Operator** Andrej Skof

**Test Spec**

HORIZONTAL 100 cm, 0 deg

**Final Measurement**

Meas Time: 2 s

Margin: 15 dB

Peaks: 2

Trace	Frequency	Level (dB $\mu$ V/m)	Detector	Delta Limit/dB
2	9.985750000 GHz	43.18	Average	-10.82
2	3.549250000 GHz	42.09	Average	-11.91



ROHDE &amp; SCHWARZ

**Meas Type** RADIATED EMISSION  
**Equipment under Test** Weather station USB key  
**Manufacturer** GOAP d.o.o.  
**OP Condition** CH1, Max power  
**Operator** Andrej Skof

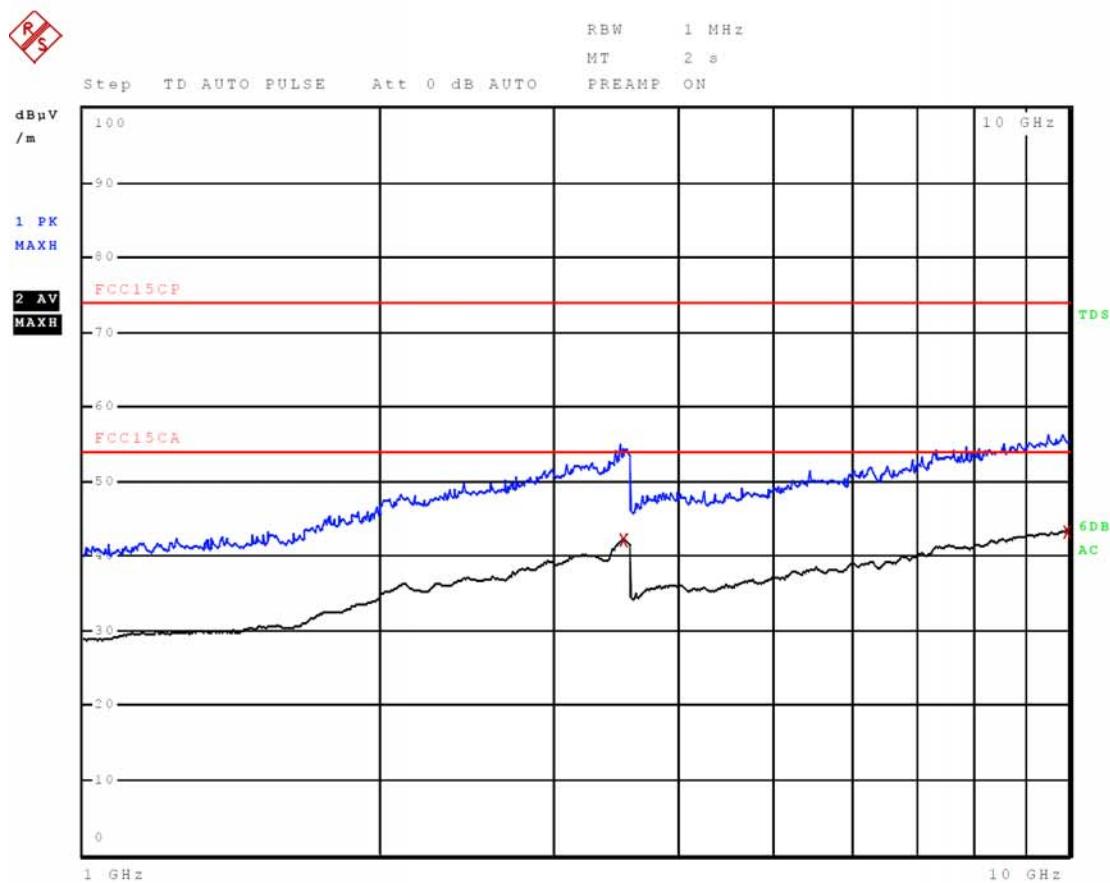
**Test Spec**

VERTICAL 100 cm, 0 deg

**Time Domain Scan (1 Range)**

**Scan Start:** 1 GHz  
**Scan Stop:** 10 GHz  
**Detector:** Trace 1: MAX PEAK Trace 2: Average  
**Transducer:** RE-18GHz

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	10.000000 GHz	250.00 kHz	1.00 MHz	1 ms	Auto	35 dB	INPUT1





**Meas Type** RADIATED EMISSION  
**Equipment under Test** Weather station USB key  
**Manufacturer** GOAP d.o.o.  
**OP Condition** CH1, Max power  
**Operator** Andrej Skof

**Test Spec**

VERTICAL 100 cm, 0 deg

**Final Measurement**

Meas Time: 2 s  
Margin: 15 dB  
Peaks: 2

Trace	Frequency	Level (dB $\mu$ V/m)	Detector	Delta Limit/dB
2	9.946250000 GHz	43.11	Average	-10.89
2	3.537250000 GHz	42.09	Average	-11.91


**ROHDE & SCHWARZ**

**Meas Type** RADIATED EMISSION  
**Equipment under Test** Weather station USB key  
**Manufacturer** GOAP d.o.o.  
**OP Condition** CH1, Max power  
**Operator** Andrej Skof

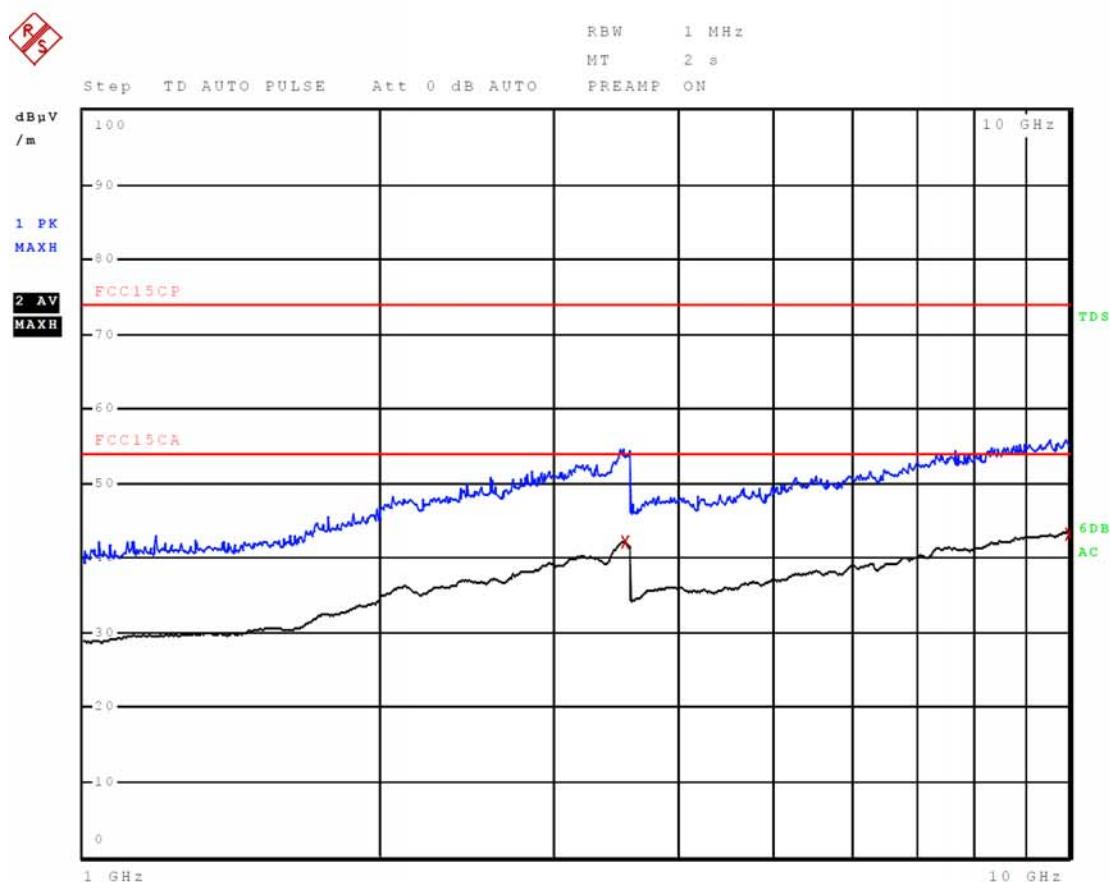
**Test Spec**

HORIZONTAL 100 cm, 0 deg

**Time Domain Scan (1 Range)**

Scan Start: 1 GHz  
 Scan Stop: 10 GHz  
 Detector: Trace 1: MAX PEAK Trace 2: Average  
 Transducer: RE-18GHz

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	10.000000 GHz	250.00 kHz	1.00 MHz	1 ms	Auto	35 dB	INPUT1





**Meas Type** RADIATED EMISSION  
**Equipment under Test** Weather station USB key  
**Manufacturer** GOAP d.o.o.  
**OP Condition** CH1, Max power  
**Operator** Andrej Skof

**Test Spec**

HORIZONTAL 100 cm, 0 deg

**Final Measurement**

Meas Time: 2 s  
Margin: 15 dB  
Peaks: 2

Trace	Frequency	Level (dB $\mu$ V/m)	Detector	Delta Limit/dB
2	9.983500000 GHz	43.21	Average	-10.79
2	3.540500000 GHz	42.08	Average	-11.92

### 7.2.5 Test result (15.215)



**C20161245**

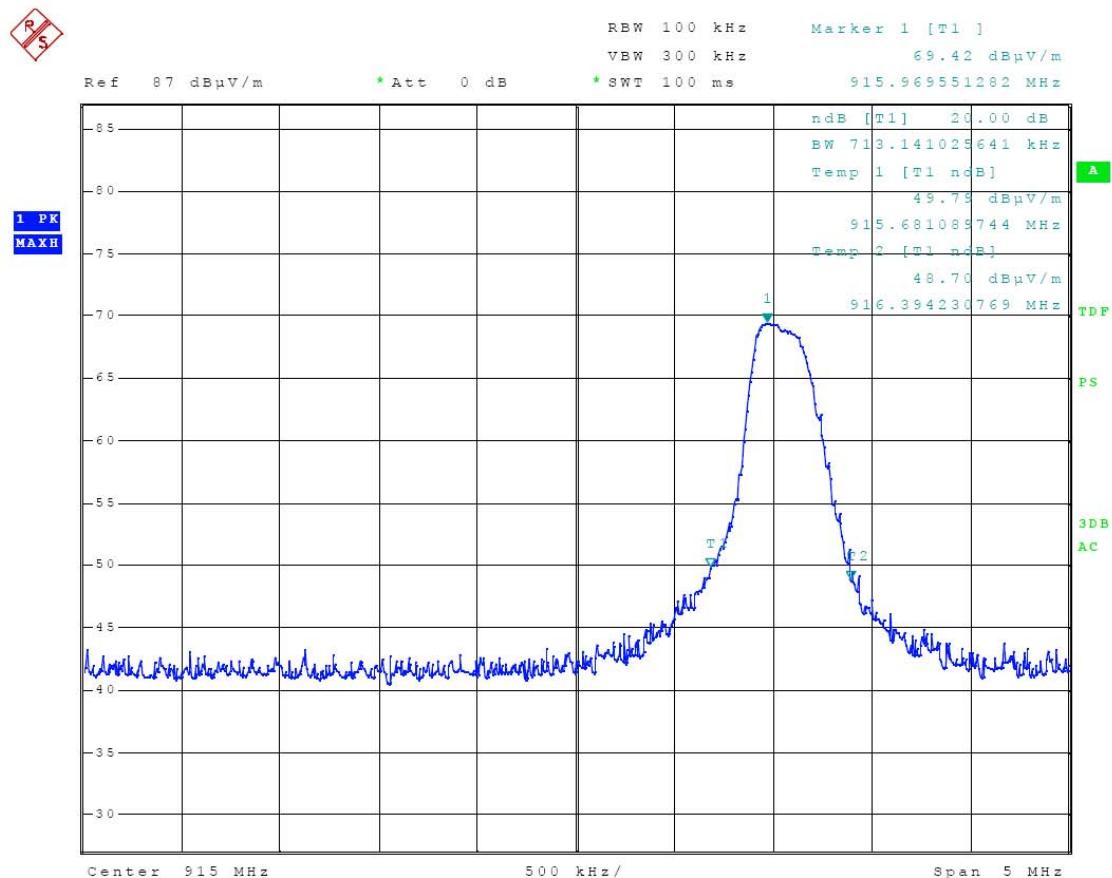
**Meas Type** BANDWIDTH OF EMISSION  
**Equipment under Test** Weather station USB key  
**Manufacturer** GOAP d.o.o.  
**OP Condition** CH0, Max Power  
**Operator** Andrej Skof

**Test Spec**

VERTICAL 100 cm, 0 deg

**Sweep Settings** **Screen A**

Center Frequency	915.000000 MHz	Ref Level	87.000 dB $\mu$ V/m
Frequency Offset	0.000000 Hz	Ref Level Offset	0.000 dB
Span	5.000000 MHz	Ref Position	100.000 %
Start Frequency	912.500000 MHz	Level Range	60.000 dB
Stop Frequency	917.500000 MHz	RF Att	0.000 dB
RBW	100.000000 kHz	X-Axis	LIN
VBW	300.000000 kHz	Y-Axis	LOG
Sweep Time	100.00 ms		

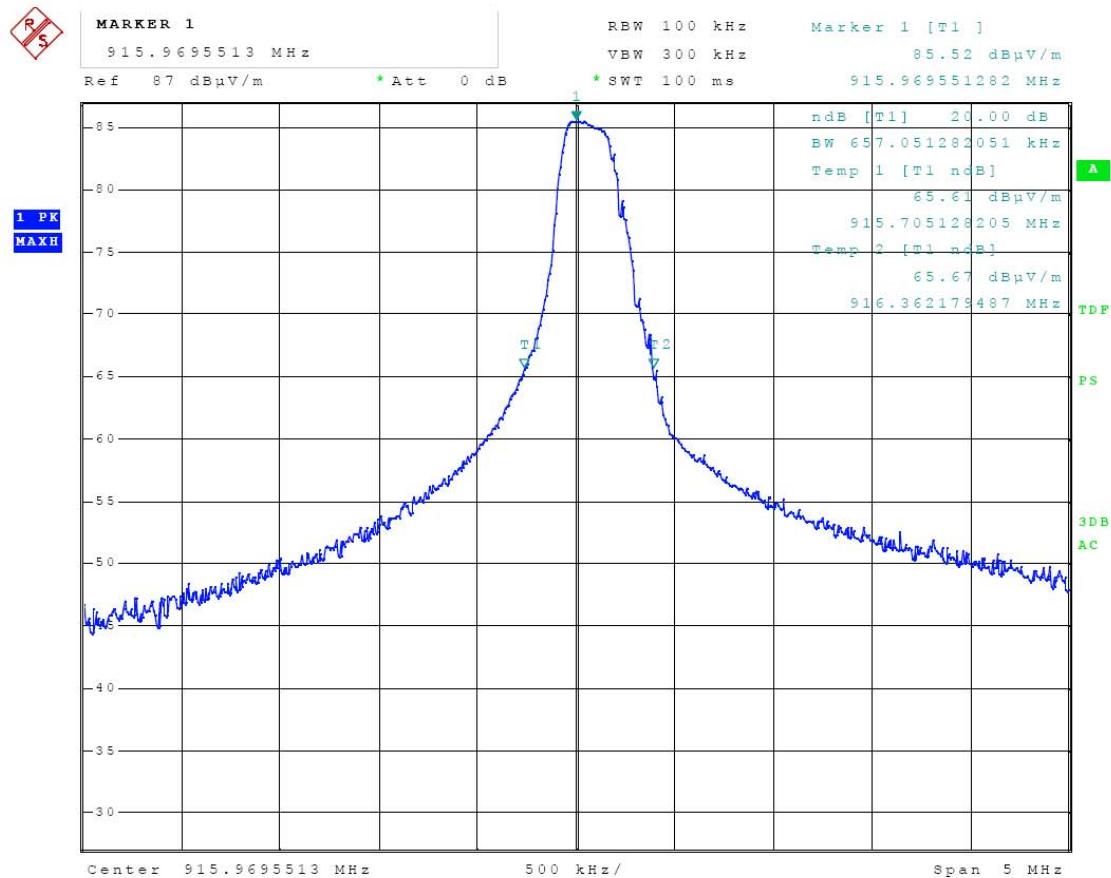


**C20161245****Meas Type** BANDWIDTH OF EMISSION**Equipment under Test** Weather station USB key**Manufacturer** GOAP d.o.o.**OP Condition** CH0, Max Power**Operator** Andrej Skof**Test Spec**

HORIZONTAL 100 cm, 0 deg

**Sweep Settings** **Screen A**

Center Frequency	915.969551 MHz	Ref Level	87.000 dB $\mu$ V/m
Frequency Offset	0.000000 Hz	Ref Level Offset	0.000 dB
Span	5.000000 MHz	Ref Position	100.000 %
Start Frequency	913.469551 MHz	Level Range	60.000 dB
Stop Frequency	918.469551 MHz	RF Att	0.000 dB
RBW	100.000000 kHz	X-Axis	LIN
VBW	300.000000 kHz	Y-Axis	LOG
Sweep Time	100.00 ms		





C20161245

Meas Type BANDWIDTH OF EMISSION

Equipment under Test Weather station USB key

Manufacturer GOAP d.o.o.

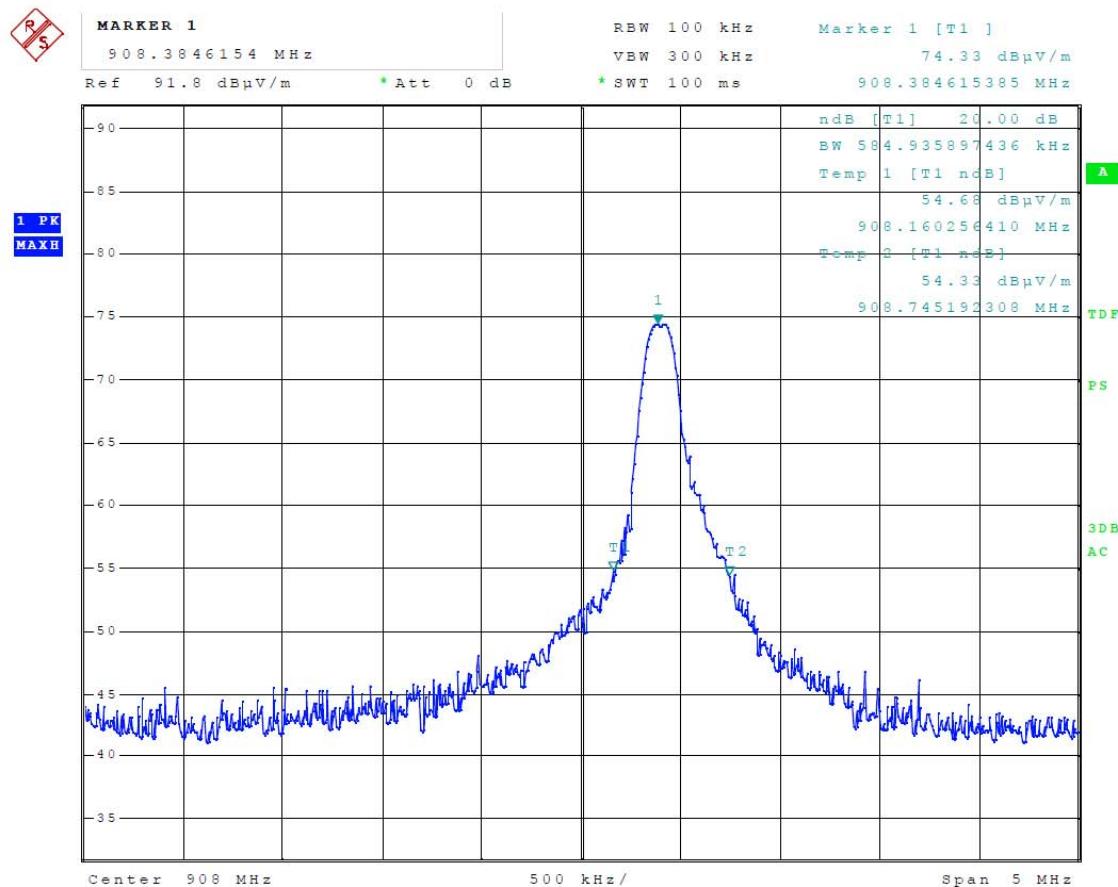
OP Condition CH1, Max Power

Operator Andrej Skof

Test Spec

VERTICAL 100 cm, 0 deg

Sweep Settings	Screen A		
Center Frequency	908.000000 MHz	Ref Level	91.800 dB $\mu$ V/m
Frequency Offset	0.000000 Hz	Ref Level Offset	0.000 dB
Span	5.000000 MHz	Ref Position	100.000 %
Start Frequency	905.500000 MHz	Level Range	60.000 dB
Stop Frequency	910.500000 MHz	RF Att	0.000 dB
RBW	100.000000 kHz	X-Axis	LIN
VBW	300.000000 kHz	Y-Axis	LOG
Sweep Time	100.00 ms		

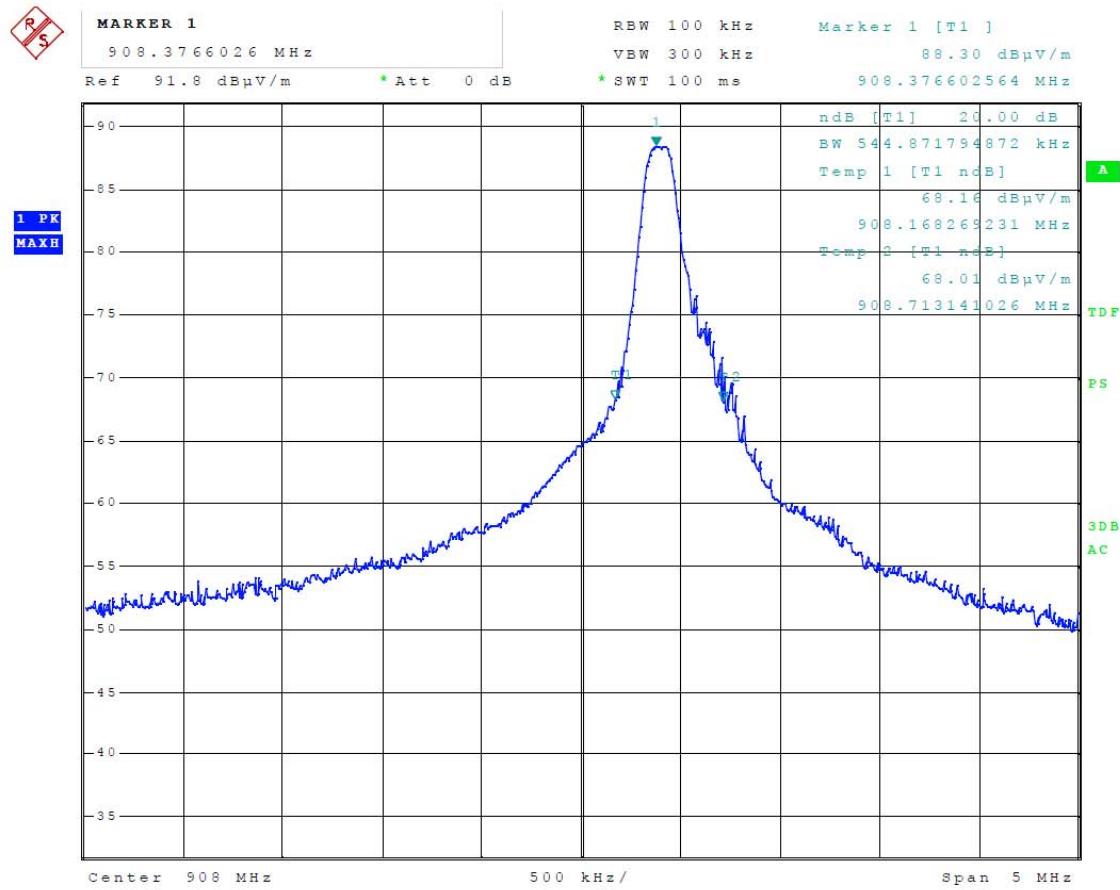


**C20161245****Meas Type** BANDWIDTH OF EMISSION**Equipment under Test** Weather station USB Key**Manufacturer** GOAP d.o.o.**OP Condition** CH1, Max Power**Operator** Andrej Skof**Test Spec**

HORIZONTAL 100 cm, 0 deg

**Sweep Settings** **Screen A**

Center Frequency	908.000000 MHz	Ref Level	91.800 dB $\mu$ V/m
Frequency Offset	0.000000 Hz	Ref Level Offset	0.000 dB
Span	5.000000 MHz	Ref Position	100.000 %
Start Frequency	905.500000 MHz	Level Range	60.000 dB
Stop Frequency	910.500000 MHz	RF Att	0.000 dB
RBW	100.000000 kHz		
VBW	300.000000 kHz	X-Axis	LIN
Sweep Time	100.00 ms	Y-Axis	LOG



**Tabulated results:**

Channel	Frequency (MHz)	Frequency at 20 dB BW closest to Band Edge (MHz)	Delta to Band Edge (MHz)
1 (Lo)	908,37	908,16	6,16
0 (Hi)	915,96	916,39	11,61

## 7.2.6 Test result (15.249)

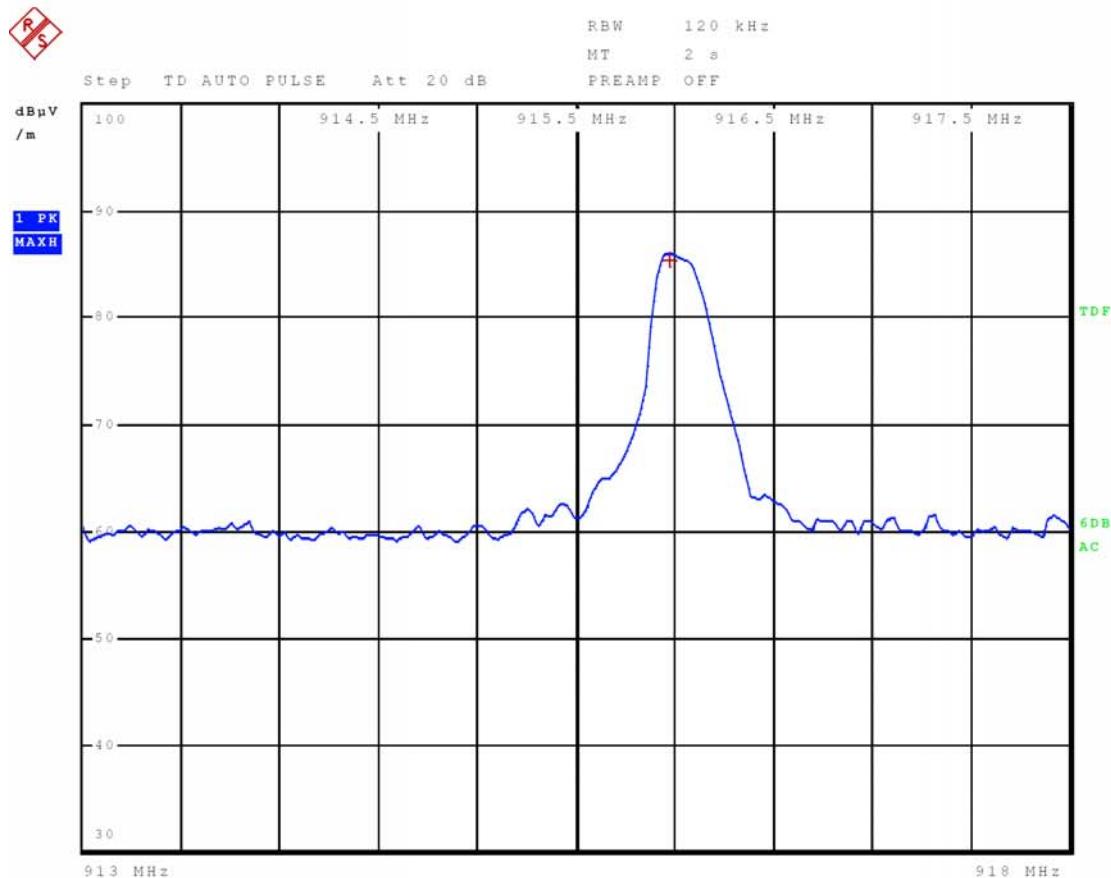


Meas Type EMISSION OF THE CARRIER  
Equipment under Test Weather station USB key  
Manufacturer GOAP d.o.o.  
OP Condition CH0, Max power  
Operator Andrej Skof  
Test Spec  
VERTICAL 112 cm, 140 deg

### Time Domain Scan (1 Range)

Scan Start: 913 MHz  
Scan Stop: 918 MHz  
Detector: Trace 1: MAX PEAK  
Transducer: 3142B3m

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
913.000000 MHz	918.000000 MHz	30.00 kHz	120.00 kHz	1 ms	20 dB	0 dB	INPUT2



**Meas Type** EMISSION OF THE CARRIER**Equipment under Test** Weather station USB key**Manufacturer** GOAP d.o.o.**OP Condition** CH0, Max power**Operator** Andrej Skof**Test Spec**

VERTICAL 112 cm, 140 deg

**Final Measurement**

Meas Time: 2 s

Margin: 10 dB

Peaks: 1

Trace	Frequency	Level (dB $\mu$ V/m)	Detector	Delta Limit/dB
1	915.970000000 MHz	85.43	Quasi Peak	

**Meas Type** EMISSION OF THE CARRIER**Equipment under Test** Weather station USB key**Manufacturer** GOAP d.o.o.**OP Condition** CH0, Max power**Operator** Andrej Skof**Test Spec**

HORIZONTAL 100 cm, 33 deg

**Time Domain Scan (1 Range)**

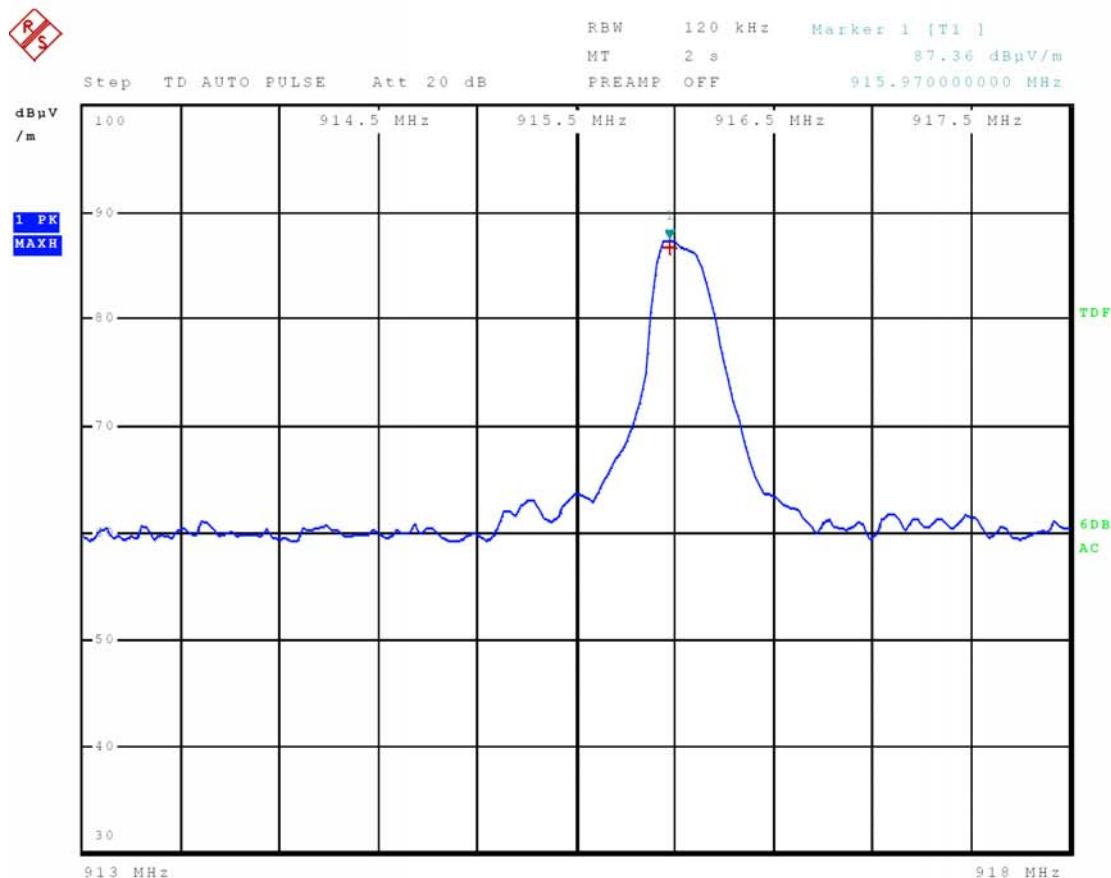
Scan Start: 913 MHz

Scan Stop: 918 MHz

Detector: Trace 1: MAX PEAK

Transducer: 3142B3m

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
913.000000 MHz	918.000000 MHz	30.00 kHz	120.00 kHz	1 ms	20 dB	0 dB	INPUT2





**Meas Type** EMISSION OF THE CARRIER

**Equipment under Test** Weather station USB key

**Manufacturer** GOAP d.o.o.

**OP Condition** CH0, Max power

**Operator** Andrej Skof

**Test Spec**

HORIZONTAL 100 cm, 33 deg

**Final Measurement**

Meas Time: 2 s

Margin: 10 dB

Peaks: 1

Trace	Frequency	Level (dB $\mu$ V/m)	Detector	Delta Limit/dB
1	915.970000000 MHz	86.75	Quasi Peak	

**Meas Type** EMISSION OF THE CARRIER**Equipment under Test** Weather station USB key**Manufacturer** GOAP d.o.o.**OP Condition** CH1, Max power**Operator** Andrej Skof**Test Spec**

VERTICAL 112 cm, 140 deg

**Time Domain Scan (1 Range)**

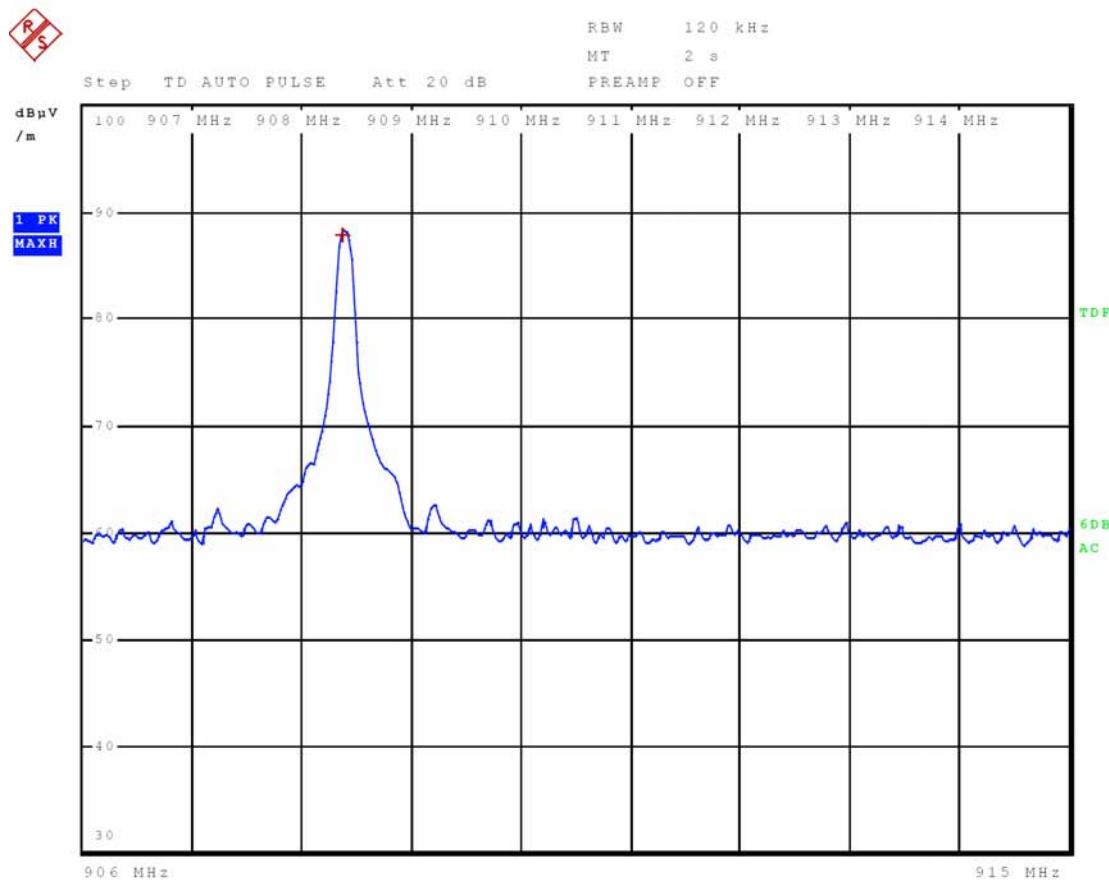
Scan Start: 906 MHz

Scan Stop: 915 MHz

Detector: Trace 1: MAX PEAK

Transducer: 3142B3m

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
906.000000 MHz	915.000000 MHz	30.00 kHz	120.00 kHz	1 ms	20 dB	0 dB	INPUT2





**Meas Type** EMISSION OF THE CARRIER

**Equipment under Test** Weather station USB key

**Manufacturer** GOAP d.o.o.

**OP Condition** CH1, Max power

**Operator** Andrej Skof

**Test Spec**

VERTICAL 112 cm, 140 deg

### **Final Measurement**

Meas Time: 2 s

Margin: 10 dB

Peaks: 1

Trace	Frequency	Level (dB $\mu$ V/m)	Detector	Delta Limit/dB
1	908.370000000 MHz	87.84	Quasi Peak	

**Meas Type** EMISSION FROM THE CARRIER**Equipment under Test** Weather station USB key**Manufacturer** GOAP d.o.o.**OP Condition** CH1, Max power**Operator** Andrej Skof**Test Spec**

HORIZONTAL 100 cm, 33 deg

**Time Domain Scan (1 Range)**

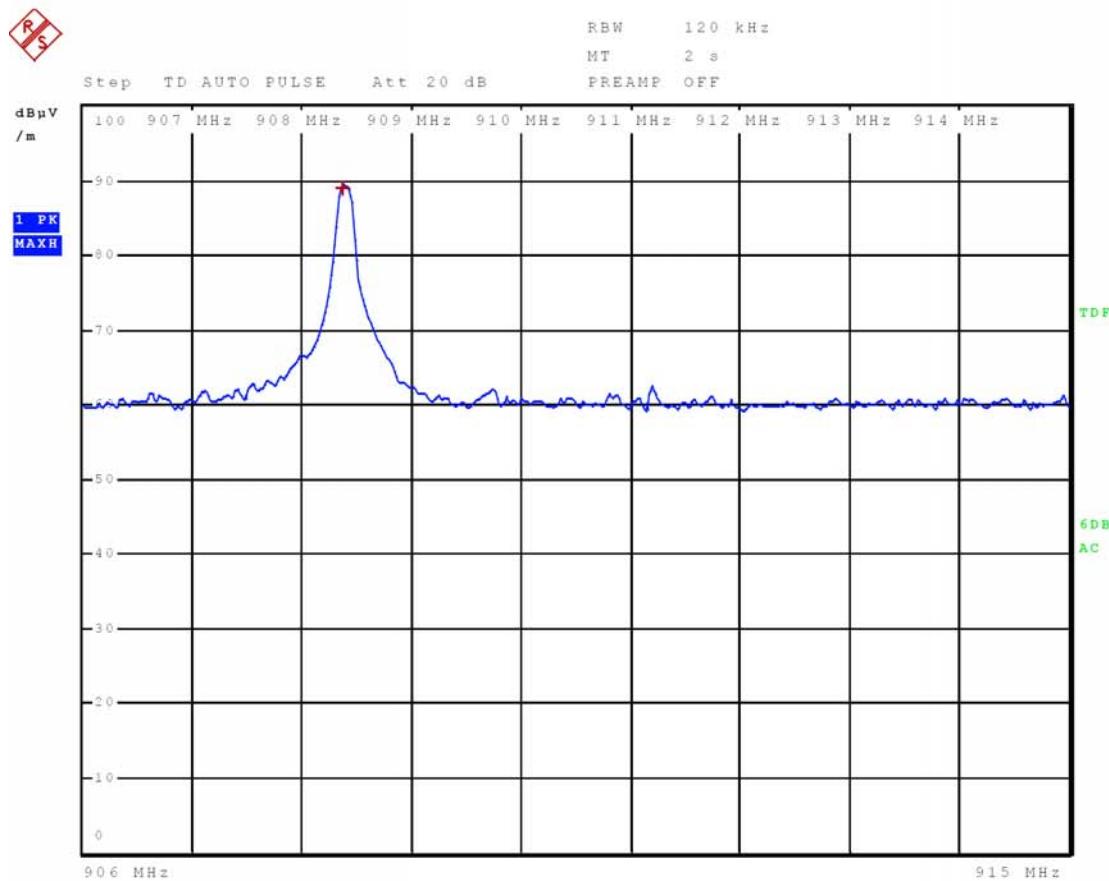
Scan Start: 906 MHz

Scan Stop: 915 MHz

Detector: Trace 1: MAX PEAK

Transducer: 3142B3m

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
906.000000 MHz	915.000000 MHz	30.00 kHz	120.00 kHz	1 ms	20 dB	0 dB	INPUT2





**Meas Type** EMISSION FROM THE CARRIER

**Equipment under Test** Weather station USB key

**Manufacturer** GOAP d.o.o.

**OP Condition** CH1, Max power

**Operator** Andrej Skof

**Test Spec**

HORIZONTAL 100 cm, 33 deg

### **Final Measurement**

Meas Time: 2 s

Margin: 10 dB

Peaks: 1

Trace	Frequency	Level (dB $\mu$ V/m)	Detector	Delta Limit/dB
1	908.370000000 MHz	88.88	Quasi Peak	

### **Tabulated results**

Operating condition	Frequency (MHz)	Antenna polarization	Detector	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Delta to Limit (dB)
Channel 0	915,97	Vertical	QP	85,43	94,00	-8,57
Channel 0	915,97	Horizontal	QP	86,75	94,00	-7,25
Channel 1	908,37	Vertical	QP	87,84	94,00	-6,16
Channel 1	908,37	Horizontal	QP	88,88	94,00	-5,12