

RF Test Report

(DTS)

Report No.: JYTSZ-R12-2600205

Applicant: Automotive Data Solutions Inc.

Address of Applicant: 8400 Bougainville Montreal Quebec Canada H4P 2G1

Equipment Under Test (EUT)

Product Name: CAR ALARM

Model No.: A2LRB

Trade Mark: N/A

FCC ID: 2AEPJ-A2LRB

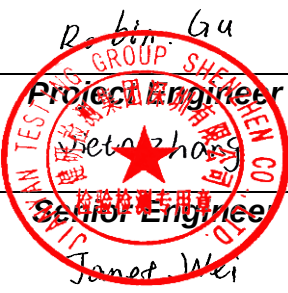
Applicable Standards: FCC CFR Title 47 Part 15C (§15.247)

Date of Sample Receipt: 13 Apr., 2026

Date of Test: 14 Apr., to 28 Apr., 2026

Date of Report Issued: 22 May, 2026

Test Result: PASS

Tested by:		Date:	22 May, 2026
Reviewed by:		Date:	22 May, 2026
Approved by:	Manager	Date:	22 May, 2026

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.

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1 Version

Version No.	Date	Description
00	28 Apr., 2026	Original
01	22 May, 2026	Update page 27/28

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3 General Information

3.1 Client Information

Applicant:	Automotive Data Solutions Inc.
Address:	8400 Bougainville Montreal Quebec Canada H4P 2G1
Manufacturer:	DONGGUAN PORTMAN ELECTRONIC SCIENCE AND TECHNOLOGY CO., LTD.
Address:	NO.10, LUYI 2 ROAD, TANGXIA TOWN, DONGGUAN CITY GUANGDONG PROVINCE
Factory:	DONGGUAN PORTMAN ELECTRONIC SCIENCE AND TECHNOLOGY CO., LTD.
Address:	NO.10, LUYI 2 ROAD, TANGXIA TOWN, DONGGUAN CITY GUANGDONG PROVINCE

3.2 General Description of E.U.T.

Product Name:	CAR ALARM
Model No.:	A2LRB
Operation Frequency:	915 MHz
Channel Numbers:	1
Modulation Technology:	LoRa
Antenna Type:	Internal Antenna
Antenna Gain:	2.10 dBi (declare by applicant)
Power Supply:	DC 5V
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 Disclaimer

Disclaimer:
For the information or data provided by the client in this report, the relevant results or conclusions of this report are only made for these data or information. The testing laboratory is not responsible for the authenticity and accuracy of these data or information.

3.4 Test Mode and Test Environment

Test Mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation
<i>Remark: The report only reflects the test data of worst mode.</i>	
Operating Environment:	
Temperature:	15°C ~ 35°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 5.00 Vdc
Test Engineer:	Robin Gu (Conducted measurement) Reiy Ren (Radiated measurement)

3.5 Description of Test Auxiliary Equipment

The EUT has been tested as an independent unit.

3.6 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Occupied Channel Bandwidth	0.114 MHz
RF output power, conducted	0.71 dB
Power Spectral Density, conducted	0.70 dB
Unwanted Emissions, conducted	2.76 dB
Radiated Emission (9kHz ~ 30MHz) (3m SAC)	2.1 dB
Radiated Emission (30MHz ~ 200MHz) (3m SAC)	4.7 dB
Radiated Emission (200MHz ~ 1000MHz) (3m SAC)	5.8 dB
Radiated Emission (30MHz ~ 1GHz) (3m FAR)	4.10 dB
Radiated Emission (1GHz ~ 18GHz) (3m FAR)	5.28 dB
Radiated Emission (18GHz ~ 40GHz) (3m FAR)	5.18 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.

3.7 Additions to, Deviations, or Exclusions from the Method

No

3.8 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
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3.9 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>

3.10 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	04-14-2021	04-13-2026
				12-09-2025	12-08-2030
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	12-07-2025	12-06-2026
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	08-09-2025	08-08-2026
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	12-07-2025	12-06-2026
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	12-07-2025	12-06-2026
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	12-04-2025	12-03-2026
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	12-04-2025	12-03-2026
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	12-05-2025	12-04-2026
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	12-04-2025	12-03-2026
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-04-2025	12-03-2026
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	08-08-2025	08-07-2026
Coaxial Cable (30MHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-14-2026	01-13-2027
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	01-14-2026	01-13-2027
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Radiated Emission(3m FAR):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m FAR	YUNYI	9m*6m*6m	WXJ097	06-15-2023	06-14-2028
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	08-09-2025	08-08-2026
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-01-2024	06-30-2027
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ097-3	05-23-2025	05-22-2026
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	12-07-2025	12-06-2026
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	12-07-2025	12-06-2026
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	12-07-2025	12-06-2026
Pre-amplifier (30MHz ~ 1GHz)	YUNYI	PAM-310N	WXJ097-5	04-21-2025	04-20-2026
				03-30-2026	03-29-2027
Pre-amplifier (1GHz ~ 18GHz)	YUNYI	PAM-118N	WXJ097-6	04-21-2025	04-20-2026
				03-30-2026	03-29-2027
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	12-05-2025	12-04-2026
EMI Test Receiver	Rohde & Schwarz	ESCI3	WXJ003	12-04-2025	12-03-2026
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-04-2025	12-03-2026
Spectrum Analyzer	KEYSIGHT	N9020B	WXJ081-1	05-08-2025	05-07-2026
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-13M	WXG097-1	07-28-2025	07-27-2026
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG097-2	07-28-2025	07-27-2026
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG097-3	07-28-2025	07-27-2026
High Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Low Band Reject Filter Group	Tonscend	JS0806-F	WXJ097-4	N/A	
Test Software	Tonscend	TS+	Version: 5.0.0		

Conducted Method:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9020B	WXJ081-1	06-12-2025	06-11-2026
DC Power Supply	Keysight	E3642A	WXJ025-2	08-08-2025	08-07-2026

4 Measurement Setup and Procedure

4.1 Test Channel

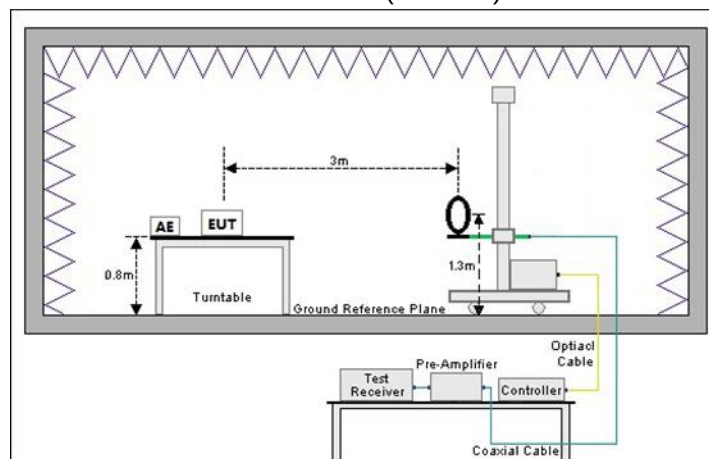
According to ANSI C63.10-2020 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

Middle channel	
Channel No.	Frequency (MHz)
1	915

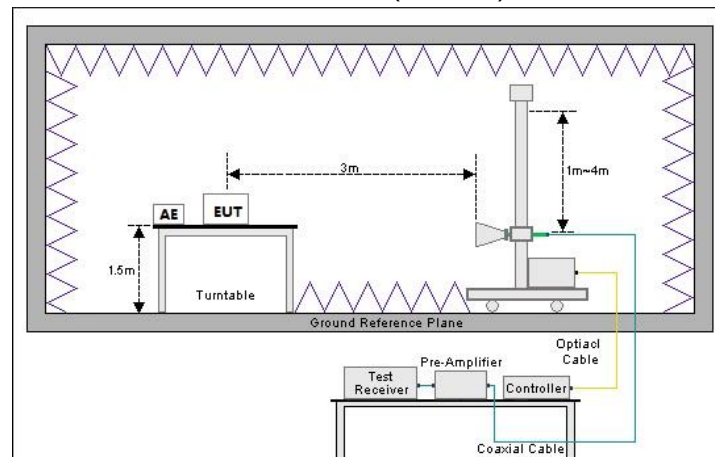
4.2 Test Setup

1) Radiated emission measurement:

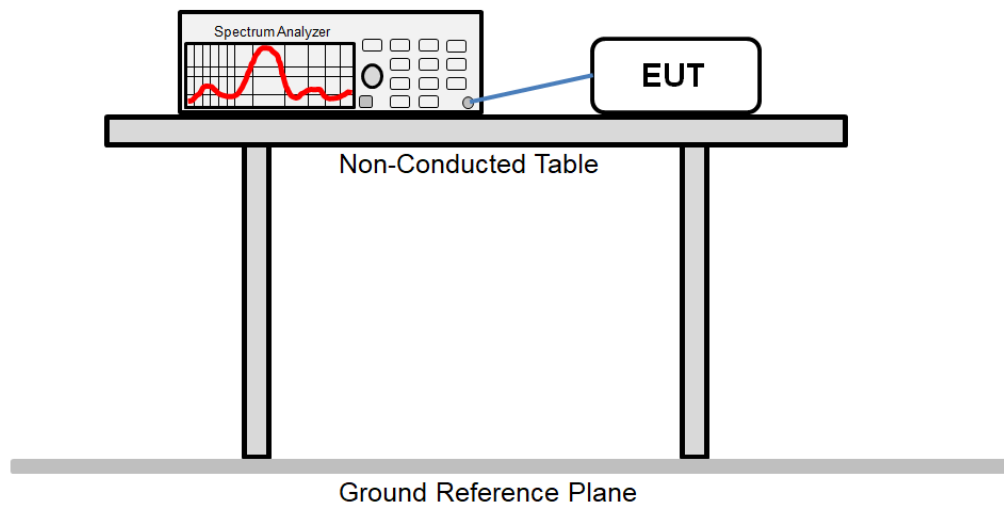
Below 1GHz (3m SAC)



Above 1GHz (3m FAR)



2) Conducted test method



4.3 Test Procedure

Test method	Test step
Radiated emission	For below 30MHz: 1. The EUT was placed on the table top 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. 2. 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. 3. 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 below 1GHz: 4. 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. 5. 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. 6. 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: 1. 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. 2. 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. 3. 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	1. The antenna port of EUT was connected to the test port of the test system through an RF cable. 2. The EUT is keeping in continuous transmission mode and tested in all modulation modes. 3. 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.

5 Test Results

5.1 Summary

5.1.1 Clause and Data Summary

Test items	Standard clause	Test data	Result
Antenna Requirement	15.203 15.247 (b)(4)	See Section 5.2	Pass
AC Power Line Conducted Emission	15.207	N/A	N/A
Conducted Output Power	15.247 (b)(3)	See Section 5.3	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	See Section 5.4	Pass
Power Spectral Density	15.247 (e)	See Section 5.5	Pass
Spurious Emission	15.205 15.209 15.247 (d)	See Section 5.6	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: Not Applicable. 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 C63.10-2020 KDB 558074 D01 15.247 Meas Guidance v05r02		

5.1.2 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)):

§15.205(a) Restricted Frequency Bands List

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

9KHz-30MHz

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

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

Above 30MHz

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
Note: The more stringent limit applies at transition frequencies.			
Frequency	Limit (dBµV/m) @ 3m		
	Average	Peake	
Above 1 GHz	54.0	74.0	
Note: The measurement bandwidth shall be 1 MHz or greater.			

Emissions in Restricted Frequency Bands

Emissions in Non-restricted Frequency Bands

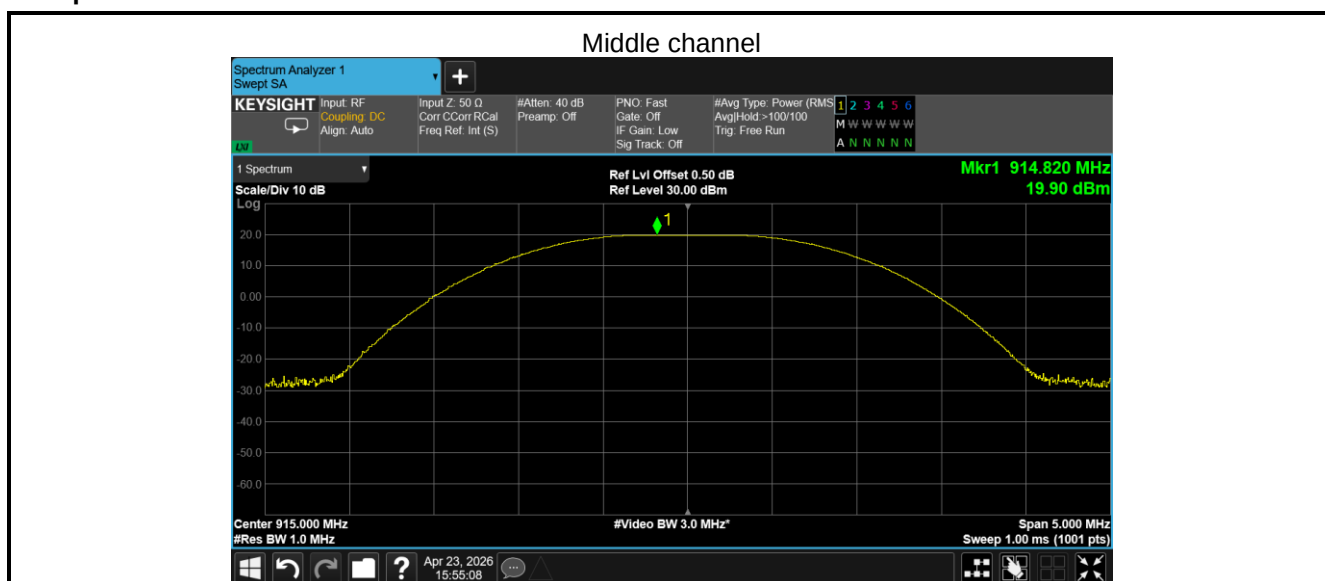
5.2 Antenna requirement

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 Internal antenna which cannot replace by end-user, the best case gain of the antenna is 2.10 dBi. See product internal photos for details.	

5.3 Conducted Output Power

Test Channel	Maximum Output Power (dBm)	Limit(dBm)	Result
Middle channel	19.90	30.00	Pass

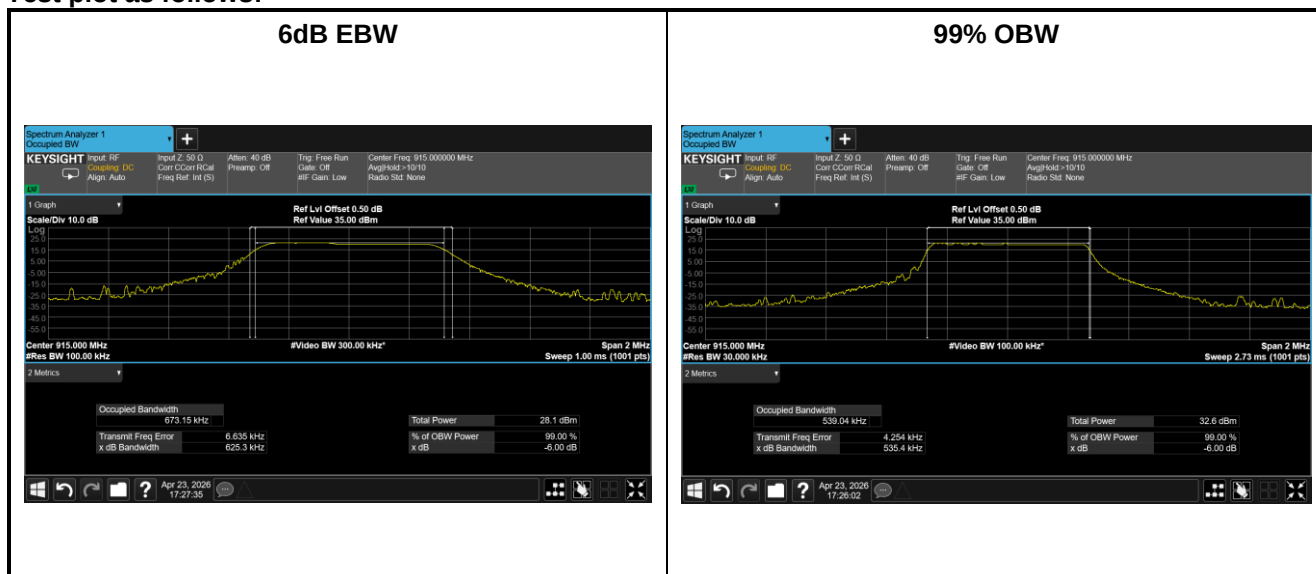
Test plot as follows:



5.4 Emission Bandwidth

Test Channel	6dB Emission Bandwidth (KHz)	Limit (kHz)	Result
Middle channel	625.3	>500	Pass
Test Channel	99% Occupy Bandwidth (KHz)	Limit (kHz)	Result
Middle channel	539.04	N/A	N/A

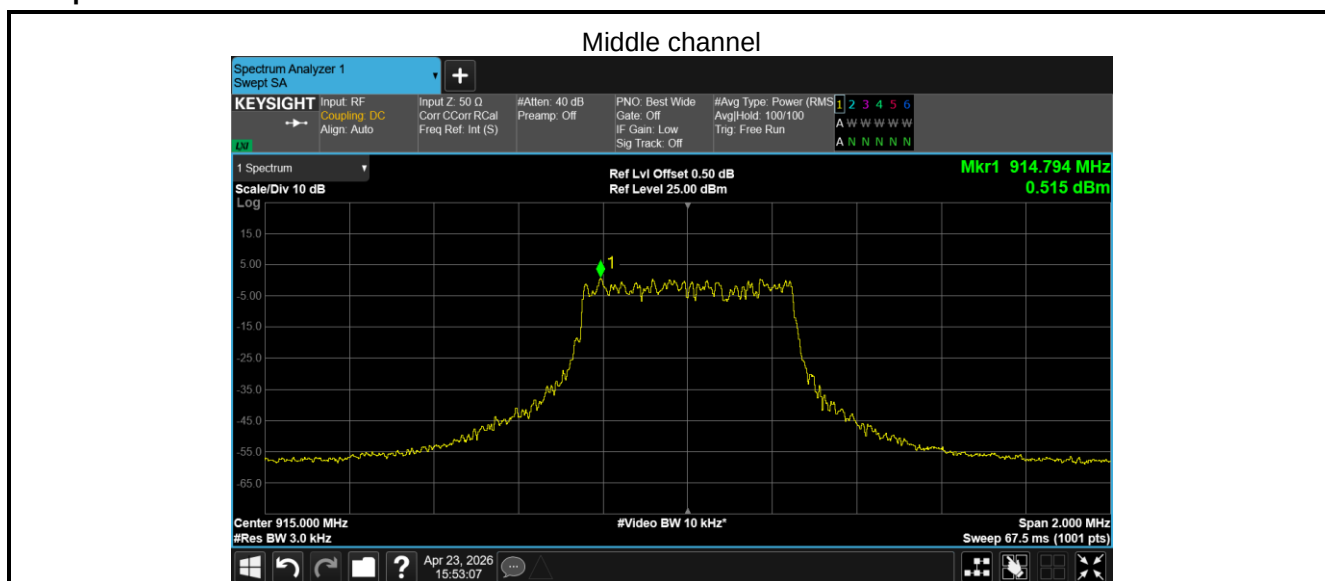
Test plot as follows:



5.5 Power Spectral Density

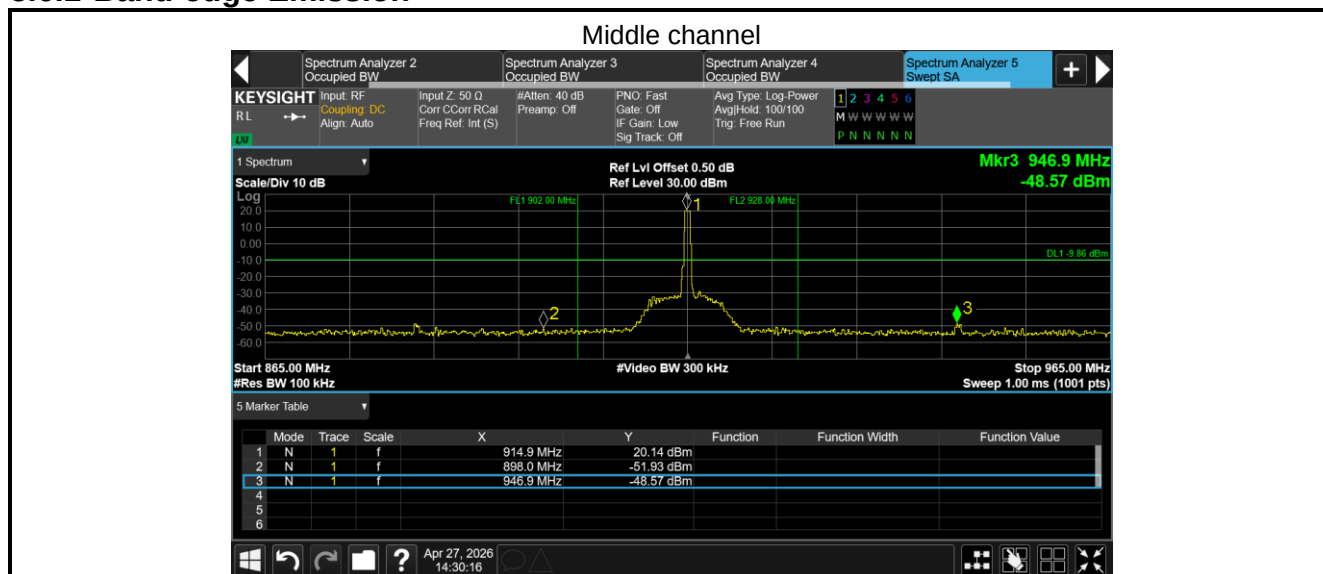
Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Middle channel	0.515	8.00	Pass

Test plot as follows:

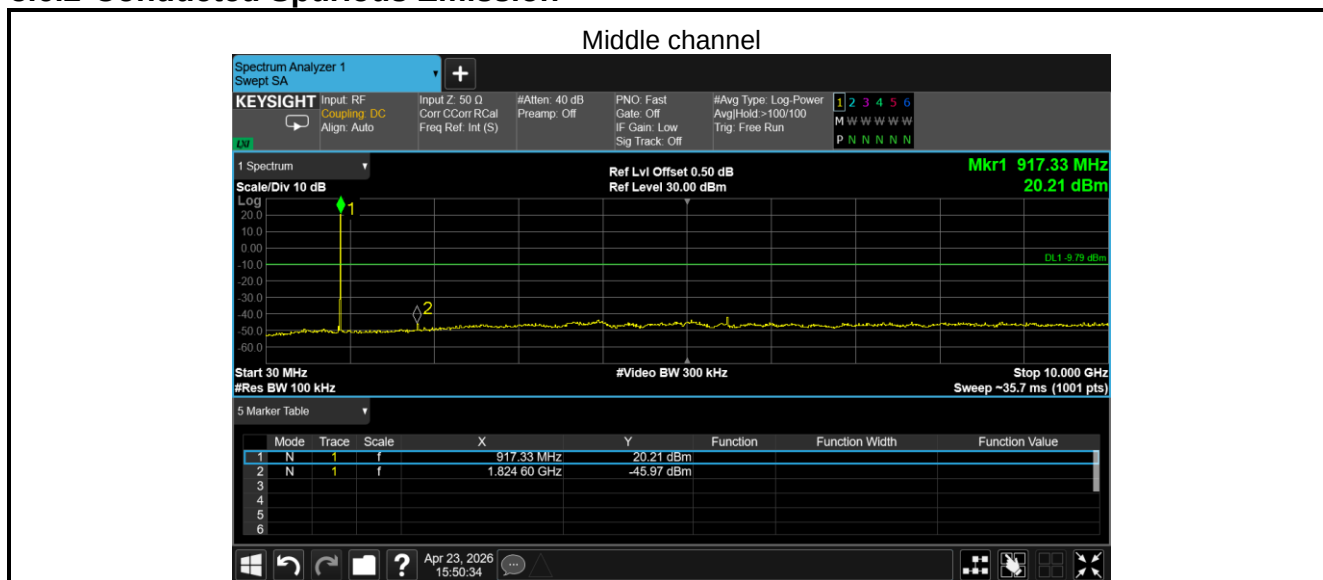


5.6 Spurious Emission

5.6.1 Band-edge Emission

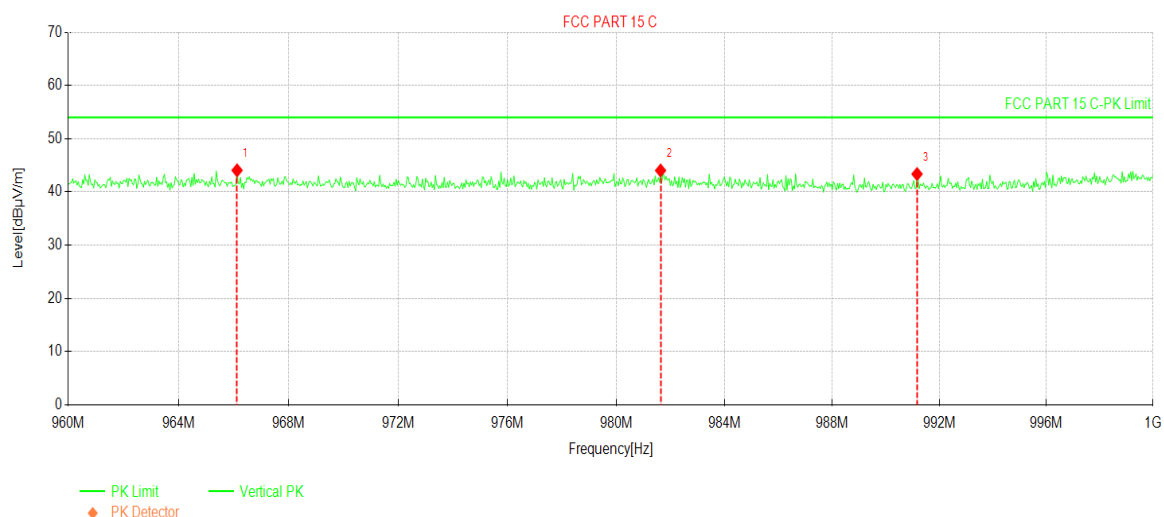


5.6.2 Conducted Spurious Emission



5.6.3 Emissions in Restricted Frequency Bands

Product Name:	CAR ALARM	Product Model:	A2LRB
Test By:	Robin Gu	Test mode:	Tx mode
Test Channel:	Middle channel	Polarization:	Vertical
Test Voltage:	DC 5V		



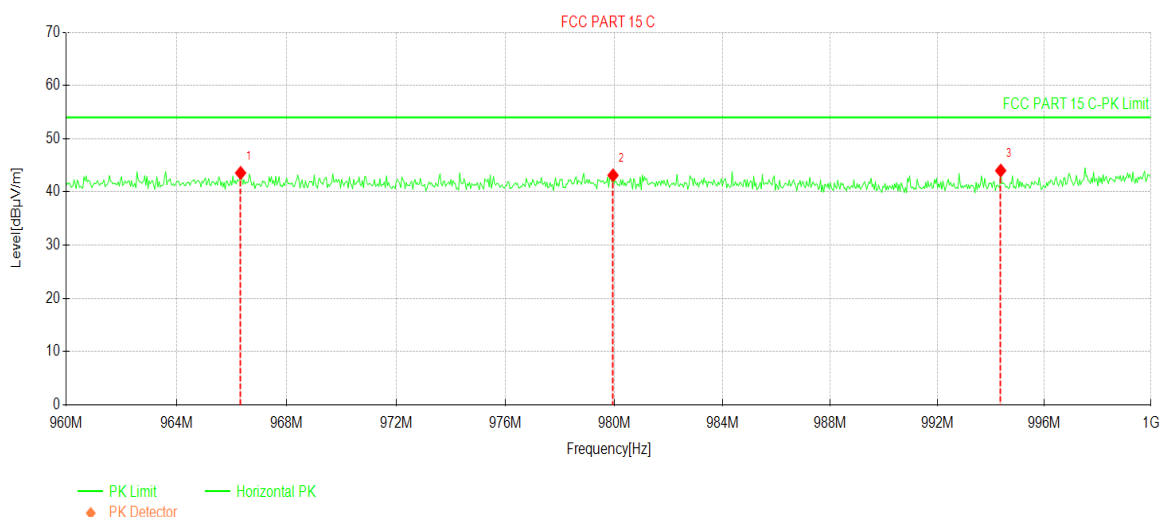
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	966.120	16.32	27.74	44.06	54.00	9.94	PK	Vertical
2	981.640	16.39	27.64	44.03	54.00	9.97	PK	Vertical
3	991.160	15.83	27.53	43.36	54.00	10.64	PK	Vertical

Remark:

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

Product Name:	CAR ALARM	Product Model:	A2LRB
Test By:	Robin Gu	Test mode:	Tx mode
Test Channel:	Middle channel	Polarization:	Horizontal
Test Voltage:	DC 5V		



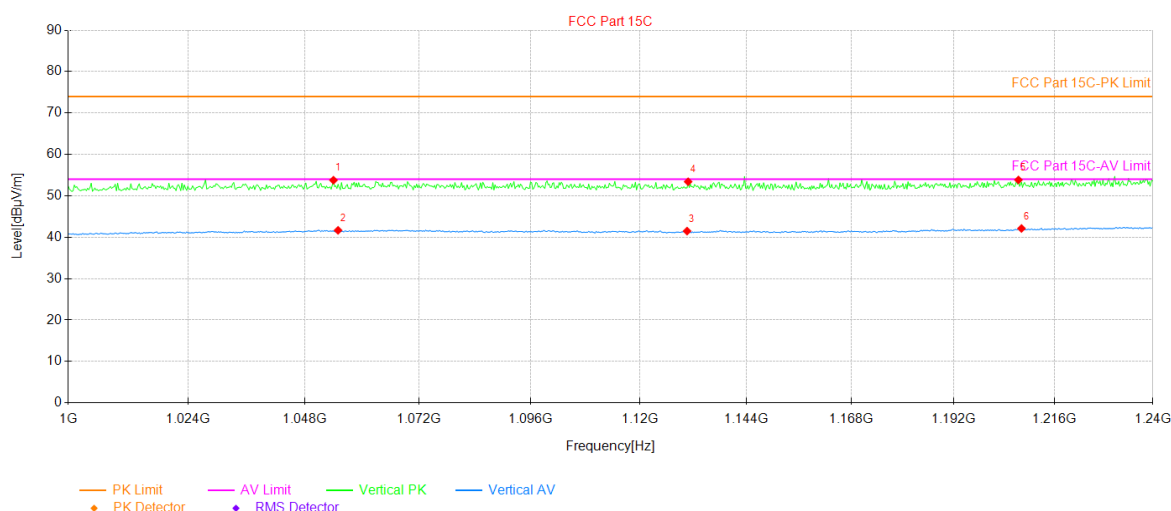
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	966.320	15.83	27.74	43.57	54.00	10.43	PK	Horizontal
2	979.960	15.55	27.57	43.12	54.00	10.88	PK	Horizontal
3	994.360	16.29	27.72	44.01	54.00	9.99	PK	Horizontal

Remark:

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

Product Name:	CAR ALARM	Product Model:	A2LRB
Test By:	Reiy Ren	Test mode:	Tx mode
Test Channel:	Middle channel	Polarization:	Vertical
Test Voltage:	DC 5V		



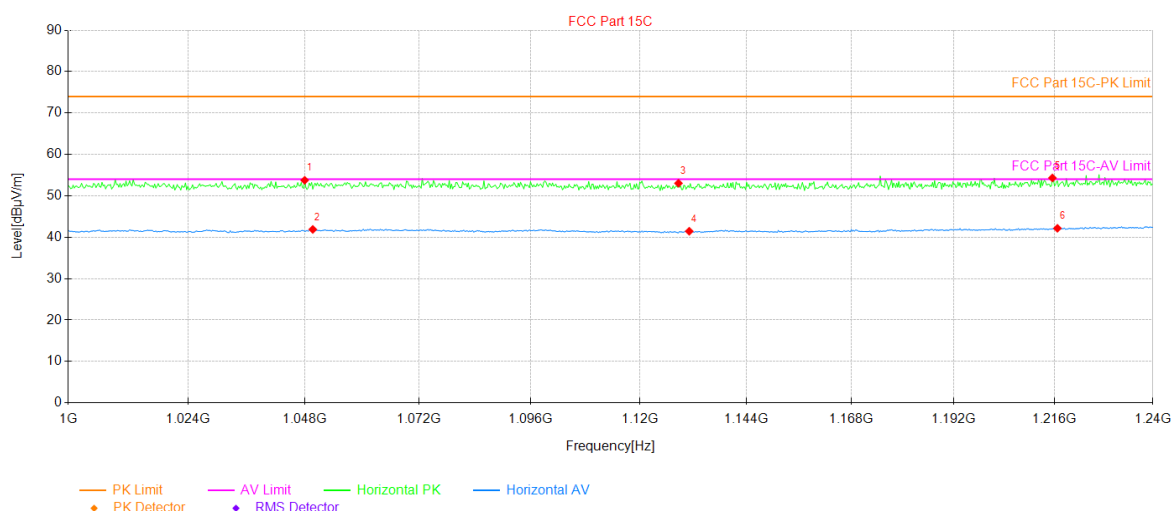
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	1054.00	23.60	30.17	53.77	74.00	20.23	100	PK	PASS	Vertical
2	1054.96	11.50	30.17	41.67	54.00	12.33	0	AV	PASS	Vertical
3	1130.56	10.94	30.55	41.49	54.00	12.51	110	AV	PASS	Vertical
4	1130.80	22.86	30.55	53.41	74.00	20.59	80	PK	PASS	Vertical
5	1207.36	23.12	30.72	53.84	74.00	20.16	110	PK	PASS	Vertical
6	1208.08	11.40	30.72	42.12	54.00	11.88	60	AV	PASS	Vertical

Remark:

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

Product Name:	CAR ALARM	Product Model:	A2LRB
Test By:	Reiy Ren	Test mode:	Tx mode
Test Channel:	Middle channel	Polarization:	Horizontal
Test Voltage:	DC 5V		



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	1048.00	23.62	30.14	53.76	74.00	20.24	270	PK	PASS	Horizontal
2	1049.68	11.75	30.14	41.89	54.00	12.11	270	AV	PASS	Horizontal
3	1128.64	22.48	30.55	53.03	74.00	20.97	60	PK	PASS	Horizontal
4	1131.04	10.90	30.55	41.45	54.00	12.55	360	AV	PASS	Horizontal
5	1215.52	23.57	30.75	54.32	74.00	19.68	90	PK	PASS	Horizontal
6	1216.72	11.40	30.76	42.16	54.00	11.84	330	AV	PASS	Horizontal

Remark:

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

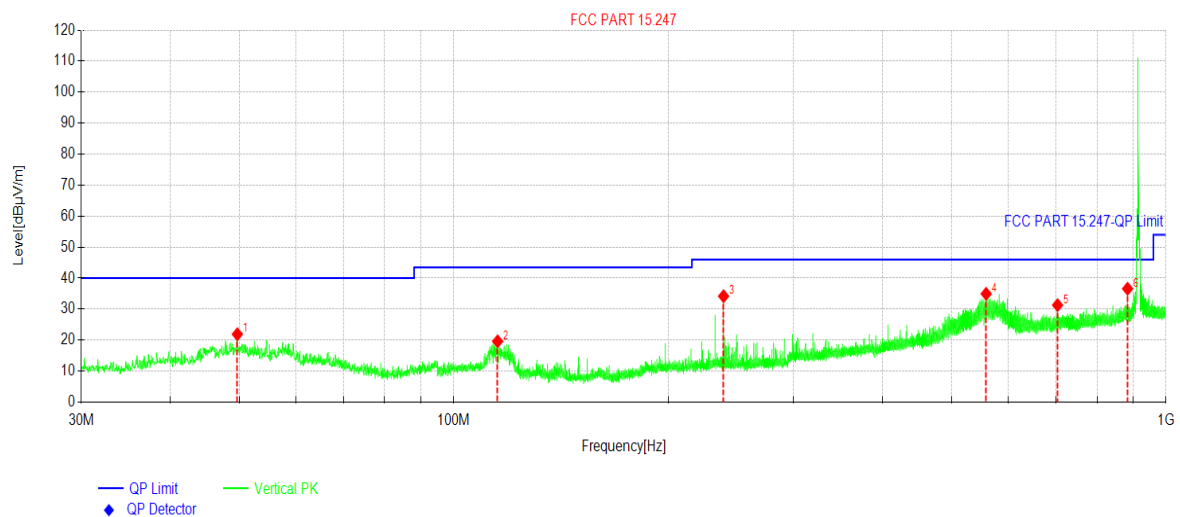
5.6.4 Emissions in Non-restricted Frequency Bands

Below 30MHz:

Test Frequency from 9KHz to 30MHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

Below 1GHz:

Product Name:	CAR ALARM	Product Model:	A2LRB
Test By:	Kiran Zeng	Test mode:	Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	DC 5V		



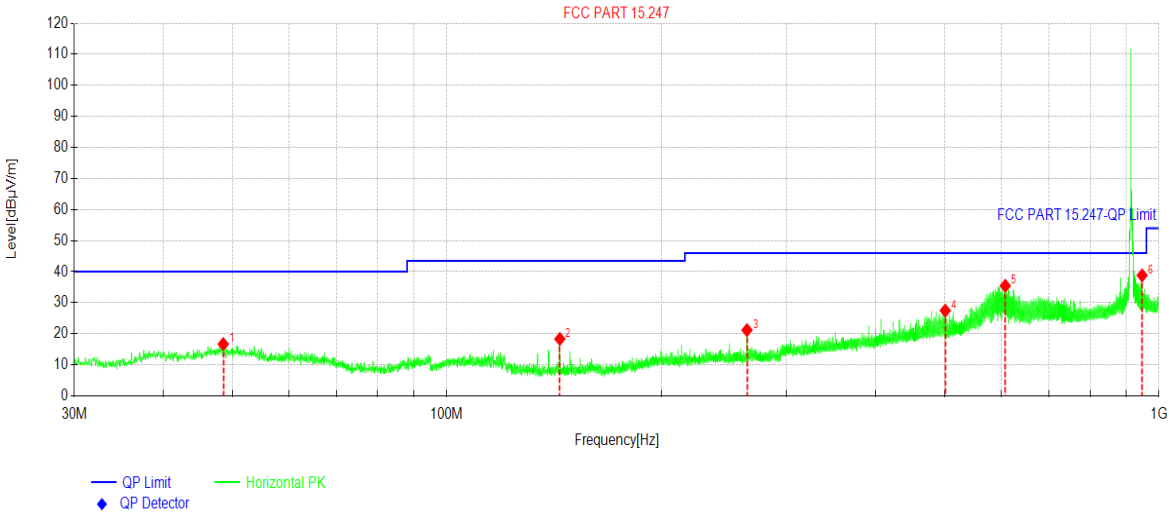
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	49.6910	34.55	-12.64	21.91	40.00	18.09	PK	Vertical
2	115.263	35.09	-15.47	19.62	43.50	23.88	PK	Vertical
3	239.277	48.08	-13.90	34.18	46.00	11.82	PK	Vertical
4	559.183	40.93	-5.98	34.95	46.00	11.05	PK	Vertical
5	704.344	34.63	-3.33	31.30	46.00	14.70	PK	Vertical
6	883.212	36.50	0.07	36.57	46.00	9.43	PK	Vertical

Remark:

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

Product Name:	CAR ALARM	Product Model:	A2LRB
Test By:	Kiran Zeng	Test mode:	Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	DC 5V		

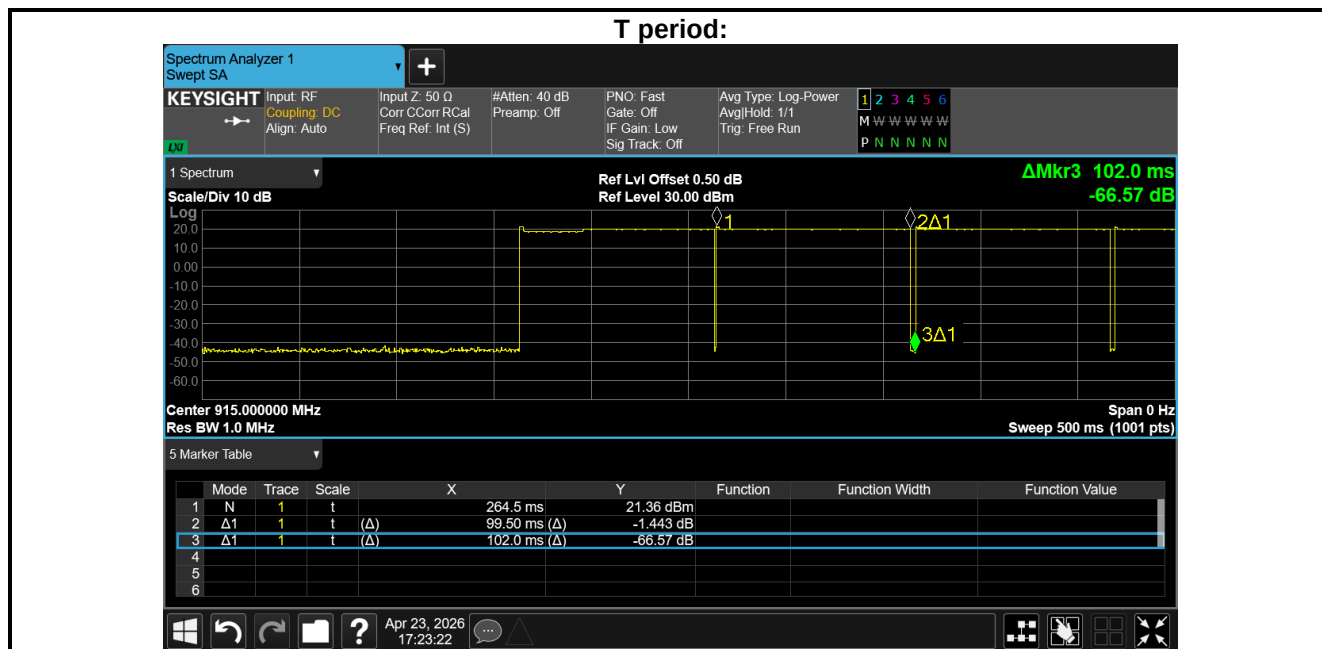


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	48.5755	29.42	-12.73	16.69	40.00	23.31	PK	Horizontal
2	144.169	36.32	-17.99	18.33	43.50	25.17	PK	Horizontal
3	263.964	34.79	-13.61	21.18	46.00	24.82	PK	Horizontal
4	501.080	35.18	-7.73	27.45	46.00	18.55	PK	Horizontal
5	608.411	40.35	-4.90	35.45	46.00	10.55	PK	Horizontal
6	946.892	38.01	0.81	38.82	46.00	7.18	PK	Horizontal

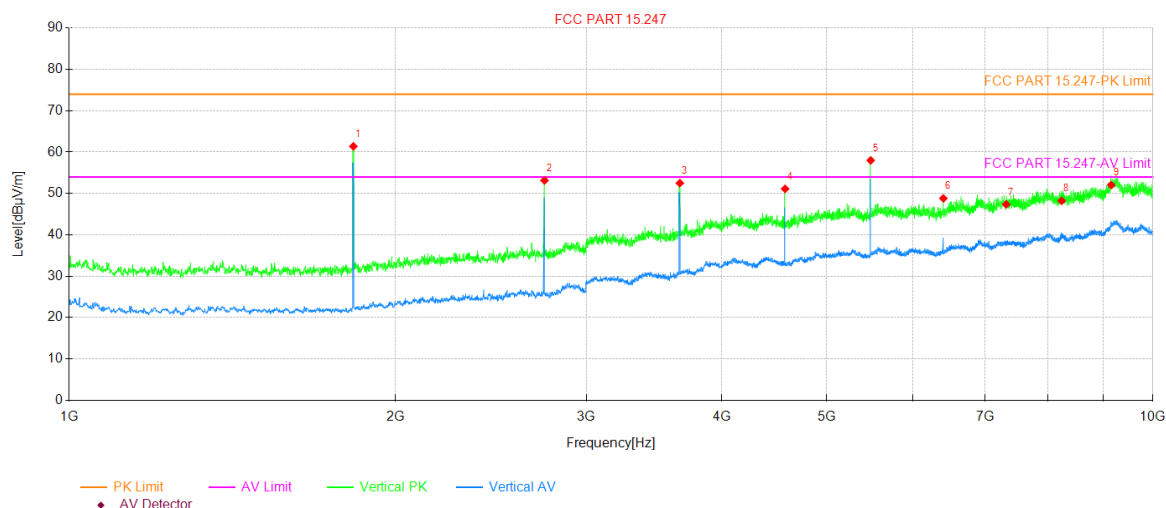
Remark:
1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Above 1GHz:

Duty Cycle Factor Calculate Formula:	Average value = Peak value + Duty Cycle Factor
	Duty cycle factor = $20\log(\text{Duty cycle})$
	Duty cycle = on time/period
	T on time = 99.5(ms)
	T period = 100(ms)
	Duty cycle = T on time/T period = $99.5/100 \times 100\% = 99.5\%$
	Duty cycle factor = $20\log(\text{Duty cycle}) = -0.04$



Product Name:	CAR ALARM	Product Model:	A2LRB
Test By:	Reiy Ren	Test mode:	Tx mode
Test Frequency:	1 GHz ~ 10 GHz	Polarization:	Vertical
Test Voltage:	DC 5V		

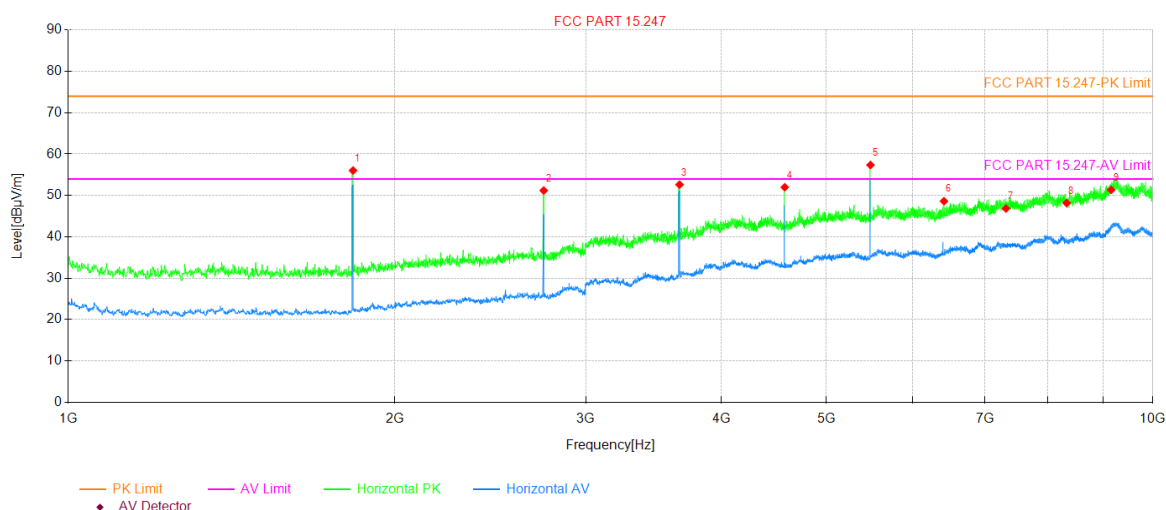


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	1829.13	83.89	-22.49	61.40	74.00	12.60	130	PK	PASS	Vertical
2	2744.88	70.64	-17.48	53.16	74.00	20.84	72	PK	PASS	Vertical
3	3659.50	64.61	-12.11	52.50	74.00	21.50	124	PK	PASS	Vertical
4	4576.38	60.25	-9.13	51.12	74.00	22.88	358	PK	PASS	Vertical
5	5489.88	64.84	-6.84	58.00	74.00	16.00	66	PK	PASS	Vertical
6	6405.63	54.40	-5.59	48.81	74.00	25.19	272	PK	PASS	Vertical
7	7320.00	51.32	-3.96	47.36	74.00	26.64	348	PK	PASS	Vertical
8	8235.00	50.57	-2.36	48.21	74.00	25.79	330	PK	PASS	Vertical
9	9150.00	51.14	0.90	52.04	74.00	21.96	48	PK	PASS	Vertical
Suspected Data List(Average)										
NO.	Freq. [MHz]	PK Level (dBμV/m)	Duty cycle factor	Average value (dBμV/m)	Limit [dBμV/m]	Margin [dB]	Detector	Verdict	Polarity	
1	2744.88	53.16	-0.04	53.12	54.00	0.88	AV	PASS	Vertical	
2	3659.50	52.50	-0.04	52.46	54.00	1.54	AV	PASS	Vertical	
3	4576.38	51.12	-0.04	51.08	54.00	2.92	AV	PASS	Vertical	
4	7320.00	47.36	-0.04	47.32	54.00	6.68	AV	PASS	Vertical	
5	8325.00	48.21	-0.04	48.17	54.00	5.83	AV	PASS	Vertical	
6	9150.00	52.04	-0.04	52.00	54.00	2.00	AV	PASS	Vertical	

Remark:

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

Product Name:	CAR ALARM	Product Model:	A2LRB
Test By:	Reiy Ren	Test mode:	Tx mode
Test Frequency:	1 GHz ~ 10 GHz	Polarization:	Horizontal
Test Voltage:	DC 5V		



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB/m]	Level [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	1830.25	78.52	-22.48	56.04	74.00	17.96	164	PK	PASS	Horizontal
2	2743.75	68.68	-17.48	51.20	74.00	22.80	310	PK	PASS	Horizontal
3	3660.63	64.71	-12.09	52.62	74.00	21.38	310	PK	PASS	Horizontal
4	4576.38	61.11	-9.13	51.98	74.00	22.02	339	PK	PASS	Horizontal
5	5489.88	64.21	-6.84	57.37	74.00	16.63	76	PK	PASS	Horizontal
6	6416.88	54.12	-5.51	48.61	74.00	25.39	351	PK	PASS	Horizontal
7	7320.00	50.80	-3.96	46.84	74.00	27.16	70	PK	PASS	Horizontal
8	8325.00	50.44	-2.26	48.18	74.00	25.82	258	PK	PASS	Horizontal
9	9150.00	50.46	0.90	51.36	74.00	22.64	12	PK	PASS	Horizontal
Suspected Data List(Average)										
NO.	Freq. [MHz]	PK Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit [dBuV/m]	Margin [dB]	Detector	Verdict	Polarity	
1	2743.75	51.20	-0.04	51.16	54.00	2.84	AV	PASS	Horizontal	
2	3660.63	52.62	-0.04	52.58	54.00	1.42	AV	PASS	Horizontal	
3	4576.38	51.98	-0.04	51.94	54.00	2.06	AV	PASS	Horizontal	
4	7320.00	46.84	-0.04	46.80	54.00	7.20	AV	PASS	Horizontal	
5	8325.00	48.18	-0.04	48.14	54.00	5.86	AV	PASS	Horizontal	
6	9150.00	51.36	-0.04	51.32	54.00	2.68	AV	PASS	Horizontal	

Remark:

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

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