

FCC CERTIFICATION TEST REPORT

FOR

Applicant	•	Tera Tron GmbH			
Address		Martin-Siebert-Str. 5		Martin-Siebert-Str. 5	
Equipment under Test		Schutzfeld-Transponder (BSS-T)			
Model No.	:	BSS0134T			
Trade Mark DG D		TeraTron STING			
FCC ID		QLXBSS0134T			
Manufacturer	:	Tera Tron GmbH			
Address	-	Martin-Siebert-Str. 5			

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

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TEST REPORT DECLARE

Applicant	•••	Tera Tron GmbH	
Address	• •	Martin-Siebert-Str. 5	
Equipment under Test	•••	Schutzfeld-Transponder (BSS-T)	
Model No.	• •	BSS0134T	
Trade mark	• •	TeraTron	
Manufacturer	• •	Tera Tron GmbH	
Address	• •	Martin-Siebert-Str. 5	

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C.

Test procedure used:

ANSI C63.10:2013.

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

Report No:	DDT-R18072605-1E2		
Date of Receipt:	Jul. 30, 2018	Date of Test:	Jul. 30, 2018~ Aug. 27, 2018

Prepared By:

Ella Gong

Ella Gong/Engineer



Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision history

Rev.	Revisions	Issue Date	Revised By
	Initial issue	Aug. 27, 2018	

1. Summary of test results

The EUT have been tested according to the applicable standards as referenced below.				
Description of Test Item	Standard	Results		
20dB Bandwidth and 99% Bandwidth	FCC Part 15: 15.215 ANSI C63.10:2013	PASS		
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.249 ANSI C63.10:2013	PASS		
Band Edge Compliance	FCC Part 15: 15.205 FCC Part 15: 15.249 ANSI C63.10:2013	PASS		
Power Line Conducted Emission	FCC Part 15: 15.207 ANSI C63.10:2013	PASS		
Antenna requirement	FCC Part 15: 15.203	PASS		

2. General test information

2.1. Description of EUT

: Schutzfeld-Transponder (BSS-T)	
BSS0134T	
: Please reference user manual of this device	
: DC 3.7V from battery	
: 916MHz	
: Integral PCB Antenna, maximum PK gain: 0dBi	
Series production	

Note: EUT is the ab. of equipment under test.

EUT channels and frequencies list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	916	/	/	/	/

2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Serial No.	Other
Schutzfeld-Steuerung / Reader (BSS-R)	TeraTron	BSS0134R	N/A	N/A

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Serial No.	Other
Schutzfeld-Steuerung / Reader (BSS-R)	TeraTron	BSS0134R	N/A	N/A

2.4. Block diagram of EUT configuration for test

For EUT ON mode:

Schutzfeld-Trans	916MHz wireless control	Schutzfeld-Steueru
ponder (BSS-T)		ng / Reader
(Tx)		(BSS-R) (Rx)

Tested mode, channel, information				
Mode	Channel	Frequency (MHz)		
Tx mode	CH1	916		

2.5. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25 ℃
Humidity range:	40-75%
Pressure range:	86-106kPa

2.6. Deviations of test standard

No Deviation.

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City,

Guangdong Province, China, 523808

Tel: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com

CNAS Accreditation No. L6451; A2LA Accreditation No. 3870.01

Designation Number: CN1182; Test Firm Registration Number: 540522

Industry Canada site registration number: 10288A-1

2.8. Measurement uncertainty

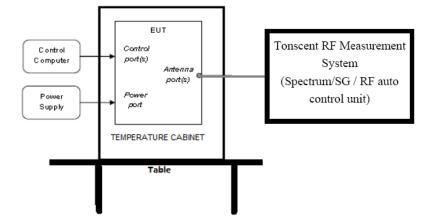
Test Item	Uncertainty
Bandwidth	1.1%
Reak Output Rower (Conducted) (Spectrum analyzer)	0.86dB (10 MHz ≤ f < 3.6GHz);
Peak Output Power (Conducted) (Spectrum analyzer)	1.38dB (3.6GHz≤ f < 8GHz)
Peak Output Power (Conducted) (Power Sensor)	0.74dB
Power Spectral Density	0.74dB (10 MHz ≤ f < 3.6GHz);
Power Spectral Density	1.38dB (3.6GHz≤ f < 8GHz)
	0.86dB (10 MHz ≤ f < 3.6GHz);
Conducted spurious emissions	1.40dB (3.6GHz≤ f < 8GHz)
	1.66dB (8GHz≤ f < 22GHz)
Uncertainty for radio frequency (RBW<20kHz)	3×10 ⁻⁸
Temperature	0.4 °C
Humidity	2%
Uncertainty for Radiation Emission test	4.70 dB (Antenna Polarize: V)
(30MHz-1GHz)	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test	4.10dB(1-6GHz)
(1GHz-18GHz)	4.40dB (6GHz-18Gz)
Uncertainty for Power line conduction emission test	3.32dB (150kHz-30MHz)
Note: This uncertainty represents an expanded uncertair	nty expressed at approximately the
95% confidence level using a coverage factor of k=2.	

3. Equipment used during test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval					
RF Connected Test (Tonscend RF Measurement System)										
Spectrum analyzer	R&S	FSU26	200071	Oct. 23, 2017	1 Year					
Wideband Radio Communication tester	R&S	CMW500	117491	Jun. 29, 2018	1 Year					
Vector Signal Generator	Agilent	E8267D	US49060192	Oct. 23, 2017	1 Year					
Vector Signal Generator	Agilent	N5182A	MY48180737	Jun. 29, 2018	1 Year					
Power Sensor	Agilent	U2021XA	MY55150010	Oct. 21, 2017	1 Year					
Power Sensor	Agilent	U2021XA	MY55150011	Oct. 23, 2017	1 Year					
DC Power Source	MATRIS	MPS-3005L- 3	D813058W	Aug. 18, 2017	1 Year					
Attenuator	Mini-Circuits	BW-S10W2	101109	Aug. 18, 2017	1 Year					
RF Cable	Micable	C10-01-01-1	100309	Oct. 21, 2017	1 Year					
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-15 0L	ZX170110-A	Oct. 21, 2017	1 Year					
Test Software	JS Tonscend	JS1120-3	Ver.2.7	N/A	N/A					
Radiated Emission T	est Chamber 1	#								
EMI Test Receiver	R&S	ESU8	100316	Oct. 21, 2017	1 Year					
Spectrum analyzer	Agilent	E4447A	MY50180031	Jun. 29, 2018	1 Year					
Trilog Broadband Antenna	Schwarzbeck	VULB9163	9163-462	Nov. 09, 2017	1 Year					
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Oct. 17, 2017	1 Year					
Double Ridged Horn Antenna	R&S	HF907	100276	Oct. 17, 2017	1 Year					
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	Nov. 09, 2017	1 Year					
Pre-amplifier	A.H.	PAM-0118	360	Oct. 21, 2017	1 Year					
Pre-amplifier	TERA-MW	TRLA-0040 G35	101303	Oct. 21, 2017	1 Year					
RF Cable	HUBSER	CP-X2+ CP-X1	W11.03+ W12.02	Oct. 21, 2017	1 Year					
RF Cable	N/A	SMAJ-SMA J-1M+ 11M	17070133+17 070131	Nov. 08, 2017	1 Year					
MI Cable	HUBSER	C10-01-01-1 M	1091629	Oct. 21, 2017	1 Year					
Test software	Audix	E3	V 6.11111b	N/A	N/A					

4. 20dB Bandwidth and 99% Bandwidth

4.1. Block diagram of test setup



4.2. Limits

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20dB 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.

4.3. Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Set the spectrum analyzer as follows:

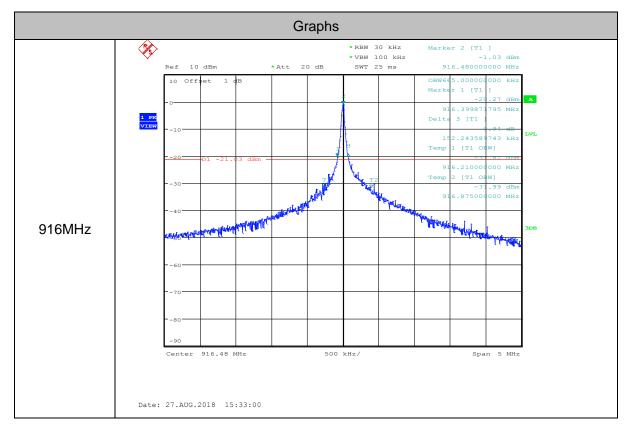
RBW:	30kHz
VBW:	100kHz
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(3) Allow the trace to stabilize, measure the 20dB and 99% bandwidth of signal.

4.4. Test Result

Mode	Freq (MHz)	20dB bandwidth Result (kHz)	99% bandwidth Result (kHz)	Limit (MHz)	Conclusion
ТΧ	916	152.244	665.000	/	PASS

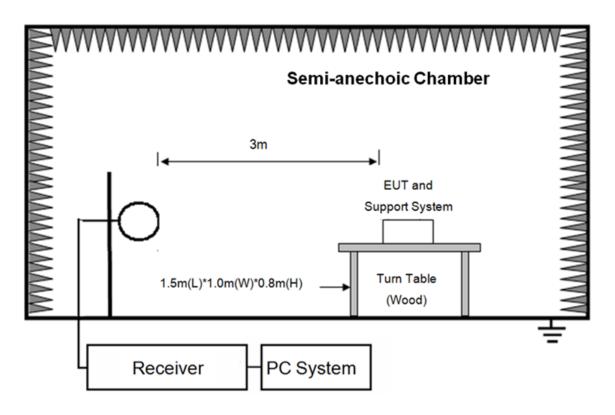
4.5. Original test data



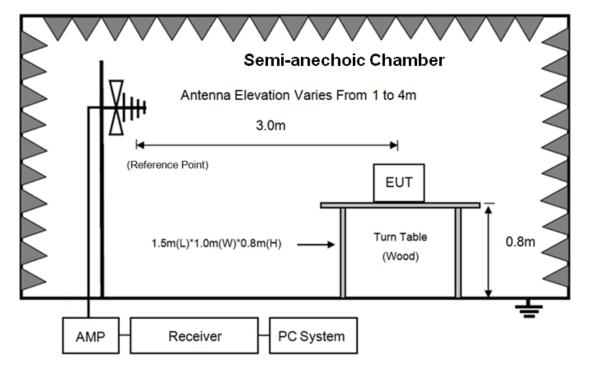
5. Radiated emission

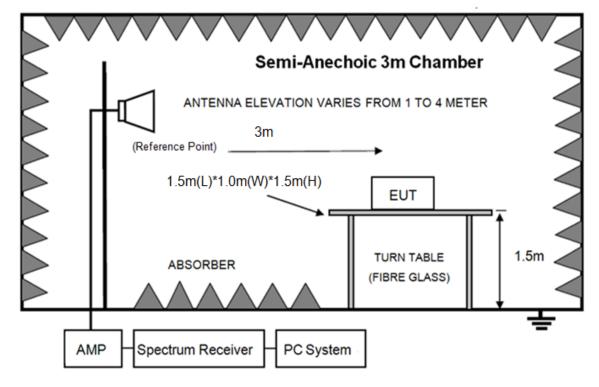
5.1. Block diagram of test setup

In 3m Anechoic Chamber Test Setup Diagram for 9kHz-30MHz



In 3m Anechoic Chamber Test Setup Diagram for 30MHz-1GHz





In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz

Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

5.2. Limit

FR	EQUE	NCY	DISTANCE	FIELD STRE	NGTHS LIMIT	
	MHz	2	Meters	μV/m	dB(μV)/m	
30	~	88	3	100	40.0	
88	~	216	3	150	43.5	
216	~	960	3	200	46.0	
960	~	1000	3	500	54.0	
Fundame		ngth of mission for MHz	3	94.0 dB(μV)/m (Average) 114.0 dB(μV)/m(Peak)		
Above 1000			3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)		
	d Strer Iarmor	ngth of nics	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)		

Remark:

(1) Emission level $dB\mu V = 20 \log Emission level \mu V/m$

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

(4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000MHz, radiated emission limits in these three bands are based on measurements employing an average detector.

5.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
- (2) Setup EUT and assistant system according clause 2.3 and 4.2

(3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.

- (a) Change work frequency or channel of device if practicable.
- (b) Change modulation type of device if practicable.
- (c) Change power supply range from 85% to 115% of the rated supply voltage

(d) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions

- (4) Spectrum frequency from 9kHz to 25GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 9kHz to 30MHz and 18GHz to 25GHz, so below final test was performed with frequency range from 30MHz to 18GHz.
- (5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10 2013 on Radiated Emission test.
- (6) For emissions from 30MHz to 1GHz, Quasi-Peak values were measured with EMI Receiver and the bandwidth of Receiver is 120 kHz.
- (7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure. Peak detector is used for both PK and AV test.
- (8) For fundamental frequency test, set spectrum analyzer's RBW=3MHz, VBW=10MHz. peak detector for PK, RMS detector for AV, Read the Level in spectrum analyzer and record.

5.4. Test result

PASS. (See below detailed test result)

All the emissions except fundamental emission from 9kHz to 25GHz were comply with 15.209 limit.

Note1: According exploratory test no any obvious emission was detected from 9kHz to 30MHz

and 18GHz to 25GHz, so the final test was performed with frequency range from 30MHz to

18GHz and recorded in below result.

Note2: For emissions above 1GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Field Strength of The Fundamental Signal

Peak value:

Freq. (MHz)	Read level	Antenna Factor	Cable Loss	Result Level	Limit (dBµV/m)	Margin (dB)	Detector type	Polarization
	(dBµV)	(dB/m)	(dB)	(dBµV/m)				
916.00	63.66	22.56	7.66	93.88	114.00	20.12	Peak	HORIZONTAL
916.00	63.25	22.56	7.66	93.47	114.00	20.53	Peak	VERTICAL

Average value:

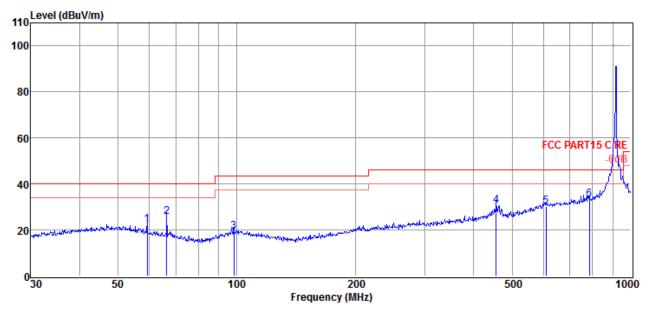
Freq. (MHz)	Read level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Result Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector type	Polarization
916.00	60.36	22.56	7.66	90.58	94.0	3.42	Peak	HORIZONTAL
916.00	60.00	22.56	7.66	90.22	94.0	3.78	Peak	VERTICAL

Note: Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

Radiated Emission test (below 1GHz) **TR-4-E-009 Radiated Emission Test Result**

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Repo BELOW1G.EM6	ort Data\Q18072605-1E BSS-T\FCC
Test Date	: 2018-08-20	Tested By	: Talent
EUT	: Schutzfeld-Transponder (BSS-T)	Model Number	: BSS0134T
Power Supply	: Battery	Test Mode	: Tx mode
Condition	Temp:24.5'C, Humi:55.5%, [·] Press:100.1kPa	Antenna/Distance	: 2017 VULB 9163 1#/3m/HORIZONTAL
Memo	: 916MHz		

Data: 3



Item	Freq.	Read	Antenna	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	(dBµV/m)	(dBµV/m)	(dB)		
1	59.23	6.53	11.57	4.09	22.19	40.00	-17.81	QP	HORIZONTAL
2	66.50	11.47	9.93	4.15	25.55	40.00	-14.45	QP	HORIZONTAL
3	98.49	3.74	11.20	4.40	19.34	43.50	-24.16	QP	HORIZONTAL
4	455.91	8.52	16.55	5.58	30.65	46.00	-15.35	QP	HORIZONTAL
5	609.92	4.13	19.43	6.71	30.27	46.00	-15.73	QP	HORIZONTAL
6	785.09	4.98	21.07	7.27	33.32	46.00	-12.68	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

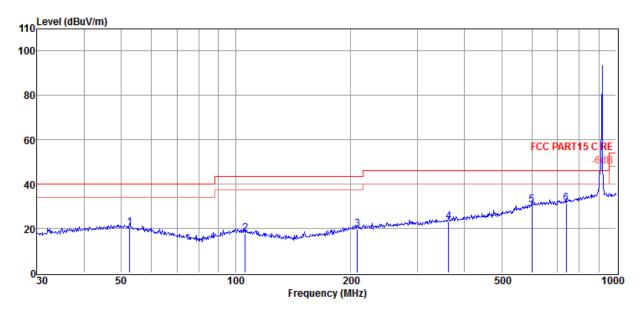
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18072605-1E BSS-T\FCC BELOW1G.EM6			
Test Date	: 2018-08-20	Tested By	: Talent		
EUT	: Schutzfeld-Transponder (BSS-T)	Model Number	: BSS0134T		
Power Supply	: Battery	Test Mode	: Tx mode		
Condition	. Temp:24.5'C, Humi:55.5%, [:] Press:100.1kPa	Antenna/Distance	: 2017 VULB 9163 1#/3m/VERTICAL		
Memo	: 916MHz				

Data: 4



ltem	Freq.	Read	Antenna	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	(dBµV/m)	(dBµV/m)	(dB)		
1	52.58	3.07	13.14	4.02	20.23	40.00	-19.77	QP	VERTICAL
2	106.01	2.63	10.76	4.46	17.85	43.50	-25.65	QP	VERTICAL
3	208.58	2.76	11.69	5.07	19.52	43.50	-23.98	QP	VERTICAL
4	362.98	2.66	14.56	5.80	23.02	46.00	-22.98	QP	VERTICAL
5	601.43	4.41	19.40	6.68	30.49	46.00	-15.51	QP	VERTICAL
6	739.66	4.06	20.36	7.13	31.55	46.00	-14.45	QP	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Freq.	Read	Antenn	PRM	Cable	Result	Limit	Margin	Detector	Polarization
(MHz)	level	а	Facto	Loss	Level	(dBµV/	(dB)	type	
	(dBµV)	Factor	r(dB)	(dB)	(dBµV/	m)			
		(dB/m)			m)				
GFSK Tx n	node 916N	1Hz							
2751.00	60.47	28.40	44.34	5.51	50.04	54.00	-3.96	Average	HORIZONTAL
2751.00	82.48	28.40	44.34	5.51	72.05	74.00	-1.95	Peak	HORIZONTAL
4587.00	54.73	34.34	44.05	7.17	52.19	74.00	-21.81	Peak	HORIZONTAL
6134.00	48.49	35.70	43.24	8.23	49.18	74.00	-24.82	Peak	HORIZONTAL
7851.00	47.53	37.14	43.76	9.10	50.01	74.00	-23.99	Peak	HORIZONTAL
9262.00	47.65	37.60	44.18	10.51	51.58	74.00	-22.42	Peak	HORIZONTAL
12101.00	46.61	38.88	44.13	11.01	52.37	74.00	-21.63	Peak	HORIZONTAL
2751.00	57.70	28.40	44.34	5.51	47.27	54.00	-6.73	Average	VERTICAL
2751.00	74.95	28.40	44.34	5.51	64.52	74.00	-9.48	Peak	VERTICAL
4536.00	48.58	34.26	44.08	7.12	45.88	74.00	-28.12	Peak	VERTICAL
5658.00	48.13	35.56	43.41	7.99	48.27	74.00	-25.73	Peak	VERTICAL
7613.00	46.85	37.05	43.68	8.88	49.10	74.00	-24.90	Peak	VERTICAL
9313.00	48.14	37.63	44.19	10.53	52.11	74.00	-21.89	Peak	VERTICAL
12169.00	45.95	38.87	44.14	11.03	51.71	74.00	-22.29	Peak	VERTICAL
Result: Pass									

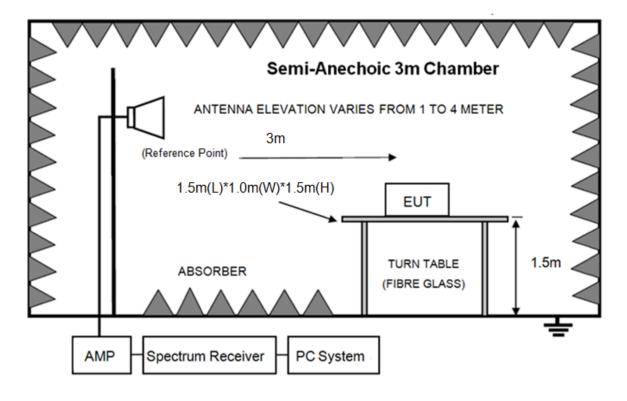
Radiated Emission test (above 1GHz)

Note 1: Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2: For emissions above 1GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

6. Band Edge Compliance

6.1. Block diagram of test setup



6.2. Limit

All the lower and upper band-edges emissions appearing within 608 MHz to 614 MHz and 960 MHz to 1240 MHz restricted frequency bands shall not exceed the limits shown in 15.209.

6.3. Test Procedure

Same with clause 8.3.

Remark: All restriction band have been tested, and only the worst case is shown in report.

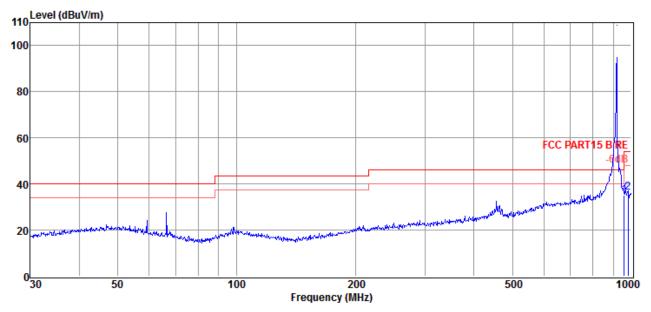
6.4. Test result

PASS. (See below detailed test result)

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Repo BELOW1G.EM6	ort Data\Q18072605-1E BSS-T\FCC
Test Date	: 2018-08-20	Tested By	: Talent
EUT	: Schutzfeld-Transponder (BSS-T)	Model Number	: BSS0134T
Power Supply	: Battery	Test Mode	: Tx mode
Condition	Temp:24.5'C, Humi:55.5%, [·] Press:100.1kPa	Antenna/Distance	: 2017 VULB 9163 1#/3m/HORIZONTAL
Memo	: 916MHz		

Data: 7



ltem	Freq.	Read Level	Antenna Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	(dBµV/m)	(dBµV/m)	(dB)		
1	958.79	4.91	22.48	7.77	35.16	46.00	-10.84	QP	HORIZONTAL
2	982.62	5.90	22.43	7.83	36.16	54.00	-17.84	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

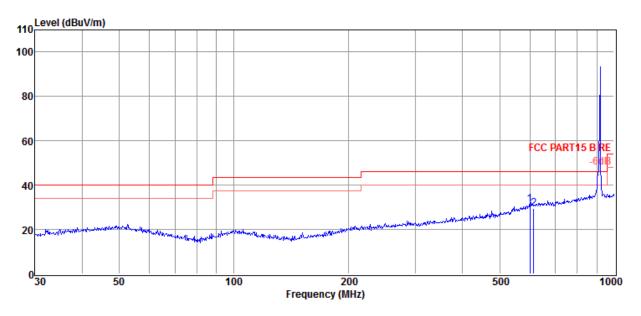
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Repo BELOW1G.EM6	ort Data\Q18072605-1E BSS-T\FCC
Test Date	: 2018-08-20	Tested By	: Talent
EUT	: Schutzfeld-Transponder (BSS-T)	Model Number	: BSS0134T
Power Supply	: Battery	Test Mode	: Tx mode
Condition	. Temp:24.5'C, Humi:55.5%, [:] Press:100.1kPa	Antenna/Distance	: 2017 VULB 9163 1#/3m/VERTICAL
Memo	: 916MHz		

Data: 8

.



Item	Freq.	Read Level	Antenna Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	(dBµV/m)	(dBµV/m)	(dB)		
1	601.43	5.41	19.40	6.68	31.49	46.00	-14.51	QP	VERTICAL
2	614.21	3.28	19.45	6.72	29.45	46.00	-16.55	QP	VERTICAL

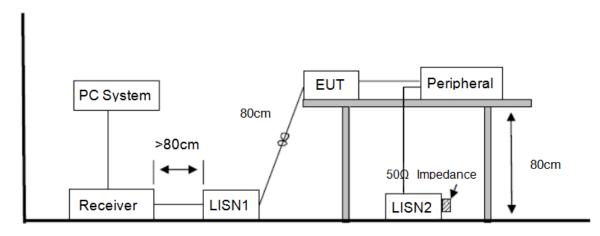
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

7. Power Line Conducted Emission

7.1. Block diagram of test setup



7.2. Power Line Conducted Emission Limits

Frequency	Quasi-Peak Level dB(µV)	Average Level dB(μV)		
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*		
500kHz ~ 5MHz	56	46		
5MHz ~ 30MHz	60	50		

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

7.3. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level. The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

7.4. Test Result

PASS. (See below detailed test result)

Not Applicable

According to 15.207(C): Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

8. Antenna Requirements

8.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2. Result

The antennas used for this product are integral PCB Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 0dBi.

END OF REPORT