

FCC Test Report

Report No.: AGC15705231097FR01

FCC ID : 2AZNY-SEY2102
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Race Car
BRAND NAME : SGILE
MODEL NAME : SEY-2102
APPLICANT : Fujian EastWest Lifewit Technology Co., LTD
DATE OF ISSUE : Nov. 02, 2023
STANDARD(S) : FCC Part 15 Subpart C §15.249
TEST PROCEDURE(S)
REPORT VERSION : V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov. 02, 2023	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Fujian EastWest Lifewit Technology Co., LTD
Address	Rm 1201-1205, Bld 18, 2nd Phase of Innovation Park, no. 7, Wulongjiang Mid-Ave, Fuzhou High-tech Zone, Fuzhou, Fujian Province, 350108, China
Manufacturer	Fujian EastWest Lifewit Technology Co., LTD
Address	Rm 1201-1205, Bld 18, 2nd Phase of Innovation Park, no. 7, Wulongjiang Mid-Ave, Fuzhou High-tech Zone, Fuzhou, Fujian Province, 350108, China
Factory	Fujian EastWest Lifewit Technology Co., LTD
Address	Rm 1201-1205, Bld 18, 2nd Phase of Innovation Park, no. 7, Wulongjiang Mid-Ave, Fuzhou High-tech Zone, Fuzhou, Fujian Province, 350108, China
Product Designation	Race Car
Brand Name	SGILE
Test Model	SEY-2102
Series Model	N/A
Difference Description	N/A
Date of receipt of test item	Oct. 27, 2023
Date of test	Oct. 27, 2023 to Nov. 02, 2023
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-SRD/RF

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By



Sky Zhou
(Project Engineer)

Nov. 02, 2023

Reviewed By



Calvin Liu
(Reviewer)

Nov. 02, 2023

Approved By



Max Zhang
(Authorized Officer)

Nov. 02, 2023

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2408MHz-2478MHz
Maximum field strength	82.71 dB μ V/m(Peak)@3m 65.78 dB μ V/m(Average)@3m
Modulation	GFSK
Number of channels	22 Channels
Antenna Gain	0.59 dBi
Antenna Designation	Wire Antenna
Hardware Version	Receiver: RC-91559R_V1.4 Transmitter: RC-91559T_V1.3
Software Version	Receiver: RC-91559R_V1.0 Transmitter: RC-91559T_V1.0
Power Supply	DC 3V by battery

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2.2. TABLE OF CARRIER FREQUENCY

Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
1	2408	12	2446
2	2411	13	2450
3	2417	14	2453
4	2421	15	2456
5	2425	16	2461
6	2428	17	2463
7	2430	18	2465
8	2434	19	2469
9	2437	20	2473
10	2440	21	2475
11	2443	22	2478

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2.3. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, $U_c = \pm 2.9$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.9$ dB
- Uncertainty of Occupied Channel Bandwidth: $U_c = \pm 2$ %

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX_2408MHz_GFSK
2	Middle channel TX_2443MHz_GFSK
3	High channel TX_2478MHz_GFSK

Note:

1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. Set the EUT into the individual test modes by pressing the EUT buttons.
4. For battery operated equipment, the equipment tests are performed using a new battery.

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure:



5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Race Car	SEY-2102	2AZNY-SEY2102	EUT

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249&15.209	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.215	20dB bandwidth	Compliant
§15.207	Conducted Emission	Not applicable

Note: The conducted emission tests at AC port are not required for devices which only employ battery power for operation.

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI	10096	Feb. 18, 2023	Feb. 17, 2024
Signal Analyzer	Aglient	N9020A	MY52090123	Jun. 01, 2023	May 31, 2024
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Jun. 01, 2023	May 31, 2024
2.4GHz Filter	EM Electronics	N/A	N/A	Mar. 18, 2022	Mar. 19, 2024
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
Horn Antenna	SCHWARZBEC	BBHA9170	768	Sep. 24, 2023	Sep. 23, 2025
Active Loop Antenna (9K-30Mhz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS	3117	00034609	Mar. 23, 2023	Mar. 22, 2024
Preamplifier	ETS	3117-PA	00246148	Aug. 04, 2022	Aug. 03, 2024
Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 05, 2023	Jan. 04, 2024
Test Software	Tonscend	4.0.0.0	N/A	N/A	N/A

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7. RADIATED EMISSION

7.1. TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		μ V/m	dB(μ V)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other:74.0 dB(μ V)/m (Peak) 54.0 dB(μ V)/m (Average)	

Remark: (1) Emission level dB μ V = 20 log Emission level μ V/m.
(2) The smaller limit shall apply at the cross point between two frequency bands.
(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

7.2. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use minimum resolution bandwidth of 1 MHz. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

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The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz RBW 2.4MHz/ VBW 8MHz for Peak, RBW 2.4MHz/3MHz for Average

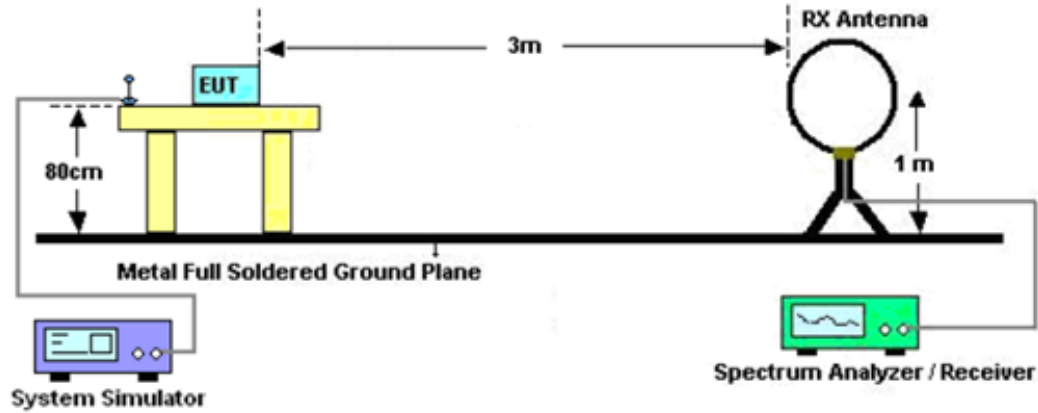
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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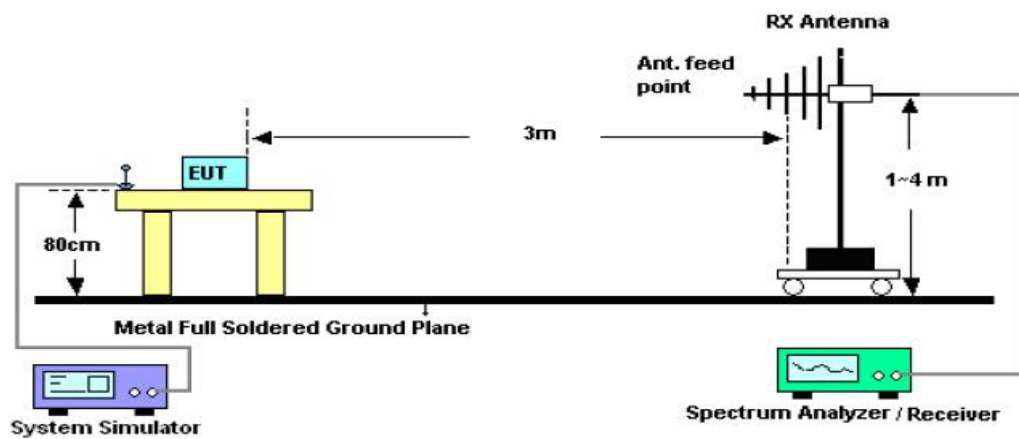
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7.3. TEST SETUP

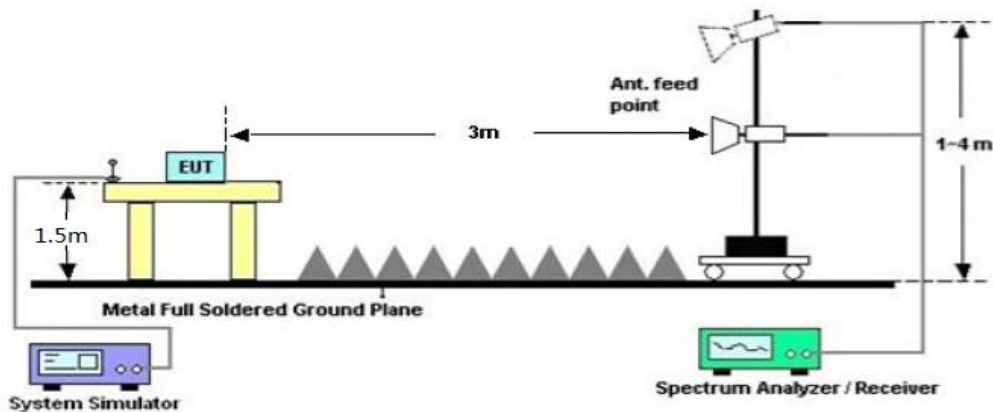
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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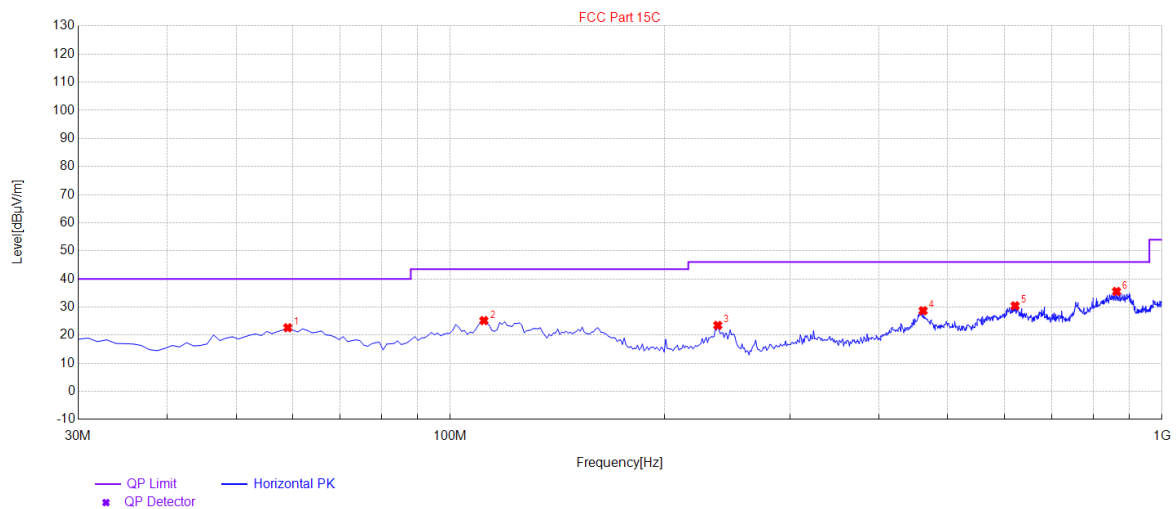
7.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

RADIATED EMISSION 30MHZ- 1GHZ

EUT	Race Car	Model Name	SEY-2102
Temperature	24.5° C	Relative Humidity	58.9%
Pressure	985kPa	Test Voltage	DC 3V by battery
Test Mode	Mode 3	Polarization	Horizontal



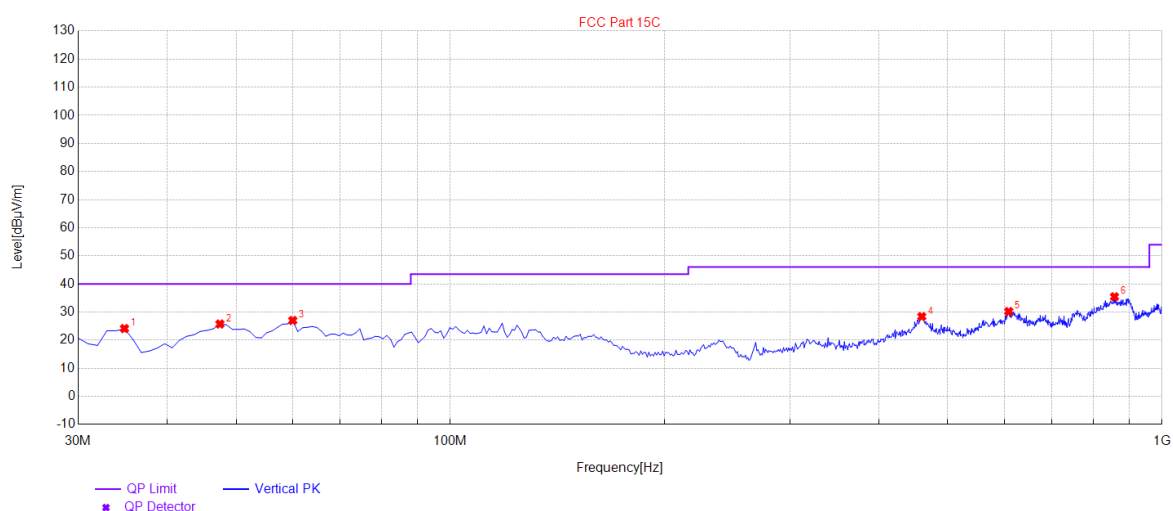
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	59.1	22.65	17.64	40.00	17.35	100	330	Horizontal
2	111.48	25.20	16.41	43.50	18.30	100	270	Horizontal
3	237.58	23.49	15.61	46.00	22.51	100	40	Horizontal
4	461.65	28.70	24.36	46.00	17.30	100	10	Horizontal
5	621.7	30.45	25.68	46.00	15.55	100	190	Horizontal
6	863.23	35.54	29.90	46.00	10.46	100	130	Horizontal

RESULT: PASS

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EUT	Race Car	Model Name	SEY-2102
Temperature	24.5° C	Relative Humidity	58.9%
Pressure	985kPa	Test Voltage	DC 3V by battery
Test Mode	Mode 3	Polarization	Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.85	24.13	11.82	40.00	15.87	100	310	Vertical
2	47.46	25.75	13.96	40.00	14.25	100	210	Vertical
3	60.07	27.00	17.86	40.00	13.00	100	0	Vertical
4	459.71	28.40	24.69	46.00	17.60	100	120	Vertical
5	609.09	30.19	24.70	46.00	15.81	100	160	Vertical
6	857.41	35.45	29.93	46.00	10.55	100	100	Vertical

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss, Margin=Limit-Level.

The “Factor” value can be calculated automatically by software of measurement system.

All test modes had been tested. The mode 3 is the worst case and recorded in the report.

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FIELD STRENGTH OF FUNDAMENTAL

EUT	Race Car	Model Name	SEY-2102
Temperature	25.1 ° C	Relative Humidity	60.6%
Pressure	985kPa	Test Voltage	DC 3V by battery
Test Modulation	GFSK	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2408	33.46	49.05	82.51	114.00	-31.49	peak
2408	15.78	49.05	64.83	94.00	-29.17	AVG
2443	30.11	49.12	79.23	114.00	-34.77	peak
2443	14.53	49.12	63.65	94.00	-30.35	AVG
2478	31.54	49.25	80.79	114.00	-33.21	peak
2478	15.55	49.25	64.80	94.00	-29.20	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Race Car	Model Name	SEY-2102
Temperature	25.1 ° C	Relative Humidity	60.6%
Pressure	985kPa	Test Voltage	DC 3V by battery
Test Modulation	GFSK	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2408	44.37	49.05	82.71	114.00	-31.29	peak
2408	29.51	49.05	65.65	94.00	-28.35	AVG
2443	45.31	49.12	80.14	114.00	-33.86	peak
2443	30.11	49.12	64.45	94.00	-29.55	AVG
2478	40.78	49.25	82.53	114.00	-31.47	peak
2478	30.48	49.25	65.78	94.00	-28.22	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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RADIATED EMISSION ABOVE 1GHZ

EUT	Race Car	Model Name	SEY-2102
Temperature	25.1° C	Relative Humidity	60.6%
Pressure	985kPa	Test Voltage	DC 3V by battery
Test Mode	Mode 1	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4816	50.69	3.76	54.45	74.00	-19.55	peak
4816	38.48	3.76	42.24	54.00	-11.76	AVG
7224	47.37	8.17	55.54	74.00	-18.46	peak
7224	37.85	8.17	46.02	54.00	-7.98	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Race Car	Model Name	SEY-2102
Temperature	25.1° C	Relative Humidity	60.6%
Pressure	985kPa	Test Voltage	DC 3V by battery
Test Mode	Mode 1	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4816	48.46	3.76	52.22	74.00	-21.78	peak
4816	37.23	3.76	40.99	54.00	-13.01	AVG
7224	46.14	8.17	54.31	74.00	-19.69	peak
7224	35.49	8.17	43.66	54.00	-10.34	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Race Car	Model Name	SEY-2102
Temperature	25.1° C	Relative Humidity	60.6%
Pressure	985kPa	Test Voltage	DC 3V by battery
Test Mode	Mode 2	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4886	49.67	3.78	53.45	74.00	-20.55	peak
4886	37.88	3.78	41.66	54.00	-12.34	AVG
7329	46.24	8.23	54.47	74.00	-19.53	peak
7329	35.79	8.23	44.02	54.00	-9.98	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Race Car	Model Name	SEY-2102
Temperature	25.1° C	Relative Humidity	60.6%
Pressure	985kPa	Test Voltage	DC 3V by battery
Test Mode	Mode 2	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4886	47.64	3.78	51.42	74.00	-22.58	peak
4886	36.73	3.78	40.51	54.00	-13.49	AVG
7329	45.22	8.23	53.45	74.00	-20.55	peak
7329	35.18	8.23	43.41	54.00	-10.59	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Race Car	Model Name	SEY-2102
Temperature	25.1° C	Relative Humidity	60.6%
Pressure	985kPa	Test Voltage	DC 3V by battery
Test Mode	Mode 3	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4956	49.92	3.81	53.73	74.00	-20.27	peak
4956	39.71	3.81	43.52	54.00	-10.48	AVG
7434	47.93	8.27	56.20	74.00	-17.80	peak
7434	37.44	8.27	45.71	54.00	-8.29	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Race Car	Model Name	SEY-2102
Temperature	25.1° C	Relative Humidity	60.6%
Pressure	985kPa	Test Voltage	DC 3V by battery
Test Mode	Mode 3	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4956	46.57	3.81	50.38	74.00	-23.62	peak
4956	37.83	3.81	41.64	54.00	-12.36	AVG
7434	44.25	8.27	52.52	74.00	-21.48	peak
7434	35.07	8.27	43.34	54.00	-10.66	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RESULT: PASS

Note: The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Emission Level-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

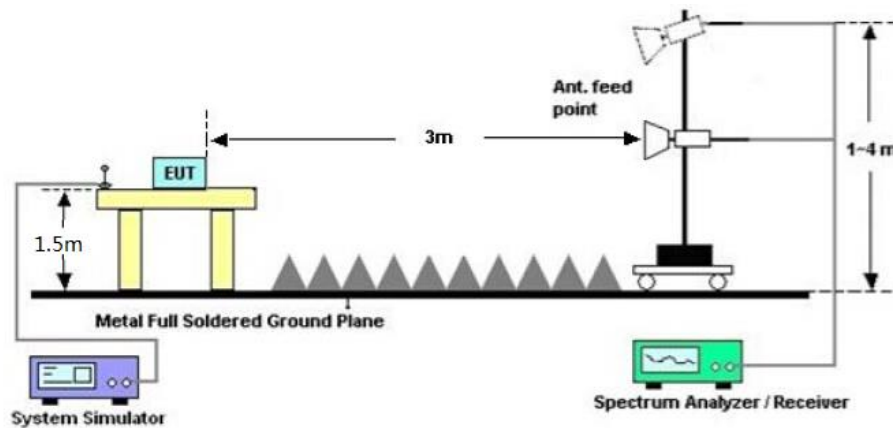
8. BAND EDGE EMISSION

8.1. MEASUREMENT PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO
(b) AVERAGE: RBW=1MHz; VBW=3MHz / Sweep=AUTO
3. Other procedures refer to clause 7.2.

8.2. TEST SETUP

RADIATED EMISSION TEST SETUP



8.3 RADIATED TEST RESULT

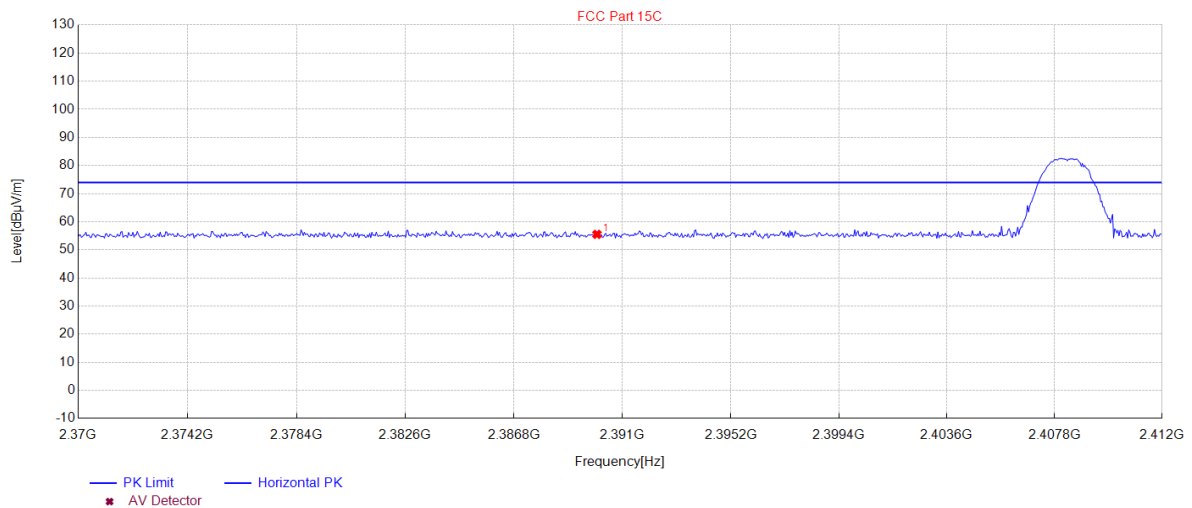
Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

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EUT	Race Car	Model Name	SEY-2102
Temperature	25.1° C	Relative Humidity	60.6%
Pressure	985kPa	Test Voltage	DC 3V by battery
Test Mode	Mode 1	Polarization	Horizontal

Peak Value

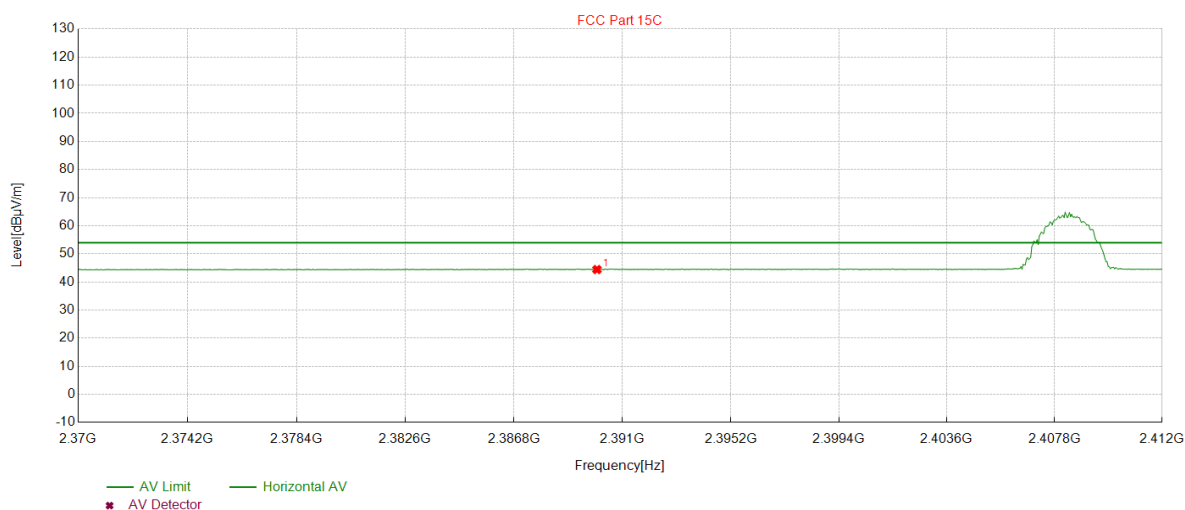


PK Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.012	55.53	34.40	74.00	18.47	150	80	Horizontal

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Average Value



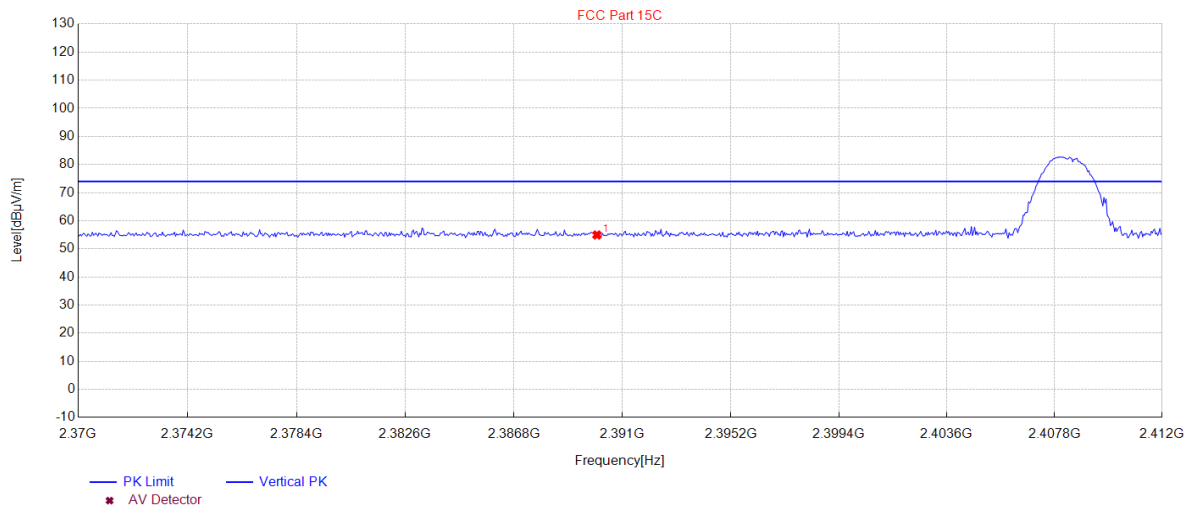
PK Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.012	44.43	34.40	54.00	9.57	150	13	Horizontal

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EUT	Race Car	Model Name	SEY-2102
Temperature	25.1° C	Relative Humidity	60.6%
Pressure	985kPa	Test Voltage	DC 3V by battery
Test Mode	Mode 1	Polarization	Vertical

Peak Value

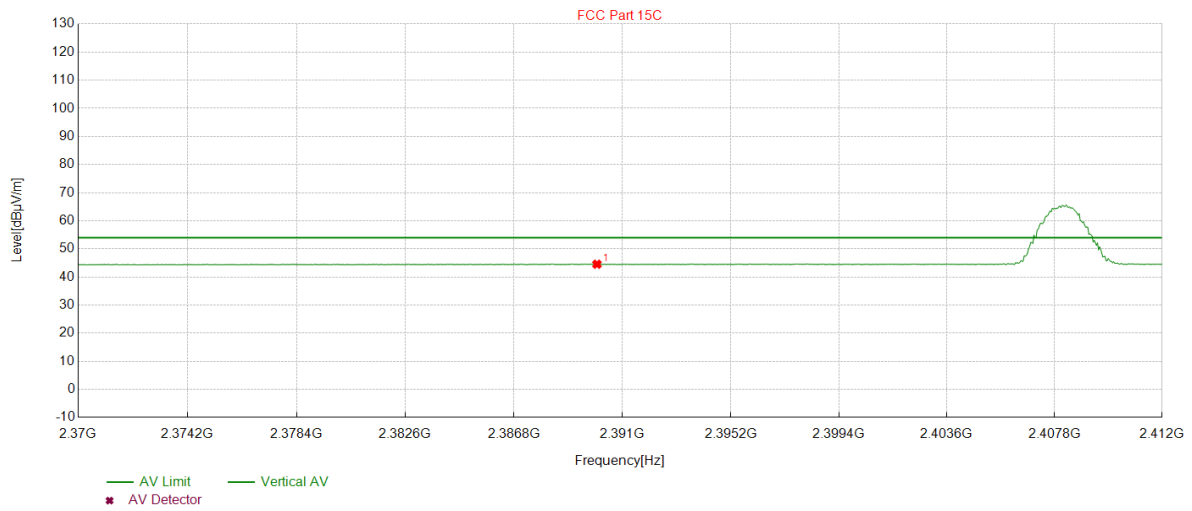


PK Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.012	54.95	34.40	74.00	19.05	150	42	Vertical

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Average Value



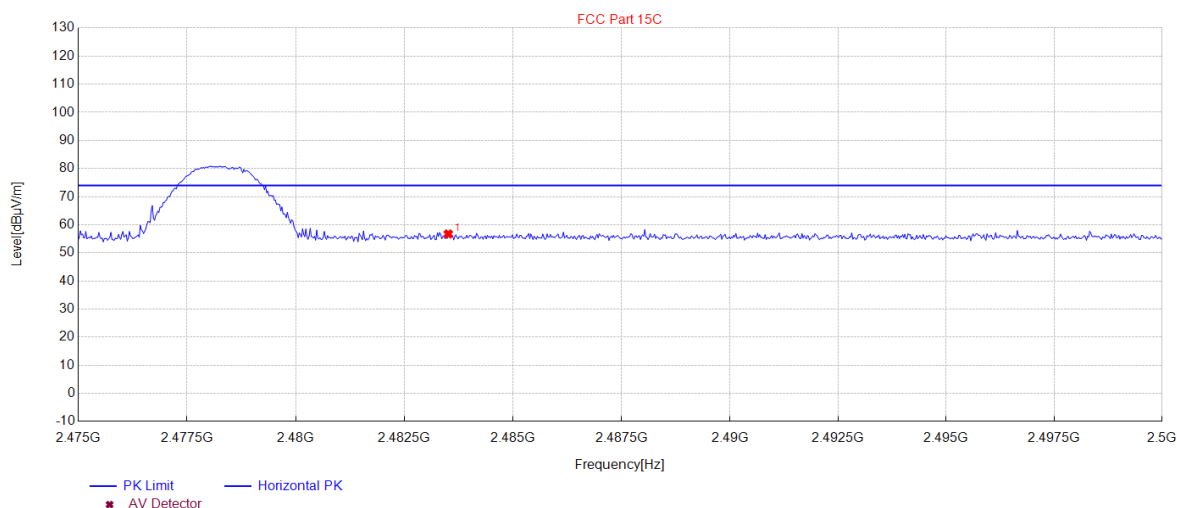
PK Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.012	44.53	34.40	54.00	9.47	150	62	Vertical

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EUT	Race Car	Model Name	SEY-2102
Temperature	25.1 ° C	Relative Humidity	60.6%
Pressure	985kPa	Test Voltage	DC 3V by battery
Test Mode	Mode 3	Polarization	Horizontal

Peak Value

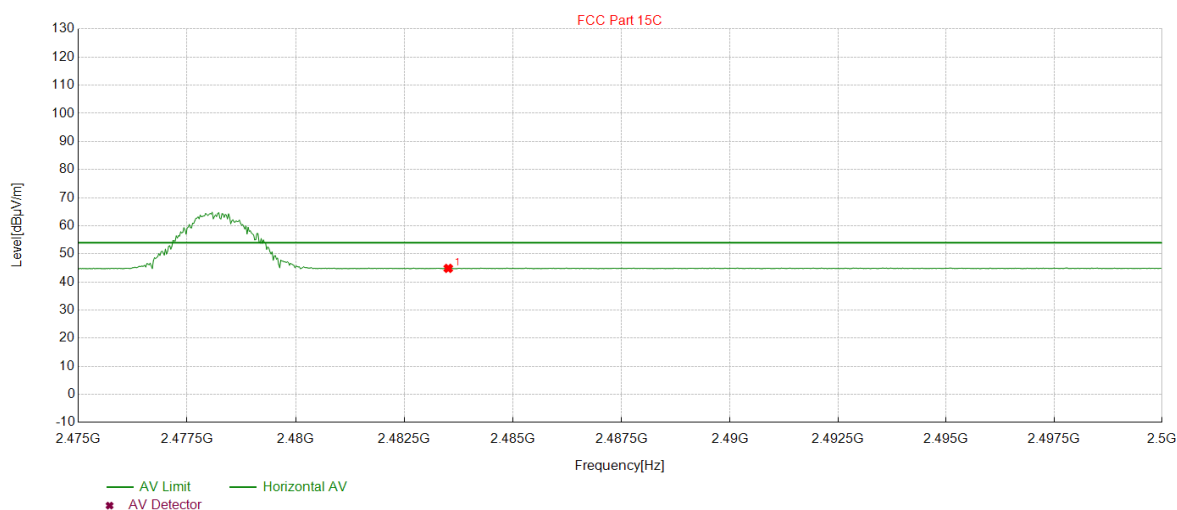


PK Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5085	56.72	34.66	74.00	17.28	150	256	Horizontal

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Average Value



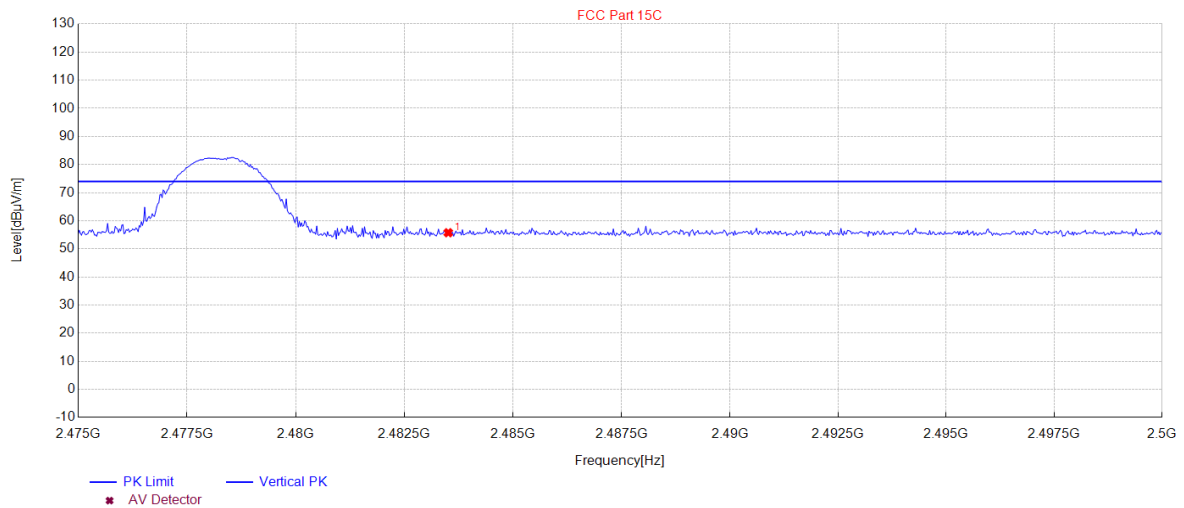
PK Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5085	44.84	34.66	54.00	9.16	150	321	Horizontal

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EUT	Race Car	Model Name	SEY-2102
Temperature	25.1° C	Relative Humidity	60.6%
Pressure	985kPa	Test Voltage	DC 3V by battery
Test Mode	Mode 3	Polarization	Vertical

Peak Value

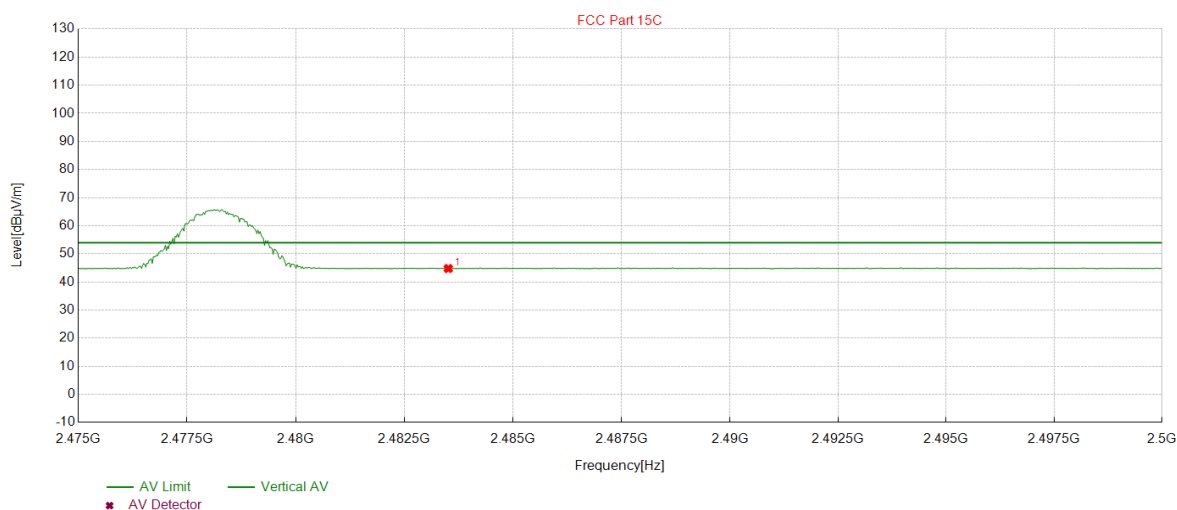


PK Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5085	55.75	34.66	74.00	18.25	150	86	Vertical

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Average Value



PK Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5085	44.79	34.66	54.00	9.21	150	279	Vertical

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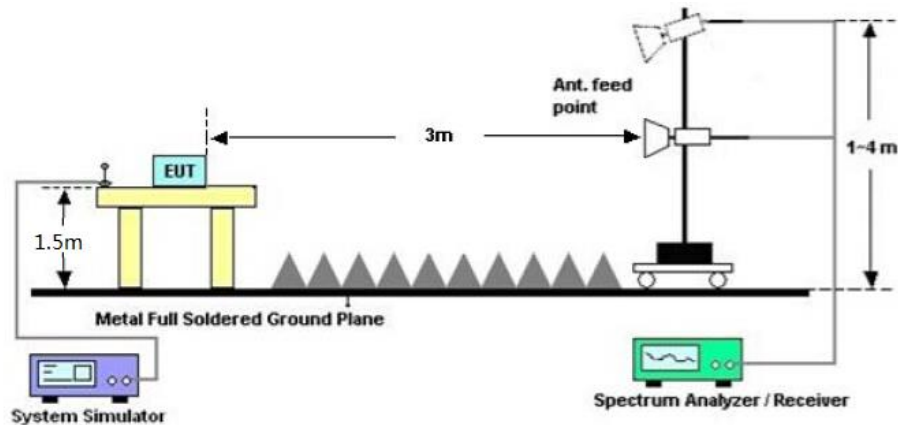
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9. 20DB BANDWIDTH

9.1. MEASUREMENT PROCEDURE

1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
2. Set SPA Centre Frequency = Operation Frequency, RBW= 30kHz, VBW $\geq$ 1 $\times$ RBW.
3. Set SPA Trace 1 Max hold, then View.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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9.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH
TEST MODULATION	GFSK

Test Channel (MHz)	20DB BANDWIDTH (MHz)	99% BANDWIDTH (MHz)	Criteria
2408	1.146	1.0968	PASS
2443	1.148	1.1112	PASS
2478	1.141	1.1131	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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10. FCC LINE CONDUCTED EMISSION TEST

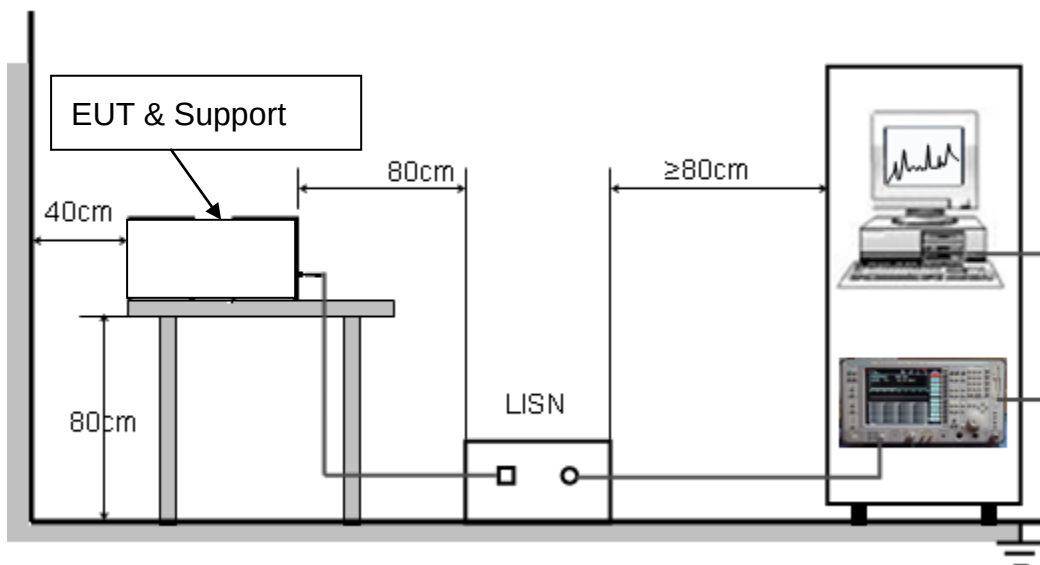
10.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note: 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

10.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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10.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received AC120V/60Hz power from a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

10.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

10.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Note: The conducted emission tests at AC port are not required for devices which only employ battery power for operation.

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC15705231097AP02

APPENDIX B: PHOTOGRAPHS OF THE EUT

Refer to the Report No.: AGC15705231097AP03

-----END OF REPORT-----

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