



FCC RADIO TEST REPORT

FCC ID: RJE-ICARPLAY

Product : FM transmitter

Trade Name : Monster

Model Name : iCarplay300

Serial Model : N/A

Report No. : NTEK-2016NT09229095F

Prepared for

Monster, LLC.

3837 Bay Lake Trail, Suite 103, North Las Vegas, NV 89030.

Prepared by

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TEST RESULT CERTIFICATION**Applicant's name** : Monster, LLC.

Address : 3837 Bay Lake Trail, Suite 103, North Las Vegas, NV 89030.

Manufacture's Name : Dayton Electronics Co.,Ltd.

Address : No.37, Xintang Village, Guanlan Town, Shenzhen China.

Product description

Product name : FM transmitter

Model and/or type reference : iCarplay300

Serial Model : N/A

Rating(s) : DC 12.0V

Standards : FCC 47 CFR Part 15, Subpart C §15.239:2016

Test procedure ANSI C63.10-2013

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test :

Date (s) of performance of tests : 22 Sep. 2016 ~ 18 Oct. 2016

Date of Issue : 18 Oct. 2016

Test Result : **Pass**

Testing Engineer : Eileen Liu.
(Eileen Liu)

Technical Manager : Jason Chen
(Jason Chen)

Authorized Signatory : Sam. Chen
(Sam Chen)

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.239)			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	N/A	
15.203	Antenna Requirement	Pass	
15.239	Radiated Spurious Emission	Pass	
15.239	Occupied Bandwidth	Pass	
15.205	Band Edge Emission	Pass	

1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC FRN Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %** .

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	FM transmitter	
Trade Name	Monster	
Model Name	iCarplay300	
Serial Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a FM transmitter	
	Product Type	Low Power Communication Device Transmitter
	Operation Frequency:	88-108MHz
	Modulation Type:	FM
	Number Of Channel	199CH.
	Antenna Designation:	PCB antenna
	Antenna Gain(Peak)	1 dBi
	Output field strength:	45.29 dBuV/m (AV Max.)
Channel List	N/A	
Adapter	N/A	
Battery	N/A	
Hard Ware Version	HZY_MP1619 V2.2	
Soft Ware Version	HZY_FM_16527_V03	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	88.1MHz
Mode 2	98.1MHz
Mode 3	107.9MHz

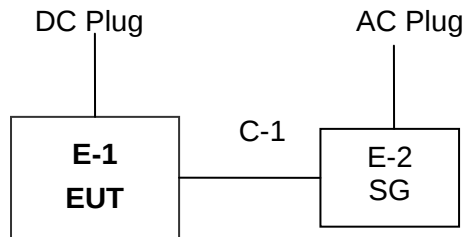
For Conducted Emission	
Final Test Mode	Description
Mode 1	88.1MHz
Mode 2	98.1MHz
Mode 3	107.9MHz

For Radiated Emission	
Final Test Mode	Description
Mode 1	88.1MHz
Mode 2	98.1MHz
Mode 3	107.9MHz

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The EUT use new battery.
- (3) During testing, the EUT was actively playing music set to its maximum audio volume in order to generate the worst case emissions (e.g. to generate the maximum bandwidth during bandwidth test). No test tones were used for testing. The tuning range of the EUT was manually verified and the conclusion is that it only works at selected channels within 88.1-107.9MHz, not below and not above this range.

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	FM transmitter	Monster	iCarplay300	N/A	EUT
E-2	SG	HP	8920B	US39225517	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	Audio Cable	NO	NO	1.2m

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS**Radiation Test equipment**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	E4407B	160400005	Jul. 06. 2017
2	Test Receiver	R&S	ESPI	101318	Jul. 06. 2017
3	Bilog Antenna	TESEQ	CBL6111D	31216	Jul. 06. 2017
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	Jul. 06. 2017
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	Jul. 06. 2017
6	Horn Antenna	EM	EM-AH-10180	2011071402	Jul. 06. 2017
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	Jul. 06. 2017
8	Amplifier	EM	EM-30180	060538	Jul. 06. 2017
9	Loop Antenna	ARA	PLA-1030/B	1029	Jul. 06. 2017
10	Power Meter	R&S	NRVS	100696	Jul. 06. 2017

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Test Receiver	R&S	ESCI	101160	Jul. 06. 2017
2	LISN	R&S	ENV216	101313	Jul. 06. 2017
3	LISN	EMCO	3816/2	00042990	Jul. 06. 2017
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	Jul. 06. 2017
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	Jul. 06. 2017
6	Absorbing clamp	R&S	MOS-21	100423	Jul. 06. 2017

3. ANTENNA REQUIREMENT

3.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

3.2 EUT ANTENNA

The EUT antenna is permanent attached Antenna. It comply with the standard requirement.

3.3 CONDUCTED EMISSION MEASUREMENT

3.3.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5			66 - 56 *	56 - 46 *	CISPR
0.50 -5.0			56.00	46.00	CISPR
5.0 -30.0			60.00	50.00	CISPR

0.15 -0.5			66 - 56 *	56 - 46 *	LP002.
0.50 -5.0			56.00	46.00	LP002.
5.0 -30.0			60.00	50.00	LP002.

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

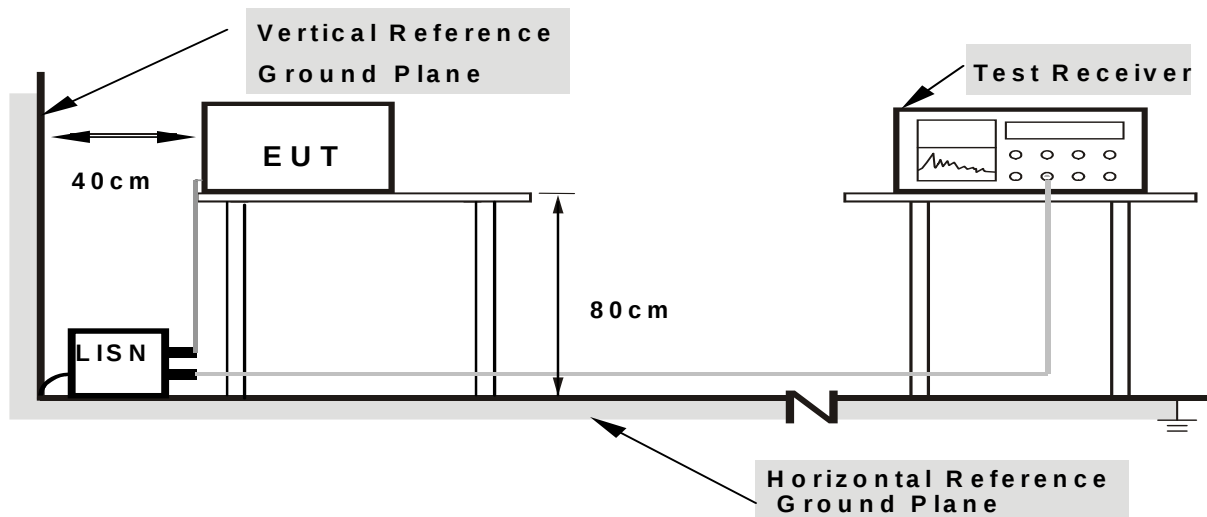
3.3.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3.3 DEVIATION FROM TEST STANDARD

No deviation

3.3.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.2.5 TEST RESULT

EUT :	FM transmitter	Model Name. :	iCarplay300
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N/A
Test Voltage :	N/A	Test Mode :	N/A

3.4 RADIATED EMISSION MEASUREMENT

3.4.1 Radiated Emission Limits (FCC 15.209)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.239)

Frequency of Emission (MHz)	Field Strength of fundamental (dBμV/m)	
88-108	Peak	Average
	68	48

Notes:

- (1) Fcc part15.239 (b) The field strength of any emissions within the permitted 200 kHz band shall not exceed 250 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in Section 15.35 for limiting peak emissions apply.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak

Receiver Parameter	Setting
Attenuation	Auto
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

3.4.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

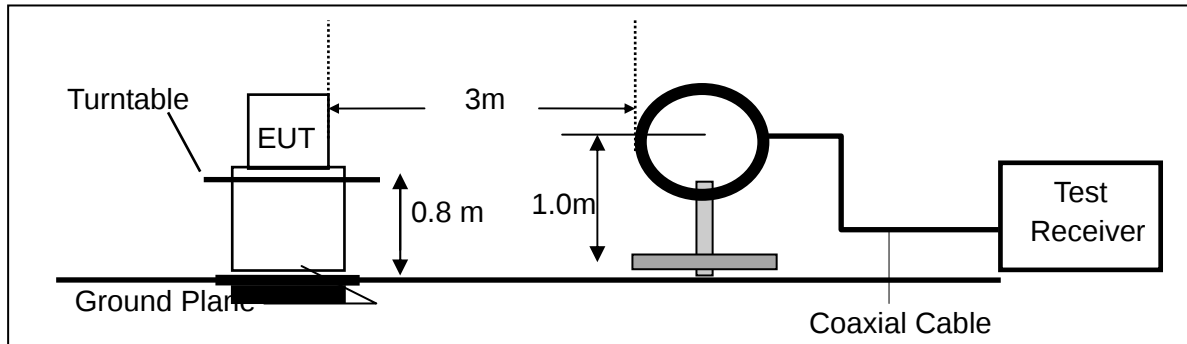
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.4.3 DEVIATION FROM TEST STANDARD

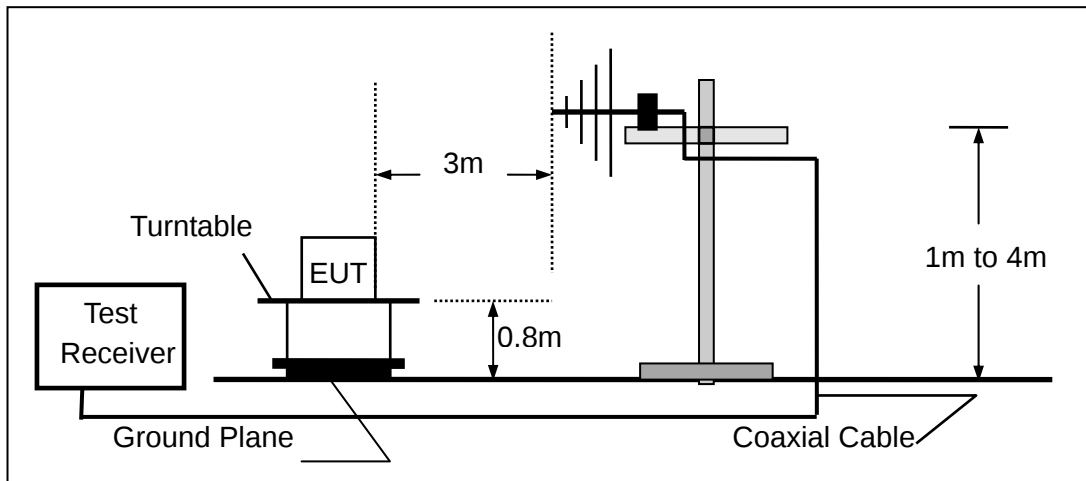
No deviation

3.4.4 TEST SETUP

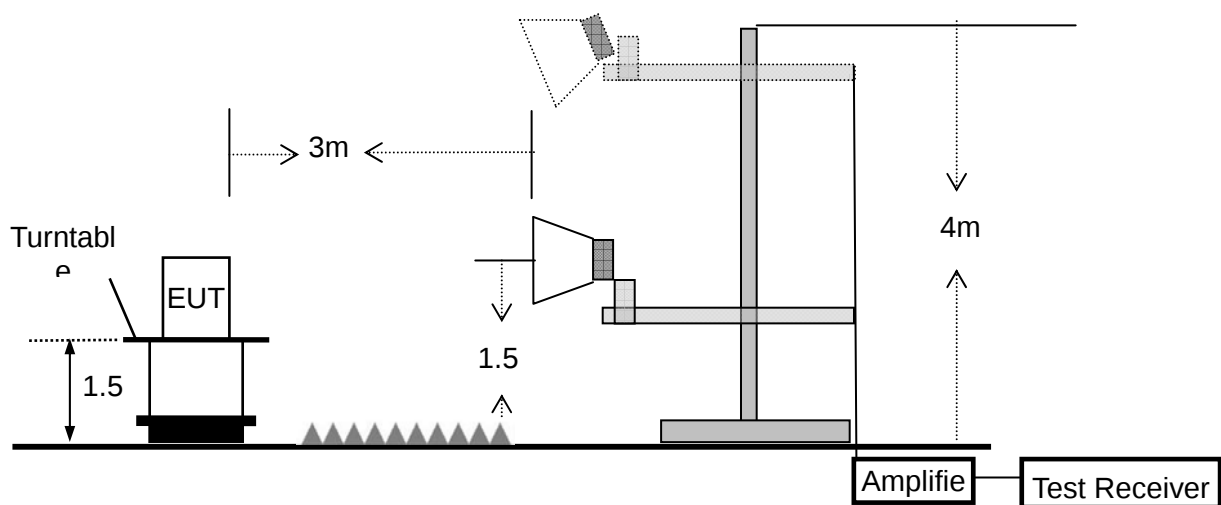
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



3.4.5 TEST RESULTS (BLOW 30MHz)

EUT :	FM transmitter	Model Name. :	iCarplay300
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.0V
Test Mode :	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $20 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

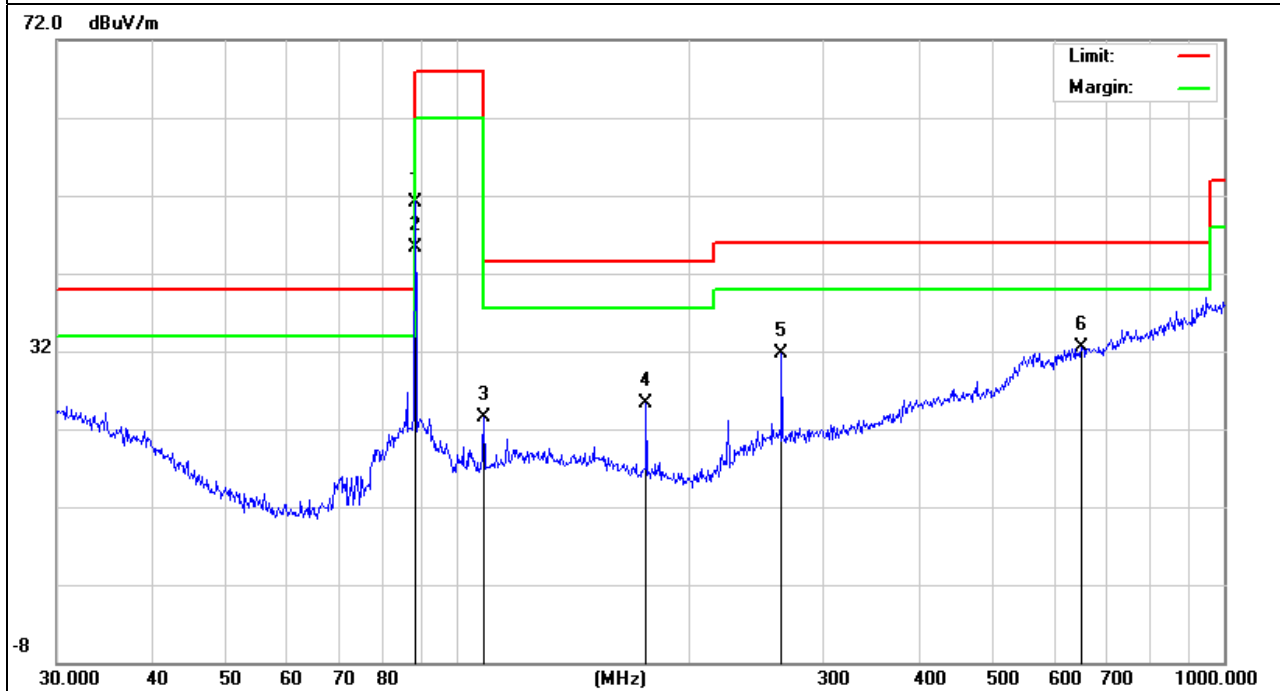
3.4.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

EUT :	FM transmitter	Model Name :	iCarplay300
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.0V
Test Mode :	88.1MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
88.1	41.01	10.19	51.2	68	-16.8	peak
88.1	35.10	10.19	45.29	48	-2.71	AVG
108.2667	11.1	12.47	23.57	43.5	-19.93	QP
176.2684	13.69	11.55	25.24	43.5	-18.26	QP
264.7456	16.07	15.7	31.77	46	-14.23	QP
651.9415	6.98	25.49	32.47	46	-13.53	QP

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

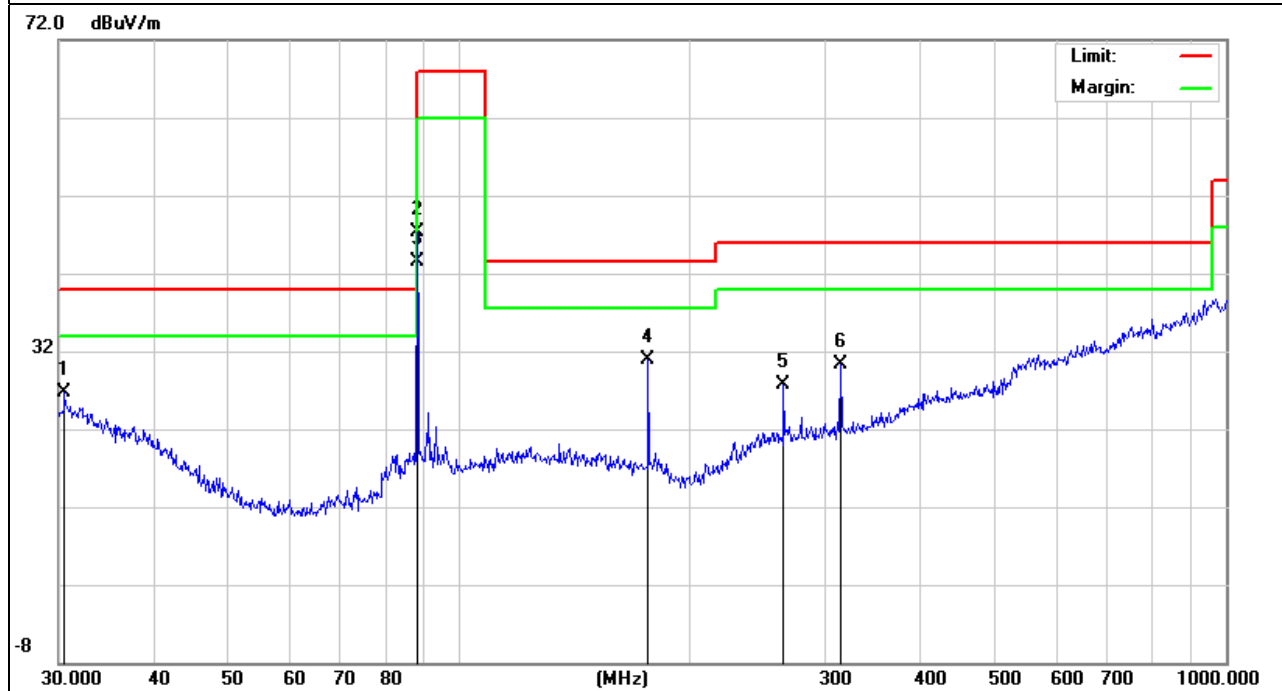


EUT :	FM transmitter	Model Name :	iCarplay300
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.0V
Test Mode :	88.1MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
30.5304	7.03	19.59	26.62	40	-13.38	QP
88.1	37.2	10.19	47.39	68	-20.61	peak
88.1	33.40	10.19	43.59	48	-4.41	AVG
176.2684	19.44	11.55	30.99	43.5	-12.51	QP
264.7456	12	15.7	27.7	46	-18.3	QP
314.3765	13.67	16.71	30.38	46	-15.62	QP

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

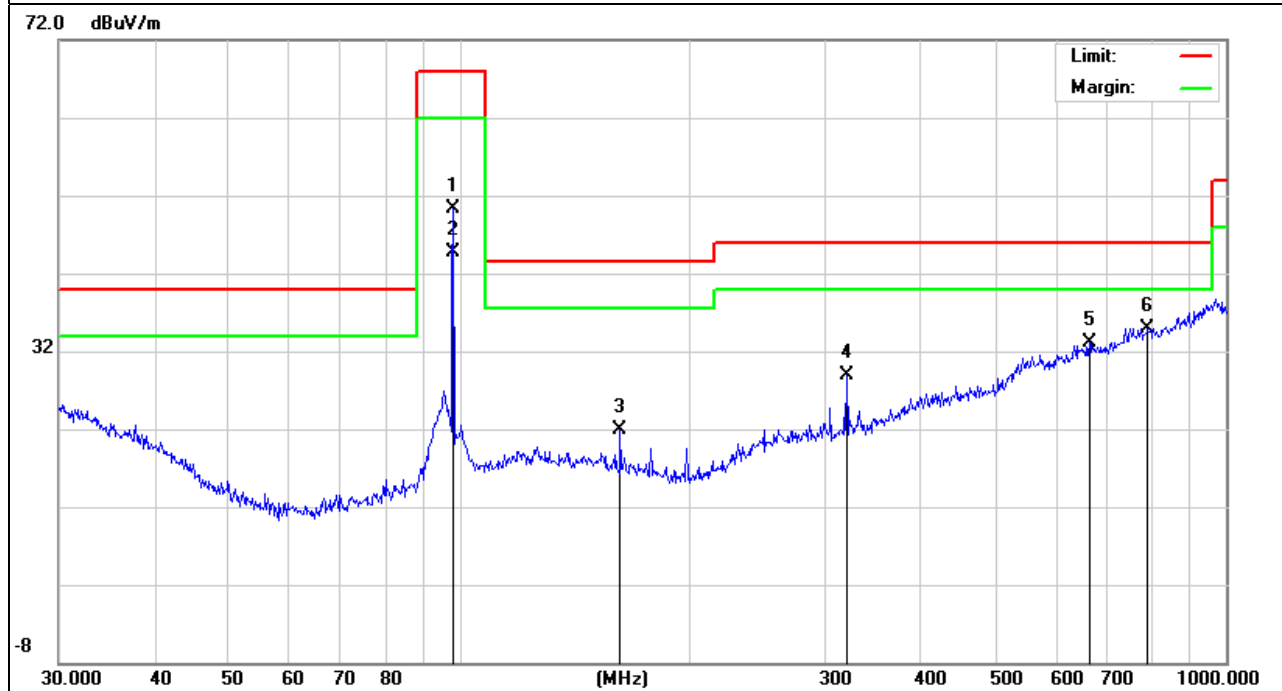


EUT :	FM transmitter	Model Name :	iCarplay300
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.0V
Test Mode :	98.1MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
98.1	38.61	11.73	50.34	68	-17.66	peak
98.1	32.90	11.73	44.63	48	-3.37	AVG
162.0414	9.87	12.05	21.92	43.5	-21.58	QP
319.937	11.97	16.89	28.86	46	-17.14	QP
663.4728	7.52	25.49	33.01	46	-12.99	QP
790.6186	7.02	27.96	34.98	46	-11.02	QP

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

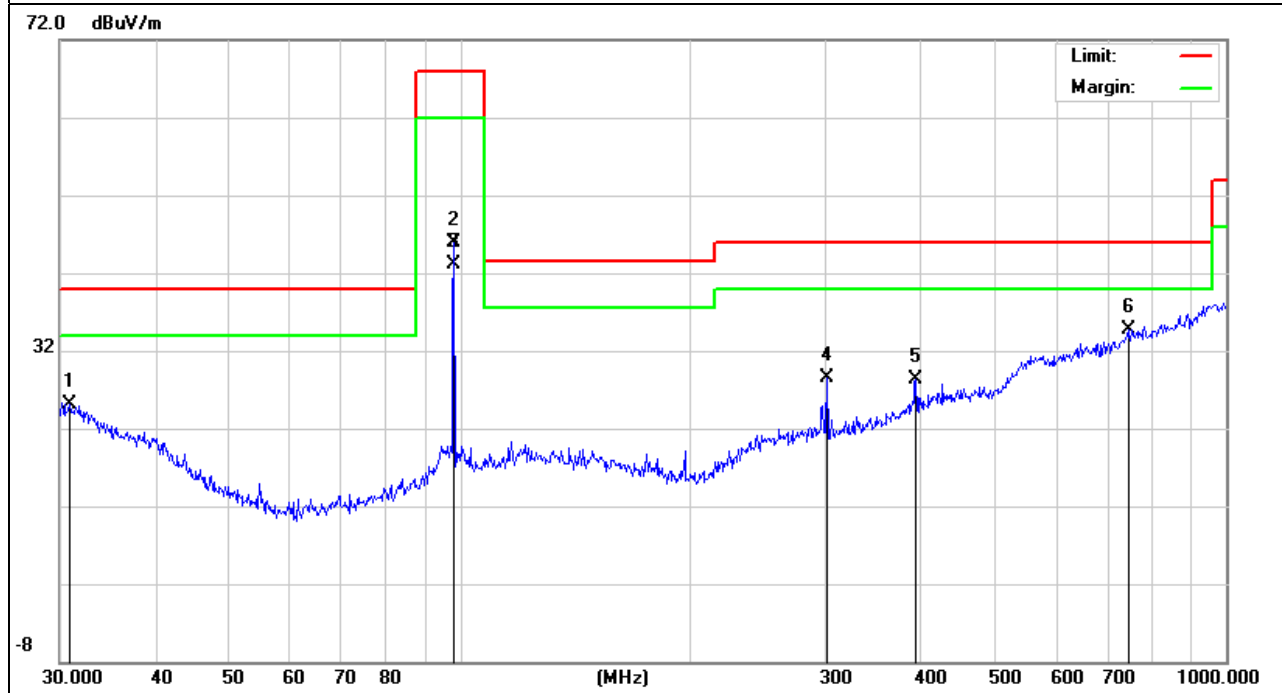


EUT :	FM transmitter	Model Name :	iCarplay300
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.0V
Test Mode :	98.1MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
30.8535	5.73	19.43	25.16	40	-14.84	QP
98.1	34.18	11.73	45.91	68	-22.09	peak
98.1	31.47	11.73	43.2	48	-4.80	AVG
301.4224	12.18	16.32	28.5	46	-17.5	QP
393.4723	8.46	19.91	28.37	46	-17.63	QP
744.8659	7.28	27.45	34.73	46	-11.27	QP

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

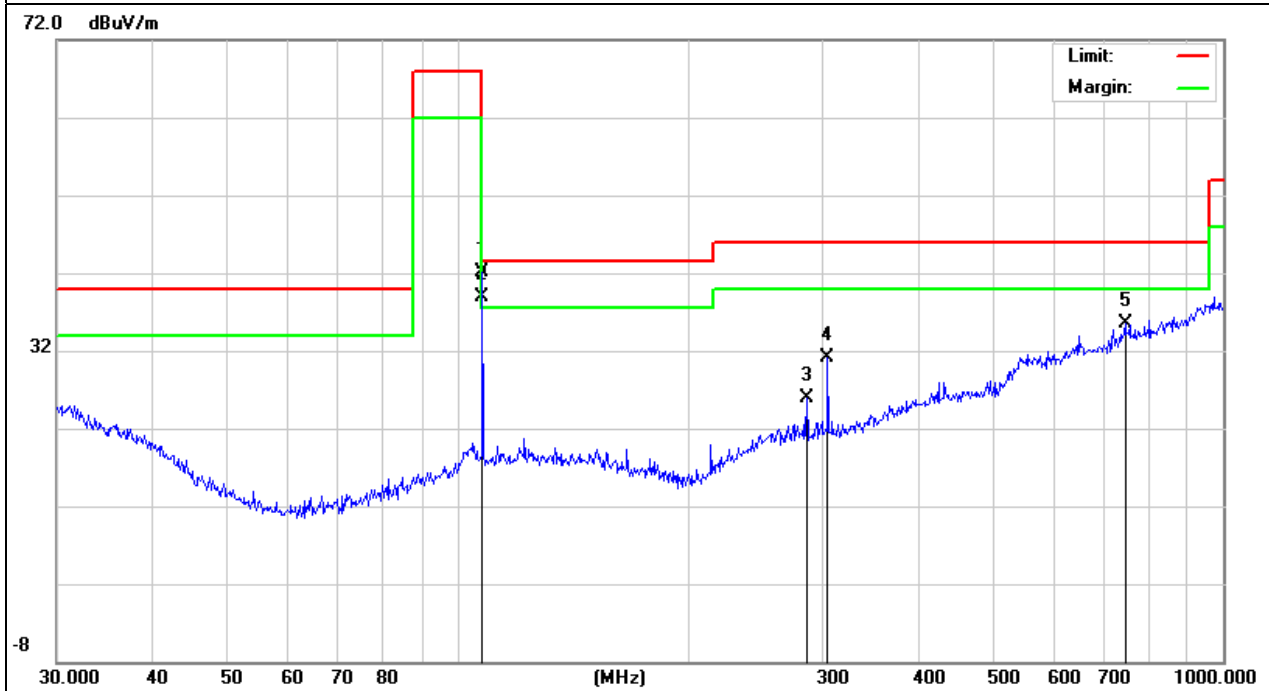


EUT :	FM transmitter	Model Name :	iCarplay300
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.0V
Test Mode :	107.9MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
107.9	29.61	12.44	42.05	68	-25.95	peak
107.9	26.46	12.44	38.9	48	-9.10	AVG
285.9778	9.96	15.85	25.81	46	-20.19	QP
304.6099	14.68	16.42	31.1	46	-14.9	QP
744.8659	8.12	27.45	35.57	46	-10.43	QP

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

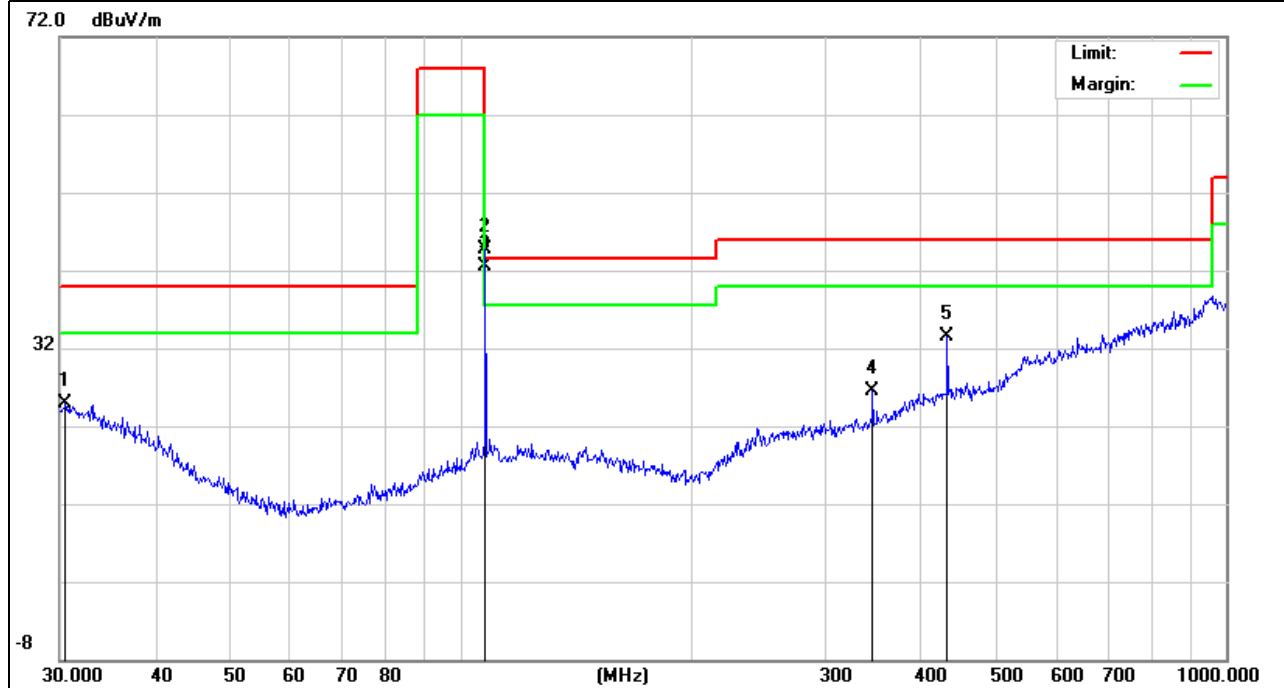


EUT :	FM transmitter	Model Name :	iCarplay300
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.0V
Test Mode :	107.9MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
30.5304	5.3	19.59	24.89	40	-15.11	QP
107.9	32.19	12.44	44.63	68	-23.37	peak
107.9	30.06	12.44	42.5	48	-5.50	AVG
345.5951	8.85	17.67	26.52	46	-19.48	QP
432.5457	12.82	20.67	33.49	46	-12.51	QP

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



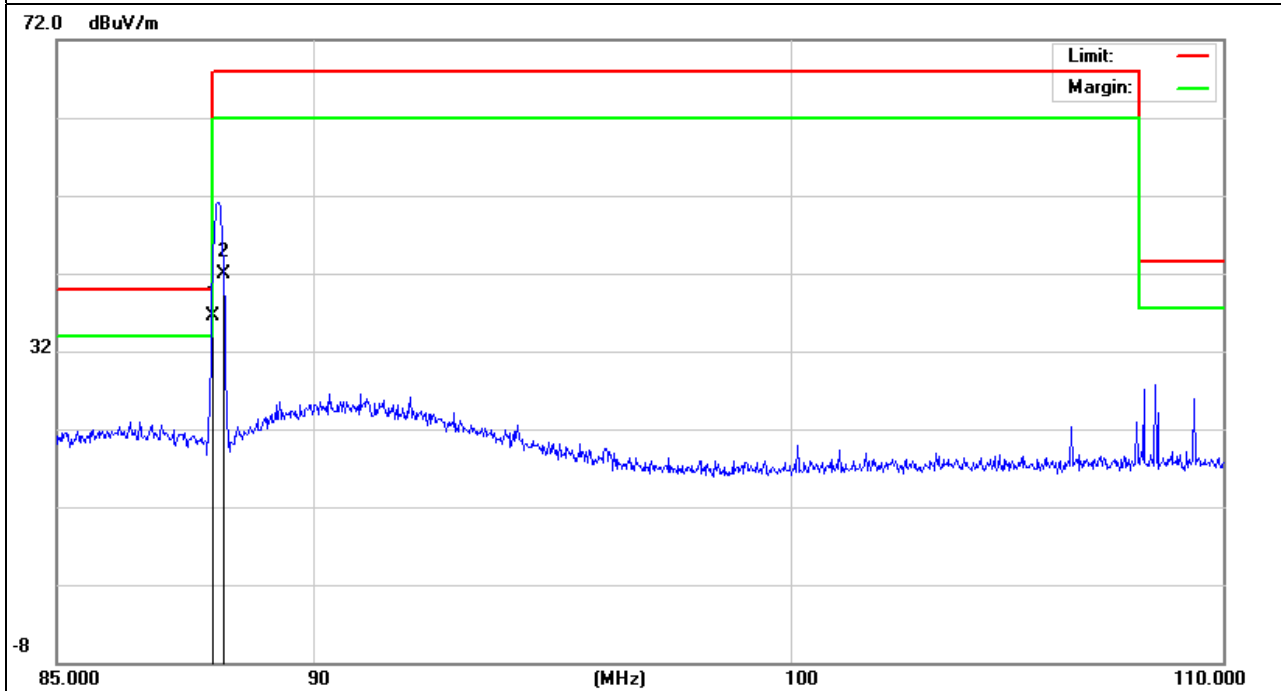
3.4.7 TEST RESULTS (BAND EDGE EMISSION)

EUT :	FM transmitter	Model Name :	iCarplay300
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.0V
Test Mode :	88.1MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
88	26.43	10.17	36.6	40	-3.4	QP
88.2	31.6	10.22	41.82	68	-26.18	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

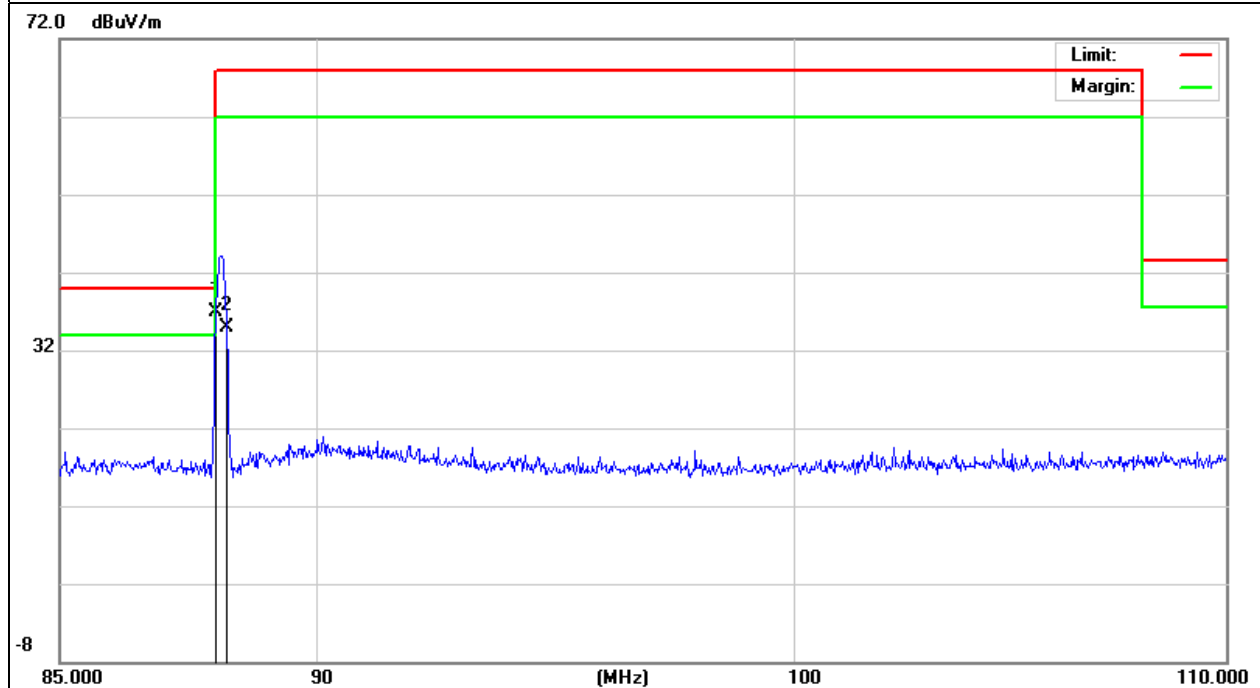


EUT :	FM transmitter	Model Name :	iCarplay300
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.0V
Test Mode :	88.1MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
88	26.79	10.17	36.96	40	-3.04	QP
88.2	24.77	10.22	34.99	68	-33.01	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

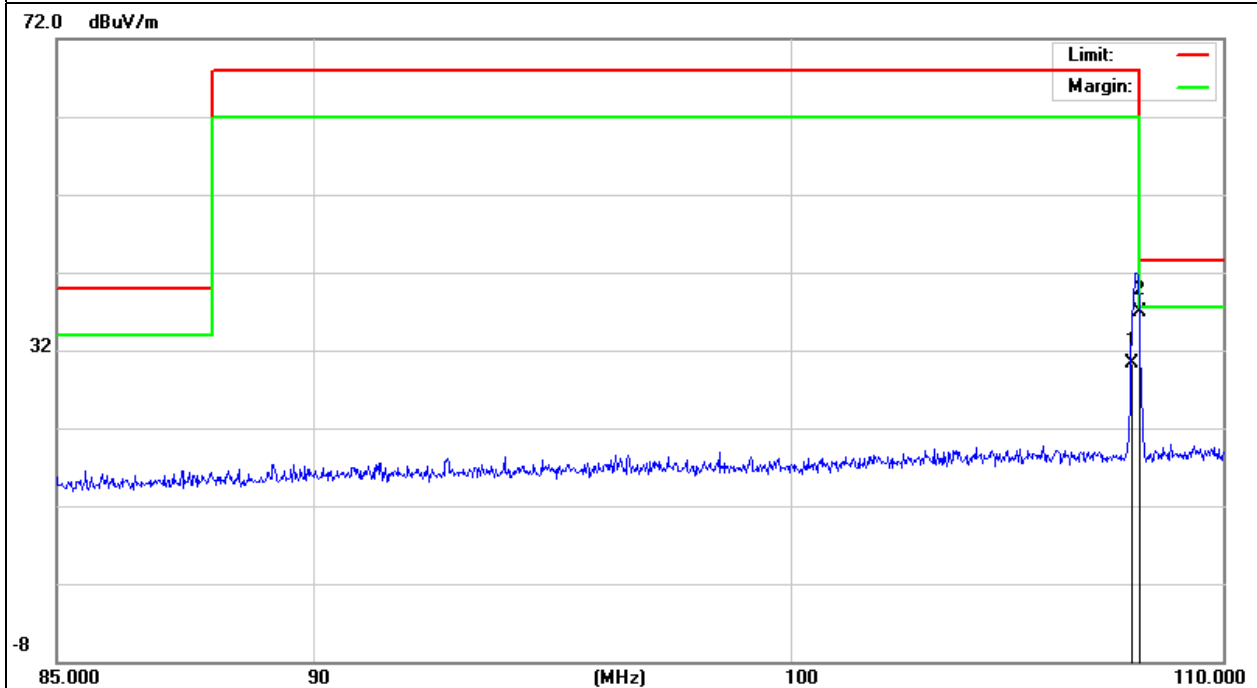


EUT :	FM transmitter	Model Name :	iCarplay300
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.0V
Test Mode :	107.9MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
107.8	17.94	12.44	30.38	68	-37.62	peak
108	24.45	12.45	36.9	43.5	-6.6	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

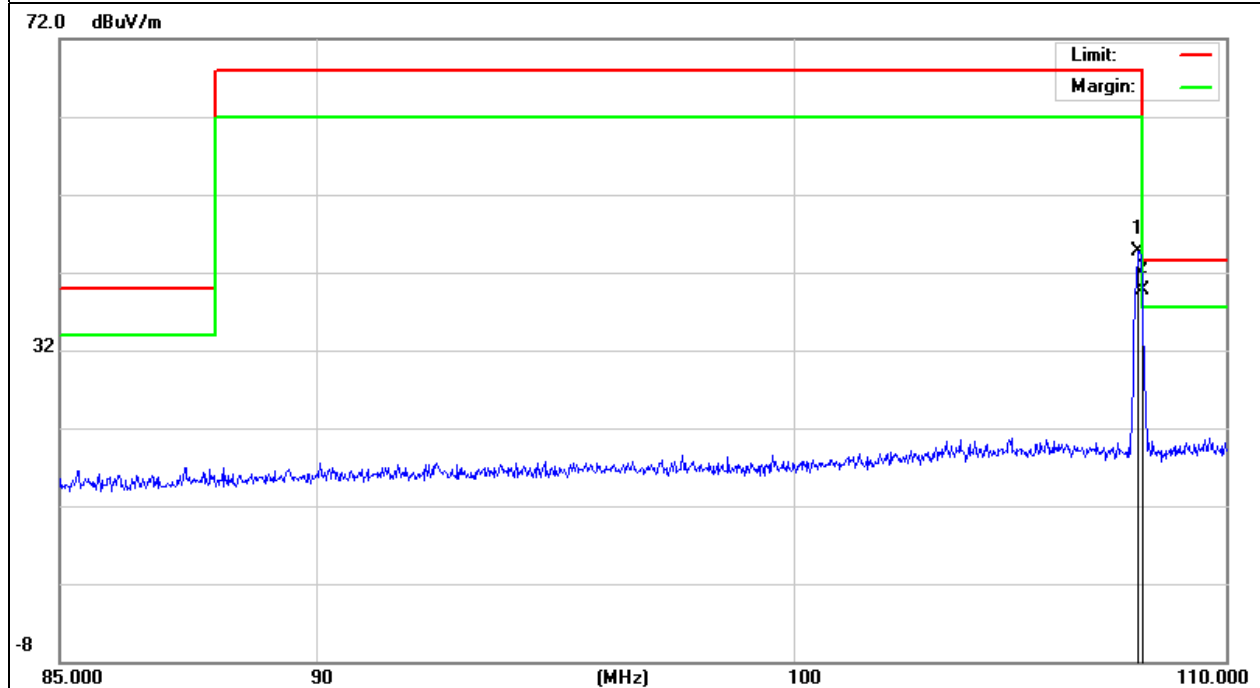


EUT :	FM transmitter	Model Name :	iCarplay300
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.0V
Test Mode :	107.9MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
107.9	32.34	12.44	44.78	68	-23.22	peak
108	27.28	12.45	39.73	43.5	-3.77	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



4. BANDWIDTH TEST

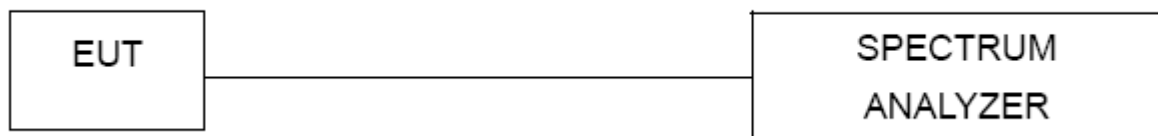
4.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 10KHz, VBW $\geq$ RBW, Sweep time = Auto.

4.2 DEVIATION FROM STANDARD

No deviation.

4.3 TEST SETUP

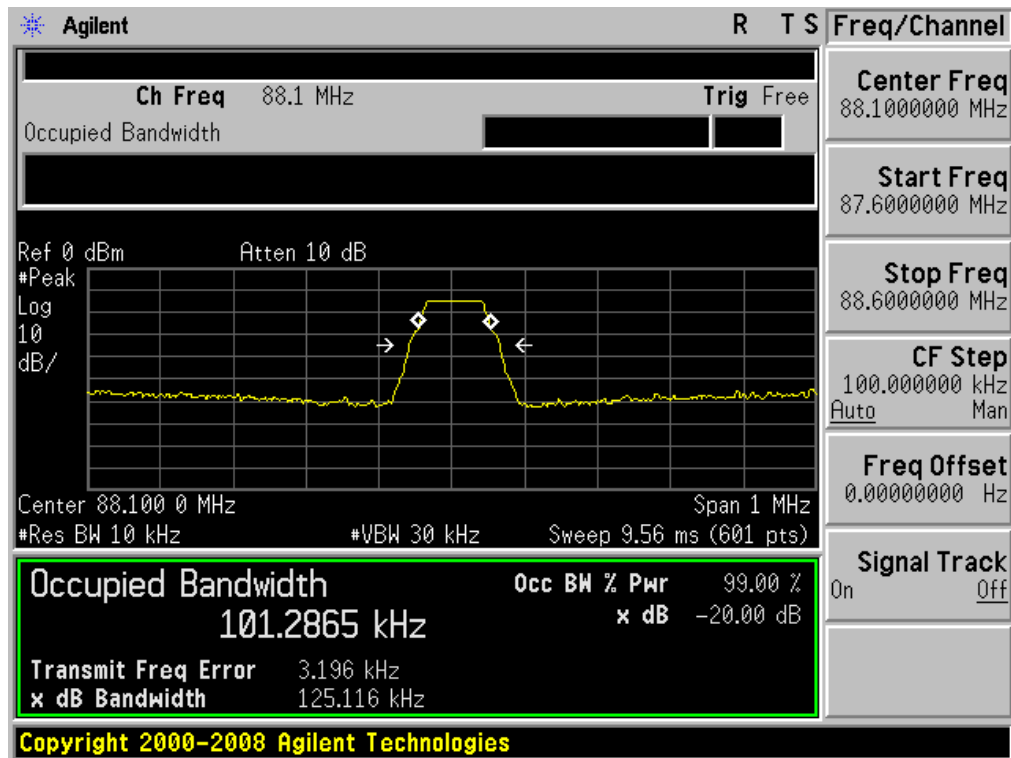


4.4 TEST RESULTS

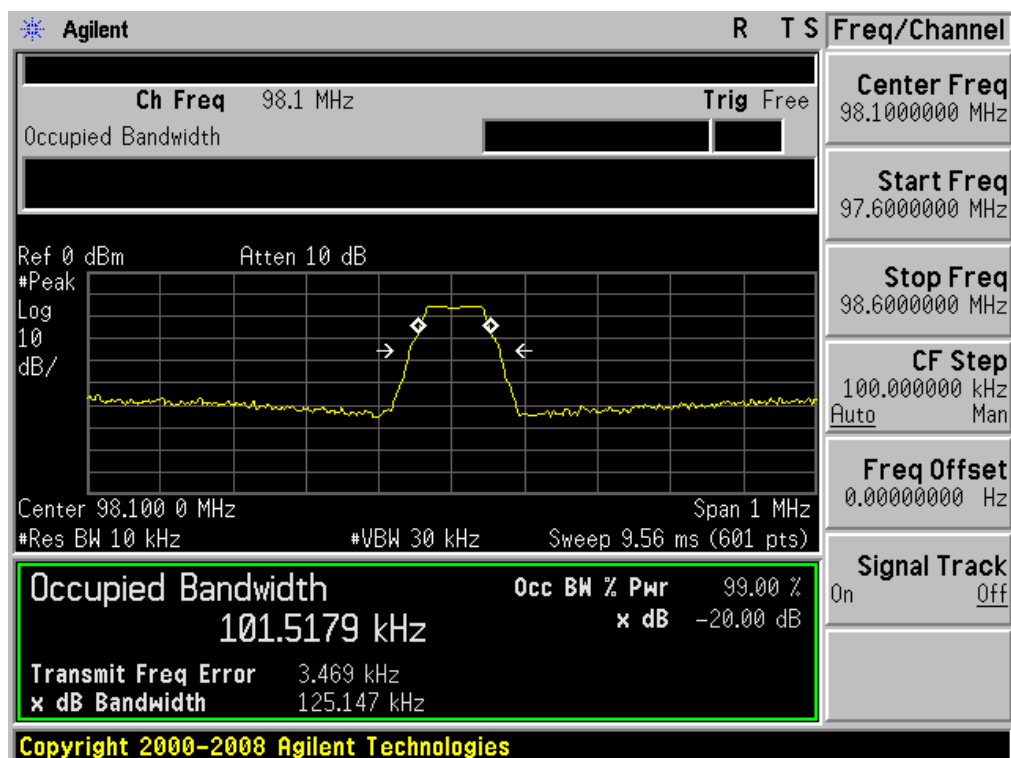
EUT :	FM transmitter	Model Name :	iCarplay300
Temperature :	26 °C	Relative Humidity :	53%
Pressure :	1020 hPa	Test Power :	DC 12.0V
Test Mode :	TX		

Test Channel	Frequency (MHz)	20 dBc Bandwidth (KHz)	Limit (KHz)
Low	88.1	125.116	200
Mid	98.1	125.147	200
High	107.9	125.452	200

The Lowest Channel: 88.1MHz



The Middle Channel: 98.1MHz



The High Channel:107.9MHz

