

GIOBAL United Technology Services Co., Ltd.

Report No.: GTS201805000205F02

FCC REPORT

Applicant:	Autel Intelligent Tech. Corp., Ltd.
Address of Applicant:	6th - 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd., Xili, Nanshan, Shenzhen 518055, China
Manufacturer/Factory:	Autel Intelligent Tech. Corp., Ltd.
Address of Manufacturer/Factory:	6th - 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd., Xili, Nanshan, Shenzhen 518055, China
Equipment Under Test (E	EUT)
Product Name:	PROFESSIONAL SCAN TOOL
Model No.:	TS508WF
Trade Mark:	AUTEL
FCC ID:	WQ8MTPMS508WF
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.231
Date of sample receipt:	May 20, 2018
Date of Test:	May 21, 2018-June 05, 2018
Date of report issued:	June 06, 2018
Test Result :	PASS *

In the configuration tested, the EUT complied with the standards specified above. *

Authorized Signature:



Robinson Lo Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



2 Version

Version No.	Date	Description
01	June 06, 2018	Original

Bill. yuan Prepared By: June 06, 2018 Date: **Project Engineer** M Check By: June 06, 2018 Date: Reviewer



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna Requirement	15.203	Pass
Conduction Emission	15.207	Pass
Field strength of the Fundamental Signal	15.231 (e)	Pass
Spurious Emissions	15.231 (e)/15.209	Pass
20dB Bandwidth	15.231 (c)	Pass
Dwell Time	15.231 (e)	Pass

Pass: The EUT complies with the essential requirements in the standard.

4.1 Measurement Uncertainty

Test Item	Frequency Range Measurement Uncertainty					
Radiated Emission	9kHz ~ 30MHz ± 4.34dB		(1)			
Radiated Emission	30MHz ~ 1000MHz	\pm 4.24dB	(1)			
Radiated Emission	1GHz ~ 26.5GHz	lz ± 4.68dB				
AC Power Line Conducted Emission	$() 15MHZ \sim 30MHZ = + 3.45dH$		(1)			
Note (1): The measurement u	Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.					



5 General Information

5.1 General Description of EUT

Product Name:	PROFESSIONAL SCAN TOOL
Model No.:	TS508WF
Serial No.:	000001
Test sample(s) ID:	GTS201805000205-1
Sample(s) Status:	Engineer sample
Hardware Version:	V3
Software Version:	V1.00
Operation Frequency:	433.92MHz, 315MHz
Modulation technology:	ASK+FSK
Antenna Type:	PCB Antenna
Antenna gain:	0dBi (declare by applicant)
Power supply:	Adapter:
	Model:GME10C-050200FUu
	Input: AC 100-240V, 50/60Hz, 0.28A
	Output: DC 5V, 2A
	Battery: DC 3.7V, 3000mAh, 11.10Wh

5.2 Test mode

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Transmitting mode
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Keep the EUT in transmitting mode.

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which only the worst case was shown in this test report and defined as follows:

	Axis	Х	Y	Z
433.92MHz	Field Strength(dBuV/m)	77.25	78.77	78.31
	Axis	Х	Y	Z
315MHz	Field Strength(dBuV/m)	76.86	77.05	76.05

5.3 Description of Support Units

Manufacturer	Description	Description Model		
ECU	N/A	M25	N/A	

5.4 Test Facility

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

• FCC — Registration No.: 381383

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383, January 08, 2018.

• Industry Canada (IC) — Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China Tel: 0755-27798480 Fax: 0755-27798960

5.6 Other Information Requested by the Customer

None.



6 Test Instruments list

Rad	Radiated Emission:							
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.0(L)*6.0(W)* 6.0(H)	GTS250	July. 03 2015	July. 02 2020		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June 28 2017	June 27 2018		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 28 2017	June 27 2018		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 28 2017	June 27 2018		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829 GTS208		June 28 2017	June 27 2018		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 28 2017	June 27 2018		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	June 28 2017	June 27 2018		
10	Coaxial Cable	GTS	N/A	GTS211	June 28 2017	June 27 2018		
11	Coaxial cable	GTS	N/A	GTS210	June 28 2017	June 27 2018		
12	Coaxial Cable	GTS	N/A	GTS212	June 28 2017	June 27 2018		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 28 2017	June 27 2018		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 28 2017	June 27 2018		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 28 2017	June 27 2018		

Gen	General used equipment:							
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Barometer	ChangChun	DYM3	GTS257	June 29 2016	June 28 2017		



7 Test results and Measurement Data

7.1 Antenna Requirement

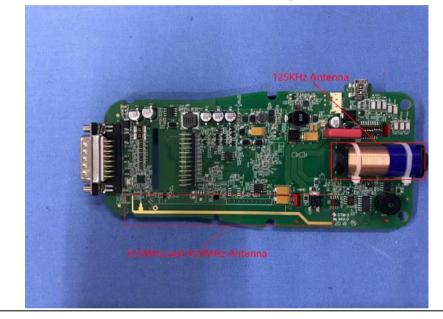
Standard requirement: FCC Part15 C Section 15.203

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.

EUT Antenna:

The antenna is PCB antenna, the best case gain of the antenna is 0dBi.





7.2 Conducted Emissions

Report No.: GTS201805000205F02

Test Requirement:FCC Part15 C Section 15.207Test Method:ANSI C63.10:2013Test Frequency Range:150KHz to 30MHz

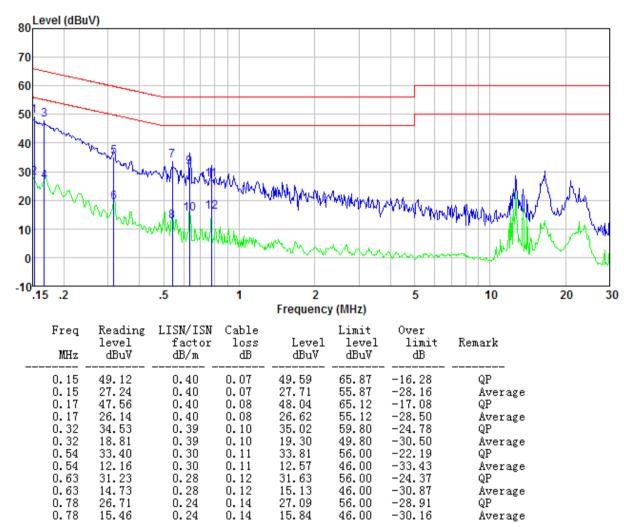
Test Frequency Range:	150KHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto					
Limit:		Limit (dBuV)				
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
Test estur:	* Decreases with the logarithm	n of the frequency.				
Test setup:	Reference Plane					
	LISN 40cm 80cm AUX Equipment E.U.T Fequipment E.U.T Test table/Insulation plane Remarkc E.U.T. Equipment Under Test LISN: Line impedence Stabilization Network Test table height=0.8m 8m	LISN Filter AC pow				
Test procedure:	1. The E.U.T and simulators a line impedance stabilization 500hm/50uH coupling impe	n network (L.I.S.N.). Th	is provides a			
	 The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 					
	3. 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.					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					

Measurement data:



433.92MHz

Line:





0.97

10.68

0.21

0.15

11.04

46.00

-34.96

Average

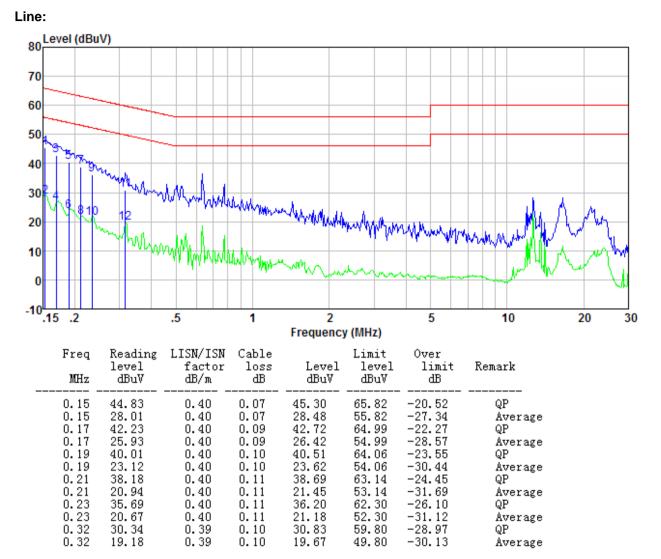
Report No.: GTS201805000205F02

Neutral: 80 Level (dBuV) 70 60 50 40 Â1 30 20 10 0 -10 .15 .2 .5 1 2 5 10 20 30 Frequency (MHz) LISN/ISN Freq Reading Cable Limit Over level level factor loss Level limit Remark MHzdBu∛ dB/m dB dBu∛ dBu∛ dB QP 0.16 48.71 0.40 0.08 49.19 65.60 -16.410.08 -31.31 23.81 0.40 24.29 55.60 0.16 Average 0.31 0.31 0.54 0.39 0.39 32.85 0.10 33.34 59.88 -26.54QP 19.93 20.42 49.88 0.10 -29.46 Average 29.25 0.30 0.11 29.66 56.00 -26.34 QP 0.54 14.04 0.30 0.11 14.45 46.00 -31.55 Average 0.63 0.63 31.09 0.28 31.49 56.00 -24.51 QP 0.12 15.86 0.28 0.12 16.26 46.00 -29.74 Average 0.24 0.24 0.21 0.78 -28.48 -34.73 27.14 0.14 27.52 56.00 QP 11.27 10.89 0.14 46.00 Average 0.97 24.92 0.15 25.28 56.00 -30.72 QP



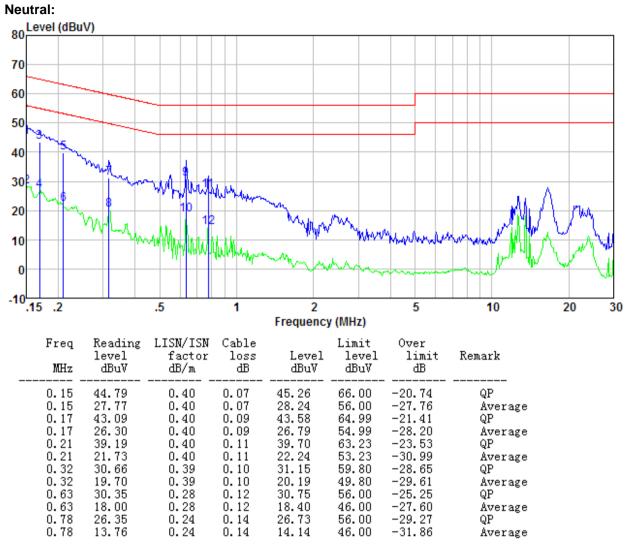
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315MHz





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Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.

2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

3. Final Level =Receiver Read level + LISN Factor + Cable Loss



7.3 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.231 (e)& Section 15.209						
 Test Method:	ANSI C63.10:2013						
Test Frequency Range:	9kHz to 5000MHz						
Test site:	Measurement Distar	nce: 3r	n	I	r		r
Receiver setup:	Frequency	De	tector	RBW	VB	W	Value
	9KHz-150KHz	Qua	si-peak	200Hz	600	Hz	Quasi-peak
	150KHz-30MHz	Qua	si-peak	9KHz	30K	Hz	Quasi-peak
	30MHz-1GHz	Qua	si-peak	100KHz	300k	Ήz	Quasi-peak
	Above 1GHz	F	Peak	1MHz	3MI	Ηz	Peak
	715070 10112	F	Peak	1MHz	10H	lz	Average
Limit:	Frequency		Limit	(dBuV/m @	3m)		Remark
(Field strength of the	433.92MHz			72.87 92.87			verage Value Peak Value
fundamental signal)	045141-			67.66			verage Value
	315MH7					Peak Value	
Limit: (Spurious Emissions)	Fundamental Frequenc (MHz)	cy F	-	of fundamental lts/meter)	Fie	Field Strength of Unwanted Emissions (microvolts/meter)	
	40.66 - 40.70		1,000			100	
	70 - 130		500			50	
	130 - 174		500 to 1,500 **			50 to 1,50 **	
	174 - 260 260 - 470		1,500 1,500 to 5,000 **			1,50 1,50 to 5,00 **	
	Above 470			000 5,00			
				Class B (d	IBuV/m)	(at 3M)
	FREQUENCY (MHz)		PE	AK		A	VERAGE
	Above 1000				<u> </u>		54
	Or The maximum pe maximum permitted f strength.						
Test setup:	Below 30MHz						
Turntable <u>FUT</u> <u>Ground Plane</u> <u>Ground Plane</u> <u>Below 1GHz</u>							
	Below 1GHz						



	Report No.: GTS201805000205F02
	Above 1GHz
	<pre></pre>
Test Procedure:	 The EUT was placed on the top of a rotating table (0.8 meters for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving
	antenna, which was mounted on the top of a variable-height antenna tower.
	3. 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.
	4. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. 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.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass



Measurement data:

7.3.1 Field Strength of The Fundamental Signal

433.92MHz

Peak value:

Fraguanay	Read	Ant	enna	Cable	Preamp	Level	Lim	it Line	Over	
Frequency (MHz)	Level	Fa	ctor	Loss	Factor	(dBuV/m)		uV/m)	Limit	polarization
(11112)	(dBuV)	(dE	3/m)	(dB)	(dB)	(ubuv/iii)	(ub	uv/m)	(dB)	
433.92	87.65	17	<i>.</i> 53	3.02	29.43	78.77	92	2.87	-14.10	Horizontal
433.92	82.71	17	<i>.</i> 53	3.02	29.43	73.83	92	2.87	-19.04	Vertical
Average valu	le:									·
Frequency (MHz)	Peak V (dBuV			r cycle ctor	Average value (dBuV/m)	Limit Li (dBuV/			Limit B)	Polarization
433.92	78.7	7	-1	5.74	63.03	72.87	7	-9.	.84	Horizontal
433.92	73.8	3	-1	5.74	58.09	72.87	7	-14	.78	Vertical

315 MHz

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
315.00	88.62	15.28	2.44	29.29	77.05	87.66	-10.61	Horizontal
315.00	83.51	15.28	2.44	29.91	71.32	87.66	-16.34	Vertical

Average value:

Frequency (MHz)	Peak Value (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
315.00	77.05	-15.56	61.49	67.66	-6.17	Horizontal
315.00	71.32	-15.56	55.76	67.66	-11.90	Vertical

Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. Average value=Peak value + Duty cycle factor



7.3.2 Spurious Emissions

Measurement data:

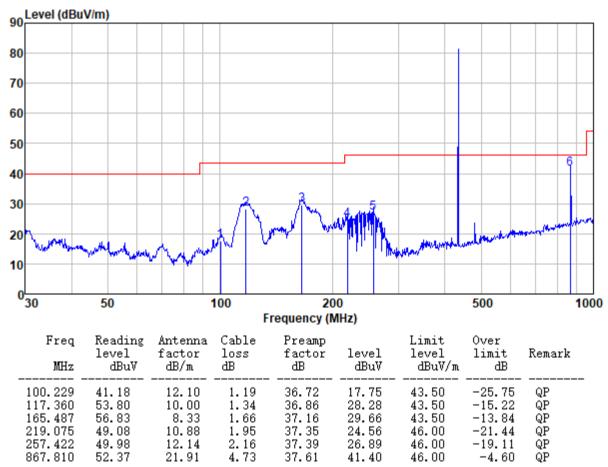
9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

433.92MHz

Below 1GHz:

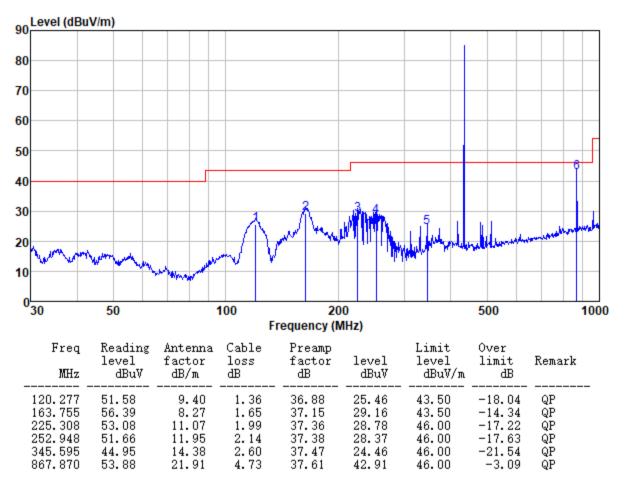
Vertical:





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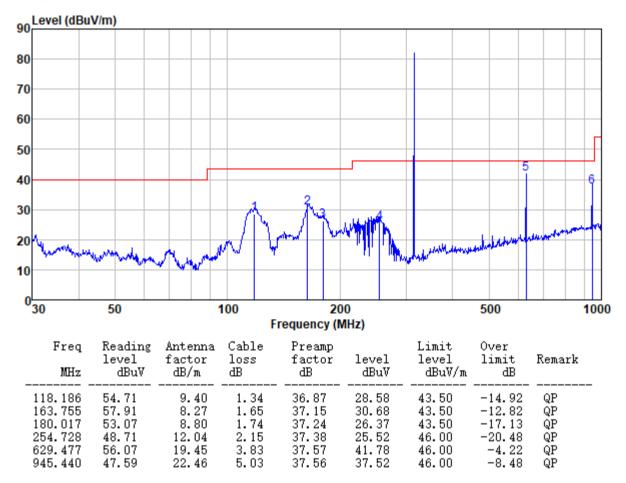
Horizontal:





315 MHz

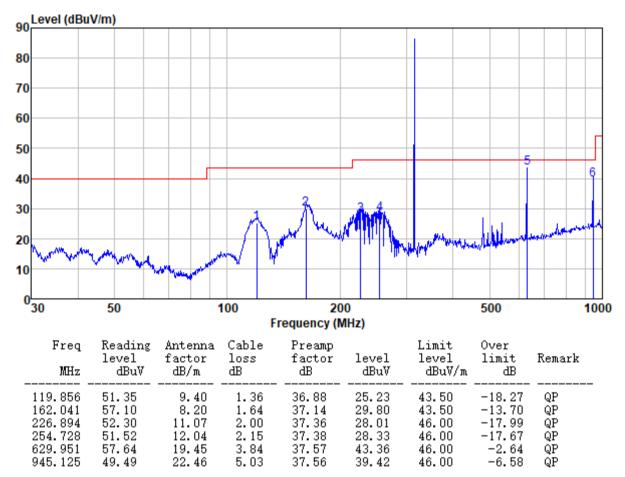
Vertical:





Horizontal:

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Above 1G:

Peak value: (433.92MHz)

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1735.68	50.42	25.05	4.82	34.00	46.29	72.87	-26.58	Vertical
2169.60	36.15	27.74	5.15	34.27	34.77	72.87	-38.10	Vertical
2603.52	38.71	27.82	5.58	33.78	38.33	72.87	-34.54	Vertical
1298.59	56.71	25.63	4.54	33.27	53.61	72.87	-19.26	Horizontal
1735.68	46.95	25.05	4.82	34.00	42.82	72.87	-30.05	Horizontal
2169.60	40.82	27.74	5.15	34.27	39.44	72.87	-33.43	Horizontal
2603.52	36.75	27.82	5.58	33.78	36.37	72.87	-36.50	Horizontal

Average value:

Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1735.68	46.29	-15.74	30.55	52.87	-22.32	Vertical
2169.60	34.77	-15.74	19.03	52.87	-33.84	Vertical
2603.52	38.33	-15.74	22.59	52.87	-30.28	Vertical
1735.68	42.82	-15.74	27.08	52.87	-25.79	Horizontal
2169.60	39.44	-15.74	23.70	52.87	-29.17	Horizontal
2603.52	36.37	-15.74	20.63	52.87	-32.24	Horizontal

Peak value: (315MHz)

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1260.00	39.08	25.55	4.51	33.18	35.96	67.66	-31.70	Vertical
1890.00	36.81	25.70	4.90	34.26	33.15	67.66	-34.51	Vertical
2520.00	33.67	27.58	5.51	33.88	32.88	67.66	-34.78	Vertical
1260.00	38.63	25.55	4.51	33.18	35.51	67.66	-32.15	Horizontal
1890.00	38.17	25.70	4.90	34.26	34.51	67.66	-33.15	Horizontal
2520.00	36.95	27.58	5.51	33.88	36.16	67.66	-31.50	Horizontal

Average value: (315MHz)

Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1260.00	35.96	-15.56	20.40	47.66	-27.26	Vertical
1890.00	33.15	-15.56	17.59	47.66	-30.07	Vertical
2520.00	32.88	-15.56	17.32	47.66	-30.34	Vertical
1260.00	35.51	-15.56	19.95	47.66	-27.71	Horizontal
1890.00	34.51	-15.56	18.95	47.66	-28.71	Horizontal
2520.00	36.16	-15.56	20.60	47.66	-27.06	Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. Average value=Peak value + Duty cycle factor

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7.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.231 (c)				
Test Method:	ANSI C63.10:2013				
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 900MHz. 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 setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				

Measurement Data

Test Frequency (MHz)	20dB bandwidth (MHz)	Limit (MHz)	Result
315.00	0.073	0.79	Pass
433.92	0.074	1.08	Pass

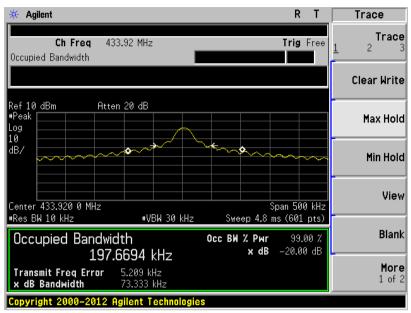
Note: Limit= Fundamental frequency×0.25%

433.92×0.25%=1.08MHz

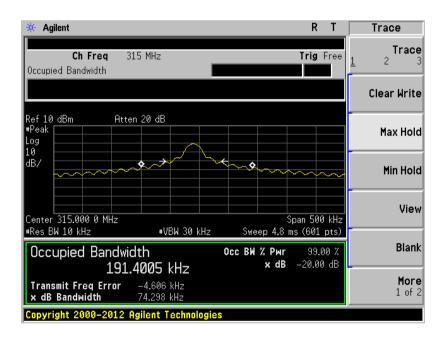
315×0.25%=0.79MHz



Test plot as follows: 433.92MHz



315MHz



7.5 Dwell Time

Test Requirement:	FCC Part15 C Section 15.231 (e)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=100KHz, VBW=100KHz, span=0Hz, detector: Peak
Limit:	Not more than 1 seconds
	Silent period: at least 30 times the duration of the transmission or more than 10 seconds
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement data:

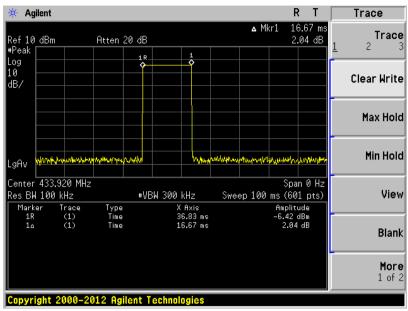
Frequency (MHz)	Duration of each TX (second)	Limit (second)	Result
433.92	0.0167	<1.0	Pass
315.00	0.0165	<1.0	Pass

Silent period

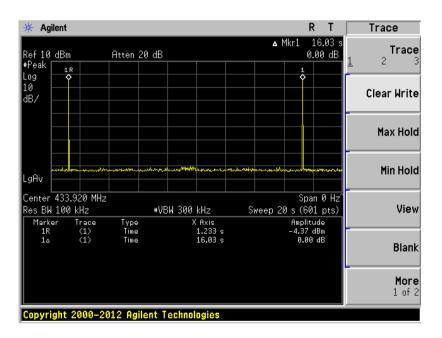
Frequency (MHz)	Duration of each TX (seconds):	Limit (seconds)	Result
315.00	16.03	At least 30 times the duration of the	Pass
433.92	16.03	transmission or more than 10 seconds	Pass



Test plot as follows: **433.92MHz**

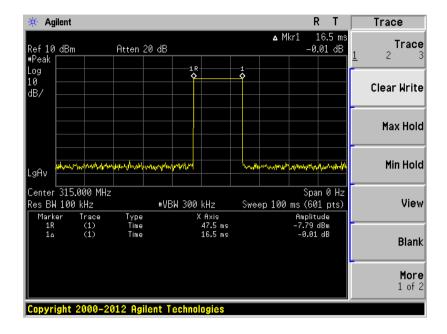


Silent period

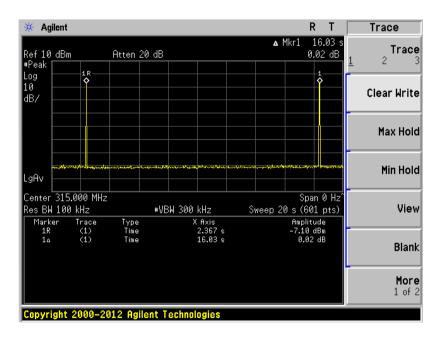




315MHz



Silent period



7.6 Duty Cycle

Test Requirement:	FCC Part15 C Section 15.231
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=100KHz, VBW=100KHz, span=0Hz, detector: Peak
Limit:	No dedicated limit specified in the Rules.
Test Procedure:	 Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer. Set centre frequency of spectrum analyzer=operating frequency. Set the spectrum analyzer as RBW=100kHz, VBW=100KHz, Span=0Hz, Adjust Sweep=100ms to obtain the "worst-case" pulse on time
Test setup:	5. Repeat above procedures until all frequency measured was complete. Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement data:

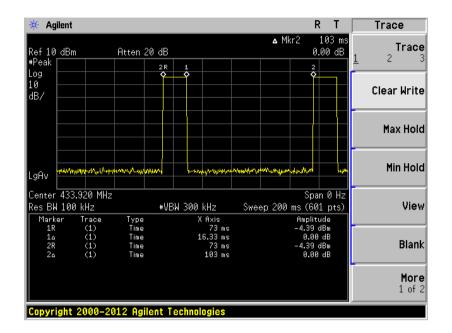
Calculate Formula:	Duty cycle factor =20 log(Duty cycle)
	Duty cycle=on time/0.1 seconds or period, whichever is less
Test data:	
433.92MHz	
	T on time =16.33 (ms)
	T period =103(ms)
	Duty cycle=16.33/100=16.33%
	Duty cycle factor =20 log(0.4388)=-15.74
315MHz	
	T on time =16.67(ms)
	T period =103(ms)
	Duty cycle=16.67/100=16.67%
	Duty cycle factor =20 log(0.4388)=-15.56



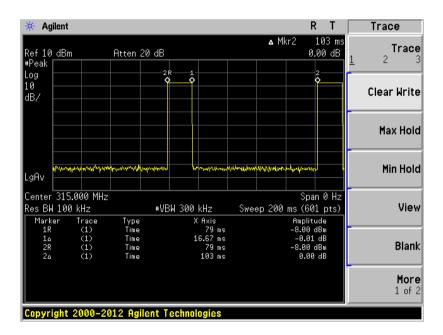


Test plot as follows:

433.92MHz



315MHz

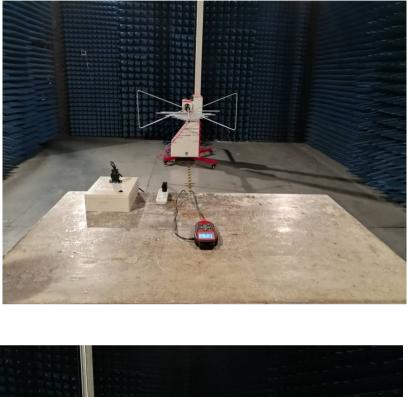


Report No.: GTS201805000205F02



8 Test Setup Photo

Radiated Emission





Conducted Emission



9 EUT Constructional Details

Reference to the test report No. GTS201805000205F01

----- End ------