MEASUREMENT REPORT

EN 300 330 V2.1.1

Applicant: BEIJING STRONGLINK TECHNOLOGY CO,. LTD.

Address: Building C No.39 Xi'erqi street Haidian district, Beijing, 100085 China

Product: MIFARE MODULE

Model No.: SL025M_V3.0

Standards: ETSI EN 300 330 V2.1.1 (2017-02)

Result: Complies

Test Date: April 15 ~ 25, 2019

Reviewed By : Sunny Sun
(Sunny Sun)

Approved By : Robin Wu
(Robin Wu)

The test results relate only to the samples tested.
The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.
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Revision History

Report No.	Version	Description	Issue Date	Note
1903RSU039-E1	Rev. 01	Initial report	05-05-2019	Valid

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1. General Information

1.1. Applicant

BEIJING STRONGLINK TECHNOLOGY CO,. LTD.
Building C No.39 Xi'erqi street Haidian district, Beijing, 100085 China

1.2. Manufacturer

BEIJING STRONGLINK TECHNOLOGY CO,. LTD.
Building C No.39 Xi'erqi street Haidian district, Beijing, 100085 China

1.3. Testing Facility

Test Site

MRT Technology (Suzhou) Co., Ltd

Test Site Location

D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- **MRT facility is a FCC registered (MRT Reg. No. 893164) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.**
- **MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.**
- **MRT facility is a VCCI registered (R-20025, G-20034, C-20020, T-20020) test laboratory with the site description on file at VCCI Council.**
- **MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, EU and TELEC Rules.**

Accredited Laboratory

A2LA has accredited

MRT TECHNOLOGY (SUZHOU) CO., LTD.

Suzhou, Jiangsu, People's Republic of China

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Presented this 6th day of September 2016.

Senior Director of Quality and Communications
For the Accreditation Council
Certificate Number 3628.01
Valid to August 31, 2018

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

1.4. Feature of Product

Product Name:	MIFARE MODULE
Model No.:	SL025M_V3.0
RFID:	13.56MHz
Antenna Type:	PCB Antenna
Type of modulation:	ASK

1.5. Standards Applicable for Testing

The EUT complies with the requirements of ETSI EN 300 330 V2.1.1

2. Test Summary

Clause (EN 300330)	Test Parameter	Result (Pass/Fail)	Remark
Transmitter Parameter			
4.3.1	Permitted range of operating frequencies	Pass	--
4.3.2	Operating frequency ranges	Pass	--
4.3.3	Modulation Bandwidth	Pass	--
4.3.4	Transmitter H-field requirements	Pass	--
4.3.5	Transmitter RF carrier current	N/A	Note 3
4.3.6	Transmitter radiated E-field requirements	N/A	Note 3
4.3.7	Transmitter conducted spurious emissions	N/A	Note 3
4.3.8	Transmitter radiated spurious domain emission limits < 30 MHz	Pass	--
4.3.9	Transmitter radiated spurious domain emission limits > 30 MHz	Pass	--
4.3.10	Transmitter Frequency stability	N/A	Note 3
Receiver Parameter			
4.4.2	Receiver spurious emissions	N/A	Note 3
4.4.3	Adjacent channel selectivity	N/A	Note 3
4.4.4	Receiver blocking or desensitization	N/A	Note 3

Note:

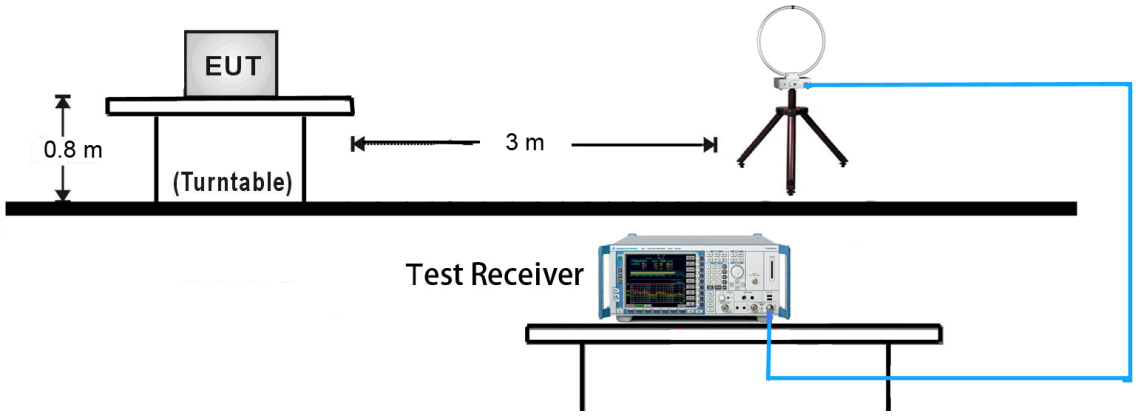
1. This device belongs to Product Class 3.
2. For radiated spurious emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.
3. “N/A” means that the test item is not applicable, and the detailed information refers to relevant section.

3. Permitted Range of Operating Frequencies

3.1. Limit

The permitted range of operating frequencies for intentional emissions shall be entirely within the frequency bands in table 1.

3.2. Test Setup



3.3. Test Procedure

Refer to ETSI EN 300 330 V2.1.1 (2017-02) Clause 6.2.2

3.4. Test Result

Test Engineer	Snake Ni	Test Site	AC1
Test Time	04-22-2019	Temperature	23°C
Test Mode	Mode1	Relative Humidity	50%RH

Test Conditions		Frequency (MHz)
T_{NOM} (25℃)	V_{NOM} (AC 230V)	13.560
Test Result		Pass

Note 1: The operating frequency of the EUT is 13.560MHz and it is declared by the manufacturer.

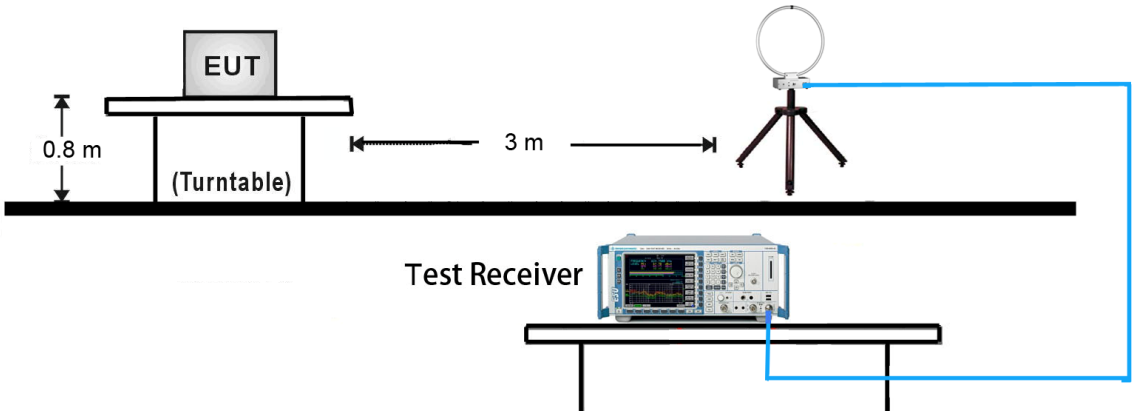
Note 2: 11.810MHz < 13.560MHz < 15.310MHz.

4. Operating Frequency Ranges

4.1. Limit

The operating frequency ranges for intentional emissions shall be entirely within the frequency bands in table 1.

4.2. Test Setup



4.3. Test Procedure

Refer to ETSI EN 300 330 V2.1.1 (2017-02) Clause 6.2.2

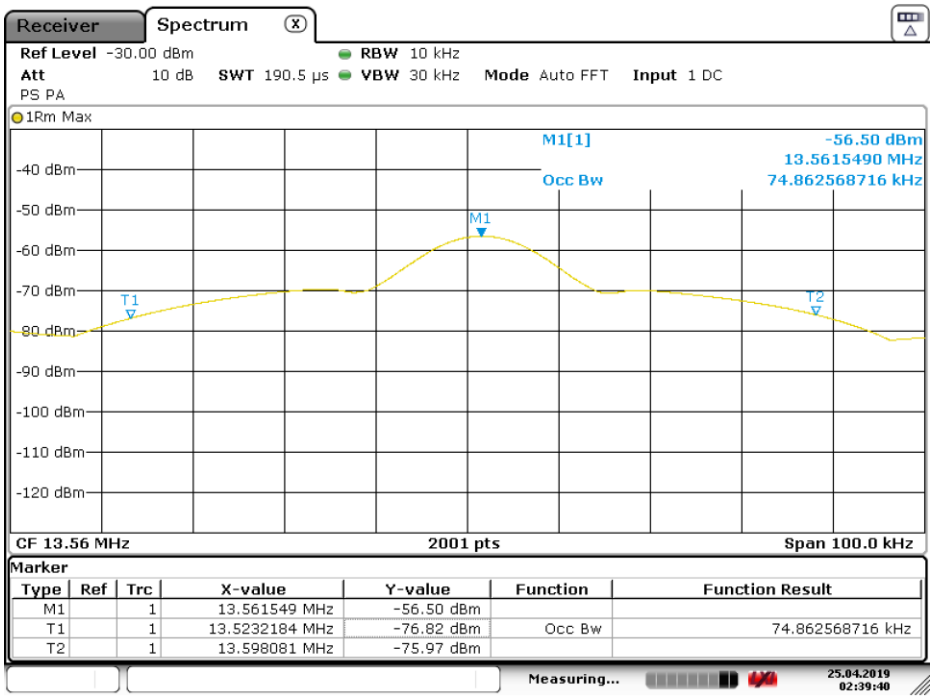
4.4. Test Result

Test Engineer	Snake Ni	Test Site	AC1
Test Time	04-25-2019	Temperature	23°C
Test Mode	Mode1	Relative Humidity	50%RH

Test Conditions		Low Frequency (F_L) (MHz)	High Frequency (F_H) (MHz)	Center Frequency (F_C) (MHz)
T_{NOM} (25℃)	V_{NOM} (AC 230V)	13.523	13.598	13.562
Test Result		Pass		

Note: 11.810MHz < 13.562MHz < 15.310MHz.

Operating Frequency Ranges



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5. Modulation Bandwidth

5.1. Limit

The modulation bandwidth shall be within the assigned frequency band see table 1 or ±7,5 % of the carrier frequency whichever is the smallest. For RFID and EAS Systems, the modulation bandwidth shall be within the transmitter emission boundary of figures I.1, I.2, I.3 and I.4 of ETSI EN 300 330 V2.1.1 (2017-02).

The EUT belongs to the narrowband RFID, and the figure I.4 of ETSI EN 300 330 V2.1.1 (2017-02) as below applies to the EUT.

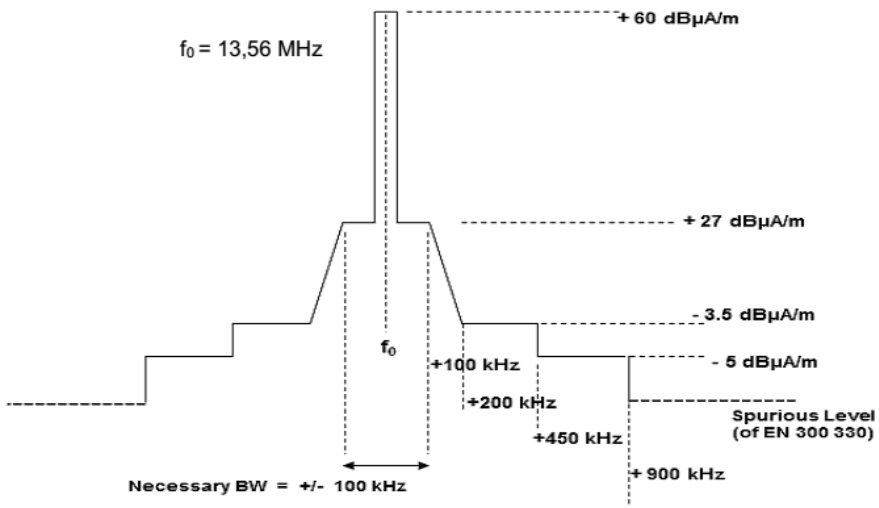
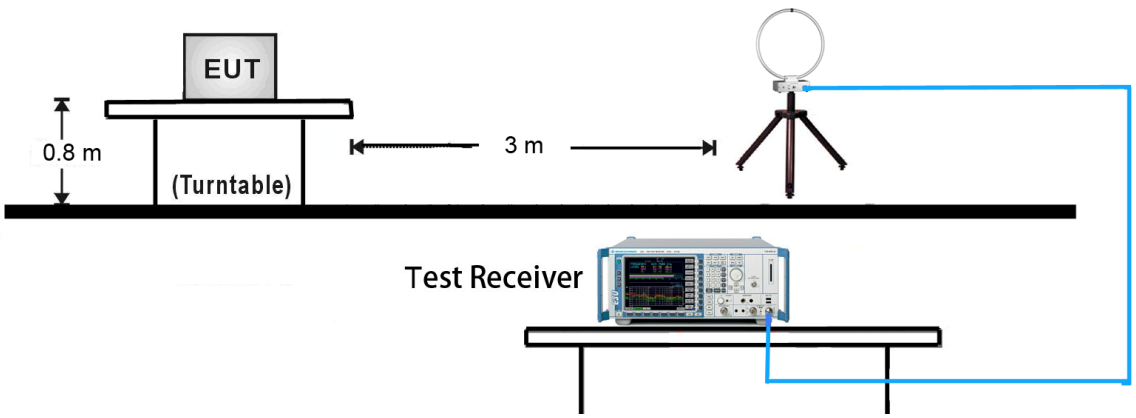


Figure I.4: Spectrum mask limit for narrowband RFIDs (incl. NFC application) in the 13,56 MHz range

5.2. Test Setup



5.3. Test Procedure

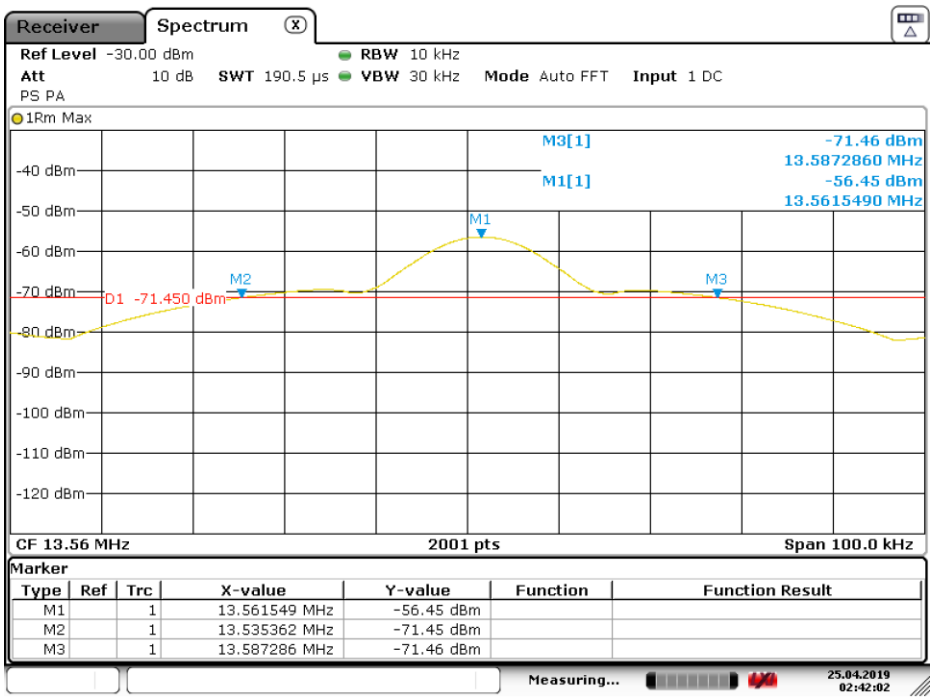
Refer to ETSI EN 300 330 V2.1.1 (2017-02) Clause 6.2.3

5.4. Test Result

Test Engineer	Snake Ni	Test Site	AC1
Test Time	04-25-2019	Temperature	23°C
Test Mode	Mode1	Relative Humidity	50%RH

Test Conditions		Low Frequency (F_L) (MHz)	F_L Limit (MHz)	High Frequency (F_H) (MHz)	F_H Limit (MHz)
T_{NOM} (25℃)	V_{NOM} (AC 230V)	13.535	> 12.660	13.587	< 14.460
Test Result		Pass			

Modulation Bandwidth



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6. Transmitter H-field Requirements

6.1. Limit

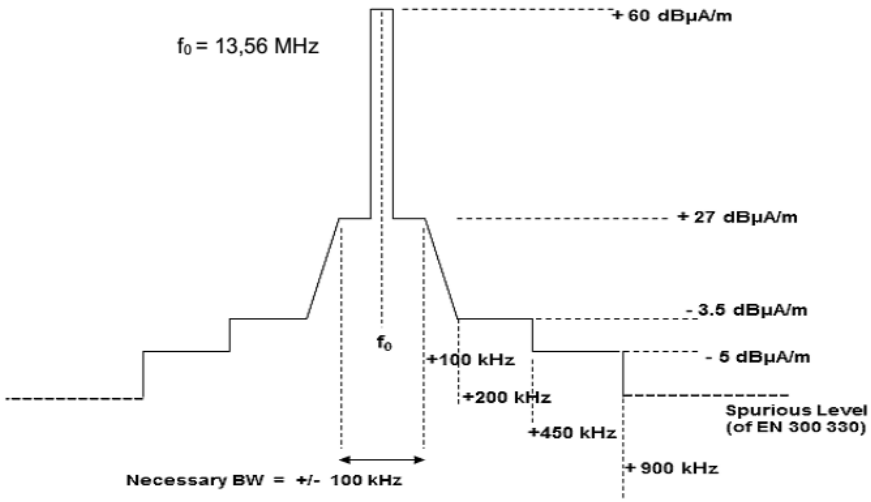
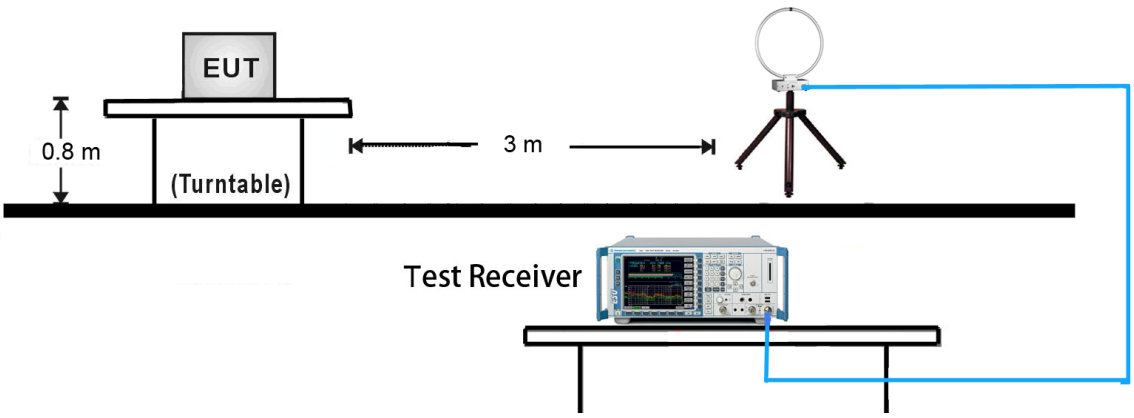


Figure I.4: Spectrum mask limit for narrowband RFIDs (incl. NFC application) in the 13,56 MHz range

6.2. Test Setup



6.3. Test Procedure

Refer to ETSI EN 300 330 V2.1.1 (2017-02) Clause 6.2.4

6.4. Test Result

Test Engineer	Bacon Dong	Test Site	AC1
Test Time	04-15-2018	Temperature	23°C
Test Mode	Mode1	Relative Humidity	50%RH

Frequency (MHz)	Reading Level (dBuV/m)	Factor	3M Measure Level (dBuV/m)	10M Measure Level (dBuV/m)	10M Measure Level (dBuA/m)	10M Limit (dBuA/m)	Margin (dB)
Face On							
13.075	19.8	19.8	39.6	29.1	-22.4	-5.0	-17.4
13.344	27.0	19.8	46.8	36.3	-15.2	-3.5	-11.7
13.418	28.3	19.9	48.2	37.7	-13.8	8.7	-22.5
13.493	30.0	19.9	49.9	39.4	-12.1	27.0	-39.1
13.553	47.8	19.9	67.7	57.2	5.7	60.0	-54.3
13.642	28.5	19.9	48.4	37.9	-13.6	27.0	-40.6
13.702	25.4	19.9	45.3	34.8	-16.7	14.8	-31.5
13.777	25.4	19.9	45.3	34.8	-16.7	-3.5	-13.2
14.045	12.5	19.9	32.4	21.9	-29.6	-5.0	-24.6
Face Off							
13.000	13.3	19.8	33.1	22.6	-28.9	-5.0	-23.9
13.344	23.8	19.8	43.6	33.1	-18.4	-3.5	-14.9
13.418	23.6	19.9	43.5	33.0	-18.5	8.7	-27.2
13.493	24.4	19.9	44.3	33.8	-17.7	27.0	-44.7
13.553	44.6	19.9	64.5	54.0	2.5	60.0	-57.5
13.627	21.5	19.9	41.4	30.9	-20.6	27.0	-47.6
13.702	22.1	19.9	42.0	31.5	-20.0	14.8	-34.8
13.777	17.3	19.9	37.2	26.7	-24.8	-3.5	-21.3
14.045	10.2	19.9	30.1	19.6	-31.9	-5.0	-26.9

Note 1: Measure Level = Reading Level + Factor.

Note 2: L2 = L1 + 20 log(d1/d2), L2 = 10M Measure Level, L1 = 3M Measure Level.

Note 3: For measuring equipment calibrated in dBuV, the reading should be reduced by 51.5dB to be converted to dBuA/m.

Note 4: The Max EIRP = E_{Max} + 20*log(d_{Meas}) - 104.7 = (67.7 + 20*1og(3) - 104.7) dBm = -27.46 dBm.

7. Transmitter RF Carrier Current

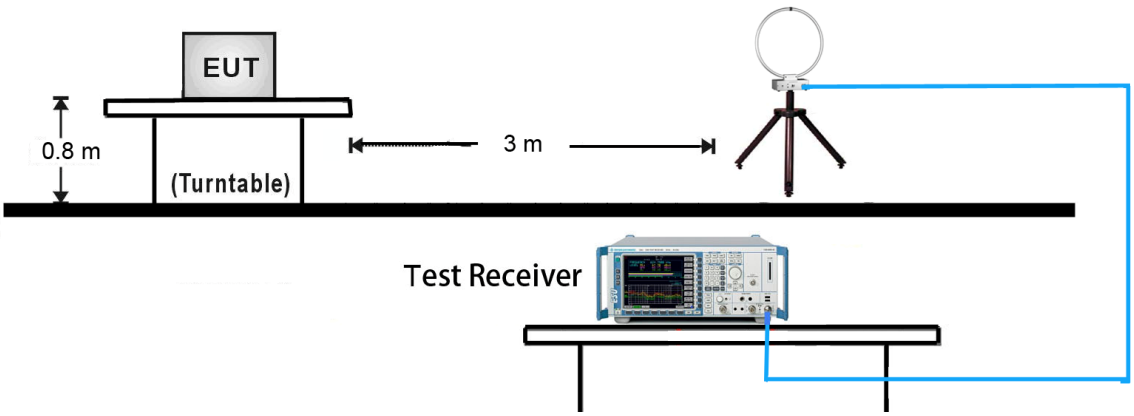
7.1. Limit

Limit for RF carrier current × antenna area (for Product Class 3 only)	
Frequency range (MHz)	RF carrier current × antenna area, dBAm2
0.119 ≤ f < 0.135	40 descending 3 dB/oct above 30 KHz (see note)

Note: Limit is 10 $dBAm^2$ for the following spot frequencies:

60 kHz ± 250 Hz, 75 kHz ± 250 Hz, 77.5 kHz ± 250 Hz and 129.1 kHz ± 500 Hz.

7.2. Test Setup



7.3. Test Procedure

Refer to ETSI EN 300 330 V2.1.1 (2017-02) Clause 6.2.5

7.4. Test Result

The transmitter in the EUT is belongs to Product Class 1 and this requirement applies to Product Class 3 only, therefore this requirement does not apply.

8. Transmitter Radiated E-field

8.1. Limit

In the frequency range 9 kHz to 4.78 MHz, the limits of H_{ef} follow the H-fields limits, H_f, as given in clause 4.3.4.3, table 2 with an additional correction factor C. The factor given below is specific for a 10m measuring distance.

The limit $H_{EF} = H_F + C$

where:

$$C = 20 \times \log (F_C / 4{,}78 \times 10\ 6\ ) \text{ dB};$$

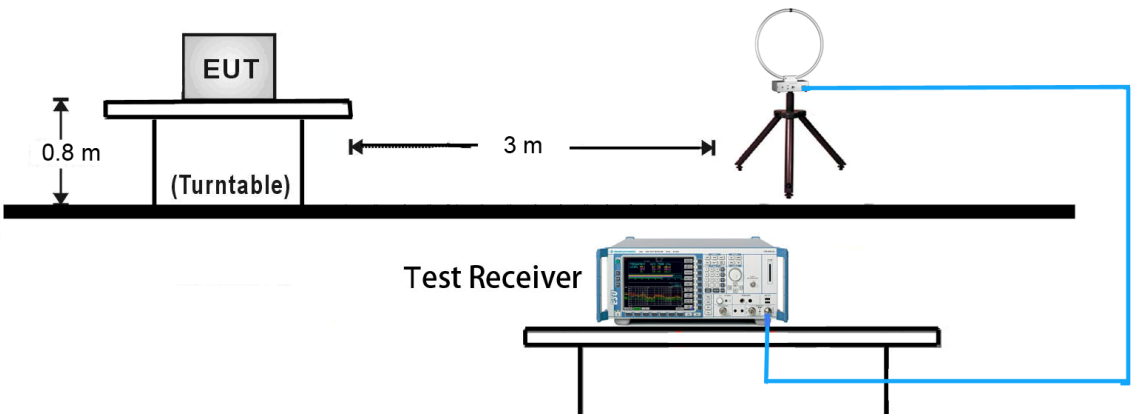
and where:

F_C is the carrier frequency in Hz.

For a graphical representation of the correction factor C see annex D.

In the frequency range 4.78 MHz to 25 MHz limits are identical to the limits in clause 4.3.4.3, table 2, without any correction factor.

8.2. Test Setup



8.3. Test Procedure

Refer to ETSI EN 300 330 V2.1.1 (2017-02) Clause 6.2.6

8.4. Test Result

The transmitter in the EUT is belongs to Product Class 1 and this requirement applies to Product Class 4 only, therefore this requirement does not apply.

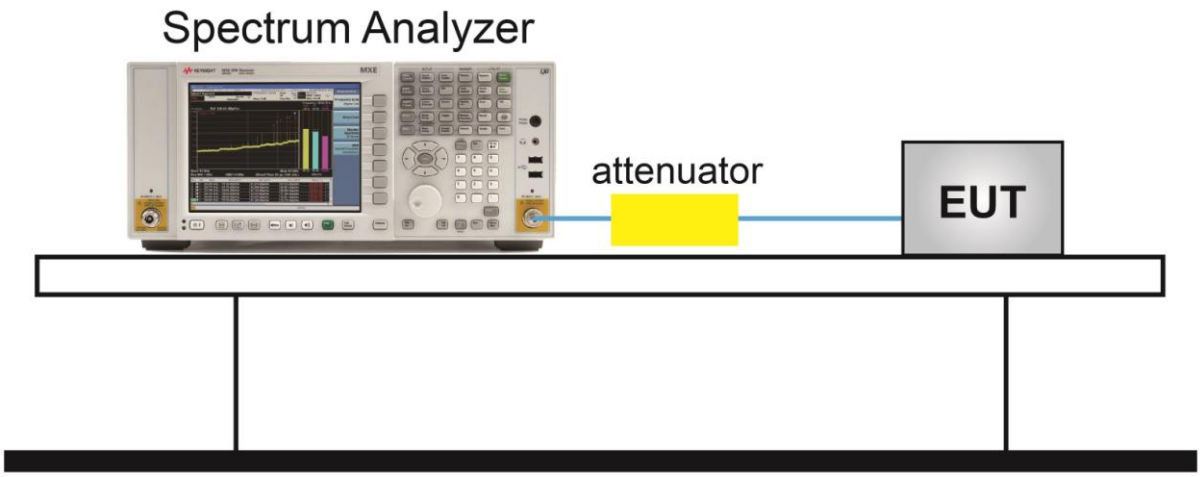
9. Transmitter Conducted Spurious Emissions

9.1. Limit

The limit for I_S will be derived from the below formula with the existing limits of H_C (see clause 4.3.4), H_S (see clause 4.3.8) and I_C (see clause 4.3.5).

$$(I_C - I_S) = (H_C - H_S)$$

9.2. Test Setup



9.3. Test Procedure

Refer to ETSI EN 300 330 V2.1.1 (2017-02) Clause 6.2.7

9.4. Test Result

The transmitter in the EUT is belongs to Product Class 1 and this requirement applies to Product Class 3 only, therefore this requirement does not apply.

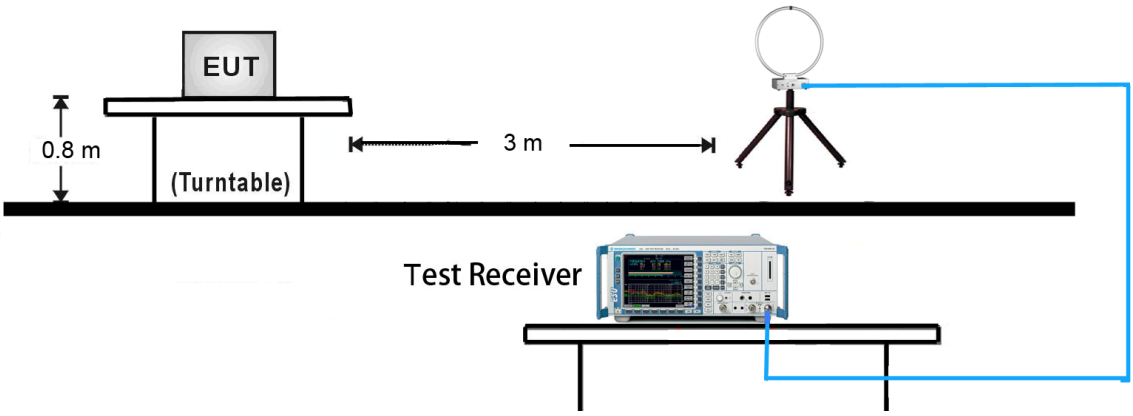
10. Transmitter Radiated Spurious Domain Emission Limits < 30 MHz

10.1. Limit

The radiated field strength of the spurious domain emissions below 30 MHz shall not exceed the generated H-field dBμA/m at 10 m.

State	Frequency 9kHz ≤ f ≤ 10MHz	Frequency 10MHz ≤ f ≤ 30MHz
Operating	27dBμA/m at 9 kHz descending 3 dB/oct	-3.5dBuA/m
Standby	5.5dBμA/m at 9 kHz descending 3 dB/oct	-25dBuA/m

10.2. Test Setup



10.3. Test Procedure

Refer to ETSI EN 300 330 V2.1.1 (2017-02) Clause 6.2.8

10.4. Test Result

Test Engineer	Bacon Dong	Temperature	25°C
Test Time	04-15-2019	Relative Humidity	54%
Test Mode	Mode1	Test Site	AC1

Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	3M Distance Measure Level (dBuV/m)	10M Distance Measure Level (dBuV/m)	10M Distance Measure Level (dBuA/m)	10M Distance Limit (dBuA/m)	Margin [dB]
Face On							
27.120	7.0	19.5	26.5	16.0	-35.5	-3.5	-32.0
Face Off							
27.120	8.8	19.5	28.3	17.8	-33.7	-3.5	-30.2

Note 1: Measure Level (dBm) = Reading Level (dBm) + Factor (dB);

Note 2: L2 = L1 + 20 log(d1/d2), L2 = 10M Measure Level, L1 = 3M Measure Level;

Note 3: For measuring equipment calibrated in dBuV, the reading should be reduced by 51.5dB to be converted to dBuA/m.

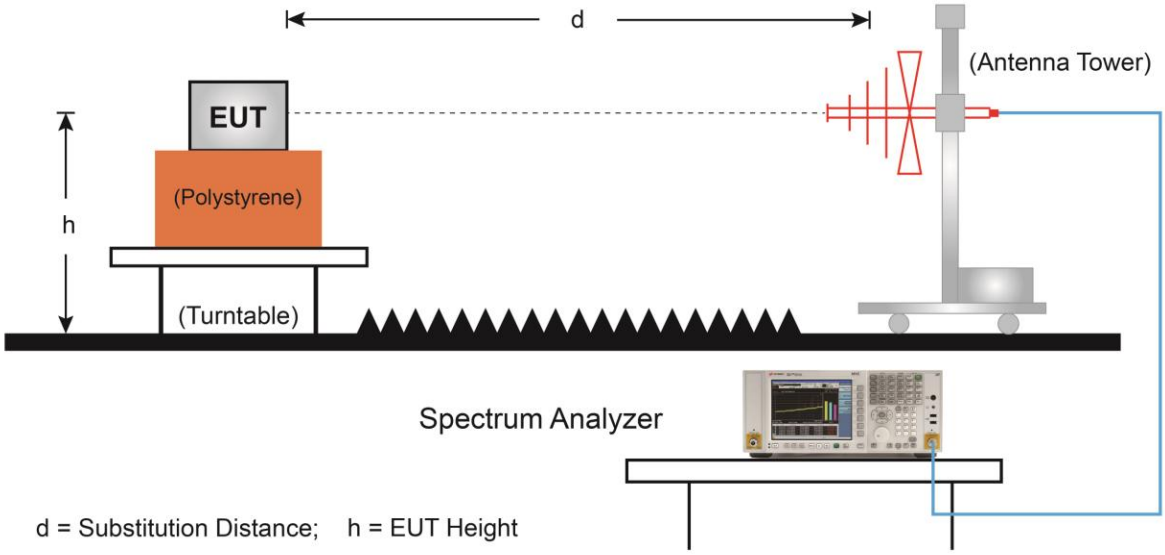
11. Transmitter Radiated Spurious Domain Emission Limits > 30 MHz

11.1. Limit

The power of any radiated emission shall not exceed the values on below.

Transmitter State	47MHz to 74MHz 87.5MHz to 118MHz 174MHz to 230MHz 470MHz to 790MHz	Other frequencies between 30MHz to 1000MHz
Operating	4nW	250nW
Standby	2nW	2nW

11.2. Test Setup



11.3. Test Procedure

Refer to ETSI EN 300 330 V2.1.1 (2017-02) Clause 6.2.9.

11.4. Test Result

Test Engineer	Snake Ni	Temperature	25°C
Test Time	04-15-2019	Relative Humidity	54%
Test Mode	Mode1	Test Site	AC1

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin [dB]	Polarization
72.2	-93.9	21.3	-72.6	-54.0	-18.6	Horizontal
709.5	-103.6	34.0	-69.6	-54.0	-15.6	Horizontal
72.2	-88.3	22.1	-66.2	-54.0	-12.2	Vertical
98.4	-96.1	25.1	-71.0	-54.0	-17.0	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB)

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

12. Transmitter Frequency Stability

12.1. Limit

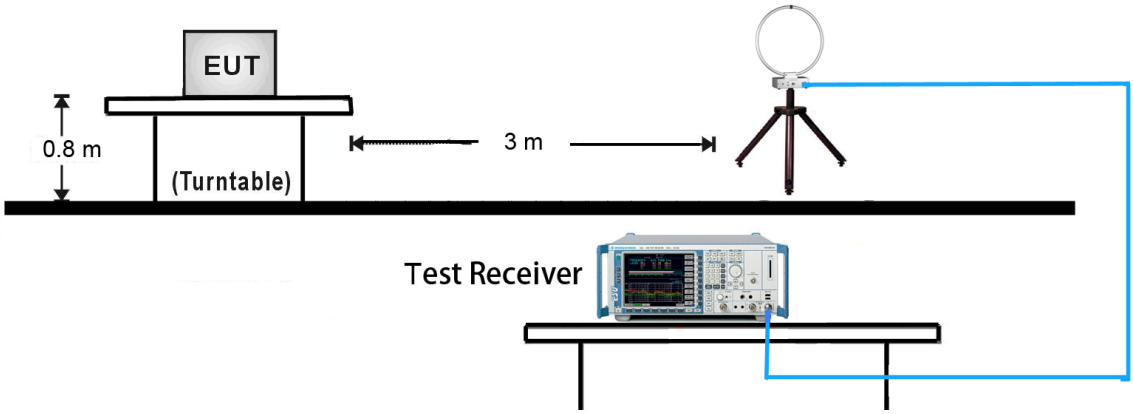
The equipment shall either:

a) remain in the Operating Channel without exceeding any applicable limits (e.g. Duty Cycle); or

b) reduce its effective radiated power below the Spurious Emission limits without exceeding any applicable limits (e.g. Duty Cycle); or

c) shut down, (e.g. no emission above EMC levels).

12.2. Test Setup



12.3. Test Procedure

Refer to ETSI EN 300 330 V2.1.1 (2017-02) Clause 6.2.10.

12.4. Test Result

The item is only applicable for channelized systems, so this EUT is not applicable.

13. Receiver Spurious Emissions

13.1. Limit

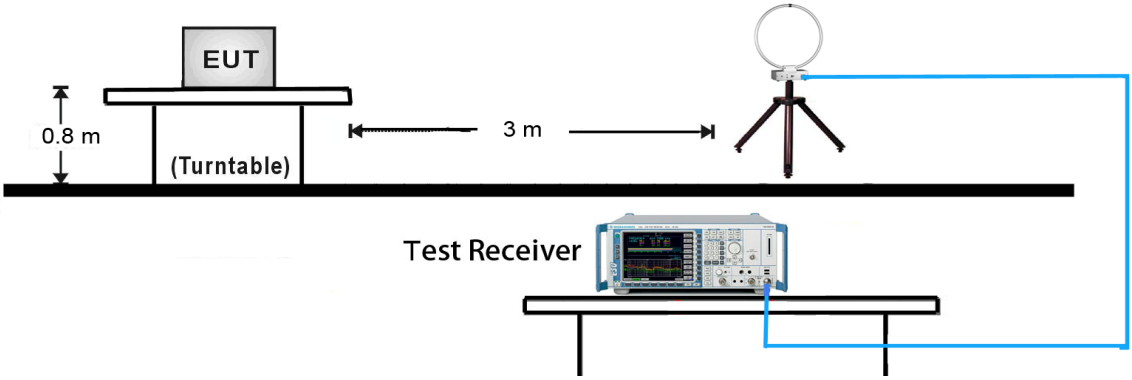
The spurious components below 30 MHz shall not exceed the generated H-field dBµA/m values at 10 m.

Frequency 9 kHz ≤ f < 10 MHz	Frequency 10 MHz ≤ f < 30 MHz
5.5dBuA/m descending 3dB/oct	-25dBuA/m

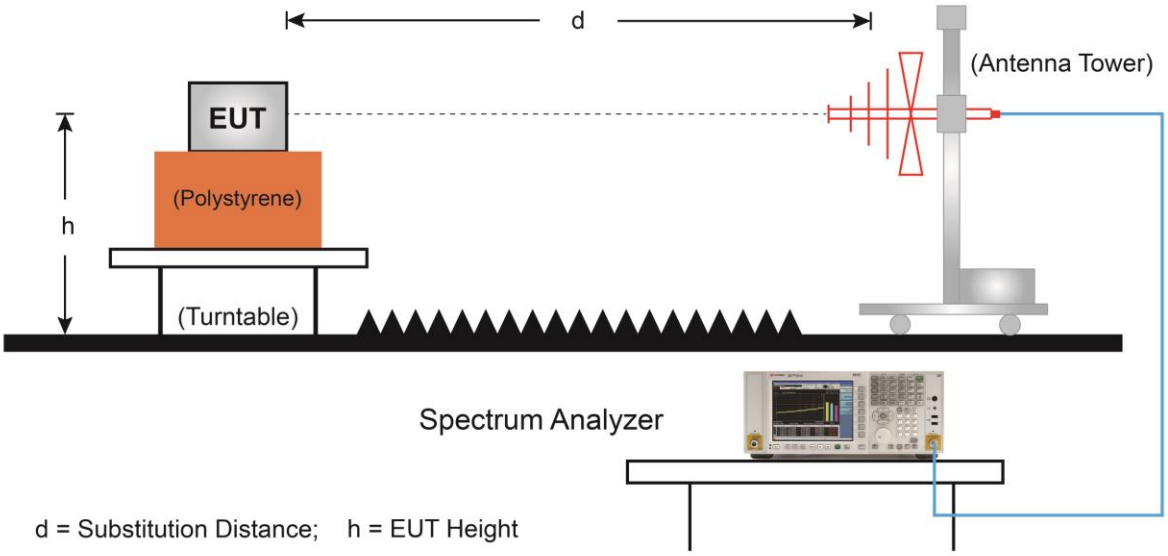
The spurious components above 30 MHz measured values shall not exceed 2nW.

13.2. Test Setup

9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:



13.3. Test Procedure

Refer to ETSI EN 300 330 V2.1.1 (2017-02) Clause 6.3.1

13.4. Test Result

The receiver in the EUT is collocated with the transmitter that is continuously transmitting; the receiver was tested along with the transmitter in operating mode; therefore this requirement does not apply.

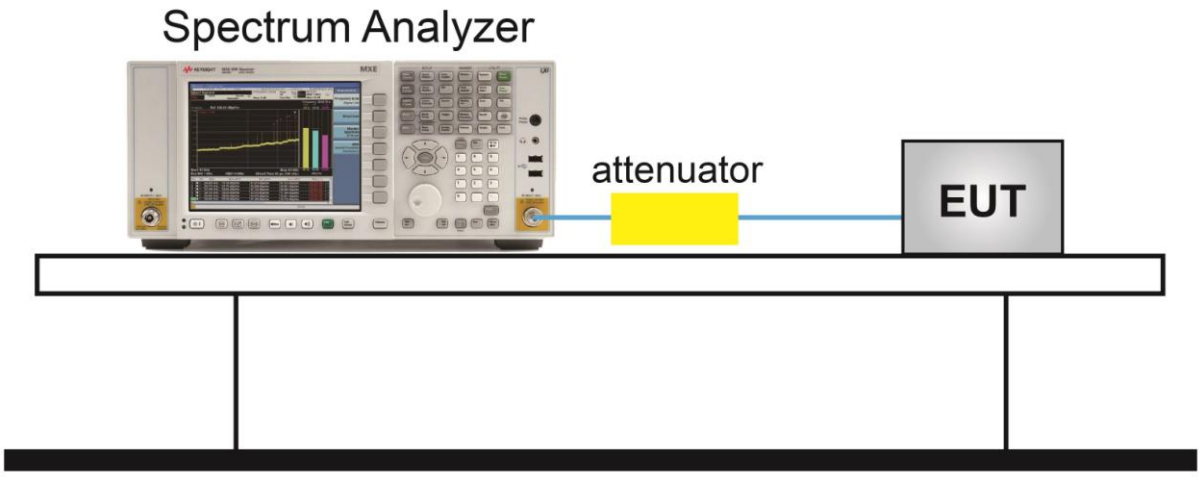
14. Adjacent Channel Selectivity

14.1. Limit

The receiver selectivity of the equipment under specified conditions shall not be less than stated as below.

Channel spacing ≤ 25KHz	Channel spacing > 25KHz
60dB	70dB

14.2. Test Setup



14.3. Test Procedure

Refer to ETSI EN 300 330 V2.1.1 (2017-02) Clause 6.3.2

14.4. Test Result

This measurement is only for channelized systems and only required where a frequency plan with standard channel spacing is consistently used, for example at 27 MHz, therefore this requirement does not apply.

15. Receiver Blocking or Desensitization

15.1. Limit

The blocking ratio, for any frequency within the specified ranges, shall not be less than the values given in table 10, except at frequencies on which spurious responses are found. The limit value is determined by a reference limit (Ref) multiplied by a correction factor depending of the appropriate receiver category.

Table 10: Receiver blocking or desensitization limits

Generator B frequency offset, $\|f_A - f_B\|$, either by a) or b) whichever is greater (see note 3)			Limit (dB)
a) per clause 7.4, indent a)		b) per clause 7.4, indent b)	
f_A < 500 kHz	f_A ≥ 500 kHz	value of N_B, see below	
±100 kHz	±500 kHz	2	Reference Limit × 1/2 (see note 2)
±200 kHz	±1 MHz	4	Reference Limit × 2/3 (see note 2)
±300 kHz	±2 MHz	8	Reference Limit × 5/6 (see note 2)
±500 kHz	±5 MHz	20	Reference Limit (see note 1)
NOTE 1: Reference limit (Ref) = 30 dB at 9 kHz increasing with 10 dB/decade to 65,2 dB at 30 MHz. NOTE 2: The limit is a fractional dB value of the reference limit. NOTE 3: Generator B frequencies below 9 kHz are not specified.			

15.2. Test Setup

N/A

15.3. Test Procedure

Refer to ETSI EN 300 330 V2.1.1 (2017-02) Clause 6.3.2

15.4. Test Result

Receiver blocking or desensitization is only applicable for channelized systems where channel definitions are used, therefore this requirement does not apply.

16. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
RF frequency	$\pm 1 \times 10^{-7}$
RF Power, Conducted	±1dB
RF Power, radiated	±6dB
Temperature	±1°C
Humidity	±5%

17. List of Measuring Instrument

Conducted Test Equipment - TR3

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2020/04/15
EXA Signal Analyzer	Keysight	N9010B	MRTSUE06452	1 year	2019/07/19
Signal Analyzer	R&S	FSV40	MRTSUE06218	1 year	2020/04/15
Power Meter	Agilent	U2021XA	MRTSUE06030	1 year	2019/11/16
USB wideband power sensor	Keysight	U2021XA	MRTSUE06446	1 year	2019/07/19
USB wideband power sensor	Keysight	U2021XA	MRTSUE06447	1 year	2019/07/05
Programmable Temperature & Humidity Chamber	BAOYT	BYH-1500L	MRTSUE06051	1 year	2019/11/16
Thermohygrometer	Testo	608-H1	MRTSUE06401	1 year	2019/08/14

Transmitter Spurious Emissions and Receiver Spurious Emissions - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cal. Due Date
PXA Signal Analyzer	Keysight	N9030B	MRTSUE06395	1 year	2019/09/25
Microwave System Amplifier	Agilent	83017A	MRTSUE06076	1 year	2019/11/16
Bilog Period Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2020/03/31
Broad Band Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06023	1 year	2019/10/19
Thermohygrometer	Testo	608-H1	MRTSUE06403	1 year	2019/08/14
Anechoic Chamber	TDK	Chamber-AC1	MRTSUE06212	1 year	2019/05/01

Transmitter Spurious Emissions and Receiver Spurious Emissions - AC2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Keysight	N9038A	MRTSUE06125	1 year	2019/08/13
Bilog Period Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2019/10/19
Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06171	1 year	2019/11/09
Broadband Coaxial Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2019/11/16
Temperature/Humidity Meter	Minggao	ETH529	MRTSUE06170	1 year	2019/12/13
Anechoic Chamber	RIKEN	Chamber-AC2	MRTSUE06213	1 year	2019/05/01

Adjacent Channel Selectivity - SR5

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2020/04/15
EXA Signal Analyzer	Keysight	N9010B	MRTSUE06452	1 year	2019/07/19
Signal Analyzer	R&S	FSV40	MRTSUE06218	1 year	2020/04/15
Vector Signal Generator	Agilent	E4438C	MRTSUE06026	1 year	2019/11/16
MXG X-Series Microwave Analog Signal Generator	Keysight	N5183B	MRTSUE06197	1 year	2020/04/15
Thermohygrometer	Testo	608-H1	MRTSUE06402	1 year	2019/08/14

Receiver Blocking - SR5

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2020/04/15
EXA Signal Analyzer	Keysight	N9010B	MRTSUE06452	1 year	2019/07/19
Signal Analyzer	R&S	FSV40	MRTSUE06218	1 year	2020/04/15
Wideband Radio Communication Tester	R&S	CMW 500	MRTSUE06243	1 year	2019/11/16
Vector Signal Generator	R&S	SMBV100A	MRTSUE06279	1 year	2020/04/15
Bluetooth Test Set	Anritsu	MT8852B-042	MRTSUE06389	1 year	2019/06/14
Thermohygrometer	Testo	608-H1	MRTSUE06402	1 year	2019/08/14

Software	**Version**	**Function**
EMI Software	V3	EMI Test Software

The End

Appendix A - Test Setup Photograph

Refer to “1903RSU039-ET” file.

Appendix B - EUT Photograph

Refer to “1903RSU039-EE” file.