

# FCC Test Report

Product Name	Tyre Pressure Monitoring Sensor	
Model No.	RDC3	
FCC ID	MRXRDC3	

Applicant	Schrader Electronics Ltd.
Address	11 Technology Park, Belfast Road, Antrim,
BT41 1QS, Northern Ireland	

Date of Receipt	Dec. 23, 2015
Issued Date	Jan. 12, 2016
Report No.	15C0367R-RFUSP14V00
Report Version	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

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# Test Report

Issued Date: Jan. 12, 2016

Report No.: 15C0367R-RFUSP14V00



Product Name	Tyre Pressure Monitoring Sensor
Applicant	Schrader Electronics Ltd.
Address	11 Technology Park, Belfast Road, Antrim, BT41 1QS, Northern Ireland
Manufacturer	Schrader Electronics Ltd.
Model No.	RDC3
FCC ID	MRXRDC3
EUT Rated Voltage	DC 3V(Power by Battery)
EUT Test Voltage	DC 3V(Power by Battery)
Trade Name	SCHRADER ELECTRONICS
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2014
	ANSI C63.4: 2014, ANSI C63.10: 2013
Test Result	Complied

Documented By	Joanne lin	
	( Senior Adm. Specialist / Joanne Lin )	
Tested By	Bill Lin	
	(Assistant Engineer / Bill Lin )	
Approved By	Hand 3	
	( Director / Vincent Lin )	



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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs



# 1. General Information

# 1.1. EUT Description

Product Name	Tyre Pressure Monitoring Sensor
Product Name	Tyle Plessure Monitoring Sensor
Trade Name	SCHRADER ELECTRONICS
Model No. RDC3	
FCC ID	MRXRDC3
Frequency Range	433.92MHz
Number of Channels	1
Type of Modulation	ASK
Antenna Information	Integral Antenna

Frequency of Each Channel:

Channel Frequency
Channel 1: 433.92MHz

- 1. The EUT is a Tyre Pressure Monitoring Sensor with a built-in 433.92 MHz transmitter.
- 2. The antenna of EUT is conform to FCC 15.203
- 3. These tests are conducted on a sample for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.231(e).
- 4. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

|--|



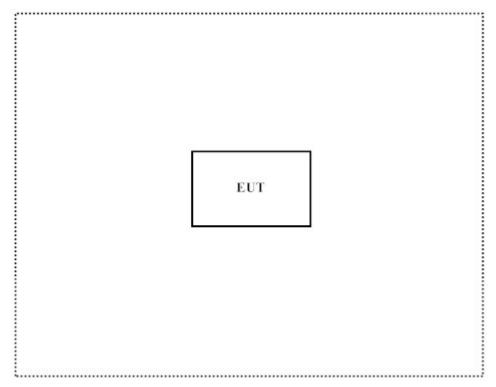
# 1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
			N/A		
Signal Cable Type Signal cable Description					intion

N/A

# 1.4. Configuration of tested System



# 1.5. EUT Exercise Software

1	Setup the EUT as shown in section 1.4.	
2	Inserts the battery.	
3	Start transmits continually.	
4	Verify that the EUT works properly.	



# 1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual	
Temperature (°C)	15-35	20-35	
Humidity (%RH)	25-75	30-65	
Barometric pressure (mbar)	860-1060	950-1000	

The related certificate for our laboratories about the test site and management system can be downloaded from

QuieTek Corporation's Web Site: <a href="http://www.quietek.com/chinese/about/certificates.aspx?bval=5">http://www.quietek.com/chinese/about/certificates.aspx?bval=5</a>

The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site: <a href="http://www.quietek.com/">http://www.quietek.com/</a>

Site Description: File on

Federal Communications Commission

FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046

Registration Number: 92195

Site Name: Quietek Corporation
Site Address: No.5-22, Ruishukeng,

Linkou Dist. New Taipei City 24451,

Taiwan, R.O.C.

TEL: 886-2-8601-3788 / FAX: 886-2-8601-3789

E-Mail : <u>service@quietek.com</u>

FCC Accreditation Number: TW1014



# 2. Conducted Emission

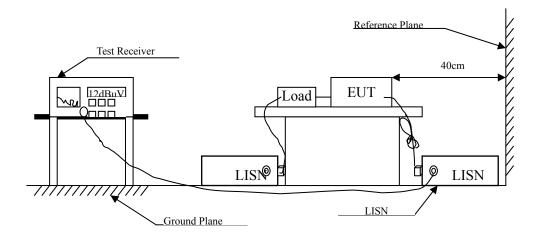
# 2.1. Test Equipment

	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
X	Test Receiver	R & S	ESCS 30 / 825442/018	Sep., 2015	
X	Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2015	Peripherals
X	LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2015	EUT
	DC LISN	Schwarzbeck	8226 / 176	Mar., 2015	EUT
X	Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2015	
	No.1 Shielded Room				

# Note:

- 1. All equipments are calibrated every one year.
- 2. The test instruments marked by "X" are used to measure the final test results.

# 2.2. Test Setup





#### 2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)					
Frequency MHz	QP	AV			
0.15 - 0.50	66-56	56-46			
0.50-5.0	56	46			
5.0 - 30	60	50			

Remarks: In the above table, the tighter limit applies at the band edges.

#### 2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

# 2.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.231(e)

#### 2.6. Uncertainty

± 2.26 dB



# 2.7. Test Result

Owing to the DC operation of EUT, this test item is not performed.

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# 3. Radiated Emission

# 3.1. Test Equipment

The following test equipments are used during the radiated emission test:

Test Site	Equipment		Manufacturer Model No./Serial No.		Last Cal.
⊠Site # 3	X	Magnetic Loop Antenna	Teseq	HLA6121/37133	Sep, 2015
	X	Bilog Antenna	Schaffner Chase	CBL6112B/ 2707	Jun, 2015
	X	EMI Test Receiver	R&S	ESCS 30/838251/ 001	Jun, 2015
	X	Coaxial Cable	QTK(Arnist)	RG 214/ LC003-RG	Jun, 2015
	X	Coaxial signal switch	Arnist	MP59B/ 6200798682	Jun, 2015

Test Site	Equipment		Manufacturer	Model No./Serial No.	Last Cal.
⊠CB # 8	X	Spectrum Analyzer	R&S	FSP40/ 100339	Oct., 2015
	X	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar., 2015
	X	Horn Antenna	Schwarzbeck	BBHA9170/209	Jan., 2016
	X	Horn Antenna	TRC	AH-0801/95051	Aug., 2015
	X	Pre-Amplifier	EMCI	EMC012630SE/980210	Jan., 2016
	X	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul., 2015
	X	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul., 2015

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

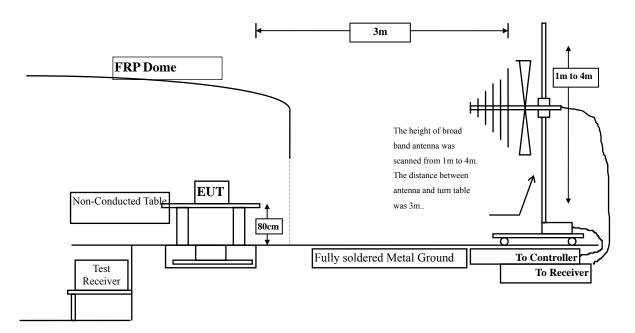
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<sup>2.</sup> The test instruments marked with "X" are used to measure the final test results.

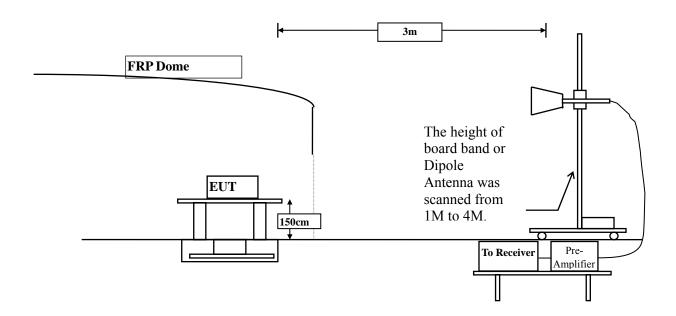


# 3.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



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#### **3.3.** Limits

#### > Fundamental and Harmonics Emission Limits

FCC Part 15 Subpart C Paragraph 15.231(e) Limits						
Fundamental Frequency	Field Strength of	Field Strength of				
MHz	Fundamental	Spurious Emission				
40.66-40.70	1000	100				
70-130	500	50				
130-174	500 to 1500	50 to 150				
174-260	1500	150				
260-470	1500 to 5000	150 to 500				
above 470	5000	500				

Remarks:

- 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
- 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

# > Spurious electric field strength limits

FCC Part 15 Subpart C Paragraph 15.209 Limits						
Frequency MHz	uV/m	dBuV/m	Measurement distance (meter)			
0.009-0.490	2400/F(kHz)	See Remark <sup>1</sup>	300			
0.490-1.705	24000/F(kHz)	See Remark <sup>1</sup>	30			
1.705-30	30	29.5	30			
30-88	100	40	3			
88-216	150	43.5	3			
216-960	200	46	3			
Above 960	500	54	3			

- Remarks: 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
  - 2. In the Above Table, the tighter limit applies at the band edges.
  - 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.



#### 3.4. Test Procedure

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10, 2013 on radiated measurement.

On the field strength of fundamental and harmonics, the limits shown are based on measuring equipment employing a average detector function. As an alternative, compliance with the limits may be based on the use of measurement instrumentation with a CISPR quasi-peak detector.

On the field strength of spurious electric, on any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function.

When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

The bandwidth The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

# 3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.231(e).

### 3.6. Uncertainty

- ± 3.8 dB below 1GHz
- ± 3.9 dB above 1GHz



#### 3.7. Test Result

Product	Tyre Pressure Monitoring Sensor				
Test Item	Fundamental Radiated Emission				
Test Mode	Mode 1: Transmit				
Date of Test	2016/01/04	Test Site	No.3 OATS		

# **Fundamental Power (X-Line)**

#### **Peak Detector:**

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dΒμV	$dB\mu V/m$	dB	$dB\mu V/m$
Horizontal					
433.920	0.853	73.561	74.415	-18.445	92.860
Vertical					
433.920	-7.243	84.828	77.585	-15.275	92.860
Average Detector:	:				
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	$dB\mu V$	$dB\mu V/m$	dB	$dB\mu V/m$
Horizontal					
433.920	0.853	65.661	66.515	-6.345	72.860
	2.222		22.22	2.2	. —
Vertical					
433.920	-7.243	72.585	65.342	-7.518	72.860

- 1. Correct factor = Antenna Factor + Cable Loss Pre-amplifier Gain
- 2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
- 3. Limit =  $20\log(4398uv) = 72.86dBuV$ .



Product	Tyre Pressure Monitoring Sensor		
Test Item	Fundamental Radiated Emission		
Test Mode	Mode 1: Transmit		
Date of Test	2016/01/04	Test Site	No.3 OATS

# **Fundamental Power (Y-Line)**

# **Peak Detector:**

I can bettetor.					
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	$dB\mu V$	$dB\mu V/m$	dB	$dB\mu V/m$
Horizontal					
433.920	0.853	77.261	78.115	-14.745	92.860
Vertical					
433.920	-7.243	79.328	72.085	-20.775	92.860
Average Detector:	:				
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	$dB\mu V$	$dB\mu V/m$	dB	$dB\mu V/m$
Horizontal					
433.920	0.853	64.351	65.205	-7.655	72.860
Vertical					
433.920	-7.243	72.498	65.255	-7.605	72.860

- 1. Correct factor = Antenna Factor + Cable Loss Pre-amplifier Gain
- 2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
- 3. Limit =  $20\log (4398uv) = 72.86dBuV$ .



Product	Tyre Pressure Monitoring Sensor			
Test Item	Fundamental Radiated Emission			
Test Mode	Mode 1: Transmit			
Date of Test	2016/01/04	Test Site	No.3 OATS	

# **Fundamental Power (Z-Line)**

# **Peak Detector:**

I can Detector.					
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dΒμV	$dB\mu V/m$	dB	$dB\mu V/m$
					_
Horizontal					
433.920	0.853	71.761	72.615	-20.245	92.860
Vertical					
433.920	-7.243	84.828	77.585	-15.275	92.860
<b>Average Detector:</b>	:				
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dΒμV	$dB\mu V/m$	dB	$dB\mu V/m$
Horizontal					
433.920	0.853	65.761	66.615	-6.245	72.860
Vertical					
433.920	-7.243	71.828	64.585	-8.275	72.860

- 1. Correct factor = Antenna Factor + Cable Loss Pre-amplifier Gain
- 2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
- 3. Limit =  $20\log(4398uv) = 72.86dBuV$ .



Product	Tyre Pressure	Tyre Pressure Monitoring Sensor						
Test Item	Harmonic Radiated Emission							
Test Mode	Mode 1: Trans	Mode 1: Transmit						
Date of Test	2016/01/05		Test S	Site	No.3 OATS			
Frequency	Correct	Reading	Measurement	Margin	Peak	Average		
	Factor	Level	Level		Limit	Limit		
MHz	dB	$dB\mu V$	$dB\mu V/m$	dB	$dB\mu V/m$	$dB\mu V/m$		
Harmonic Radia	ated Emission							
Horizontal								
Peak								
1301.760	-4.795	39.110	34.315	-39.685	74.000	54.000		
1735.680	-3.977	40.650	36.673	-37.327	74.000	54.000		
2169.600	-2.387	39.410	37.022	-36.978	74.000	54.000		
2603.520	-1.040	43.320	42.281	-31.719	74.000	54.000		
3037.440	-1.438	42.310	40.872	-33.128	74.000	54.000		
3471.360	-0.947	42.510	41.564	-32.436	74.000	54.000		
3905.280	0.463	42.840	43.303	-30.697	74.000	54.000		
4339.200	1.637	41.530	43.168	-30.832	74.000	54.000		
4773.120	2.972	41.990	44.963	-29.037	74.000	54.000		
5207.040	3.223	42.240	45.463	-28.537	74.000	54.000		

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product	Tyre Pressure Monitoring Sensor					
Test Item	Harmonic Radiated Emission					
Test Mode	Mode 1: Transmit					
Date of Test	2016/01/05		Test S	Site	No.3 OATS	
Frequency	Correct	Reading	Measurement	Margin	Peak	Average
	Factor	Level	Level		Limit	Limit
MHz	dB	$dB\mu V$	$dB\mu V/m$	dB	$dB\mu V/m \\$	$dB\mu V/m \\$
Harmonic Radiat	Harmonic Radiated Emission					
Vertical						
Peak						
1301.760	-4.143	42.470	38.327	-35.673	74.000	54.000
1735.680	-2.068	48.960	46.892	-27.108	74.000	54.000
2169.600	-2.089	43.970	41.880	-32.120	74.000	54.000
2603.520	-1.300	46.830	45.531	-28.469	74.000	54.000
3037.440	-1.352	46.350	44.998	-29.002	74.000	54.000
3471.360	-0.299	44.140	43.842	-30.158	74.000	54.000
3905.280	1.579	42.910	44.489	-29.511	74.000	54.000
4339.200	3.429	41.510	44.940	-29.060	74.000	54.000
4773.120	6.471	42.700	49.172	-24.828	74.000	54.000

#### Note:

5207.040

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.

47.556

-26.444

74.000

54.000

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.

42.130

4. Measurement Level = Reading Level + Correct Factor.

5.426

- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product	Tyre Pressure Monitoring Sensor	Tyre Pressure Monitoring Sensor		
Test Item	General Radiated Emission			
Test Mode	Mode 1: Transmit			
Date of Test	2016/01/05	Test Site	No.3 OATS	

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	$dB\mu V$	$dB\mu V/m$	dB	$dB\mu V/m$
Horizontal					
Quasi-Peak					
30.000	2.120	24.522	26.642	-13.358	40.000
66.551	-12.338	36.698	24.361	-15.639	40.000
457.362	0.192	29.599	29.791	-16.209	46.000
544.522	3.597	25.186	28.783	-17.217	46.000
599.348	3.984	23.641	27.625	-18.375	46.000
744.145	3.324	27.385	30.709	-15.291	46.000
Vertical					
Quasi-Peak					
30.000	1.020	26.242	27.262	-12.738	40.000
98.884	-0.706	26.117	25.411	-18.089	43.500
343.493	-3.321	25.592	22.271	-23.729	46.000
538.899	0.097	23.544	23.641	-22.359	46.000
692.130	2.343	23.694	26.037	-19.963	46.000
966.261	8.016	23.518	31.534	-22.466	54.000

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.



#### 4. Transmit time

# 4.1. Test Equipment

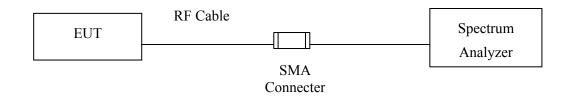
The following test equipment are used during the test:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.	
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2015	
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2015	
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015	

Note: 1. All equipments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.

# 4.2. Test Setup



#### 4.3. Limits

In addition, devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

# 4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.231(e).

# 4.5. Uncertainty

± 25ms

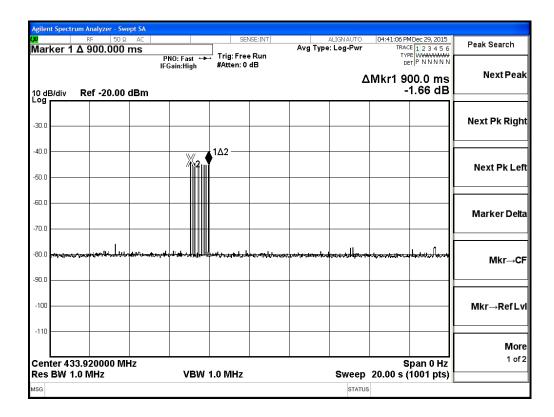


#### 4.6. Test Result

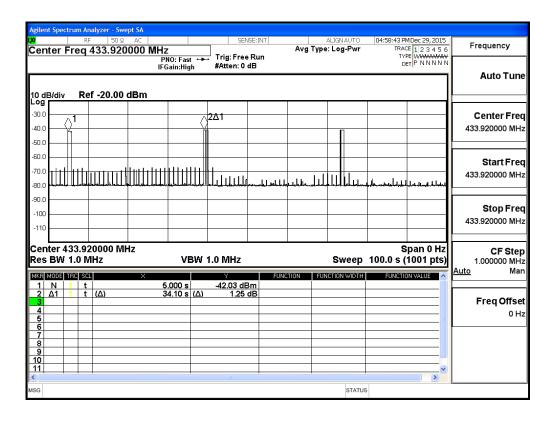
Product	Tyre Pressure Monitoring Sense	Tyre Pressure Monitoring Sensor		
Test Item	Transmit time			
Test Mode	Mode 1: Transmit			
Date of Test	2015/12/29	Test Site	No.3 OATS	

Channel No.	Frequency (MHz)	Measurement Value (Sec)	Limit (Sec)	Result
1 (Transmit time)	433.92	0.900	< 1	Pass
1 (Silent period time)	433.92	34.10	> 10	Pass
1 (Silent period time)	433.92	34.10	$> 27_{\text{note}}$	Pass

Note: Silent period time= Transmissions \* 30 times =0.900s \* 30 =27s









# 5. Occupied Bandwidth

# 5.1. Test Equipment

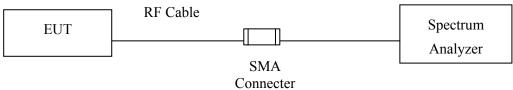
The following test equipment are used during the test:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note: 1. All equipments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.

# 5.2. Test Setup



# 5.3. Limits

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz. For devices operating above 900MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier

# 5.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.231(e)

# 5.5. Uncertainty

± 150Hz



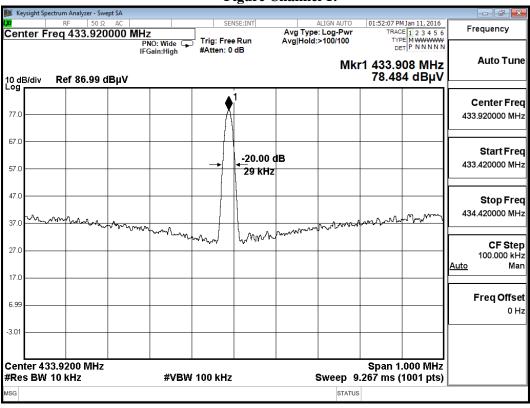
#### 5.6. Test Result

Product	Tyre Pressure Monitoring Sensor		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2016/01/11	Test Site	No.3 OATS

Channel No.	Frequency (MHz)	Measurement Value (MHz)	Limit (MHz)	Result
1	433.92	0.029	1.0848	Pass

Note: Limit = 433.92MHz \* 0.25% = 1.0848MHz







Attachment 1 : EUT Test Photographs



Attachment 2 : EUT Detailed Photographs