

TEST REPORT

For

Watch

Model Number: OPWE242

FCC ID: 2ABZ2-OPWE242

IC: 12739A-OPWE242

Report Number : WT248002347

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

No	Date	Remark
V1.0	2025.01.14	Initial issue

TEST REPORT DECLARATION

Applicant : OnePlus Technology (Shenzhen) Co., Ltd.
Address : 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building,
Binhe Avenue North, Futian District, Shenzhen, Guangdong,
518100, P.R. China
Manufacturer : OnePlus Technology (Shenzhen) Co., Ltd.
Address : 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building,
Binhe Avenue North, Futian District, Shenzhen, Guangdong,
518100, P.R. China
EUT Description : Watch
Model No. : OPWE242
HVIN : OPWE242
Trade mark : ONEPLUS
Serial Number : /

Test Standards:

FCC Part 15 Subpart B ICES-003 Issue 7 (2020-10)

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results.

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

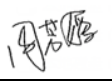
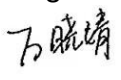
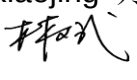
Project Engineer:	 (Zhou Fangai 周芳媛)	Date:	Jan.14, 2025
Checked by:	 (Wan Xiaojing 万晓婧)	Date:	Jan.14, 2025
Approved by:	 (Lin Bin 林斌)	Date:	Jan.14, 2025

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1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	Test Results
Conducted Emission	Pass
Radiation 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.

The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

The lab will not be liable for any loss or damage resulting for false, inaccurate, inappropriate or incomplete product information provided by the applicant/manufacturer.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at NETC Building, No.4 Tongfa Rd., Xili, Nanshan, Shenzhen, China. At the time of testing, Laboratory is accredited by the following organizations:

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 number CN1165 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

9 kHz~150 kHz $U=3.7\text{dB}$ $k=2$

150 kHz~30MHz $U=3.3\text{dB}$ $k=2$

Radiated Emission

30MHz~1000MHz $U=4.3\text{dB}$ $k=2$

1GHz~6GHz $U=4.6\text{ dB}$ $k=2$

6GHz~40GHz $U=5.1\text{dB}$ $k=2$

3. PRODUCT DESCRIPTION

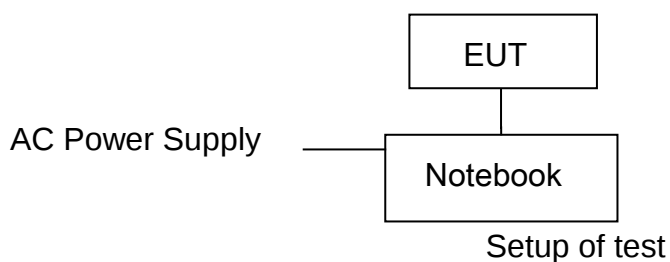
NOTE: The extreme test conditions for temperature and antenna gain were declared by the manufacturer.

3.1.EUT Description

Description	: Watch
Manufacturer	: OnePlus Technology (Shenzhen) Co., Ltd.
Model Number	: OPWE242
Operating voltage	: DC 3.52 V (Low)/ DC 3.92 V (Normal)/ DC 4.53 V (Max)
Test voltage	: AC 120 V/ 60 Hz
Software Version	: OPWE242_11_A.02
Hardware Version	: XK935
Frequency	: BT: 2402 MHz ~ 2480 MHz 2.4GWiFi: 2412 MHz~2462 MHz 5GWiFi: U-NII 1 (5180~5240 MHz) U-NII 2A (5260~5320 MHz) U-NII 2C (5500~5700 MHz) U-NII 3 (5745~5820 MHz) NFC: 13.56 MHz
Type(s) of Modulation	: DSSS (DBPSK, DQPSK, CCK) for 802.11b OFDM (BPSK, QPSK, 16QAM, 64QAM) for 802.11a/g/n Bluetooth: GFSK, pi/4-DQPSK, 8DPSK NFC: ASK
Antenna Type	: BT: Monopole antenna -3.5 dBi 2.4GWiFi: Monopole antenna -3.5 dBi 5G WiFi: Monopole antenna -0.5 dBi

Remark: --

3.2.Block Diagram of EUT Configuration



3.3.Operating Condition of EUT

Test mode 1: Connected to a pc and data transmission.

Test Mode 2: Wi-Fi Link

Test Mode 3: Bluetooth Link

Test Mode 4: Charging

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
Rechargeable Li-ion Polymer Battery	BLW018	---	Dongguan NVT Technology Limited
USB Cable	DL154	---	---
Charging Base	ODP52	---	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Adapter	VCB3HDUH	---	HUIZHOU GOLDEN LAKE INDUSTRIAL CO., LTD.
Notebook	HP ProBook 440 G6	---	HP

3.5. Test Conditions

Date of test : Dec.17, 2024- Dec.20, 2024

Date of EUT Receive : Dec.10, 2024

Temperature: 21 °C-26 °C

Relative Humidity: 47 %-49 %

3.6. Modifications

No modification was made.

4. TEST EQUIPMENT USED

Table 3 Test Equipment List

No.	Equipment	Manufacturer	Model No.	LAST CALIB	Period
Conducted Emission					
SB9054/05	Test Receiver	R&S	ESCI	Jun.29,2024	1 Year
SB8501/06	AMN	R&S	ESH2-Z5	Jan.16,2024	1 Year
SB9548	Shielded Room	Albatross	SR	Aug.28,2024	1 Year
Radiated Emission					
SB15044/01	Test Receiver	R&S	ESW8	Mar.15,2024	1 Year
SB18856	Broadband Antenna	SCHWARZBECK	VULB9163	Aug.26,2024	1 Year
SB9422/16	Horn Antenna	R&S	HF907	Mar.14,2024	1 Year
SB20321/02	Spectrum Analyzer	R&S	FSW43	Apr.22, 2024	1 Year
SB8501/11	Antenna	R&S	3160-09	Feb.22,2023	3 Years
SB8501/12	Antenna	R&S	3160-10	Feb.22,2023	3 Years
SB8501/16	Pre-Amplifier	R&S	SCU-26	Jan.16,2024	1 Year
SB9059	Pre-Amplifier	R&S	SCU-40	Aug.19,2024	1 Year
SB18844	Semi Anechoic Chamber	Albatross	9×6×6(m)	Mar.19,2024	1 Year

5. CONDUCTED EMISSION TEST

5.1. Test Standard and Limit

5.1.1. Test Standard

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5.1.2. Test Limit

Table 4 Conducted Emission Test Limit (Class B)

Frequency	Power Port limits (dB μ V)	
	Quasi-peak	Average
0.15MHz ~ 0.5MHz	66~56*	56~46*
0.5MHz ~ 5 MHz	56	46
5 MHz ~ 30MHz	60	50

* Decreasing linearly with logarithm of the frequency

5.2. Test Procedure

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

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 Data

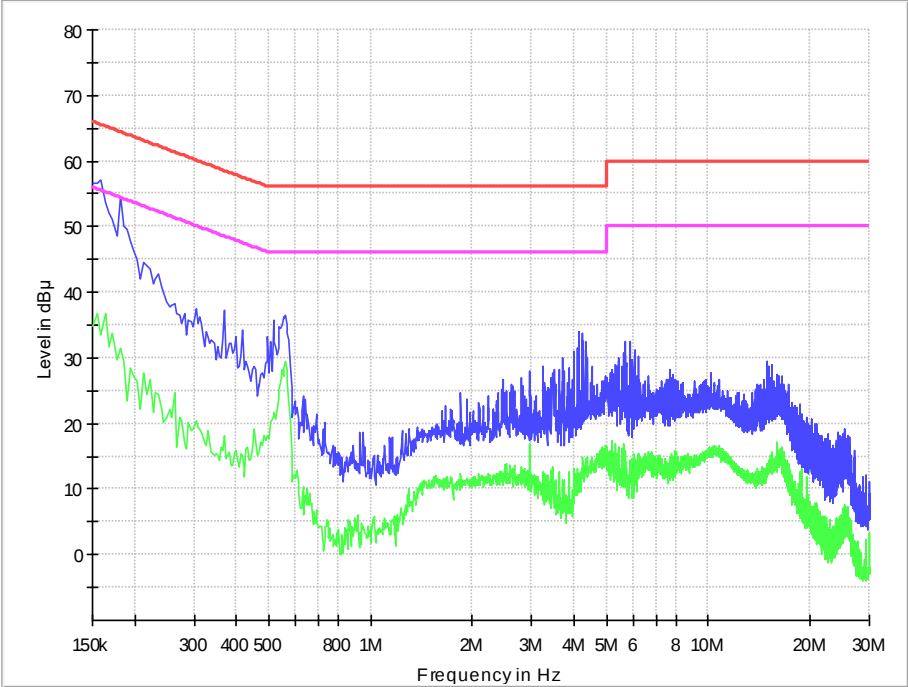
The emissions don't show in below are too low against the limits. Refer to the test curves.

Table 5 Conducted Emission Test Data at mains Port

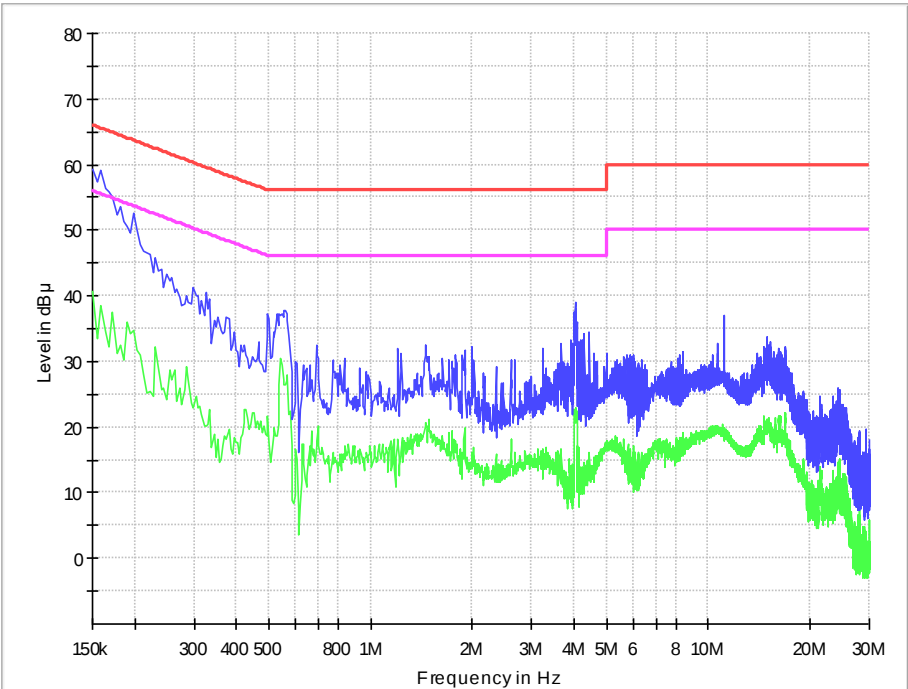
Test mode: 1								
	Frequency (MHz)	Correction Factor (dB)	Quasi-Peak			Average		
			Reading (dB μ V)	Emission Level (dB μ V)	Limits (dB μ V)	Reading (dB μ V)	Emission Level (dB μ V)	Limits (dB μ V)
Line	0.150	9.7	41.2	50.9	66	24.5	34.2	56
	0.179	9.7	41.5	51.2	64.5	20.5	30.2	54.5
	0.217	9.7	32.4	42.1	62.9	14.8	24.5	52.9
	0.559	9.8	23.8	33.6	56	20.0	29.8	46
	3.167	9.9	15.7	25.6	56	2.9	12.8	46
	4.137	9.9	20.3	30.2	56	4.3	14.2	46
Neutral	0.150	9.7	48.5	58.2	66	29.7	39.4	56
	0.172	9.7	43.4	53.1	64.9	26.5	36.2	54.9
	0.199	9.7	39.9	49.6	63.7	25.7	35.4	53.7
	1.451	9.8	19.0	28.8	56	11.4	21.2	46
	0.555	9.8	26.1	35.9	56	19.0	28.8	46
	3.977	9.9	24.8	34.7	56	12.8	22.7	46

REMARKS: 1. Emission level (dB μ V) =Read Value (dB μ V) + Correction Factor (dB)
2. Correction Factor (dB) =LISN Factor (dB) + Cable Factor (dB) +Limiter Factor (dB)
3. The other emission levels were more than 20dB below the limits.

Line



Neutral



6. RADIATION EMISSION TEST

6.1. Test Standard and Limit

6.1.1. Test Standard

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6.1.2. Test Limit

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

Frequency	Test distance	Limit dB(μV/m)		
		Quasi-peak	Average	Peak
30MHz~88MHz	3m	40		
88MHz~216MHz	3m	43.5		
216MHz~960MHz	3m	46		
960MHz~1000MHz	3m	54		
>1000MHz	3m		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.

* The test distance is 3m.

Table 7 Radiation Emission Test Limit for ICES (30MHz to 1GHz) (Class B)

Frequency (MHz)	Radiated Limit (dBμV/m)
	Quasi-peak
30 to 88	40.0
88 to 216	43.5
216 to 230	46.0
230 to 960	47.0
960 to 1000	54.0

Table 8 Radiation Emission Test Limit for ICES (Above 1GHz)

Frequency range (GHz)	Class B Average dB(μV/m)	Class B Peak dB(μV/m)
>1	54	74

* The lower limit shall apply at the transition frequency.

* The test distance is 3m.

6.2. 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** 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.

6.3. 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.

6.4. Test Data

The emissions don't show in below are too low against the limits. Refer to the test curves.

Table 9 Radiated Emission Test Data (FCC)

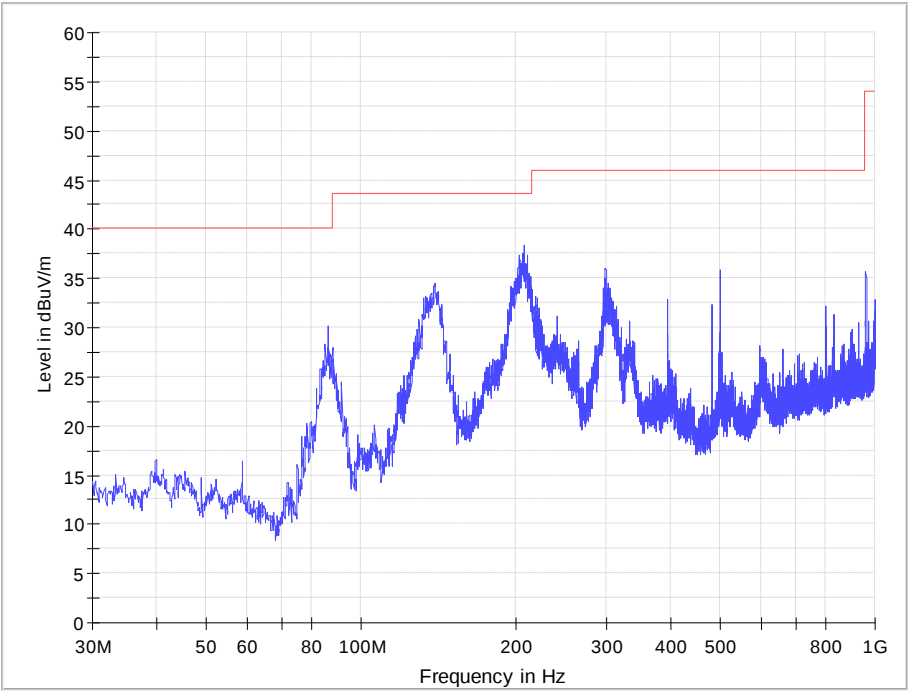
Test mode: 1								
Frequency (MHz)	Cable Loss +preamp (dB)	Antenna Factor (dB)	Reading (dBμV/m)	Level (dBμV/m)	Polarity (Horizontal/ Vertical)	Limits (dBμV/m)	Margin (dB)	Note
137.131	1.4	8.9	23.8	34.1	Vertical	43.5	9.4	QP
205.138	1.6	10.6	18.1	30.3	Vertical	43.5	13.2	QP
302.138	2.0	13.1	12.2	27.3	Vertical	46	18.7	QP
662.547	3.1	18.5	7.6	29.2	Vertical	46	16.8	QP
804.060	3.6	20.1	8.9	32.6	Vertical	46	13.4	QP
86.044	1.1	10.3	12.6	24.0	Horizontal	40	16.0	QP
138.855	1.3	8.9	20.4	30.6	Horizontal	43.5	12.9	QP
206.971	1.7	10.6	21.7	34.0	Horizontal	43.5	9.5	QP
299.013	2.1	12.7	15.8	30.6	Horizontal	46	15.4	QP
499.911	2.7	16.1	11.6	30.4	Horizontal	46	15.6	QP

1751.400	-40.5	26.7	60.3	46.5	Horizontal	74	27.5	PK
2390.600	-40.2	28.3	64.9	53.0	Horizontal	74	21.0	PK
1794.560	-40.5	26.7	69.7	55.9	Horizontal	74	18.1	PK
1663.000	-40.6	26.7	67.7	53.8	Vertical	74	20.2	PK
1921.400	-40.4	26.9	68.8	55.3	Vertical	74	18.7	PK
2657.500	-39.9	29.6	64.5	54.2	Vertical	74	19.8	PK
1751.400	-40.5	26.7	54.4	40.6	Horizontal	54	13.4	AV
2390.600	-40.2	28.3	37.9	26.0	Horizontal	54	28.0	AV
1794.560	-40.5	26.7	55.2	41.4	Horizontal	54	12.6	AV
1663.000	-40.6	26.7	36.8	22.9	Vertical	54	31.1	AV
1921.400	-40.4	26.9	44.0	30.5	Vertical	54	23.5	AV
2657.500	-39.9	29.6	35.8	25.5	Vertical	54	28.5	AV
18952.850	-32.7	43.7	37.5	48.5	Vertical	74	25.5	PK
21977.150	-32.7	43.7	37.3	48.3	Vertical	74	25.7	PK
24245.800	-32.7	43.7	38.7	49.7	Vertical	74	24.3	PK
18960.500	-32.7	43.7	37.1	48.1	Horizontal	74	25.9	PK
21455.250	-32.7	43.7	37.4	48.4	Horizontal	74	25.6	PK
24092.800	-32.7	43.7	39.9	50.9	Horizontal	74	23.1	PK
18952.850	-32.7	43.7	23.8	34.8	Vertical	54	19.2	AV
21977.150	-32.7	43.7	23.6	34.6	Vertical	54	19.4	AV
24245.800	-32.7	43.7	24.9	35.9	Vertical	54	18.1	AV
18960.500	-32.7	43.7	23.4	34.4	Horizontal	54	19.6	AV
21455.250	-32.7	43.7	23.5	34.5	Horizontal	54	19.5	AV
24092.800	-32.7	43.7	26.0	37.0	Horizontal	54	17.0	AV
38929.450	-32.7	43.7	44.6	55.6	Vertical	74	18.4	PK
39488.350	-32.7	43.7	44.9	55.9	Vertical	74	18.1	PK
39840.700	-32.7	43.7	45.5	56.5	Vertical	74	17.5	PK
38813.350	-32.7	43.7	45.6	56.6	Horizontal	74	17.4	PK
39014.500	-32.7	43.7	45.0	56.0	Horizontal	74	18.0	PK
39774.550	-32.7	43.7	45.2	56.2	Horizontal	74	17.8	PK
38929.450	-32.7	43.7	31.2	42.2	Vertical	54	11.8	AV
39488.350	-32.7	43.7	32.2	43.2	Vertical	54	10.8	AV
39840.700	-32.7	43.7	32.1	43.1	Vertical	54	10.9	AV
38813.350	-32.7	43.7	31.6	42.6	Horizontal	54	11.4	AV
39014.500	-32.7	43.7	31.4	42.4	Horizontal	54	11.6	AV
39774.550	-32.7	43.7	31.7	42.7	Horizontal	54	11.3	AV

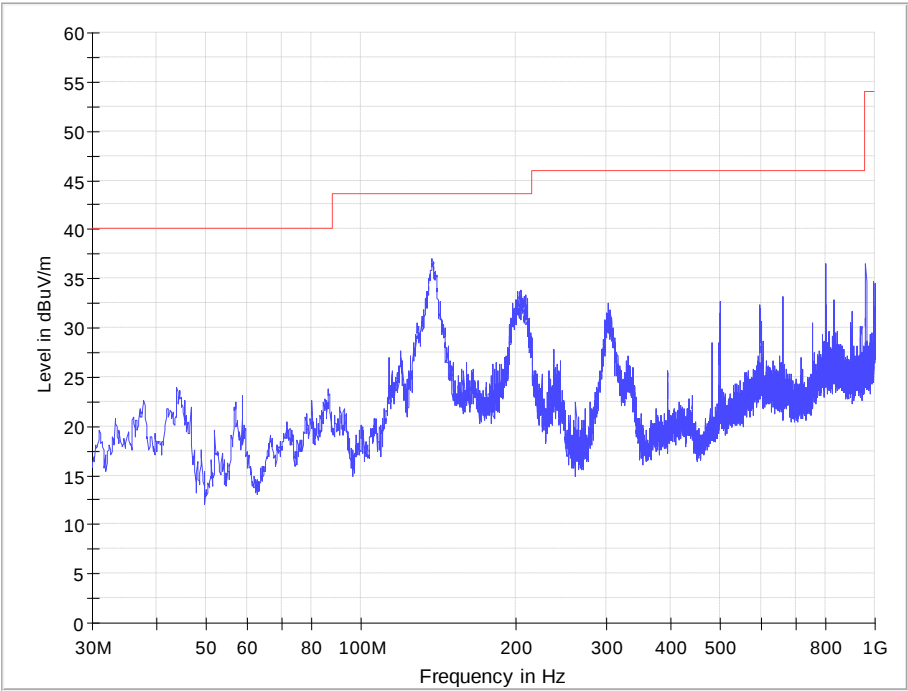
Emission level (dBuV)=Read Value(dBuV/m) + Antenna Factor(dB)+ Cable Loss +preamp(dB)

30 MHz-1 GHz

Horizontal

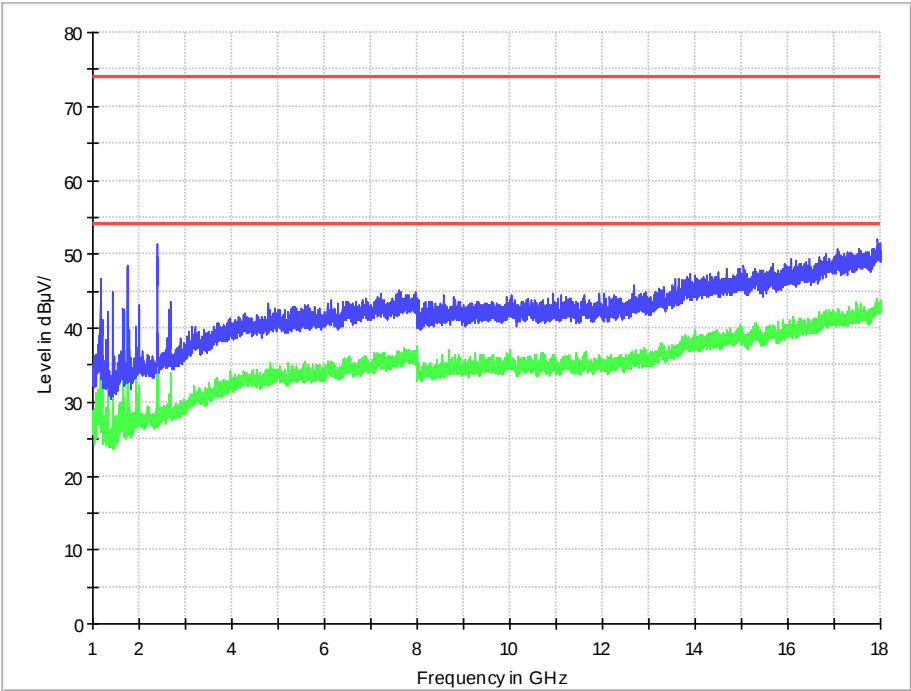


Vertical

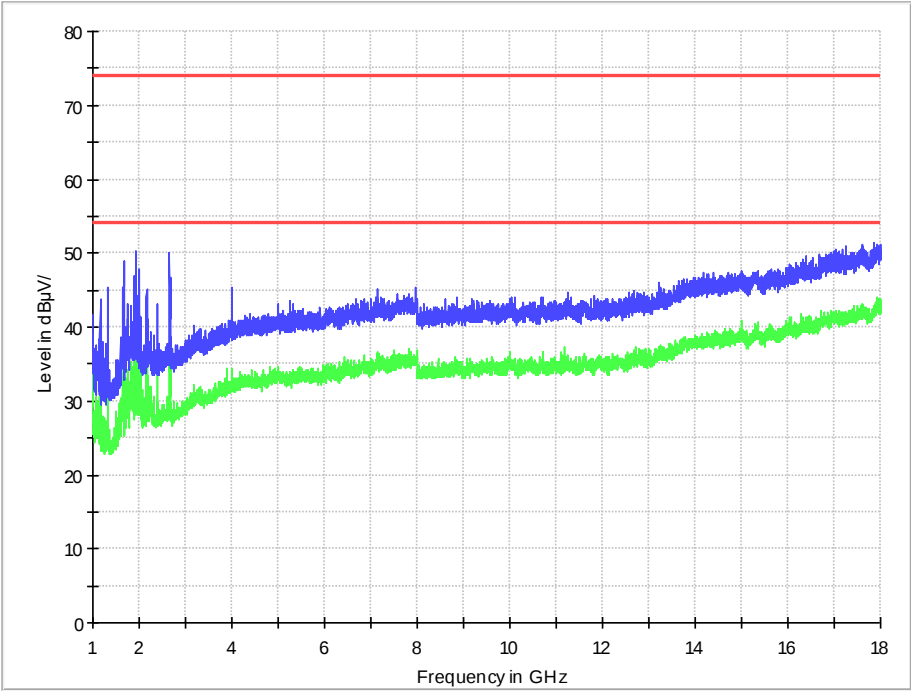


1 GHz-18 GHz

Horizontal

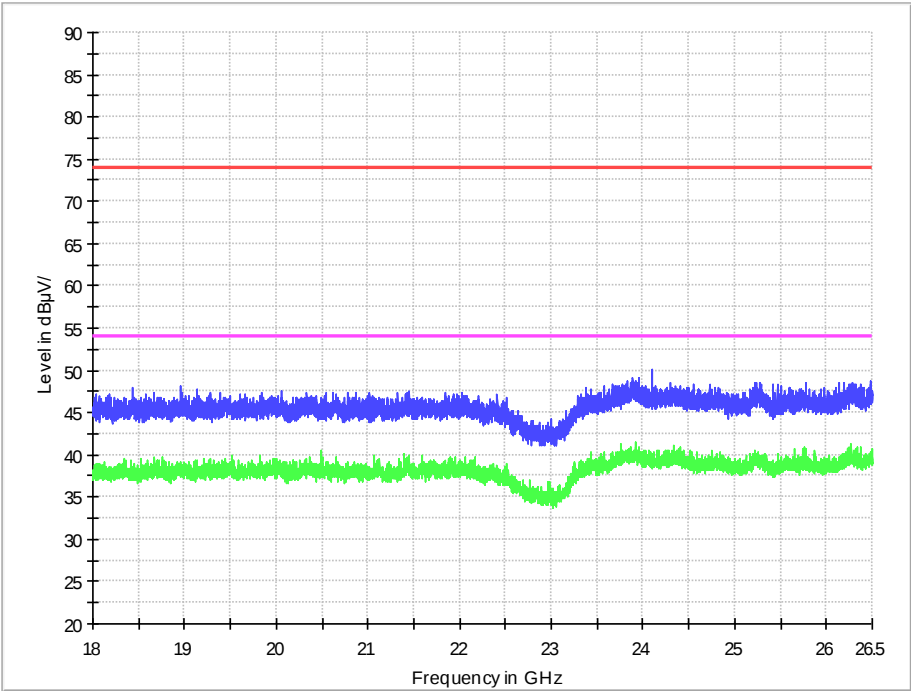


Vertical

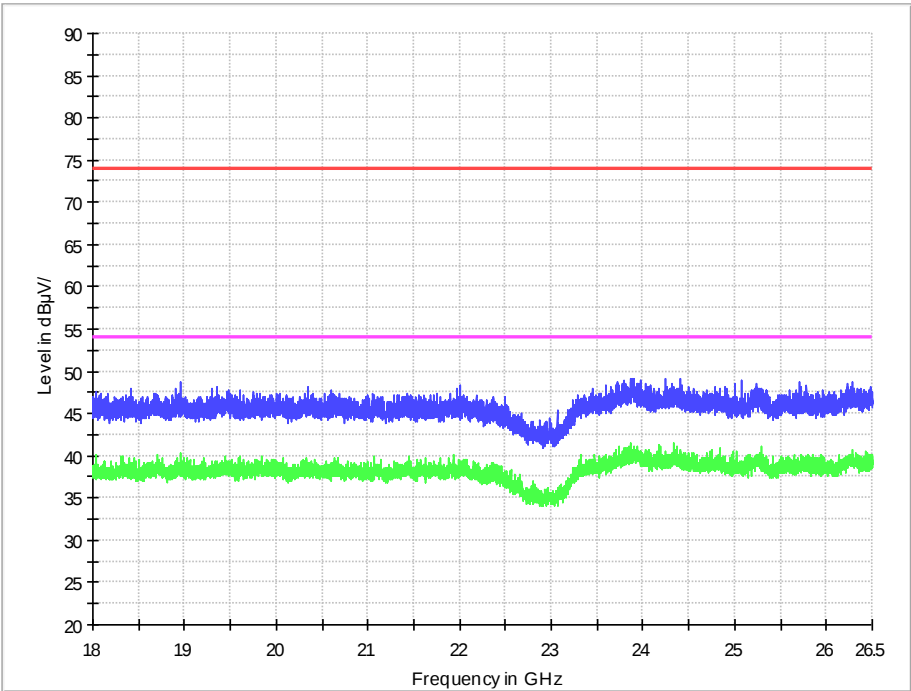


18 GHz-26.5 GHz

Horizontal

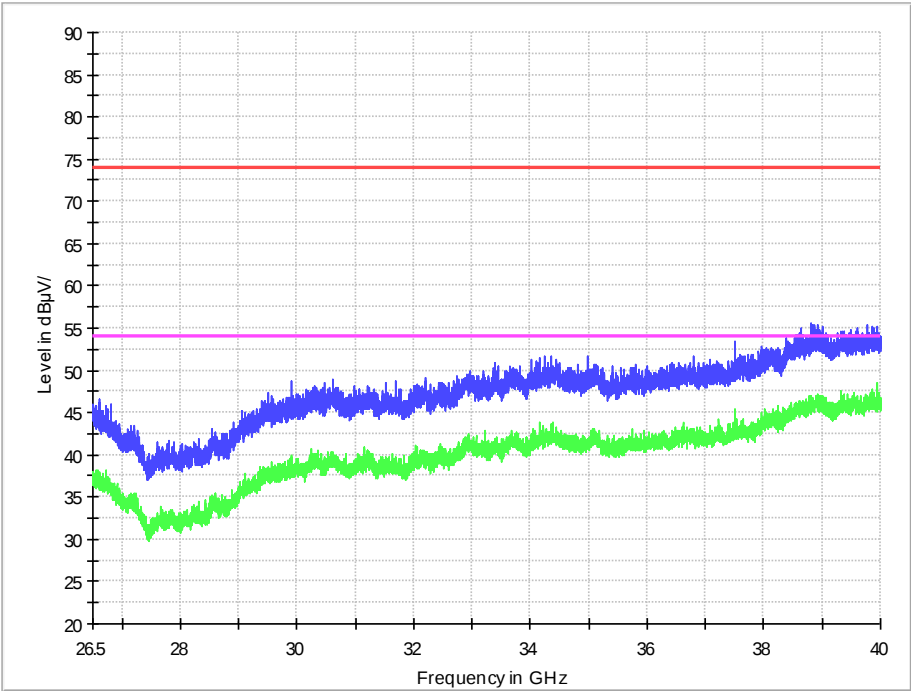


Vertical



26.5 GHz-40 GHz

Horizontal



Vertical

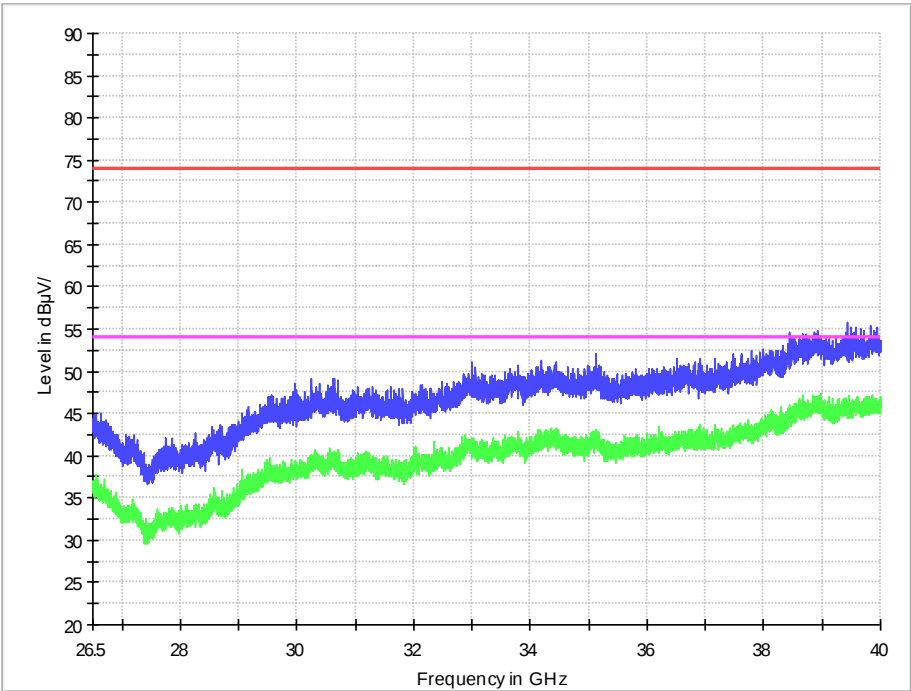


Table 10 Radiated Emission Test Data (ICES)

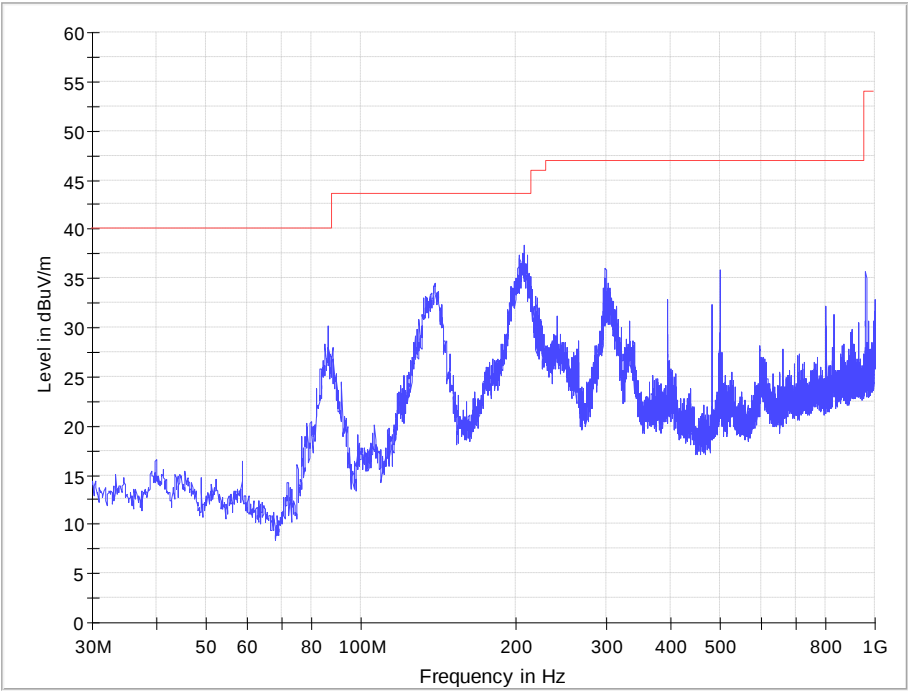
Test mode: 1								
Frequency (MHz)	Cable Loss +preamp (dB)	Antenna Factor (dB)	Reading (dBµV/m)	Level (dBµV/m)	Polarity (Horizontal/ Vertical)	Limits (dBµV/m)	Margin (dB)	Note
137.131	1.4	8.9	23.8	34.1	Vertical	43.5	9.4	QP
205.138	1.6	10.6	18.1	30.3	Vertical	43.5	13.2	QP
302.138	2.0	13.1	12.2	27.3	Vertical	47.0	19.7	QP
662.547	3.1	18.5	7.6	29.2	Vertical	47.0	17.8	QP
804.060	3.6	20.1	8.9	32.6	Vertical	47.0	14.4	QP
86.044	1.1	10.3	12.6	24.0	Horizontal	40	16.0	QP
138.855	1.3	8.9	20.4	30.6	Horizontal	43.5	12.9	QP
206.971	1.7	10.6	21.7	34.0	Horizontal	43.5	9.5	QP
299.013	2.1	12.7	15.8	30.6	Horizontal	47.0	16.4	QP
499.911	2.7	16.1	11.6	30.4	Horizontal	47.0	16.6	QP
1751.400	-40.5	26.7	60.3	46.5	Horizontal	74	27.5	PK
2390.600	-40.2	28.3	64.9	53.0	Horizontal	74	21.0	PK
1794.560	-40.5	26.7	69.7	55.9	Horizontal	74	18.1	PK
1663.000	-40.6	26.7	67.7	53.8	Vertical	74	20.2	PK
1921.400	-40.4	26.9	68.8	55.3	Vertical	74	18.7	PK
2657.500	-39.9	29.6	64.5	54.2	Vertical	74	19.8	PK
1751.400	-40.5	26.7	54.4	40.6	Horizontal	54	13.4	AV
2390.600	-40.2	28.3	37.9	26.0	Horizontal	54	28.0	AV
1794.560	-40.5	26.7	55.2	41.4	Horizontal	54	12.6	AV
1663.000	-40.6	26.7	36.8	22.9	Vertical	54	31.1	AV
1921.400	-40.4	26.9	44.0	30.5	Vertical	54	23.5	AV
2657.500	-39.9	29.6	35.8	25.5	Vertical	54	28.5	AV
18952.850	-32.7	43.7	37.5	48.5	Vertical	74	25.5	PK
21977.150	-32.7	43.7	37.3	48.3	Vertical	74	25.7	PK
24245.800	-32.7	43.7	38.7	49.7	Vertical	74	24.3	PK
18960.500	-32.7	43.7	37.1	48.1	Horizontal	74	25.9	PK
21455.250	-32.7	43.7	37.4	48.4	Horizontal	74	25.6	PK
24092.800	-32.7	43.7	39.9	50.9	Horizontal	74	23.1	PK
18952.850	-32.7	43.7	23.8	34.8	Vertical	54	19.2	AV
21977.150	-32.7	43.7	23.6	34.6	Vertical	54	19.4	AV
24245.800	-32.7	43.7	24.9	35.9	Vertical	54	18.1	AV
18960.500	-32.7	43.7	23.4	34.4	Horizontal	54	19.6	AV
21455.250	-32.7	43.7	23.5	34.5	Horizontal	54	19.5	AV
24092.800	-32.7	43.7	26.0	37.0	Horizontal	54	17.0	AV
38929.450	-32.7	43.7	44.6	55.6	Vertical	74	18.4	PK
39488.350	-32.7	43.7	44.9	55.9	Vertical	74	18.1	PK
39840.700	-32.7	43.7	45.5	56.5	Vertical	74	17.5	PK

38813.350	-32.7	43.7	45.6	56.6	Horizontal	74	17.4	PK
39014.500	-32.7	43.7	45.0	56.0	Horizontal	74	18.0	PK
39774.550	-32.7	43.7	45.2	56.2	Horizontal	74	17.8	PK
38929.450	-32.7	43.7	31.2	42.2	Vertical	54	11.8	AV
39488.350	-32.7	43.7	32.2	43.2	Vertical	54	10.8	AV
39840.700	-32.7	43.7	32.1	43.1	Vertical	54	10.9	AV
38813.350	-32.7	43.7	31.6	42.6	Horizontal	54	11.4	AV
39014.500	-32.7	43.7	31.4	42.4	Horizontal	54	11.6	AV
39774.550	-32.7	43.7	31.7	42.7	Horizontal	54	11.3	AV

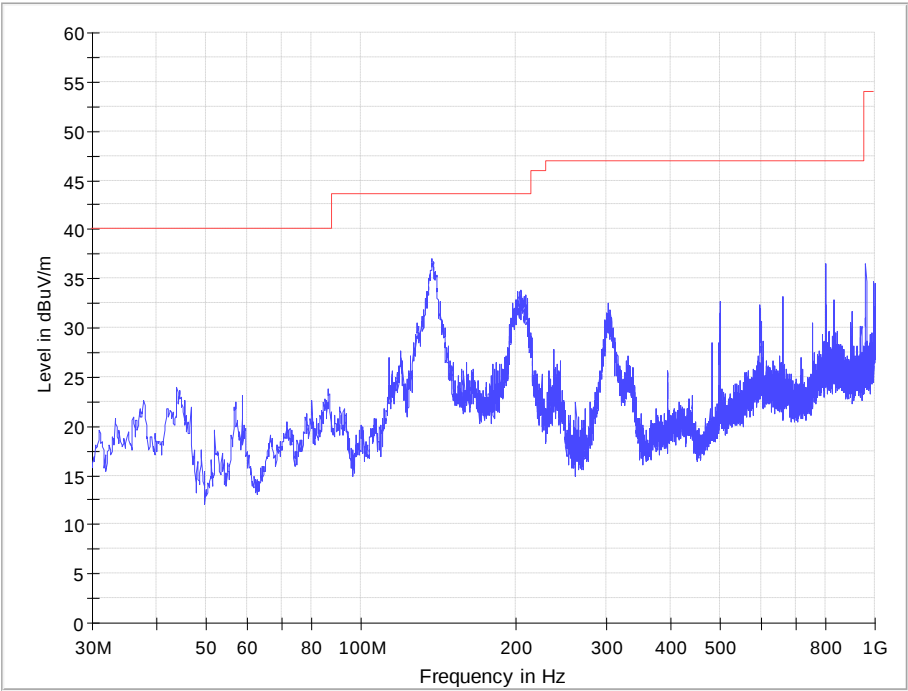
Emission level (dBuV)=Read Value(dBuV/m) + Antenna Factor(dB)+ Cable Loss +preamp(dB)

30 MHz-1 GHz

Horizontal

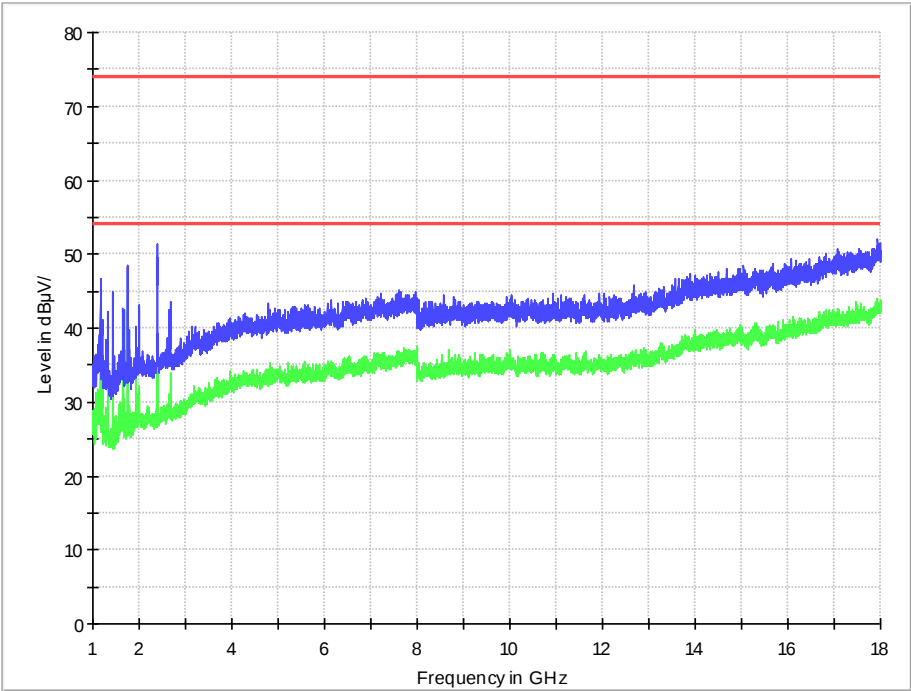


Vertical

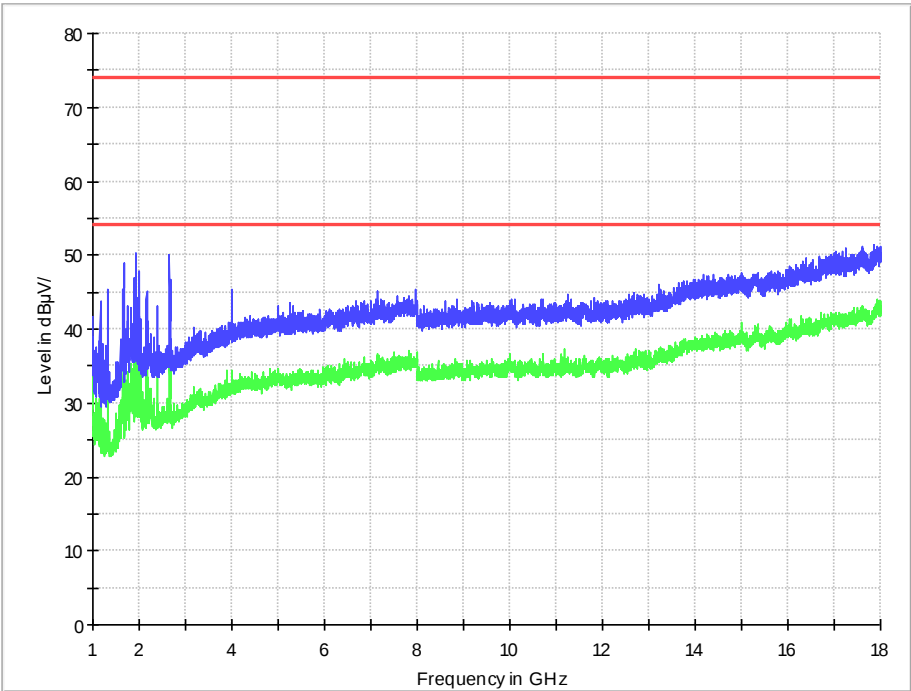


1 GHz-18 GHz

Horizontal

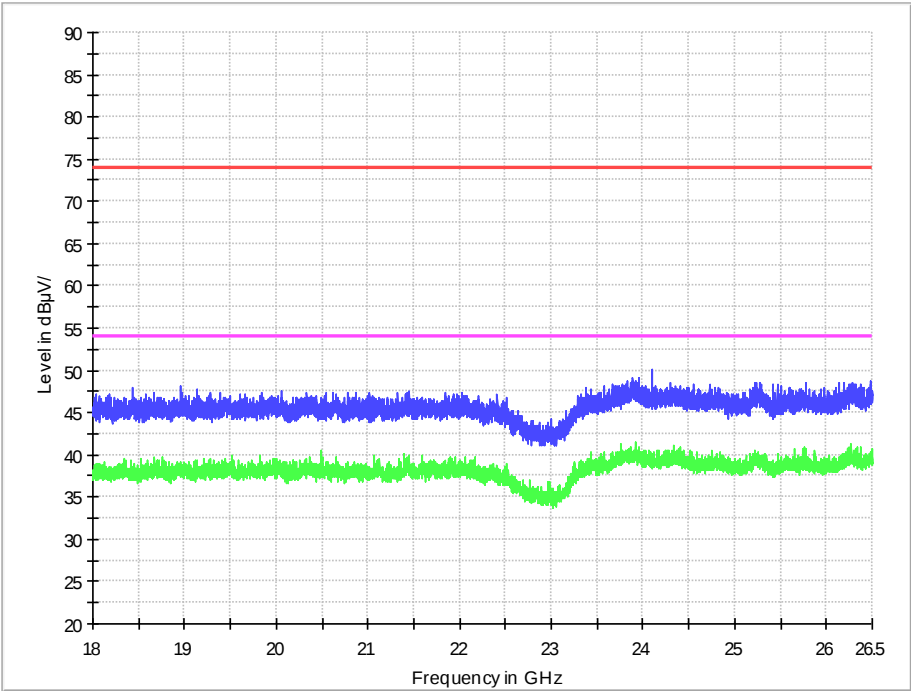


Vertical

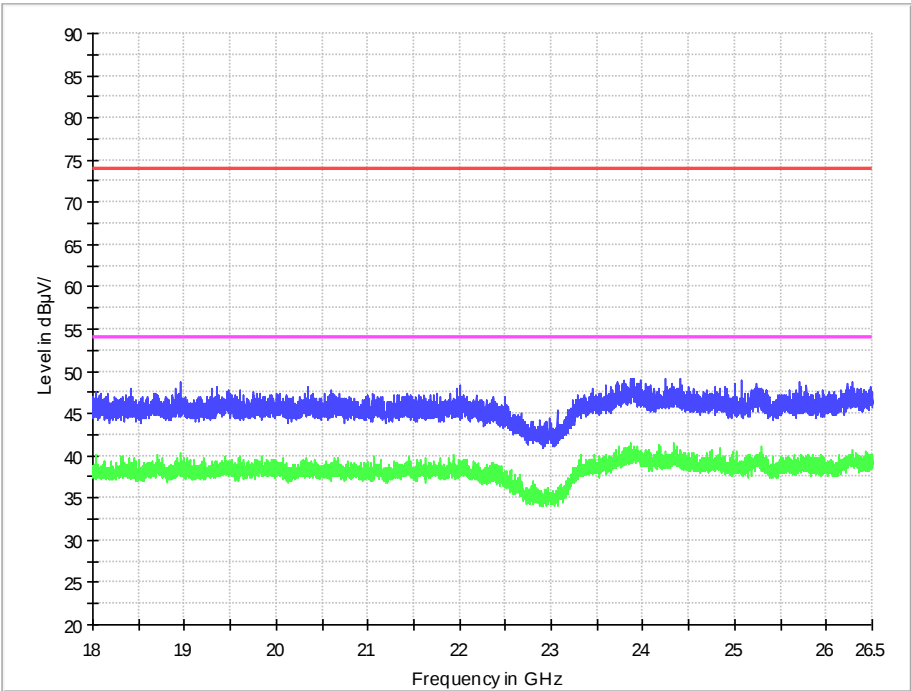


18 GHz-26.5 GHz

Horizontal

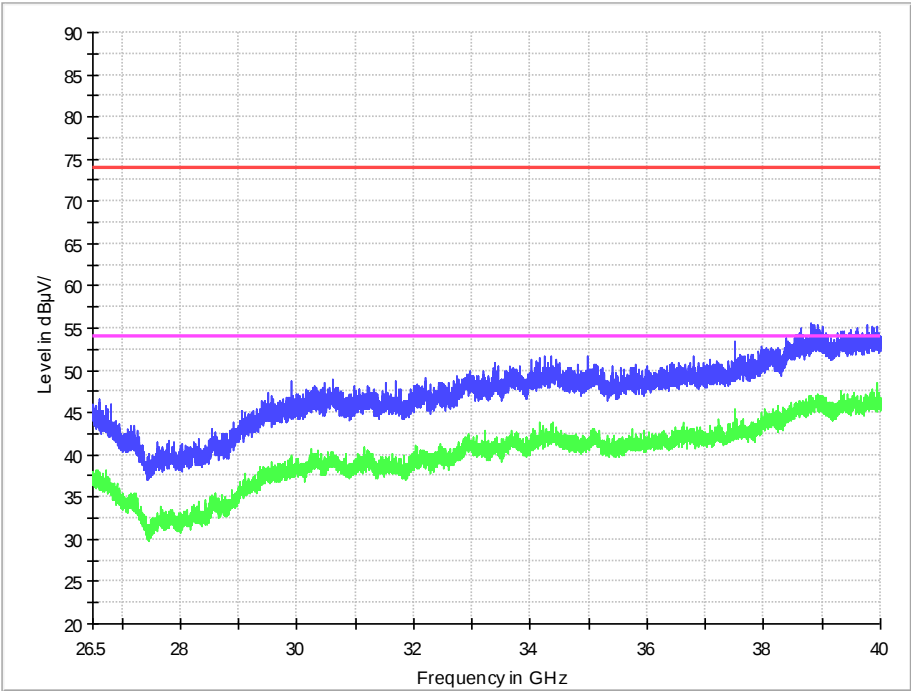


Vertical

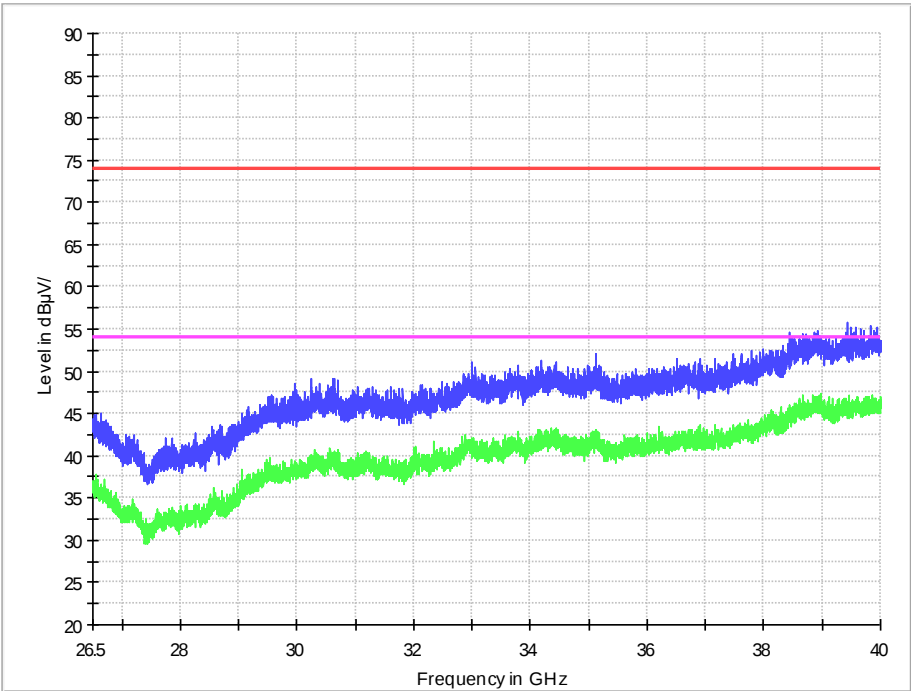


26.5 GHz-40 GHz

Horizontal



Vertical



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