



FCC RF Test Report

(DTS)

Applicant: PORTMAN ELECTRONICS (DONGGUAN) CO., LTD.

Address of Applicant: NO#10 , Luyi 2 Road, Keyuancheng, Tangxia Town

Equipment Under Test (EUT)

Product Name: CAR ALARM

Model No.: 18TWLORTI, 18TWPRLORTI

FCC ID: TBQT12-LR2WTI

Applicable Standards: FCC CFR Title 47 Part 15C (§15.247)

Date of Sample Receipt: 08 Mar., 2022

Date of Test: 09 Mar., to 11 May., 2022

Date of Report Issued: 12 May., 2022

Test Result: PASS

Tested by:


Test Engineer

Date:

12 May., 2022

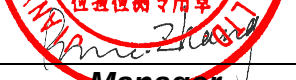
Reviewed by:


Project Engineer

Date:

12 May., 2022

Approved by:


Manager

Date:

12 May., 2022

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

2 Version

Version No.	Date	Description
00	24 Apr., 2022	Original
01	12 May., 2022	1. Updated test data on page 14.

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4 General Information

4.1 Client Information

Applicant:	PORTMAN ELECTRONICS (DONGGUAN) CO., LTD.
Address:	NO#10 , Luyi 2 Road, Keyuancheng, Tangxia Town
Manufacturer/Factory:	DONGGUAN PORTMAN ELECTRONIC SCIENCE AND TECHNOLOGY CO., LTD.
Address:	NO.10, LUYI 2 ROAD,TANGXIA TOWN, DONGGUAN CITY GUANGDONG PROVINCE

4.2 General Description of E.U.T.

Product Name:	CAR ALARM
Model No.:	18TWLORTI, 18TWPRLORTI
Operation Frequency:	916.3 MHz
Channel Numbers:	1
Modulation Technology:	LoRa
Antenna Type:	Helix Antenna
Antenna Gain:	-1.25 dBi (declare by applicant)
Power Supply:	DC 3.0V (CR2450 battery)
Remark:	Model No.: 18TWLORTI, 18TWPRLORTI were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

4.3 Test Mode and Test Environment

Test Mode:	
Tx mode	Keep the EUT in continuous transmitting with modulation
Operating Environment:	
Temperature:	15°C ~ 35°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1010 mbar

4.4 Description of Support Units

The EUT has been tested as an independent unit.

4.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Radiated Emission (30MHz ~ 1GHz) (3m SAC)	±4.45 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	±5.34 dB

Note: All the measurement uncertainty value were shown with a coverage $k=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

4.6 Additions to, Deviations, or Exclusions from the Method

No

4.7 Laboratory Facility

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

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

4.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

4.9 Test Instruments List

Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	01-19-2021	01-18-2024
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	02-17-2022	02-16-2023
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	06-20-2021	06-19-2022
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	02-17-2022	02-16-2023
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	06-18-2021	06-17-2022
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXG001-7	02-17-2022	02-16-2023
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXG001-3	02-17-2022	02-16-2023
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXG001-9	02-17-2022	02-16-2023
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	02-17-2022	02-16-2023
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	11-27-2021	11-26-2022
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	02-17-2022	02-16-2023
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	02-17-2022	02-16-2023
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	02-17-2022	02-16-2023
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Conducted Method:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	01-20-2022	01-20-2023
DC Power Supply	Keysight	E3642A	WXJ025-2	10-25-2021	10-24-2022

5 Measurement Setup and Procedure

5.1 Test Channel

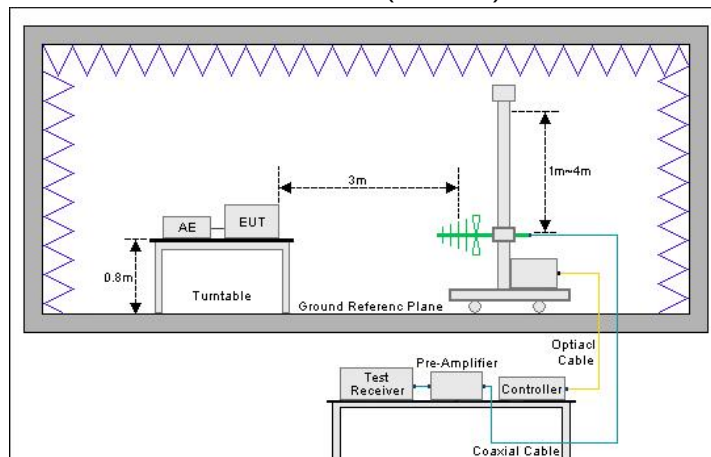
According to ANSI C63.10-2013 chapter 5.6.1 Table 4 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

Test channel:	916.3MHz
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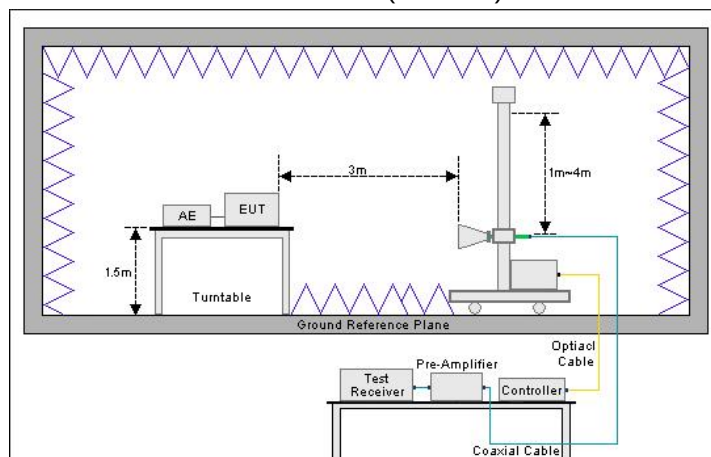
5.2 Test Setup

1) Radiated emission measurement:

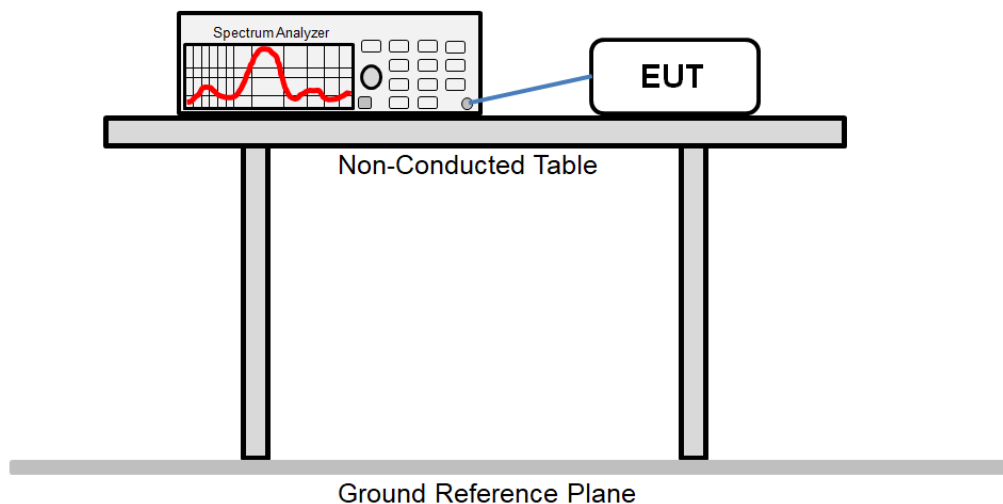
Below 1GHz (3m SAC)



Above 1GHz (3m SAC)



2) Conducted test method



5.3 Test Procedure

Test method	Test step
Radiated emission	For below 1GHz: - The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. - EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. - Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. For above 1GHz: - The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. - EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. - Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
Conducted test method	- The antenna port of EUT was connected to the test port of the test system through an RF cable. - The EUT is keeping in continuous transmission mode and tested in all modulation modes. - Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.

6 Test Results

6.1 Summary

6.1.1 Clause and Data Summary

Test items	Standard clause	Test data	Result
Antenna Requirement	15.203 15.247 (b)(4)	See Section 6.2	Pass
AC Power Line Conducted Emission	15.207	See Section 6.3	N/A
Conducted Output Power	15.247 (b)(3)	See Section 6.4	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	See Section 6.5	Pass
Power Spectral Density	15.247 (e)	See Section 6.6	Pass
Spurious Emission	15.205 15.209 15.247 (d)	See Section 6.7	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: Not Applicable. DUT power by DC 3.0V (CR2450 battery). 3. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).			
Test Method:	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02		

6.1.2 Test Limit

Test items	Limit																														
Conducted Output Power	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.																														
6dB Emission Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.																														
99% Occupied Bandwidth	N/A																														
Power Spectral Density	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.																														
Spurious Emission	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)): <table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Limit (dBµV/m)</th><th rowspan="2">Detector</th></tr><tr><th>@ 3m</th><th>@ 10m</th></tr><tr><td>30 – 88</td><td>40.0</td><td>30.0</td><td>Quasi-peak</td></tr><tr><td>88 – 216</td><td>43.5</td><td>33.5</td><td>Quasi-peak</td></tr><tr><td>216 – 960</td><td>46.0</td><td>36.0</td><td>Quasi-peak</td></tr><tr><td>960 – 1000</td><td>54.0</td><td>44.0</td><td>Quasi-peak</td></tr></table> Note: The more stringent limit applies at transition frequencies. <table><tr><th rowspan="2">Frequency</th><th colspan="2">Limit (dBµV/m) @ 3m</th></tr><tr><th>Average</th><th>Peake</th></tr><tr><td>Above 1 GHz</td><td>54.0</td><td>74.0</td></tr></table> Note: The measurement bandwidth shall be 1 MHz or greater.	Frequency (MHz)	Limit (dBµV/m)		Detector	@ 3m	@ 10m	30 – 88	40.0	30.0	Quasi-peak	88 – 216	43.5	33.5	Quasi-peak	216 – 960	46.0	36.0	Quasi-peak	960 – 1000	54.0	44.0	Quasi-peak	Frequency	Limit (dBµV/m) @ 3m		Average	Peake	Above 1 GHz	54.0	74.0
Frequency (MHz)	Limit (dBµV/m)		Detector																												
	@ 3m	@ 10m																													
30 – 88	40.0	30.0	Quasi-peak																												
88 – 216	43.5	33.5	Quasi-peak																												
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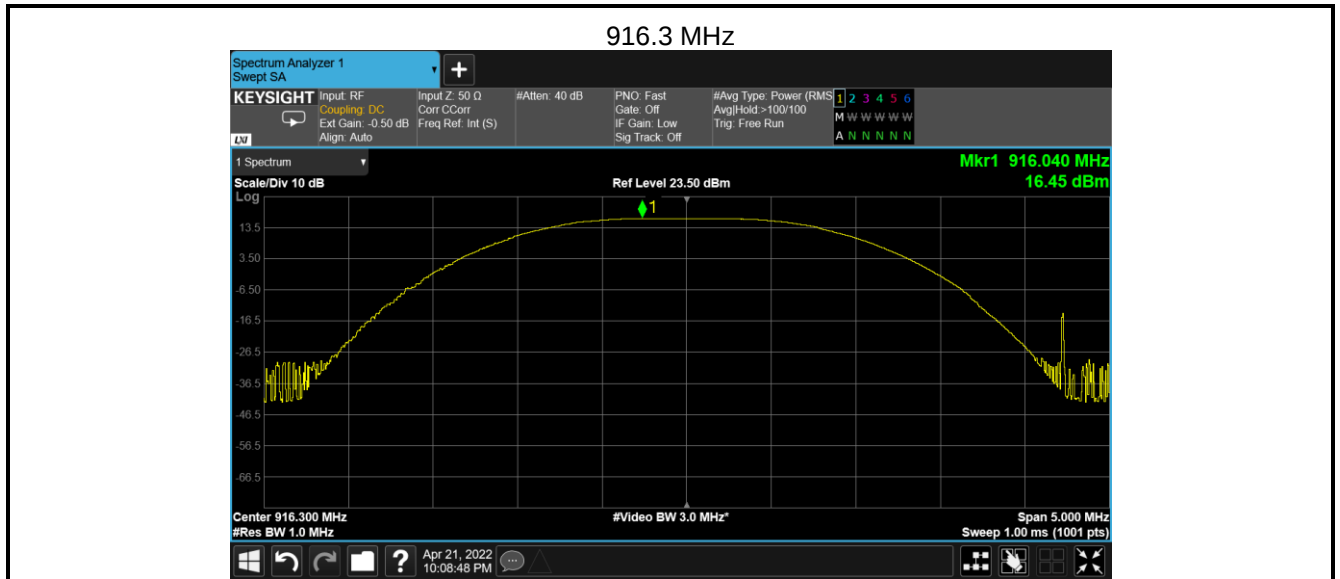
6.2 Antenna requirement

Standard requirement:	FCC Part 15 C Section 15.203 /247(b)(4)
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. 15.247(b) (4) requirement: (4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
E.U.T Antenna:	
The EUT antenna is an Helix antenna which cannot replace by end-user, the best case gain of the antenna is -1.25 dBi. See product internal photos for details.	

6.3 Conducted Output Power

Test Channel	Maximum Output Power (dBm)	Limit(dBm)	Result
916.3 MHz	16.45	30.00	Pass

Test plot as follows:



6.4 Emission Bandwidth

Test Channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
916.3 MHz	0.7533	>500	Pass
Test Channel	99% Occupy Bandwidth (MHz)	Limit (kHz)	Result
916.3 MHz	0.7319	N/A	N/A

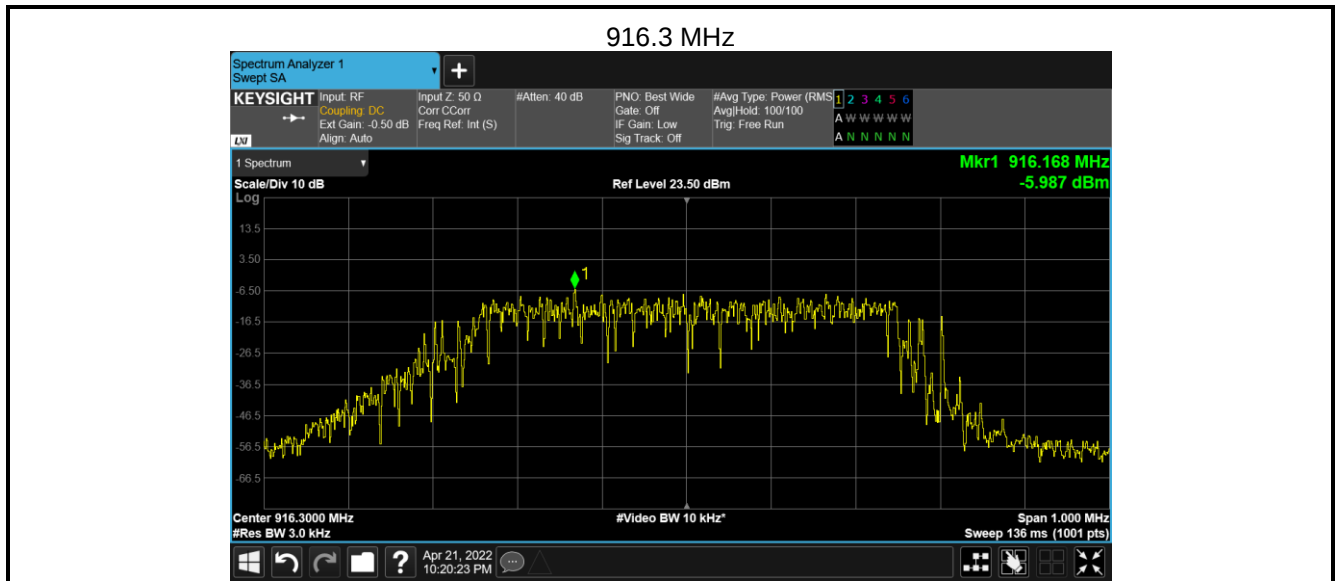
Test plot as follows:



6.5 Power Spectral Density

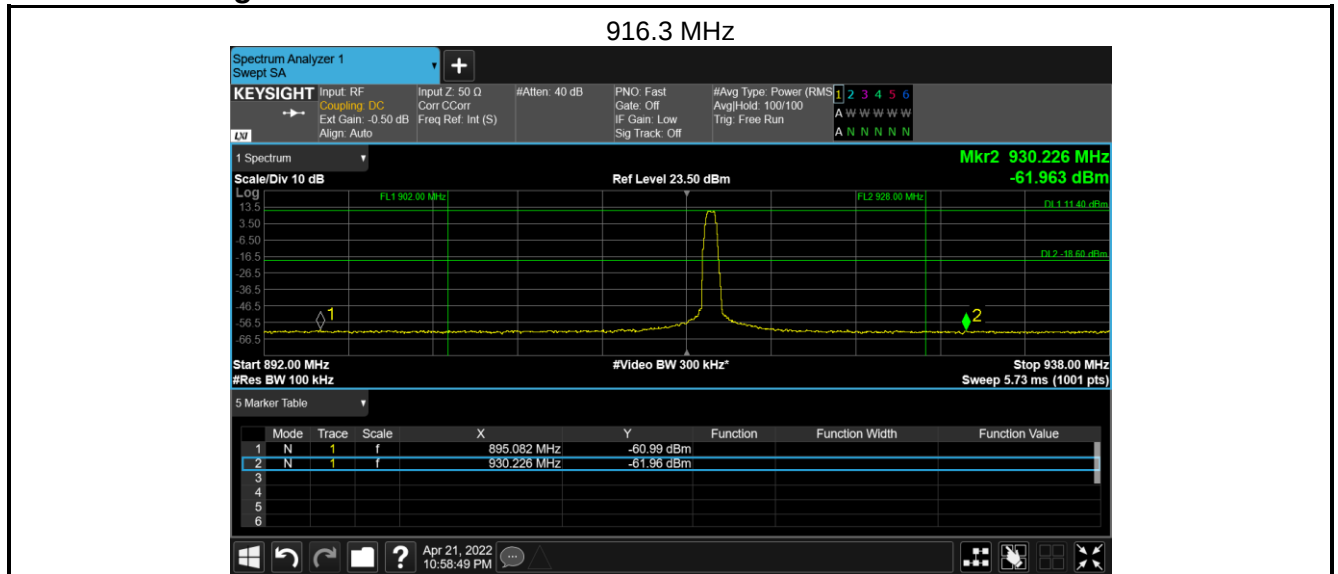
Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest channel	-5.987	8.00	Pass

Test plot as follows:

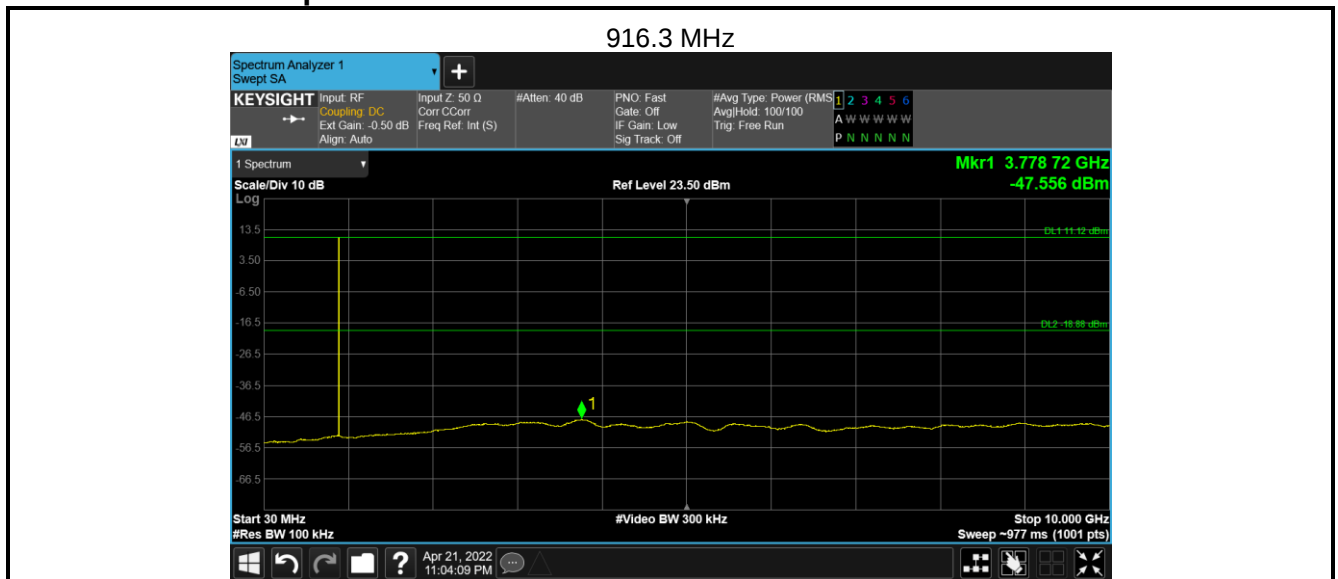


6.6 Spurious Emission

6.6.1 Band-edge Emission

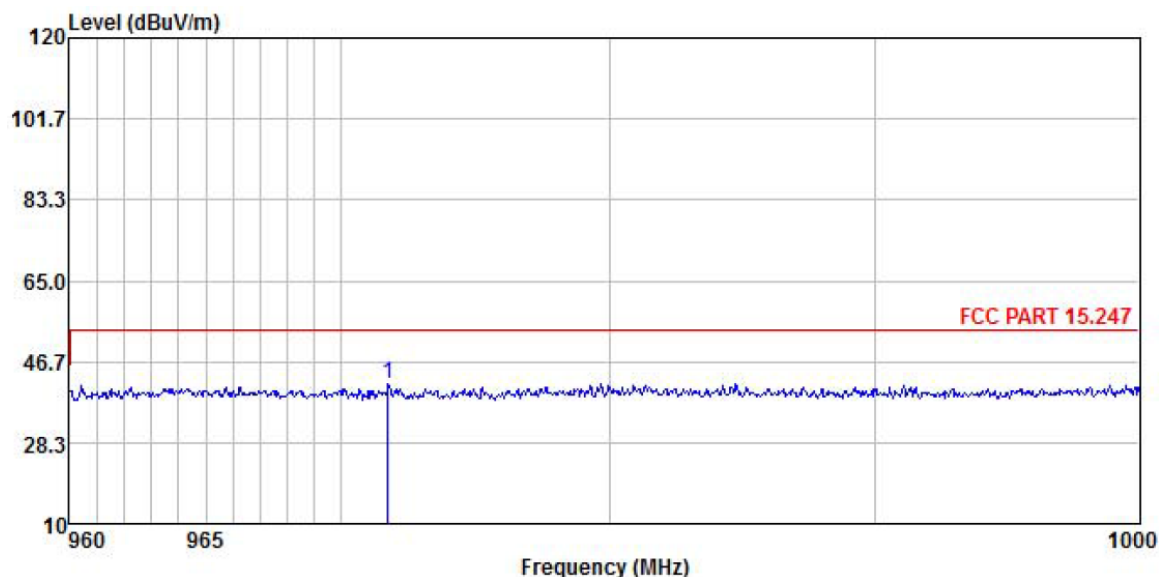


6.6.2 Conducted Spurious Emission



6.6.3 Emissions in Restricted Frequency Bands

Product Name:	CAR ALARM	Product Model:	18TWLORTI
Test By:	Mike	Test mode:	Tx mode
Test Channel:	960 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	DC 3.0V		

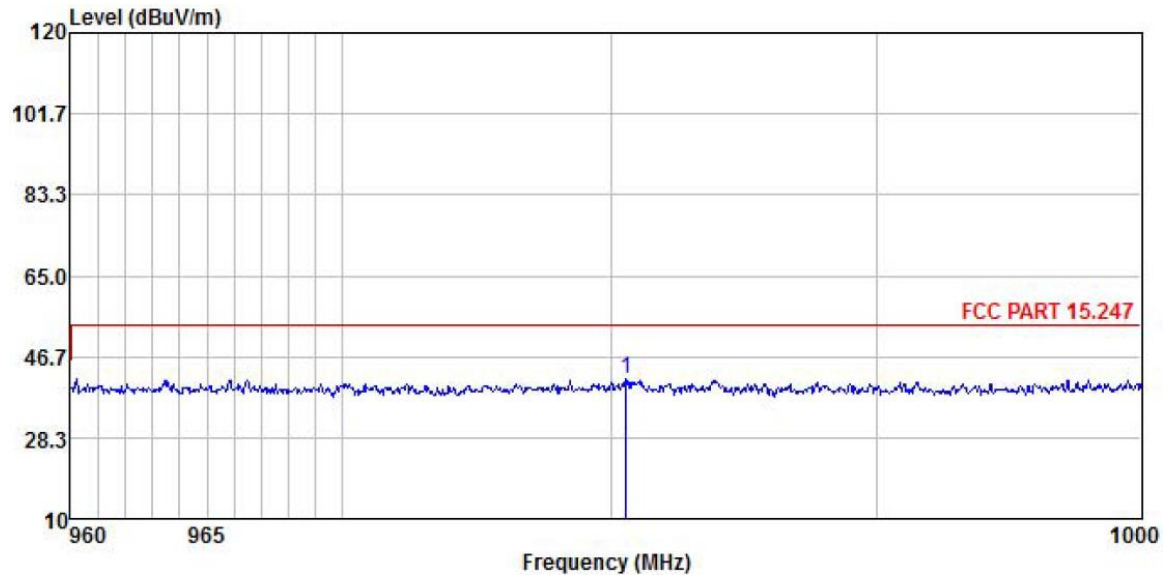


	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 971.750	14.98	22.94	3.57	0.00	41.49	54.00	-12.51 QP

Remark:

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

Product Name:	CAR ALARM	Product Model:	18TWLORTI
Test By:	Mike	Test mode:	Tx mode
Test Channel:	960 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	DC 3.0V		

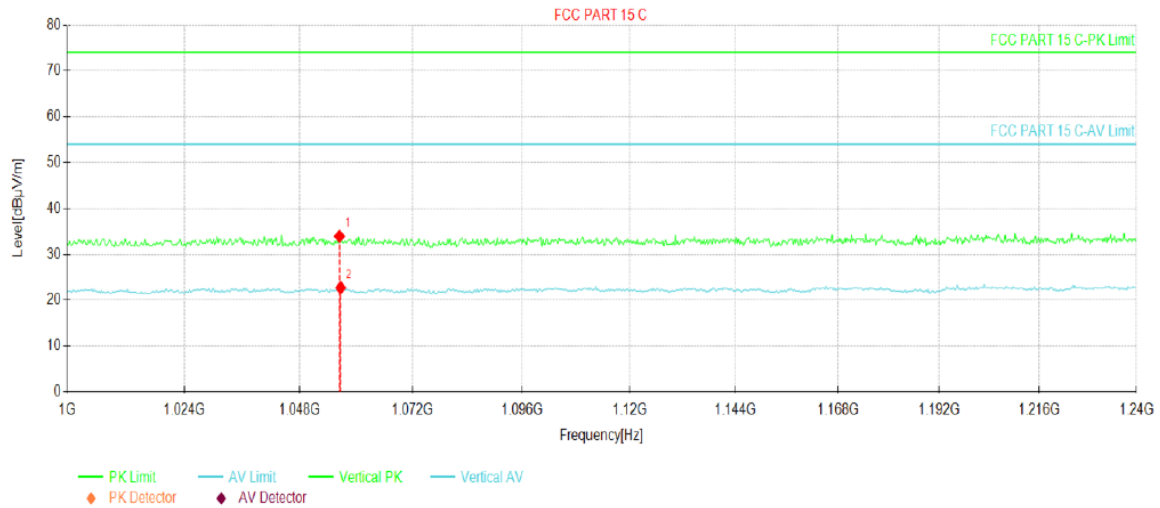


	Read	Antenna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 980.556	14.89	22.98	3.60	0.00	41.47	54.00	-12.53	QP

Remark:

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

Product Name:	CAR ALARM	Product Model:	18TWLORTI
Test By:	Mike	Test mode:	Tx mode
Test Channel:	1000 MHz ~ 1240 MHz	Polarization:	Vertical
Test Voltage:	DC 3.0V		

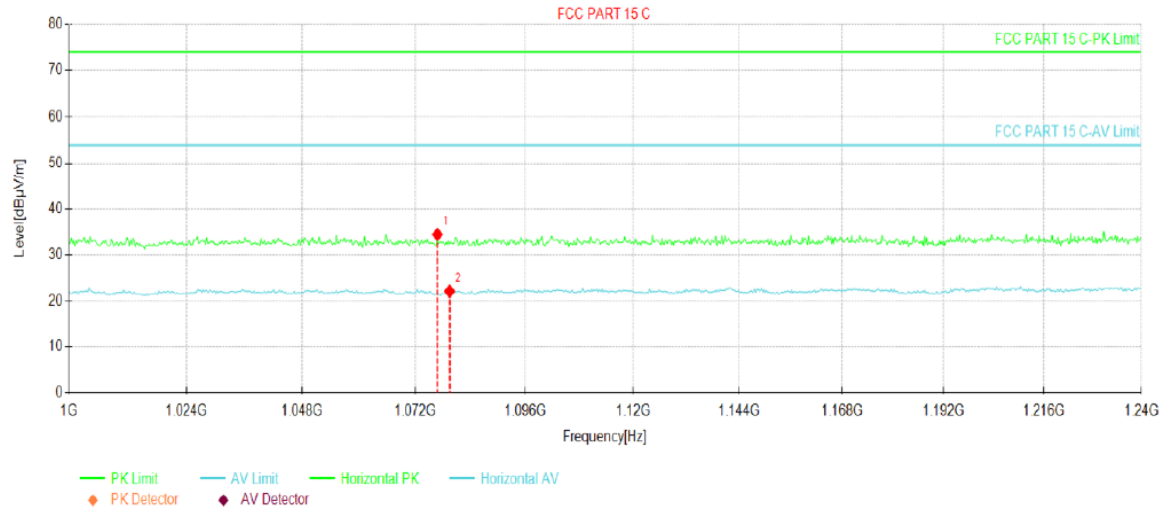


NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	1056.40	57.96	33.92	-24.04	74.00	40.08	PK	Vertical
2	1056.64	46.75	22.71	-24.04	54.00	31.29	AV	Vertical

Remark:

1. Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	CAR ALARM	Product Model:	18TWLORTI
Test By:	Mike	Test mode:	Tx mode
Test Channel:	1000 MHz ~ 1240 MHz	Polarization:	Horizontal
Test Voltage:	DC 3.0V		



NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	1076.80	58.35	34.37	-23.98	74.00	39.63	PK	Horizontal
2	1079.44	46.21	22.23	-23.98	54.00	31.77	AV	Horizontal

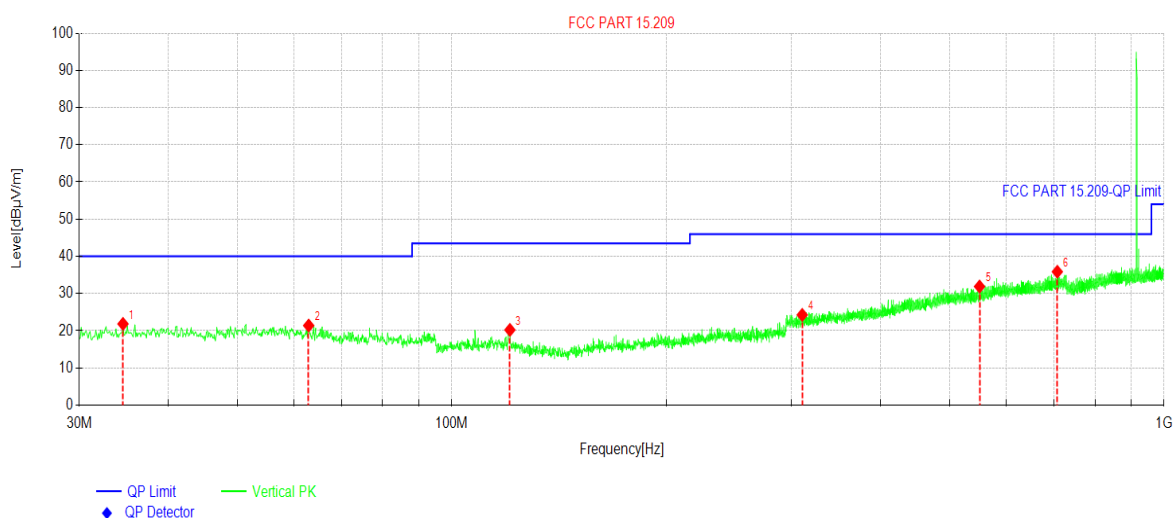
Remark:

1. Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

6.6.4 Emissions in Non-restricted Frequency Bands

Below 1GHz:

Product Name:	CAR ALARM	Product Model:	18TWLORTI
Test By:	Mike	Test mode:	Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	DC 3.0V		



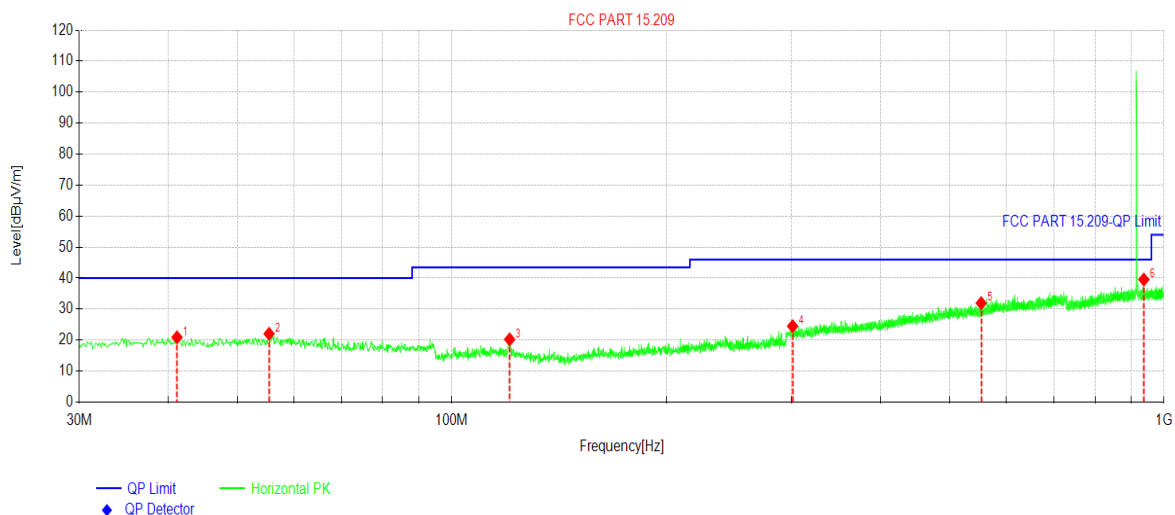
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	34.56	36.95	21.84	-15.11	40.00	18.16	PK	Vertical
2	62.98	36.77	21.39	-15.38	40.00	18.61	PK	Vertical
3	120.70	36.34	20.22	-16.12	43.50	23.28	PK	Vertical
4	310.55	36.68	24.26	-12.42	46.00	21.74	PK	Vertical
5	550.94	38.75	31.89	-6.86	46.00	14.11	PK	Vertical
6	708.39	40.05	35.86	-4.19	46.00	10.14	PK	Vertical

Remark:

1. Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	CAR ALARM	Product Model:	18TWLORTI
Test By:	Mike	Test mode:	Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	DC 3.0V		



Suspected Data List

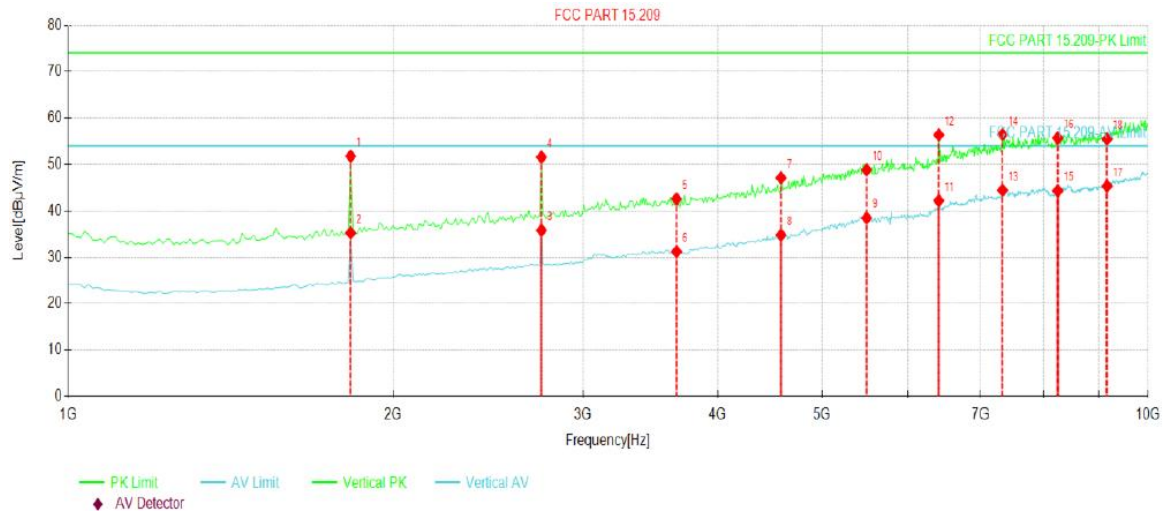
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	41.16	35.51	20.92	-14.59	40.00	19.08	PK	Horizontal
2	55.42	36.69	22.04	-14.65	40.00	17.96	PK	Horizontal
3	120.61	36.36	20.25	-16.11	43.50	23.25	PK	Horizontal
4	301.05	37.18	24.50	-12.68	46.00	21.50	PK	Horizontal
5	553.85	38.70	31.94	-6.76	46.00	14.06	PK	Horizontal
6	936.94	40.76	39.55	-1.21	46.00	6.45	PK	Horizontal

Remark:

1. Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

Above 1GHz:

Product Name:	CAR ALARM	Product Model:	18TWLORTI
Test By:	Mike	Test mode:	Tx mode
Test Frequency:	1 GHz ~ 10 GHz	Polarization:	Vertical
Test Voltage:	DC 3.0V		

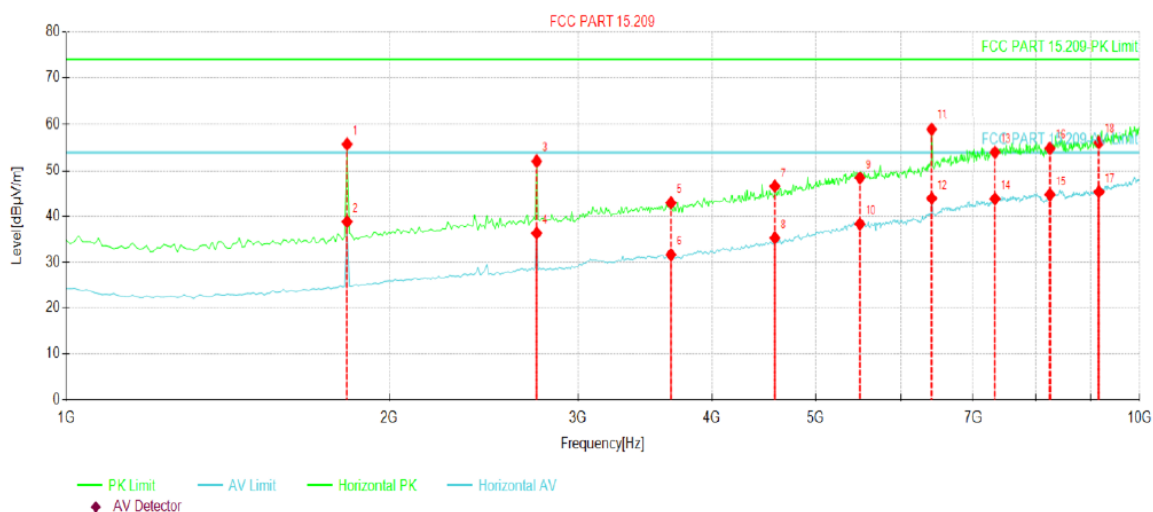


NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	1828.00	73.03	51.77	-21.26	74.00	22.23	PK	Vertical
2	1828.00	56.51	35.25	-21.26	54.00	18.75	AV	Vertical
3	2746.00	53.38	35.81	-17.57	54.00	18.19	AV	Vertical
4	2746.00	69.15	51.58	-17.57	74.00	22.42	PK	Vertical
5	3664.00	57.20	42.57	-14.63	74.00	31.43	PK	Vertical
6	3664.00	45.83	31.20	-14.63	54.00	22.80	AV	Vertical
7	4580.00	57.52	47.08	-10.44	74.00	26.92	PK	Vertical
8	4580.00	45.22	34.78	-10.44	54.00	19.22	AV	Vertical
9	5496.00	44.54	38.46	-6.08	54.00	15.54	AV	Vertical
10	5496.00	54.90	48.82	-6.08	74.00	25.18	PK	Vertical
11	6412.00	44.92	42.20	-2.72	54.00	11.80	AV	Vertical
12	6412.00	59.07	56.35	-2.72	74.00	17.65	PK	Vertical
13	7328.00	44.34	44.44	0.10	54.00	9.56	AV	Vertical
14	7328.00	56.34	56.44	0.10	74.00	17.56	PK	Vertical
15	8244.00	43.11	44.31	1.20	54.00	9.69	AV	Vertical
16	8244.00	54.48	55.68	1.20	74.00	18.32	PK	Vertical
17	9160.00	43.05	45.31	2.26	54.00	8.69	AV	Vertical
18	9160.00	53.23	55.49	2.26	74.00	18.51	PK	Vertical

Remark:

1. Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	CAR ALARM	Product Model:	18TWLORTI
Test By:	Mike	Test mode:	Tx mode
Test Frequency:	1 GHz ~ 10 GHz	Polarization:	Horizontal
Test Voltage:	DC 3.0V		



NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	1828.00	77.02	55.76	-21.26	74.00	18.24	PK	Horizontal
2	1828.00	60.05	38.79	-21.26	54.00	15.21	AV	Horizontal
3	2746.00	69.68	52.11	-17.57	74.00	21.89	PK	Horizontal
4	2746.00	53.85	36.28	-17.57	54.00	17.72	AV	Horizontal
5	3664.00	57.50	42.87	-14.63	74.00	31.13	PK	Horizontal
6	3664.00	46.24	31.61	-14.63	54.00	22.39	AV	Horizontal
7	4580.00	56.96	46.52	-10.44	74.00	27.48	PK	Horizontal
8	4580.00	45.69	35.25	-10.44	54.00	18.75	AV	Horizontal
9	5496.00	54.45	48.37	-6.08	74.00	25.63	PK	Horizontal
10	5496.00	44.37	38.29	-6.08	54.00	15.71	AV	Horizontal
11	6412.00	61.68	58.96	-2.72	74.00	15.04	PK	Horizontal
12	6412.00	46.59	43.87	-2.72	54.00	10.13	AV	Horizontal
13	7328.00	53.93	54.03	0.10	74.00	19.97	PK	Horizontal
14	7328.00	43.66	43.76	0.10	54.00	10.24	AV	Horizontal
15	8244.00	43.47	44.67	1.20	54.00	9.33	AV	Horizontal
16	8244.00	53.67	54.87	1.20	74.00	19.13	PK	Horizontal
17	9160.00	43.05	45.31	2.26	54.00	8.69	AV	Horizontal
18	9160.00	53.84	56.10	2.26	74.00	17.90	PK	Horizontal

Remark:

1. Level = Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).

-----End of report-----