

TEST REPORT # EMCC-110265G 2014-05-19

EQUIPMENT UNDER TEST

Trade Name: MTP40S Pocket Transmitter
Model: MTP40S
Serial No: T1942218, T1942219
Equipment Category: Wideband bodypack transmitter

Manufacturer: WISYCOM SRL
Via Spin, 156
36060 Romano d'Ezzelino (VI)
ITALY

Applicant: same as manufacturer

Phone: +39 0424 382605
E-Mail: support@wisyscom.com

RELEVANT STANDARD(S):

FCC Rules & Regulations, Title 47 - Part 74.861

MEASUREMENT PROCEDURE USED:

ANSI/TIA-603-D

TEST REPORT PREPARED BY:

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TEST PERSONEL:



Patrick Reusch

HEAD OF GROUP:



Wolfgang Döring

FCC Radio Tests on WISYCOM SRL MTP40S

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1 GENERAL INFORMATION

1.1 Limits and Reservations

The test results in this report apply only to the particular Equipment Under Test (EUT), as declared in this report. This test report shall not be reproduced except in full without the written permission of EMCCons DR. RAŠEK GmbH & Co. KG.

1.2 Test Location

Company:	EMCCons DR. RAŠEK GmbH & Co. KG Moggast, Boelwiese 8 91320 Ebermannstadt GERMANY
Accreditation No.:	D-PL-12067-01-00
Address of Labs I, II, III and Head Office:	EMCCons DR. RAŠEK GmbH & Co. KG Moggast, Boelwiese 8 91320 Ebermannstadt GERMANY
Address of Labs IV and V:	EMCCons DR. RAŠEK GmbH & Co. KG Stoernhofer Berg 15 91364 Unterleinleiter GERMANY
Test Laboratory:	EMCCons DR. RAŠEK GmbH & Co. KG, Test Laboratory IV located at Stoernhofer Berg 15, 91364 Unterleinleiter, Germany The 3 m & 10 m semi-anechoic chamber site has been fully described in a report submitted to the FCC, and accepted in the letter dated December 24, 2013, Registration Number 878769.
Name for contact purposes:	Mr Patrick Reusch
Phone:	+49 9194 9016
Fax:	+49 9194 8125
E-mail:	p.reusch@emcc.de
Web:	www.emcc.de

FCC Radio Tests on WISYCOM SRL MTP40S

1.3 Manufacturer

Company Name: WISYCOM SRL
Street: Via Spin, 156
City: 36060 Romano d'Ezzelino (VI)
Country: ITALY

Name for contact purposes: Ms Nadia Sbrissa
Phone: +39 0424 382605
Fax: +39 0424 382733
E-mail: support@wisyscom.com

1.4 Applicant

Same as manufacturer.

1.5 Dates

Date of receipt of EUT: 2014-05-13
Test Date: 2014, CW19 to CW20

1.6 Ordering Information

Purchase Order: AQ14.0359
Date: 2014-05-08
Vendor Number: 02262

1.7 Climatic Conditions

Date	Temperature [°C]	Relative Humidity [%]	Air Pressure [hPa]	Lab	Customer attended tests
2014-05-15	21	37	986	IV	no
2014-05-16	22	41	984	IV	no
2014-05-19	22	46	967	IV	no

2 PRODUCT DESCRIPTION

2.1 Equipment Under Test (EUT)

Trade Name:	MTP40S Pocket Transmitter
Model:	MTP40S
Serial Number:	T1942218, T1942219
FCC ID:	POUMTP40
Application:	Pocket transmitter
Power:	DC 3 V, (2x battery AA alkaline).
Frequency Range:	470 – 640 MHz for EUT #T1942218 510 – 698 MHz for EUT #T1942219
Channel Settings	470 – 638 MHz for EUT #T1942218 640 – 698 MHz for EUT #T1942219
Channel Spacing:	25 kHz
Authorized Bandwidth:	200 kHz
Rated Power:	50 mW (ERP)
Antenna:	External rod antenna: AWF30-B1-507 and AWF30-B1-590 for EUT #T1942218 AWF30-B3-552 and AWF30-B3-646 for EUT #T1942219
Interface Ports:	Microphone
Variants:	two
Remarks:	None

2.2 EUT Peripherals

The antenna was not connected during the test. A dummy microphone LL1532 (delivered by the customer) was connected at the microphone input.

2.3 Mode of Operation during Testing

The EUT was tested under normal operation and powered by 2x alkaline battery. High power (50 mW ERP) was selected.

The signal was applied to the EUT via the dummy microphone LL1532.

2.4 Modifications required for Compliance

None.

FCC Radio Tests on WISYCOM SRL MTP40S

3 TEST RESULTS SUMMARY

Summary of Test Results for the following EUT:

Manufacturer: WISYCOM SRL
Device: MTP40S Pocket Transmitter
Model No.: MTP40S
Serial Number: T1942218, T1942219

Requirement	Specification	Test Result
RF Power Output	Part 74.861 (e) (1)	N.T.
Frequency Stability	Part 74.861 (e) (4)	N.T.
Audio Modulation Characteristic	Part 74.861 (e) (3)	Complied
Emission Bandwidth	Part 74.861 (e) (5)	N.T.
Spurious emissions at antenna port	Part 74.861 (e) (6)	N.T.
Field strength of spurious radiation	Part 74.861 (e) (6)	Complied

N.T. – Not tested according to applicant's order.

The client has made the determination that EUT Condition, Characterization and Mode of Operation are representative of production units and meet the requirements of the specifications referenced herein.

Consistent with Industry practice, measurement and test equipment not directly involved in obtaining measurement results but having an impact on measurements (such as cable loss, antenna factors, etc.) are factored into the "Correction Factor" documented in certain test results. Instrumentation employed for testing meets tolerances consistent with known Industry Standards and Regulations.

The measurements contained in this report were made in accordance with the procedure ANSI / TIA-603-D. All emissions from the device were found to be within the limits outlined in this report.

The test results in this report apply only to the particular Equipment Under Test (EUT) as declared in this report.

Test Personnel: Patrick Reusch
Issuance Date: 2014-05-19

4 AUDIO MODULATION CHARACTERISTICS

Test Requirement: FCC: Part 74.861 (e) (3)
Test Procedure: FCC: Section 2.1047

4.1 Regulation

FCC 47 CFR Part 74.861 (e) (3)

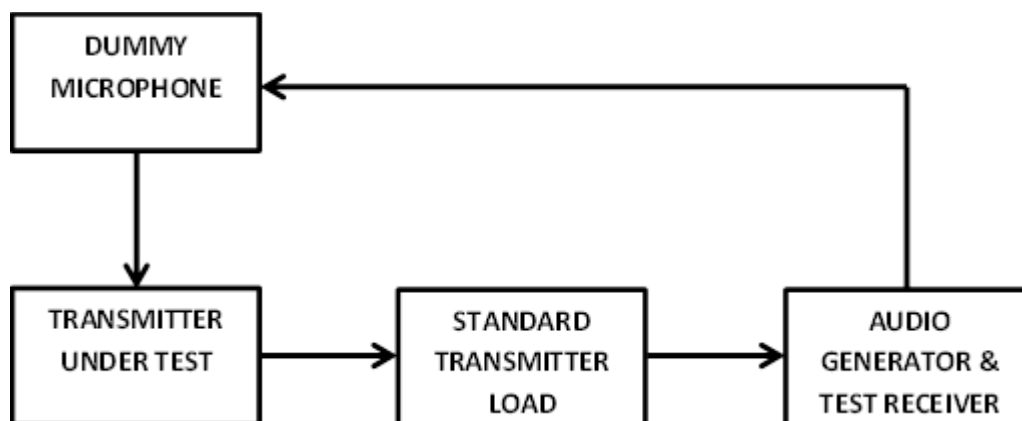
Any form of modulation may be used. A maximum deviation of ± 75 kHz is permitted when frequency modulation is employed.

4.2 Test Equipment

Type	Manufacturer/ Model No.	EMCC Ident No.	Last Calibration	Next Calibration
Radio Communication Tester	R&S, CMTA 84	373	2012-06	2014-06

4.3 Test Procedures

The audio modulation characteristics of the EUT were measured by means of a radio communication tester by varying the audio frequency and the audio input level. The equipment was connected as below. The maximum deviation (positive or negative) was recorded.



4.4 Results

The maximum measured deviation of the transmitter output frequency is 63.2 kHz. Therefore, there is a margin of 11.7 kHz to the maximum allowed deviation of ± 75 kHz. See appendix A1.1 for detailed test data.

The EUT meets the requirements of this section.

Test Personnel: Patrick Reusch

Test Date: 2014-05-19

5 FIELD STRENGTH OF SPURIOUS RADIATION

Test Requirement: FCC: Part 74.861 (e) (6)
Test Procedure: FCC: Section 2.1053

5.1 Regulation

FCC 47 CFR Part 74.861 (e) (6)

[..] The mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

(iii) On any frequency removed from the operating frequency by more than 250 percent of the authorized bandwidth: at least $43 + 10 \log_{10}$ (mean output power in watts) dB.

$$43 + 10 \log_{10}(P [W]) = 43 + 10 \log_{10}(0.1 W) = 33 \text{ dB}$$

Calculation of limit

$$20 \text{ dBm} - 33 \text{ dB} = -13 \text{ dBm}$$

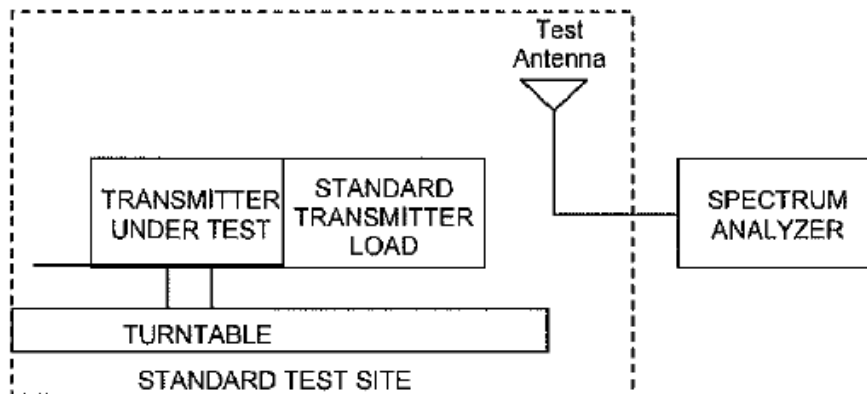
5.2 Test Equipment

Type	Manufacturer/ Model No.	EMCC Ident No.	Last Calibration	Next Calibration
EMI/RFI Test Receiver	R&S, ESS	303	2014-02	2015-02
EMI Test Receiver	R&S, ESU8	3846	2013-07	2014-07
Biconilog. Antenna	EMCO, 3143	898	2014-01	2016-01
Double Ridged Guide Ant.	Schwarzbeck, BBHA 120D	3236	2013-02	2015-02
Loop Antenna	R&S, HFH 2-Z2	374	2014-05	2017-05
HF-Cable	IW, NPS-2801AN-2756	4393	2013-09	2014-09
Anechoic Room SAC	Frankonia	1889	-	-
1 W Termination	Radiall, R404011000	1513	2013-10	2015-10

5.3 Test Procedures

For measuring the radiated spurious emissions of the EUT, the antenna port has to be terminated with a non-radiating load according to ANSI-TIA 603-D. The signal is unmodulated during radiated spurious emission tests.

The equipment has to be connected as shown in the picture below:



The EUT is placed on the turntable in the standard test site. All sides of the EUT have to be investigated during the measurement.

Remark:

Measurements below 1 GHz performed in dBm units.

The limits for frequencies above 1 GHz are converted into dB μ V/m units. This has been done with the following equations:

$$E [dB\mu V/m] = EIRP[dBm] + 104.8 - 20 \log\left(\frac{r}{m}\right)$$

The resulting limit for frequencies above 1 GHz is:

$$E_{FCC} [dB\mu V/m] = 82.3 dB\mu V/m$$

5.4 Results

The antenna port of the EUT was terminated with a non-radiating load. Therefore, the radiated emission of the carrier is highly attenuated. All other radiated emissions of the EUT were found to be below the noise floor. See appendix A1.2 for detailed test data.

The EUT meets the requirements of this section.

Test Personnel: Patrick Reusch

Test Date: 2014-05-15 and 2014-05-16

6 MISCELLANEOUS COMMENTS AND NOTES

None.

FCC Radio Tests on WISYCOM SRL MTP40S

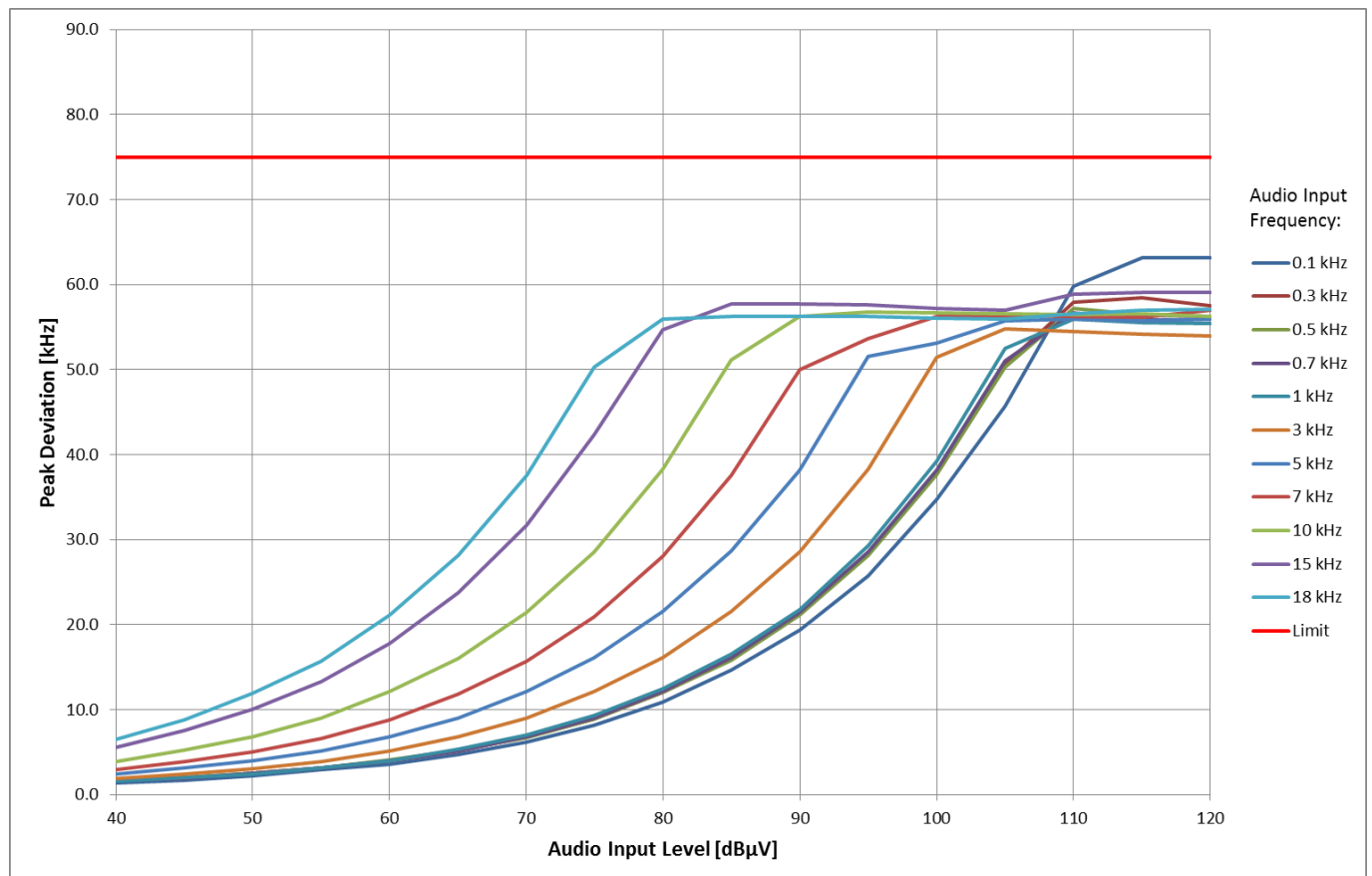
APPENDIX 1 – TEST DATA

A1.1 Audio Modulation Characteristics

Carrier freq.: 640.000 MHz

EUT: #T1942218

AF level [dBμV]	AF Frequency [kHz] / Peak Deviation [kHz]										
	0.1	0.3	0.5	0.7	1	3	5	7	10	15	18
40	1.4	1.7	1.7	1.7	1.6	1.9	2.4	2.9	3.9	5.6	6.5
45	1.7	2.0	2.0	1.9	2.0	2.4	3.1	3.9	5.2	7.5	8.8
50	2.2	2.5	2.5	2.5	2.4	3.0	4.0	5.0	6.8	10.0	11.9
55	2.9	3.1	3.1	3.1	3.1	3.9	5.1	6.6	9.0	13.3	15.7
60	3.6	4.0	4.1	4.0	4.0	5.1	6.8	8.8	12.1	17.8	21.1
65	4.7	5.1	5.2	5.1	5.3	6.8	9.0	11.8	16.0	23.7	28.1
70	6.2	6.8	6.7	6.8	7.0	9.0	12.1	15.7	21.4	31.7	37.5
75	8.2	8.9	8.9	9.0	9.3	12.1	16.1	20.9	28.6	42.3	50.3
80	10.9	12.0	12.0	12.1	12.4	16.1	21.5	28.0	38.3	54.7	55.9
85	14.6	15.9	15.8	16.1	16.5	21.5	28.7	37.5	51.1	57.7	56.3
90	19.4	21.2	21.1	21.4	21.8	28.5	38.2	50.0	56.2	57.7	56.3
95	25.7	28.4	28.1	28.5	29.3	38.3	51.5	53.6	56.8	57.6	56.2
100	34.7	37.8	37.6	38.2	39.2	51.4	53.1	56.2	56.7	57.2	56.0
105	45.7	50.6	50.3	51.0	52.5	54.8	55.7	56.4	56.6	57.0	55.9
110	59.8	57.9	57.2	56.7	55.9	54.5	55.9	56.3	56.5	58.9	56.6
115	63.1	58.4	56.5	55.8	55.5	54.2	55.7	56.1	56.6	59.1	57.0
120	63.2	57.5	56.3	55.9	55.4	54.0	55.9	57.0	56.2	59.1	57.1



FCC Radio Tests on WISYCOM SRL MTP40S

A1.2 Field Strength of Radiated Spurious

**Prescan,
9 kHz – 30 MHz**

**EUT:
T1942218**

**Frequency:
470 MHz**

**Orientation of
the EUT:
lying &
standing**

EMCCons DR. RAŠEK

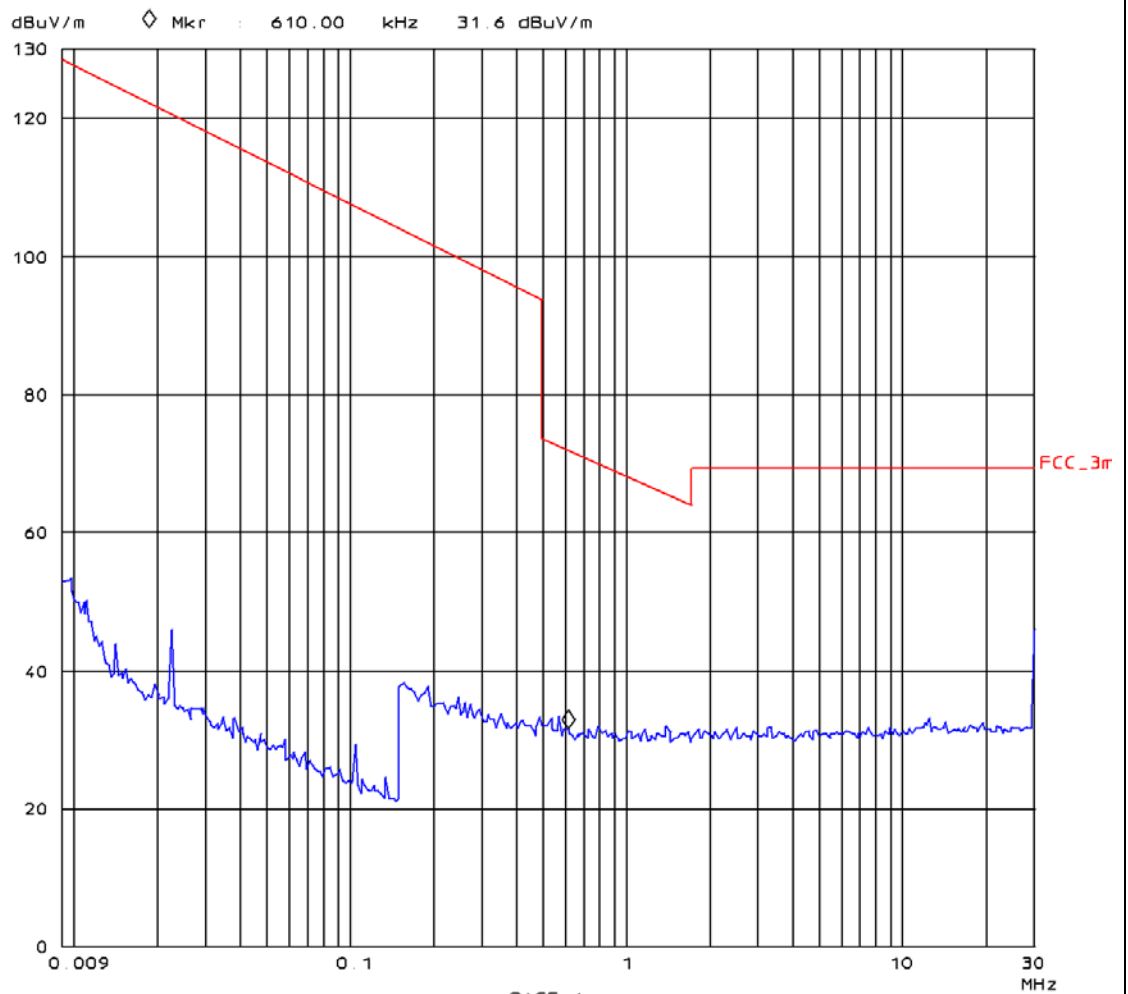
16 May 14 08:33

Radiated Emissions H Field in SAR, d=3m

EUT: MTP40S
Manuf: Wisycom
Op Cond: f = 470 MHz
Operator: Reusch
Test Spec: FCC Part 74.861

Scan Settings (2 Ranges)

Frequencies			Receiver Settings						
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge	
9k	150k	100Hz	200Hz	PK	10ms	AUTO	LN	OFF	
150k	30M	5k	10k	PK	5ms	AUTO	LD	OFF	



FCC Radio Tests on WISYCOM SRL MTP40S

**Prescan,
30 – 1000 MHz**

**EUT:
T1942218**

**Frequency:
470 MHz**

**Orientation of
the EUT:
lying**

EMCC DR. RAŠEK

16. May 14 10:02

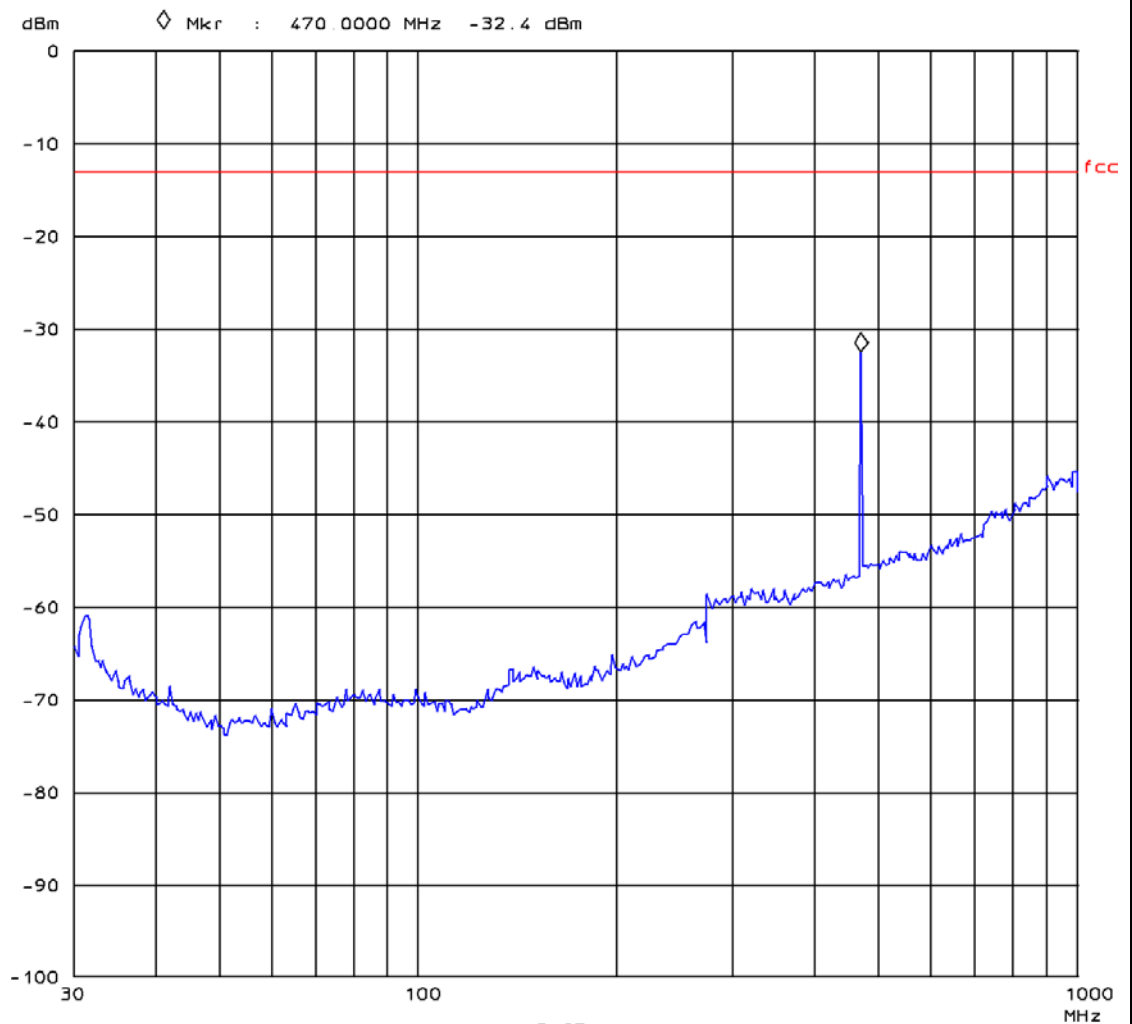
Radiated Emissions Prescan in SAC d=3m

EUT: MTP40S
Manuf: Wisycom
Op Cond: f = 470 MHz
Operator: Reusch
Test Spec: FCC Part 74.861

Fast Scan Settings (1 Range)

Frequencies			Receiver Settings						
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamplifier	OpRge	
30M	1000M	40k	120k	PK	0.10ms	0dB	LN ON	60dB	

Transducer	No.	Start	Stop	Name
	22	30M	1000M	EIRP3m



FCC Radio Tests on WISYCOM SRL MTP40S

**Prescan,
30 – 1000 MHz**

**EUT:
T1942218**

**Frequency:
470 MHz**

**Orientation of
the EUT:
standing**

EMCC DR. RAŠEK

16. May 14 12:31

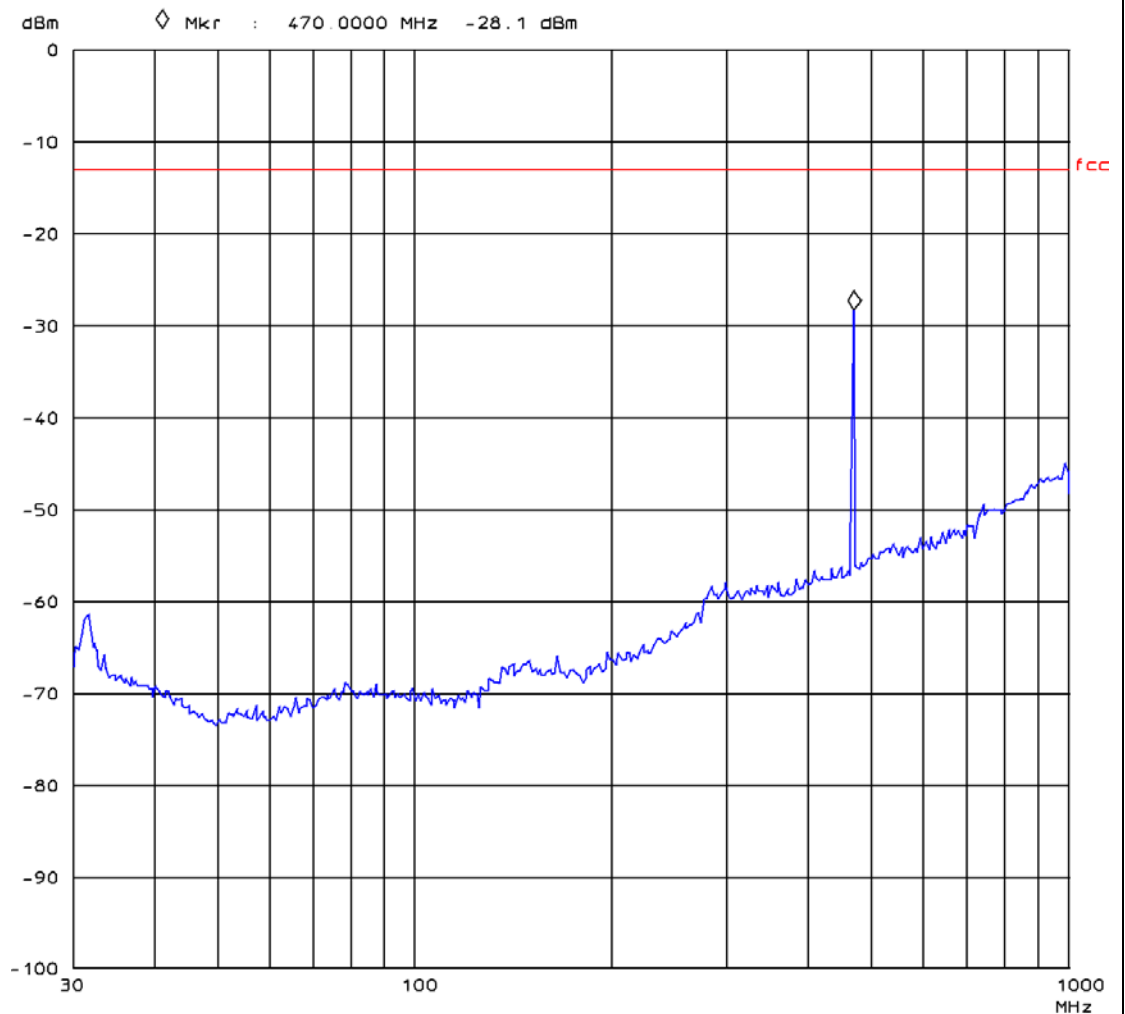
Radiated Emissions Prescan in SAC d=3m

EUT: MTP40S
Manuf: Wisycom
Op Cond: f = 470 MHz
Operator: Reusch
Test Spec: FCC Part 74.861

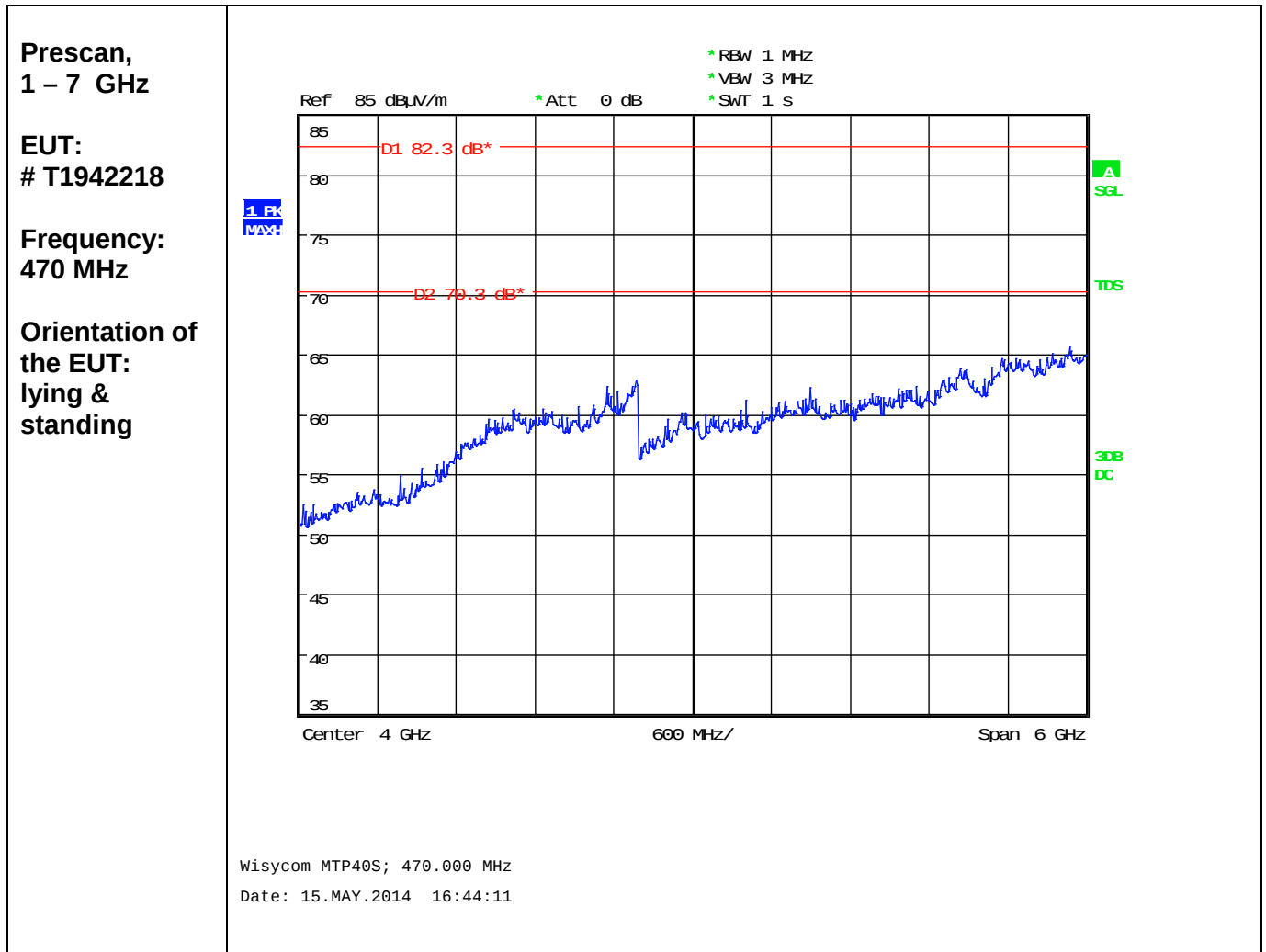
Fast Scan Settings (1 Range)

Frequencies			Receiver Settings						
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge	
30M	1000M	40k	120k	PK	0.10ms	0dB	LN ON	60dB	

Transducer	No.	Start	Stop	Name
	22	30M	1000M	EIRP3m



FCC Radio Tests on WISYCOM SRL MTP40S



Final measurement result: No peaks above noise floor.

FCC Radio Tests on WISYCOM SRL MTP40S

**Prescan,
30 – 1000 MHz**

**EUT:
T1942218**

**Frequency:
607.925 MHz**

**Orientation of
the EUT:
lying**

EMCC DR. RAŠEK

16. May 14 10:23

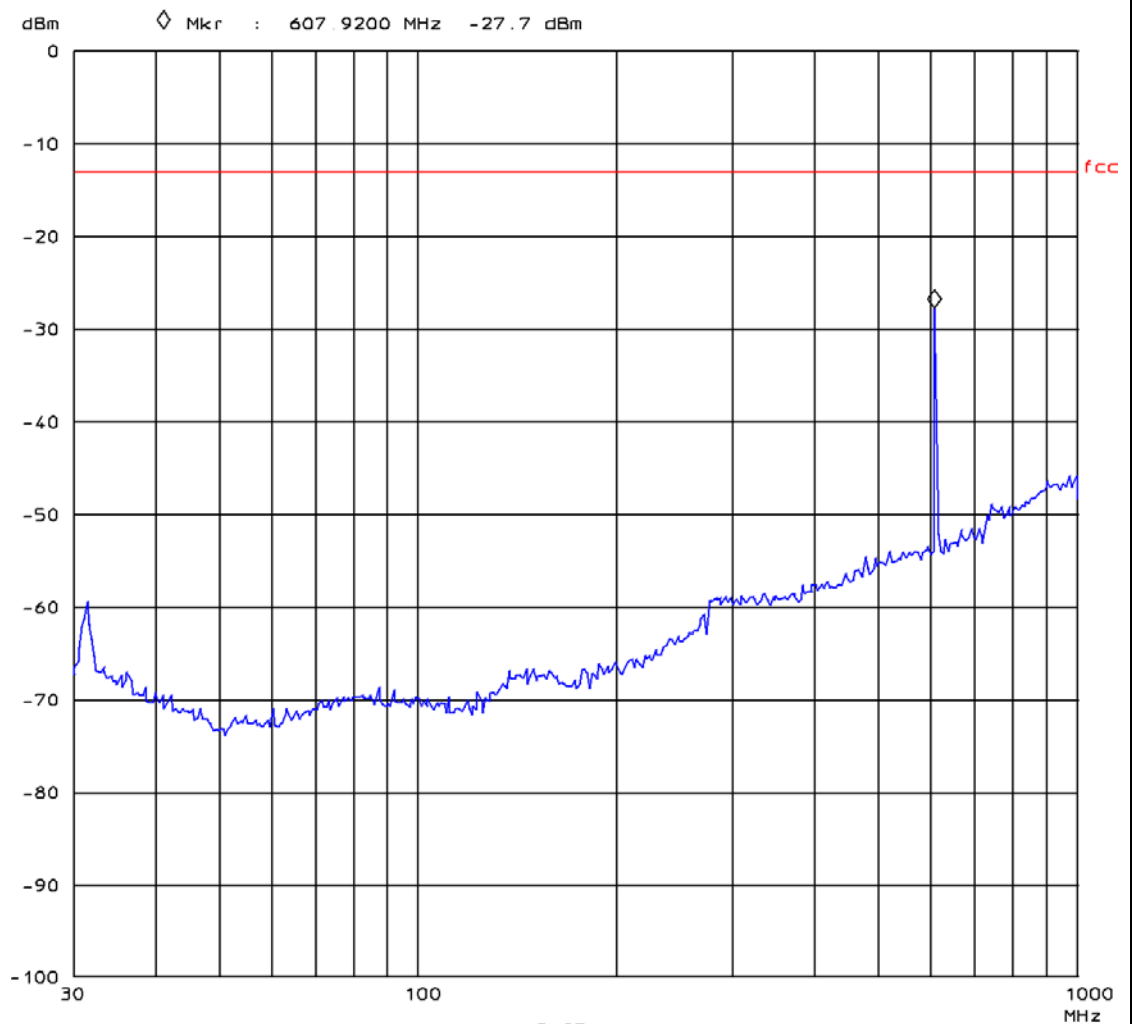
Radiated Emissions Prescan in SAC d=3m

EUT: MTP40S
Manuf: Wisycom
Op Cond: f = 607.925 MHz
Operator: Reusch
Test Spec: FCC Part 74.861

Fast Scan Settings (1 Range)

Frequencies			Receiver Settings						
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge	
30M	1000M	40k	120k	PK	0.10ms	0dB	LN ON	60dB	

Transducer	No.	Start	Stop	Name
	22	30M	1000M	EIRP3m



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FCC Radio Tests on WISYCOM SRL MTP40S

**Prescan,
30 – 1000 MHz**

**EUT:
T1942218**

**Frequency:
607.925 MHz**

**Orientation of
the EUT:
standing**

EMCC DR. RAŠEK

16. May 14 12:09

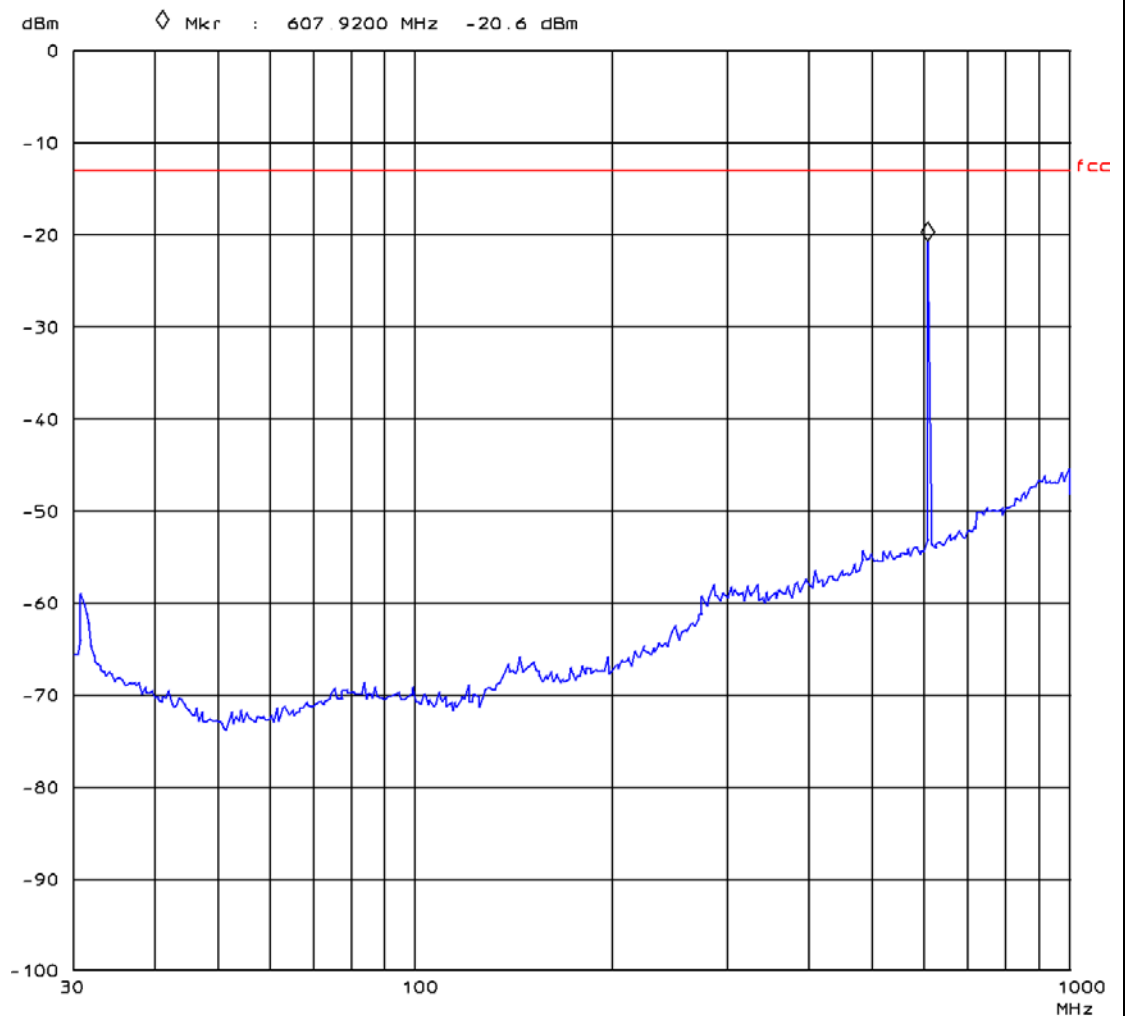
Radiated Emissions Prescan in SAC d=3m

EUT: MTP40S
Manuf: Wisycom
Op Cond: f = 607.925 MHz
Operator: Reusch
Test Spec: FCC Part 74.861

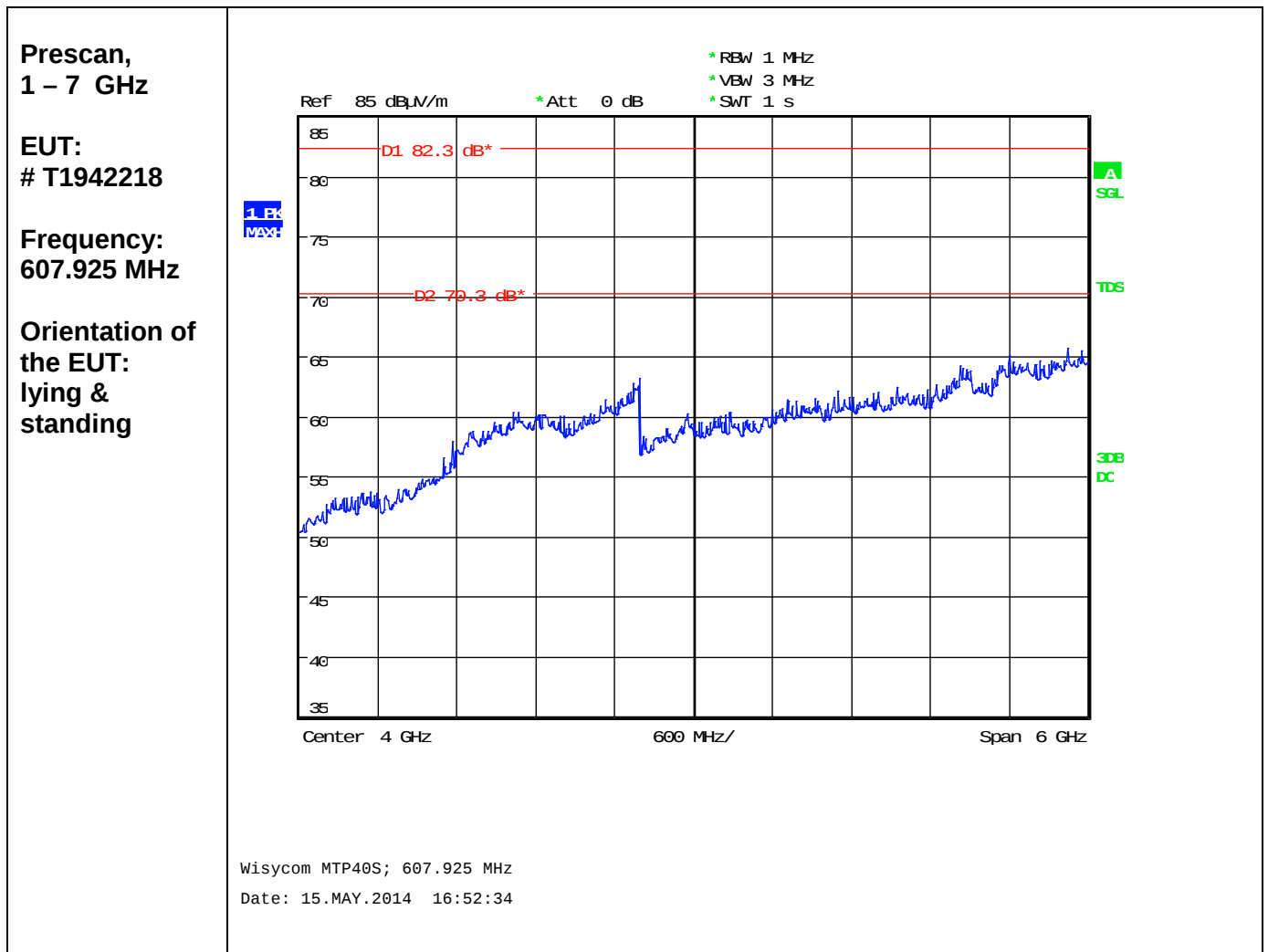
Fast Scan Settings (1 Range)

Frequencies				Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamplifier	OpRge	
30M	1000M	40k	120k	PK	0.10ms	0dB	ON	60dB	

Transducer	No.	Start	Stop	Name
	22	30M	1000M	EIRP3m



FCC Radio Tests on WISYCOM SRL MTP40S



Final measurement result: No peaks above noise floor.

FCC Radio Tests on WISYCOM SRL MTP40S

**Prescan,
30 – 1000 MHz**

**EUT:
T1942218**

**Frequency:
614.075 MHz**

**Orientation of
the EUT:
lying**

EMCC DR. RAŠEK

16. May 14 10:43

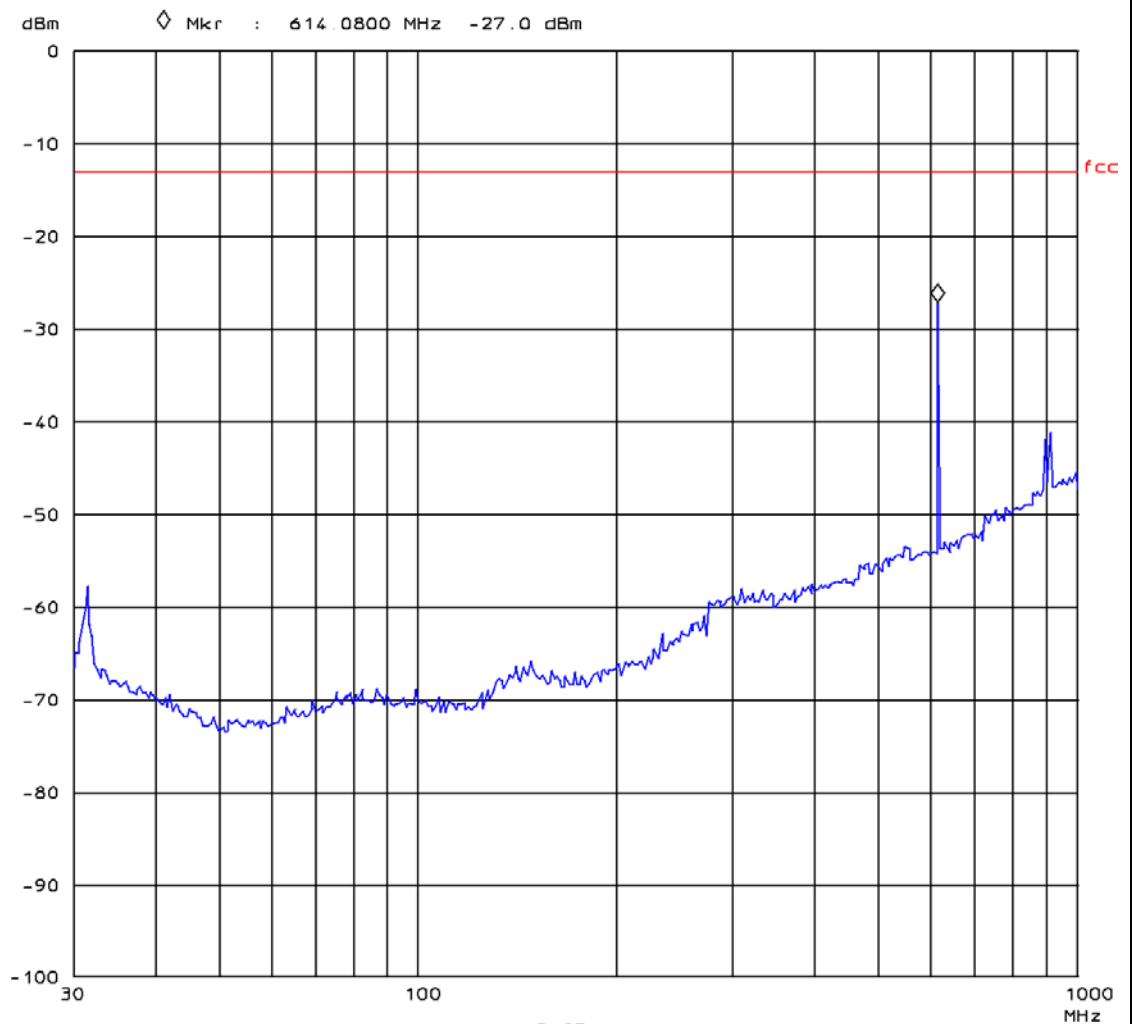
Radiated Emissions Prescan in SAC d=3m

EUT: MTP40S
Manuf: Wisycom
Op Cond: f = 614.075 MHz
Operator: Reusch
Test Spec: FCC Part 74.861

Fast Scan Settings (1 Range)

Frequencies			Receiver Settings						
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preampl	OpRge	
30M	1000M	40k	120k	PK	0.10ms	0dB	LN ON	60dB	

Transducer	No.	Start	Stop	Name
	22	30M	1000M	EIRP3m



FCC Radio Tests on WISYCOM SRL MTP40S

**Prescan,
30 – 1000 MHz**

**EUT:
T1942218**

**Frequency:
614.075 MHz**

**Orientation of
the EUT:
standing**

EMCC DR. RAŠEK

16. May 14 11:46

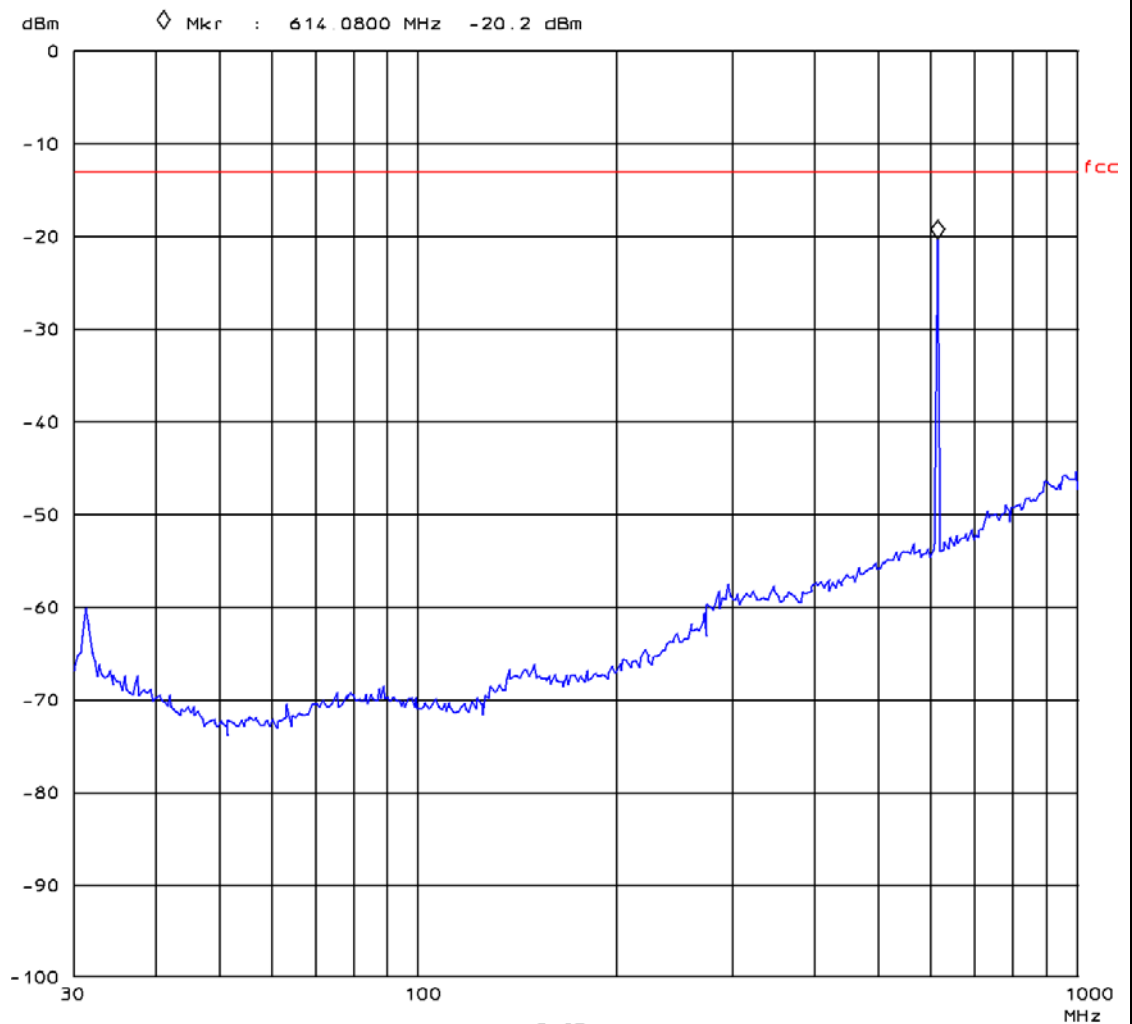
Radiated Emissions Prescan in SAC d=3m

EUT: MTP40S
Manuf: Wisycom
Op Cond: f = 614.075 MHz
Operator: Reusch
Test Spec: FCC Part 74.861

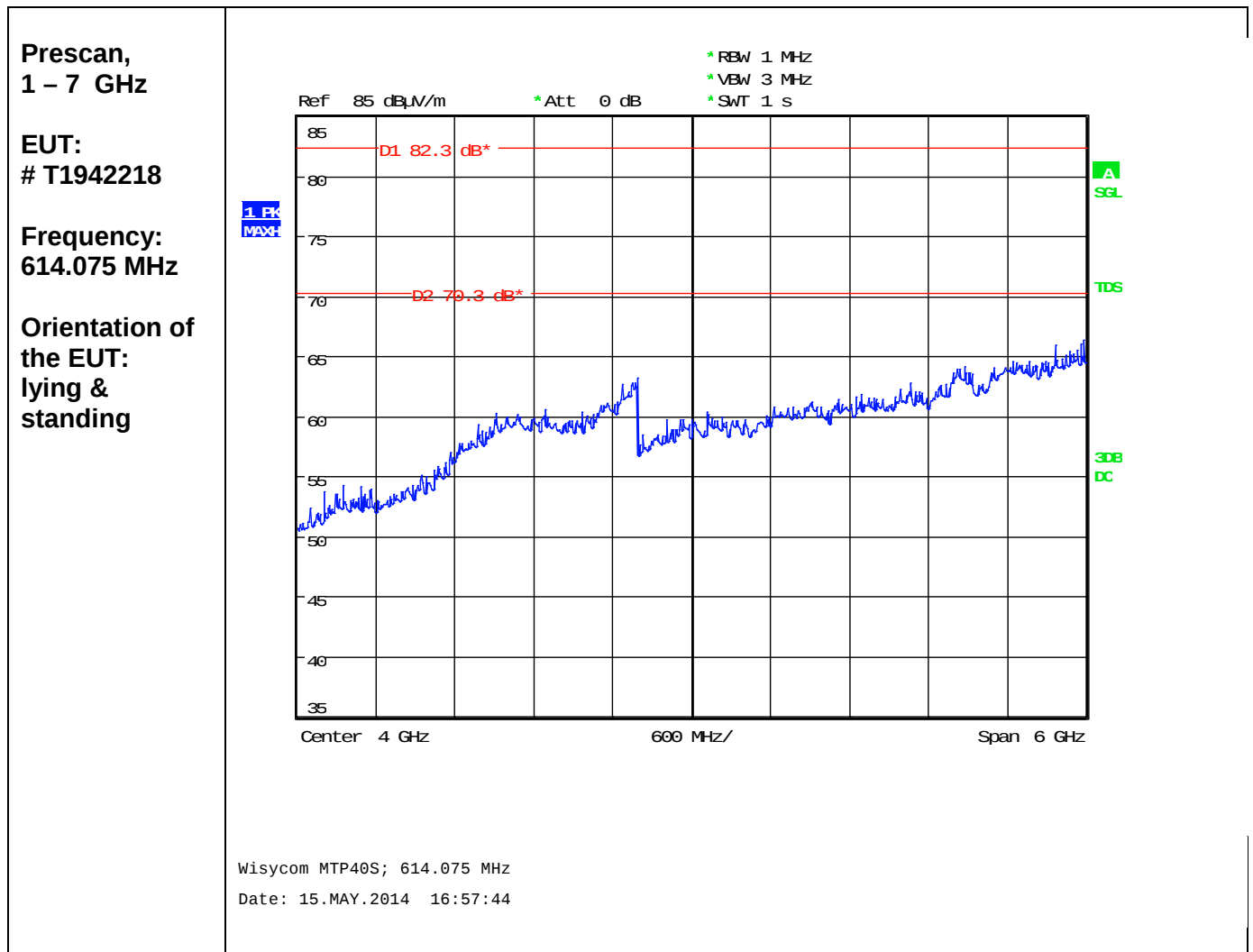
Fast Scan Settings (1 Range)

Frequencies			Receiver Settings						
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge	
30M	1000M	40k	120k	PK	0.10ms	0dB	LN ON	60dB	

Transducer	No.	Start	Stop	Name
	22	30M	1000M	EIRP3m



FCC Radio Tests on WISYCOM SRL MTP40S



Final measurement result: No peaks above noise floor.

FCC Radio Tests on WISYCOM SRL MTP40S

**Prescan,
9 kHz – 30 MHz**

**EUT:
T1942219**

**Frequency:
698 MHz**

**Orientation of
the EUT:
lying &
standing**

EMCCons DR. RAŠEK

16 May 14 09:08

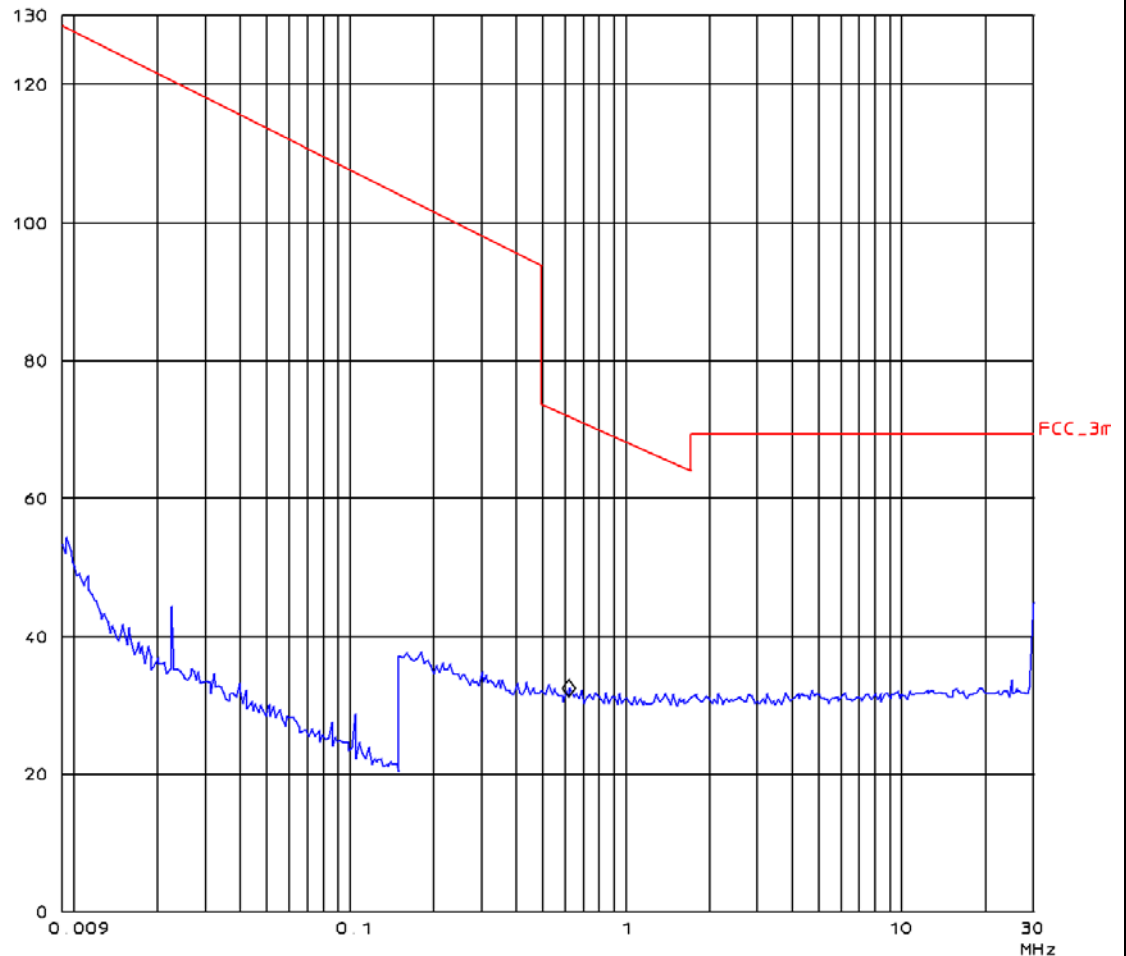
Radiated Emissions H Field in SAR, d=3m

EUT: MTP40S
 Manuf: Wisycom
 Op Cond: f = 698 MHz
 Operator: Reusch
 Test Spec: FCC Part 74.861

Scan Settings (2 Ranges)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
9k	150k	100Hz	200Hz	PK	10ms	AUTO	LN	OFF
150k	30M	5k	10k	PK	5ms	AUTO	LD	OFF

dBuV/m ◇ Mkr : 620.00 kHz 31.2 dBuV/m



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FCC Radio Tests on WISYCOM SRL MTP40S

**Prescan,
30 – 1000 MHz**

**EUT:
T1942219**

**Frequency:
698 MHz**

**Orientation of
the EUT:
lying**

EMCC DR. RAŠEK

16. May 14 11:04

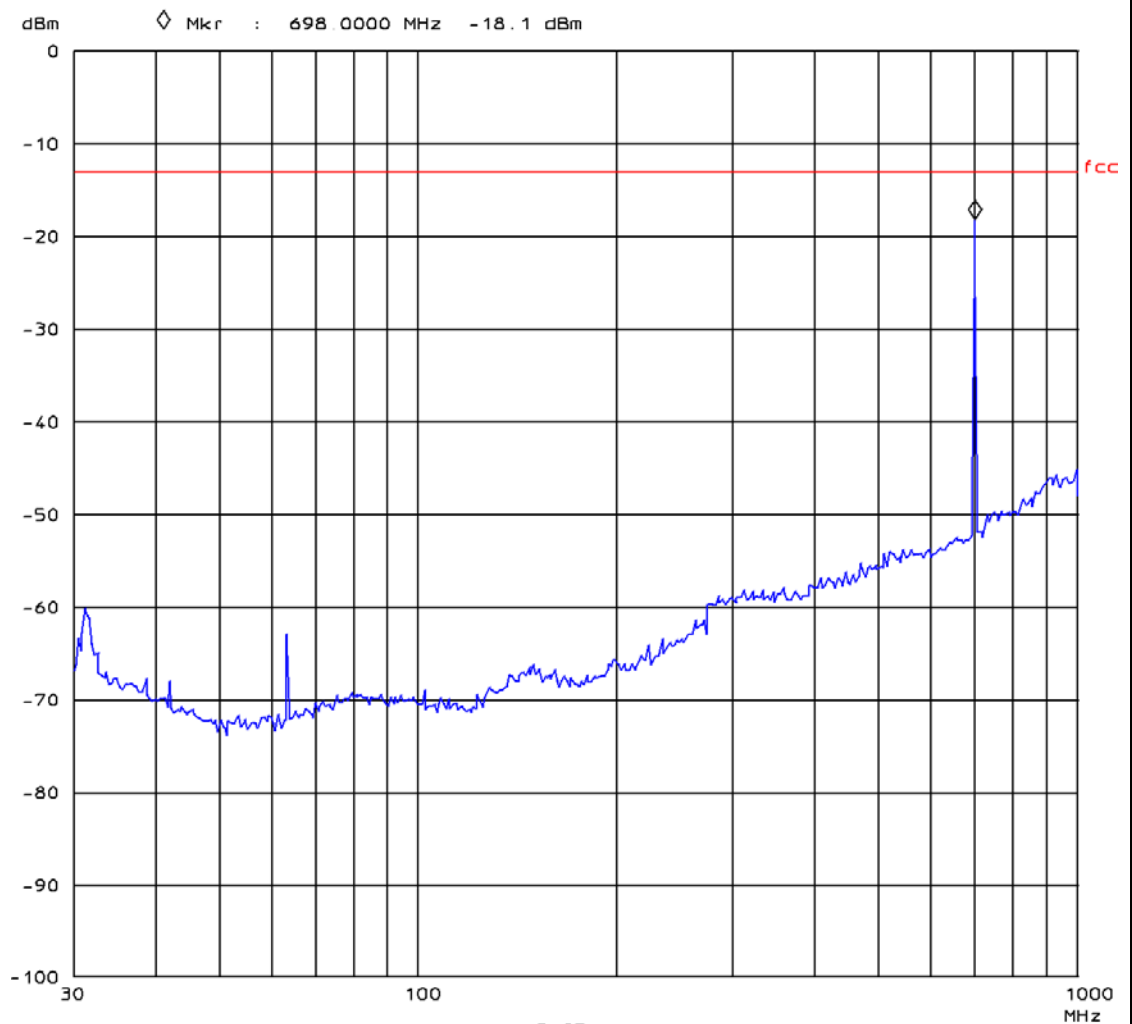
Radiated Emissions Prescan in SAC d=3m

EUT: MTP40S
Manuf: Wisycom
Op Cond: f = 698 MHz
Operator: Reusch
Test Spec: FCC Part 74.861

Fast Scan Settings (1 Range)

Frequencies			Receiver Settings						
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge	
30M	1000M	40k	120k	PK	0.10ms	0dB	BLN ON	60dB	

Transducer	No.	Start	Stop	Name
	22	30M	1000M	EIRP3m



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FCC Radio Tests on WISYCOM SRL MTP40S

**Prescan,
30 – 1000 MHz**

**EUT:
T1942219**

**Frequency:
698 MHz**

**Orientation of
the EUT:
standing**

EMCC DR. RAŠEK

16. May 14 11:26

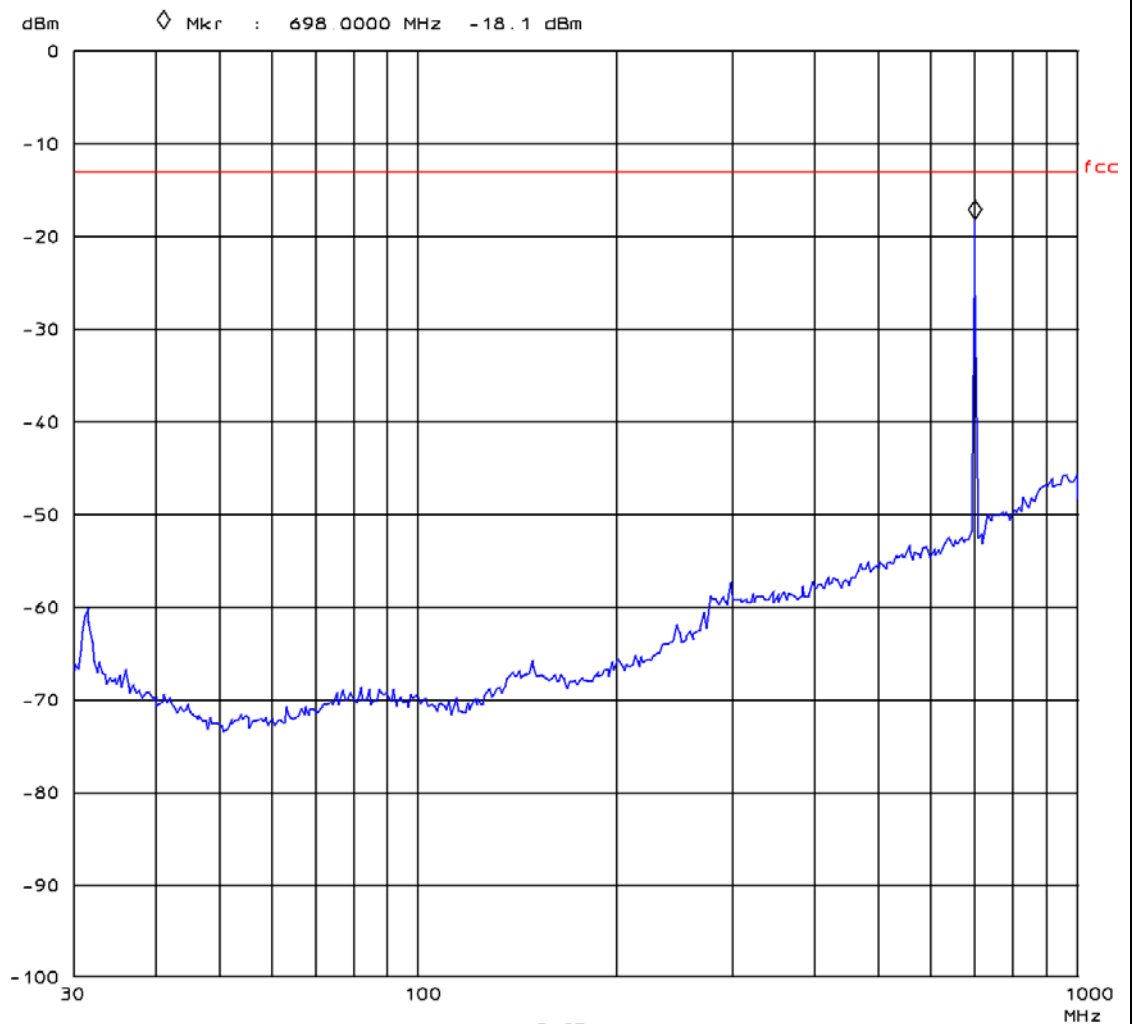
Radiated Emissions Prescan in SAC d=3m

EUT: MTP40S
Manuf: Wisycom
Op Cond: f = 698 MHz
Operator: Reusch
Test Spec: FCC Part 74.861

Fast Scan Settings (1 Range)

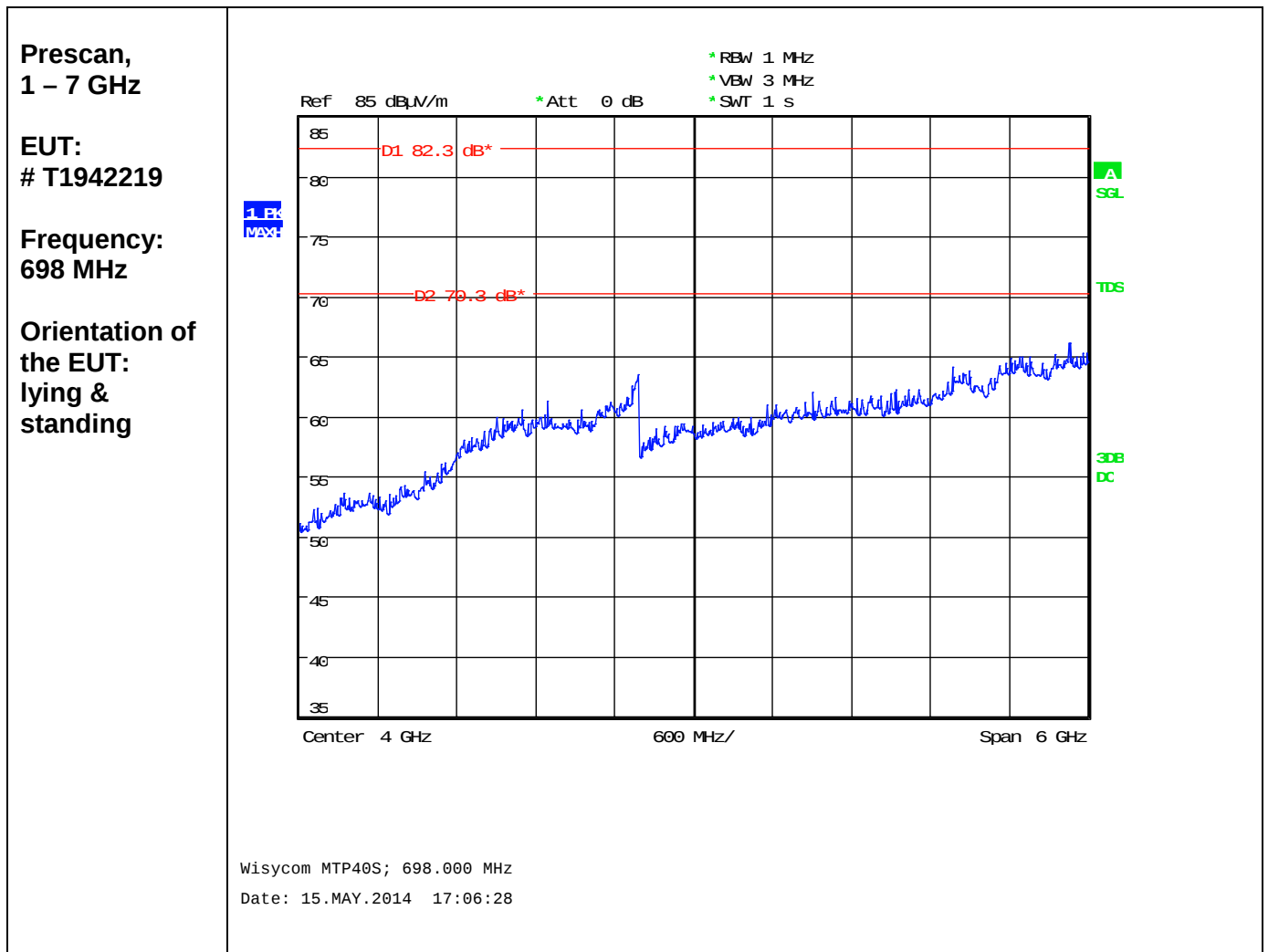
Frequencies			Receiver Settings						
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamplifier	OpRge	
30M	1000M	40k	120k	PK	0.10ms	0dB	BLN ON	60dB	

Transducer	No.	Start	Stop	Name
	22	30M	1000M	EIRP3m



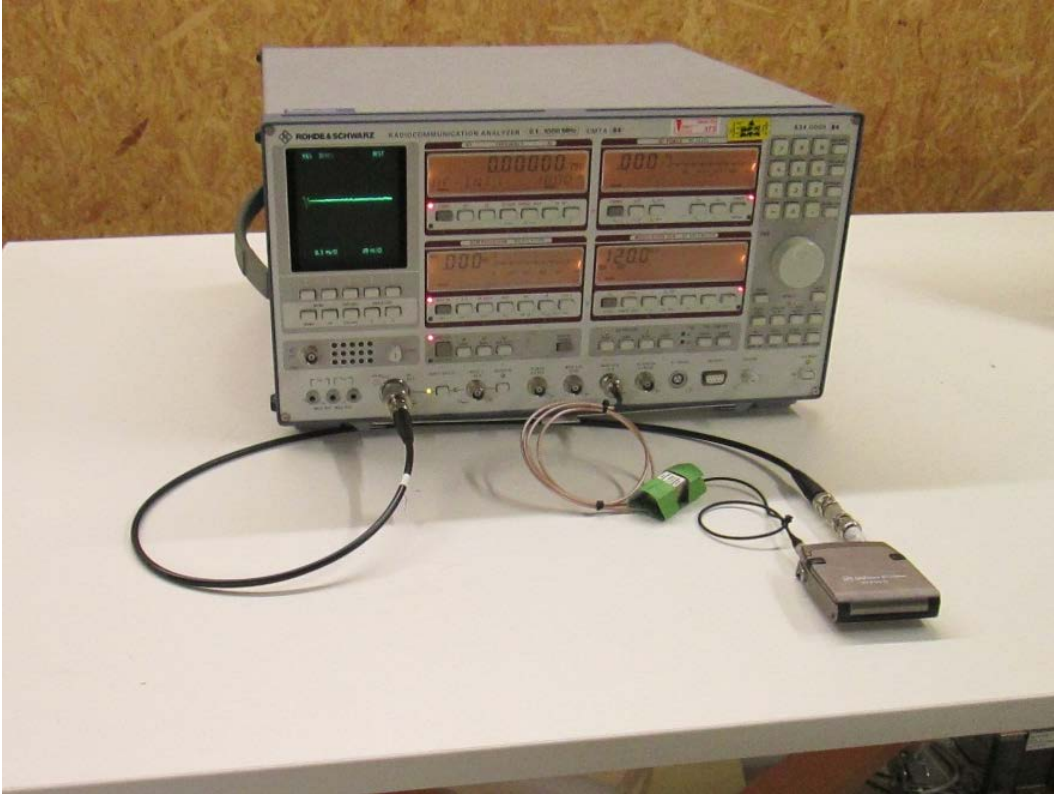
PAGE 1

FCC Radio Tests on WISYCOM SRL MTP40S

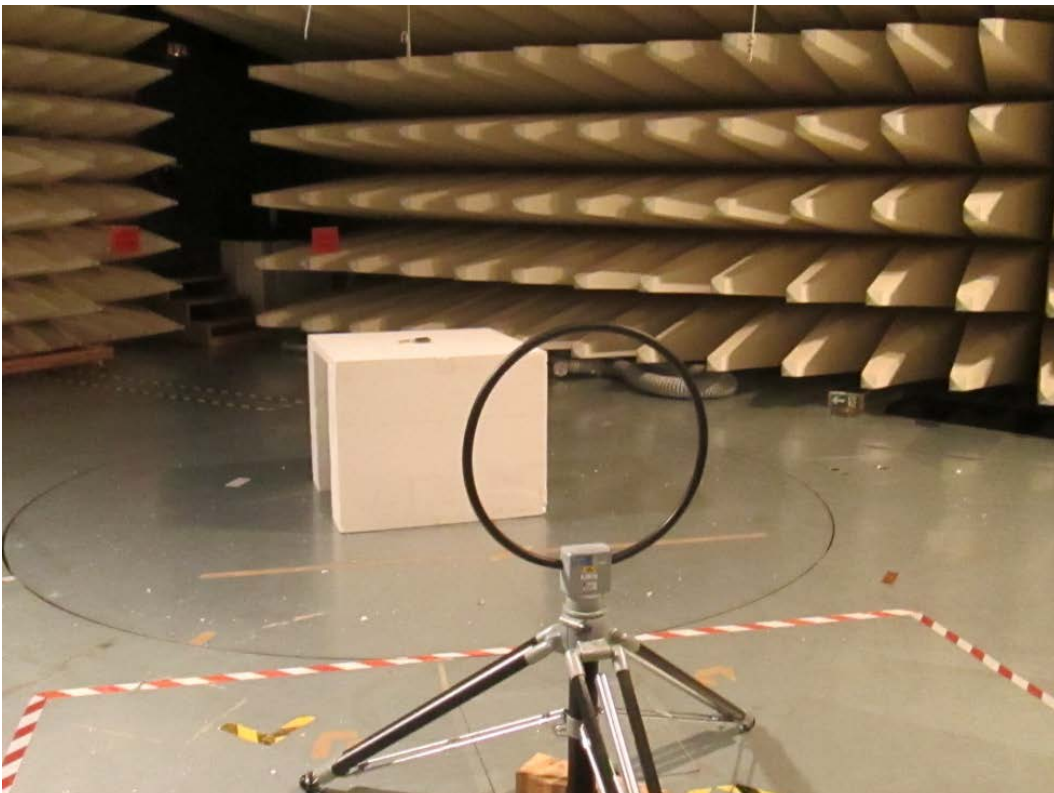


Final measurement result: No peaks above noise floor.

APPENDIX 2 - PHOTOGRAPHS OF TEST SETUP

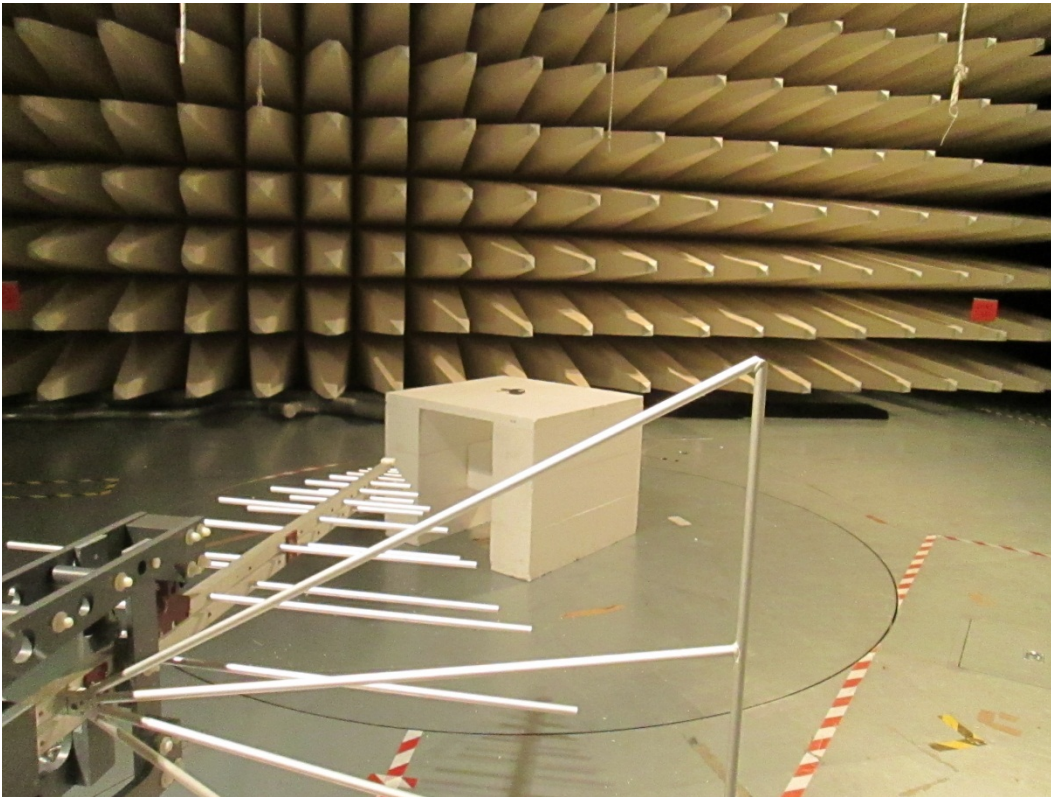


Test Setup: Audio modulation measurement

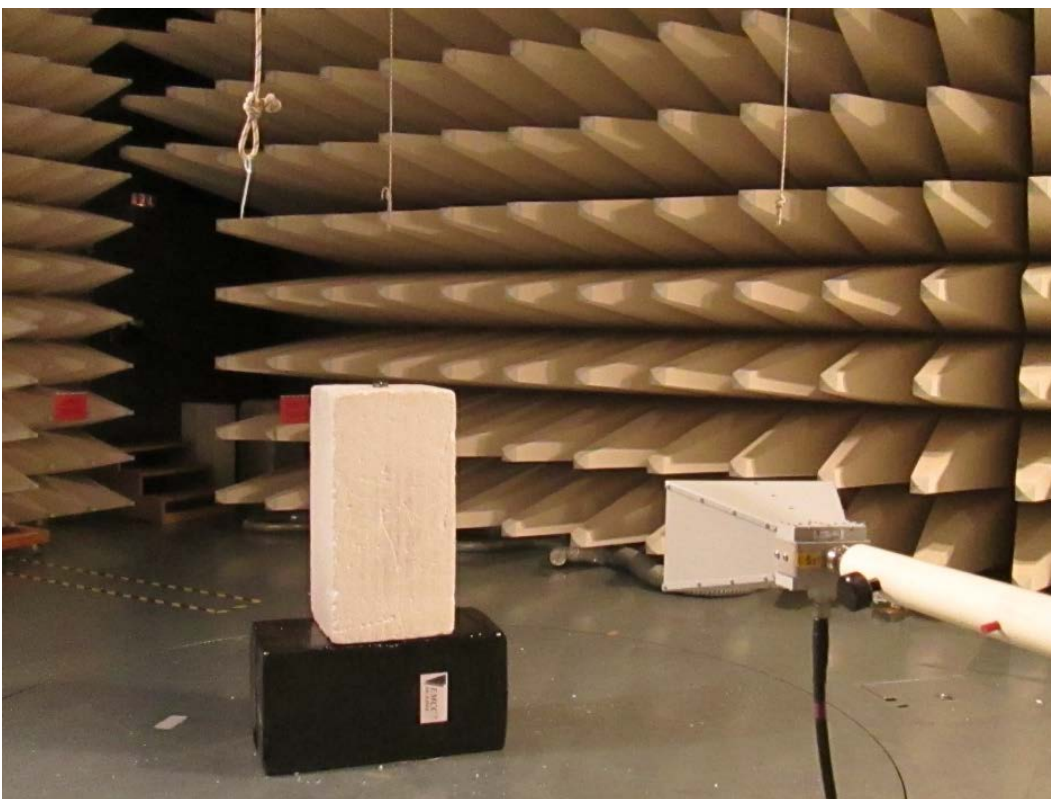


Test Setup: Field strength of spurious radiation measurement with loop antenna

FCC Radio Tests on WISYCOM SRL MTP40S



Test Setup: Field strength of spurious radiation measurement below 1 GHz



Test Setup: Field strength of spurious radiation measurement above 1 GHz

APPENDIX 3 - PHOTOGRAPHS OF EUT; EXTERNAL VIEW



Exemplary photo of EUT #T1942218, front view

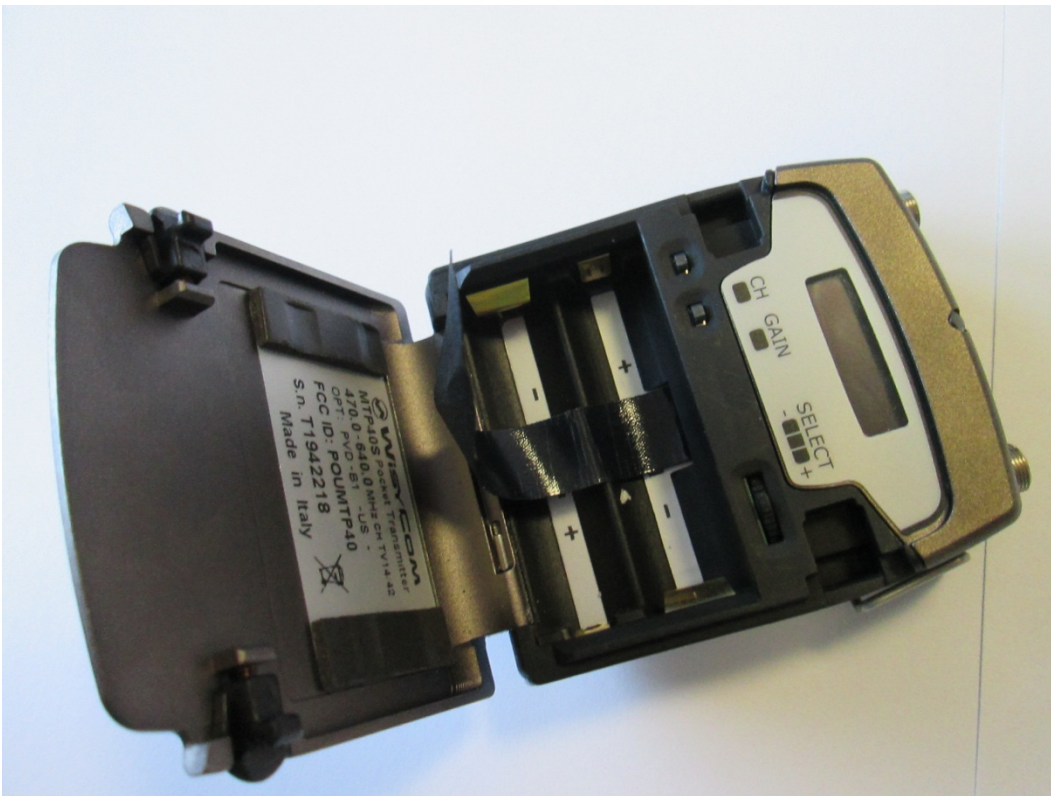


Exemplary photo of EUT # T1942218, top view

FCC Radio Tests on WISYCOM SRL MTP40S



Exemplary photo of EUT # T1942218, bottom view



Exemplary photo of EUT # T1942218, battery case view

FCC Radio Tests on WISYCOM SRL MTP40S



Label of EUT # T1942218



Label of EUT # T1942219

FCC Radio Tests on WISYCOM SRL MTP40S

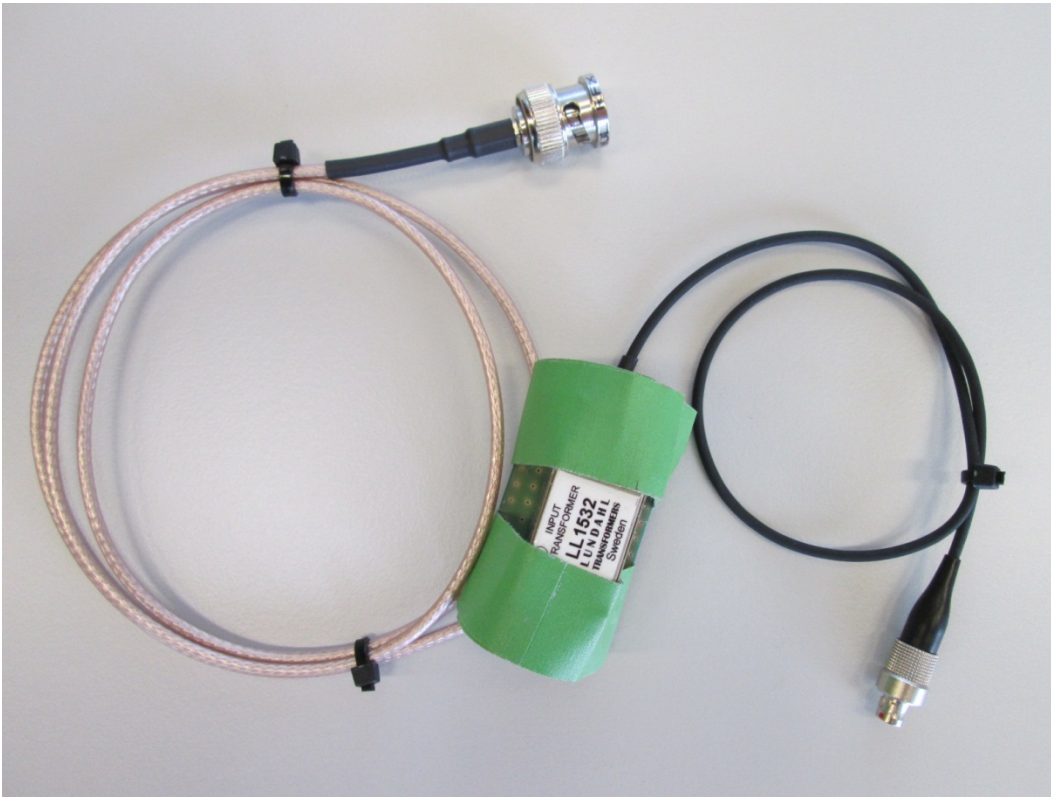


Antenna AWF30-B1-507 and AWF30-B1-590 for EUT # T1942218, not used during test



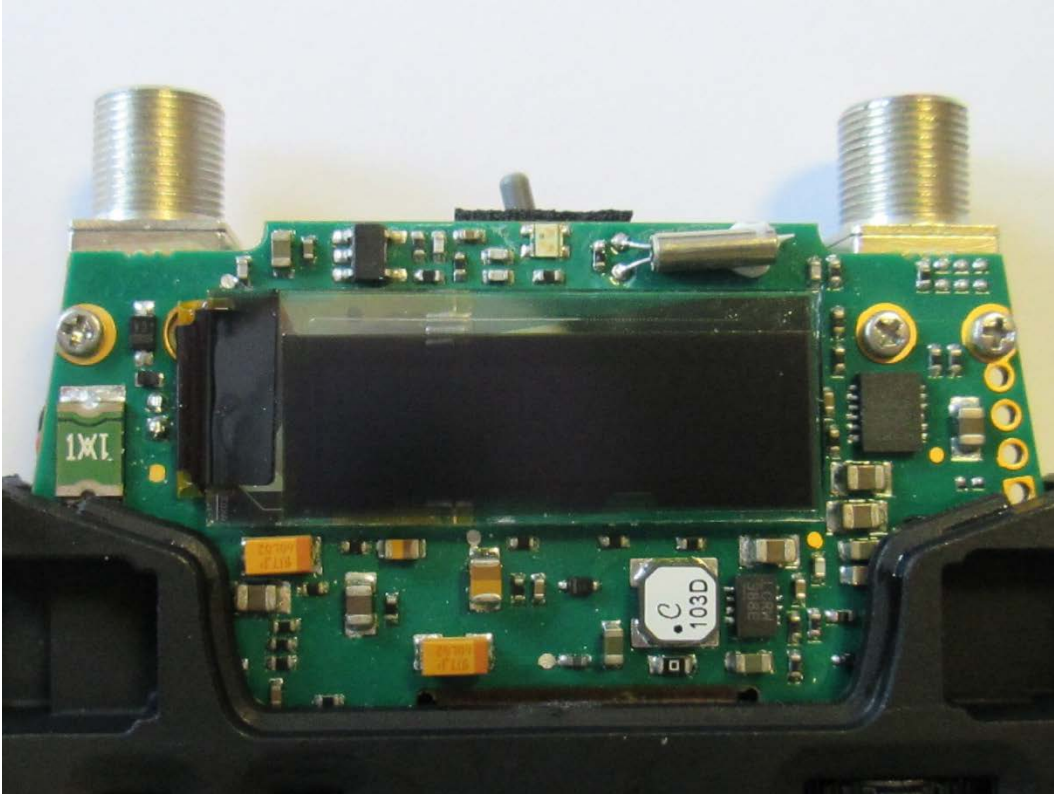
Antenna AWF30-B3-552 and AWF30-B3-646 for EUT # T1942219, not used during test

FCC Radio Tests on WISYCOM SRL MTP40S

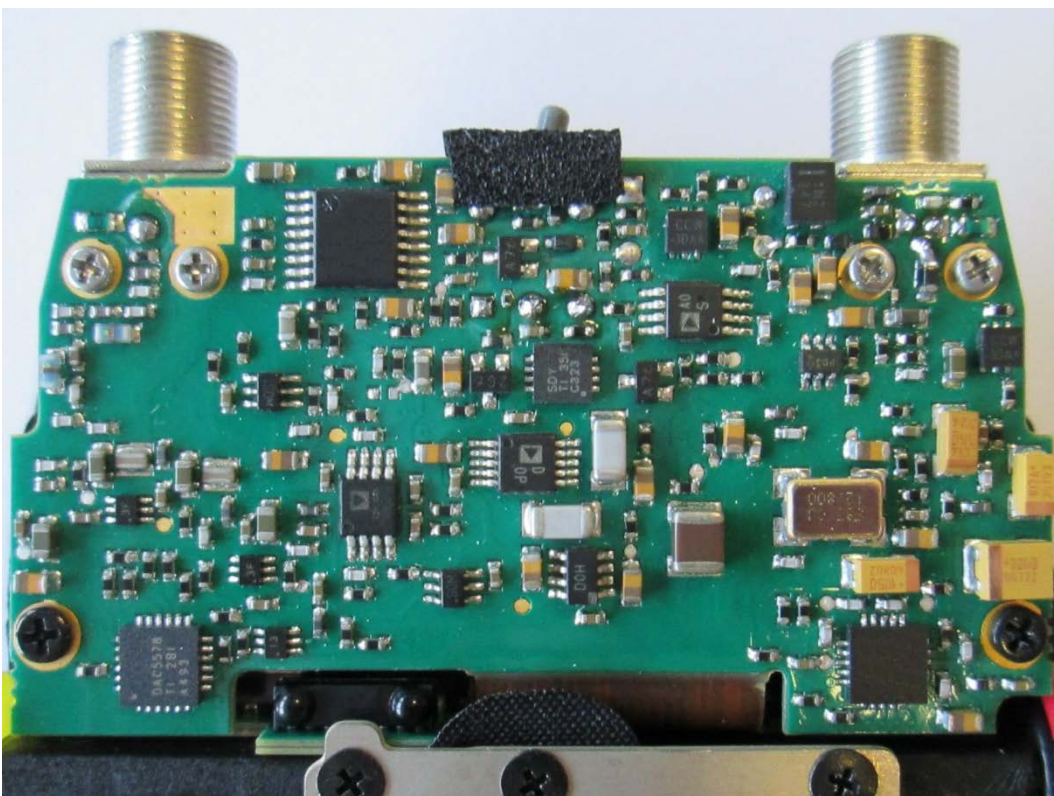


Dummy microphone LL1532 (delivered by the customer)

APPENDIX 4 - PHOTOGRAPHS OF EUT; INTERNAL VIEW

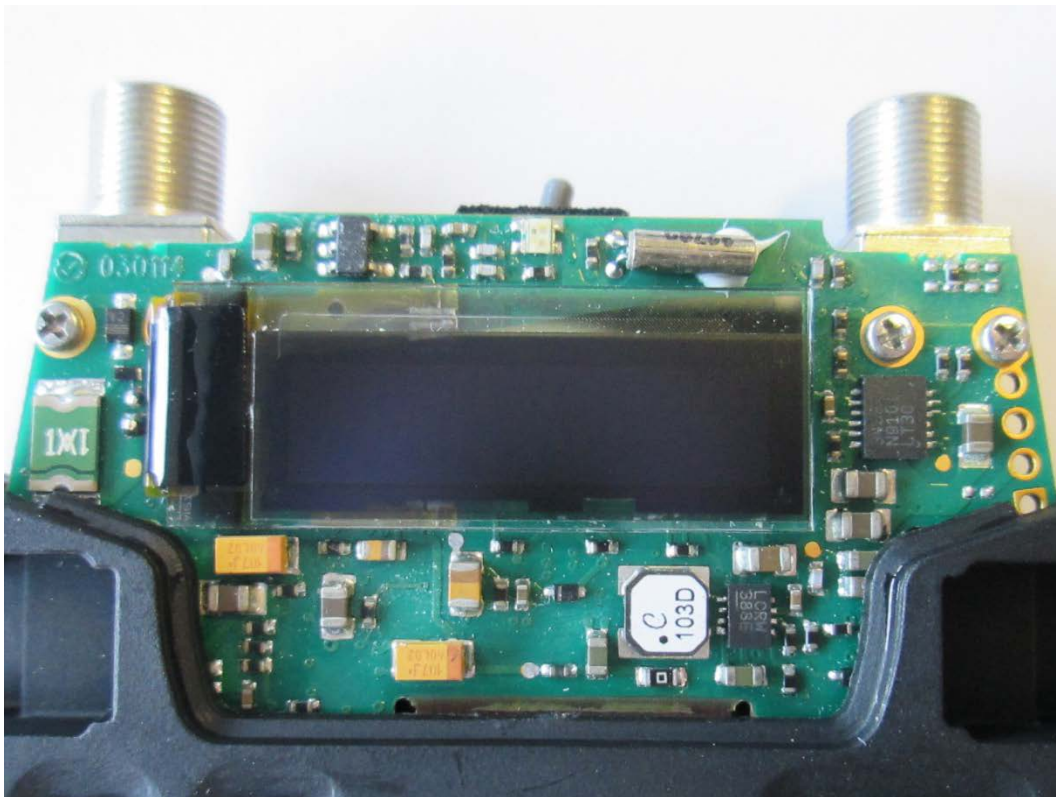


Main board of EUT # T1942218, top

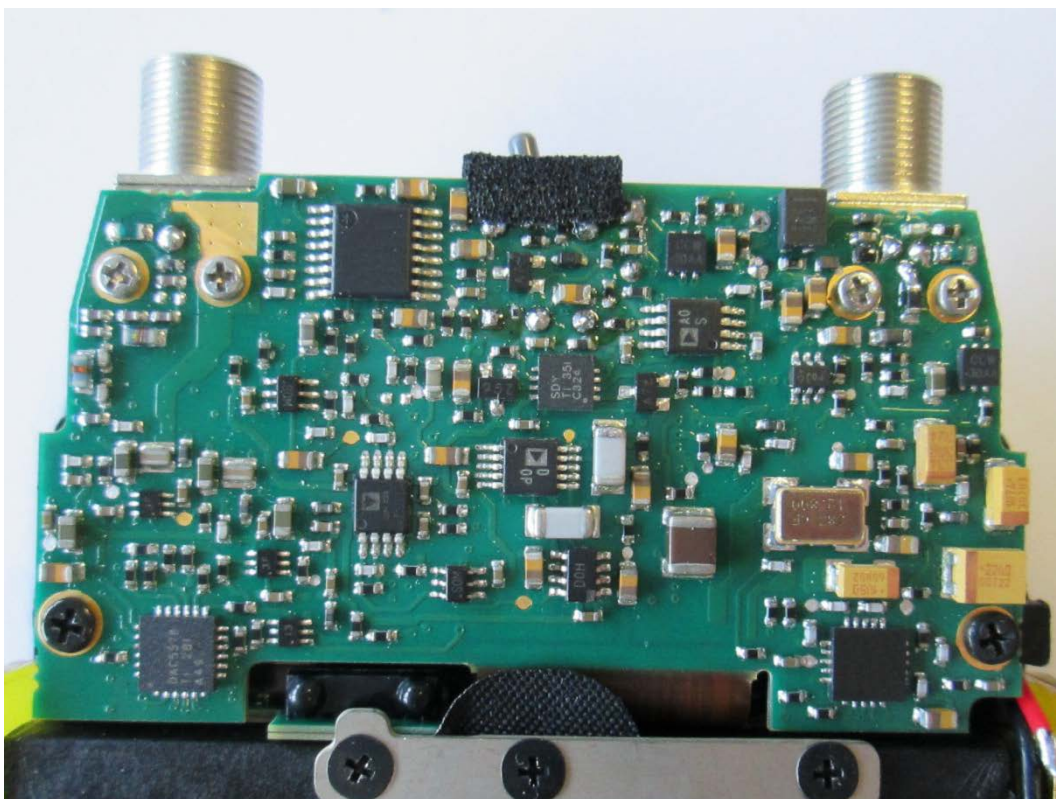


Main board of EUT # T1942218, bottom

FCC Radio Tests on WISYCOM SRL MTP40S



Main board of EUT # T1942219, top



Main board of EUT # T1942219, bottom