

Test Report

Verified code: 986995

Report No.: E202308027685-1-G1

Customer: Nanjing CETC-Motor Co.,Ltd

Address: 2nd Floor, Building 3, Guorui, No.359 Middle Jiangdong Rd, Jianye District, Nanjing City, Jiangsu Province P.R.China

Sample Name: Body Control Module

Sample Model: BC04

Receive Sample Date: Aug.25,2023

Test Date: Nov.04,2023 ~ Nov.04,2023

Reference Document: 47 CFR Part 15 Subpart C Intentional Radiators
ANSI C63.10:2020

Test Result: Pass

Prepared by: Huang Lifang
Huang Lifang

Reviewed by: Jiang Tao
Jiang Tao

Approved by: Xiao Liang
Xiao Liang

GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date: 2024-01-30

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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E202308027685-1	Original Issue	2023-11-08
2.0	E202308027685-1-G1	Update Issue	2024-01-29

Version 2.0:

1. This report is based on E202308027685-1 for revised the factory's name: Suzhou Oufei light Technology Co., LTD to Suzhou Oufei Intelligent car Technology Co., LTD on page 6 of the report. It's had no effect on the test results.
2. This report replaced the original report E202308027685-1, and from the date of issuance of this report, the report which being replaced become invalid.

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1. TEST RESULT SUMMARY

Technical Requirements		
47 CFR Part 15 Subpart C, ANSI C63.10:2020		
Item	FCC Standard Chapter	Result
Antenna requirements	§15.203	Complied
Radiated Spurious Emissions	§15.209 & §15.205	Complied
20dB Bandwidth	§15.215	Complied
AC Conducted Emission	§15.207	N/A

Note: The six antennas of the EUT are External antenna, which accordance 15.203 is considered sufficient to comply with the provisions of this section. The six antennas of the EUT can't transmitting simultaneously. The EUT is power by DC source, the AC conduction emission is not applicant.

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2. GENERAL DESCRIPTION OF EUT

2.1 APPLICANT

Name: Nanjing CETC-Motor Co.,Ltd
Address: 2nd Floor, Building 3, Guorui, No.359 Middle Jiangdong Rd, Jianye District,
Nanjing City, Jiangsu Province P.R.China

2.2 MANUFACTURER

Name: Nanjing CETC-Motor Co.,Ltd
Address: 2nd Floor, Building 3, Guorui, No.359 Middle Jiangdong Rd, Jianye District,
Nanjing City, Jiangsu Province P.R.China

2.3 FACTORY

Name : Suzhou Oufei Intelligent car Technology Co., LTD
Address : No.233 Kangyang Road, Xiangcheng District, Huangdai Town, Suzhou City,
Jiangsu Province, China

2.4 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Product Name: Body Control Module
Product Model: BC04
Adding Model: /
Model Difference: /
Trade Name: /
Power Supply: DC 12.5V
Frequency Band: 125kHz
Maximum field strength: 45.98dB μ V/m@3m
FCC ID: 2BD9I-BC04
Antenna Type: External Antenna
Modulation type: ASK
Sample submitting way: ☒ Provided by customer ☐ Sampling
Sample No: E202308027685-0001
Temperature Range: -40°C ~ +80°C

Hardware version: 11648822

Software version: 11551695

Note:

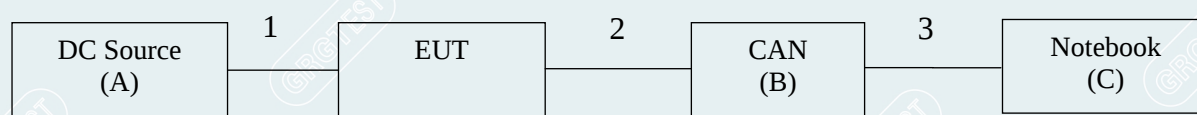
The basic description of the EUT is provided by the applicant. This report is made Solely on the basis of such data and/or information. We accept no responsibility for the authenticity and completeness of the above data and information and the validity of the results and/or conclusions.

2.5 TEST MODE

Mode No.	Description of the modes
Mode 1	ASK 125kHz Transmitting

2.6 BLOCK DIAGRAM

Mode 1:



2.7 LOCAL SUPPORTIVE INSTRUMENTS

No.	Name of Equipment	Manufacturer	Model	Serial Number
A	DC Source	LW	PS-305DM	180704473
B	CAN	CETC-Motor	TENUS Pro	/
C	Notebook	DELL	Latitude 3420	4KBCGL3

No.	Cable Type	Qty.	Shielded Type	Ferrite Core(Qty.)	Note
1	DC Cable	1	No	0	1.95m
2	DC Cable	1	No	0	3.00m
3	USB Cable	1	No	0	1.80m

3. LABORATORY AND MEASUREMENT UNCERTAINTY

3.1 LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of GRG METROLOGY & TEST GROUP CO., LTD.

Add : No.1301 Guangguang Road Xinlan Community, Guanlan Street, Longhua District
Shenzhen, 518110, People's Republic of China

P.C. : 518110

Tel : 0755-61180008

Fax : 0755-61180008

3.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA A2LA(Certificate#:2861.01)

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada ISED (Company Number: 24897, CAB identifier:CN0069)

USA FCC (Registration Number: 759402, Designation Number:CN1198)

Copies of granted accreditation certificates are available for downloading from our web site,
<http://www.grgtest.com>

3.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Uncertainty
RF frequency	6.0×10^{-6}
Humidity	6.0%
Temperature	2.0°C

Measurement		Frequency	Uncertainty
Radiated Emission	Coaxial	9kHz~30MHz	4.4dB
	Coplanar	9kHz~30MHz	4.4dB
	Horizontal	30MHz~200MHz	4.6dB
	Horizontal	200MHz~1000MHz	4.8dB
	Vertical	30MHz~200MHz	4.7dB
	Vertical	200MHz~1000MHz	4.7dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95%.

This uncertainty represents an expanded uncertainty factor of $k=2$.

4. LIST OF USED TEST EQUIPMENT AT GRGT**4.1 LIST OF USED TEST EQUIPMENT**

Name of equipment	Manufacturer	Model	Serial number	Calibration due
Radiated Spurious Emissions & 20dB Bandwidth				
Receiver	R&S	ESR26	101758	2024-09-22
Bi-log Antenna	schwarzbeck	VULB 9160	VULB9160-3402	2024-09-24
Preamplifiers	SHIRONG ELECTRONIC	DLNA-30M1G-G41	20200928003	2023-12-19
Loop Antenna	schwarzbeck	FMZB 1513-60	1513-60-56	2024-07-15
Spectrum Analyzer	R&S	FSV30	104381-rH	2024-10-13
Test Software	Tonscend	JS32-RE		

Note: The calibration interval of the test instruments is 12 months.

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5. RADIATED SPURIOUS EMISSIONS

5.1 LIMITS

Frequency (MHz)	Quasi-peak($\mu\text{V/m}$)	Measurement distance(m)	Quasi-peak(dB $\mu\text{V/m}$)@distance 3m
0.009-0.490	2400/F(kHz)	300	128.5~93.8
0.490-1.705	24000/F(kHz)	30	73.8~63
1.705-30.0	30	30	69.5
30 ~ 88	100	3	40
88~216	150	3	43.5
216 ~ 960	200	3	46
Above 960	500	3	54

NOTE: (1) The lower limit shall apply at the transition frequencies.

5.2 TEST PROCEDURES

1) Sequence of testing 9kHz to 30MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Pre measurement:

- The turntable rotates from 0 °to 360 °.
- The antenna height is 1 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- Identified emissions during the pre measurement the software maximizes by rotating the turntable position (0 °to 360 °) and by rotating the elevation axes (0 °to 360 °).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QP detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement and the limit will be stored.

2) Sequence of testing 30MHz to 1GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The measurement distance is 3 meter.
- The EUT was set into operation.

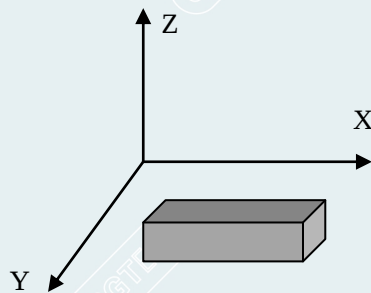
Pre measurement:

- The turntable rotates from 0° to 360° .
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 4 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable rotates from 0° to 360° and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.



MEASURING INSTRUMENTS SETTING

9kHz to 150kHz

Receiver parameters	Setting
RBW	200Hz
VBW	200Hz
Start frequency	9kHz
Stop frequency	150kHz
Sweep time	Auto
Detector	QP
Trace mode	Max Hold

150kHz to 30MHz

Receiver parameters	Setting
RBW	9kHz
VBW	10kHz
Start frequency	150kHz
Stop frequency	30MHz
Sweep time	Auto
Detector	QP
Trace mode	Max Hold

30MHz to 1GHz

Receiver parameters	Setting
RBW	100kHz
VBW	300kHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep time	Auto
Detector	QP
Trace mode	Max Hold

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5.3 TEST SETUP

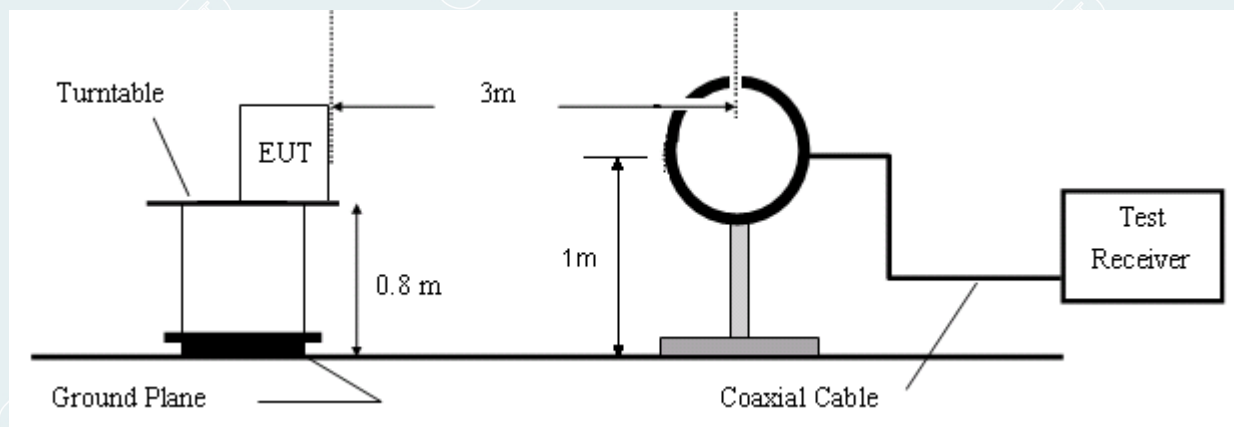


Figure 1. 9kHz to 30MHz radiated emissions test configuration

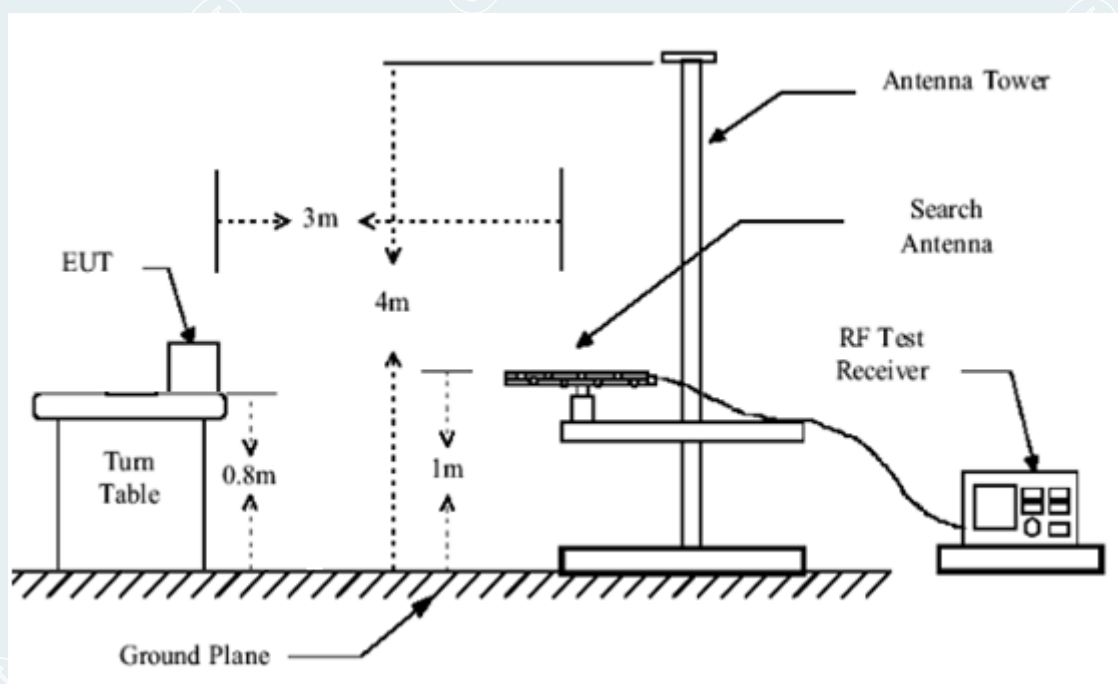


Figure 2. 30MHz to 1GHz radiated emissions test configuration

5.4 DATA SAMPLE**0.009MHz to 30MHz**

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	XXX	28.60	50.34	21.74	112.63	62.29	PK	100	93	Coplanar	PASS
2	XXX	29.88	51.89	22.01	107.25	55.36	PK	100	93	Coplanar	PASS

Frequency (MHz) = Emission frequency in MHz

Ant.Pol. (Coplanar/ Coaxial) = Antenna polarization

Reading (dBuV/m) = Uncorrected Analyzer / Receiver reading

Factor (dB) = Antenna factor + Cable loss – Amplifier gain

Level (dBuV/m) = Reading (dBuV/m) + Factor (dB)

Limit (dBuV/m) = Limit stated in standard

Margin (dB) = Limit (dBuV/m) – Level (dBuV/m)

PK = Peak Reading

30MHz to 1GHz**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
xxxx	xxxx	62.87	34.23	-28.64	40.00	5.77	PK	200	351	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
xxxx	xxxx	-28.64	54.02	25.38	40.00	14.62	100	196	Horizontal

Frequency (MHz) = Emission frequency in MHz

Reading (dBuV/m) = Uncorrected Analyzer / Receiver reading

Level (dBuV/m) = Reading (dBuV/m) + Factor (dB)

Limit (dBuV/m) = Limit stated in standard

Margin (dB) = Limit(dBuV/m)- Level(dBuV/m)

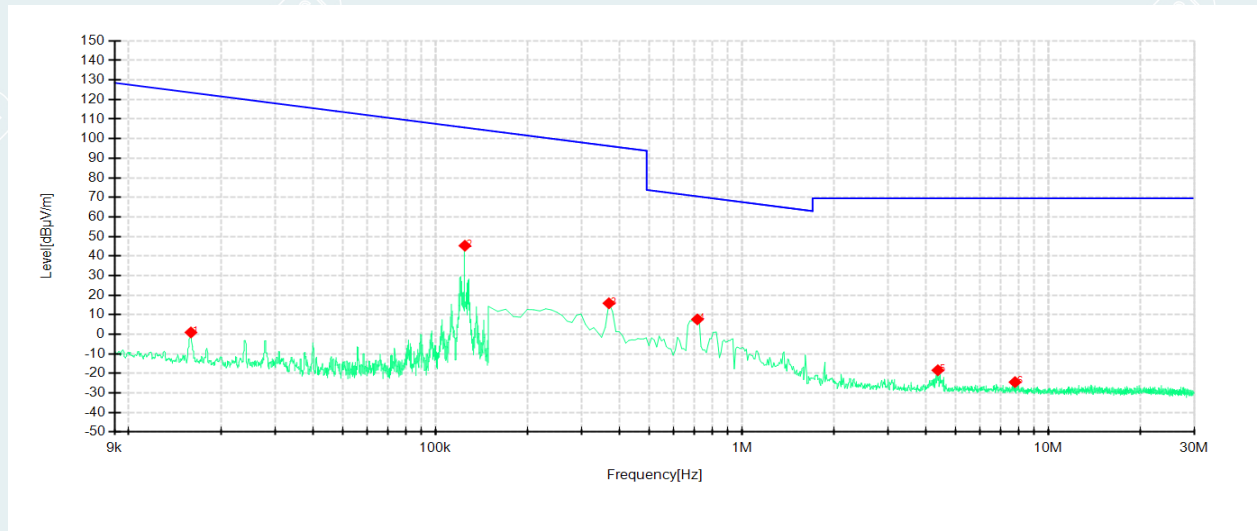
QP = Quasi-peak Reading

5.5 TEST RESULTS

9kHz-30MHz

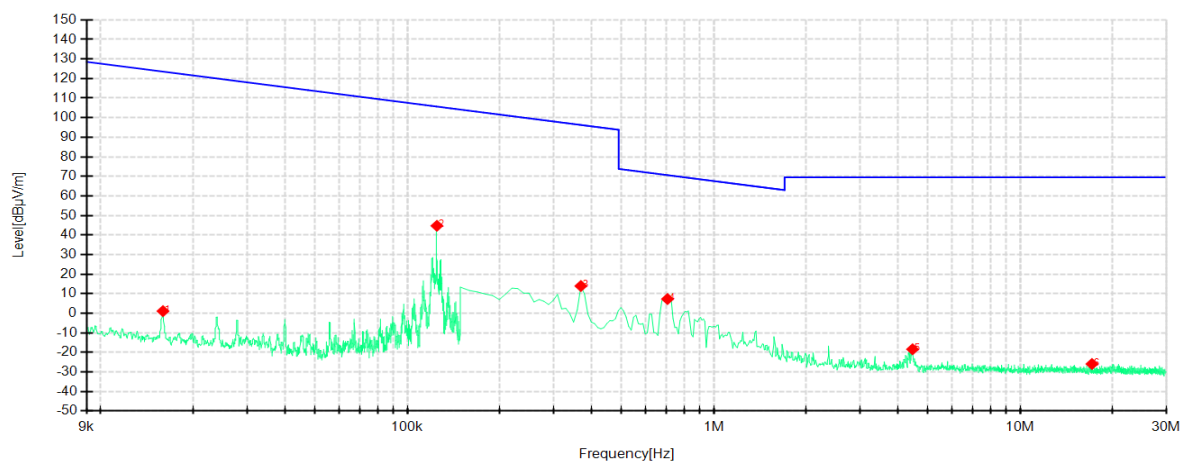
Note: If the margin of the pre-test results is greater than 6dB, it meets the requirements of quasi peak or average values, and final testing is no longer required.

Project Information			
Application No.:	E202308027685	EUT:	BODY CONTROL MODULE
Model:	BC04	SN:	E202308027685-0001
Mode:	Mode 1	Voltage:	DC 12.5V
Environment:	Temp: 23.1℃; Humi: 45%; 101.0kPa	Engineer:	Zhang zishan
Tested Date:	2023-11-04	Test Antenna	Antenna 1(IMMO)



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0160	32.76	0.93	-31.83	123.55	122.62	PK	100	358	Coplanar	PASS
2	0.1250	77.12	45.27	-31.85	105.67	60.40	PK	100	126	Coplanar	PASS
3	0.3689	47.72	15.85	-31.87	96.27	80.42	PK	100	165	Coplanar	PASS
4	0.7172	39.30	7.60	-31.70	70.49	62.89	PK	100	270	Coplanar	PASS
5	4.3688	12.70	-18.39	-31.09	69.54	87.93	PK	100	118	Coplanar	PASS
6	7.8016	6.55	-24.48	-31.03	69.54	94.02	PK	100	14	Coplanar	PASS

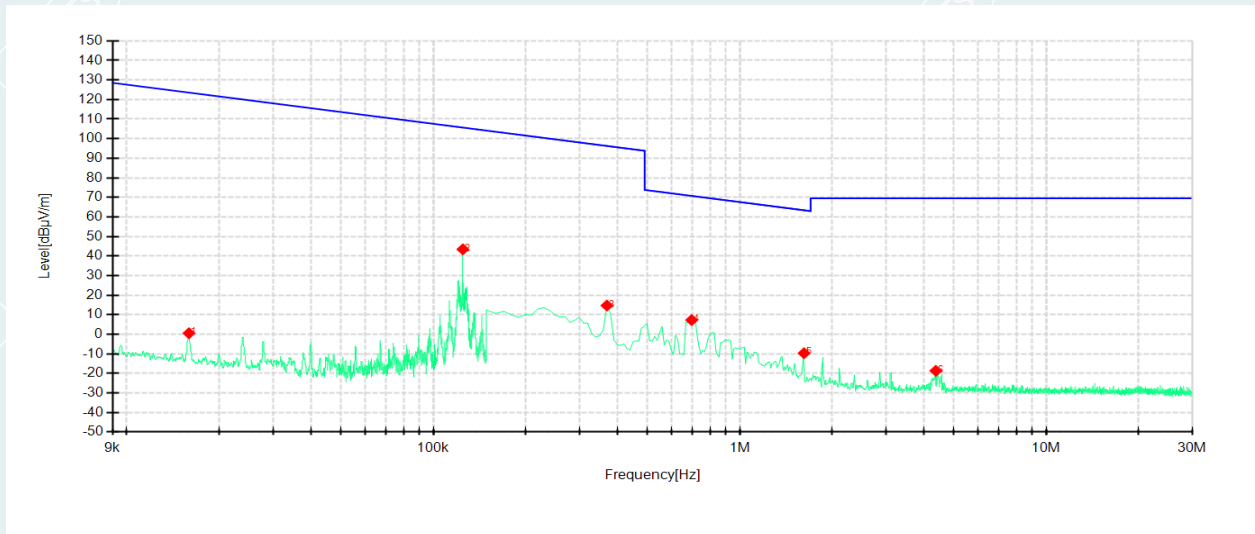


Suspected Data List

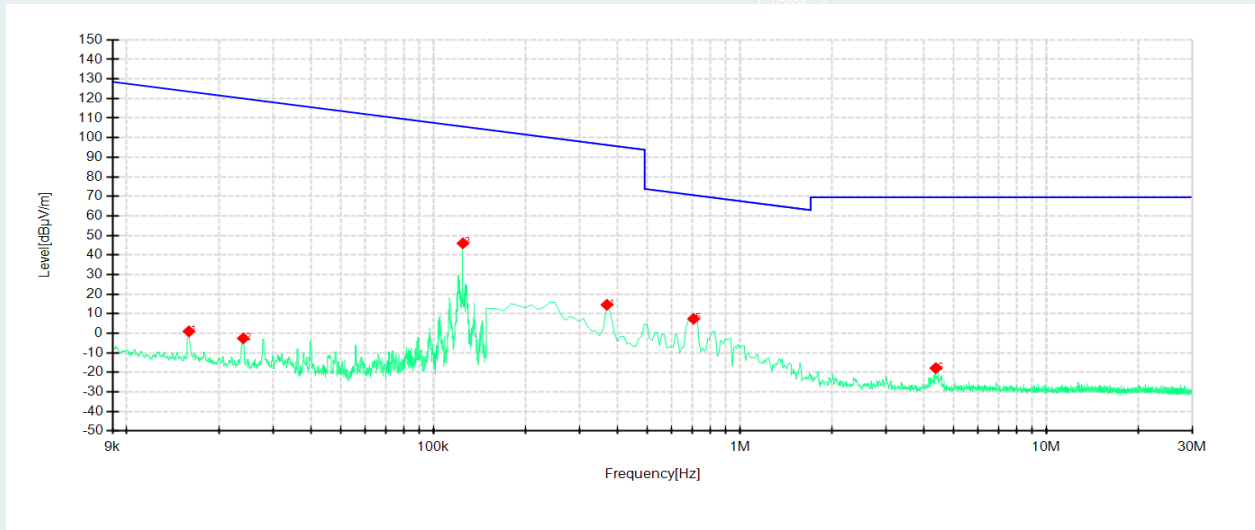
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0160	32.93	1.10	-31.83	123.55	122.45	PK	100	358	Coaxial	PASS
2	0.1250	76.57	44.72	-31.85	105.67	60.95	PK	100	126	Coaxial	PASS
3	0.3689	45.80	13.93	-31.87	96.27	82.34	PK	100	0	Coaxial	PASS
4	0.7072	38.95	7.28	-31.67	70.61	63.33	PK	100	128	Coaxial	PASS
5	4.4584	12.66	-18.41	-31.07	69.54	87.95	PK	100	339	Coaxial	PASS
6	17.1645	4.69	-25.92	-30.61	69.54	95.46	PK	100	59	Coaxial	PASS

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Project Information			
Application No.:	E202308027685	EUT:	BODY CONTROL MODULE
Model:	BC04	SN:	E202308027685-0001
Mode:	Mode 1	Voltage:	DC 12.5V
Environment:	Temp: 23.1℃; Humi: 45%; 101.0kPa	Engineer:	Zhang zishan
Tested Date:	2023-11-04	Test Antenna	Antenna 2(Facia)



Suspected Data List											
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0160	32.36	0.53	-31.83	123.55	123.02	PK	100	194	Coplanar	PASS
2	0.1250	75.26	43.41	-31.85	105.67	62.26	PK	100	147	Coplanar	PASS
3	0.3689	46.55	14.68	-31.87	96.27	81.59	PK	100	177	Coplanar	PASS
4	0.6973	38.90	7.25	-31.65	70.74	63.49	PK	100	3	Coplanar	PASS
5	1.6226	22.08	-9.67	-31.75	63.40	73.07	PK	100	143	Coplanar	PASS
6	4.3688	12.41	-18.68	-31.09	69.54	88.22	PK	100	49	Coplanar	PASS

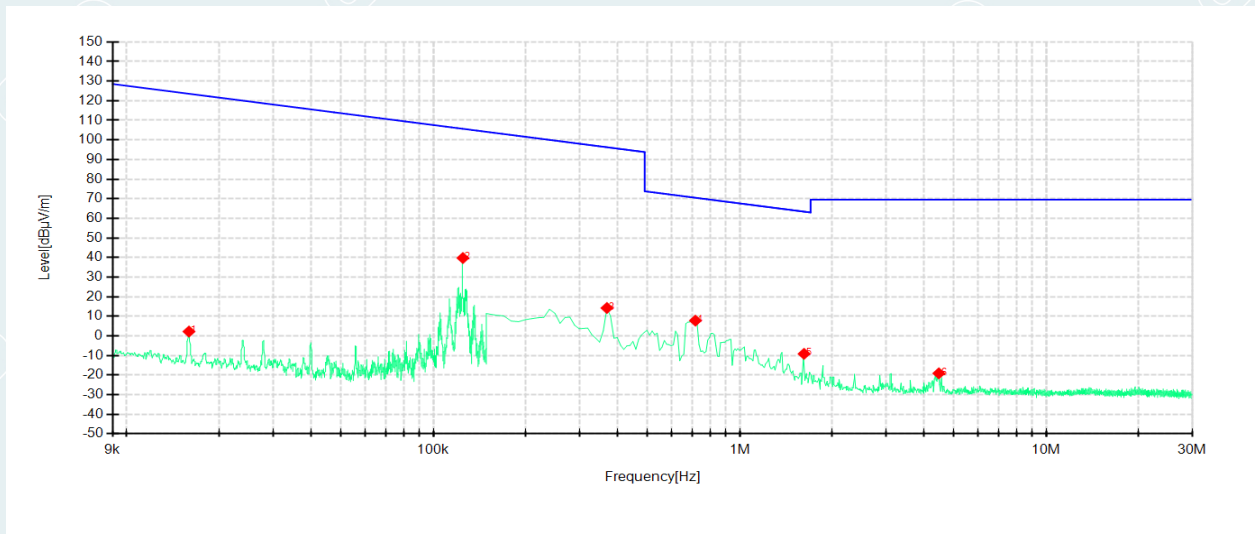


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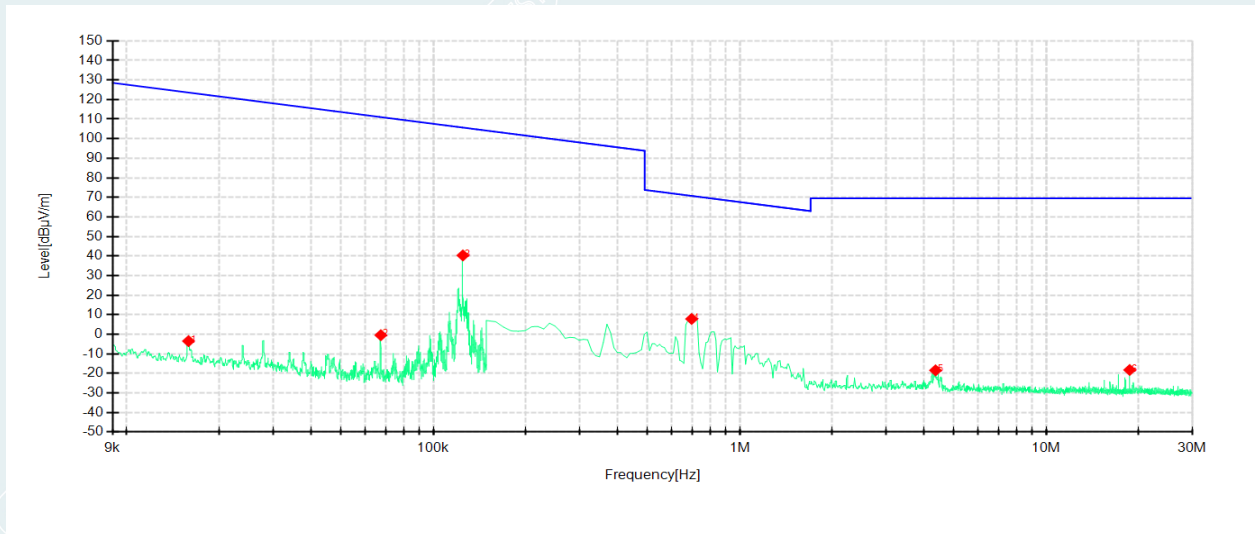
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0160	32.80	0.97	-31.83	123.55	122.58	PK	100	20	Coaxial	PASS
2	0.0240	29.27	-2.60	-31.87	120.00	122.60	PK	100	246	Coaxial	PASS
3	0.1250	77.83	45.98	-31.85	105.67	59.69	PK	100	174	Coaxial	PASS
4	0.3689	46.43	14.56	-31.87	96.27	81.71	PK	100	128	Coaxial	PASS
5	0.7072	39.04	7.37	-31.67	70.61	63.24	PK	100	81	Coaxial	PASS
6	4.3688	13.24	-17.85	-31.09	69.54	87.39	PK	100	271	Coaxial	PASS

----- The following blanks -----

Project Information			
Application No.:	E202308027685	EUT:	BODY CONTROL MODULE
Model:	BC04	SN:	E202308027685-0001
Mode:	Mode 1	Voltage:	DC 12.5V
Environment:	Temp: 23.1℃; Humi: 45%; 101.0kPa	Engineer:	Zhang zishan
Tested Date:	2023-11-04	Test Antenna	Antenna 3(Driver)



Suspected Data List											
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0160	34.04	2.21	-31.83	123.55	121.34	PK	100	302	Coplanar	PASS
2	0.1250	71.58	39.73	-31.85	105.67	65.94	PK	100	113	Coplanar	PASS
3	0.3689	46.11	14.24	-31.87	96.27	82.03	PK	100	0	Coplanar	PASS
4	0.7172	39.50	7.80	-31.70	70.49	62.69	PK	100	138	Coplanar	PASS
5	1.6226	22.59	-9.16	-31.75	63.40	72.56	PK	100	185	Coplanar	PASS
6	4.4683	11.96	-19.11	-31.07	69.54	88.65	PK	100	269	Coplanar	PASS

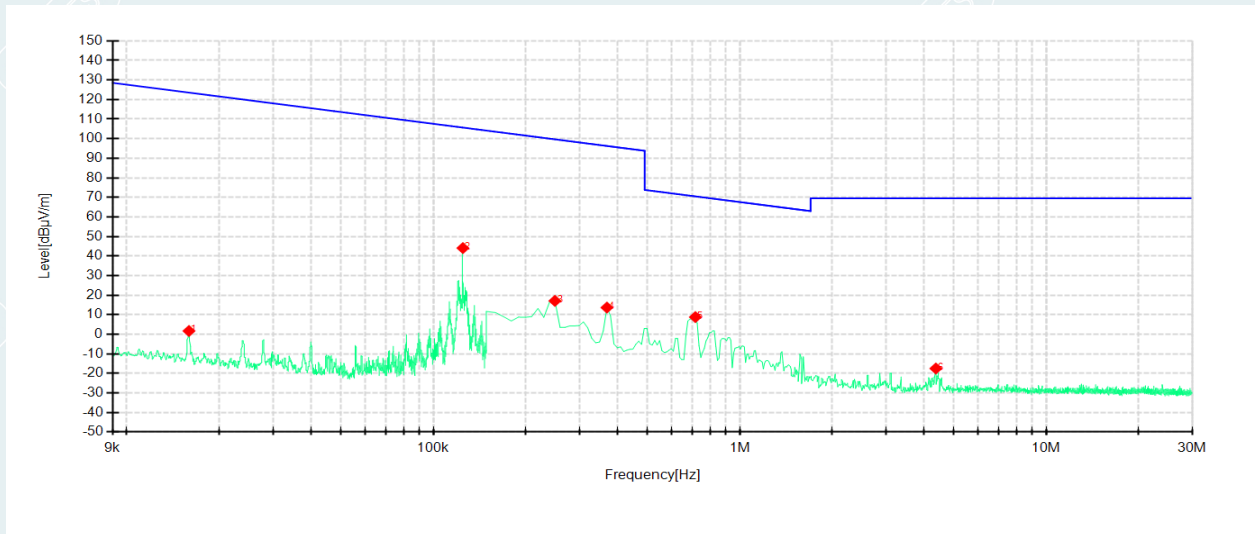


Suspected Data List

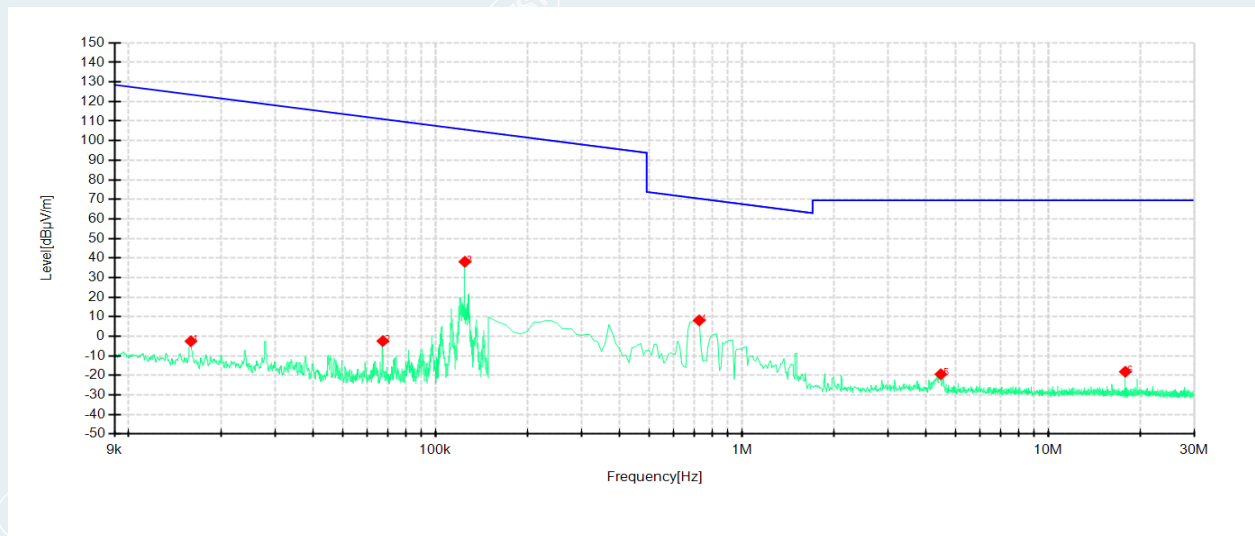
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0159	28.34	-3.49	-31.83	123.57	127.06	PK	100	207	Coaxial	PASS
2	0.0675	31.21	-0.47	-31.68	111.02	111.49	PK	100	78	Coaxial	PASS
3	0.1250	72.17	40.32	-31.85	105.67	65.35	PK	100	54	Coaxial	PASS
4	0.6973	39.49	7.84	-31.65	70.74	62.90	PK	100	294	Coaxial	PASS
5	4.3589	12.63	-18.45	-31.08	69.54	87.99	PK	100	48	Coaxial	PASS
6	18.7466	12.12	-18.25	-30.37	69.54	87.79	PK	100	48	Coaxial	PASS

----- The following blanks -----

Project Information			
Application No.:	E202308027685	EUT:	BODY CONTROL MODULE
Model:	BC04	SN:	E202308027685-0001
Mode:	Mode 1	Voltage:	DC 12.5V
Environment:	Temp: 23.1℃; Humi: 45%; 101.0kPa	Engineer:	Zhang zishan
Tested Date:	2023-11-04	Test Antenna	Antenna 4 (Front Passenger)



Suspected Data List											
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0160	33.51	1.68	-31.83	123.55	121.87	PK	100	312	Coplanar	PASS
2	0.1250	75.90	44.05	-31.85	105.67	61.62	PK	100	335	Coplanar	PASS
3	0.2495	49.15	17.07	-32.08	99.66	82.59	PK	100	329	Coplanar	PASS
4	0.3689	45.52	13.65	-31.87	96.27	82.62	PK	100	13	Coplanar	PASS
5	0.7172	40.48	8.78	-31.70	70.49	61.71	PK	100	306	Coplanar	PASS
6	4.3688	13.58	-17.51	-31.09	69.54	87.05	PK	100	166	Coplanar	PASS

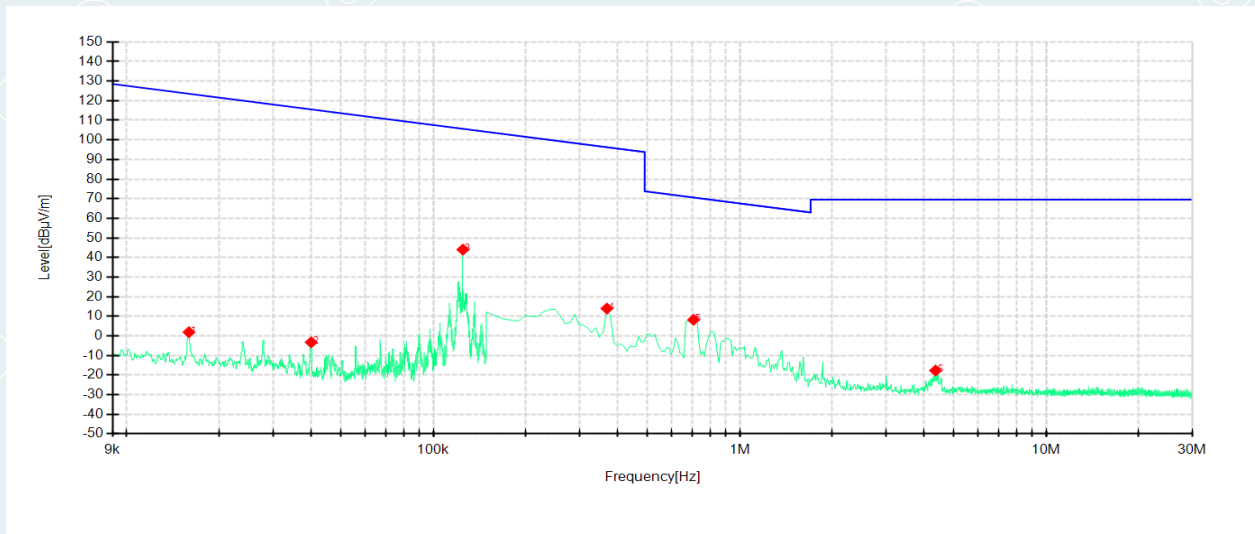


Suspected Data List

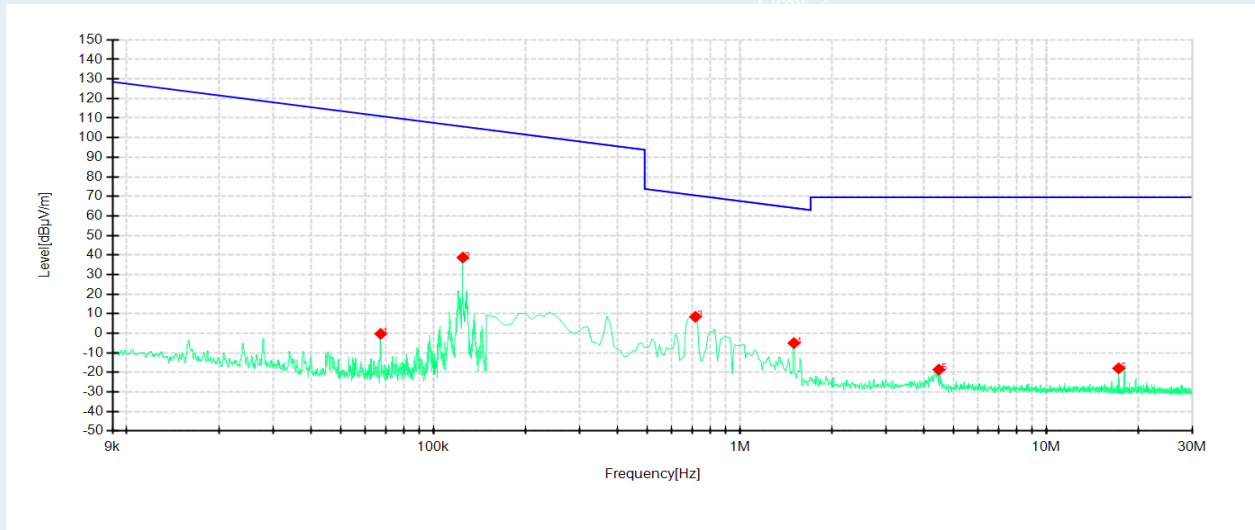
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0160	29.31	-2.52	-31.83	123.55	126.07	PK	100	159	Coaxial	PASS
2	0.0675	29.24	-2.44	-31.68	111.02	113.46	PK	100	335	Coaxial	PASS
3	0.1250	69.93	38.08	-31.85	105.67	67.59	PK	100	113	Coaxial	PASS
4	0.7271	39.85	8.13	-31.72	70.37	62.24	PK	100	2	Coaxial	PASS
5	4.4683	11.66	-19.41	-31.07	69.54	88.95	PK	100	271	Coaxial	PASS
6	17.8710	12.48	-18.14	-30.62	69.54	87.68	PK	100	35	Coaxial	PASS

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Project Information			
Application No.:	E202308027685	EUT:	BODY CONTROL MODULE
Model:	BC04	SN:	E202308027685-0001
Mode:	Mode 1	Voltage:	DC 12.5V
Environment:	Temp: 23.1℃; Humi: 45%; 101.0kPa	Engineer:	Zhang zishan
Tested Date:	2023-11-04	Test Antenna	Antenna 5(Rear Bumper)



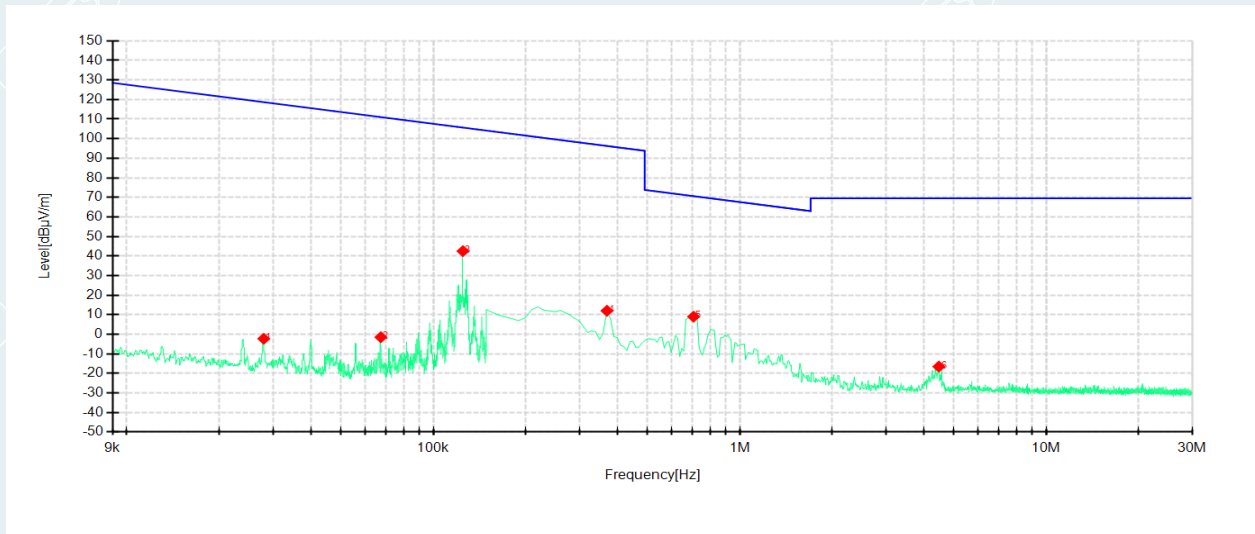
Suspected Data List											
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0160	33.71	1.88	-31.83	123.55	121.67	PK	100	360	Coplanar	PASS
2	0.0400	28.57	-3.28	-31.85	115.57	118.85	PK	100	22	Coplanar	PASS
3	0.1250	75.87	44.02	-31.85	105.67	61.65	PK	100	324	Coplanar	PASS
4	0.3689	45.81	13.94	-31.87	96.27	82.33	PK	100	342	Coplanar	PASS
5	0.7072	39.89	8.22	-31.67	70.61	62.39	PK	100	306	Coplanar	PASS
6	4.3589	13.38	-17.70	-31.08	69.54	87.24	PK	100	143	Coplanar	PASS



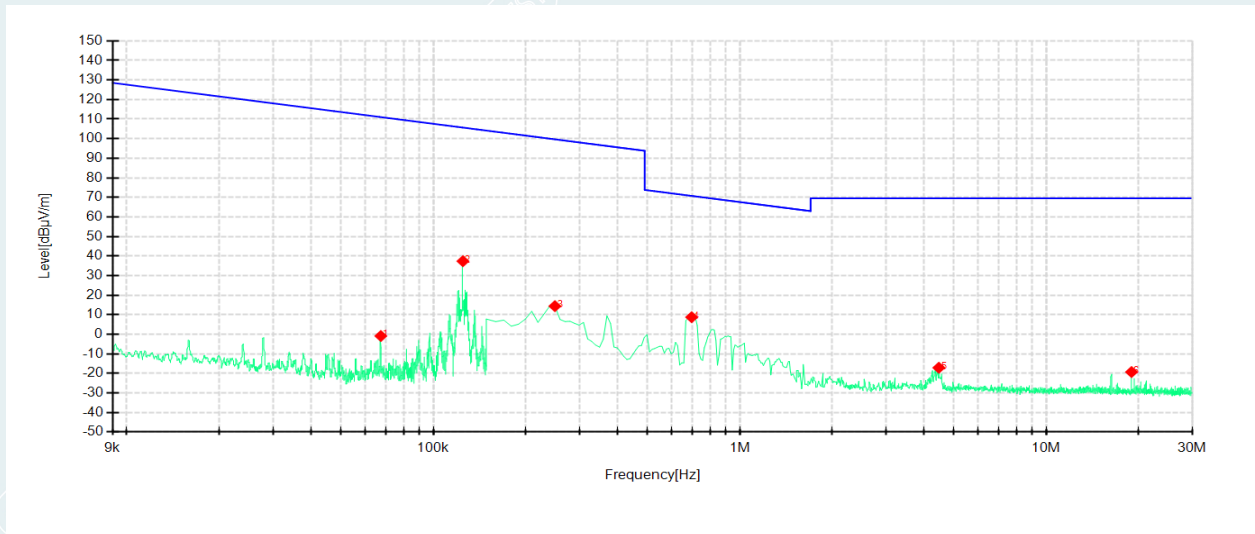
Suspected Data List											
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0674	31.37	-0.31	-31.68	111.03	111.34	PK	100	79	Coaxial	PASS
2	0.1250	70.55	38.70	-31.85	105.67	66.97	PK	100	101	Coaxial	PASS
3	0.7172	40.10	8.40	-31.70	70.49	62.09	PK	100	303	Coaxial	PASS
4	1.5032	26.69	-5.02	-31.71	64.06	69.08	PK	100	270	Coaxial	PASS
5	4.4683	12.49	-18.58	-31.07	69.54	88.12	PK	100	233	Coaxial	PASS
6	17.2541	12.67	-17.95	-30.62	69.54	87.49	PK	100	338	Coaxial	PASS

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Project Information			
Application No.:	E202308027685	EUT:	BODY CONTROL MODULE
Model:	BC04	SN:	E202308027685-0001
Mode:	Mode 1	Voltage:	DC 12.5V
Environment:	Temp: 23.1℃; Humi: 45%; 101.0kPa	Engineer:	Zhang zishan
Tested Date:	2023-11-04	Test Antenna	Antenna 6(Rear Seat)



Suspected Data List											
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0280	29.61	-2.28	-31.89	118.67	120.95	PK	100	243	Coplanar	PASS
2	0.0675	30.18	-1.50	-31.68	111.02	112.52	PK	100	278	Coplanar	PASS
3	0.1250	74.35	42.50	-31.85	105.67	63.17	PK	100	44	Coplanar	PASS
4	0.3689	43.87	12.00	-31.87	96.27	84.27	PK	100	164	Coplanar	PASS
5	0.7072	40.67	9.00	-31.67	70.61	61.61	PK	100	340	Coplanar	PASS
6	4.4683	14.53	-16.54	-31.07	69.54	86.08	PK	100	37	Coplanar	PASS



Suspected Data List

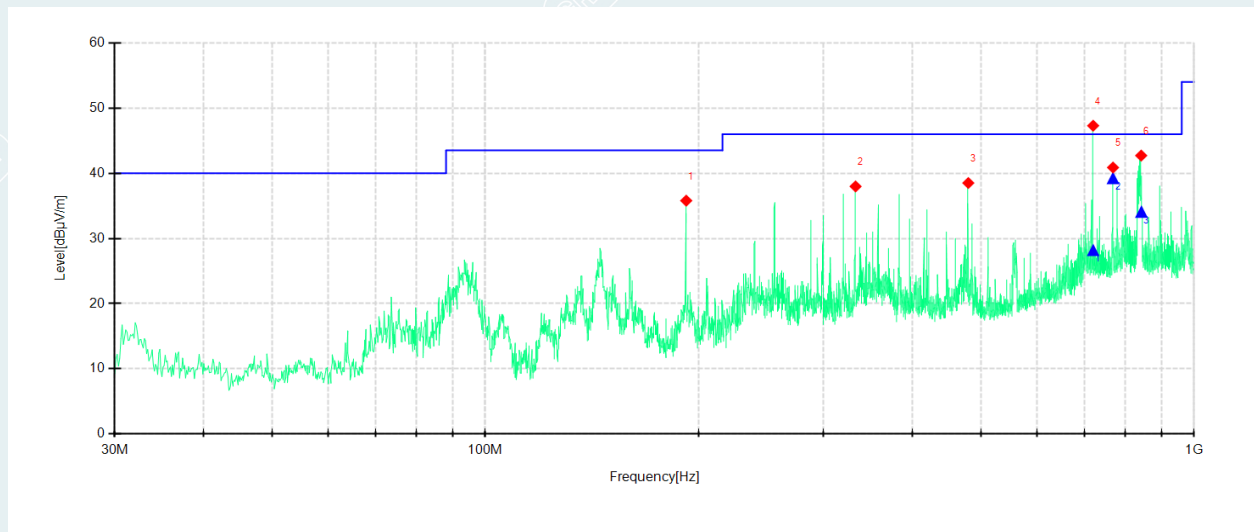
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0675	30.79	-0.89	-31.68	111.02	111.91	PK	100	335	Coaxial	PASS
2	0.1250	69.22	37.37	-31.85	105.67	68.30	PK	100	89	Coaxial	PASS
3	0.2495	46.46	14.38	-32.08	99.66	85.28	PK	100	223	Coaxial	PASS
4	0.6973	40.39	8.74	-31.65	70.74	62.00	PK	100	329	Coaxial	PASS
5	4.4683	13.97	-17.10	-31.07	69.54	86.64	PK	100	95	Coaxial	PASS
6	19.0053	10.99	-19.30	-30.29	69.54	88.84	PK	100	165	Coaxial	PASS

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30MHz-1GHz

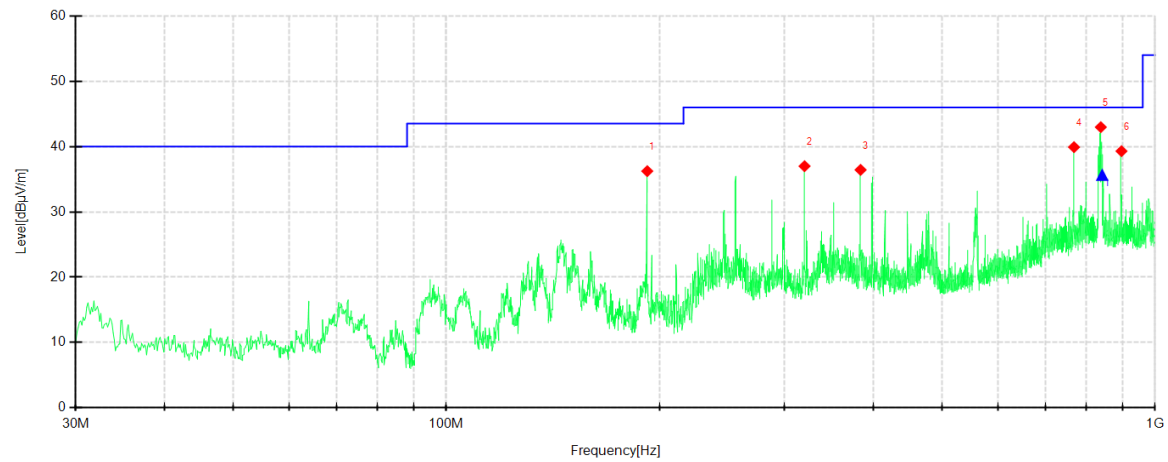
Note: If the margin of the pre test results is greater than 6db, it meets the requirements of quasi peak values, and final testing is no longer required.

Project Information			
Application No.:	E202308027685	EUT:	BODY CONTROL MODULE
Model:	BC04	SN:	E202308027685-0001
Mode:	Mode 1	Voltage:	DC 12.5V
Environment:	Temp: 23.1℃; Humi: 45%; 101.0kPa	Engineer:	Zhang zishan
Tested Date:	2023-11-04	Test Antenna	Antenna 1(IMMO)



Suspected Data List											
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	192.0103	66.51	35.80	-30.71	43.50	7.70	PK	100	249	Horizontal	PASS
2	332.7991	64.41	37.98	-26.43	46.00	8.02	PK	100	158	Horizontal	PASS
3	480.0150	60.44	38.51	-21.93	46.00	7.49	PK	100	236	Horizontal	PASS
4	719.9988	64.55	47.29	-17.26	46.00	-1.29	PK	100	171	Horizontal	FAIL
5	768.0198	57.51	40.88	-16.63	46.00	5.12	PK	100	131	Horizontal	PASS
6	841.6277	58.65	42.71	-15.94	46.00	3.29	PK	100	340	Horizontal	PASS

Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit[dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	720.0818	-17.26	45.43	28.17	46.00	17.83	100	307.1	Horizontal	PASS
2	767.9647	-16.63	55.83	39.20	46.00	6.80	100	126	Horizontal	PASS
3	842.2006	-15.94	49.99	34.05	46.00	11.95	100	21.9	Horizontal	PASS



Suspected Data List

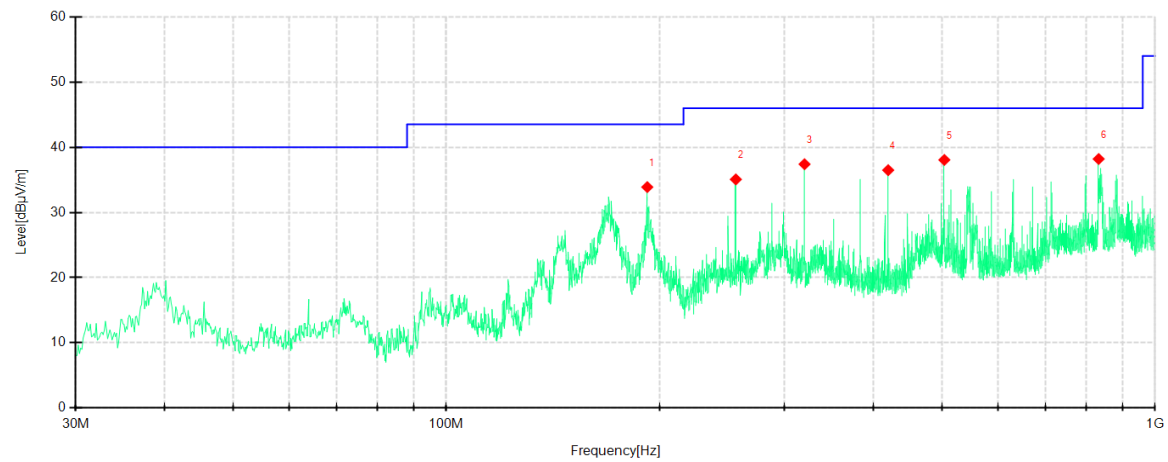
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	192.0103	66.95	36.24	-30.71	43.50	7.26	PK	200	254	Vertical	PASS
2	320.0663	63.91	37.00	-26.91	46.00	9.00	PK	100	132	Vertical	PASS
3	383.9730	61.28	36.43	-24.85	46.00	9.57	PK	100	250	Vertical	PASS
4	768.0198	56.54	39.91	-16.63	46.00	6.09	PK	200	124	Vertical	PASS
5	837.8685	58.93	42.97	-15.96	46.00	3.03	PK	100	4	Vertical	PASS
6	896.0758	54.53	39.30	-15.23	46.00	6.70	PK	100	212	Vertical	PASS

Final Data List

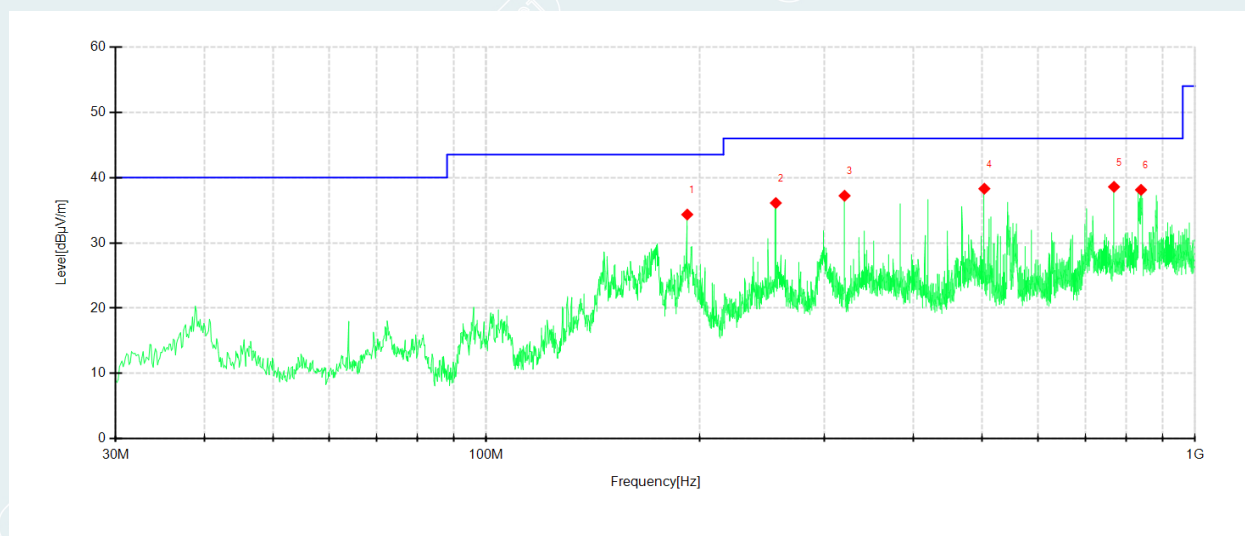
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	841.5541	-15.96	51.60	35.64	46.00	10.36	100	346.7	Vertical	PASS

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Project Information			
Application No.:	E202308027685	EUT:	BODY CONTROL MODULE
Model:	BC04	SN:	E202308027685-0001
Mode:	Mode 1	Voltage:	DC 12.5V
Environment:	Temp: 23.1℃; Humi: 45%; 101.0kPa	Engineer:	Zhang zishan
Tested Date:	2023-11-04	Test Antenna	Antenna 2(Facia)



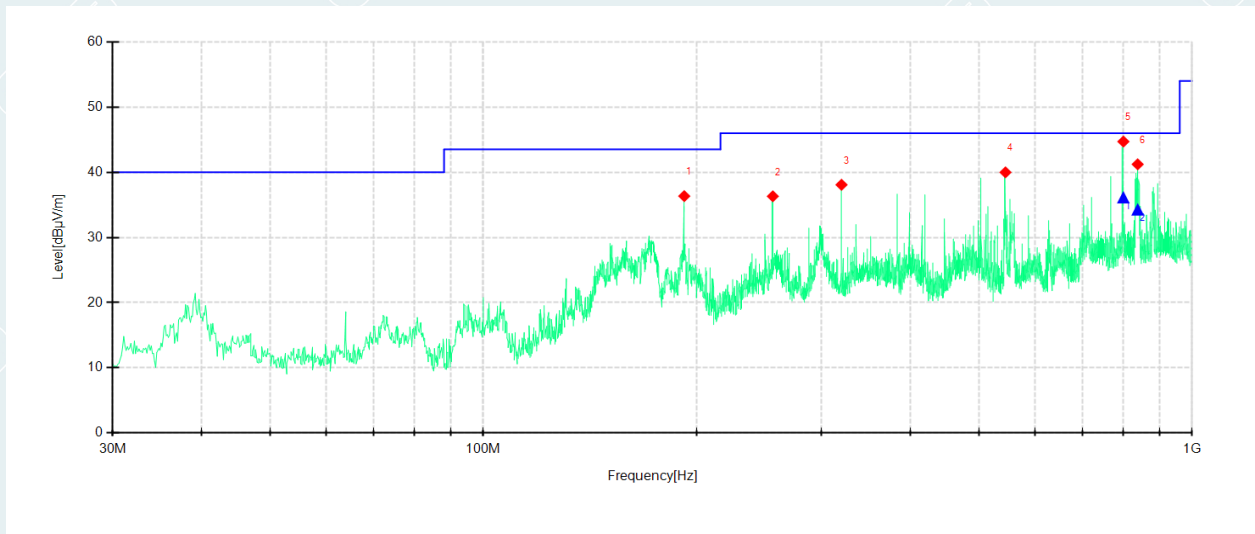
Suspected Data List											
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	192.0103	64.60	33.89	-30.71	43.50	9.61	PK	100	241	Horizontal	PASS
2	256.0383	64.23	35.07	-29.16	46.00	10.93	PK	200	91	Horizontal	PASS
3	320.0663	64.31	37.40	-26.91	46.00	8.60	PK	100	137	Horizontal	PASS
4	419.9887	60.06	36.49	-23.57	46.00	9.51	PK	100	111	Horizontal	PASS
5	504.0255	59.41	38.06	-21.35	46.00	7.94	PK	200	51	Horizontal	PASS
6	832.0478	54.23	38.20	-16.03	46.00	7.80	PK	100	124	Horizontal	PASS



Suspected Data List											
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	192.0103	65.05	34.34	-30.71	43.50	9.16	PK	100	233	Vertical	PASS
2	256.0383	65.27	36.11	-29.16	46.00	9.89	PK	100	91	Vertical	PASS
3	320.0663	64.13	37.22	-26.91	46.00	8.78	PK	100	130	Vertical	PASS
4	504.0255	59.65	38.30	-21.35	46.00	7.70	PK	200	57	Vertical	PASS
5	768.0198	55.21	38.58	-16.63	46.00	7.42	PK	200	136	Vertical	PASS
6	838.3535	54.07	38.12	-15.95	46.00	7.88	PK	100	339	Vertical	PASS

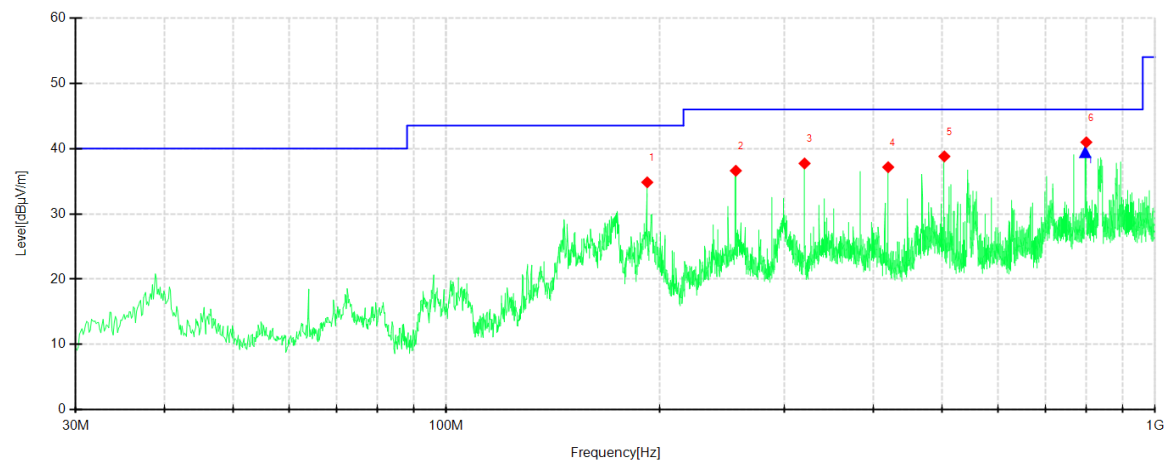
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Project Information			
Application No.:	E202308027685	EUT:	BODY CONTROL MODULE
Model:	BC04	SN:	E202308027685-0001
Mode:	Mode 1	Voltage:	DC 12.5V
Environment:	Temp: 23.1℃; Humi: 45%; 101.0kPa	Engineer:	Zhang zishan
Tested Date:	2023-11-04	Test Antenna	Antenna 3(Driver)



Suspected Data List											
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	192.0103	67.05	36.34	-30.71	43.50	7.16	PK	200	243	Horizontal	PASS
2	256.0383	65.47	36.31	-29.16	46.00	9.69	PK	200	86	Horizontal	PASS
3	320.0663	64.99	38.08	-26.91	46.00	7.92	PK	200	137	Horizontal	PASS
4	545.1344	60.51	39.99	-20.52	46.00	6.01	PK	100	102	Horizontal	PASS
5	799.5487	60.98	44.71	-16.27	46.00	1.29	PK	100	286	Horizontal	PASS
6	837.5047	57.18	41.22	-15.96	46.00	4.78	PK	100	338	Horizontal	PASS

Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit[dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	799.5487	-16.27	52.36	36.09	46.00	9.91	100	286	Horizontal	PASS
2	837.5047	-15.96	50.21	34.25	46.00	11.75	100	338	Horizontal	PASS



Suspected Data List

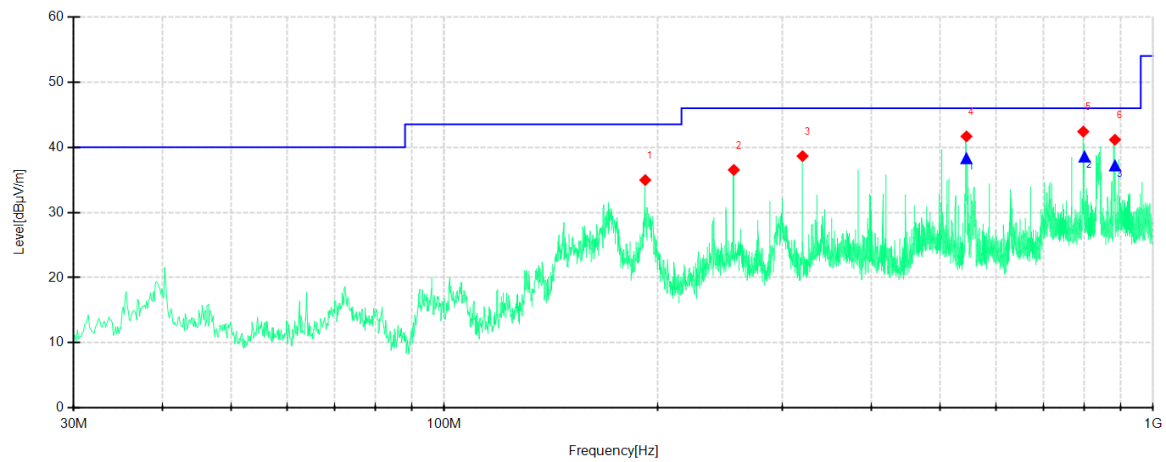
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	192.0103	65.55	34.84	-30.71	43.50	8.66	PK	100	233	Vertical	PASS
2	256.0383	65.77	36.61	-29.16	46.00	9.39	PK	100	91	Vertical	PASS
3	320.0663	64.63	37.72	-26.91	46.00	8.28	PK	100	130	Vertical	PASS
4	419.9887	60.72	37.15	-23.57	46.00	8.85	PK	100	105	Vertical	PASS
5	504.0255	60.15	38.80	-21.35	46.00	7.20	PK	200	57	Vertical	PASS
6	799.4274	57.24	40.97	-16.27	46.00	5.03	PK	200	360	Vertical	PASS

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	796.5353	-16.27	55.69	39.42	46.00	6.58	100	278.2	Vertical	PASS

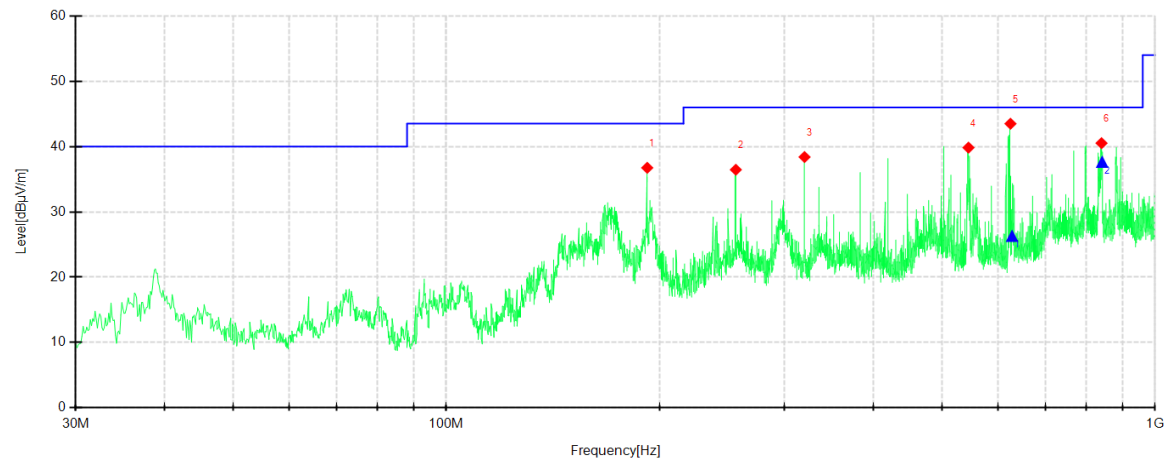
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Project Information			
Application No.:	E202308027685	EUT:	BODY CONTROL MODULE
Model:	BC04	SN:	E202308027685-0001
Mode:	Mode 1	Voltage:	DC 12.5V
Environment:	Temp: 23.1℃; Humi: 45%; 101.0kPa	Engineer:	Zhang zishan
Tested Date:	2023-11-04	Test Antenna	Antenna 4 (Front Passenger)



Suspected Data List											
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	192.0103	65.68	34.97	-30.71	43.50	8.53	PK	100	248	Horizontal	PASS
2	256.0383	65.69	36.53	-29.16	46.00	9.47	PK	200	87	Horizontal	PASS
3	320.0663	65.55	38.64	-26.91	46.00	7.36	PK	100	144	Horizontal	PASS
4	545.1344	62.19	41.67	-20.52	46.00	4.33	PK	200	72	Horizontal	PASS
5	796.6383	58.70	42.40	-16.30	46.00	3.60	PK	200	306	Horizontal	PASS
6	882.9791	56.55	41.15	-15.40	46.00	4.85	PK	200	72	Horizontal	PASS

Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit[dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	544.9766	-20.52	58.80	38.28	46.00	7.72	100	83.9	Horizontal	PASS
2	799.7971	-16.30	54.85	38.55	46.00	7.45	100	286.5	Horizontal	PASS
3	883.0042	-15.40	52.57	37.17	46.00	8.83	100	82.6	Horizontal	PASS



Suspected Data List

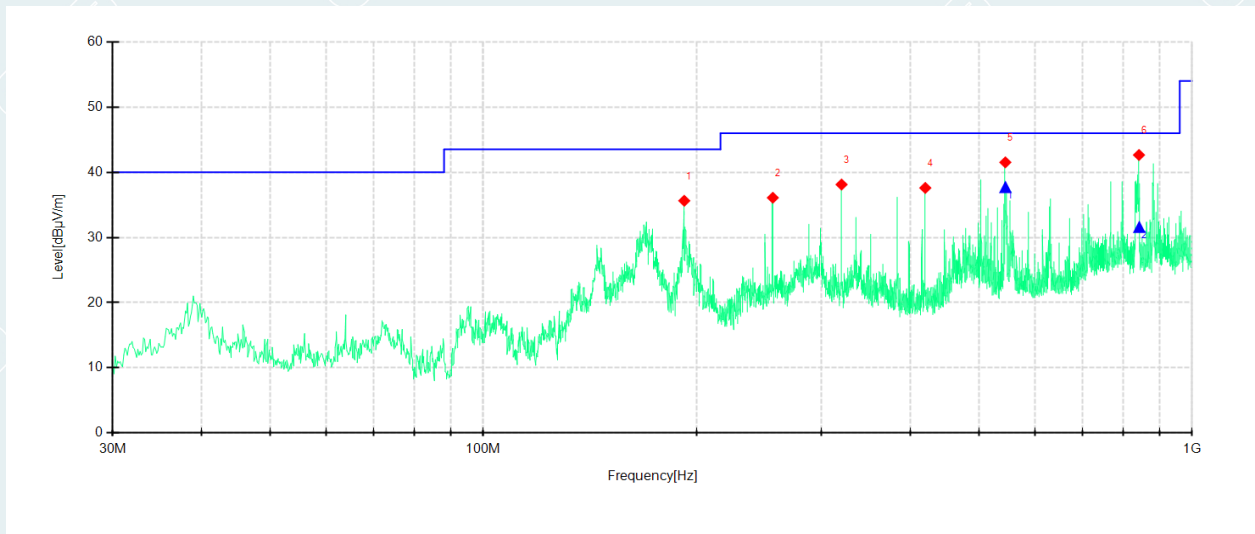
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	192.0103	67.46	36.75	-30.71	43.50	6.75	PK	100	250	Vertical	PASS
2	256.0383	65.62	36.46	-29.16	46.00	9.54	PK	100	80	Vertical	PASS
3	320.0663	65.31	38.40	-26.91	46.00	7.60	PK	100	146	Vertical	PASS
4	545.1344	60.36	39.84	-20.52	46.00	6.16	PK	200	113	Vertical	PASS
5	624.8056	62.30	43.50	-18.80	46.00	2.50	PK	200	348	Vertical	PASS
6	839.8087	56.45	40.52	-15.93	46.00	5.48	PK	100	132	Vertical	PASS

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	627.9251	-18.80	45.08	26.28	46.00	19.72	100	123.7	Vertical	PASS
2	841.3887	-15.93	53.55	37.62	46.00	8.38	100	344.8	Vertical	PASS

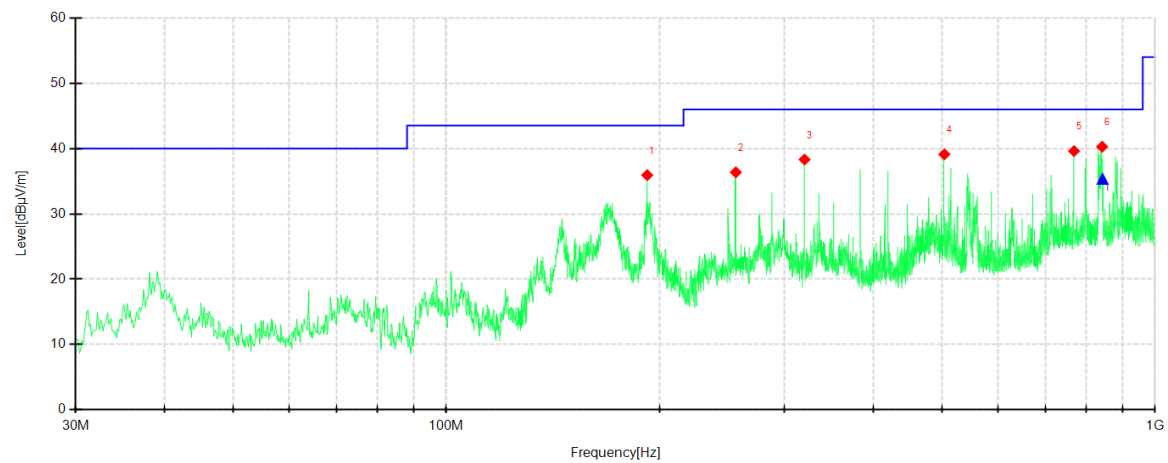
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Project Information			
Application No.:	E202308027685	EUT:	BODY CONTROL MODULE
Model:	BC04	SN:	E202308027685-0001
Mode:	Mode 1	Voltage:	DC 12.5V
Environment:	Temp: 23.1℃; Humi: 45%; 101.0kPa	Engineer:	Zhang zishan
Tested Date:	2023-11-04	Test Antenna	Antenna 5(Rear Bumper)



Suspected Data List											
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	192.0103	66.34	35.63	-30.71	43.50	7.87	PK	100	249	Horizontal	PASS
2	256.0383	65.25	36.09	-29.16	46.00	9.91	PK	100	81	Horizontal	PASS
3	320.0663	65.03	38.12	-26.91	46.00	7.88	PK	100	133	Horizontal	PASS
4	420.1100	61.17	37.60	-23.57	46.00	8.40	PK	200	98	Horizontal	PASS
5	544.8919	62.04	41.52	-20.52	46.00	4.48	PK	100	81	Horizontal	PASS
6	841.0214	58.59	42.65	-15.94	46.00	3.35	PK	100	341	Horizontal	PASS

Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit[dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	545.0259	-20.52	58.20	37.68	46.00	8.32	100	74.3	Horizontal	PASS
2	841.7643	-15.94	47.51	31.57	46.00	14.43	100	22	Horizontal	PASS



Suspected Data List

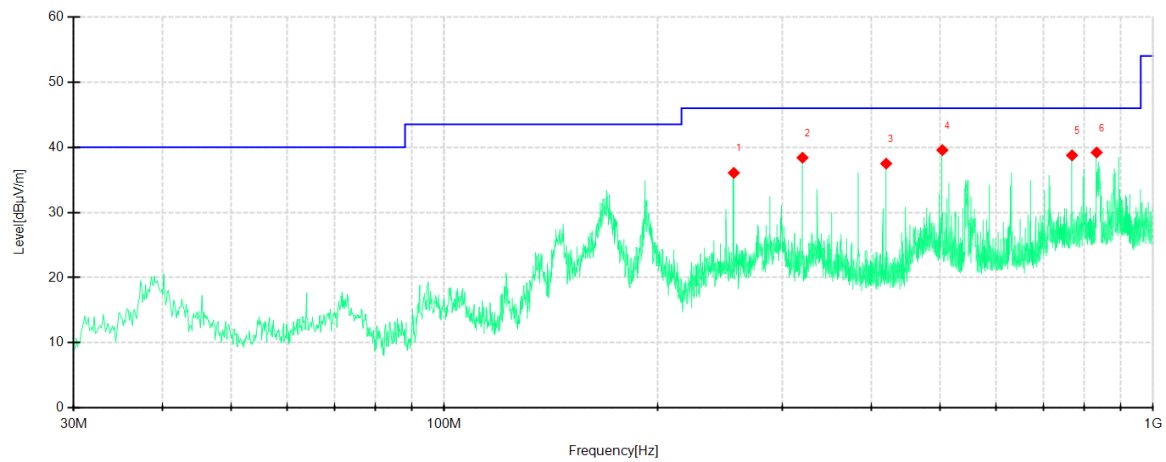
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	192.0103	66.64	35.93	-30.71	43.50	7.57	PK	100	236	Vertical	PASS
2	256.0383	65.53	36.37	-29.16	46.00	9.63	PK	200	99	Vertical	PASS
3	320.0663	65.23	38.32	-26.91	46.00	7.68	PK	200	137	Vertical	PASS
4	504.0255	60.47	39.12	-21.35	46.00	6.88	PK	200	59	Vertical	PASS
5	768.0198	56.25	39.62	-16.63	46.00	6.38	PK	100	130	Vertical	PASS
6	841.5064	56.22	40.28	-15.94	46.00	5.72	PK	100	1	Vertical	PASS

Final Data List

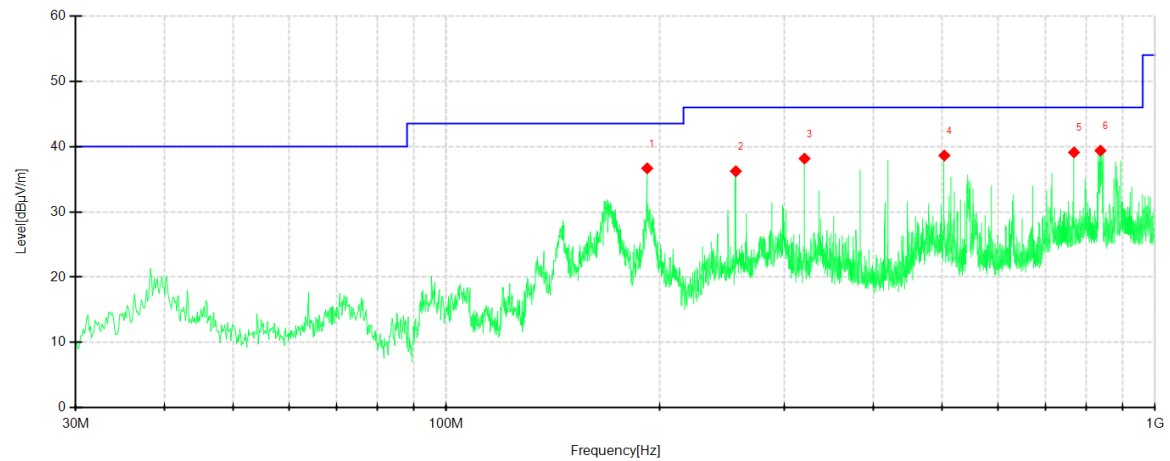
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	842.5419	-15.94	51.28	35.34	46.00	10.66	100	338.2	Vertical	PASS

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Project Information			
Application No.:	E202308027685	EUT:	BODY CONTROL MODULE
Model:	BC04	SN:	E202308027685-0001
Mode:	Mode 1	Voltage:	DC 12.5V
Environment:	Temp: 23.1℃; Humi: 45%; 101.0kPa	Engineer:	Zhang zishan
Tested Date:	2023-11-04	Test Antenna	Antenna 6(Rear Seat)



Suspected Data List											
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	256.0383	65.23	36.07	-29.16	46.00	9.93	PK	200	91	Horizontal	PASS
2	320.0663	65.31	38.40	-26.91	46.00	7.60	PK	100	137	Horizontal	PASS
3	419.9887	61.06	37.49	-23.57	46.00	8.51	PK	100	111	Horizontal	PASS
4	504.0255	60.91	39.56	-21.35	46.00	6.44	PK	200	51	Horizontal	PASS
5	768.0198	55.39	38.76	-16.63	46.00	7.24	PK	100	137	Horizontal	PASS
6	832.0478	55.23	39.20	-16.03	46.00	6.80	PK	100	124	Horizontal	PASS



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	192.0103	67.38	36.67	-30.71	43.50	6.83	PK	100	255	Vertical	PASS
2	256.0383	65.39	36.23	-29.16	46.00	9.77	PK	100	111	Vertical	PASS
3	320.0663	65.07	38.16	-26.91	46.00	7.84	PK	100	136	Vertical	PASS
4	504.0255	59.98	38.63	-21.35	46.00	7.37	PK	100	44	Vertical	PASS
5	768.0198	55.74	39.11	-16.63	46.00	6.89	PK	200	130	Vertical	PASS
6	836.8984	55.35	39.38	-15.97	46.00	6.62	PK	200	2	Vertical	PASS

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6. 20DB BANDWIDTH

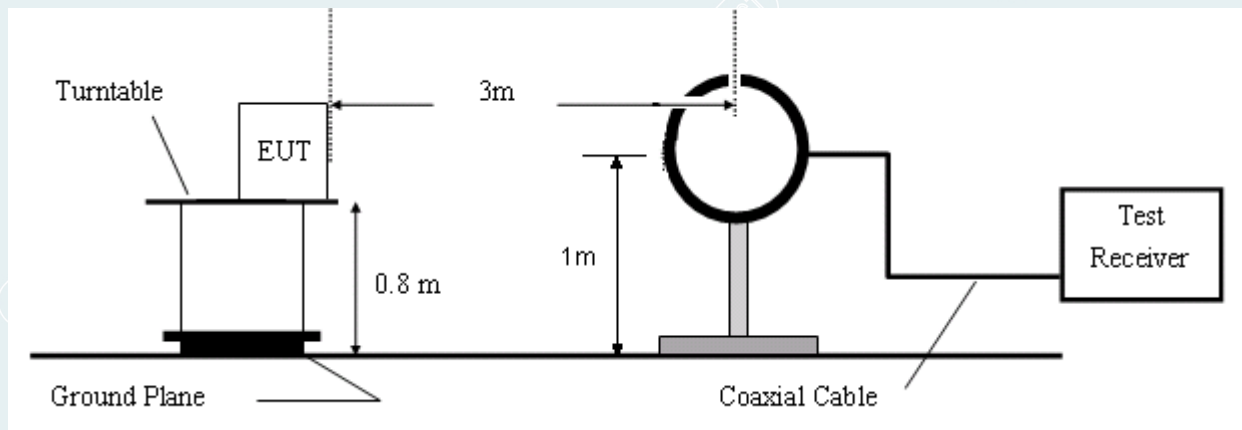
6.1 LIMITS

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

6.2 TEST PROCEDURES

- 1) The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- 2) If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- 3) If the EUT is a floor standing device, it is placed on the ground.
- 4) Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- 5) The measurement distance is 3 meter.
- 6) The EUT was set into operation.
- 7) Adjust the test instrument for the following setting.
RBW: 3Hz.
VBW: 3 times of the RBW.
Detector: Peak.
Sweep time: Auto.
- 8) Allow trace to fully stabilize.

6.3 TEST SETUP

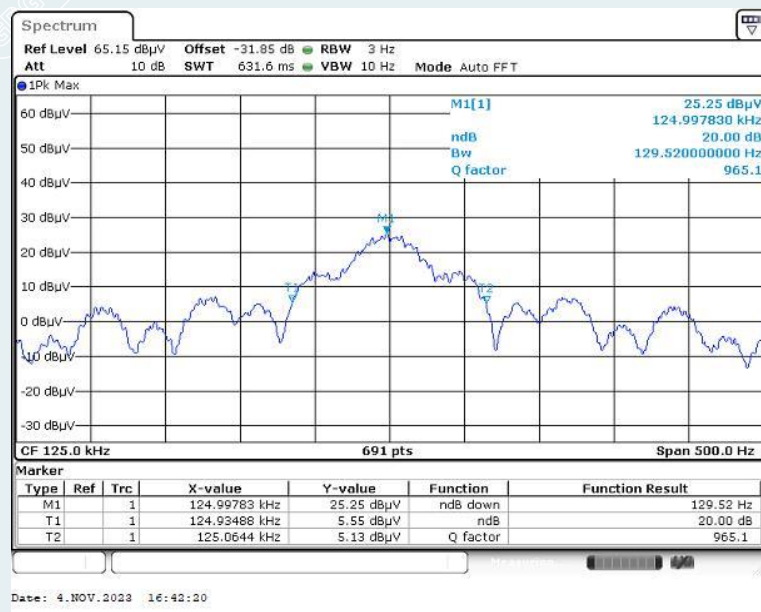


6.4 TEST RESULTS

Project Information			
Application No.:	E202308027685	EUT:	BODY CONTROL MODULE
Model:	BC04	SN:	E202308027685-0001
Environment:	Temp: 23.1℃; Humi: 45%; 101.0kPa	Voltage:	DC 12.5V
Engineer:	Zhang zishan	Test date:	2023-11-04

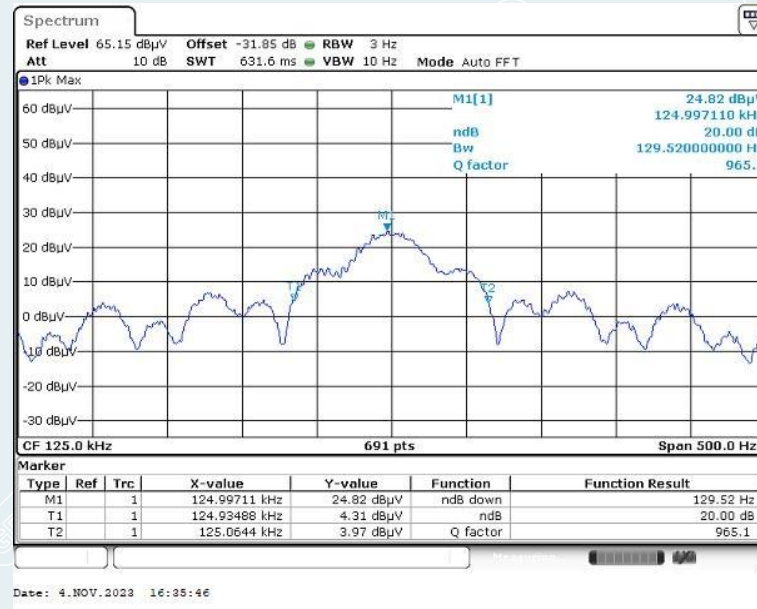
Antenna 1(IMMO):

Frequency (kHz)	20dB Bandwidth (Hz)	limit	Test Result
125	129.52	N/A	Complied



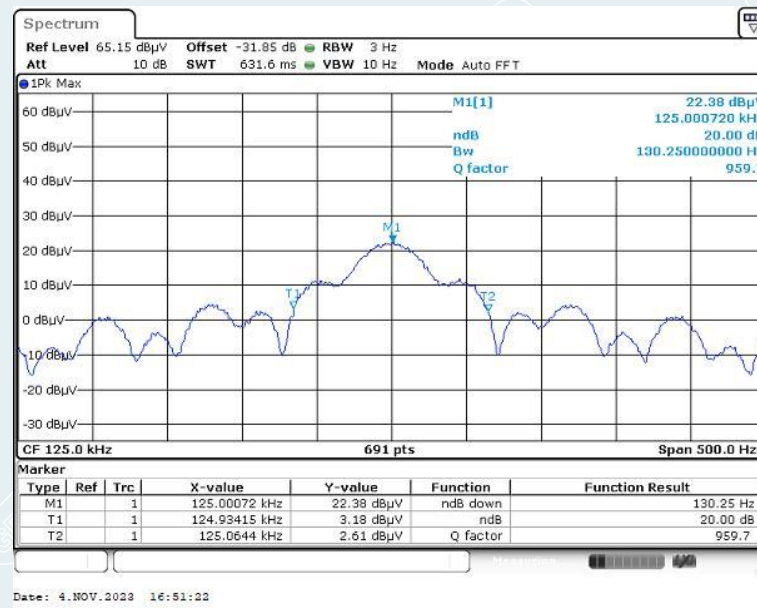
Antenna 2(Facia):

Frequency (kHz)	20dB Bandwidth (Hz)	limit	Test Result
125	129.52	N/A	Complied



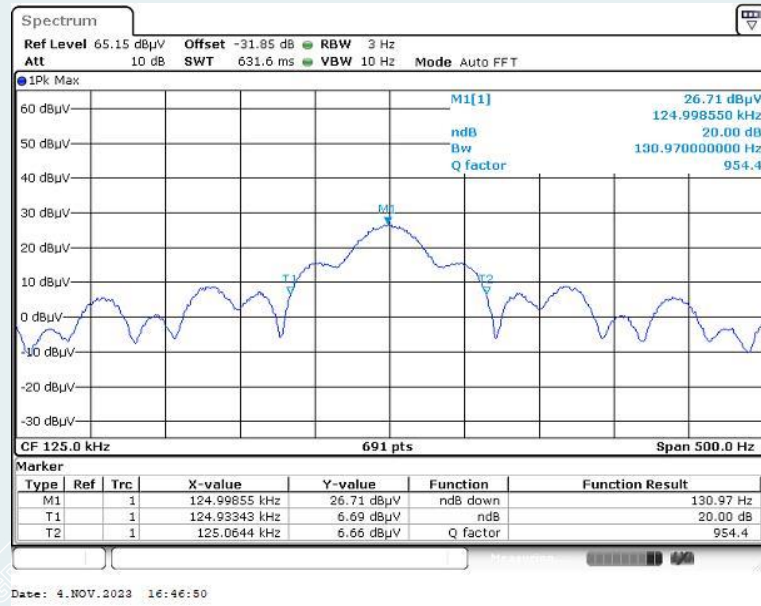
Antenna 3(Driver):

Frequency (kHz)	20dB Bandwidth (Hz)	limit	Test Result
125	130.25	N/A	Complied



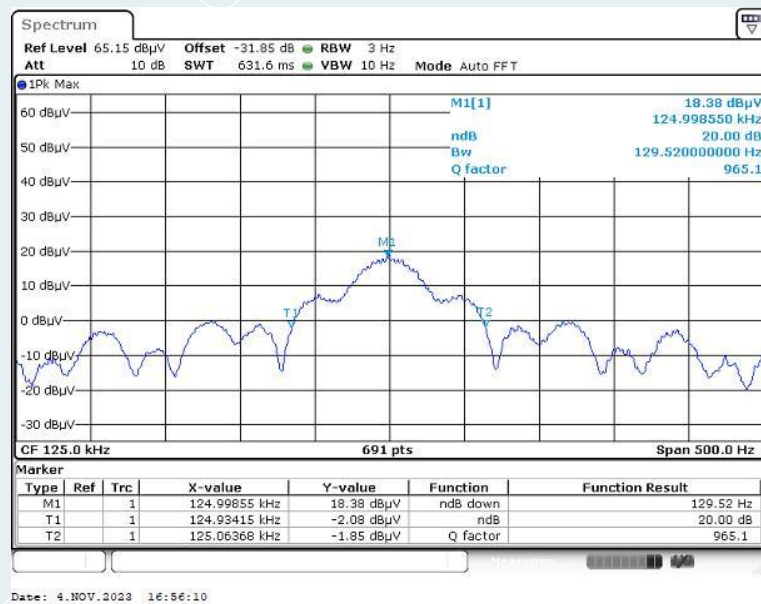
Antenna 4(Front Passenger):

Frequency (kHz)	20dB Bandwidth (Hz)	limit	Test Result
125	130.97	N/A	Complied



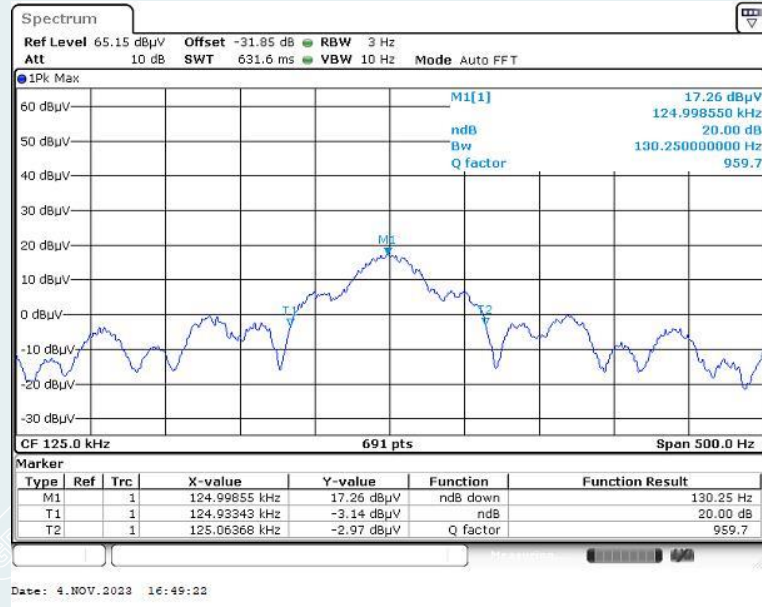
Antenna 5(Rear Bumper):

Frequency (kHz)	20dB Bandwidth (Hz)	limit	Test Result
125	129.52	N/A	Complied



Antenna 6(Rear Seat):

Frequency (kHz)	20dB Bandwidth (Hz)	limit	Test Result
125	130.25	N/A	Complied



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7. PHOTOGRAPHS OF TEST SET-UP

Please refer to the attached document E202308027685-4-test setup photo.

8. PHOTOGRAPHS OF THE EUT

Please refer to the attached document E202308027685-5-EUT photo.

----- **End of Report** -----