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Report No.: SHEM170300113501 Page: 1 of 18

Cover Page

RF REPORT

Application No.:	SHEM1703001135CR				
Applicant:	DIAS Automotive Electronic Systems Co., Ltd				
FCC ID:	2ALJETPS3-1				
Equipment Under Test (INOTE: The following same	EUT): ple(s) submitted was/were identified on behalf of the client as				
Product Name:	Tire pressure sensor				
Model No.:	TPS3.1				
Standards:	FCC PART 15 Subpart C: 2016				
Date of Receipt:	2017-03-10				
Date of Test:	2017-03-22				
Date of Issue:	2017-03-22				
Test Result:	PASS *				

In the configuration tested, the EUT detailed in this report complied with the standards specified above.



Parlam Zhan E&E Section Manager SGS-CSTC (Shanghai) Co., Ltd.

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Report No.: SHEM170300113501

Page: 2 of 18

2 Test Summary

Test Item	FCC Requirement	Test method	Result
Antenna Requirement	Part 15.203	/	PASS
Conducted Emission	Part 15.207	ANSI C63.10 (2013) Section 6.2	N/A*
Field Strength of the Fundamental	Part 15.231(e)	ANSI C63.10 (2013) Section 6.4	PASS
Radiated Spurious emissions	Part 15.209 15.231(e)	ANSI C63.10 (2013) Section 6.4&6.5&6.6	PASS
20dB Bandwidth	Part 15.231(c)	ANSI C63.10 (2013) Section 6.9.2	PASS
Dwell Time	Part 15.231(e)	ANSI C63.10 (2013) Section 7.8.4	PASS

Note:* This EUT is powered by battery only; therefore the AC Conducted Emission test is not applicable.



Report No.: SHEM170300113501

Page: 3 of 18

3 Contents

			Page
1	C	COVER PAGE	1
2	T	EST SUMMARY	2
3	C	CONTENTS	3
4		GENERAL INFORMATION	
	4.1	CLIENT INFORMATION	4
	4.2	GENERAL DESCRIPTION OF E.U.T.	4
	4.3	TECHNICAL SPECIFICATIONS:	
	4.4	DESCRIPTION OF SUPPORT UNITS	4
	4.5	DETAILS OF TEST MODE	
	4.6	TEST LOCATION	4
	4.7	TEST FACILITY	5
	4.8	MEASUREMENT UNCERTAINTY	5
5	E	QUIPMENTS USED DURING TEST	6
6	T	EST RESULTS AND MEASUREMENT DATA	7
	6.1	Antenna Requirement	7
	6.2	CONDUCTED EMISSIONS	8
	6.3	Spurious Emissions	9
	6.	.3.1 Field Strength of the Fundamental Signal	
	6.	.3.2 Spurious Emissions	
	6.4	20dB Bandwidth	
	6.5	DWELL TIME	
7	T	EST SETUP PHOTOGRAPHS	18
8	E	CUT CONSTRUCTIONAL DETAILS	18



Report No.: SHEM170300113501

Page: 4 of 18

4 General Information

4.1 Client Information

Applicant:	DIAS Automotive Electronic Systems Co., Ltd		
Address of Applicant:	Building 5. Lane 33. Jin Ji Road, Pudong, Shanghai, China		
Manufacturer:	DIAS Automotive Electronic Systems Co., Ltd		
Address of Manufacturer:	Building 5. Lane 33. Jin Ji Road, Pudong, Shanghai, China		
Factory:	DIAS Automotive Electronic Systems Co., Ltd		
Address of Factory:	Building 5. Lane 33. Jin Ji Road, Pudong, Shanghai, China		

4.2 General Description of E.U.T.

Product Description:	Mobile product with 433.92MHz remote control function		
Battery:	DC 3V, one CR2032HR Lithium Cell battery		

4.3 Technical Specifications:

Operation Frequency:	433.92MHz
Modulation Technique:	FSK
Number of Channel:	1
Antenna Type	Integral antenna
Antenna Gain:	3dBi

4.4 Description of Support Units

The EUT has been tested independently

4.5 Details of Test Mode

Test Mode	Detail description of the test mode		
Engineering Mode	Keeps EUT working in continuous transmitting mode		

4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678 No tests were sub-contracted.



Report No.: SHEM170300113501

Page: 5 of 18

4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• FCC - Registration No.: 402683

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683.

Industry Canada (IC) – IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868, C-4336, T-2221, G-830 respectively.

4.8 Measurement Uncertainty

No.	Parameter	Measurement Uncertainty		
1	Radio Frequency	< ±1 x 10 ⁻⁵		
2	Total RF power, conducted	< ±1.5 dB		
3	RF power density, conducted	< ±3 dB		
4	Spurious emissions, conducted	< ±3 dB		
5	All emissions, radiated	< ±6 dB (Below 1GHz) < ±6 dB (Above 1GHz)		
6	Temperature	< ±1°C		
7	Humidity	< ±5 %		
8	DC and low frequency voltages	< ±3 %		



Report No.: SHEM170300113501

Page: 6 of 18

5 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	Power meter	Rohde & Schwarz	NRP	101641	2017-01-14	2018-01-13
2	Power Sensor	Rohde & Schwarz	NRP-Z22	101096	2017-08-06	2018-08-05
3	Spectrum Analyzer	Rohde & Schwarz	FSP-30	2705121009	2017-01-14	2018-01-13
4	EMI test receiver	Rohde & Schwarz	ESU40	100109	2017-02-13	2018-01-15
5	Active Loop Antenna (9kHz to 30MHz)	Rohde & Schwarz	FMZB1519	1519-034	2017-02-13	2018-01-15
6	Broadband UHF-VHF ANTENNA (25MHz to 2GHz)	SCHWARZBECK	VULB9168	9168-313	2017-02-13	2018-01-15
7	Ultra broadband antenna (25MHz to3GHz)	Rohde & Schwarz	HL562	100227	2016-08-30	2017-08-29
8	Horn Antenna (1GHz to 18GHz)	Rohde & Schwarz	HF906	100284	2017-02-13	2018-01-15
9	Horn Antenna (1GHz to 18GHz)	SCHWARZBECK	BBHA9120D	9120D-679	2017-02-13	2018-01-15
10	Horn Antenna(14GHz to 40GHz)	SCHWARZBECK	BBHA 9170	BBHA917-0373	2017-02-13	2018-01-15
11	Pre-amplifier (9KHz – 2GHz)	LNA6900	TESEQ	71033	/	/
12	Pre-amplifier (1GHz – 26.5GHz)	SCHWARZBECK	SCU-F0118- G40-BZ4- CSS(F)	10001	2017-01-14	2018-01-13
13	Pre-amplifie (14GHz – 40GHz)	SCHWARZBECK	SCU-F1840- G35-BZ3- CSS(F)	10001	2017-01-14	2018-01-13
14	Tunable Notch Filter	Wainwright instruments Gmbh	WRCT800.0/880	170397 169777 169780 192507	/	/
15	High pass Filter	FSCW	HP 12/2800- 5AA2	19A45-02	/	/
16	High-low temperature cabinet	Suzhou Zhihe	TL-40	50110050	2016-09-11	2017-09-10
17	AC power stabilizer	WOCEN	6100	51122	2017-01-14	2018-01-13
18	DC power	QJE	QJ30003SII	3573/4/3	2017-01-14	2018-01-13
19	Signal Generator (Interferer)	Rohde & Schwarz	SMR40	100555	2016-08-13	2017-08-12
20	Signal Generator (Blocker)	Rohde & Schwarz	SMJ100A	101394	2017-01-14	2018-01-13
21	Splitter	Anritsu	MA1612A	M12265	/	/
22	Coupler	e-meca	803-S-1	900-M01	/	/



Report No.: SHEM170300113501

Page: 7 of 18

6 Test results and Measurement Data

6.1 Antenna Requirement

15.203 Requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

The Integral antenna is integrated and no consideration of replacement.





Report No.: SHEM170300113501

Page: 8 of 18

6.2 Conducted Emissions

Frequency Range:

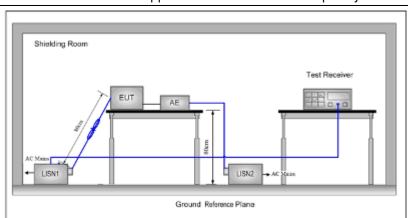
150 KHz to 30 MHz

Limit:

Frequency range	Class B Limits: dB (µV)			
MHz	Quasi-peak	Average		
0.15 to 0.50	66 to 56	56 to 46		
0.50 to 5	56	46		
5 to 30	60	50		

Note1: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

Note2: The lower limit is applicable at the transition frequency.



Test Setup:

Test Procedure:

- a The mains terminal disturbance voltage was measured with the EUT in a shielded room.
- b The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides $50\Omega/50\mu H + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN, which was bonded to the ground reference plane in the same way as the LISN for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded
- c The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- d The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance was between the closest points of the LISN and the EUT. The mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m. All other units of the EUT and associated equipment were at least 0.8 m from the LISN.

Test Results: N/A

Measurement Data:

This EUT is powered by battery only; therefore the AC Conducted Emission test is not applicable.

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Detector

Report No.: SHEM170300113501

VBW

Remark

Page: 9 of 18

RBW

6.3 Spurious Emissions

Test frequency range: 9KHz - 5GHz

Test Site: Measurement Distance: 3m

Frequency

Receiver Setup:

1KHz 0.009MHz-0.015MHz Quasi-peak 200Hz Quasi-peak 0.015MHz-30MHz 9kHz 30KHz Quasi-peak Quasi-peak 30MHz-1GHz Quasi-peak 120 kHz 300KHz Quasi-peak Peak 1MHz 3MHz Peak Above 1GHz 10Hz Peak 1MHz Average Measuremen Field strength Limit Frequency Remark t (microvolt/meter) (dBuV/m) distance (m) 0.009MHz-0.490MHz 2400/F(kHz) Quasi-peak 300 0.490MHz-1.705MHz 24000/F(kHz) Quasi-peak 30 1.705MHz-30MHz 30 30 Quasi-peak 30MHz-88MHz 40.0 3 100 Quasi-peak 88MHz-216MHz 150 43.5 3 Quasi-peak 216MHz-960MHz 200 46.0 Quasi-peak 3 960MHz-1GHz 500 54.0 Quasi-peak 3 54.0 Average 3 Above 1GHz 500 74.0 Peak 3 Limit (dBuV/m @3m) Frequency Remark QP Value 72.87 433.92MHz 92.87 Peak Value

(Spurious Emissions)

Limit:

Limit: (Field strength of the fundamental signal)

Test Procedure:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. The radiation measurements are performed in X, Y, Z axis positioning. And found the Z axis positioning which it is worse case, only the test worst case mode is recorded in the report.

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Report No.: SHEM170300113501

Page: 10 of 18

Test Setup:

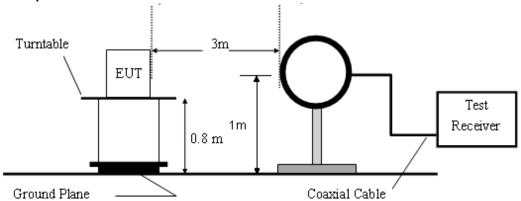


Figure 1. 30MHz to 1GHz radiated emissions test configuration

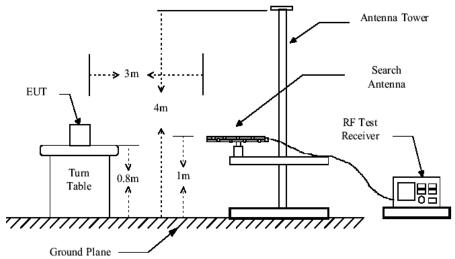


Figure 2. 30MHz to 1GHz radiated emissions test configuration

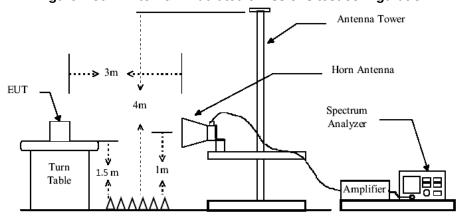


Figure 3. Above 1GHz radiated emissions test configuration

Test Results: Pass



Report No.: SHEM170300113501

Page: 11 of 18

6.3.1 Field Strength of the Fundamental Signal

Test channel	Freq. (MHz)	Result Level (dBμV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
Channel 1	l 1 433.92	69.45	72.87	-3.42	Peak	VERTICAL
		70.30	72.87	-2.57	Peak	HORIZONTAL

Remark: If the Peak value below the AV Limit, the AV test doesn't perform for this submission.



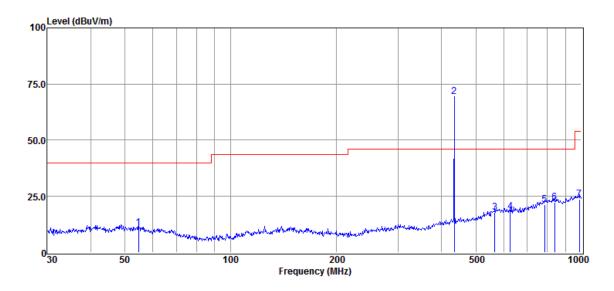
Report No.: SHEM170300113501

Page: 12 of 18

6.3.2 Spurious Emissions

Below 1GHz

Vertical:



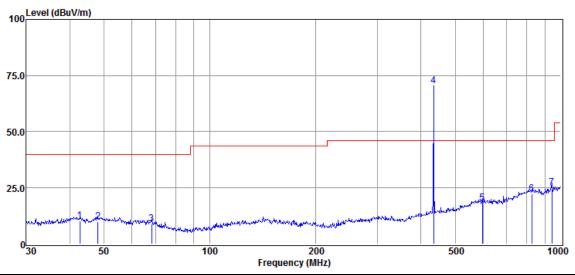
Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
1	54.64	26.18	13.25	28.80	0.28	10.91	40.00	-29.09	QP
2	433.92	81.17	16.16	28.94	1.06	69.45	Fundamental signal		gnal
3	566.62	25.75	20.00	29.23	1.31	17.83	46.00	-28.17	QP
4	627.27	25.98	20.17	29.26	1.45	18.34	46.00	-27.66	QP
5	785.09	25.22	23.27	29.14	2.01	21.36	46.00	-24.64	QP
6	839.18	25.62	23.68	29.04	2.21	22.47	46.00	-23.53	QP
7	986.07	25.39	24.27	28.78	2.76	23.64	54.00	-30.36	QP



Report No.: SHEM170300113501

Page: 13 of 18

Horizontal:



Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
1	42.60	25.03	13.72	28.80	0.23	10.18	40.00	-29.82	QP
2	47.99	24.73	13.90	28.80	0.25	10.08	40.00	-29.92	QP
3	68.39	25.52	11.95	28.80	0.33	9.00	40.00	-31.00	QP
4	433.92	82.02	16.16	28.94	1.06	70.30	Fundamental signal		
5	597.22	25.93	20.26	29.25	1.36	18.30	46.00	-27.70	QP
6	827.49	25.37	23.77	29.06	2.15	22.23	46.00	-23.77	QP
7	942.13	27.93	23.40	28.87	2.63	25.09	46.00	-20.91	QP



Report No.: SHEM170300113501

Page: 14 of 18

Above 1GHz

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	polarization
1	1301.84	48.11	-7.58	40.53	54	-13.47	peak	Vertical:
2	1733.15	46.32	-5.7	40.62	54	-13.38	peak	Vertical:
3	2164.76	45.87	-4.04	41.83	54	-12.17	peak	Vertical:
4	1301.48	49.24	-7.56	41.68	54	-12.32	peak	Horizontal
5	1733.46	46.24	-5.98	40.26	54	-13.74	peak	Horizontal
6	2164.14	47.56	-4.12	43.44	54	-10.56	peak	Horizontal

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level =Receiver Reading Level +Antenna Factor + Cable Factor Preamplifier Factor
- 2) If Peak Result comply with AV limit, AV Result is deemed to comply with QP limit
- 3) No any other emissions level which are attenuated less than 20dB below the limit. According to 15.31(o), the amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part. Hence there no other emissions have been reported.

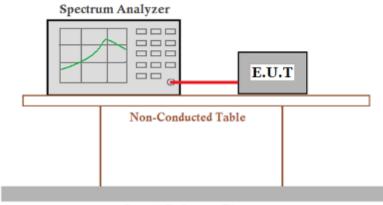


Report No.: SHEM170300113501

Page: 15 of 18

6.4 20dB Bandwidth

Test Setup:



Ground Reference Plane

Limit: The bandwidth of the emission shall be no wider than 0.25% of the center frequency

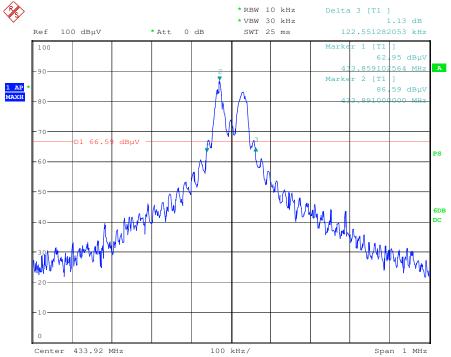
for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

Test Results: Pass

Measurement Data:

Frequency(MHz)	20dB bandwidth (kHz)	Limit (kHz)	Results
433.92	122.55	1084.8	Pass

Test plot as follows:



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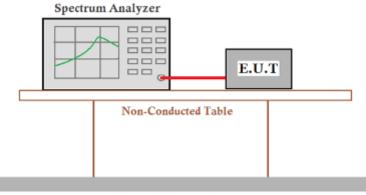


Report No.: SHEM170300113501

Page: 16 of 18

6.5 Dwell Time

Test Setup:



Ground Reference Plane

15.231 (e): Devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration

Limit: 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.

Test Results: Pass

Measurement Data:

moadaromont Datar				
Test item	Result (s)	Limit (s)	Results	
Transmission Duration	0.342	≤1s	Pass	
Silent Period	61.404	≥30*Duration(10.26s)	Pass	
Silent Fenou	01.404	≥10s		

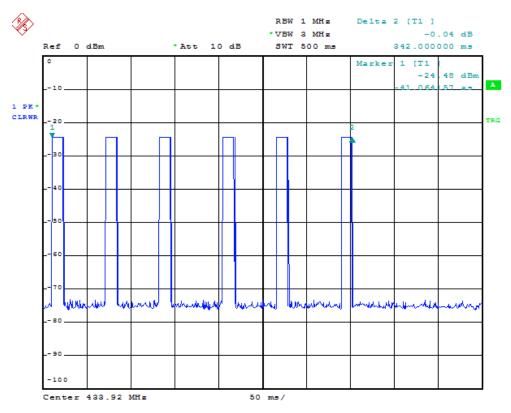
Test plot as follows:



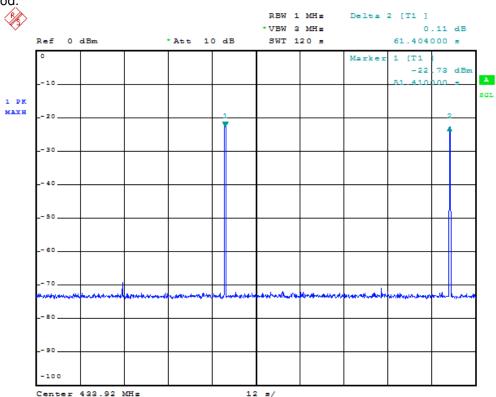
Report No.: SHEM170300113501

Page: 17 of 18

Duration:



Silent Period:



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Report No.: SHEM170300113501

Page: 18 of 18

7 Test Setup Photographs

Refer to the < TPS3.1 _Test Setup photos-FCC>.

8 EUT Constructional Details

Refer to the < TPS3.1_External Photos > & < TPS3.1_Internal Photos >.

-- End of the Report--