TEST REPORT

For

Mobile Phone

Model Number: CPH2711

FCC ID: R9C-OP24283

Test Laboratory	:	Shenzhen Academy of Metrology and Quality Inspection
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Revision History

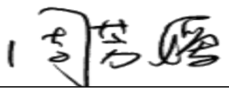
No	Date	Remark
V1.0	2024-12-9	Initial issue

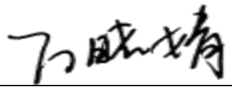
TEST REPORT DECLARATION

Applicant	:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	:	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China
Manufacturer	:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	:	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China
EUT Description	:	Mobile Phone
Model No.	:	CPH2711
Trade mark	:	OPPO
Serial Number	:	/
Date of EUT Receive	:	2024-11-4
Test Standards:	:	FCC Part 15 Subpart B

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT and ensure the EUT to be compliance with the immunity requirements of the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results, unless they depend on the manufacturer information.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Project Engineer:  Date: 2024-11-28
(周芳媛 Zhou FangAi)

Checked by:  Date: 2024-12-9
(万晓婧 Wan XiaoJing)

Approved by:  Date: 2024-12-9
(林斌 Lin Bin)

TABLE OF CONTENTS

1 Test Results Summary

Table 1 Test Results Summary

Test Items	Test Results
Conducted Emission	PASS
Radiated Emission	PASS

Remark: “N/A” means “Not applicable.”

2 General Information

2.1 Report Information

This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.

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China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579.

The Laboratory is Accredited Testing Laboratory of FCC with Designation numberCN1165 and Site registration number 582918.

The Laboratory is registered to perform emission tests with Innovation, Science and Economic Development (ISED), and the registration number is 11177A.

The Laboratory is registered to perform emission tests with VCCI, and the registration number are C-20048, G20076, R-20077, R-20078 and T-20047.

The Laboratory is Accredited Testing Laboratory of American Association for Laboratory Accreditation (A2LA) and certificate number is 3292.01.

2.3 Measurement Uncertainty

Conducted Emission for Mains
AMN
U =2u_c (V) =3.74 dB k =2 (9 kHz -150 kHz)
U =2u_c (V) =3.34 dB k =2 (0.15 MHz -30 MHz)

Radiated Emission
U =2u_c (E) =4.26 dB k =2 (Below 1 GHz)
U =2u_c =4.64 dB k =2 (1 GHz~6 GHz)
U =2u_c =5.08 dB k =2 (6 GHz~40 GHz)

3 PRODUCT DESCRIPTION

NOTE: The extreme test conditions for temperature and antenna gain were declared by the manufacturer.

3.1 EUT Description

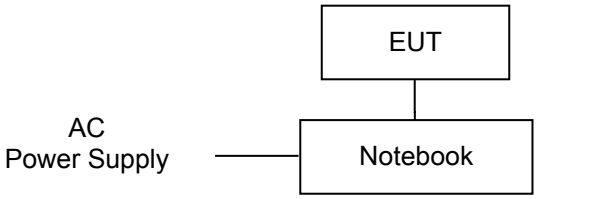
Operating voltage	:	3.4 Vdc (Low)/3.92 Vdc (Normal)/4.53 Vdc (Max)
Test voltage	:	120 Vac/60 Hz
Software Version	:	ColorOS 15.0.0
Hardware Version	:	11
Frequency	:	GSM850: TX 824 MHz~849 MHz RX 869 MHz~894 MHz PCS1900: TX 1850 MHZ~1910 MHz RX 1930 MHz~1990 MHz WCDMA Band V: TX 824 MHz~849 MHz RX 869 MHz~894 MHz WCDMA Band IV: TX 1710MHz~1755 MHz RX 2110MHz~2155 MHz WCDMA Band II: TX 1850 MHZ~1910 MHz RX 1930 MHz~1990 MHz LTE Band 2: TX 1850 MHZ~1910 MHz RX 1930 MHz~1990 MHz LTE Band 4: TX 1710 MHz~1755 MHz RX 2110 MHz~2155 MHz LTE Band 5: TX 824 MHz~849 MHz RX 869 MHz~894 MHz LTE Band 7: TX 2500 MHz~2570 MHz RX 2620 MHz~2690 MHz LTE Band 12: TX 699 MHz~716 MHz RX 729 MHz~746 MHz LTE Band 13: TX 777 MHz~787 MHz RX 746 MHz~756 MHz LTE Band 17: TX 704 MHz~716 MHz RX 734 MHz~746 MHz LTE Band 26: TX 814 MHz~849 MHz RX 859 MHz~894 MHz LTE Band 38: TX 2570 MHz~2620 MHz RX 2570 MHz~2620 MHz LTE Band 41: TX 2535 MHz~2655 MHz RX 2535 MHz~2655 MHz LTE Band 66: TX 1710 MHz~1780 MHz RX 2110 MHz~2180 MHz 2.4GWiFi: 2412 MHz~2462 MHz

		5GWiFi: U-NII 1 (5150~5250 MHz) U-NII 2A (5250~5350 MHz) U-NII 2C (5470~5725 MHz) U-NII 3 (5725~5850 MHz) BT:2402 MHz~2480 MHz
Type(s) of Modulation	:	GSM850/PCS1900: GMSK 8PSK WCDMA: QPSK, 16QAM LTE: QPSK, 16QAM, 64QAM DSSS (DBPSK, DQPSK, CCK) for 802.11b OFDM (BPSK, QPSK, 16QAM, 64QAM) for 802.11a/g/n OFDM (BPSK, QPSK, 16QAM, 64QAM,256QAM) for 802.11ac Bluetooth: GFSK, pi/4-DQPSK, 8DPSK
Antenna Type	:	GSM/WCDMA/LTE: IFA Antenna WLAN/Bluetooth: IFA Antenna

	Antenna Gain (dBi)				
	Ant 0	Ant 1	Ant 3	Ant 4	Ant 8
GSM 850	-7.5	-5	/	/	/
PCS 1900	/	/	-3	-4.5	/
WCDMA band 2	/	/	-3	-4.5	/
WCDMA band 4	/	/	-3	-3.5	/
WCDMA band 5	-7.5	-5	/	/	/
LTE band 2	/	/	-3	-4.5	/
LTE band 4	/	/	-3	-4.5	/
LTE band 5	-7.5	-5	/	/	/
LTE band 7	/	/	-1.5	-1.5	/
LTE band 12	-9	-6	/	/	/
LTE band 13	-9	-6	/	/	/
LTE band 17	-9	-6	/	/	/
LTE band 26	-7.5	-5	/	/	/
LTE band 38	/	/	-1.5	-1.5	/
LTE band 41	/	/	-1.5	-1.5	/
LTE band 66	/	/	-3	-3.5	/
2.4G WiFi	/	/	/	/	0
BT	/	/	/	/	0
5G WiFi (U-NII 1)	/	/	/	/	1
5G WiFi (U-NII 2A)	/	/	/	/	1.5
5G WiFi (U-NII 2C)	/	/	/	/	1.5
5G WiFi (U-NII 3)	/	/	/	/	1.5

Remark: There are 4 adapters, only the worst data of VCB4JAUH (2#) shown in this report.

3.2 Block Diagram of EUT Configuration



Setup of test

3.3 Operating Condition of EUT

Test mode 1: Connected to a pc and data transmission.
Test mode 2: Adapter+ GSM 850 Idle
Test mode 3: Adapter+ WCDMA Band V Idle
Test mode 4: Adapter+ LTE band 5 Idle
Test mode 5: Adapter+ LTE band 12 Idle
Test mode 6: Adapter+ LTE band 13 Idle
Test mode 7: Adapter+ LTE band 17 Idle
Test mode 8: Adapter+ LTE band 26 Idle
EUT has more than one typical operation, only the worst test mode will be recorded in this report.
The Radiated emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission (X plane).

3.4 Support Equipment List

Table 2 Support Equipment List

Name	Model No.	S/N	Manufacturer
Adapter 1# for EUT	VCB4JAUH	---	HUIZHOU GOLDEN LAKE INDUSTRIAL CO., LTD
Adapter 2# for EUT	VCB4JAUH	---	Jiangsu ChenYang Electronics Co,. Ltd.
Adapter 3# for EUT	VCB4HAUH	---	ShenZhen Huntkey Electronics Co.,Ltd.
Adapter 4# for EUT	VCB4HAUH	---	HUIZHOU GOLDEN LAKE INDUSTRIAL CO., LTD.
Rechargeable Li-ion Polymer Battery for EUT	BLPB65	---	Dongguan NVT Technology Co.,Ltd
USB for EUT	DL154	---	---
Notebook	HP ProBook 440 G6	---	HP

3.5 Test Conditions

Date of test: Nov.04,2024 – Nov.05,2024

Date of EUT Receive：Nov.04, 2024

Temperature: 23 ℃-24 ℃
Relative Humidity: 49%-51%

3.6 Modifications

No modification was made.

4 CONDUCTED EMISSION TEST

4.1 Test Standard and Limit

4.1.1 Test Standard

FCC Part 15 Subpart B

4.1.2 Test Limit

Table 3 Conducted Emission Test Limit

Frequency range MHz	Class B		Class A	
	Quasi Peak dB(μV)	Average dB(μV)	Quasi Peak dB(μV)	Average dB(μV)
0.15 to 0.5	66 to 56	56 to 46	79	66
0.5 to 5	56	46	73	60
5 to 30	60	50	73	60

* Decreasing linearly with logarithm of the frequency

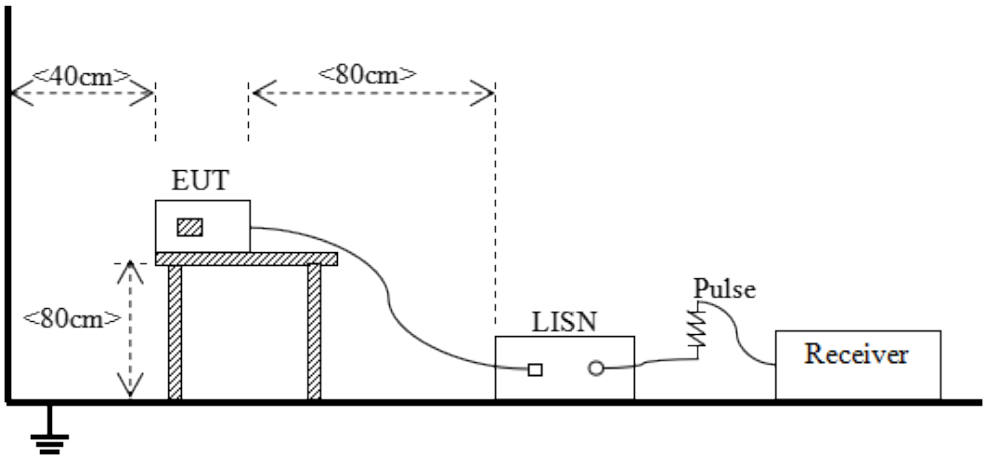
4.2 Test Procedure

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through an Artificial Mains Network (A.M.N.). A EMI test receiver used to test the emissions from both sides of AC line. The bandwidth of EMI test receiver is set at 9 kHz.

4.3 Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

4.4 Test Setup



4.5 Test Equipment

No.	Equipment	Manufacturer	Model No.	LAST CALIB	Period
SB4357	AMN	ROHDE&SCHWARZ	ENV216	2024-05-21	12 Months
SB9058/05	Test Receiver	ROHDE&SCHWARZ	ESCI3	2024-09-03	12 Months
SB9549	Shielded Room	Albatross	SR	2024-08-28	12 Months

4.6 Test Condition

Date of test: Nov.5,2024
Temperature: 23 ℃
Relative Humidity: 49 %RH
Atmospheric Pressure: 101.4 kPa

4.7 Test Data

Note: Emissions not reported below are too low against the prescribed limits. “/” means the test data is too low against the limit.

Classification of Equipment: Class B

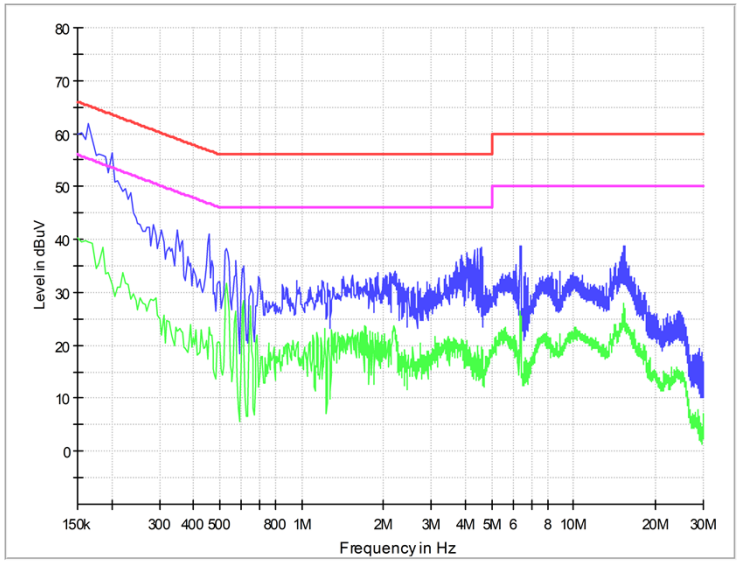
Table 4 Conducted Emission Test Data

Test mode: 1										
	Frequency (MHz)	Correction Factor (dB)	Quasi-Peak				Average			
			Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)
Line	0.165	10.1	47.1	57.2	65.2	8.0	27.9	38.0	55.2	17.2
Line	0.225	10.1	33.9	44.0	62.6	18.6	18.2	28.3	52.6	24.3
Line	0.455	10.1	19.1	29.2	56.8	27.6	8.8	18.9	46.8	27.9
Line	0.535	10.1	26.9	37.0	56.0	19.0	21.1	31.2	46.0	14.8
Line	4.455	10.0	19.4	29.4	56.0	26.6	6.4	16.4	46.0	29.6
Line	6.330	10.0	15.4	25.4	60.0	34.6	6.5	16.5	50.0	33.5
Neutral	0.150	10.1	47.0	57.1	66.0	8.9	27.4	37.5	56.0	18.5
Neutral	0.320	10.1	26.1	36.2	59.7	23.5	7.5	17.6	49.7	32.1
Neutral	0.475	10.1	23.5	33.6	56.4	22.8	8.5	18.6	46.4	27.8
Neutral	0.540	10.1	24.5	34.6	56.0	21.4	19.7	29.8	46.0	16.2
Neutral	4.320	10.0	20.2	30.2	56.0	25.8	8.1	18.1	46.0	27.9
Neutral	5.865	10.0	11.5	21.5	60.0	38.5	3.8	13.8	50.0	36.2

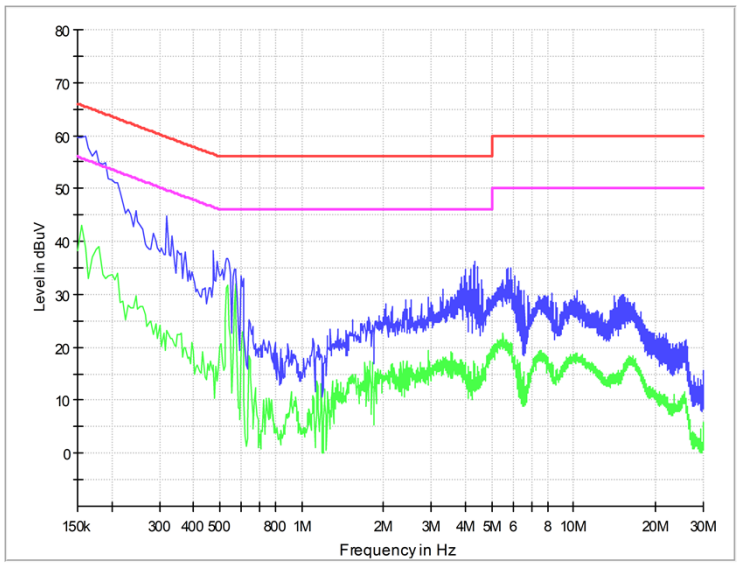
REMARKS: 1. Emission level (dBuV) =Read Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB) =LISN Factor (dB) + Cable Factor (dB) +Limiter Factor (dB)

Test Mode 1

Line



Neutral



5 RADIATED EMISSION TEST

5.1 Test Standard and Limit

5.1.1 Test Standard

FCC Part 15 Subpart B

5.1.2 Test Limit

Table 5 Radiated Emission Test Limit for FCC (Class A)

Frequency MHz	Test distance m	Limit dB(μV/m)		
		Quasi-peak	Average	Peak
30~88	10	39.1		
88~216		43.5		
216~960		46.4		
960~1000		49.5		
30~88	3	49.1		
88~216		53.5		
216~960		56.4		
960~1000		59.5		
>1000	3		59.5	79.5
Conditional testing procedure for above 1 GHz：				
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)		Upper frequency of measurement range (MHz)		
Below 1.705		30		
1.705~108		1000		
108~500		2000		
500~1000		5000		
Above 1000		5th harmonic of the highest frequency or 40 GHz, whichever is lower.		
* The lower limit shall apply at the transition frequency.				

Table 6 Radiated Emission Test Limit for FCC (Class B)

Frequency MHz	Test distance m	Limit dB(μV/m)		
		Quasi-peak	Average	Peak
30~88	10	30		
88~216		33.5		
216~960		36		
960~1000		44		
30~88	3	40		
88~216		43.5		
216~960		46		
960~1000		54		
>1000	3		54	74
Conditional testing procedure for above 1 GHz：				
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)		Upper frequency of measurement range (MHz)		
Below 1.705		30		

1.705~108	1000
108~500	2000
500~1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.
* The lower limit shall apply at the transition frequency.	

5.2 Test Procedure

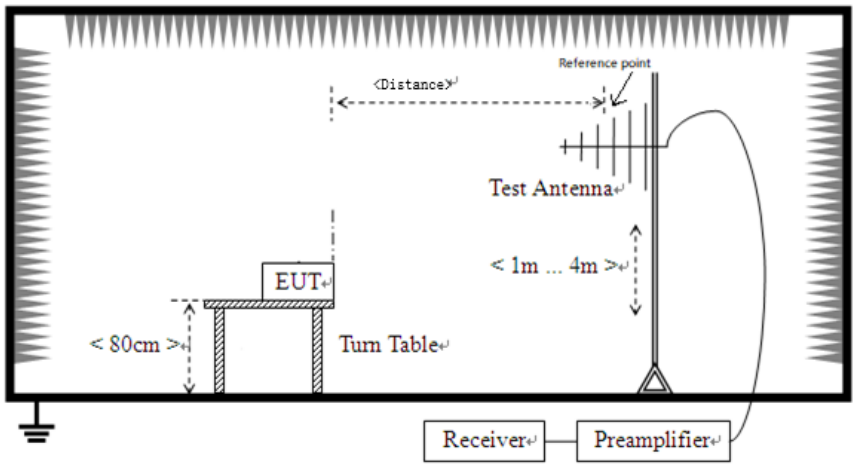
The EUT is placed on a turntable, which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3 meters or 10 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.
RBW = 100 kHz (less than or equal to 1 GHz); 1 MHz (above 1 GHz)
VBW ≥ 3 x RBW
Detector = Peak & Quasi-Peak (frequency range 30 MHz to 1 GHz);
Peak & Average (frequency range above 1 GHz);
Changing VBW to 10 Hz for average measurement
The use of a higher-than-specified video bandwidth produces a conservative measurement result.

5.3 Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

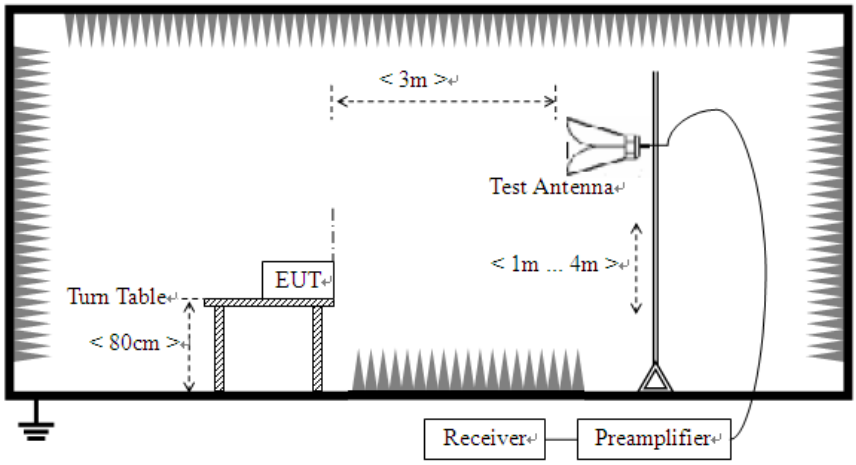
5.4 Test Setup

Below 1 GHz



Distance = 3 meters or 10 meters

Above 1 GHz



5.5 Test Equipment

No.	Equipment	Manufacturer	Model No.	LAST CALIB	Period
SB15044/01	Test Receiver	ROHDE&SCHWARZ	ESW8	2024-03-15	12 Months
SB18844	Anechoic chamber	Albatross	3mSAC	2024-03-19	12 Months
SB18856	Broadband Antenna	SCHWARZBECK	VULB9163	2024-08-26	12 Months
SB20321/02	Spectrum Analyzer	Rohde & Schwarz	FSW43	2024-04-22	12 Months
SB8501/11	Horn Antenna	ETS-Lindgren	3160-09	2023-02-22	36 Months
SB8501/12	Horn Antenna	ETS-Lindgren	3160-10	2023-02-22	36 Months
SB8501/16	Low Noise Amplifier	ROHDE&SCHWARZ	SCU-26	2024-01-16	12 Months
SB9059	Low Noise Amplifier	ROHDE&SCHWARZ	SCU-40	2024-08-19	12 Months
SB9422/16	Horn Antenna	ROHDE&SCHWARZ	HF907	2024-03-14	12 Months

5.6 Test Condition

Date of test: Nov.4,2024
Temperature: 24 ℃
Relative Humidity: 51 %RH
Atmospheric Pressure: 101.3 kPa

5.7 Test Data

Note: Emissions not reported below are too low against the prescribed limits. “/” means the test data is too low against the limit.

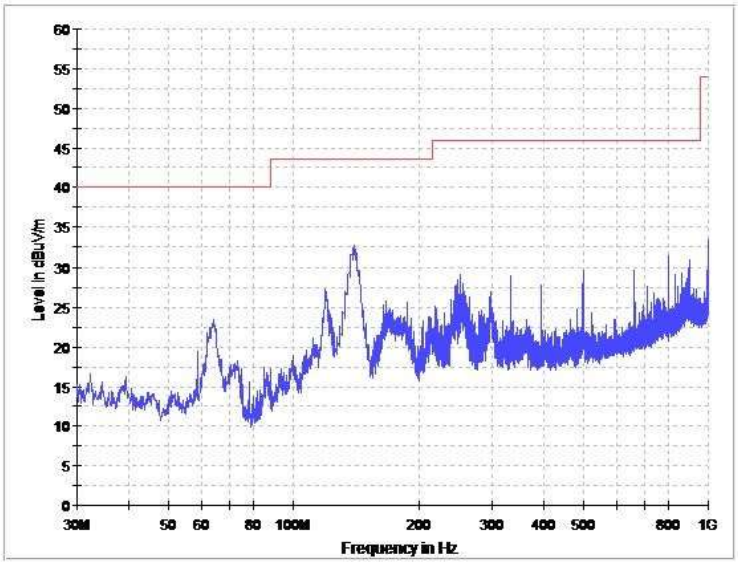
Classification of Equipment: Class B
Below 1 GHz Test Distance: 3 m

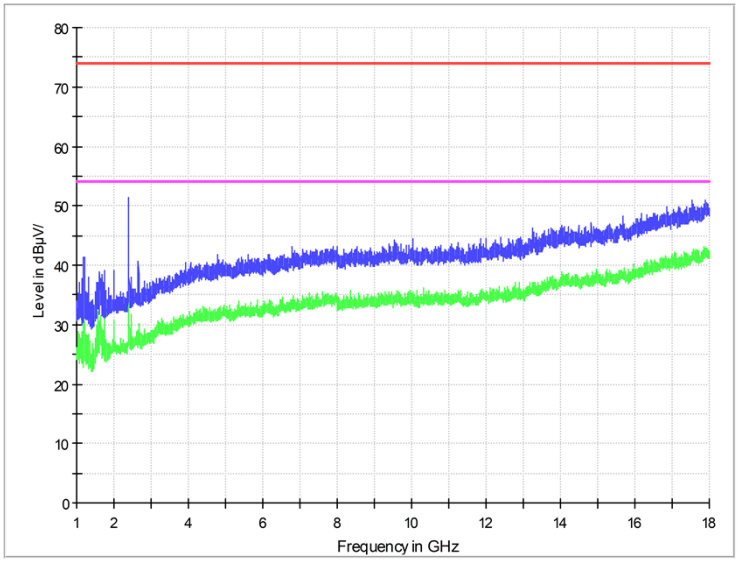
Table 7 Radiated Emission Test Data

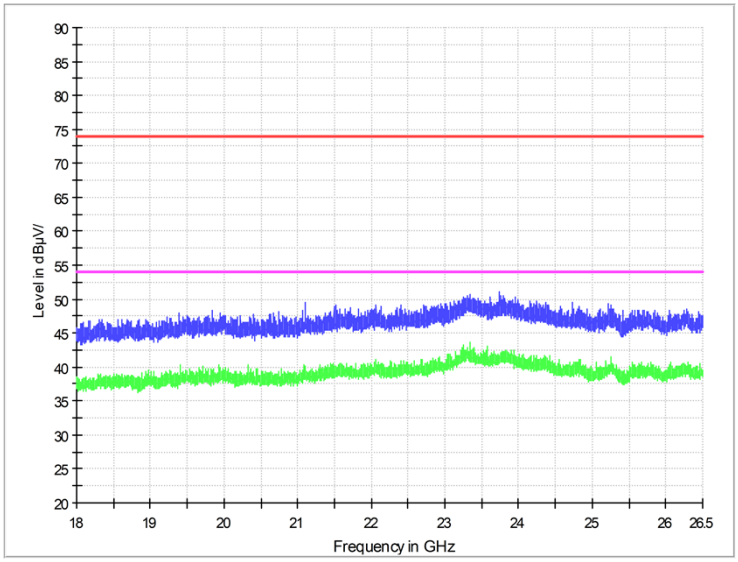
Test mode: 1								
Frequency (MHz)	Cable Loss +preamp (dB)	Antenna Factor (dB)	Reading Value (dBμV/m)	Emission Level (dBμV/m)	Polarity (Horizontal/ Vertical)	Limits (dBμV/m)	Margin (dB)	Note
135.622	1.0	8.2	23.1	32.3	V	43.5	11.2	QP
163.428	1.0	8.7	19.6	29.3	V	43.5	14.2	QP
192.421	1.2	10.6	18.0	29.8	V	43.5	13.7	QP
213.222	1.3	11.2	16.1	28.6	V	43.5	14.9	QP
224.431	1.3	11.2	16.6	29.1	V	46.0	16.9	QP
803.736	2.8	20.1	10.0	32.9	V	46.0	13.1	QP
119.347	0.9	10.5	14.8	26.2	H	43.5	17.3	QP
139.394	0.9	8.2	22.5	31.6	H	43.5	11.9	QP
166.123	1.0	9.0	15.3	25.3	H	43.5	18.2	QP
187.463	1.3	10.6	12.8	24.7	H	43.5	18.8	QP
252.022	1.5	12.1	14.5	28.1	H	46.0	17.9	QP
999.353	3.2	21.7	7.3	32.2	H	54.0	21.8	QP
2390.600	-38.4	28.6	61.2	51.4	H	74.0	22.6	PK
17903.100	-30.2	43.7	37.4	50.9	H	74.0	23.1	PK
1195.500	-40.0	24.3	64.1	48.4	V	74.0	25.6	PK
17620.900	-30.5	43.1	38.4	51.0	V	74.0	23.0	PK
2390.600	-38.4	28.6	53.0	43.2	H	54.0	10.8	AV
17903.100	-30.2	43.7	29.5	43.0	H	54.0	11.0	AV
1195.500	-40.0	24.3	58.4	42.7	V	54.0	11.3	AV
17620.900	-30.5	43.1	30.1	42.7	V	54.0	11.3	AV
23338.400	-32.5	43.7	39.5	50.7	H	74.0	23.3	PK
23738.100	-33.0	43.7	40.3	51.0	H	74.0	23.0	PK
23145.800	-33.9	43.7	40.8	50.6	V	74.0	23.4	PK
23807.100	-33.0	43.7	39.7	50.4	V	74.0	23.6	PK
23338.400	-32.5	43.7	32.4	43.6	H	54.0	10.4	AV
23738.100	-33.0	43.7	31.8	42.5	H	54.0	11.5	AV
23145.800	-33.9	43.7	33.1	42.9	V	54.0	11.1	AV
23807.100	-33.0	43.7	31.9	42.6	V	54.0	11.4	AV
38929.600	-26.3	43.7	36.9	54.3	H	74.0	19.7	PK
39849.600	-24.0	43.7	34.1	53.8	H	74.0	20.2	PK
38979.800	-26.3	43.7	36.3	53.7	V	74.0	20.3	PK
39873.200	-24.0	43.7	34.5	54.2	V	74.0	19.8	PK
38929.600	-26.3	43.7	29.0	46.4	H	54.0	7.6	AV
39849.600	-24.0	43.7	26.7	46.4	H	54.0	7.6	AV
38979.800	-26.3	43.7	29.3	46.7	V	54.0	7.3	AV
39873.200	-24.0	43.7	26.3	46.0	V	54.0	8.0	AV

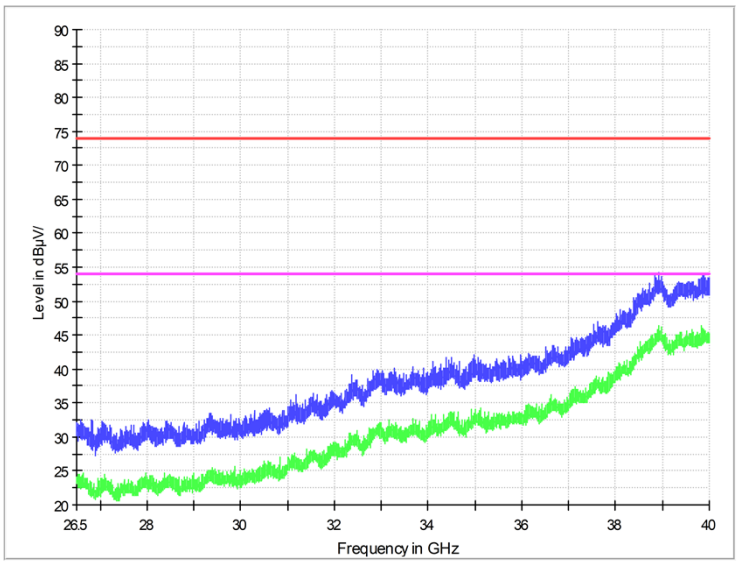
REMARKS: Emission level (dBuV)=Read Value(dBuV/m) + Antenna Factor(dB)+ Cable Loss +preamp(dB)

Test Mode 1
Horizontal

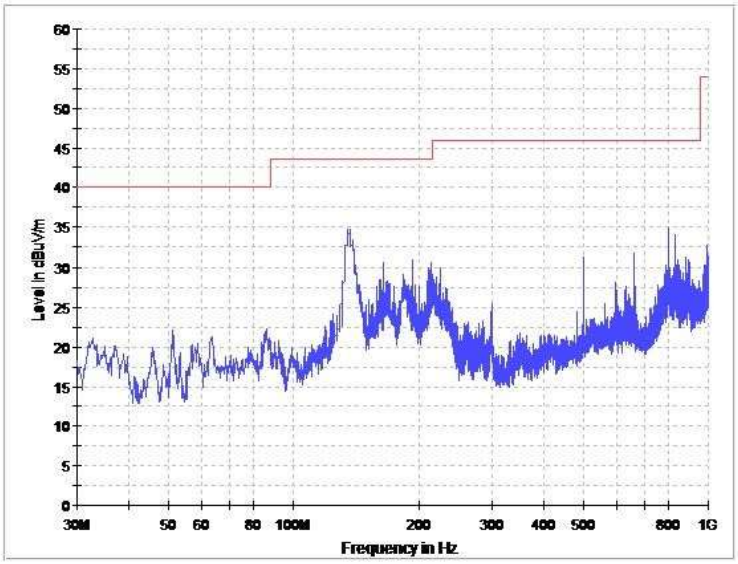


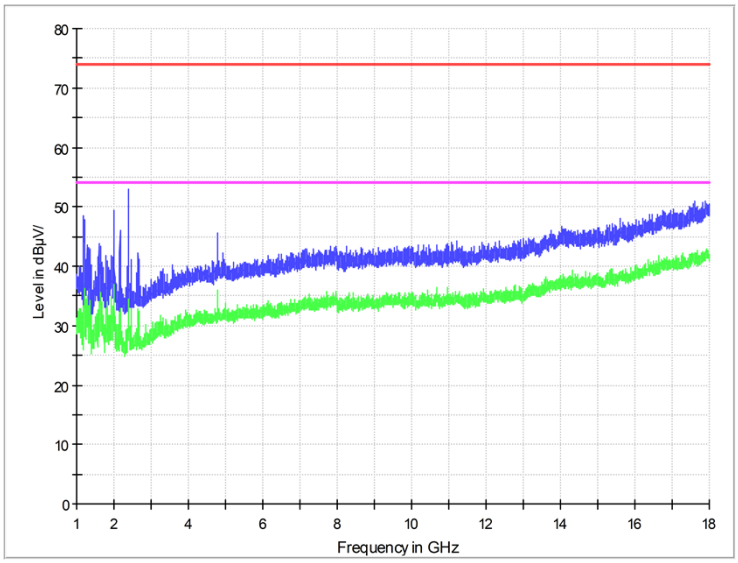


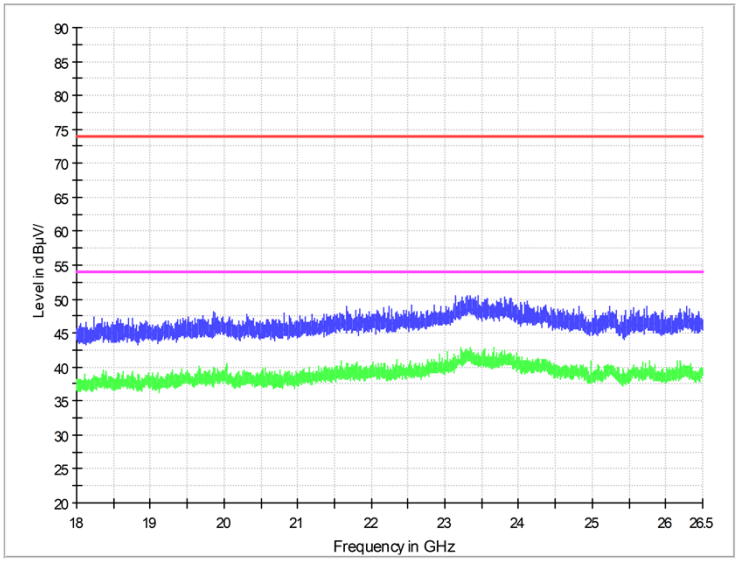

Level in dBµV/
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
18
19
20
21
22
23
24
25
26
26.5
Frequency in GHz

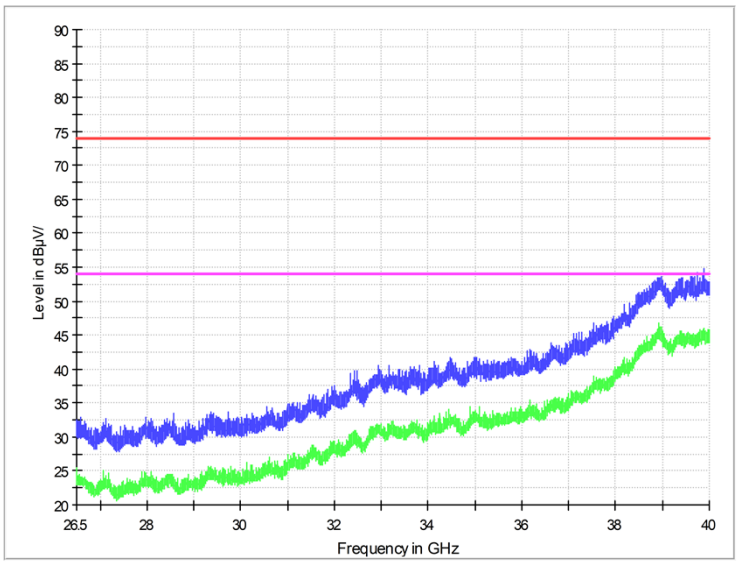

Level in dBµV/
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
26.5
28
30
32
34
36
38
40
Frequency in GHz

Vertical


Level in dBµV/m
Frequency in Hz
30M
50
60
80
100M
200
300
400
500
800
1G


Level in dBµV/
Frequency in GHz





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