

Report Reference ID:	372719-1TRFWL
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Test specification:	Title 47 – Telecommunication Chapter I – Federal Communications Commission Subchapter B – Common carrier services Part 27 – Miscellaneous wireless communications services
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Applicant:	TEKO Telecom Srl. Via Meucci, 24/a I-40024 Castel S. Pietro Terme (BO) (Italy)	
Apparatus:	Medium Power Remote Unit	
Model:	TRU67E8AEWM/AC-WT	
FCC ID:	XM2-MP67E8AE	

Testing laboratory:	Nemko Italy Spa Via del Carroccio, 4 20853 Biassono (MB) – Italy Telephone: +39 039 2201201 Facsimile: +39 039 2201221
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	Name and title	Date
Tested by:	Rulun Poul P. Barbieri, Wireless/EMC Specialist	06/24/2019
Reviewed by:	R. Giampaglia, Wireless/EMC Specialist	06/24/2019

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Specification: FCC 27

Section 1: Report summary

Test specification

Specifications

Part 27 – Miscellaneous wireless communications services

1.2 Statement of compliance

Compliance

In the configuration tested the EUT was found compliant

Yes X No □

This report contains an assessment of apparatus against specifications based upon tests carried out on samples submitted at Nemko Spa. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 27. Radiated tests were conducted in accordance with ANSI C63.26-2015.

1.3 **Exclusions**

Exclusions None

1.4 Registration number

Test site FCC	682
ID number	

2159

Test report revision history

•	
Revision #	Details of changes made to test report
TRF	Original report issued
R1TRF	

1.6 Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

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Section 2: Summary of test results

2.1 FCC Part 27, test results			
Part	Methods	Test description	Verdict
	§ 935210 D05v01r03 (3.2)	AGC threshold	Pass
	§ 935210 D05v01r03 (3.3)	Out of band rejection	Pass
	§ 935210 D05v01r03 (3.4)	Occupied bandwidth	Pass
§27.50(c)	§ 935210 D05v01r03 (3.5)	Peak output power at RF antenna connector	Pass
§27.53(g)	§ 935210 D05v01r03 (3.6)	Spurious emissions at RF antenna connector	Pass
§27.53(g)	§ 935210 D05v01r03 (3.8)	Radiated spurious emissions	Pass
§27.54	§ 935210 D05v01r03 (3.7)	Frequency stability	N/A a)

Notes:

a) NOT APPLICABLE: Modulation/frequency conversion circuitry not in use. No frequency change in EUT (input and output have same frequency)



Specification: FCC 27

Section 3: Equipment under test (EUT) and application details

3.1 Applicant of	details		
Applicant	Name:	Teko Telecom Srl	
complete	Federal		
business name	Registration	0018963462	
	Number (FRN):		
	Grantee code	XM2	
Mailing address	Address:	Via Meucci, 24/a	
	City:	Castel S. Pietro Terme	
	Province/State:	Bologna	
	Post code:	40024	
	Country:	Italy	
	•		
3.2 Modular equipment			
a) Single modular	Single modular appro	oval	
approval	Yes □	No 🏻	
b) Limited single	Limited single modular approval		
modular approval	Yes ☐ No ⊠		
3.3 Product details			
FCC ID	Grantee code:	XM2	
	Product code:	-MP67E8AE	
Equipment class	B2I		
Description of	Booster		
product as it is	Model	TRU67E8AEWM/AC-WT	
marketed	name/number:	TROO7EOALWWW/AC-WT	
	Serial number:	1012791001	
3.4 Application	purpose		
Type of		fication	
application	☐ Change in id	entification of presently authorized equipment	
	Original FCC		
	☐ Class II perm	nissive change or modification of presently authorized	
	equipment		



Specification: FCC 27

Section 3: Equipment under test

3.5 Composite/related equipment			
a) Composite	The EUT is a composite device subject to an additional equipment		
equipment	authorization		
	Yes ⊠ No □		
b) Related	The EUT is part of a system that operates with, or is marketed with,		
equipment	another device that requires an equipment authorization		
	Yes □ No ⊠		
c) Related FCC ID	If either of the above is "yes":		
	\square has been granted under the FCC ID(s) listed below:		
	is in the process of being filled under the FCC ID(s) listed below:		
	is pending with the FCC ID(s) listed below:		
	has a mix of pending and granted statues under the FCC ID(s)		
	listed below:		
	i FCC ID: XM2-MP67E8AE		
	ii FCC ID:		

3.6 Sample inf	formation
Receipt date:	05/27/2019
Nemko sample ID number:	

3.7 EUT techn	ical specifications
Operating band:	Down Link: 617-652 MHz – Up Link: 663-698 MHz
Operating frequency:	Wideband
Modulation type:	LTE-FDD (QAM and QPSK)
Occupied bandwidth:	LTE: 1,4 MHz – 3 MHz – 5 MHz – 10MHz
Channel spacing:	standard
Emission designator:	LTE: D7W
RF Output	Down Link: 33dBm (2W) Up Link: N.A. (The EUT does not transmit over the air in the up-link direction)
Gain	Down Link: 38dB Up Link: N.A. (The EUT does not transmit over the air in the up-link direction)
Antenna type:	External Antenna is not provided, equipment that has an external 50 Ω RF connector
Power source:	100-240 Vac



Specification: FCC 27

Section 3: Equipment under test

3.8 Accessories and	d support equipment
	dentifies accessories used to exercise the EUT during testing:
Item # 1	
Type of equipment:	Master Unit - Subrack
Brand name:	Teko Telecom srl
Model name or number:	SUB-TRX-PSU
Serial number:	101083001
Nemko sample number:	
Connection port:	
Cable length and type:	
Item # 2	
Type of equipment:	Master Unit – Management Module
Brand name:	Teko Telecom srl
Model name or number:	TSPV-R
Serial number:	110942253
Nemko sample number:	
Connection port:	LAN port
Cable length and type:	
Item # 3	
Type of equipment:	Master Unit – Optical Module
Brand name:	Teko Telecom srl
Model name or number:	TTRU4W-S-M
Serial number:	110679007
Nemko sample number:	
Connection port:	DL/UL RF connector (to connect to the base station)
	Optical port (to connect to remote unit)
Cable length and type:	
Item # 4	
Type of equipment:	Master Unit – Power Supply
Brand name:	Teko Telecom srl
Model name or number:	TPSU/AC
Serial number:	081063004
Nemko sample number:	
Connection port:	
Cable length and type:	



Specification: FCC 27

3.9 Operation of the EUT during testing

In down-link direction, normal working at max gain with max RF power **Details:**

output.

3.10 EUT setup diagram

In this system, Remote Unit is the EUT. Master Unit includes only management module and optical module (to convert RF signal in optical signal in down link direction and viceversa optical signal in RF signal in up link direction). As described in "Operational description", master unit is connected directly to base station, so the system doesn't use another equipment (under another FCC ID) to exercise the EUT. Signal generator is linked directly to the RF connector of optical module in the Master Unit.

Test setup for output power, occupied bandwidth, spurious emissions:



Procedure

Connect the signal modulated generator to the input of the EUT, so that the EUT works at the max gain. Raise the input level to the EUT until reach the maximum output power. Connect the spectrum analyzer to the RF output connector of the EUT.



Judgment

None

Product: TRU67E8AEWM/AC-WT

Specification: FCC 27

Section 4: Engineering considerations				
4.1 Modificatio	ns incorporated in the EUT			
Modifications	Modifications performed to the EUT during this assessment None ☑ Yes ☐, performed by Client ☐ or Nemko ☐ Details:			
4.2 Deviations	from laboratory tests procedures			
Deviations	Deviations from laboratory test procedures None Yes - details are listed below:			
4.3 Technical j	udgment			



Specification: FCC 27

Section 5: Test conditions

5.1 Deviations from laboratory tests procedures

No deviations were made from laboratory test procedures.

5.2 Test conditions, power source and ambient temperatures					
Normal temperature, humidity and air pressure test conditions	Temperature: 15–30 °C Relative humidity: 20–75 % Air pressure: 86–106 kPa				
	When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorded and stated.				
Power supply range:	The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages ±5 %, for which the equipment was designed.				



Product: TRU67E8AEWM/AC-WT

Section 5: Test conditions, continued

5.3 Measurement uncertainty						
EUT	Туре	Test	Range and Setup features	Measurement Uncertainty	Notes	
		Frequency error	0.001 MHz ÷ 40 GHz	0.08 ppm	(1)	
			10 kHz ÷ 30 MHz	1.0 dB	(1)	
		Carrier power	30 MHz ÷ 18 GHz	1.5 dB	(1)	
		RF Output Power	18 MHz ÷ 40 GHz	3.0 dB	(1)	
		Adjacent channel power	1 MHz ÷ 18 GHz	1.6 dB	(1)	
			10 kHz ÷ 26 GHz	3.0 dB	(1)	
		Conducted spurious emissions	26 GHz ÷ 40 GHz	4.5 dB	(1)	
		Intermodulation attenuation	1 MHz ÷ 18 GHz	2.2 dB	(1)	
		Attack time – frequency behaviour	1 MHz ÷ 18 GHz	2.0 ms	(1)	
		Attack time – power behaviour	1 MHz ÷ 18 GHz	2.5 ms	(1)	
		Release time – frequency behaviour	1 MHz ÷ 18 GHz	2.0 ms	(1)	
	Conducted	Release time – power behaviour	1 MHz ÷ 18 GHz	2.5 ms	(1)	
Transmitter	Conducted	Transient behaviour of the transmitter– Transient frequency behaviour	1 MHz ÷ 18 GHz	0.2 kHz	(1)	
		Transient behaviour of the transmitter – Power level slope	1 MHz ÷ 18 GHz	9%	(1)	
		Frequency deviation - Maximum permissible frequency deviation	0.001 MHz ÷ 18 GHz	1.3%	(1)	
		Frequency deviation - Response of the transmitter to modulation frequencies above 3 kHz	0.001 MHz ÷ 18 GHz	0.5 dB	(1)	
		Dwell time	-	3%	(1)	
		Hopping Frequency Separation	0.01 MHz ÷ 18 GHz	1%	(1)	
		Occupied Channel Bandwidth	0.01 MHz ÷ 18 GHz	2%	(1)	
		Modulation Bandwidth	0.01 MHz ÷ 18 GHz	2%	(1)	
		Radiated spurious emissions	10 kHz ÷ 26.5 GHz	6.0 dB	(1)	
	Radiated	radiated spurious cirilssions	26.5 GHz ÷ 40 GHz	8.0 dB	(1)	
	Tiadiated	Effective radiated power	10 kHz ÷ 26.5 GHz	6.0 dB	(1)	
		transmitter	26,5 GHz ÷ 40 GHz	8.0 dB	(1)	
		Radiated spurious emissions	10 kHz ÷ 26.5 GHz	6.0 dB	(1)	
	Radiated	riadiated spurious erriissions	26.5 GHz ÷ 40 GHz	8.0 dB	(1)	
Receiver		Sensitivity measurement	1 MHz ÷ 18 GHz	6.0 dB	(1)	
	Conducted	Conducted spurious emissions	10 kHz ÷ 26 GHz	3.0 dB	(1)	
	Conducted	Conducted Spanious emissions	26 GHz ÷ 40 GHz	4.5 dB	(1)	

⁽¹⁾ The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k = 2 which has been derived from the assumed normal probability distribution with infinite degrees of freedom and for a coverage probability of 95 %



Specification: FCC 27

Equipment	Manufacturer	Model No.	Asset/Serial No.	Next cal.
/ector Signal				
Generator	Agilent	N5172B EXG	MY53051238	05/2021
/ector Signal	Agilent	E4438C ESG	MY45094485	08/2019
Generator	•			
Spectrum Analyzer	Agilent	N9030A PXA	MY53120882	12/2019
rilog Broad Band Intenna 25-8000 MHz	Schwarzbeck	VULB 9162	VULB 9162-25	07/2021
ntenna 1-18 GHz	Schwarzbeck	STLP 9148	STPL 9148-123	07/2021
ouble ridge horn ntenna (4 ÷ 40 GHz)	RFSpin	DRH40	061106A40	02/2020
Broadband preamplifier 118 ÷ 40 GHz)	Miteq	JS44-18004000-35-8P-R	1.627	09/2019
Broadband preamplifier -18 GHz	Schwarzbeck	BBV 9718	9718-137	08/2019
EMI receiver 20 Hz ÷ 8 GHz	R&S	ESU8	100202	01/2020
MI receiver 2 Hz ÷ 44 GHz	R&S	ESW44	101620	05/2019
Hydraulic revolving slatform	Nemko	RTPL 01	4.233	NCR
urning-table	R&S	HCT	835 803/03	NCR
ntenna mast	R&S	HCM	836 529/05	NCR
ontroller	R&S	HCC	836 620/7	NCR
emi-anechoic namber	Nemko	10m semi-anechoic chamber	530	09/2021
hielded room	Siemens	10m control room	1947	NCR
Semi-anechoic chamber	Nemko	10m semi-anechoic chamber	70	NCR
Shielded Room	Siemens	3m semi-anechoic chamber	3	NCR
lotor controller	Emco	1051-25	9012-1559	NCR
lotor controller	Emco	1061-1.521	9012-1508	NCR
ntenna Tower	Emco	2071-2	9601-1940	NCR
Controller pole/table	Emco	2090	9511-1099	NCR

Note: N/A = Not Applicable, NCR = No Cal Required, COU = CAL On Use (*) Equipment supplied by manufacturer's



Specification: FCC 27

Appendix A: Test results

Clause 935210 D05v01r01 (3.2) AGC threshold

Measure of EUT AGC Threshold

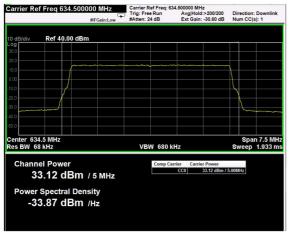
Test date: 05/27/2019 to 06/24/2019

Test results: Pass

Special notes

Broadband amplifiers: AWGN test signal used (5 MHz LTE channel)

Test data



AWGN signal, nominal input signal



AWGN signal, nominal input signal + 1dB



Specification: FCC 27

Clause 935210 D05v01r01 (3.3) Out of band rejection

Out of Band Rejection – Test for rejection of out of band signals.

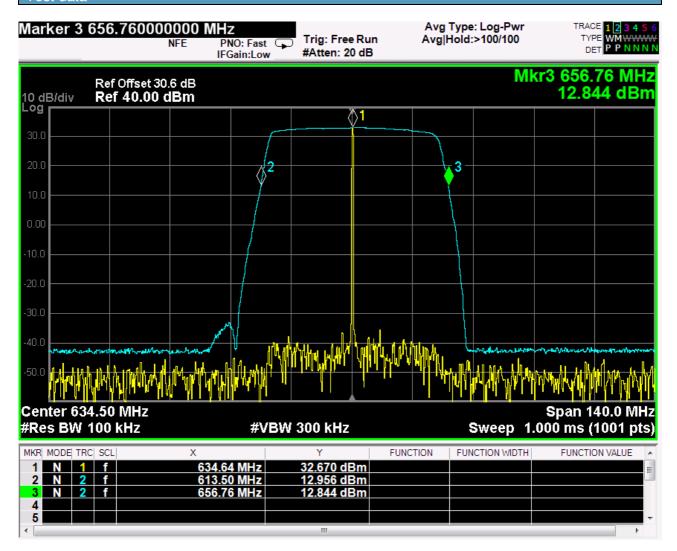
Test date: 05/27/2019 to 06/24/2019

Test results: Pass

Special notes

_

Test data





Specification: FCC 27

Clause 935210 D05v01r01 (3.4) Occupied bandwidth

A 26 dB bandwidth measurement shall be performed on the input signal and the output signal; alternatively, the 99% OBW can be measured and used.

Test date: 05/27/2019 to 06/24/2019

Test results: Pass

Special notes

- Broadband amplifiers: AWGN test signal used (5 MHz LTE channel)

Active Carrier(s) 1, Span 10 MH Sweep 10.27 n

99.00 %

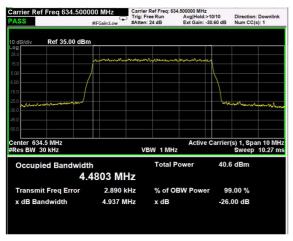
-26.00 dB

Specification: FCC 27

Clause 935210 D05v01r01 (3.4) Occupied bandwidth, continued

Test data

AWGN signal, nominal input signal



tput

Carrier Ref Freq 634.500000 MHz

Ref -5.00 dBm

enter 634.5 MHz Res BW 30 kHz

Occupied Bandwidth

Transmit Freq Error

x dB Bandwidth

4.4811 MHz

3.201 kHz

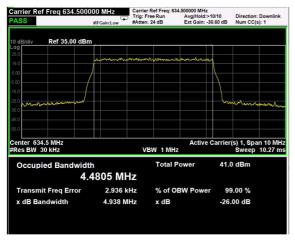
4.938 MHz

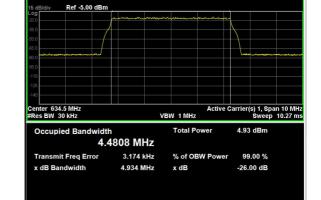
Carrier Ref Freq 634.500000 MHz
PASS

Carrier Ref Freq: 634.500000 MHz
Trig: Free Run
Avg|Hold:>10/10

Output

AWGN signal, nominal input signal + 3dB





VBW 1 MHz

x dB

Input

% of OBW Power

Output Input



Specification: FCC 27

Clause 27.50(c) Peak output power at RF antenna connector

- § 27.50(c) The following power and antenna height requirements apply to stations transmitting in the 600 MHz band and the 698-746MHz:
 - 3) Fixed and base stations transmitting a signal with an emission bandwidth greater than 1 MHz must not exceed an ERP of 1000 watts/MHz and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 1000 watts/MHz ERP in accordance with Table 3 of this section;
 - 11) Licensees may employ equipment operating in compliance with either the measurement techniques described in paragraph (b)(11) of this section or a Commission-approved average power technique. In both instances, equipment employed must be authorized in accordance with the provisions of § 27.51

Test date: 05/27/2019 to 06/24/2019

Test results: Pass

Special notes

Broadband amplifiers: AWGN test signal used (5 MHz LTE channel)



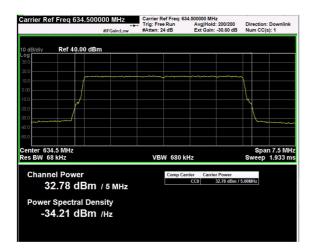
Specification: FCC 27

Clause 27.50(c) Peak output power at RF antenna connector

Test data

AWGN signal, nominal input signal

Test data						
Direction	Modulation	Frequency (MHz)	RF output Power (dBm)	RF output channel Power (W)	RF output Power (W/MHz)	PAR (dB)
Down-link	AWGN (LTE, 5MHz)	634.5	32.78	1.87	0.374	11.48





PAR measure is performed by the "CCDF" function installed on Spectrum analyzer that provides average power (the same measured with "Channel power" function), peak power and PAR.

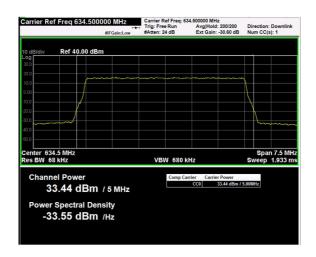


Test results Product: TRU67E8AEWM/AC-WT

Specification: FCC 27

AWGN signal, nominal input signal + 3dB

Test data					
Direction	Modulation	Frequency (MHz)	RF output Power (dBm)	RF output channel Power (W)	RF output Power (W/MHz)
Down-link	AWGN (LTE, 5MHz)	634.5	33.44	2.21	0.442





Specification: FCC 27

Clause 27.53(g) Spurious emissions at RF antenna connector

(g) For operations in the 600 MHz band and the 698–746 MHz band the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB.

Compliance with the provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Test date: 05/27/2019 to 06/24/2019

Test results: Pass

Special notes

- Broadband amplifiers: AWGN test signal used (5 MHz LTE channel)



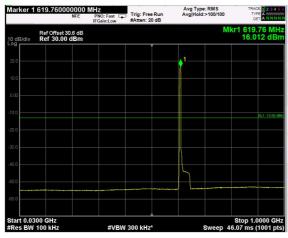
Clause 27.53(g) Spurious emissions at RF antenna connector, continued

Test data			
See Plots below			
Spurious emissions me	easurement results:		
Frequency (MHz)	Spurious emission (dBm)	Limit (dBm)	Margin (dB)
Low channel			
First channel	Negligible	-13	
Mid channel			
634.5 MHz	Negligible	-13	
High channel			<u> </u>
Last channel	Negligible	-13	

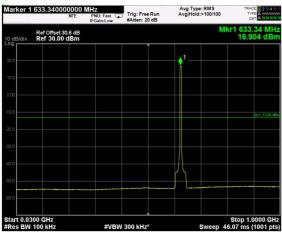


Test data, continued: spurious emissions at antenna terminal

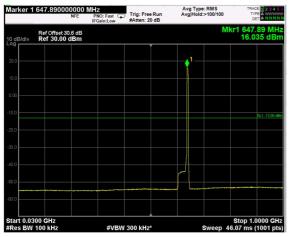
AWGN signal



30MHz-1GHz, First Channel



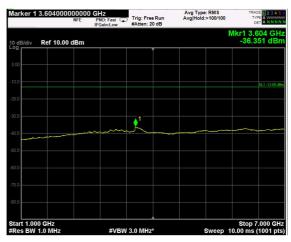
30MHz-1GHz, Middle Channel



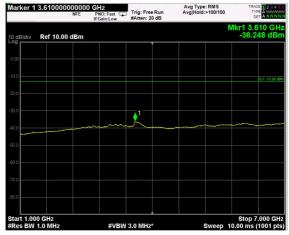
30MHz-1GHz, Last Channel



1GHz-7GHz, First Channel



1GHz-7GHz, Middle Channel

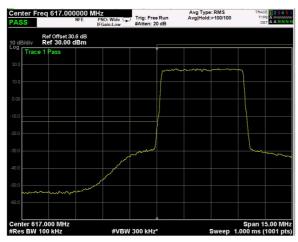


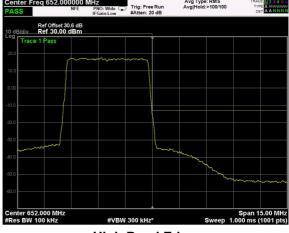
1GHz-7GHz, Last Channel

Specification: FCC 27

Test data, continued: band edges Inter modulation

AWGN signal, 1 Carrier, Nominal input signal

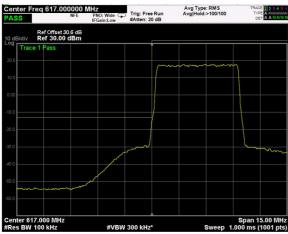




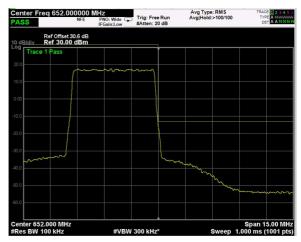
Low Band Edge

High Band Edge

AWGN signal, 1 Carrier, Nominal input signal + 3dBm







High Band Edge

Product: TRU67E8AEWM/AC-WT

AWGN signal, 2 Carrier, Nominal input signal

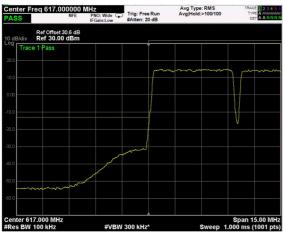




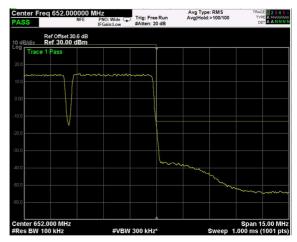


High Band Edge

AWGN signal, 2 Carrier, Nominal input signal + 3dBm



Low Band Edge



High Band Edge



Specification: FCC 27

Clause 27.53(g) Radiated Spurious emissions

Test date: 05/27/2019 to 06/24/2019

(g) For operations in the 600 MHz band and the 698–746 MHz band the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB.

Compliance with the provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed

Test results: Pass		
Special notes		



Specification: FCC 27

Clause 27.53(g) Radiated spurious emissions, continued

Test data

The D.U.T. was positioned according to the radiated emissions set-up

The D.U.T. antenna connector was terminated by a 50 Ω shielded dummy load.

The spectrum was searched from 30 MHz to 1 GHz (RBW 100 kHz) & 1 GHz (RBW 1 MHz) to the tenth harmonic of the carrier.

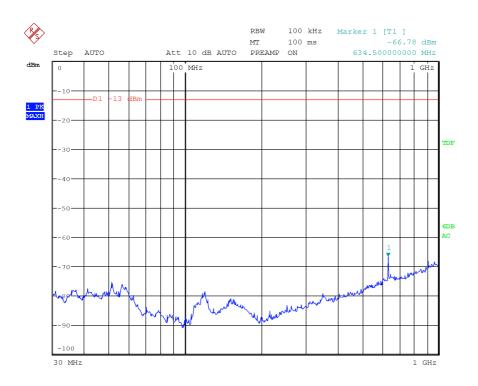
There were no emissions detected above the noise floor which was at least 20 dB below the specification limit.

Spurious emissions measurement results:

Spurious erriissioi	is illeasurement rest			
Frequency	Polarization.	Field strength	Limit	Margin
(MHz)	V/H	(dBm)	(dBm)	(dB)
Low channel			1	
First Channel	V/H	Negligible	-13	
Mid channel				
634.5	V/H	Negligible	-13	
High channel				
Last Channel	V/H	Negligible	-13	

Note: Field strength includes correction factor of antenna, cable loss, amplifier, and attenuators where applicable.

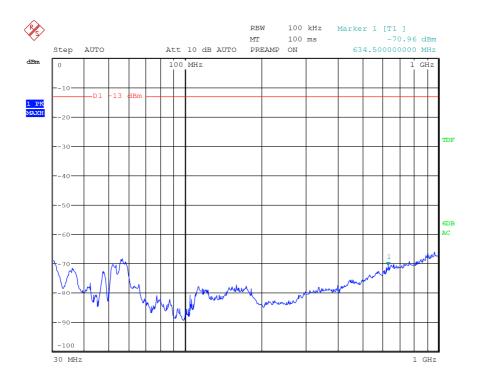




Date: 19.JUN.2019 10:15:15

30MHz-1GHz - H Pol

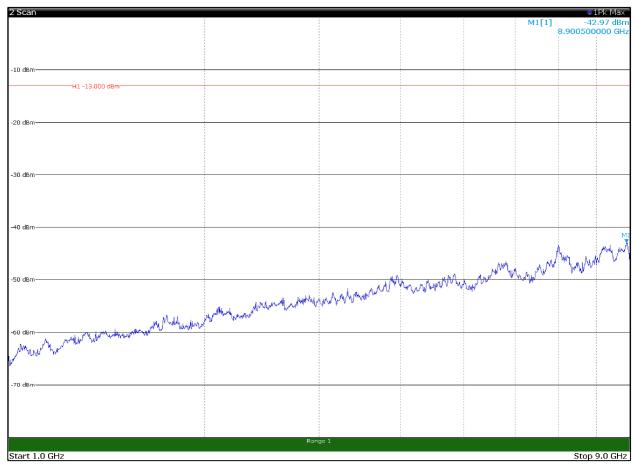




Date: 19.JUN.2019 10:12:30

30MHz-1GHz - V Pol

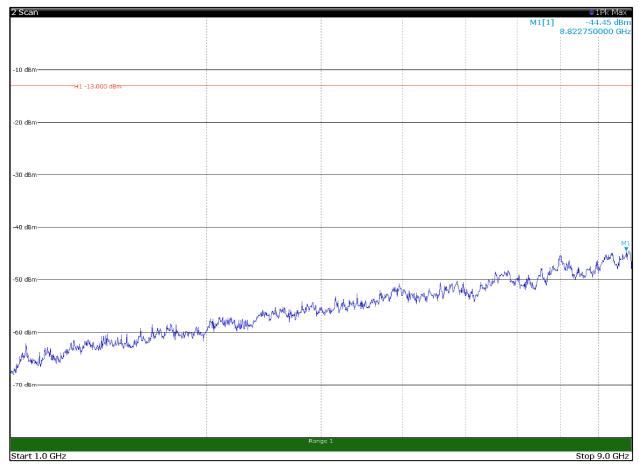




08:17:41 18.06.2019 Page 1/1

1GHz-9GHz - H Pol





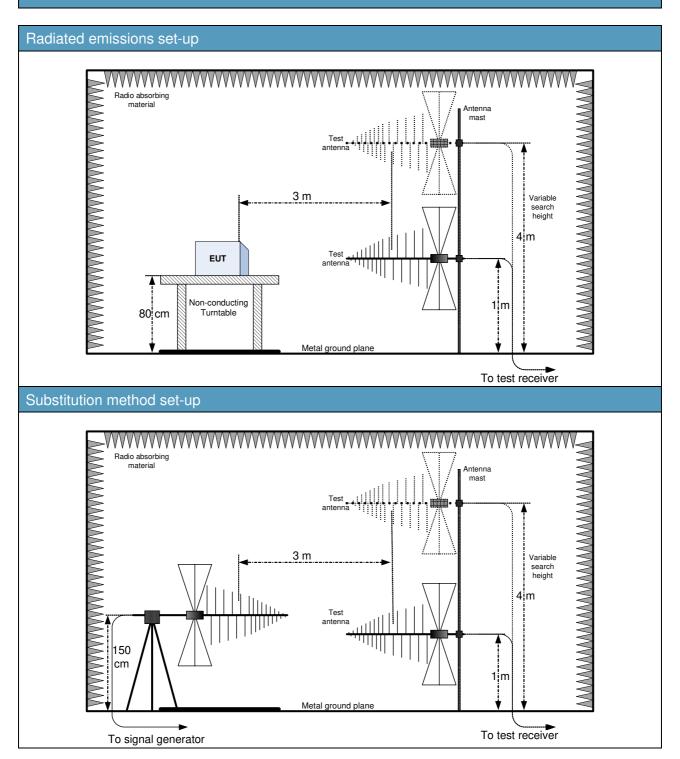
08:14:37 18.06.2019 Page 1/1

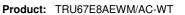
1GHz-9GHz - V Pol



Specification: FCC 27

Appendix B: Block diagrams of test set-ups

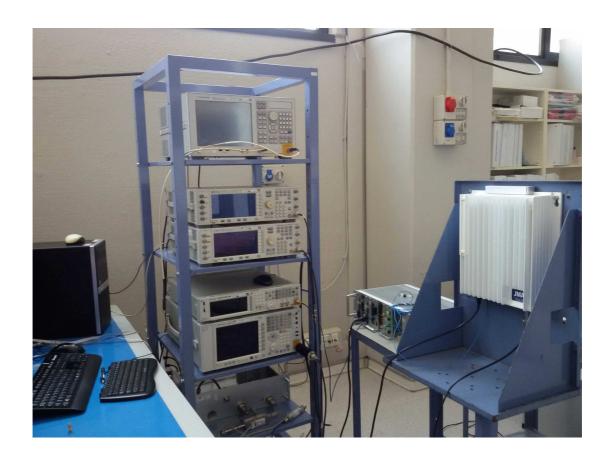






Appendix C: EUT Photos

Photo Set up





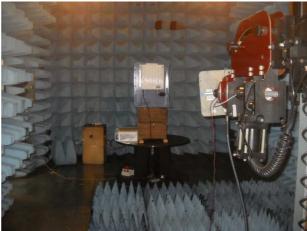




Photo EUT









END OF REPORT