FCC RADIO TEST REPORT
FCC ID: YB2-CD903

Product：	CD903
Trade Mark:	N/A
Model Name：	CDS9
Family Model：	CD903TF, CD903SDW, HC031, CD903T, HC032, CD903SDU, HC028, CDS4
Report No.：	S20051503004002

Prepared for

HONGTIANTAI(H.K.)CO.,LIMITED
2102Pakpolee Commercial Centre 1A Sai Yeung Choi Street South Monqkok Kowloon Hong Kong Sar HONGKONG, China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name	:	HONGTIANTAI(H.K.)CO.,LIMITED
Address	:	2102Pakpolee Commercial Centre 1A Sai Yeung Choi Street South Monqkok Kowloon Hong Kong Sar HONGKONG, China
Manufacture's Name	:	HONGFUTAI E-TECH (SHENZHEN) CO., LIMITED
Address	:	Fourth floor,Block A1, Zone3, XinXing Industrial Park, XinHe Village,FuHai Avenue FuYong Town, BaoAn District, ShenZhen, 518103,China
Product description		
Product name	:	CD903
Model and/or type reference	:	CDS9
Family Model：		CD903TF, CD903SDW, HC031, CD903T, HC032, CD903SDU, HC028, CDS4
Rating(s)	:	DC 3.7V from battery or DC 5V From USB Port
Standards	:	FCC 47 CFR Part 15, Subpart C §15.239
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	:	May. 15, 2020 ~ Jun. 11, 2020
Date of Issue	:	Jun. 11, 2019
Test Result	:	**Pass**

Testing Engineer : Mary Hu
(Mary Hu)

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	Pass	
15.203	Antenna Requirement	Pass	
15.239	Radiated Spurious Emission	Pass	
15.239	Occupied Bandwidth	Pass	
15.205 15.239	Spurious Emission in Restricted Band	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.: 463705; IC Registration No.:9270A-1
CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **U**，where expended 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	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	CD903
Trade Name	N/A
Model Name	CDS9
Family Model	CD903TF, CD903SDW, HC031, CD903T, HC032, CD903SDU, HC028, CDS4
Model Difference	All models are the same circuit and RF module, except the model name and The last three models have no FM transmission function (common board)
Product Description	The EUT is a CD903 Product Type: Low Power Communication Device Transmitter Operation Frequency: 88.1-107.9MHz Modulation Type: FM Number Of Channel: 199CH. Antenna Designation: Metal internal Antenna Antenna Gain(Peak): 0 dBi Field Strength: 39.80 dBuV/m
Power supply	☒DC supply: DC 3.7V 1800mAh, 6.66Wh from battery or DC 5V From USB Port ☐Adapter supply:
Battery	N/A
Hard Ware Version	CD903 V5
Soft Ware Version	CD903Fm Tr V01

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 generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
0	88.1
1	88.2
…	…
99	98.1
100	98.2
…	…
197	107.8
198	107.9

Note: fc=88.1MHz+k×0.1MHz k=0 to 198

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

Note: Three kinds of frequency (88.1MHz, 98.1MHz, 107.9MHz) has been tested, but and the worst result was report.

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

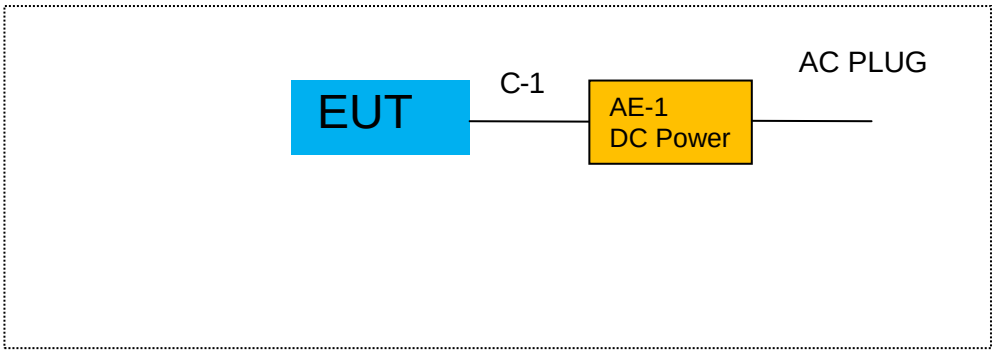
Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

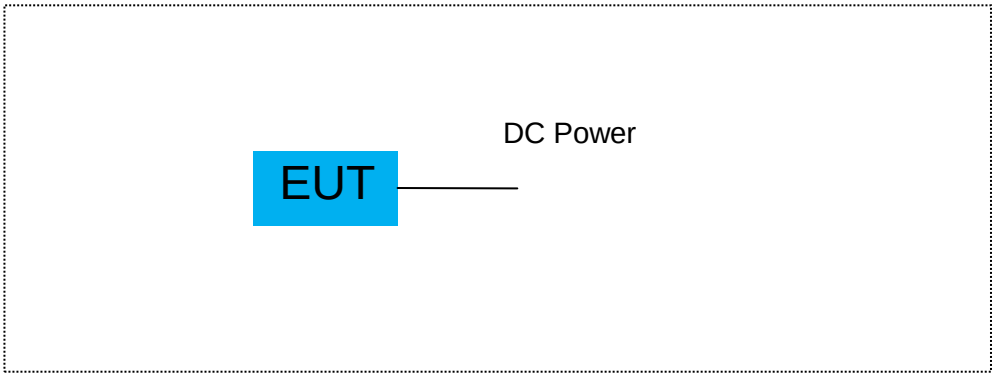
(2) During testing, the EUT was actively playing music set to its maximum audio volume in order to generate the worst case emissions (e.g. to generate the maximum bandwidth during bandwidth test). No test tones were used for testing. The tuning range of the EUT was manually verified and the conclusion 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

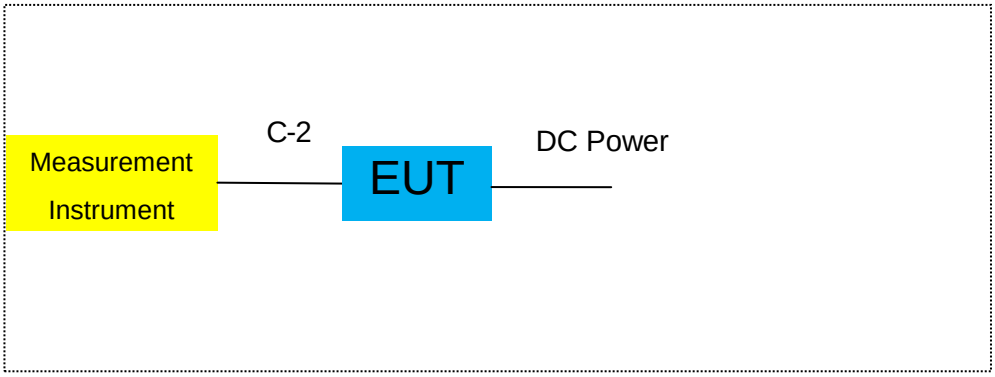
For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



Note:The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

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
AE-1	DC Power	N/A	N/A	N/A	Peripherals

Item	Shielded Type	Ferrite Core	Length	Note
C-1	DC Cable	NO	NO	0.5m
C-2	RF Cable	YES	NO	0.1m

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& Conducted Test equipment

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	N9020A	MY49100060	2020.05.11	2021.05.10	1 year
2	Test Receiver	R&S	ESPI	101318	2020.05.11	2021.05.10	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2019.04.15	2020.04.14	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	1 year
5	Horn Antenna	EM	EM-AH-10180	2011071402	2020.04.15	2021.04.14	1 year
6	Amplifier	EMC	EMC051835SE	980246	2019.08.05	2020.08.04	1 year
7	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2018.04.21	2021.04.20	3 year
8	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2018.04.21	2021.04.20	3 year
9	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

AC Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2020.05.13	2021.05.12	1 year
2	LISN	R&S	ENV216	101313	2020.04.15	2021.04.14	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2020.05.13	2021.05.12	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	2 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2018.04.21	2021.04.20	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2018.04.21	2021.04.20	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2018.04.21	2021.04.20	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.

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 Metal internal 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)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. *Decreases with the logarithm of the frequency
2. The lower limit shall apply at the transition frequencies
3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

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

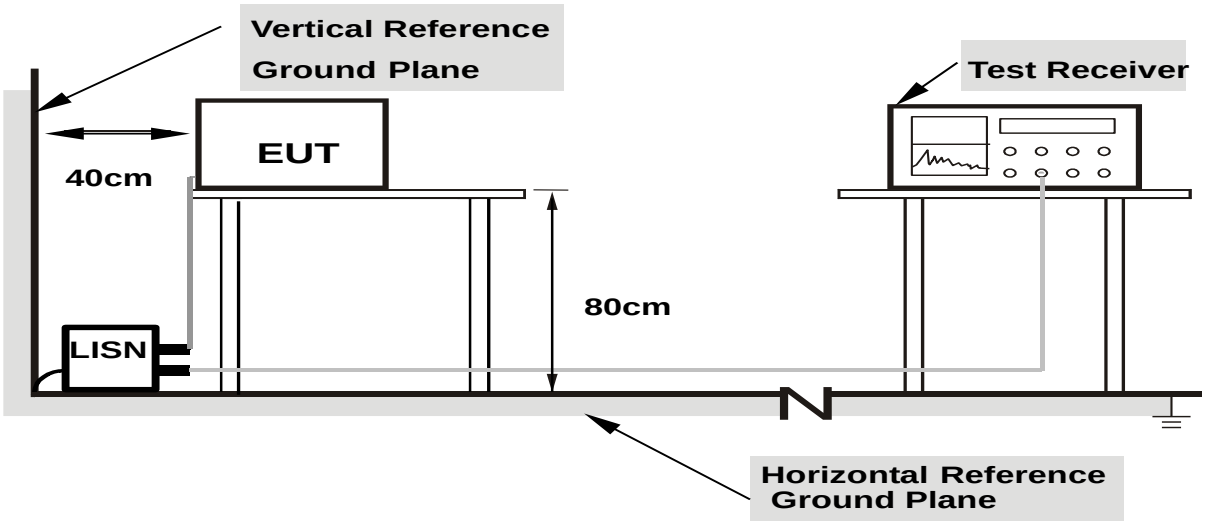
3.3.2 TEST PROCEDURE

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 from other units and other metal planes

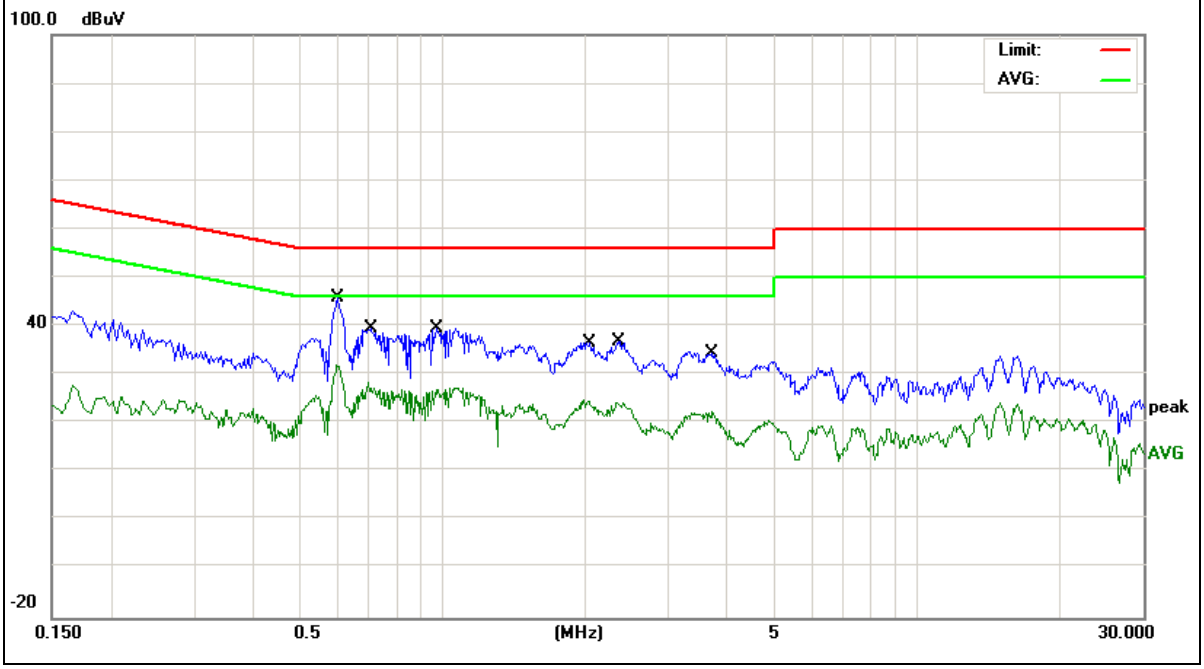
3.2.5 TEST RESULT

EUT：	CD903	Model Name. ：	CDS9
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	L1
Test Voltage ：	DC 5V from Adapter AC 120V/60Hz	Test Mode：	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.6020	36.19	9.55	45.74	56.00	-10.26	QP
0.6020	22.52	9.55	32.07	46.00	-13.93	AVG
0.7060	29.87	9.55	39.42	56.00	-16.58	QP
0.7060	19.03	9.55	28.58	46.00	-17.42	AVG
0.9740	29.88	9.56	39.44	56.00	-16.56	QP
0.9740	17.83	9.56	27.39	46.00	-18.61	AVG
2.0540	27.03	9.58	36.61	56.00	-19.39	QP
2.0540	15.31	9.58	24.89	46.00	-21.11	AVG
2.3580	27.26	9.58	36.84	56.00	-19.16	QP
2.3580	14.66	9.58	24.24	46.00	-21.76	AVG
3.6900	24.92	9.60	34.52	56.00	-21.48	QP
3.6900	12.44	9.60	22.04	46.00	-23.96	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

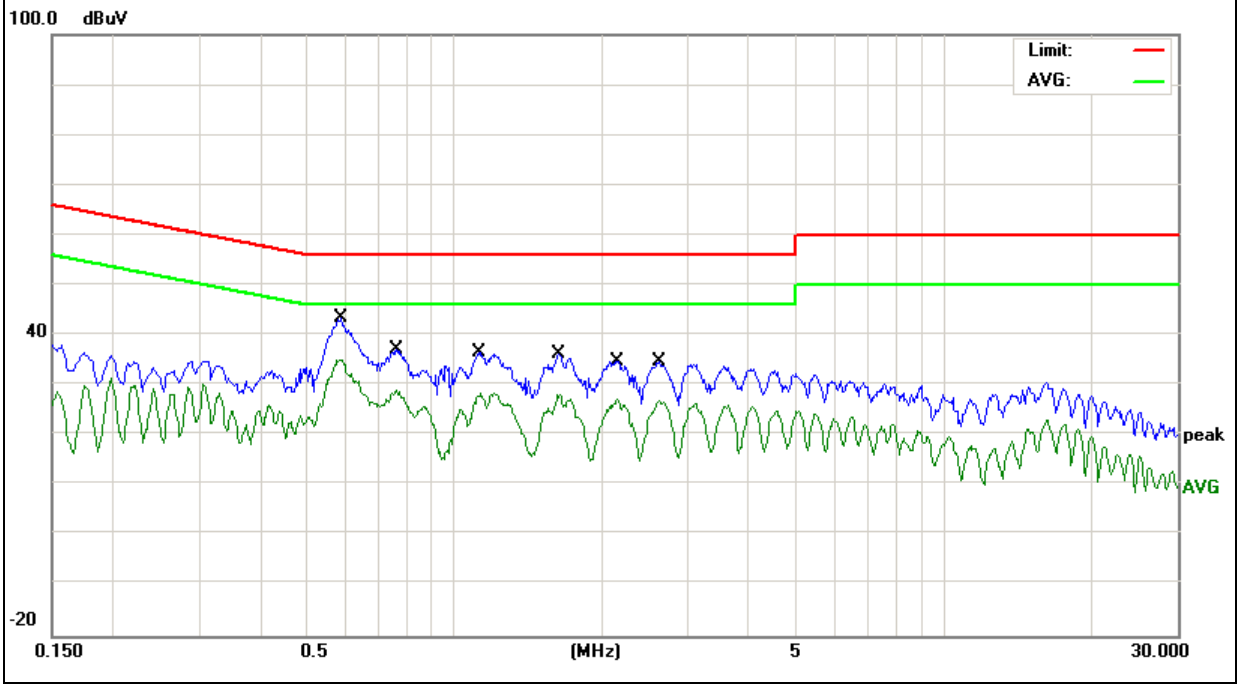


EUT：	CD903	Model Name ：	CDS9
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	DC 5V from Adapter AC 120V/60Hz	Test Mode：	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.5860	34.01	9.54	43.55	56.00	-12.45	QP
0.5860	25.50	9.54	35.04	46.00	-10.96	AVG
0.7620	27.60	9.54	37.14	56.00	-18.86	QP
0.7620	19.58	9.54	29.12	46.00	-16.88	AVG
1.1180	27.04	9.55	36.59	56.00	-19.41	QP
1.1180	18.81	9.55	28.36	46.00	-17.64	AVG
1.6339	26.70	9.57	36.27	56.00	-19.73	QP
1.6379	18.49	9.57	28.06	46.00	-17.94	AVG
2.1538	25.22	9.57	34.79	56.00	-21.21	QP
2.1538	17.71	9.57	27.28	46.00	-18.72	AVG
2.6179	25.06	9.58	34.64	56.00	-21.36	QP
2.6179	17.38	9.58	26.96	46.00	-19.04	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



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	AVG
	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:

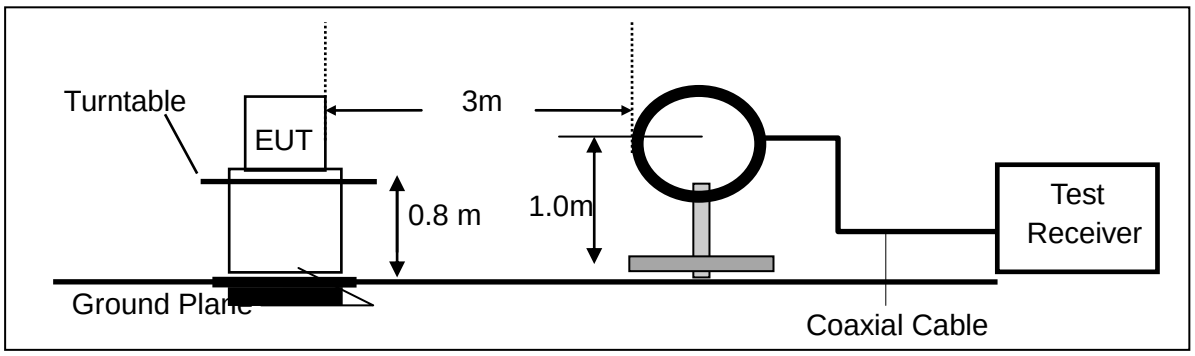
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.4.3 DEVIATION FROM TEST STANDARD

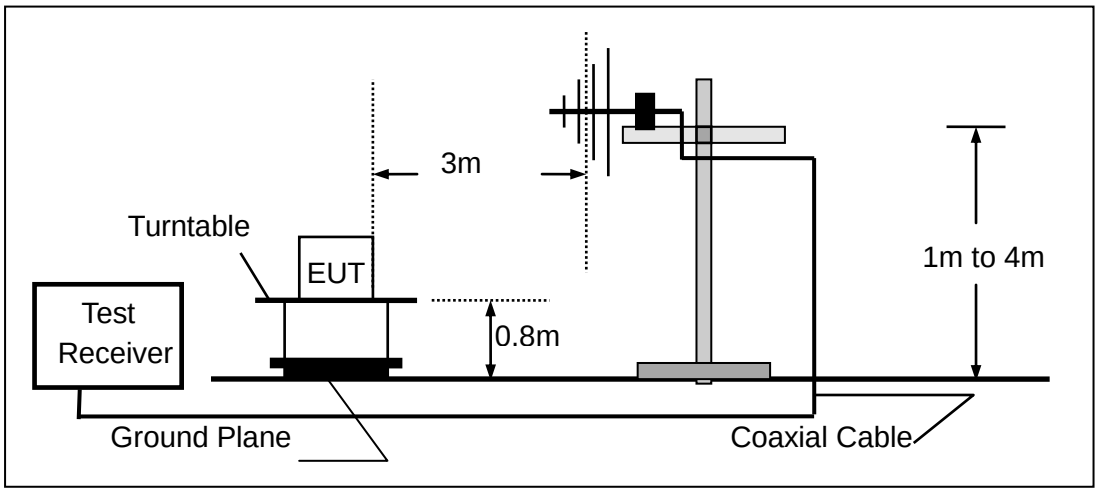
No deviation

3.4.4 TEST SETUP

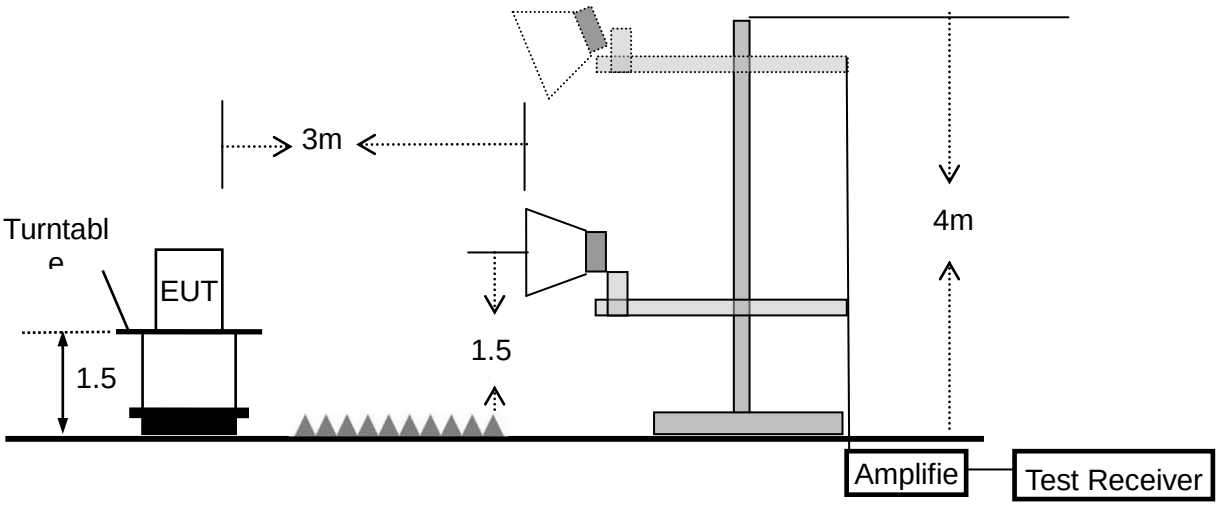
(a) For radiated emissions below 30MHz



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



(c) For radiated emissions above 1000MHz



3.4.5 TEST RESULTS (BLOW 30MHz)

EUT：	CD903	Model Name. ：	CDS9
Temperature：	20 ℃	Relative Humidtity：	48%
Pressure：	1010 hPa	Test Voltage ：	N/A
Test Mode ：	N/A	Polarization :	--

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

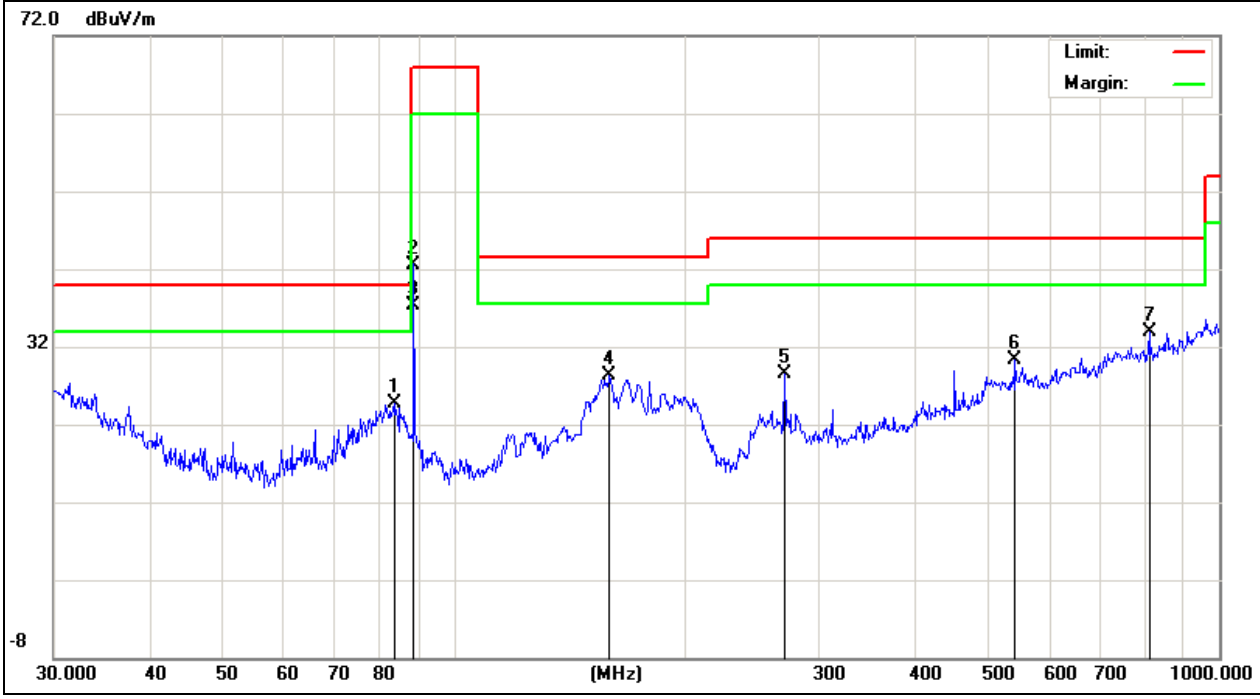
Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

3.4.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

EUT：	CD903	Model Name ：	CDS9
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	88.1MHz	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
83.5220	16.19	8.51	24.70	40.00	-15.30	QP
88.6524	33.22	9.38	42.60	68.00	-25.40	peak
88.6524	28.00	9.38	37.38	68.00	-30.62	AVG
159.7844	17.39	10.83	28.22	43.50	-15.28	QP
270.3748	14.25	14.30	28.55	46.00	-17.45	QP
541.3721	8.51	21.75	30.26	46.00	-15.74	QP
810.2653	9.01	24.83	33.84	46.00	-12.16	QP

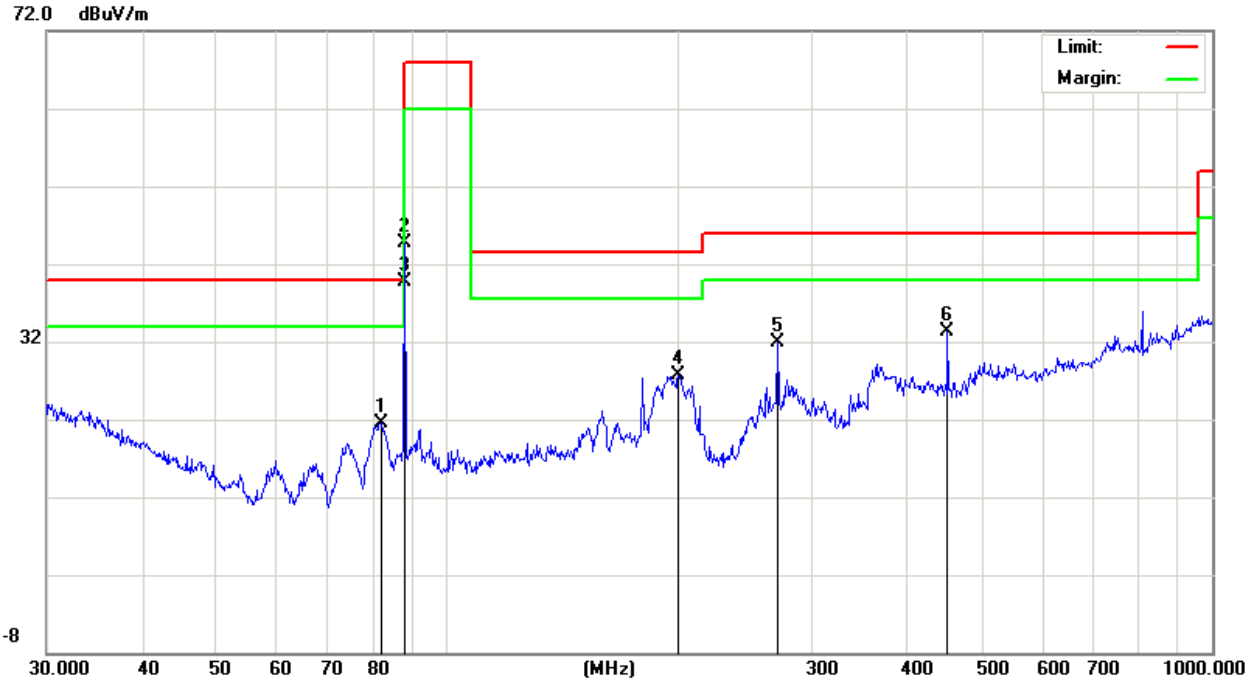
Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	CD903	Model Name ：	CDS9
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	88.1MHz	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
82.0704	13.34	8.21	21.55	40.00	-18.45	QP
88.0327	35.57	9.23	44.80	68.00	-23.20	peak
88.0327	30.57	9.23	39.80	68.00	-28.20	AVG
200.6881	18.52	9.20	27.72	43.50	-15.78	QP
270.3748	17.67	14.30	31.97	46.00	-14.03	QP
451.1350	14.76	18.60	33.36	46.00	-12.64	QP
82.0704	13.34	8.21	21.55	40.00	-18.45	QP

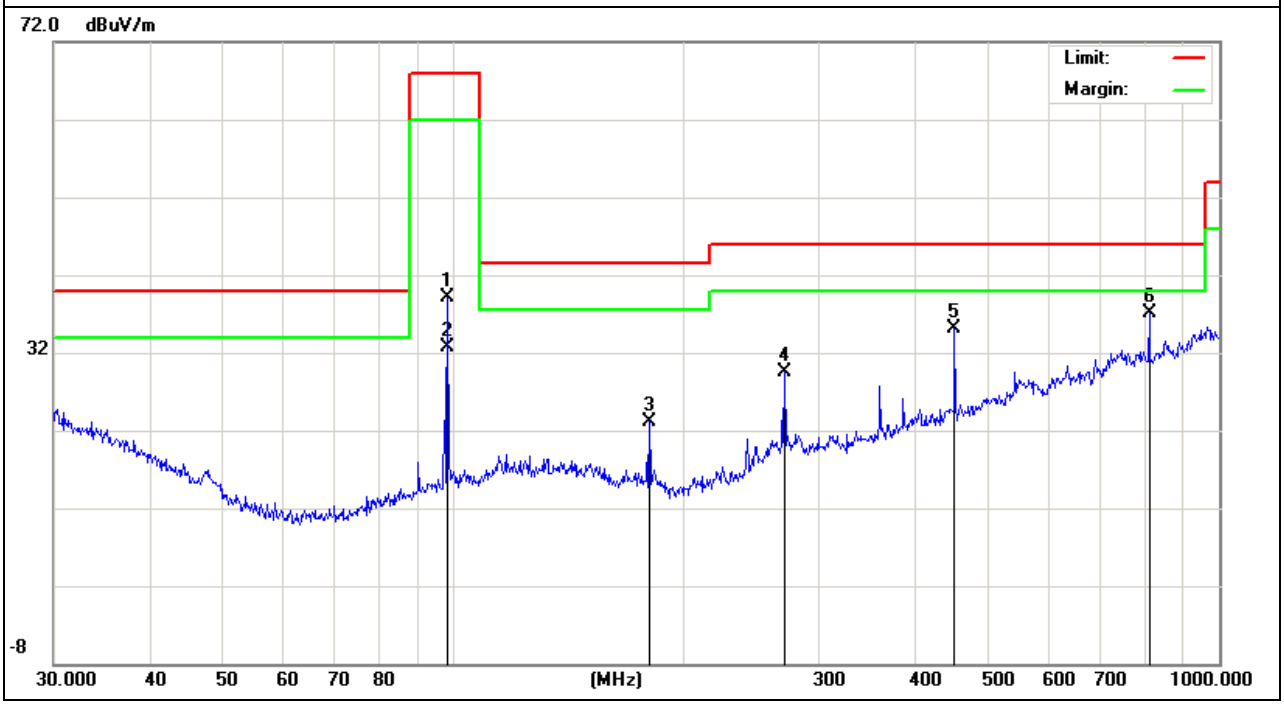
Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	CD903	Model Name ：	CDS9
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	98.1MHz	Polarization：	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
98.1419	28.60	10.60	39.20	68.00	-28.80	peak
98.1419	22.01	10.60	32.61	68.00	-35.39	AVG
180.0165	13.15	10.05	23.20	43.50	-20.30	QP
270.3748	15.29	14.30	29.59	46.00	-16.41	QP
451.1350	16.49	18.60	35.09	46.00	-10.91	AVG
810.2654	12.32	24.83	37.15	46.00	-8.85	QP
98.1419	28.60	10.60	39.20	68.00	-28.80	QP

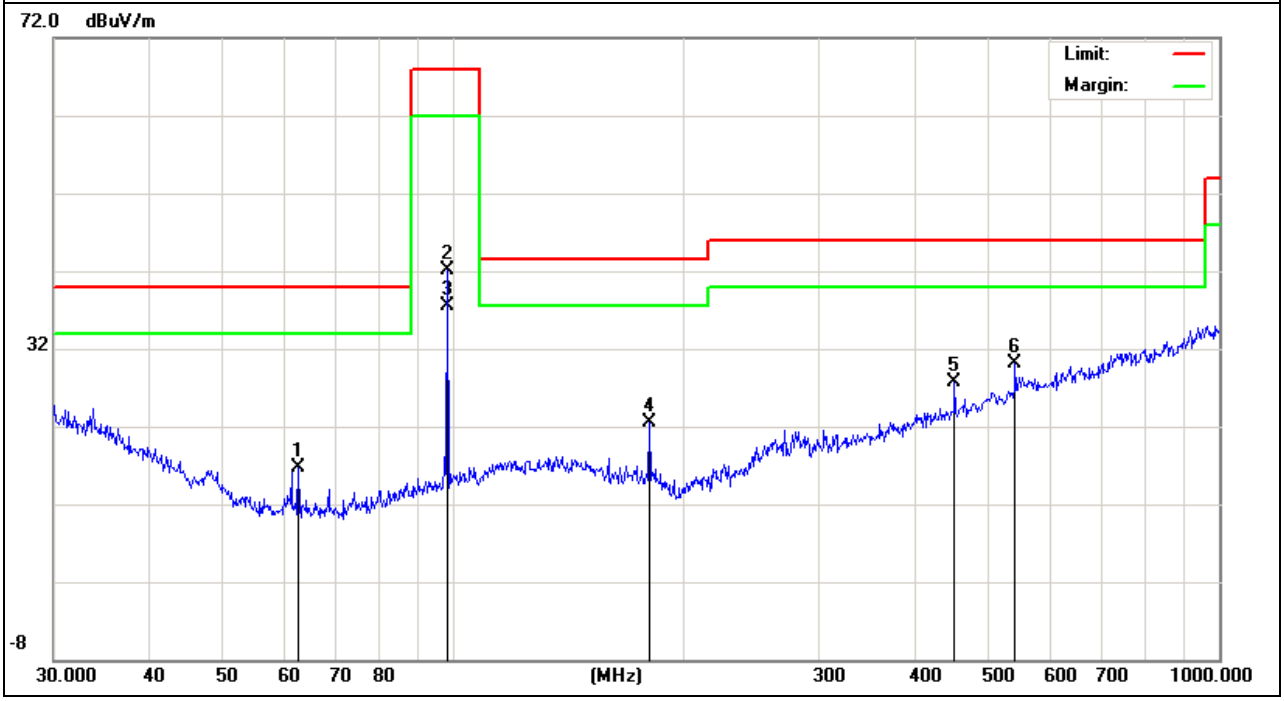
Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	CD903	Model Name ：	CDS9
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	98.1MHz	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
62.6507	10.67	6.02	16.69	40.00	-23.31	peak
98.1419	31.60	10.60	42.20	68.00	-25.8	AVG
98.1419	26.89	10.60	37.49	68.00	-30.51	QP
180.0165	12.54	10.05	22.59	43.50	-20.91	QP
451.1349	9.15	18.6	27.75	46.00	-18.25	QP
541.3721	8.29	21.75	30.04	46.00	-15.96	QP
62.6507	10.67	6.02	16.69	40.00	-23.31	QP

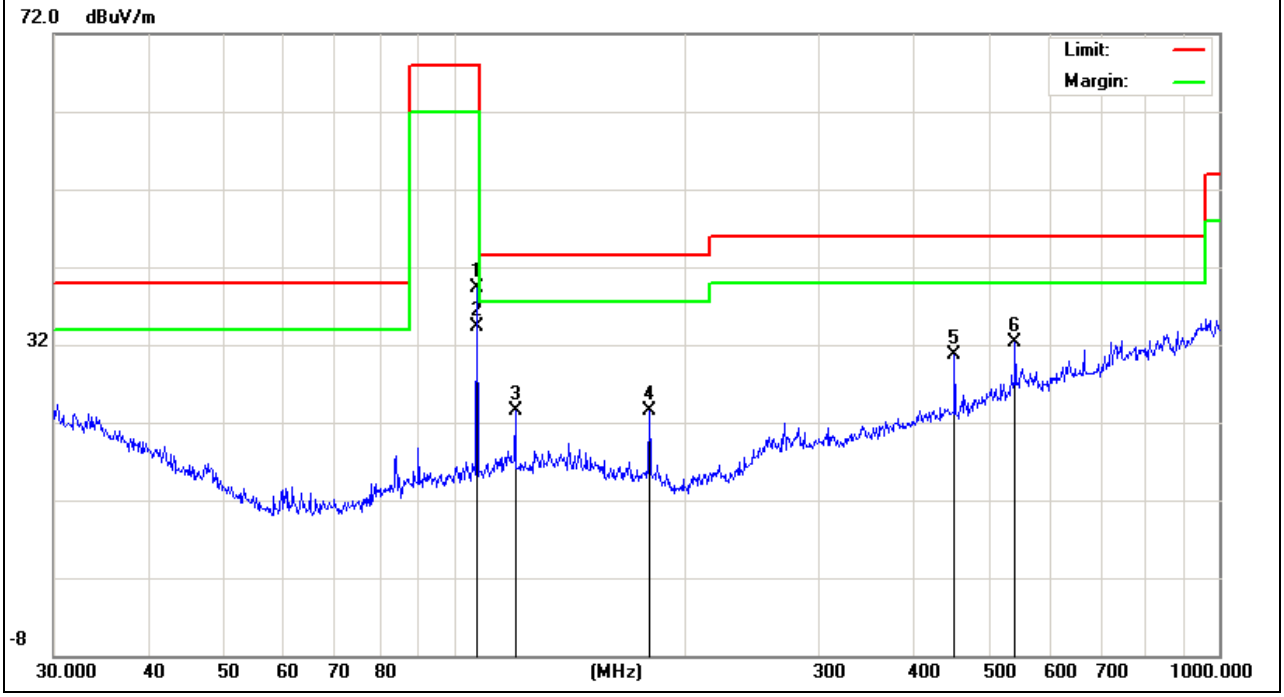
Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	CD903	Model Name ：	CDS9
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	107.9MHz	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
107.1337	28.26	11.14	39.40	68.00	-28.60	peak
107.1337	23.26	11.14	34.40	68.00	-33.60	AVG
120.2766	11.15	12.41	23.56	43.50	-19.94	QP
180.0165	13.42	10.05	23.47	43.50	-20.03	QP
451.1350	12.13	18.60	30.73	46.00	-15.27	QP
541.3725	10.60	21.75	32.35	46.00	-13.65	QP
107.1337	28.26	11.14	39.40	68.00	-28.60	QP

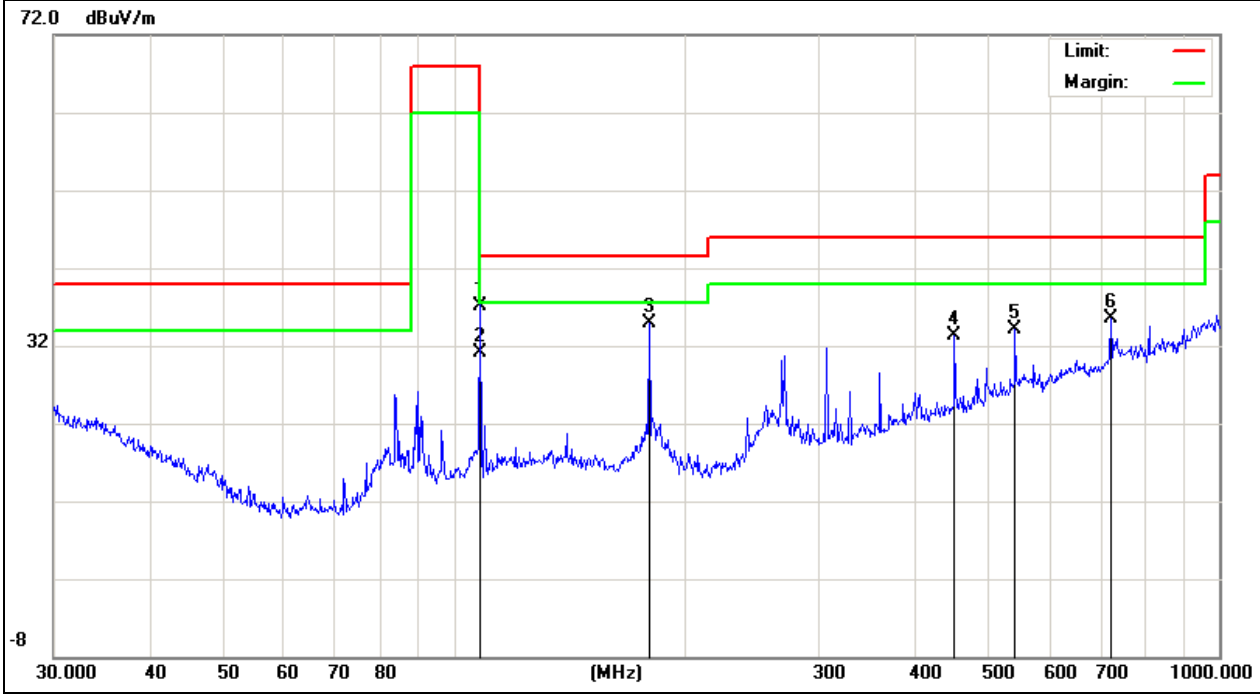
Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	CD903	Model Name ：	CDS9
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	107.9MHz	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
108.2667	26.03	11.17	37.20	43.50	-6.30	peak
108.2667	20.03	11.17	31.20	43.50	-12.30	AVG
180.0165	24.89	10.05	34.94	43.50	-8.56	QP
451.135	14.63	18.60	33.23	46.00	-12.77	QP
541.3725	12.40	21.75	34.15	46.00	-11.85	QP
721.7259	11.58	24.02	35.60	46.00	-10.40	QP
108.2667	26.03	11.17	37.20	43.50	-6.30	QP

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



3.4.7 TEST RESULTS (BAND EDGE EMISSION)

EUT：	CD903	Model Name ：	CDS9
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	88.1MHz	Polarization：	Vertical

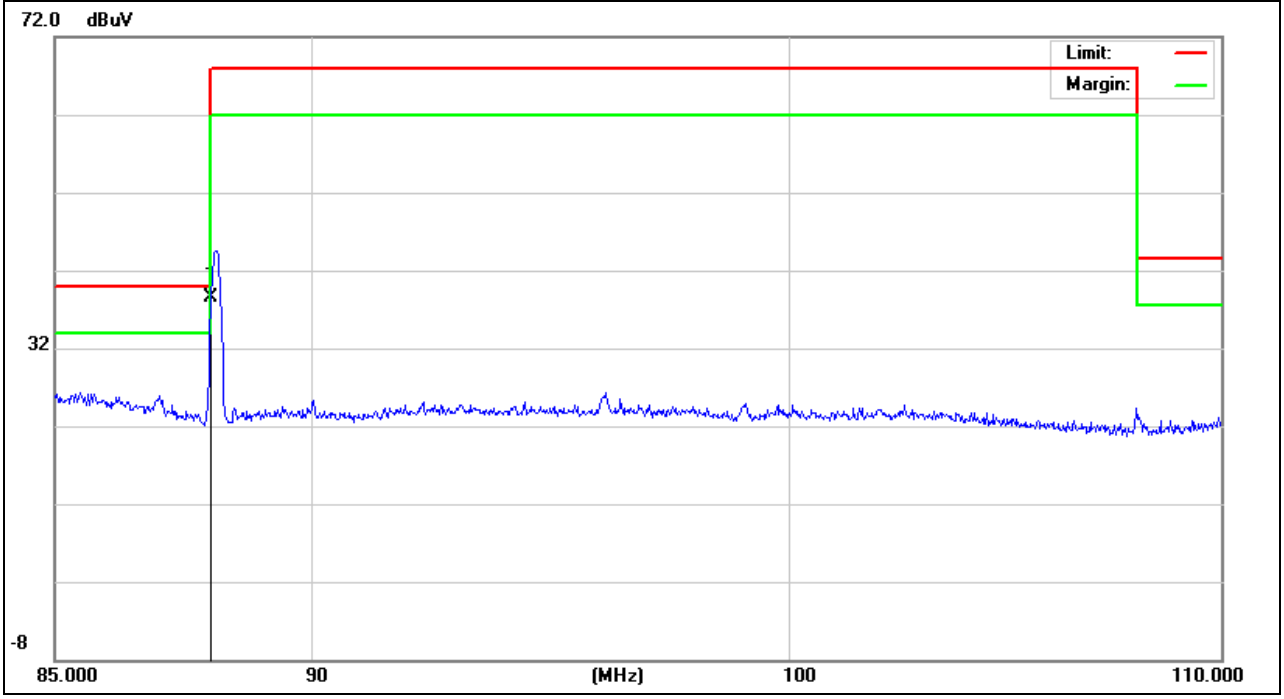
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
88.0000	26.00	9.95	35.95	40.00	-4.05	QP

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

EUT：	CD903	Model Name ：	CDS9
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	88.1MHz	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
88.0000	28.49	9.95	38.44	40.00	-1.56	QP

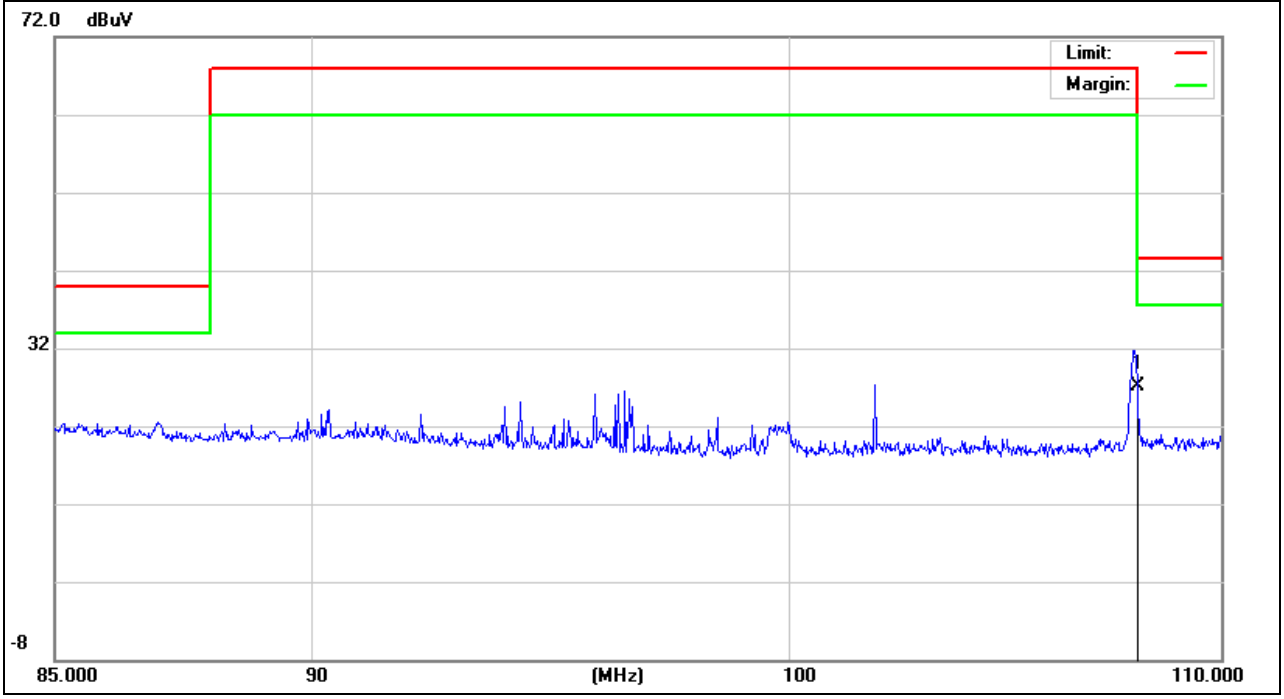
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	CD903	Model Name ：	CDS9
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	107.9MHz	Polarization：	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
108.0000	14.78	12.23	27.01	43.50	-16.49	QP

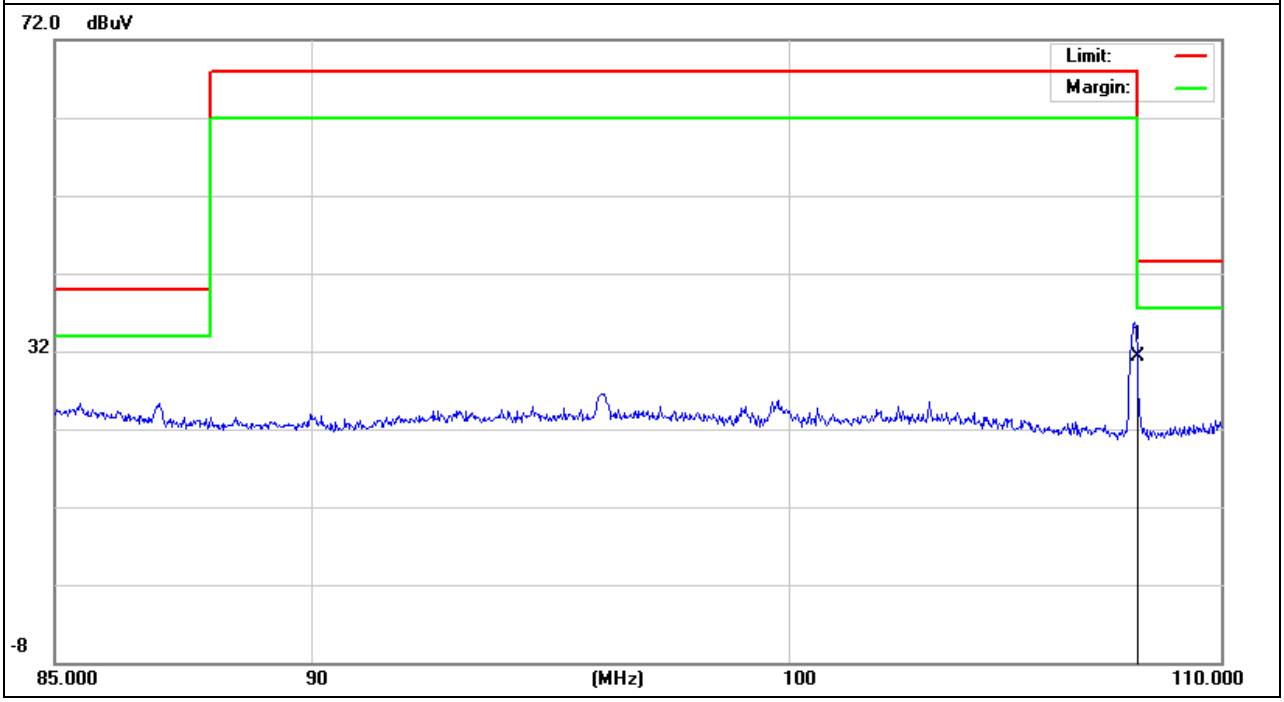
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	CD903	Model Name ：	CDS9
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	107.9MHz	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
108.0000	19.07	12.23	31.30	43.50	-12.20	QP

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



4. BANDWIDTH TEST

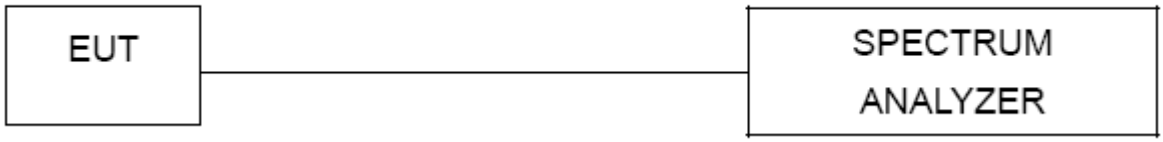
4.1 TEST PROCEDURE

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≧RBW, Sweep time = Auto.

4.2 DEVIATION FROM STANDARD

No deviation.

4.3 TEST SETUP

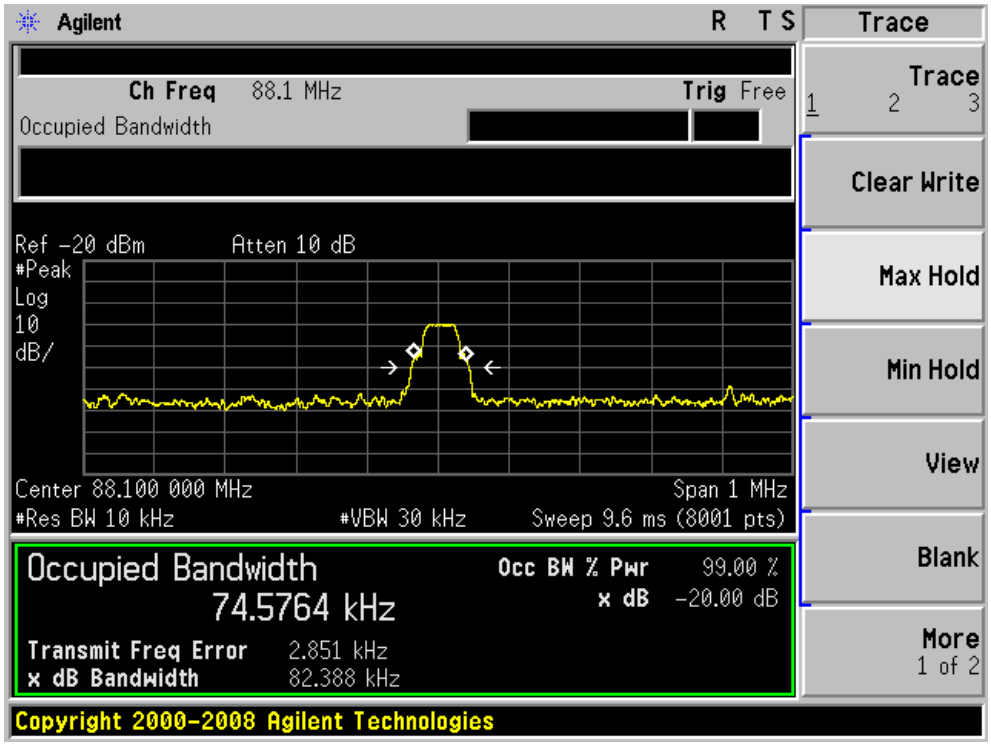


4.4 TEST RESULTS

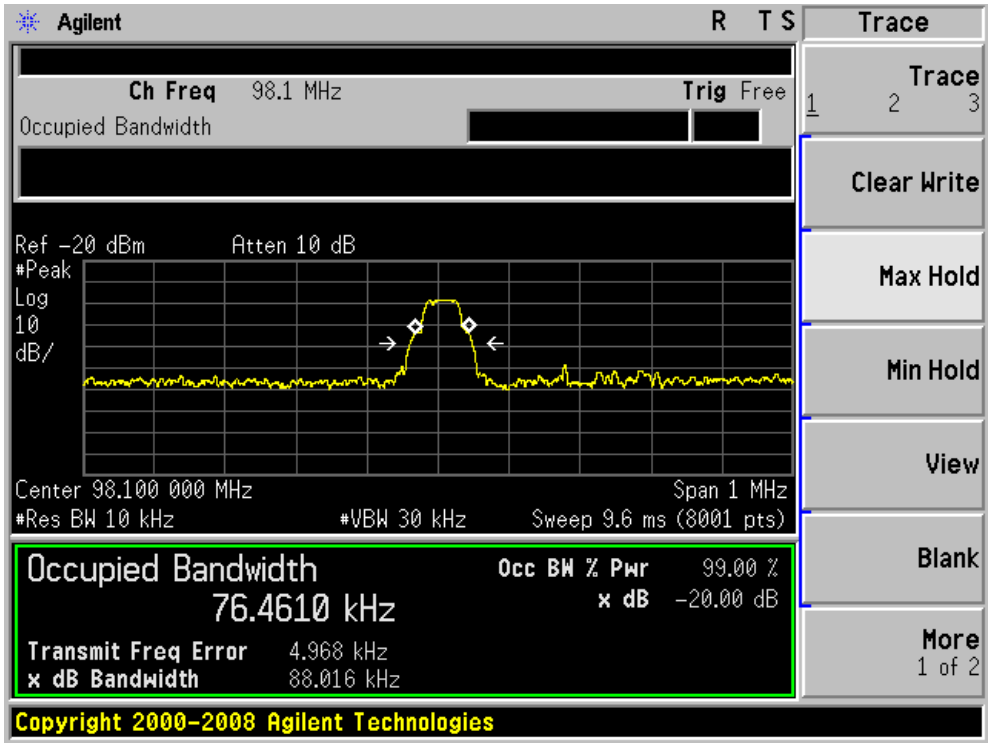
EUT：	CD903	Model Name ：	CDS9
Temperature：	26 ℃	Relative Humidity：	53%
Pressure：	1020 hPa	Test Power ：	DC 3.7V
Test Mode ：	TX		

Test Channel	Frequency (MHz)	20 dBc Bandwidth (KHz)	Limit (KHz)
Low	88.1	82.388	200
Mid	98.1	88.016	200
High	107.9	85.324	200

The Lowest Channel:88.1MHz



The Middle Channel: 98.1MHz



The High Channel:107.9MHz