

# **Test Report**

**Report No.:** MTi230726003-05E1

**Date of issue:** 2023-08-08

**Applicant:** APTIV Services US LLC

**Product:** Keyless entry and tire pressure monitoring receiver

Model(s): FI3-TR433UDA

FCC ID: L2C0090TR



# Instructions

- 1. This test report shall not be partially reproduced without the written consent of the laboratory.
- 2. The test results in this test report are only responsible for the samples submitted
- 3. This test report is invalid without the seal and signature of the laboratory.
- 4. This test report is invalid if transferred, altered, or tampered with in any form without authorization.
- 5. Any objection to this test report shall be submitted to the laboratory within 15 days from the date of receipt of the report.



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Test Result Certification			
Applicant:	APTIV Services US LLC		
Address:	113085 Hamilton Crossing Boulevard Carmel, Indiana, 46032		
Manufacturer:	APTIV Services US LLC		
Address:	113085 Hamilton Crossing Boulevard Carmel, Indiana, 46032		
Factory:	APTIV Services US LLC		
Address:	113085 Hamilton Crossing Boulevard Carmel, Indiana, 46032		
Product description	1		
Product name:	Keyless entry and tire pressure monitoring receiver		
Trademark:	Stellantis		
Model name:	FI3-TR433UDA		
Series Model:	N/A		
Standards:	FCC 47 CFR Part 15 Subpart C		
Test method:	ANSI C63.10-2013		
Date of Test	•		
Date of test:	2023-08-02 ~ 2023-08-08		
Test result:	Pass		

Test Engineer	:	letter.lan.		
		(Letter Lan)		
Reviewed By:	:	lear chen		
		(Leon Chen)		
Approved By:	:	tom Xue		
		(Tom Xue)		



# 1. General Description

### 1.1 Description of the EUT

Product name:	Keyless entry and tire pressure monitoring receiver
Model name:	FI3-TR433UDA
Series Model:	N/A
Model difference:	There are two versions of the prototype, only the antenna is different, one is the external antenna, one is the internal antenna, the main test is the external antenna, the difference test is the internal antenna.
Electrical rating:	Input: DC 13V 2.5A
Accessories:	N/A
Hardware version:	PV_HW1.0
Software version:	HSW_10034542_RFHM_2023_21_01
Test sample(s) number:	MTi230726003-05S1001 MTi230726003-05S1002
RF specification:	
Operation frequency:	RX: 433.92MHz TX:125KHz
Modulation type:	ASK
Antenna type:	coil antenna(TX antenna) PCB antenna(external RX antenna) Metal shrapnel antenna (internal RX antenna)
Antenna(s) gain:	0 dBi

### 1.2 Description of test modes

All the test modes were carried out with the EUT in normal operation, the final test mode of the EUT was the worst test mode for emission test, which was shown in this report and defined as:

No.	Emission test modes		
Mode1	433.92MHz RX with external antenna + RFID 125kHz with short LF transmitter antenna 1		
Mode2	433.92MHz RX with external antenna + RFID 125kHz with short LF transmitter antenna 2		
Mode3	433.92MHz RX with external antenna + RFID 125kHz with short LF transmitter antenna 3		
Mode4	433.92MHz RX with interna antenna + RFID 125kHz with short LF transmitter antenna 1		
Mode5	433.92MHz RX with interna antenna + RFID 125kHz with short LF transmitter antenna 2		
Mode6	433.92MHz RX with interna antenna + RFID 125kHz with short LF transmitter antenna 3		

external antenna worst test mode of: Mode 2 internal antenna worst test mode of: Mode 5

**Note:** All modes are pretested, and the worst mode is reported for the external antenna and the internal antenna.



### 1.3 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment list				
Description	Model	Serial No.	Manufacturer	
ACCUMULATOR	55D23LX	1	CAMEL	
Support cable list				
Description	Length (m)	From	То	
1	1	1	1	

#### 1.4 Environmental conditions

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

Temperature:	15°C~35°C
Humidity:	20 % RH ~ 75 % RH
Atmospheric pressure:	98 kPa~101 kPa

Address: 101, No. 7, Zone2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China Tel: (86-755)88850135 Fax: (86-755) 88850136 Web: www.mtitest.com E-mail: mti@51mti.com



# 2. Measurement uncertainty

Measurement	Uncertainty
Conducted emission (9 kHz~30 MHz)	± 2.5 dB
Radiated emission (9 kHz ~ 30 MHz)	± 4.0dB
Radiated emission (30 MHz~1 GHz)	± 4.2 dB
Radiated emission (above 1 GHz)	± 4.3 dB
Occupied bandwidth	± 3 %
Temperature	±1 degree
Humidity	± 5 %

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

# 3. Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573



# 4. Summary of Test Result

No.	FCC reference	Description of test	Result	
	Emission			
1	FCC Part 15.203	Antenna requirement	Pass	
2	FCC Part 15.207	AC power line Conducted emissions	N/A	
3	FCC Part 15.209	Radiated emissions	Pass	
4	FCC Part 15.215	Occupied bandwidth	Pass	

Note: The device is a DC power supply and does not apply to conducted emissions.



# 5. List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTi-E043	EMI test receiver	R&S	ESCI7	101166	2023/04/26	2024/04/25
MTi-E044	Broadband antenna	Schwarzbeck	VULB9163	9163-1338	2021/05/30	2024/05/29
MTi-E045	Horn antenna	Schwarzbeck	BBHA9120D	9120D-2278	2021/05/30	2024/05/29
MTi-E046	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2021/05/30	2024/05/29
MTi-E047	Pre-amplifier	Hewlett-Packard	8447F	3113A06184	2023/04/26	2024/04/25
MTi-E048	Pre-amplifier	Agilent	8449B	3008A01120	2023/05/04	2024/05/03
MTi-E005	EMI test receiver	R&S	ESPI7	100314	2023/04/26	2024/04/25
MTi-E120	Broadband antenna	Schwarzbeck	VULB9163	9163-1419	2021/05/30	2024/05/29
MTi-E121	Pre-amplifier	Hewlett-Packard	8447D	2944A09365	2023/05/04	2024/05/03
MTi-E123	Pre-amplifier	Agilent	8449B	3008A04723	2023/05/04	2024/05/03
MTi-E001	Artificial Mains Network	R&S	ESH2-Z5	100263	/	/
MTi-E002	EMI Test Receiver	R&S	ESCI3	101368	2023/04/26	2024/04/25
MTi-E023	Artificial power network	Schwarzbeck	NSLK8127	NSLK8127# 841	2023/05/04	2024/05/03
MTi-E025	Artificial power network	Schwarzbeck	NSLK8127	8127183	2023/04/26	2024/04/25
MTi-E026	8-wire Impedance Stabilization Network	Schwarzbeck	NTFM 8158	NTFM 8158 #199	2023/04/26	2024/04/25
MTi-E043	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2023/04/26	2024/04/25
MTi-E024	Artificial power network	Schwarzbeck	NSLK8127	01001	2023/05/06	2024/05/05

**Note:** the calibration interval of the test equipment is 12 or 24 months and the calibrations are traceable to international system unit(SI)



#### 6. Test Results

#### 6.1 Antenna 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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### **Description of the EUT antenna**

The antenna of EUT is external antenna and internal antenna, No consideration of replacement.



#### 6.2 AC power line conducted emissions

#### **6.2.1** Limits

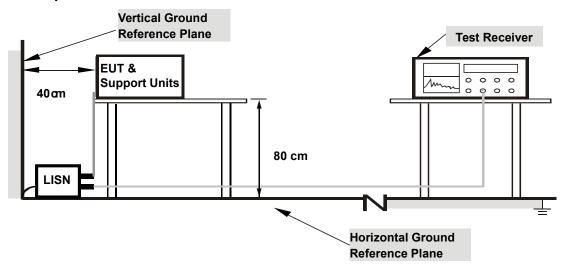
Frequency (MHz)	Detector type / Bandwidth	Limit-Quasi-peak dBµV	Limit-Average dBµV
0.15 -0.5		66 to 56	56 to 46
0.5 -5	Average / 9 kHz	56	46
5 -30		60	50

**Note 1:** the limit decreases with the logarithm of the frequency in the range of 0.15 MHz to 0.5 MHz.

#### 6.2.2 Test Procedures

- a) The test setup is refer to the standard ANSI C63.10-2013.
- b) The EUT is connected to the main power through a line impedance stabilization network (LISN). All support equipment is powered from additional LISN(s).
- c) Emissions were measured on each current carrying line of the EUT using an EMI test receiver connected to the LISN powering the EUT.
- d) The test receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes described in Item 1.2.
- e) The test data of the worst-case condition(s) was recorded.

#### 6.2.3 Test setup



For the actual test configuration, please refer to the related item – Photographs of the test setup.

### 6.2.4 Test Result

#### **Calculation formula:**

Measurement (dB $\mu$ V) = Reading Level (dB $\mu$ V) + Correct Factor (dB) Over (dB) = Measurement (dB $\mu$ V) - Limit (dB $\mu$ V)

Note: The device is a DC power supply and does not apply to conducted emissions.

#### 6.3 Radiated emissions

#### **6.3.1** Limits

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

**Note 1:** the tighter limit applies at the band edges.

**Note 2:** 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 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector

#### § 15.35 (b) requirements:

When average radiated emission measurements are specified in this part, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. Unless otherwise specified, e.g., see §§ 15.250, 15.252, 15.253(d), 15.255, 15.256, and 15.509 through 15.519, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.

According to ANSI C63.10, the tests shall be performed in the frequency range shown in the following table:

### Frequency range of measurements for unlicensed wireless device

Lowest frequency generated in the device	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz, whichever is lower
At or above 10 GHz to below 30 GHz	5th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified

### Frequency range of measurements for unlicensed wireless device with digital device

Highest frequency generated or used in the device or on which the device operates or tunes	Upper frequency range of measurement
Below 1.705 MHz	30 MHz
1.705 MHz to 108 MHz	1000 MHz
108 MHz to 500 MHz	2000 MHz
500 MHz to 1000 MHz	5000 MHz
Above 1000 MHz	5th harmonic of the highest frequency or 40 GHz, whichever is lower

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#### **Test instrument setup**

Frequency	Test receiver / Spectrum analyzer setting
9 kHz ~ 150 kHz	Quasi Peak / 200 Hz
150 kHz ~ 30 MHz	Quasi Peak / 9 kHz
30 MHz ~ 1 GHz	Quasi Peak / 120 kHz

#### 6.3.2 Test Procedures

The EUT is placed on a non-conducting table 80cm above the ground plane for measurement below 1 GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10-2013.

For measurement below 1 GHz, the resolution bandwidth is set as item 5.4.2.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned form 1 to 4m meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and horizontal positions.

#### Special requirements for 9 kHz to 30 MHz:

The lowest height of the magnetic antenna shall be 1 m above the ground

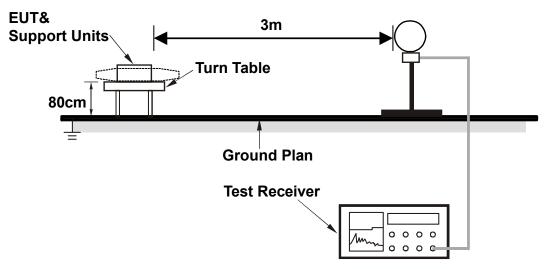
When the EUT contains a loop antenna that can only be placed in a vertical axis, normal measurements shall be made aligning the measurement antenna along the site axis, and then orthogonal to the axis. For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable.

When the EUT contains a loop antenna that can be placed in a horizontal or vertical axis, normal measurements shall be made aligning the measurement antenna along the site axis, orthogonal to the axis, and then with the measurement antenna horizontal. For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable.

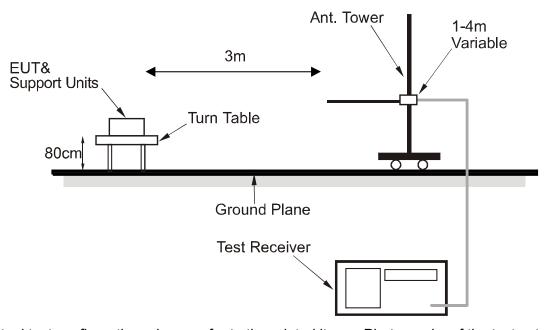


#### 6.3.3 Test Setup

#### Below 30 MHz:



#### **Below 1 GHz:**



For the actual test configuration, please refer to the related item – Photographs of the test setup.

#### 6.3.4 Test result

#### **Calculation formula:**

Measurement (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Correct Factor (dB/m) Over (dB) = Measurement (dB $\mu$ V/m) – Limit (dB $\mu$ V/m)

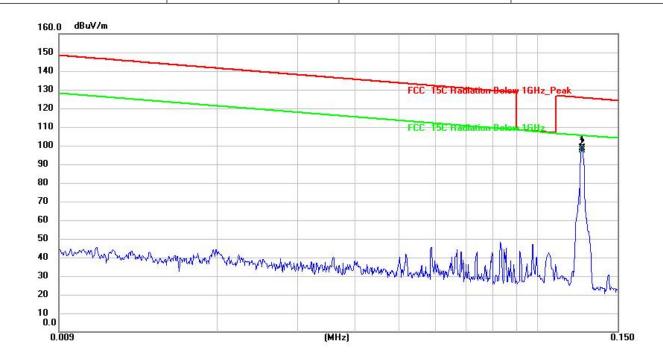
**Note:** For 9 kHz - 30 MHz testing, all the required orthogonal orientations of the measurement loop antenna were performed for pre-scan, the maximum radiated transmissions (Site axis) were recorded.



## Frequency 9 kHz ~ 150 kHz

external antenna:

Test mode:	Mode 2	Polarization:	FI3-TR433UDA
Power supply:	Powered by DC 13V	Test site:	RE chamber 1

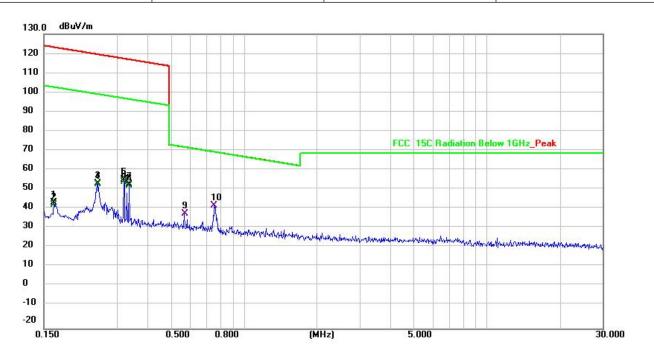


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		0.1253	78.71	19.99	98.70	125.67	-26.97	peak
2	*	0.1253	77.51	19.99	97.50	105.67	-8.17	AVG



### Frequency 150 kHz ~ 30 MHz

Test mode:	Mode 2	Polarization:	FI3-TR433UDA
Power supply:	Powered by DC 13V	Test site:	RE chamber 1

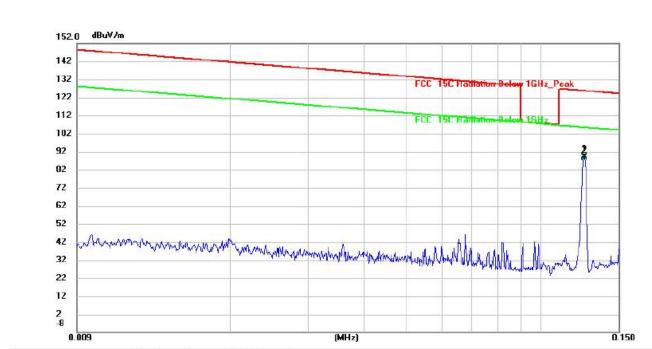


71077					1355	37375		
No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		0.1650	24.27	20.15	44.42	123.27	-78.85	peak
2		0.1650	22.95	20.15	43.10	103.27	-60.17	AVG
3		0.2481	34.17	20.06	54.23	119.72	-65.49	peak
4		0.2481	33.54	20.06	53.60	99.72	-46.12	AVG
5		0.3200	35.96	19.98	55.94	117.51	-61.57	peak
6		0.3200	34.82	19.98	54.80	97.51	-42.71	AVG
7		0.3356	33.91	19.96	53.87	117.09	-63.22	peak
8		0.3356	32.94	19.96	52.90	97.09	-44.19	AVG
9		0.5670	19.08	19.76	38.84	72.54	-33.70	QP
10	*	0.7549	23.19	19.72	42.91	70.06	-27.15	QP



#### internal antenna:

Test mode:	Mode 5	Polarization:	FI3-TR433UDA
Power supply:	Powered by DC 13V	Test site:	RE chamber 1

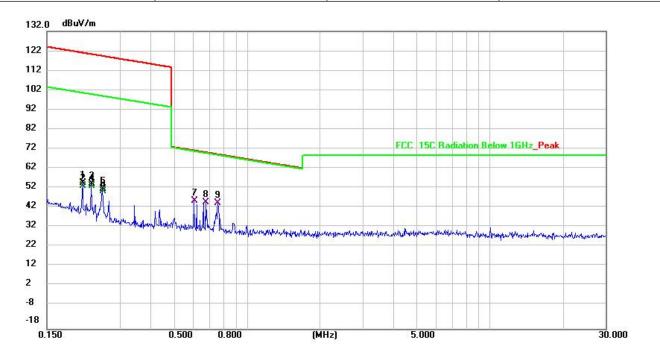


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	0.1253	69.41	19.99	89.40	125.67	-36.27	peak		
2 *	0.1253	68.71	19.99	88.70	105.67	-16.97	AVG		



### Frequency 150 kHz ~ 30 MHz

Test mode:	Mode 5	Polarization:	FI3-TR433UDA
Power supply:	Powered by DC 13V	Test site:	RE chamber 1

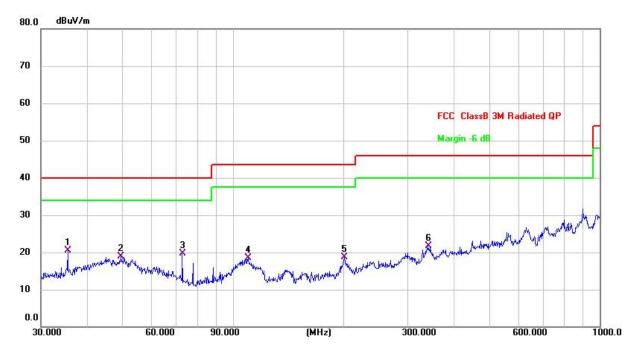


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	0.2105	35.69	20.10	55.79	121.15	-65.36	peak
2	0.2105	34.00	20.10	54.10	101.15	-47.05	AVG
3	0.2280	35.16	20.08	55.24	120.46	-65.22	peak
4	0.2280	34.22	20.08	54.30	100.46	-46.16	AVG
5	0.2535	32.58	20.05	52.63	119.53	-66.90	peak
6	0.2535	31.55	20.05	51.60	99.53	-47.93	AVG
7	0.6043	27.02	19.75	46.77	71.98	-25.21	QP
8	0.6753	26.36	19.73	46.09	71.02	-24.93	QP
9 *	0.7589	25.77	19.72	45.49	70.01	-24.52	QP



external antenna:

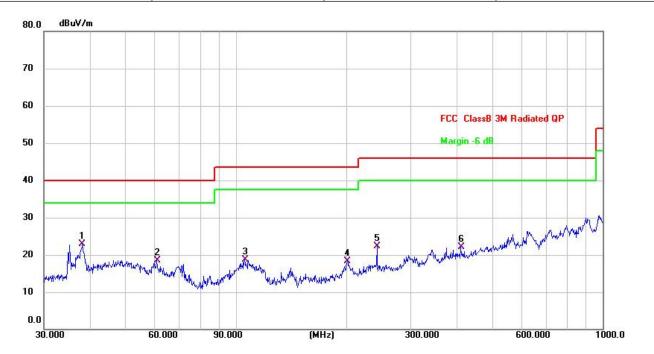
Test mode:	Mode 2	Polarization:	Horizontal
Power supply:	Powered by DC 13V	Test site:	RE chamber 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	35.4993	30.43	-9.93	20.50	40.00	-19.50	QP
2		49.5328	26.09	-7.26	18.83	40.00	-21.17	QP
3		72.8466	31.12	-11.49	19.63	40.00	-20.37	QP
4		110.1816	25.73	-7.32	18.41	43.50	-25.09	QP
5		201.3930	25.26	-6.57	18.69	43.50	-24.81	QP
6		340.7817	25.44	-3.81	21.63	46.00	-24.37	QP



Test mode:	Mode 2	Polarization:	Vertical
Power supply:	Powered by DC 13V	Test site:	RE chamber 1

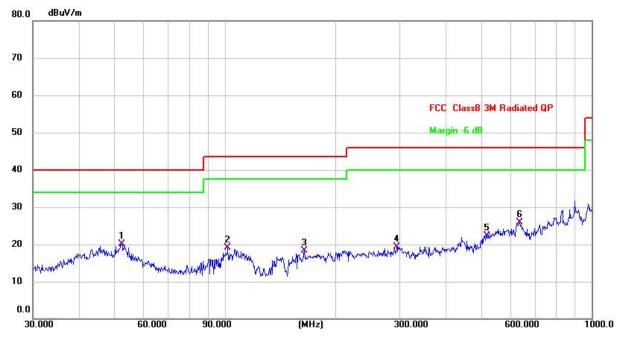


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	38.2120	32.00	-9.04	22.96	40.00	-17.04	QP
2		60.9176	27.50	-9.09	18.41	40.00	-21.59	QP
3		105.6415	25.98	-7.18	18.80	43.50	-24.70	QP
4		201.3930	24.95	-6.57	18.38	43.50	-25.12	QP
5		242.5253	29.70	-7.32	22.38	46.00	-23.62	QP
6		410.3825	26.81	-4.79	22.02	46.00	-23.98	QP



external antenna:

Test mode:	Mode 5	Polarization:	Horizontal		
Power supply:	Powered by DC 13V	Test site:	RE chamber 1		
80.0 dBuV/m					



Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
*	52.3911	27.59	-7.53	20.06	40.00	-19.94	QP
	102.0013	27.03	-7.93	19.10	43.50	-24.40	QP
	164.9071	29.32	-11.10	18.22	43.50	-25.28	QP
	294.1136	24.42	-5.02	19.40	46.00	-26.60	QP
	517.2476	26.19	-3.83	22.36	46.00	-23.64	QP
	636.1340	25.97	-0.14	25.83	46.00	-20.17	QP
		* 52.3911 102.0013 164.9071 294.1136 517.2476	Mk. Freq. Level  MHz dBuV  * 52.3911 27.59  102.0013 27.03  164.9071 29.32  294.1136 24.42  517.2476 26.19	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           *         52.3911         27.59         -7.53           102.0013         27.03         -7.93           164.9071         29.32         -11.10           294.1136         24.42         -5.02           517.2476         26.19         -3.83	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           *         52.3911         27.59         -7.53         20.06           102.0013         27.03         -7.93         19.10           164.9071         29.32         -11.10         18.22           294.1136         24.42         -5.02         19.40           517.2476         26.19         -3.83         22.36	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           *         52.3911         27.59         -7.53         20.06         40.00           102.0013         27.03         -7.93         19.10         43.50           164.9071         29.32         -11.10         18.22         43.50           294.1136         24.42         -5.02         19.40         46.00           517.2476         26.19         -3.83         22.36         46.00	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB           *         52.3911         27.59         -7.53         20.06         40.00         -19.94           102.0013         27.03         -7.93         19.10         43.50         -24.40           164.9071         29.32         -11.10         18.22         43.50         -25.28           294.1136         24.42         -5.02         19.40         46.00         -26.60           517.2476         26.19         -3.83         22.36         46.00         -23.64



Test mode:	Mode 5	Polarization:	Vertical
Power supply:	Powered by DC 13V	Test site:	RE chamber 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	47.3253	30.29	-7.45	22.84	40.00	-17.16	QP
2		104.1701	27.46	-7.65	19.81	43.50	-23.69	QP
3		150.5377	28.97	-10.94	18.03	43.50	-25.47	QP
4		231.7178	25.69	-7.26	18.43	46.00	-27.57	QP
5	-	339.5887	25.64	-3.85	21.79	46.00	-24.21	QP
6		629.4772	26.31	0.39	26.70	46.00	-19.30	QP

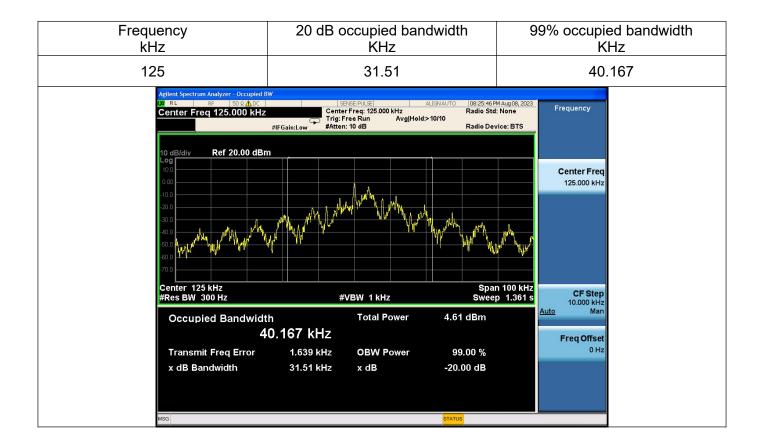
#### 6.4 Occupied bandwidth test

#### 6.4.1 Test Procedures

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation.
- d) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement
- e) Set detection mode to peak and trace mode to max hold.
- Determine the "-xx dB down amplitude" using [(reference value) xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.

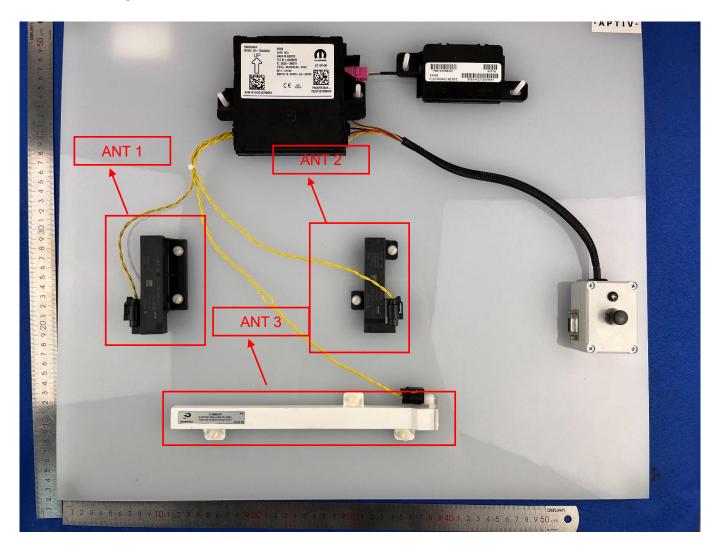
#### 6.4.2 Test Result

Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.





# TX antenna position and differentiates



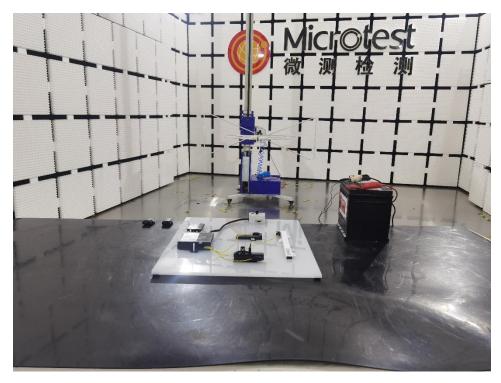


# Photographs of the test setup





Radiated emissions below 1 GHz



# Photographs of the EUT

See the Appendix - EUT Photos.



----End of Report----