

RADIO PERFORMANCE TEST REPORT

Test Report No. : OT-21D-RWD-055
Reception No. : 2109004288
Applicant : BROS&COMPANY INC
Address : A-402, InnoValley, 253, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, 13486, South Korea
Manufacturer : BROS&COMPANY INC
Address : 28, Hwangsaeul-ro 116beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
Type of Equipment : Tekdec-Smart Desk
FCC ID. : 2AQIS-POUT-TD-00101
Model Name : TD-00101
Multiple Model Name : N/A
Serial number : N/A
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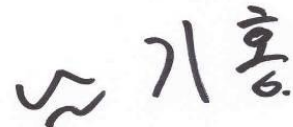
SUMMARY

The equipment complies with the regulation; **FCC CFR47 Part 15 Subpart C Section 15.207 and 15.209**

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.





Tested by
Soon-Ki, Choi / Engineer
ONETECH Corp.

Reviewed by
Tae-Ho, Kim / Senior Manager
ONETECH Corp.

Approved by
Ki-Hong, Nam / General Manager
ONETECH Corp.

CONTENTS

	PAGE
1. VERIFICATION OF COMPLIANCE	5
2. TEST SUMMARY	6
2.1 TEST ITEMS AND RESULTS	6
2.2 ADDITIONS, DEVIATIONS, EXCLUSIONS FROM STANDARDS.....	6
2.3 RELATED SUBMITTAL(S) / GRANT(S)	6
2.4 PURPOSE OF THE TEST	6
2.5 TEST METHODOLOGY.....	6
2.6 TEST FACILITY.....	6
3. GENERAL INFORMATION	7
3.1 PRODUCT DESCRIPTION.....	7
3.2 ALTERNATIVE TYPE(S)/MODEL(S); ALSO COVERED BY THIS TEST REPORT.....	7
4. EUT MODIFICATIONS	7
5. SYSTEM TEST CONFIGURATION	8
5.1 JUSTIFICATION.....	8
5.2 PERIPHERAL EQUIPMENT	8
5.3 MODE OF OPERATION DURING THE TEST	8
5.4 CONFIGURATION OF TEST SYSTEM.....	9
5.5 ANTENNA REQUIREMENT	9
6. PRELIMINARY TEST	9
6.1 AC POWER LINE CONDUCTED EMISSIONS TESTS.....	9
6.2 GENERAL RADIATED EMISSIONS TESTS	9
7. SPURIOUS EMISSION TEST	10
7.1 REGULATION	10
7.2 TEST SET-UP	10
7.3 TEST DATE.....	10
7.4 TEST DATA FOR ANTENNA 0 [DC 5.0 V].....	11
7.4.1 <i>Spurious Radiated Emission Below 30 MHz</i>	11
7.4.2 <i>Spurious Radiated Emission below 1 GHz</i>	14
7.5 TEST DATA FOR ANTENNA 0 [DC 9.0 V].....	17
7.5.1 <i>Spurious Radiated Emission Below 30 MHz</i>	17
7.5.2 <i>Spurious Radiated Emission below 1 GHz</i>	20
7.6 TEST DATA FOR ANTENNA 0 [DC 12.0 V].....	23

7.6.1 <i>Spurious Radiated Emission Below 30 MHz</i>	23
7.6.2 <i>Spurious Radiated Emission below 1 GHz</i>	26
7.7 TEST DATA FOR ANTENNA 1 [DC 5.0 V].....	29
7.7.1 <i>Spurious Radiated Emission Below 30 MHz</i>	29
7.7.2 <i>Spurious Radiated Emission below 1 GHz</i>	32
7.8 TEST DATA FOR ANTENNA 1 [DC 9.0 V].....	35
7.8.1 <i>Spurious Radiated Emission Below 30 MHz</i>	35
7.8.2 <i>Spurious Radiated Emission below 1 GHz</i>	38
7.9 TEST DATA FOR ANTENNA 1 [DC 12.0 V].....	41
7.9.1 <i>Spurious Radiated Emission Below 30 MHz</i>	41
7.9.2 <i>Spurious Radiated Emission below 1 GHz</i>	44
7.10 TEST DATA FOR ANTENNA 0 + ANTENNA 1	47
7.10.1 <i>Spurious Radiated Emission Below 30 MHz</i>	47
7.10.2 <i>Spurious Radiated Emission below 1 GHz</i>	50
8. CONDUCTED EMISSION TEST.....	53
8.1 OPERATING ENVIRONMENT	53
8.2 TEST SET-UP	53
8.3 TEST EQUIPMENT USED.....	53
8.4 TEST DATE.....	53
8.5 TEST DATA FOR ANTENNA 0 [DC 5.0 V].....	54
8.6 TEST DATA FOR ANTENNA 0 [DC 9.0 V].....	56
8.7 TEST DATA FOR ANTENNA 0 [DC 12.0 V].....	58
8.8 TEST DATA FOR ANTENNA 1 [DC 5.0 V].....	60
8.9 TEST DATA FOR ANTENNA 1 [DC 9.0 V].....	62
8.10 TEST DATA FOR ANTENNA 1 [DC 12.0 V].....	64
8.11 TEST DATA FOR ANTENNA 0 + ANTENNA 1	66
9. LIST OF TEST EQUIPMENT	68

Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-21D-RWD-055	December 23, 2021	Initial Release	All

1. VERIFICATION OF COMPLIANCE

APPLICANT : BROS&COMPANY INC
 ADDRESS : A-402, InnoValley, 253, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, 13486, South Korea
 CONTACT PERSON : Ryan Lee / Product lab Leader
 TELEPHONE NO : +82-31-286-8646
 FCC ID : 2AQIS-POUT-TD-00101
 MODEL NAME : TD-00101
 BRAND NAME : TEKDEC
 SERIAL NUMBER : N/A
 DATE : December 23, 2021

EQUIPMENT CLASS	DCD – Part 15 Low Power Transmitter Below 1 705 kHz
KIND OF EQUIPMENT	Tekdec-Smart Desk
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2020
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC&IC RULES PART(S)	FCC CFR47 Part 15 Subpart C Section 15.207 and 15.209
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	No
FINAL TEST WAS CONDUCTED ON	3 m, Semi Anechoic Chamber

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. The equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. TEST SUMMARY

2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.209, 15.209(a)	Radiated emission, Spurious Emission and Field Strength of Fundamental	Met the Limit / PASS
15.207	Transmitter AC Power Line Conducted Emission	Met the Limit / PASS

2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

2.3 Related Submittal(s) / Grant(s)

Original submittal only

2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in FCC CFR47 Part 15 Subpart C Section 15.207 and 15.209.

2.5 Test Methodology

Radiated testing was performed according to the procedures in ANSI C63.10: 2020 at a distance of 3 m from EUT to the antenna.

2.6 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea.

-. Site Filing:

VCCI (Voluntary Control Council for Interference) – Registration No. R-20122/ C-14617/ G-10666/ T-11842

ISED (Innovation, Science and Economic Development Canada) – Registration No. Site# 3736A-3

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) – Designation No. KR0013

3. GENERAL INFORMATION

3.1 Product Description

The BROS&COMPANY INC, Model: TD-00101 (referred to as the EUT in this report) is an Tekdec-Smart Desk. Product specification information described herein was obtained from product data sheet or user’s manual.

DEVICE TYPE	Tekdec-Smart Desk
OPERATING FREQUENCY	Antenna 1 : 113.6 kHz ~ 204.9 kHz Antenna 2 : 113.6 kHz ~ 204.9 kHz
RATED RF OUTPUT POWER	79.3 dB μ V/m
ANTENNA TYPE	Antenna 1 (Single Coil) Antenna 2 (Alpha Coil)
MODULATION	ASK
RATED SUPPLY VOLTAGE	DC 5.0 V, DC 9.0 V, DC 12.0 V

3.2 Alternative type(s)/model(s); also covered by this test report.

-. None

4. EUT MODIFICATIONS

-. None

5. SYSTEM TEST CONFIGURATION

5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Main Board	N/A	A1442-MF-FM-V1.1	N/A
Sub Board	N/A	A1442_MF_LED_V1.0	N/A

5.2 Peripheral equipment

-. None

5.3 Mode of operation during the test

For the testing, software used to control the EUT for staying in continuous transmitting is programmed.

For final testing, the EUT was set as following condition.

- Max Load, Middle Load, Min Load for DC 5.0 V.
- Max Load, Middle Load, Min Load for DC 9.0 V.
- Max Load, Middle Load, Min Load for DC 12.0 V.

To get a maximum emission levels from the EUT, the EUT was moved throughout the XY, XZ, and YZ planes and the worst case is “XY” axis.

Mode	Operating Frequency	Operating Supply Voltage
Antenna 0	113.6 kHz ~ 204.9 kHz	DC 5.0 V
Antenna 0	113.6 kHz ~ 204.9 kHz	DC 9.0 V
Antenna 0	113.6 kHz ~ 204.9 kHz	DC 12.0 V
Antenna 1	113.6 kHz ~ 204.9 kHz	DC 5.0 V
Antenna 1	113.6 kHz ~ 204.9 kHz	DC 9.0 V
Antenna 1	113.6 kHz ~ 204.9 kHz	DC 12.0 V
Antenna 0 + Antenna 1	113.6 kHz ~ 204.9 kHz	DC 12.0 V

5.4 Configuration of Test System

Line Conducted Test : The EUT was tested in a charging mode. The EUT was connected to USB and the power of USB was connected to Adapter. All supporting equipment were connected to another LISN. Preliminary Power line Conducted Emission test was performed by using the procedure in ANSI C63.4: 2009 7.3.3 to determine the worse operating conditions.

Radiated Emission Test : Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2020 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 m Semi Anechoic Chamber.

The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.

5.5 Antenna Requirement

According to section 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.

Antenna Construction:

The antenna of the EUT is a Coil Antenna on the main board in the EUT, so no consideration of replacement by the user.

6. PRELIMINARY TEST

6.1 AC Power line Conducted Emissions Tests

During Preliminary Tests, the following operating modes were investigated

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode & Charging Mode	X

6.2 General Radiated Emissions Tests

During Preliminary Tests, the following operating modes were investigated

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode & Charging Mode	X

7. Spurious Emission Test

7.1 Regulation

According to §15.209(a), for an intentional device, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency [MHz]	Field strength [μ V/m]	Field strength [dB μ V/m]	Measurement distance [m]
0.009 ~ 0.490	2 400 / F (kHz)	48.52 ~ 13.80	300
0.490 ~ 1.705	24 000 / F (kHz)	33.8 ~ 22.97	30
1.705 ~ 30	30	29.50	30
30 ~ 88	*100	40.00	3
88 ~ 216	*150	43.52	3
216 ~ 960	*200	46.02	3
Above 960	500	53.98	3

*Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54 ~ 72 MHz, 76 ~ 88 MHz, 174 ~ 216 MHz or 470 ~ 806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

7.2 Test set-up

The radiated emissions measurements were on the 3 m semi anechoic chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from 30 kHz to 1 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 ms in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

7.3 Test date

December 14, 2021 ~ December 20, 2021

7.4 Test data for Antenna 0 [DC 5.0 V]

7.4.1 Spurious Radiated Emission Below 30 MHz

Humidity Level : 50 % R.H.

Temperature: 22 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency Range : 9 kHz ~ 30 MHz

Result : PASSED

EUT : Tekdec-Smart Desk

Operating Condition : Transmitting Mode & Charging Mode

-. Using Max load (1000 mA)

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.016	PK	51.02	18.6	0.1	69.7	-10.3	43.5	53.8
*0.167	PK	58.20	18.6	0.2	77.0	-3.0	23.2	26.2
0.394	PK	32.31	18.9	0.2	51.4	-28.6	15.7	44.3

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
0.659	PK	25.1	18.8	0.2	44.1	4.1	31.2	27.1
2.637	PK	14.7	18.8	0.2	33.7	-6.3	30.0	36.3
5.505	PK	20.6	19.1	1.0	40.7	0.7	30.0	29.3

-. "*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]

= Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

-. Using Mid load (500 mA)

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.018	PK	50.4	18.6	0.1	69.1	-11.0	42.5	53.5
*0.152	PK	48.7	18.6	0.2	67.5	-12.5	24.0	36.5
0.253	PK	36.4	18.9	0.2	55.5	-24.6	19.5	44.1
0.395	PK	32.4	18.9	0.2	51.5	-28.5	15.7	44.2

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
5.476	PK	20.9	19.1	0.2	40.2	0.2	30.0	29.9
16.369	PK	15.4	19.3	1.0	35.7	-4.3	30.0	34.3

-. “*” Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]
 = Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,
 Below 30 MHz

-. Using Min load (100 mA)

Frequency (MHz)	Detector	Reading (dB μ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB μ V/m)	Emission Level at 300m (dB μ V/m)	Limit at 300m (dB μ V/m)	Margin (dB)
0.018	PK	50.7	18.6	0.1	69.4	-10.6	42.5	53.1
*0.141	PK	57.4	18.9	0.2	76.5	-3.5	24.6	28.1
0.396	PK	41.2	18.9	0.2	60.3	-19.7	15.7	35.3

Frequency (MHz)	Detector	Reading (dB μ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB μ V/m)	Emission Level at 30m (dB μ V/m)	Limit at 30m (dB μ V/m)	Margin (dB)
0.661	PK	31.6	18.8	0.2	50.6	10.6	31.2	20.6
5.447	PK	20.8	19.1	0.2	40.1	0.1	30.0	29.9
17.99	PK	18.0	19.3	1.0	38.3	-1.7	30.0	31.7

-. “*” Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dB μ V] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dB μ V/m] – Limit at 300m [dB μ V/m]
 = Emission Level at 300m [dB μ V/m] – Limit at 30m [dB μ V/m]

-. Emission Level at 300m [dB μ V/m] = Emission Level at 3m [dB μ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dB μ V/m] = Emission Level at 3m [dB μ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,
 Below 30 MHz

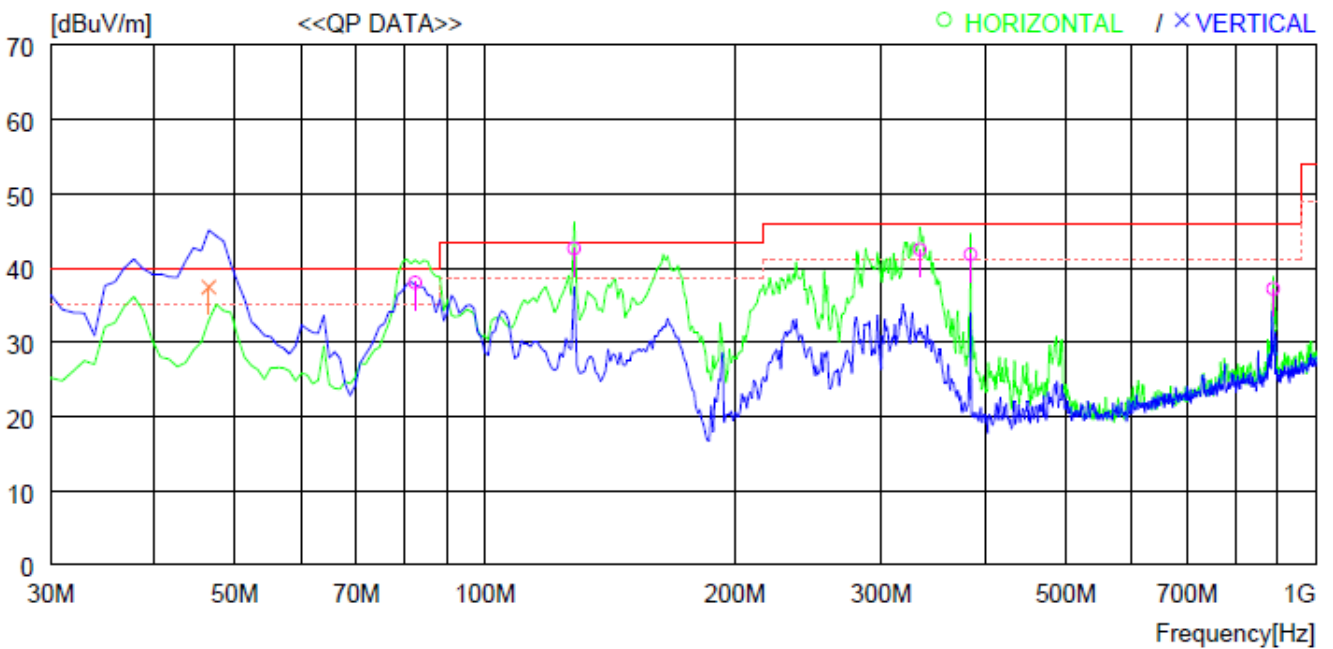
7.4.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 50 % R.H. Temperature: 22 °C
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209
 Frequency range : 30 MHz ~ 1 000 MHz
 Result : PASSED

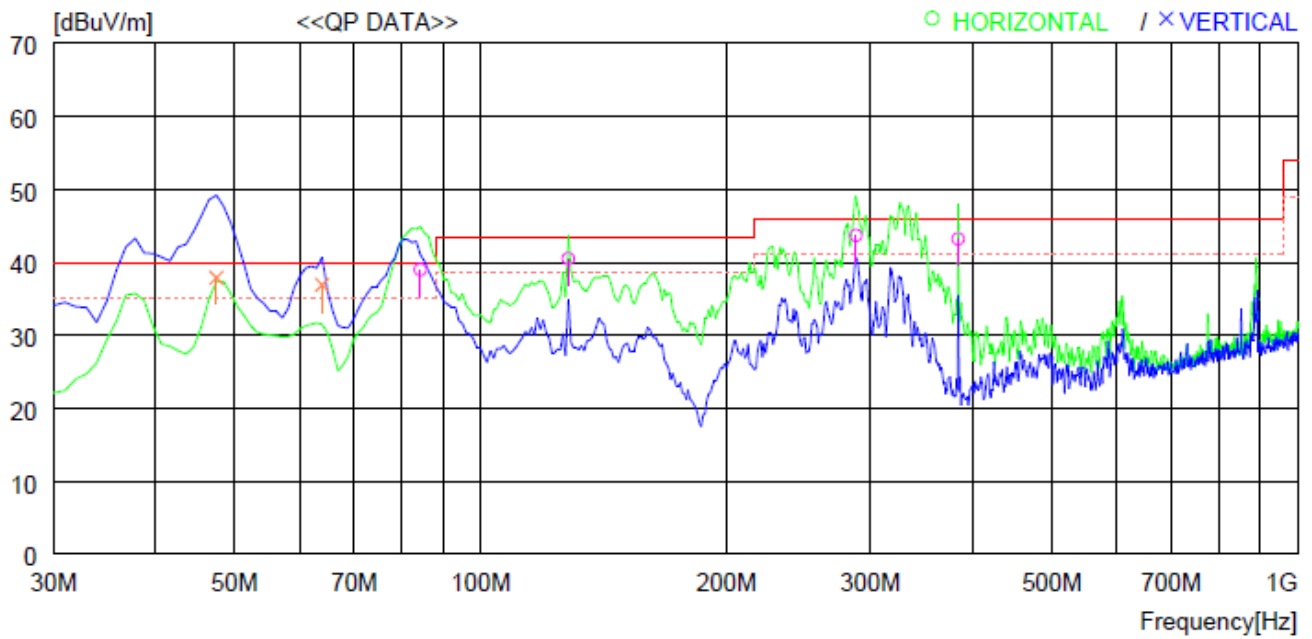
EUT : Tekdec-Smart Desk
 Operating Condition : Transmitting Mode & Charging Mode

-. Using Max load (1000 mA)



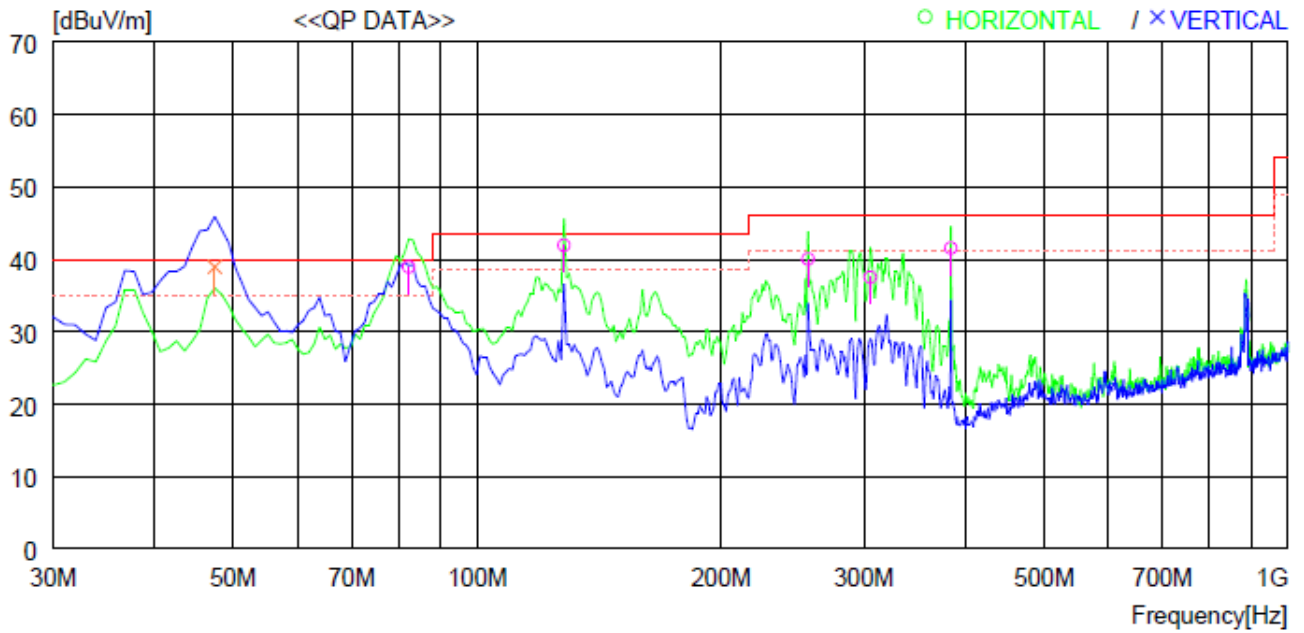
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	82.380	56.5	12.9	1.7	33.1	38.0	40.0	2.0	300	114
2	127.970	54.3	19.1	2.2	33.0	42.6	43.5	0.9	200	65
3	333.610	52.1	19.8	3.6	33.0	42.5	46.0	3.5	100	197
4	384.050	50.5	20.5	3.8	33.0	41.8	46.0	4.2	100	32
5	888.439	36.4	27.5	5.9	32.6	37.2	46.0	8.8	200	228
----- Vertical -----										
6	46.490	54.6	14.6	1.3	33.1	37.4	40.0	2.6	100	89

-. Using Mid load (500 mA)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	84.320	57.3	13.0	1.8	33.1	39.0	40.0	1.0	200	100
2	127.970	52.2	19.1	2.2	33.0	40.5	43.5	3.0	300	244
3	288.020	54.4	19.0	3.3	33.0	43.7	46.0	2.3	100	304
4	384.050	51.9	20.5	3.8	33.0	43.2	46.0	2.8	100	36
----- Vertical -----										
5	47.460	55.5	14.2	1.3	33.1	37.9	40.0	2.1	100	359
6	63.950	56.0	12.5	1.5	33.1	36.9	40.0	3.1	200	3

-. Using Min load (100 mA)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	82.380	57.4	12.9	1.7	33.1	38.9	40.0	1.1	300	359
2	127.970	53.6	19.1	2.2	33.0	41.9	43.5	1.6	200	91
3	256.010	51.9	17.9	3.2	33.0	40.0	46.0	6.0	100	359
4	305.480	47.8	19.3	3.4	33.0	37.5	46.0	8.5	100	321
5	384.050	50.2	20.5	3.8	33.0	41.5	46.0	4.5	100	359
----- Vertical -----										
6	47.460	56.5	14.2	1.3	33.1	38.9	40.0	1.1	100	0

7.5 Test data for Antenna 0 [DC 9.0 V]

7.5.1 Spurious Radiated Emission Below 30 MHz

Humidity Level : 50 % R.H.

Temperature: 22 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency Range : 9 kHz ~ 30 MHz

Result : PASSED

EUT : Tekdec-Smart Desk

Operating Condition : Transmitting Mode & Charging Mode

-. Using Max load (1000 mA)

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.018	PK	46.49	18.6	0.1	65.2	-14.8	42.5	57.3
*0.152	PK	60.20	18.6	0.2	79.0	-1.0	24.0	25.0
0.245	PK	29.35	18.9	0.2	48.5	-31.6	19.8	51.4

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
2.608	PK	16.1	18.8	0.2	35.1	-4.9	30.0	34.9
5.476	PK	20.3	19.1	1.0	40.4	0.4	30.0	29.6

-. "*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]

= Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

-. Using Mid load (500 mA)

Frequency (MHz)	Detector	Reading (dB μ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB μ V/m)	Emission Level at 300m (dB μ V/m)	Limit at 300m (dB μ V/m)	Margin (dB)
0.018	PK	50.7	18.6	0.1	69.4	-10.6	42.5	53.1
0.034	PK	42.8	18.6	0.2	61.6	-18.4	37.0	55.4
*0.144	PK	57.9	18.9	0.2	77.0	-3.0	24.4	27.4
0.396	PK	41.2	18.9	0.2	60.3	-19.7	15.7	35.3

Frequency (MHz)	Detector	Reading (dB μ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB μ V/m)	Emission Level at 30m (dB μ V/m)	Limit at 30m (dB μ V/m)	Margin (dB)
5.447	PK	20.8	19.1	0.2	40.1	0.1	30.0	29.9
17.992	PK	18.0	19.3	1.0	38.3	-1.7	30.0	31.7

-. "*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dB μ V] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dB μ V/m] – Limit at 300m [dB μ V/m]
 = Emission Level at 300m [dB μ V/m] – Limit at 30m [dB μ V/m]

-. Emission Level at 300m [dB μ V/m] = Emission Level at 3m [dB μ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dB μ V/m] = Emission Level at 3m [dB μ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,
 Below 30 MHz

-. Using Min load (100 mA)

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.018	PK	50.4	18.6	0.1	69.1	-11.0	42.5	53.5
*0.146	PK	58.0	18.9	0.2	77.1	-2.9	24.3	27.2
0.253	PK	36.4	18.9	0.2	55.5	-24.6	19.5	44.1

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
5.476	PK	20.3	19.1	0.2	39.6	-0.4	30.0	30.4
16.369	PK	13.9	19.3	1.0	34.2	-5.8	30.0	35.8

-. "*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]
 = Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,
 Below 30 MHz

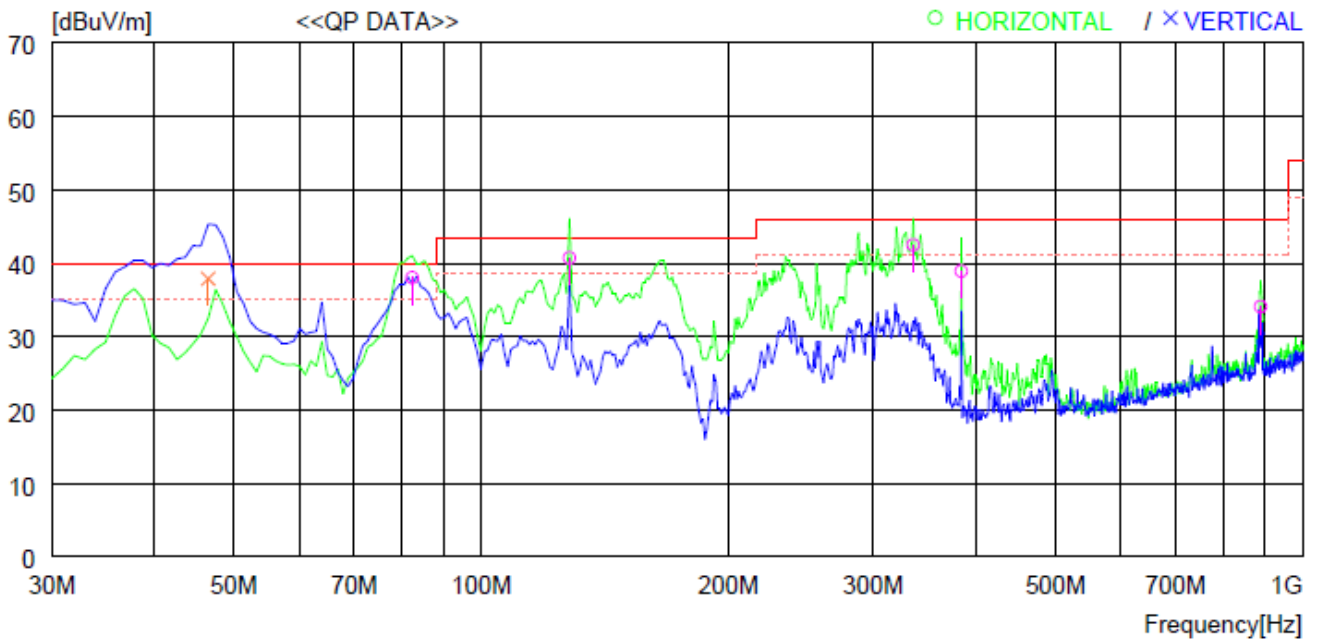
7.5.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 50 % R.H. Temperature: 22 °C
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209
 Frequency range : 30 MHz ~ 1 000 MHz
 Result : PASSED

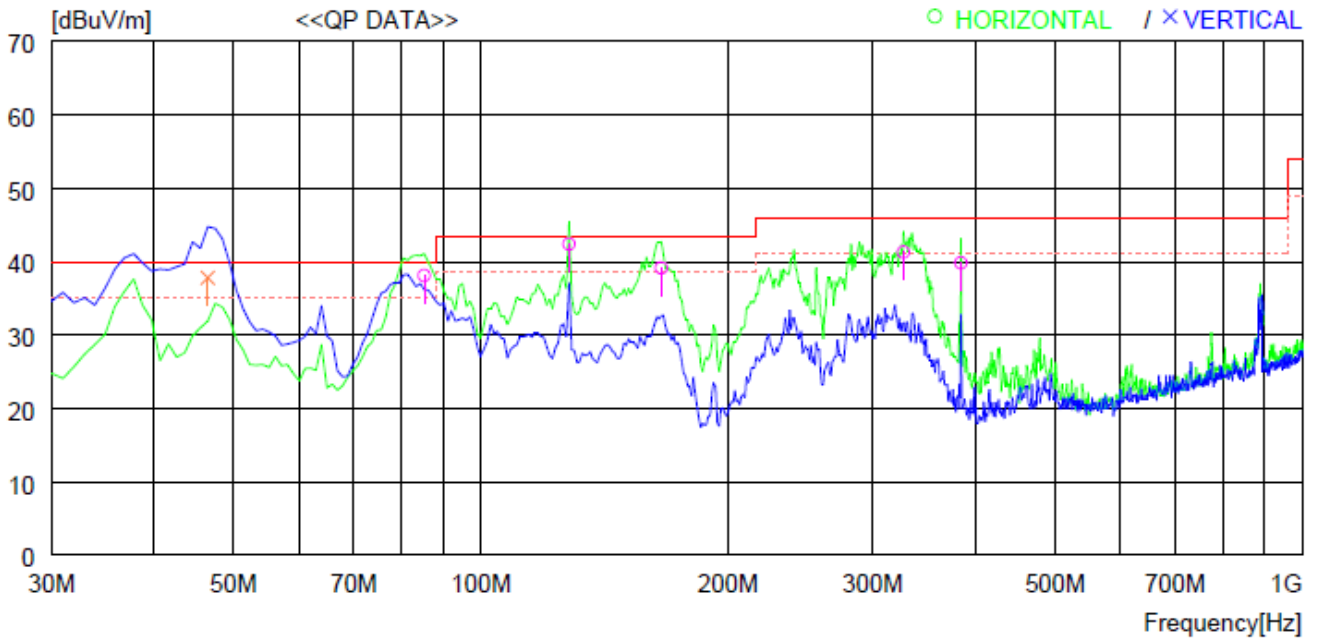
EUT : Tekdec-Smart Desk
 Operating Condition : Transmitting Mode & Charging Mode

-. Using Max load (1000 mA)



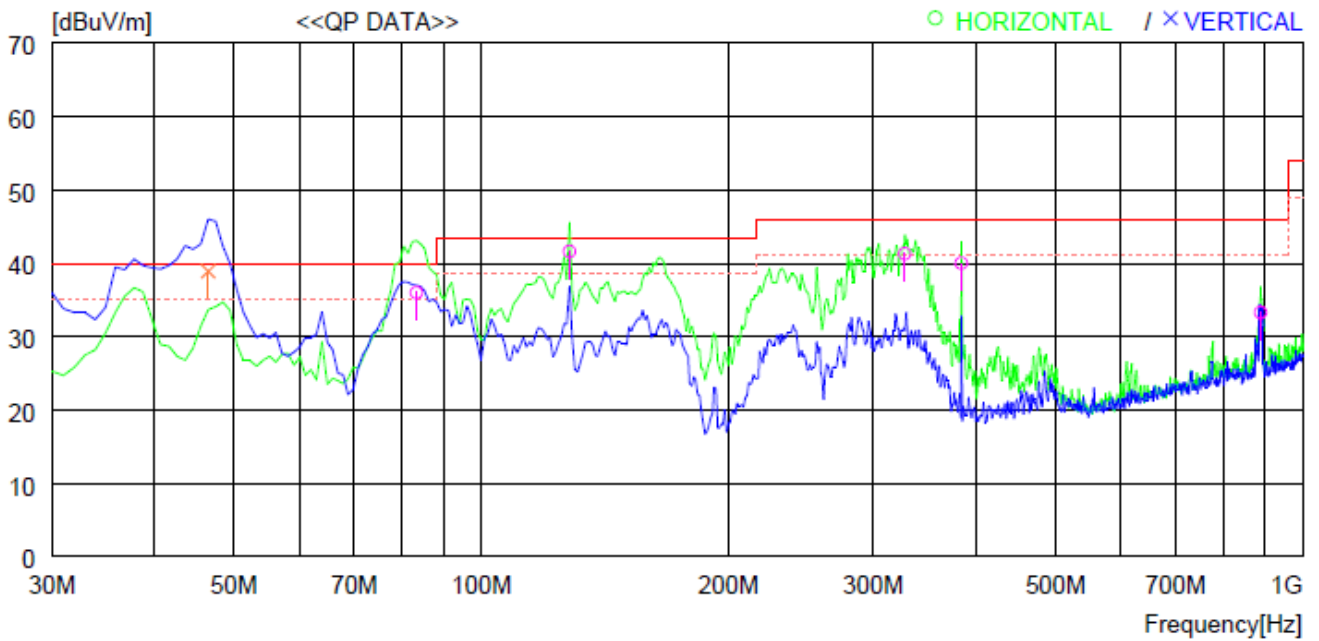
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	82.380	56.5	12.9	1.7	33.1	38.0	40.0	2.0	300	359
2	127.970	52.4	19.1	2.2	33.0	40.7	43.5	2.8	200	0
3	335.550	52.1	19.8	3.6	33.0	42.5	46.0	3.5	100	359
4	384.050	47.6	20.5	3.8	33.0	38.9	46.0	7.1	100	37
5	888.439	33.3	27.5	5.9	32.6	34.1	46.0	11.9	200	315
----- Vertical -----										
6	46.490	55.1	14.6	1.3	33.1	37.9	40.0	2.1	100	0

-. Using Mid load (500 mA)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	85.290	56.4	13.0	1.8	33.1	38.1	40.0	1.9	300	359
2	127.970	54.1	19.1	2.2	33.0	42.4	43.5	1.1	200	0
3	165.800	51.9	17.7	2.5	33.0	39.1	43.5	4.4	200	0
4	326.820	51.2	19.6	3.5	33.0	41.3	46.0	4.7	100	358
5	384.050	48.5	20.5	3.8	33.0	39.8	46.0	6.2	100	359
----- Vertical -----										
6	46.490	55.0	14.6	1.3	33.1	37.8	40.0	2.2	100	0

-. Using Min load (100 mA)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	83.350	54.4	12.9	1.8	33.1	36.0	40.0	4.0	400	130
2	127.970	53.3	19.1	2.2	33.0	41.6	43.5	1.9	200	0
3	327.790	51.1	19.7	3.5	33.0	41.3	46.0	4.7	100	359
4	384.050	48.7	20.5	3.8	33.0	40.0	46.0	6.0	100	37
5	888.439	32.5	27.5	5.9	32.6	33.3	46.0	12.7	200	0
----- Vertical -----										
6	46.490	56.1	14.6	1.3	33.1	38.9	40.0	1.1	100	0

7.6 Test data for Antenna 0 [DC 12.0 V]

7.6.1 Spurious Radiated Emission Below 30 MHz

Humidity Level : 50 % R.H.

Temperature: 22 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency Range : 9 kHz ~ 30 MHz

Result : PASSED

EUT : Tekdec-Smart Desk

Operating Condition : Transmitting Mode & Charging Mode

-. Using Max load (1000 mA)

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.017	PK	50.31	18.6	0.1	69.0	-11.0	43.0	54.0
*0.167	PK	55.40	18.6	0.2	74.2	-5.8	23.2	29.0
0.412	PK	40.28	18.9	0.2	59.4	-20.6	15.3	35.9

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
0.687	PK	29.7	18.8	0.2	48.7	8.7	31.2	22.5
5.476	PK	20.4	18.8	0.2	39.4	-0.6	30.0	30.6
18.078	PK	18.0	19.1	1.0	38.1	-2.0	30.0	32.0

-. "*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]

= Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

-. Using Mid load (500 mA)

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.018	PK	47.1	18.6	0.1	65.8	-14.2	42.5	56.7
*0.155	PK	49.3	18.6	0.2	68.1	-11.9	23.8	35.7
0.249	PK	31.0	18.9	0.2	50.1	-29.9	19.7	49.6

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
5.476	PK	21.2	19.1	0.2	40.5	0.5	30.0	29.5
2.608	PK	16.1	19.3	1.0	36.4	-3.6	30.0	33.6

-. "*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]
 = Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,
 Below 30 MHz

-. Using Min load (100 mA)

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.018	PK	50.5	18.6	0.1	69.2	-10.8	42.5	53.3
*0.134	PK	53.2	18.9	0.2	72.3	-7.7	25.1	32.8
0.396	PK	31.9	18.9	0.2	51.0	-29.0	15.7	44.7

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
0.657	PK	24.8	18.8	0.2	43.8	3.8	31.3	27.4
5.476	PK	20.9	19.1	0.2	40.2	0.2	30.0	29.9
13.762	PK	14.6	19.3	1.0	34.9	-5.1	30.0	35.1

-. "*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]
 = Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,
 Below 30 MHz

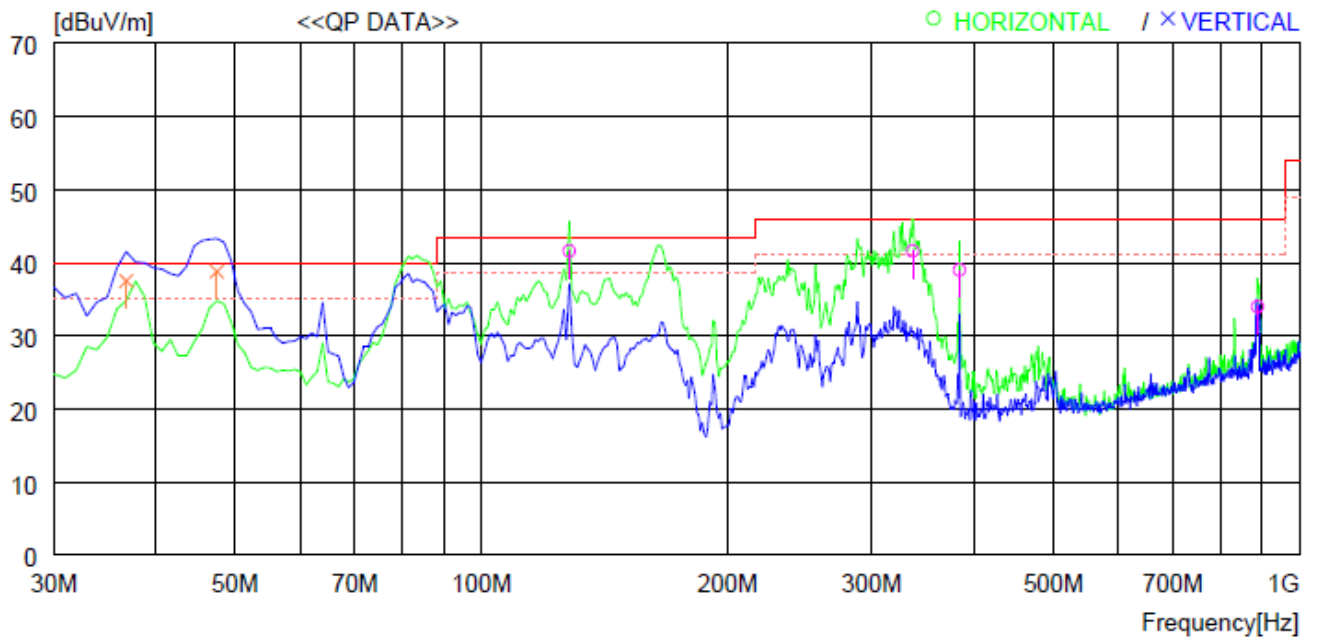
7.6.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 50 % R.H. Temperature: 22 °C
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209
 Frequency range : 30 MHz ~ 1 000 MHz
 Result : PASSED

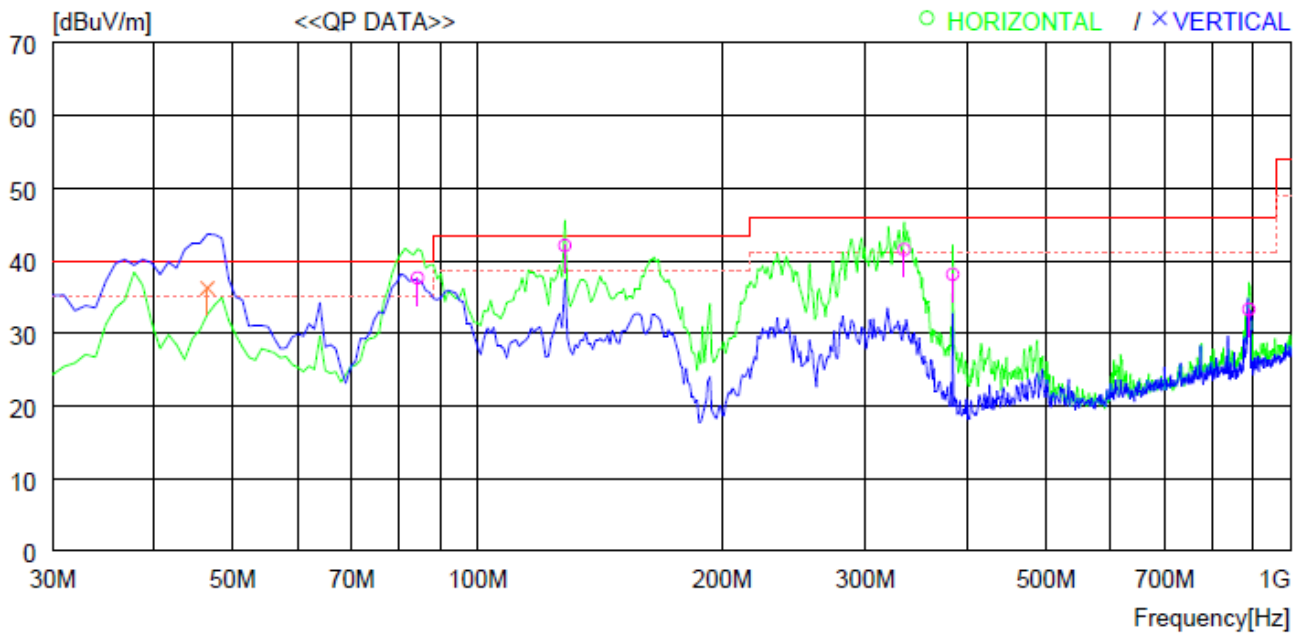
EUT : Tekdec-Smart Desk
 Operating Condition : Transmitting Mode & Charging Mode

-. Using Max load (1000 mA)



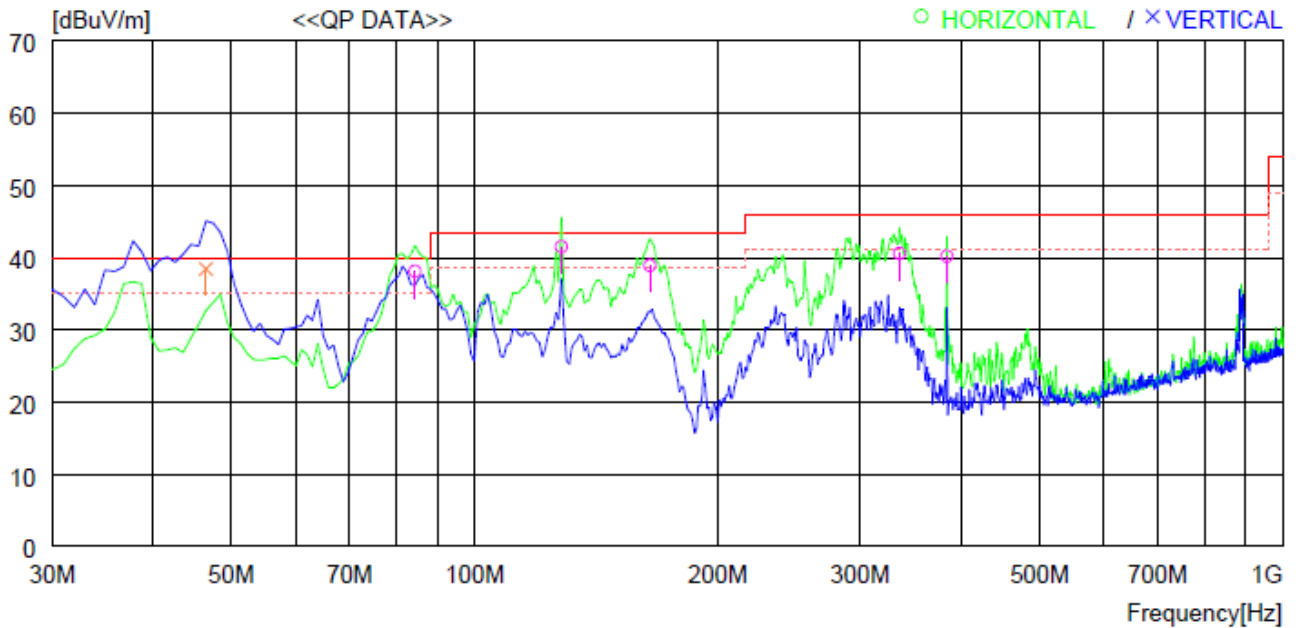
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	127.970	53.3	19.1	2.2	33.0	41.6	43.5	1.9	200	89
2	336.520	51.2	19.8	3.6	33.0	41.6	46.0	4.4	100	355
3	384.050	47.7	20.5	3.8	33.0	39.0	46.0	7.0	100	359
4	888.439	33.2	27.5	5.9	32.6	34.0	46.0	12.0	200	256
----- Vertical -----										
5	36.790	51.0	18.5	1.1	33.1	37.5	40.0	2.5	100	258
6	47.460	56.4	14.2	1.3	33.1	38.8	40.0	1.2	100	0

-. Using Mid load (500 mA)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	84.320	55.9	13.0	1.8	33.1	37.6	40.0	2.4	300	359
2	127.970	53.8	19.1	2.2	33.0	42.1	43.5	1.4	200	0
3	334.580	51.1	19.8	3.6	33.0	41.5	46.0	4.5	100	359
4	384.050	46.8	20.5	3.8	33.0	38.1	46.0	7.9	100	36
5	888.439	32.5	27.5	5.9	32.6	33.3	46.0	12.7	200	0
----- Vertical -----										
6	46.490	53.4	14.6	1.3	33.1	36.2	40.0	3.8	100	249

-. Using Min load (100 mA)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	84.320	56.4	13.0	1.8	33.1	38.1	40.0	1.9	300	359
2	127.970	53.2	19.1	2.2	33.0	41.5	43.5	2.0	200	79
3	164.830	51.8	17.7	2.4	33.0	38.9	43.5	4.6	200	180
4	335.550	50.2	19.8	3.6	33.0	40.6	46.0	5.4	100	358
5	384.050	48.9	20.5	3.8	33.0	40.2	46.0	5.8	100	38
----- Vertical -----										
6	46.490	55.6	14.6	1.3	33.1	38.4	40.0	1.6	100	0

7.7 Test data for Antenna 1 [DC 5.0 V]

7.7.1 Spurious Radiated Emission Below 30 MHz

Humidity Level : 50 % R.H.

Temperature: 22 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency Range : 9 kHz ~ 30 MHz

Result : PASSED

EUT : Tekdec-Smart Desk

Operating Condition : Transmitting Mode & Charging Mode

-. Using Max load (1000 mA)

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.018	PK	50.7	18.6	0.1	69.4	-10.6	42.5	53.1
*0.134	PK	57.9	18.9	0.2	77.0	-3.0	25.1	28.1
0.254	PK	40.1	18.9	0.2	59.2	-20.8	19.5	40.3

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
5.476	PK	21.4	19.1	0.2	40.7	0.7	30.0	29.3
18.513	PK	16.0	19.7	0.2	35.9	-4.1	30.0	34.1

-. "*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]

= Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

-. Using Mid load (500 mA)

Frequency (MHz)	Detector	Reading (dB μ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB μ V/m)	Emission Level at 300m (dB μ V/m)	Limit at 300m (dB μ V/m)	Margin (dB)
0.018	PK	51.0	18.6	0.1	69.7	-10.3	42.5	52.8
*0.130	PK	56.7	18.9	0.2	75.8	-4.2	25.5	29.7
0.381	PK	32.7	18.9	0.2	51.8	-28.2	16.0	44.2
0.432	PK	31.6	18.9	0.2	50.7	-29.4	14.9	44.2

Frequency (MHz)	Detector	Reading (dB μ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB μ V/m)	Emission Level at 30m (dB μ V/m)	Limit at 30m (dB μ V/m)	Margin (dB)
5.505	PK	20.8	19.1	0.2	40.1	0.1	30.0	29.9
18.136	PK	15.4	19.7	1.0	36.1	-3.9	30.0	33.9

-. “*” Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dB μ V] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dB μ V/m] – Limit at 300m [dB μ V/m]
 = Emission Level at 300m [dB μ V/m] – Limit at 30m [dB μ V/m]

-. Emission Level at 300m [dB μ V/m] = Emission Level at 3m [dB μ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dB μ V/m] = Emission Level at 3m [dB μ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,
 Below 30 MHz

-. Using Min load (100 mA)

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.017	PK	50.6	18.6	0.1	69.3	-10.7	43.0	53.7
*0.148	PK	60.2	18.9	0.2	79.3	-0.7	24.2	24.9
0.377	PK	44.3	18.9	0.2	63.4	-16.6	16.1	32.6

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
0.626	PK	34.5	18.8	0.2	53.5	13.5	31.7	18.2
5.505	PK	21.6	19.1	0.2	40.9	0.9	30.0	29.2
18.223	PK	17.1	19.7	1.0	37.8	-2.2	30.0	32.2

-. "*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]
 = Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,
 Below 30 MHz

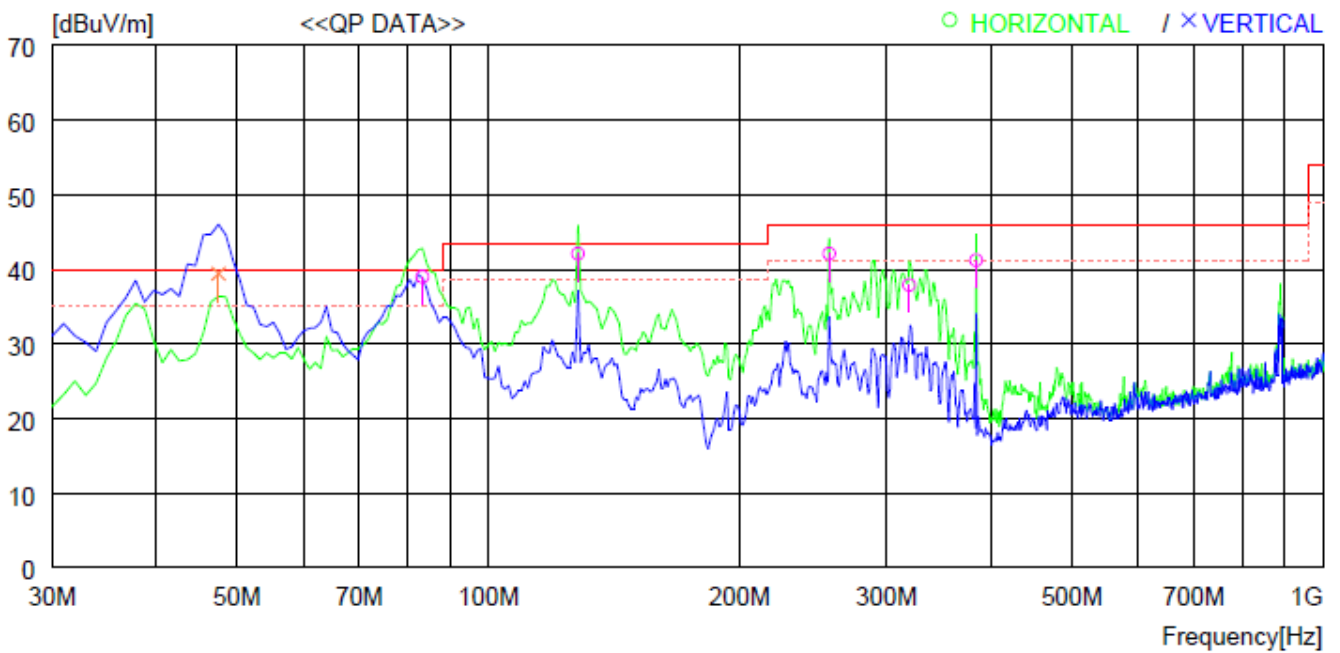
7.7.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 50 % R.H. Temperature: 22 °C
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209
 Frequency range : 30 MHz ~ 1 000 MHz
 Result : PASSED

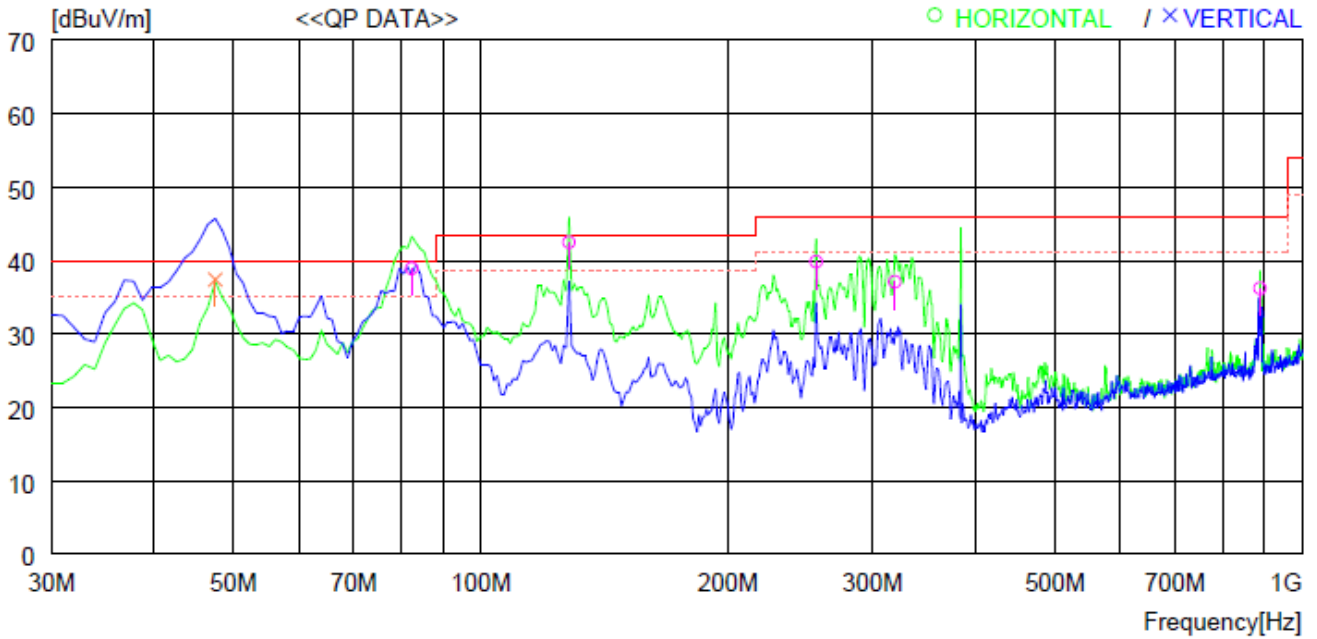
EUT : Tekdec-Smart Desk
 Operating Condition : Transmitting Mode & Charging Mode

-. Using Max load (1000 mA)



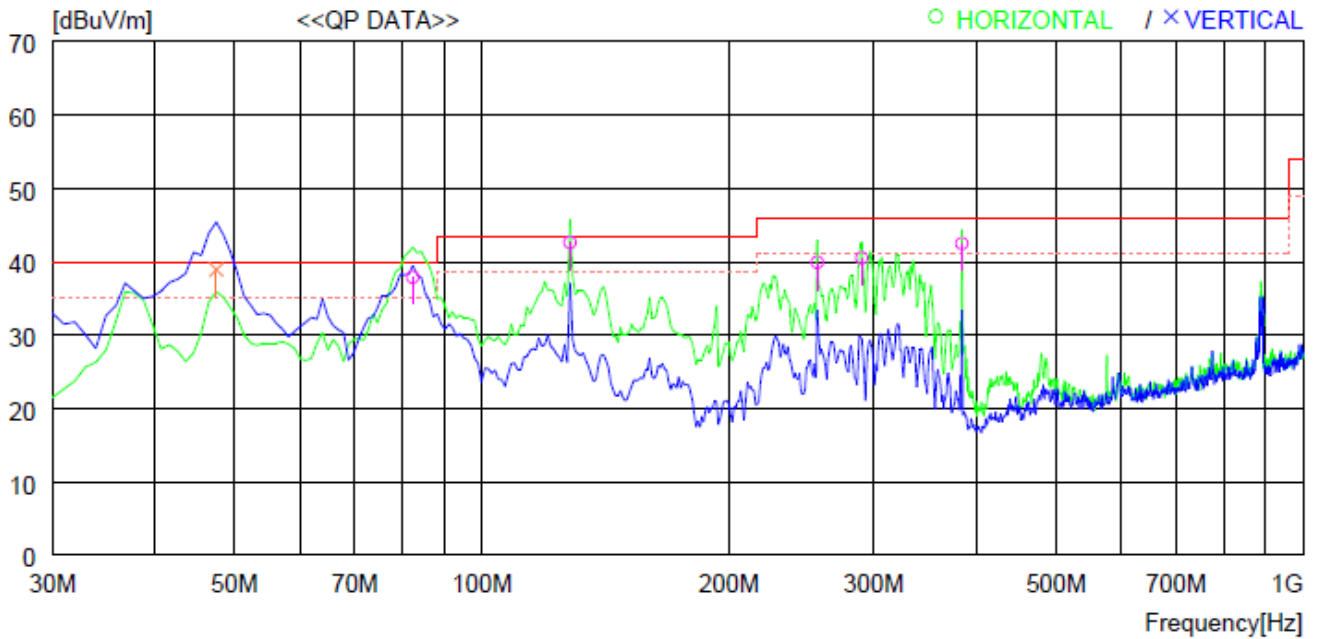
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	83.350	57.4	12.9	1.8	33.1	39.0	40.0	1.0	200	0
2	127.970	53.8	19.1	2.2	33.0	42.1	43.5	1.4	200	91
3	256.010	54.0	17.9	3.2	33.0	42.1	46.0	3.9	100	303
4	319.060	47.9	19.5	3.5	33.0	37.9	46.0	8.1	100	359
5	384.050	49.9	20.5	3.8	33.0	41.2	46.0	4.8	100	359
----- Vertical -----										
6	47.460	57.0	14.2	1.3	33.1	39.4	40.0	0.6	100	2

-. Using Mid load (500 mA)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	82.380	57.4	12.9	1.7	33.1	38.9	40.0	1.1	300	359
2	127.970	54.2	19.1	2.2	33.0	42.5	43.5	1.0	200	0
3	256.010	51.7	17.9	3.2	33.0	39.8	46.0	6.2	100	359
4	319.060	47.1	19.5	3.5	33.0	37.1	46.0	8.9	100	332
5	888.439	35.4	27.5	5.9	32.6	36.2	46.0	9.8	200	0
----- Vertical -----										
6	47.460	55.0	14.2	1.3	33.1	37.4	40.0	2.6	100	82

-. Using Min load (100 mA)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	82.380	56.4	12.9	1.7	33.1	37.9	40.0	2.1	300	359
2	127.970	54.3	19.1	2.2	33.0	42.6	43.5	0.9	200	0
3	256.010	51.8	17.9	3.2	33.0	39.9	46.0	6.1	100	122
4	289.960	51.2	19.0	3.3	33.0	40.5	46.0	5.5	100	359
5	384.050	51.2	20.5	3.8	33.0	42.5	46.0	3.5	100	359
----- Vertical -----										
6	47.460	56.5	14.2	1.3	33.1	38.9	40.0	1.1	100	0

7.8 Test data for Antenna 1 [DC 9.0 V]

7.8.1 Spurious Radiated Emission Below 30 MHz

Humidity Level : 50 % R.H.

Temperature: 22 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency Range : 9 kHz ~ 30 MHz

Result : PASSED

EUT : Tekdec-Smart Desk

Operating Condition : Transmitting Mode & Charging Mode

-. Using Max load (1000 mA)

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.016	PK	50.3	18.6	0.1	69.0	-11.0	43.5	54.5
*0.151	PK	57.9	18.9	0.2	77.0	-3.0	24.0	27.0
0.218	PK	31.5	18.9	0.2	50.6	-29.4	20.8	50.2

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
5.447	PK	20.4	19.1	0.2	39.7	-0.3	30.0	30.3
18.02	PK	17.5	19.7	0.2	37.4	-2.6	30.0	32.6

-. "*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]

= Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

-. Using Mid load (500 mA)

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.016	PK	50.0	18.6	0.1	68.7	-11.3	43.5	54.8
0.034	PK	42.7	18.6	0.2	61.5	-18.5	37.0	55.5
*0.178	PK	63.7	18.9	0.2	82.8	2.8	22.6	19.8
0.255	PK	39.5	18.9	0.2	58.6	-21.4	19.5	40.9

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
5.505	PK	20.7	19.1	0.2	40.0	0.0	30.0	30.0
18.02	PK	17.2	19.7	1.0	37.9	-2.1	30.0	32.1

-. “*” Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]
 = Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,
 Below 30 MHz

-. Using Min load (100 mA)

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.018	PK	50.6	18.6	0.1	69.3	-10.7	42.5	53.2
*0.150	PK	59.7	18.9	0.2	78.8	-1.2	24.1	25.3
0.377	PK	44.3	18.9	0.2	63.4	-16.6	16.1	32.6

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
5.505	PK	21.6	19.1	0.2	40.9	0.9	30.0	29.2
18.223	PK	17.1	19.7	1.0	37.8	-2.2	30.0	32.2

-. "*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]
 = Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,
 Below 30 MHz

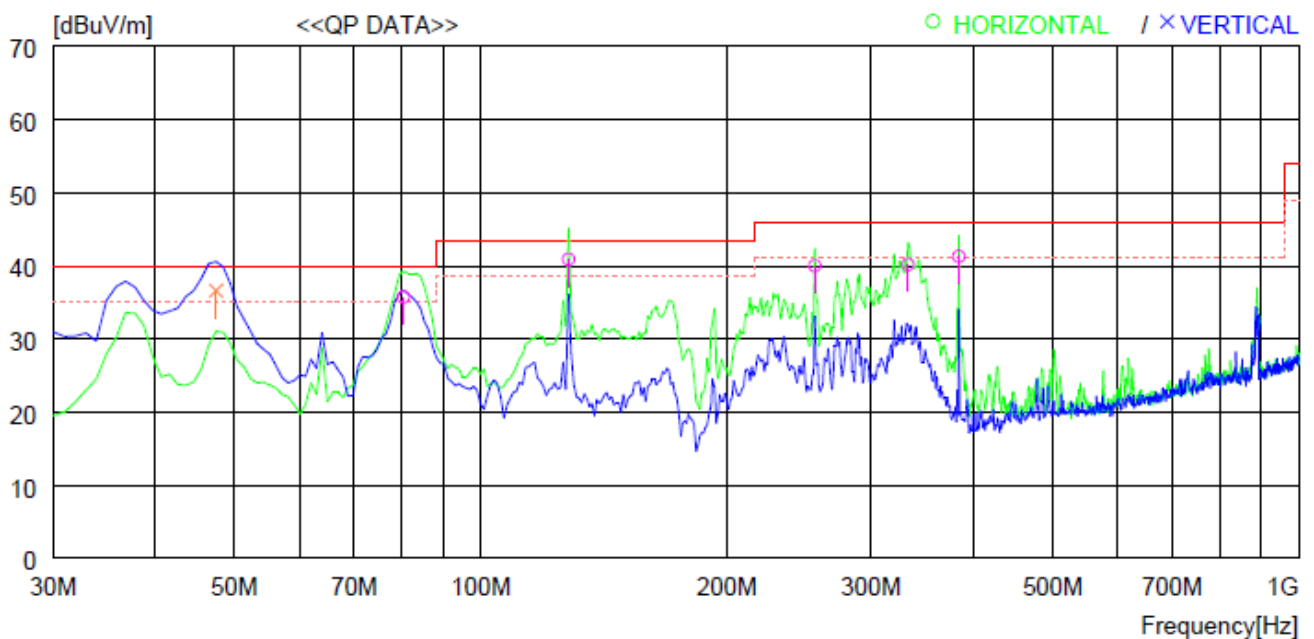
7.8.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 50 % R.H. Temperature: 22 °C
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209
 Frequency range : 30 MHz ~ 1 000 MHz
 Result : PASSED

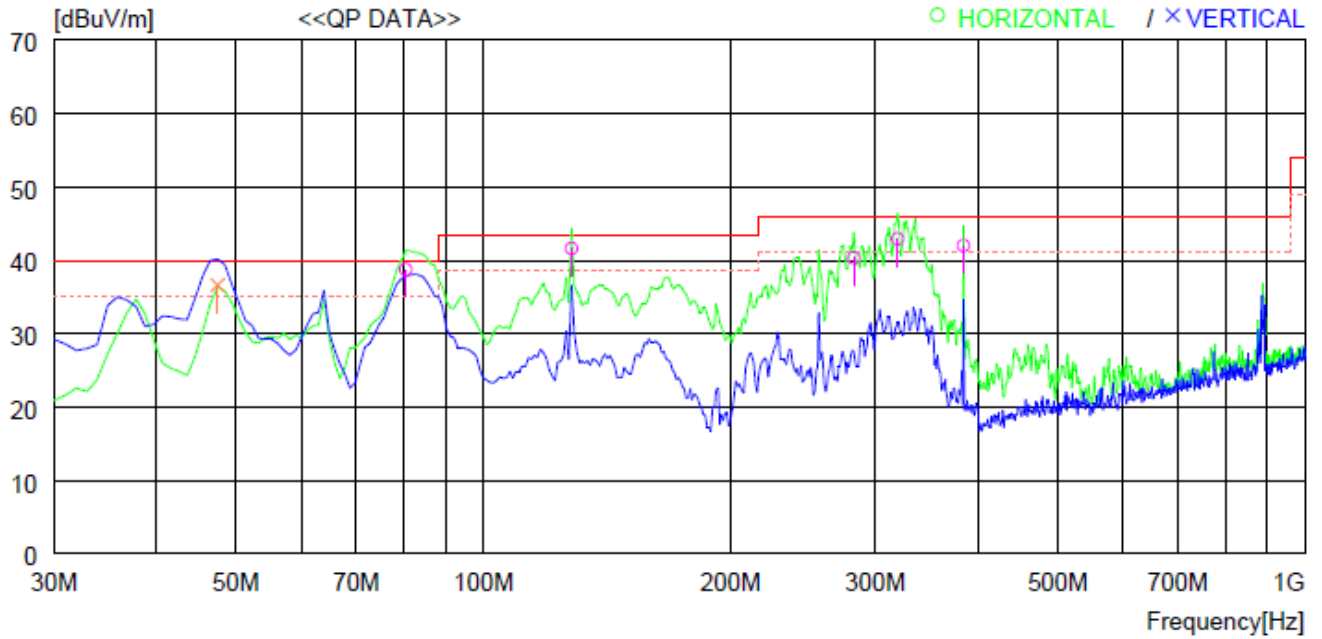
EUT : Tekdec-Smart Desk
 Operating Condition : Transmitting Mode & Charging Mode

-. Using Max load (1000 mA)



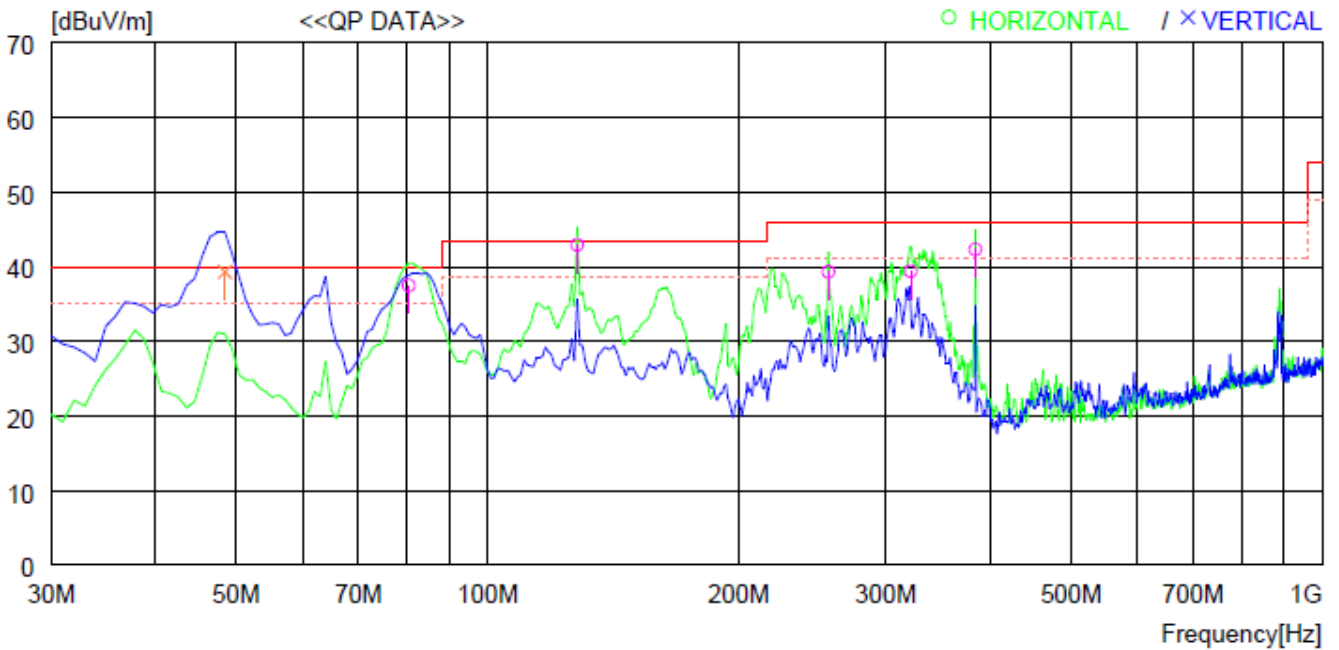
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	80.440	54.3	12.8	1.7	33.1	35.7	40.0	4.3	400	0
2	127.970	52.6	19.1	2.2	33.0	40.9	43.5	2.6	200	0
3	256.010	51.9	17.9	3.2	33.0	40.0	46.0	6.0	100	299
4	332.640	49.8	19.8	3.6	33.0	40.2	46.0	5.8	100	206
5	384.050	50.0	20.5	3.8	33.0	41.3	46.0	4.7	100	48
----- Vertical -----										
6	47.460	54.2	14.2	1.3	33.1	36.6	40.0	3.4	100	0

-. Using Mid load (500 mA)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	80.440	57.3	12.8	1.7	33.1	38.7	40.0	1.3	200	0
2	127.970	53.3	19.1	2.2	33.0	41.6	43.5	1.9	200	0
3	282.200	51.2	18.9	3.2	33.0	40.3	46.0	5.7	100	359
4	319.060	52.9	19.5	3.5	33.0	42.9	46.0	3.1	100	359
5	384.050	50.7	20.5	3.8	33.0	42.0	46.0	4.0	100	359
----- Vertical -----										
6	47.460	54.2	14.2	1.3	33.1	36.6	40.0	3.4	100	0

-. Using Min load (100 mA)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	80.440	56.1	12.8	1.7	33.1	37.5	40.0	2.5	200	82
2	127.970	54.6	19.1	2.2	33.0	42.9	43.5	0.6	200	82
3	256.010	51.2	17.9	3.2	33.0	39.3	46.0	6.7	100	359
4	321.000	49.4	19.5	3.5	33.0	39.4	46.0	6.6	100	359
5	384.050	51.0	20.5	3.8	33.0	42.3	46.0	3.7	100	38
----- Vertical -----										
6	48.430	57.4	13.8	1.2	33.1	39.3	40.0	0.7	100	4

7.9 Test data for Antenna 1 [DC 12.0 V]

7.9.1 Spurious Radiated Emission Below 30 MHz

Humidity Level : 50 % R.H.

Temperature: 22 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency Range : 9 kHz ~ 30 MHz

Result : PASSED

EUT : Tekdec-Smart Desk

Operating Condition : Transmitting Mode & Charging Mode

-. Using Max load (1000 mA)

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.016	PK	50.36	18.6	0.1	69.1	-10.9	43.5	54.5
*0.174	PK	58.4	18.9	0.2	77.5	-2.5	22.8	25.3
0.380	PK	33.0	18.9	0.2	52.1	-27.9	16.0	44.0

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
5.505	PK	21.3	19.1	0.2	40.6	0.6	30.0	29.4
18.513	PK	17.1	19.7	0.2	37.0	-3.0	30.0	33.0

-. "*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]

= Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

-. Using Mid load (500 mA)

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.018	PK	50.7	18.6	0.1	69.4	-10.7	42.5	53.2
0.034	PK	42.7	18.9	0.2	61.8	-18.2	37.0	55.2
*0.167	PK	56.9	18.9	0.2	76.0	-4.0	23.2	27.2
0.368	PK	45.7	18.9	0.2	64.8	-15.2	16.3	31.5

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
1.391	PK	20.8	23.3	0.2	44.3	4.3	24.7	20.5
5.476	PK	15.4	21.1	1.0	37.5	-2.5	30.0	32.5

-. “*” Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]
 = Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,
 Below 30 MHz

-. Using Min load (100 mA)

Frequency (MHz)	Detector	Reading (dB μ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB μ V/m)	Emission Level at 300m (dB μ V/m)	Limit at 300m (dB μ V/m)	Margin (dB)
0.018	PK	50.34	18.6	0.1	69.0	-11.0	42.5	53.5
*0.168	PK	60.7	18.9	0.2	79.8	-0.2	23.1	23.3
0.254	PK	36.5	18.9	0.2	55.6	-24.4	19.5	43.9

Frequency (MHz)	Detector	Reading (dB μ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB μ V/m)	Emission Level at 30m (dB μ V/m)	Limit at 30m (dB μ V/m)	Margin (dB)
5.476	PK	20.4	18.8	0.2	39.4	-0.6	30.0	30.6
18.629	PK	16.5	19.1	0.2	35.8	-4.2	30.0	34.2

-. "*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dB μ V] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dB μ V/m] – Limit at 300m [dB μ V/m]
 = Emission Level at 300m [dB μ V/m] – Limit at 30m [dB μ V/m]

-. Emission Level at 300m [dB μ V/m] = Emission Level at 3m [dB μ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dB μ V/m] = Emission Level at 3m [dB μ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,
 Below 30 MHz

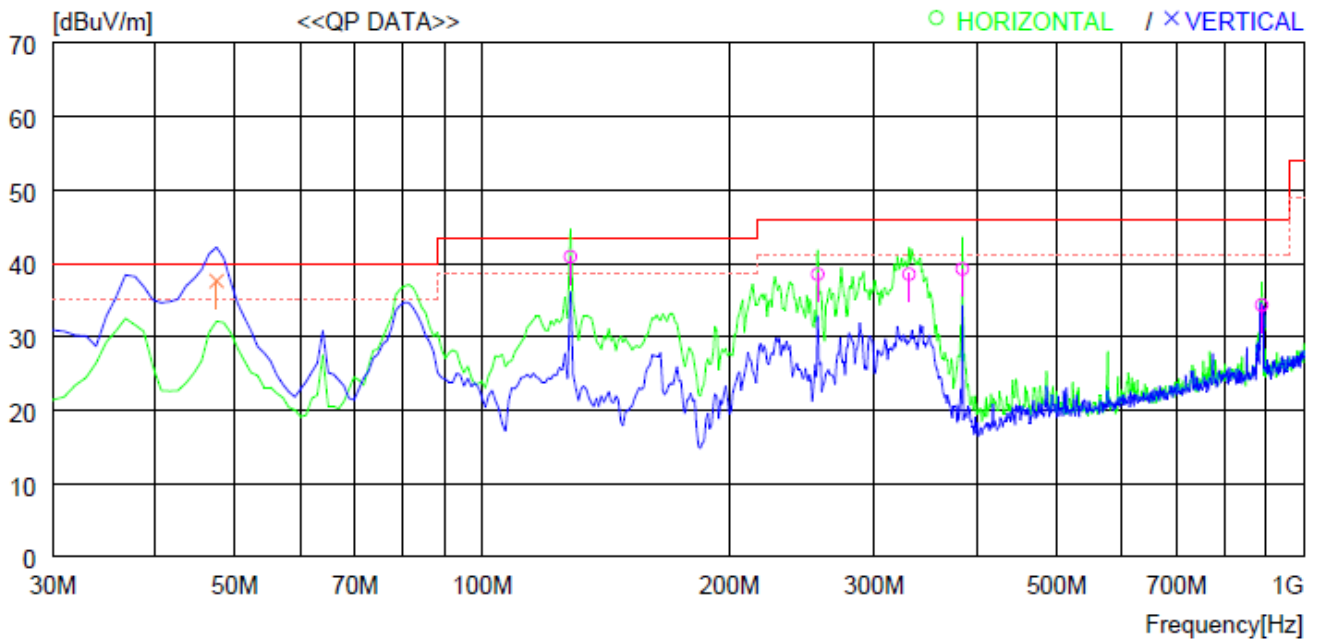
7.9.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 50 % R.H. Temperature: 22 °C
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209
 Frequency range : 30 MHz ~ 1 000 MHz
 Result : PASSED

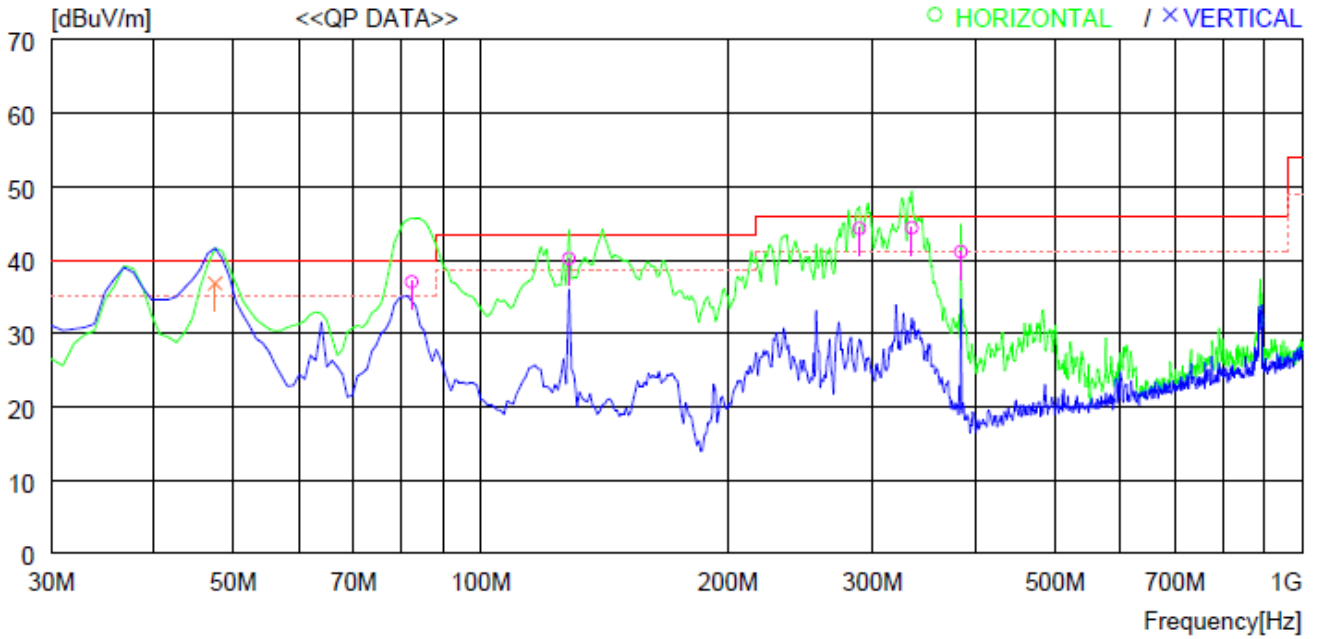
EUT : Tekdec-Smart Desk
 Operating Condition : Transmitting Mode & Charging Mode

-. Using Max load (1000 mA)



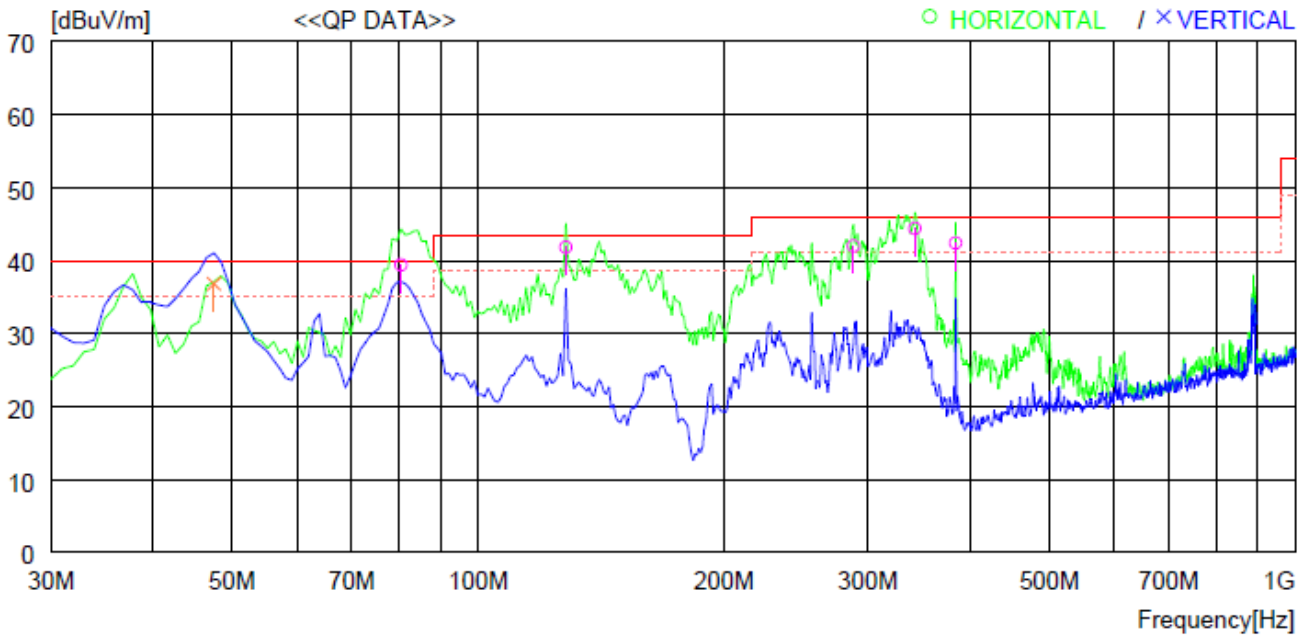
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	127.970	52.6	19.1	2.2	33.0	40.9	43.5	2.6	200	84
2	256.010	50.4	17.9	3.2	33.0	38.5	46.0	7.5	100	359
3	330.700	48.2	19.7	3.6	33.0	38.5	46.0	7.5	100	165
4	384.050	47.9	20.5	3.8	33.0	39.2	46.0	6.8	100	39
5	888.439	33.5	27.5	5.9	32.6	34.3	46.0	11.7	400	26
----- Vertical -----										
6	47.460	55.2	14.2	1.3	33.1	37.6	40.0	2.4	100	0

-. Using Mid load (500 mA)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	82.380	55.5	12.9	1.7	33.1	37.0	40.0	3.0	200	0
2	127.970	51.9	19.1	2.2	33.0	40.2	43.5	3.3	300	359
3	288.990	55.0	19.0	3.3	33.0	44.3	46.0	1.7	100	359
4	334.580	54.0	19.8	3.6	33.0	44.4	46.0	1.6	100	359
5	384.050	49.8	20.5	3.8	33.0	41.1	46.0	4.9	100	39
----- Vertical -----										
6	47.460	54.4	14.2	1.3	33.1	36.8	40.0	3.2	100	0

-. Using Min load (100 mA)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	80.440	58.0	12.8	1.7	33.1	39.4	40.0	0.6	200	0
2	127.970	53.5	19.1	2.2	33.0	41.8	43.5	1.7	200	90
3	288.020	52.7	19.0	3.3	33.0	42.0	46.0	4.0	100	310
4	342.340	53.9	19.9	3.6	33.0	44.4	46.0	1.6	100	359
5	384.050	51.1	20.5	3.8	33.0	42.4	46.0	3.6	100	30
----- Vertical -----										
6	47.460	54.4	14.2	1.3	33.1	36.8	40.0	3.2	200	295

7.10 Test data for Antenna 0 + Antenna 1

7.10.1 Spurious Radiated Emission Below 30 MHz

Humidity Level : 50 % R.H.

Temperature: 22 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency Range : 9 kHz ~ 30 MHz

Result : PASSED

EUT : Tekdec-Smart Desk

Operating Condition : Transmitting Mode & Charging Mode

-. Using Max load (1000 mA)

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.016	PK	39.8	18.6	0.1	58.5	-21.5	43.5	65.0
*0.132	PK	58.0	18.9	0.2	77.1	-2.9	25.2	28.1
*0.142	PK	49.1	18.9	0.2	68.2	-11.8	24.6	36.4
0.389	PK	33.0	18.9	0.2	52.1	-27.9	15.8	43.8

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
22.776	PK	22.7	19.9	0.2	42.8	2.8	30.0	27.2

-. “*” Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]

= Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

-. Using Mid load (500 mA)

Frequency (MHz)	Detector	Reading (dB μ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB μ V/m)	Emission Level at 300m (dB μ V/m)	Limit at 300m (dB μ V/m)	Margin (dB)
0.016	PK	39.8	18.6	0.1	58.5	-21.5	43.5	65.0
0.031	PK	38.6	18.9	0.2	57.7	-22.3	37.8	60.1
*0.131	PK	58.4	18.9	0.2	19.1	-60.9	25.3	86.2
*0.144	PK	49.0	18.9	0.2	68.1	-11.9	24.4	36.3
0.389	PK	36.4	18.9	0.2	55.5	-24.5	15.8	40.3

Frequency (MHz)	Detector	Reading (dB μ V)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dB μ V/m)	Emission Level at 30m (dB μ V/m)	Limit at 30m (dB μ V/m)	Margin (dB)
22.77	PK	22.8	23.3	0.2	46.3	6.3	30.0	23.7

-. "*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dB μ V] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dB μ V/m] – Limit at 300m [dB μ V/m]
 = Emission Level at 300m [dB μ V/m] – Limit at 30m [dB μ V/m]

-. Emission Level at 300m [dB μ V/m] = Emission Level at 3m [dB μ V/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dB μ V/m] = Emission Level at 3m [dB μ V/m] - 40log (30/3), 40 dB for above 0.49 MHz,
 Below 30 MHz

-. Using Min load (100 mA)

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.016	PK	39.4	18.6	0.1	58.1	-21.9	43.5	65.4
0.134	PK	57.4	18.6	0.1	76.1	-3.9	25.1	29.0
0.147	PK	48.0	18.9	0.2	67.1	-12.9	24.3	37.2
0.389	PK	36.2	18.9	0.2	55.3	-24.7	15.8	40.5

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
22.03	PK	21.8	18.8	0.2	40.8	0.8	30.0	29.2

-. "*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]
 = Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,
 Below 30 MHz

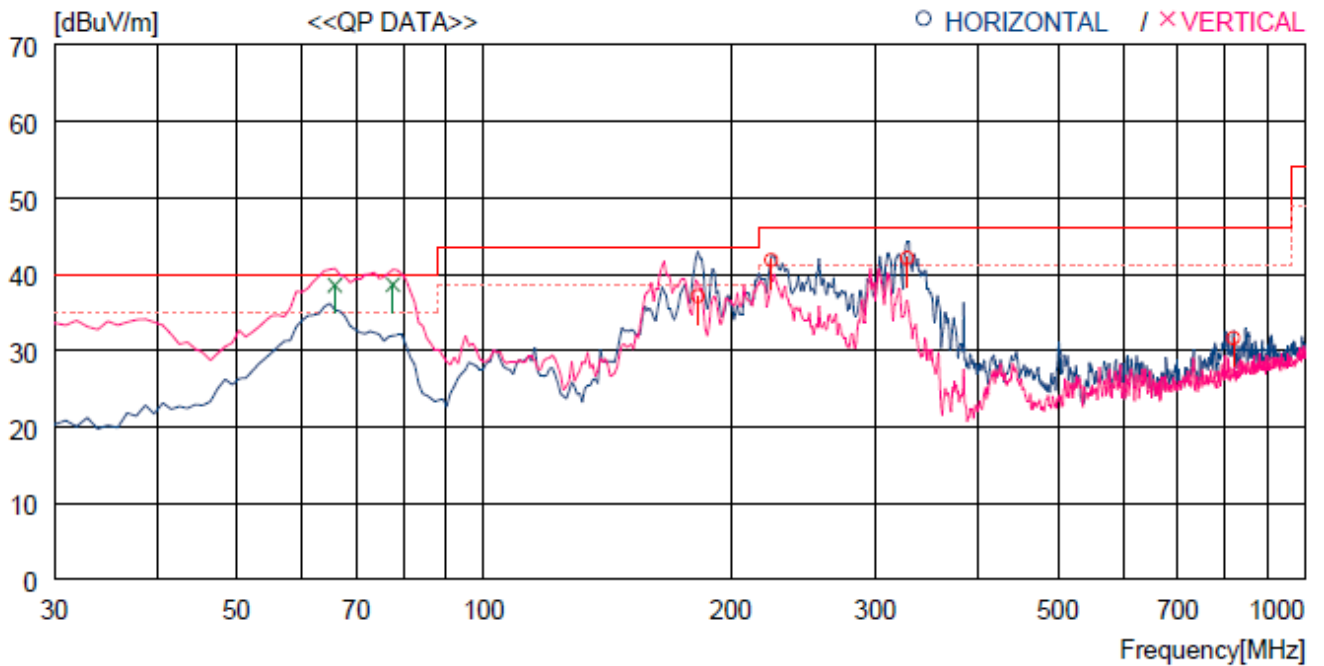
7.10.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 50 % R.H. Temperature: 22 °C
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209
 Frequency range : 30 MHz ~ 1 000 MHz
 Result : PASSED

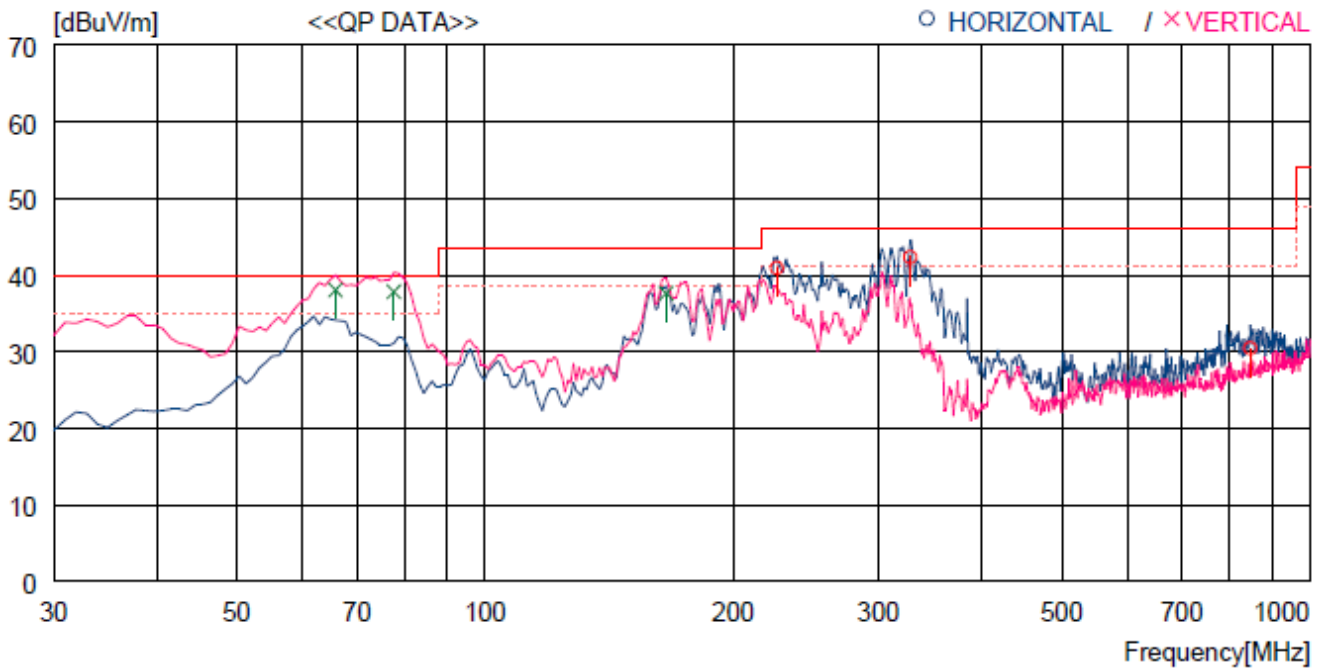
EUT : Tekdec-Smart Desk
 Operating Condition : Transmitting Mode & Charging Mode

-. Using Max load (1000 mA)



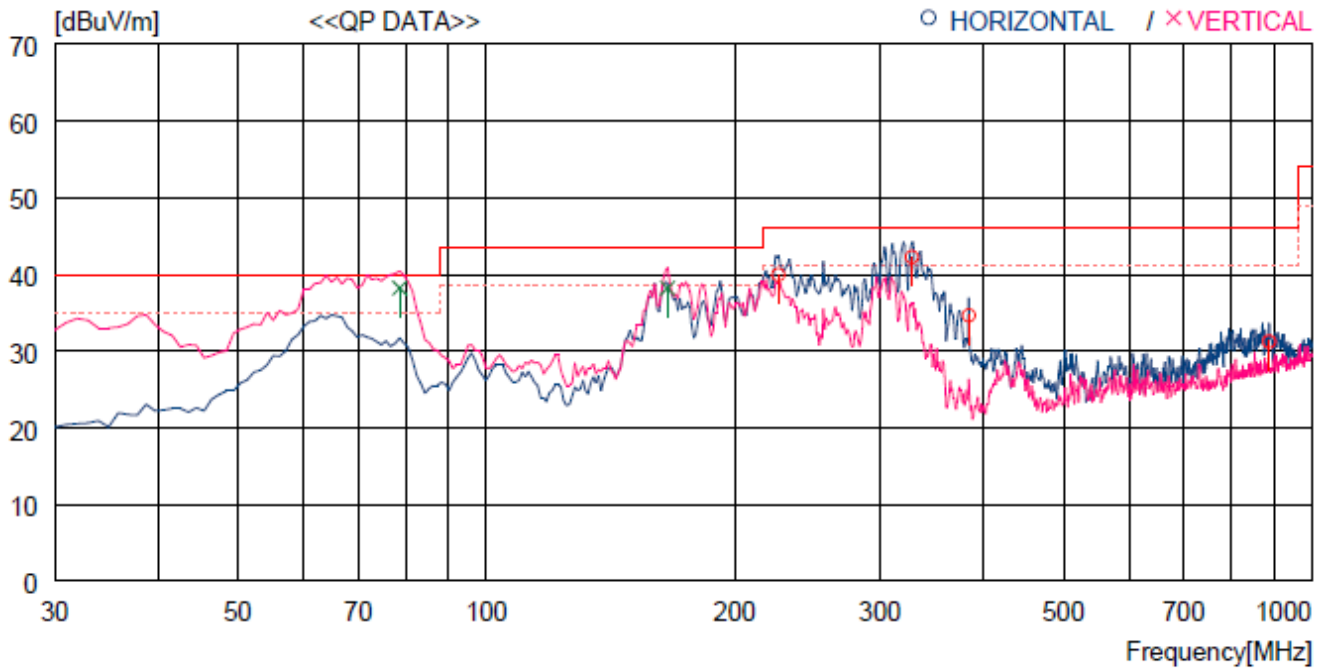
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	182.290	50.5	16.4	3.2	33.0	37.1	43.5	6.4	200	359
2	327.790	51.1	19.7	4.3	33.0	42.1	46.0	3.9	100	0
3	224.000	55.5	15.8	3.5	33.0	41.8	46.0	4.2	100	0
4	818.601	30.5	27.2	6.9	33.0	31.6	46.0	14.4	100	64
----- Vertical -----										
5	65.890	57.1	12.6	1.9	33.1	38.5	40.0	1.5	100	19
6	77.530	56.7	12.8	2.2	33.1	38.6	40.0	1.4	100	61

-. Using Mid load (500 mA)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
--- Horizontal ---										
1	225.940	55.1	15.9	2.9	33.0	40.9	46.0	5.1	200	0
2	327.790	52.1	19.7	3.5	33.0	42.3	46.0	3.7	100	172
3	846.731	30.4	27.3	5.7	33.0	30.4	46.0	15.6	100	214
--- Vertical ---										
4	65.890	57.0	12.6	1.5	33.1	38.0	40.0	2.0	100	0
5	77.530	56.4	12.8	1.7	33.1	37.8	40.0	2.2	100	0
6	165.800	50.4	17.7	2.5	33.0	37.6	43.5	5.9	100	0

-. Using Min load (100 mA)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
---- Horizontal ----										
1	225.940	54.1	15.9	2.9	33.0	39.9	46.0	6.1	200	0
2	327.790	52.0	19.7	3.5	33.0	42.2	46.0	3.8	100	359
3	384.050	43.3	20.5	3.8	33.0	34.6	46.0	11.4	100	359
4	887.469	30.5	27.4	5.9	32.6	31.2	46.0	14.8	100	206
---- Vertical ----										
5	78.500	56.8	12.8	1.7	33.1	38.2	40.0	1.8	100	2
6	165.800	51.0	17.7	2.5	33.0	38.2	43.5	5.3	100	299

8. CONDUCTED EMISSION TEST

8.1 Operating environment

Temperature : 22 °C
Relative humidity : 50 % R.H

8.2 Test set-up

The EUT was placed on a wooden table, 0.8 m height above the floor. Power was fed to the EUT through a 50 Ω / 50 μ H + 5 Ω Artificial Mains Network (AMN). The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

8.3 Test equipment used

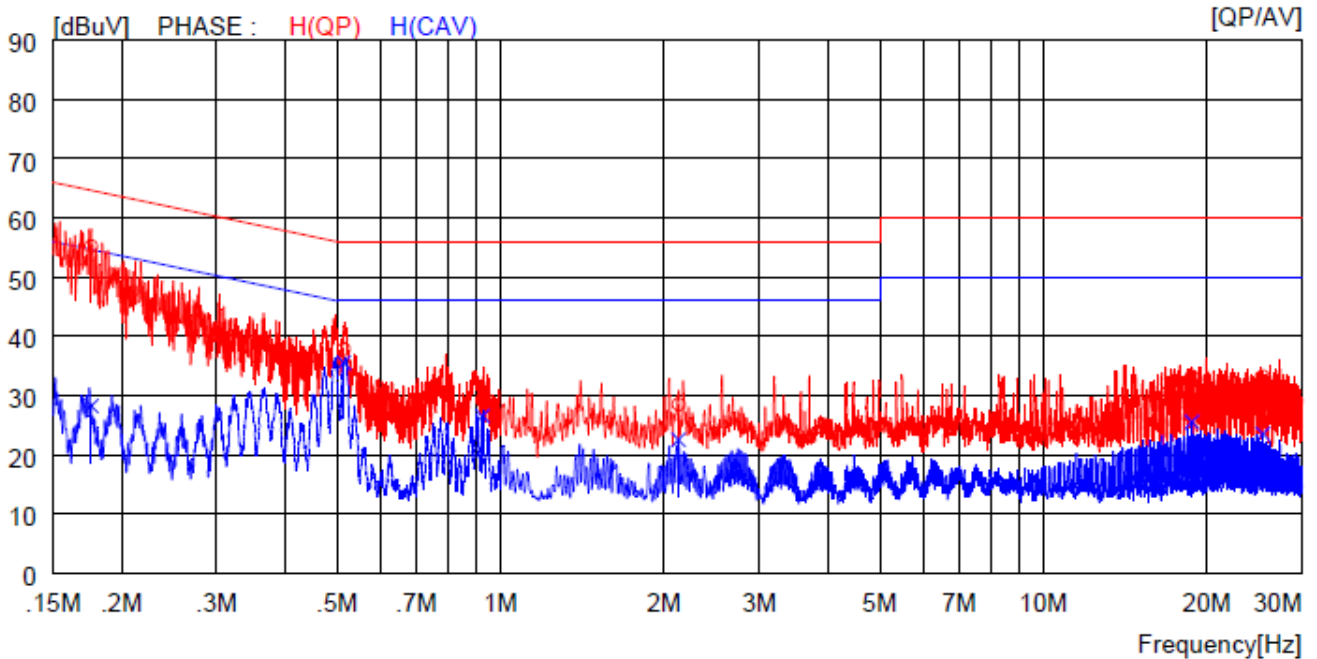
All test equipment used is calibrated on a regular basis.

8.4 Test date

December 14, 2021 ~ December 20, 2021

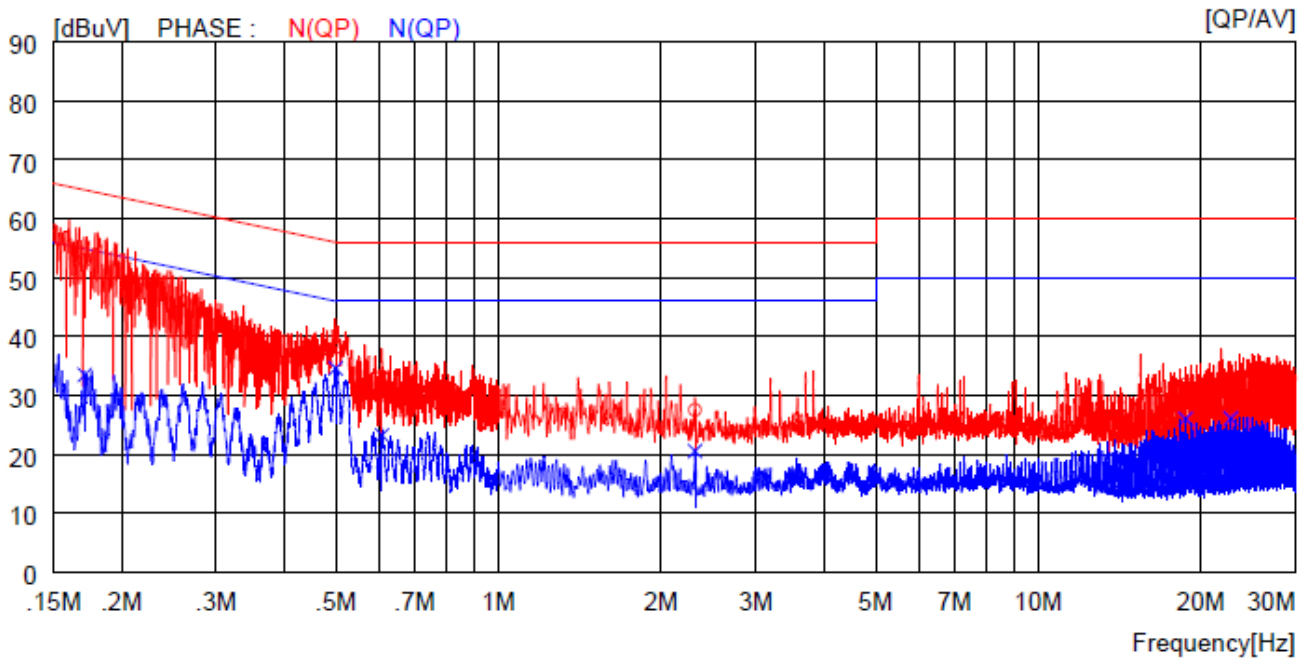
8.5 Test data for Antenna 0 [DC 5.0 V]

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17600	45.2	----	10.0	55.2	----	64.7	----	9.5	----	H (QP)
2	0.51400	27.8	----	10.0	37.8	----	56.0	----	18.2	----	H (QP)
3	0.92600	19.2	----	10.0	29.2	----	56.0	----	26.8	----	H (QP)
4	2.12800	18.4	----	10.1	28.5	----	56.0	----	27.5	----	H (QP)
5	18.79000	22.8	----	10.4	33.2	----	60.0	----	26.8	----	H (QP)
6	25.38000	22.7	----	10.5	33.2	----	60.0	----	26.8	----	H (QP)
7	0.17600	----	18.2	10.0	----	28.2	----	54.7	----	26.5	H (CAV)
8	0.51400	----	25.5	10.0	----	35.5	----	46.0	----	10.5	H (CAV)
9	0.92600	----	16.5	10.0	----	26.5	----	46.0	----	19.5	H (CAV)
10	2.12800	----	12.4	10.1	----	22.5	----	46.0	----	23.5	H (CAV)
11	18.79000	----	15.1	10.4	----	25.5	----	50.0	----	24.5	H (CAV)
12	25.38000	----	13.0	10.5	----	23.5	----	50.0	----	26.5	H (CAV)

- Tested Line : NEUTRAL LINE



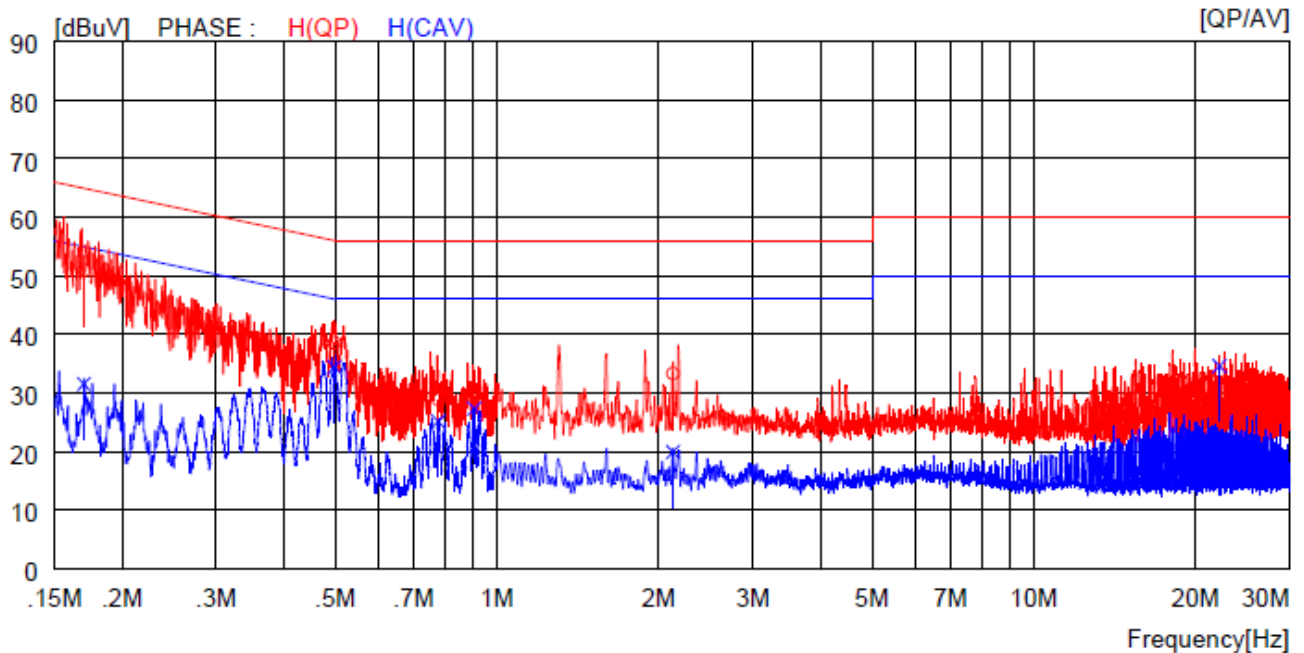
NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17100	42.9	----	10.0	52.9	----	64.9	----	12.0	----	N (QP)
2	0.49900	28.1	----	10.0	38.1	----	56.0	----	17.9	----	N (QP)
3	0.60800	23.1	----	10.0	33.1	----	56.0	----	22.9	----	N (QP)
4	2.31200	17.4	----	10.1	27.5	----	56.0	----	28.5	----	N (QP)
5	18.75000	21.5	----	10.4	31.9	----	60.0	----	28.1	----	N (QP)
6	22.75000	22.2	----	10.4	32.6	----	60.0	----	27.4	----	N (QP)
7	0.17100	----	23.5	10.0	----	33.5	----	54.9	----	21.4	N (CAV)
8	0.49900	----	24.6	10.0	----	34.6	----	46.0	----	11.4	N (CAV)
9	0.60800	----	13.2	10.0	----	23.2	----	46.0	----	22.8	N (CAV)
10	2.31200	----	10.4	10.1	----	20.5	----	46.0	----	25.5	N (CAV)
11	18.75000	----	15.6	10.4	----	26.0	----	50.0	----	24.0	N (CAV)
12	22.75000	----	15.7	10.4	----	26.1	----	50.0	----	23.9	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

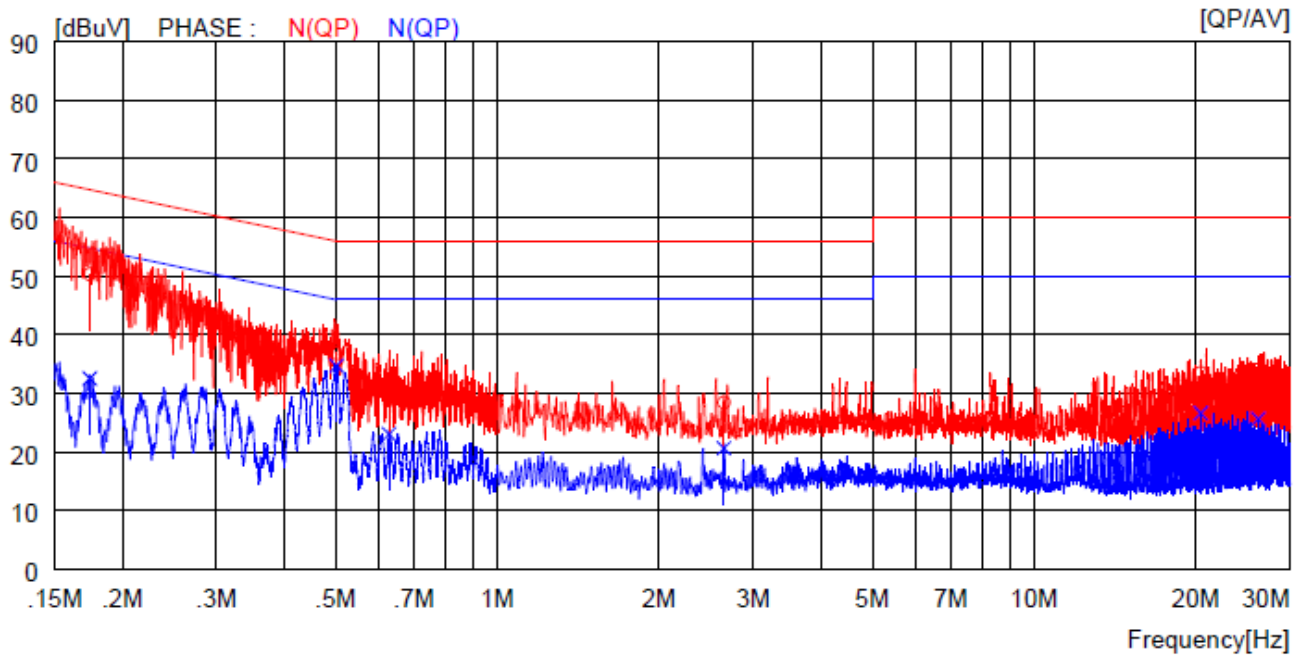
8.6 Test data for Antenna 0 [DC 9.0 V]

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17000	40.9	----	10.0	50.9	----	65.0	----	14.1	----	H (QP)
2	0.49800	28.5	----	10.0	38.5	----	56.0	----	17.5	----	H (QP)
3	0.77700	18.9	----	10.0	28.9	----	56.0	----	27.1	----	H (QP)
4	0.90800	19.4	----	10.0	29.4	----	56.0	----	26.6	----	H (QP)
5	2.12800	23.2	----	10.1	33.3	----	56.0	----	22.7	----	H (QP)
6	22.19000	22.9	----	10.4	33.3	----	60.0	----	26.7	----	H (QP)
7	0.17000	----	21.5	10.0	----	31.5	----	55.0	----	23.5	H (CAV)
8	0.49800	----	24.4	10.0	----	34.4	----	46.0	----	11.6	H (CAV)
9	0.77700	----	15.1	10.0	----	25.1	----	46.0	----	20.9	H (CAV)
10	0.90800	----	17.3	10.0	----	27.3	----	46.0	----	18.7	H (CAV)
11	2.12800	----	9.8	10.1	----	19.9	----	46.0	----	26.1	H (CAV)
12	22.19000	----	24.2	10.4	----	34.6	----	50.0	----	15.4	H (CAV)

- Test Line : NEUTRAL LINE



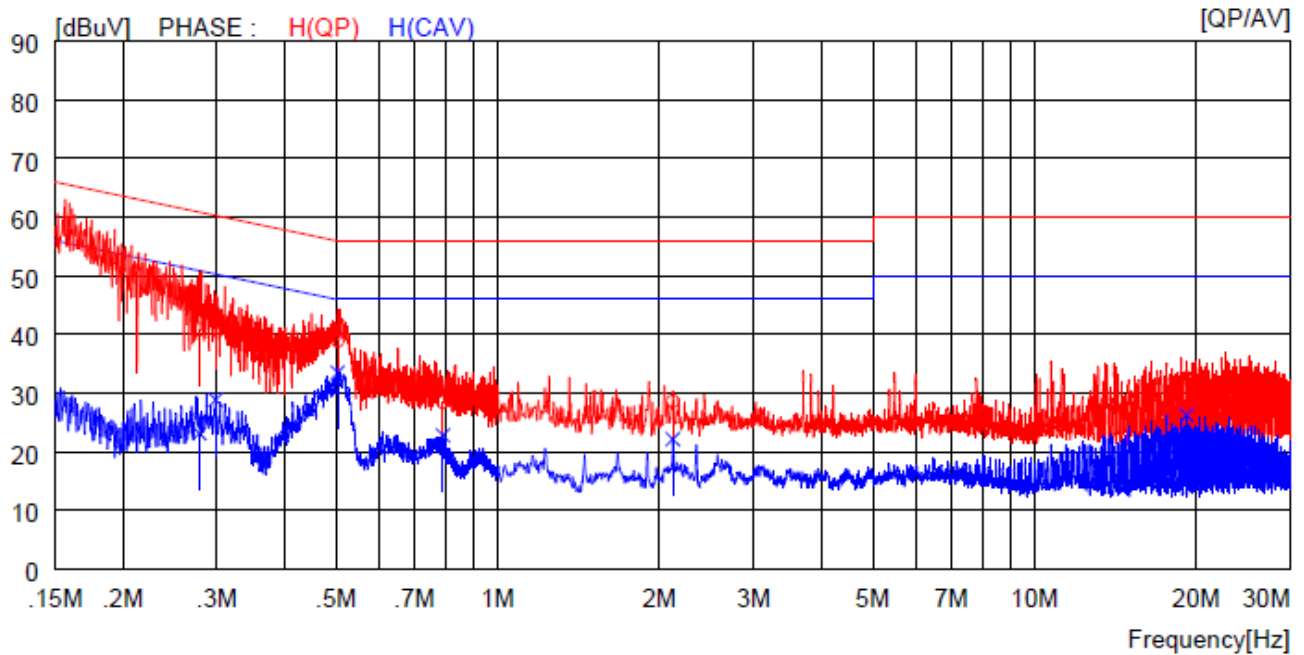
NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.17400	40.3	----	10.0	50.3	----	64.8	----	14.5	----	N (QP)
2	0.50200	26.8	----	10.0	36.8	----	56.0	----	19.2	----	N (QP)
3	0.62800	19.5	----	10.0	29.5	----	56.0	----	26.5	----	N (QP)
4	2.64400	18.3	----	10.1	28.4	----	56.0	----	27.6	----	N (QP)
5	20.45000	23.1	----	10.4	33.5	----	60.0	----	26.5	----	N (QP)
6	26.18000	23.5	----	10.5	34.0	----	60.0	----	26.0	----	N (QP)
7	0.17400	----	22.5	10.0	----	32.5	----	54.8	----	22.3	N (CAV)
8	0.50200	----	24.7	10.0	----	34.7	----	46.0	----	11.3	N (CAV)
9	0.62800	----	13.0	10.0	----	23.0	----	46.0	----	23.0	N (CAV)
10	2.64400	----	10.5	10.1	----	20.6	----	46.0	----	25.4	N (CAV)
11	20.45000	----	16.2	10.4	----	26.6	----	50.0	----	23.4	N (CAV)
12	26.18000	----	15.1	10.5	----	25.6	----	50.0	----	24.4	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

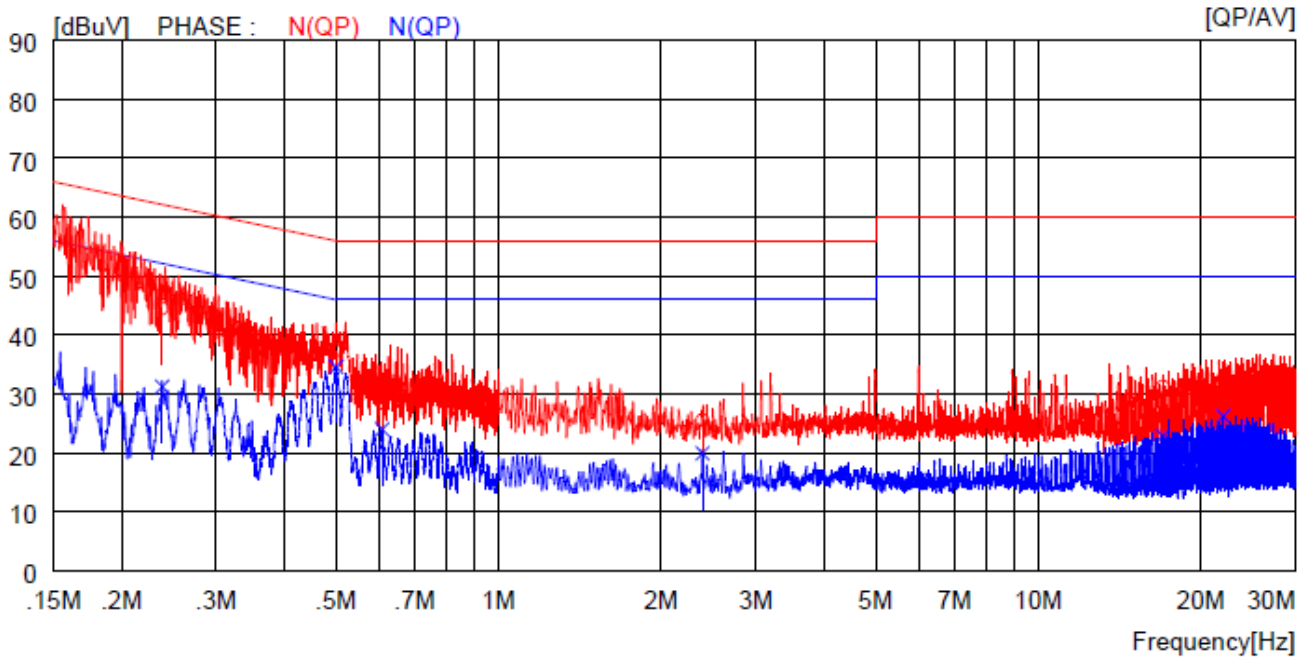
8.7 Test data for Antenna 0 [DC 12.0 V]

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.27800	30.8	----	10.0	40.8	----	60.9	----	20.1	----	H (QP)
2	0.29800	33.5	----	10.0	43.5	----	60.3	----	16.8	----	H (QP)
3	0.50300	28.9	----	10.0	38.9	----	56.0	----	17.1	----	H (QP)
4	0.79000	18.4	----	10.0	28.4	----	56.0	----	27.6	----	H (QP)
5	2.12000	18.5	----	10.1	28.6	----	56.0	----	27.4	----	H (QP)
6	19.20000	22.2	----	10.4	32.6	----	60.0	----	27.4	----	H (QP)
7	0.27800	----	13.1	10.0	----	23.1	----	50.9	----	27.8	H (CAV)
8	0.29800	----	18.8	10.0	----	28.8	----	50.3	----	21.5	H (CAV)
9	0.50300	----	23.5	10.0	----	33.5	----	46.0	----	12.5	H (CAV)
10	0.79000	----	12.7	10.0	----	22.7	----	46.0	----	23.3	H (CAV)
11	2.12000	----	12.0	10.1	----	22.1	----	46.0	----	23.9	H (CAV)
12	19.20000	----	15.8	10.4	----	26.2	----	50.0	----	23.8	H (CAV)

- Test Line : NEUTRAL LINE



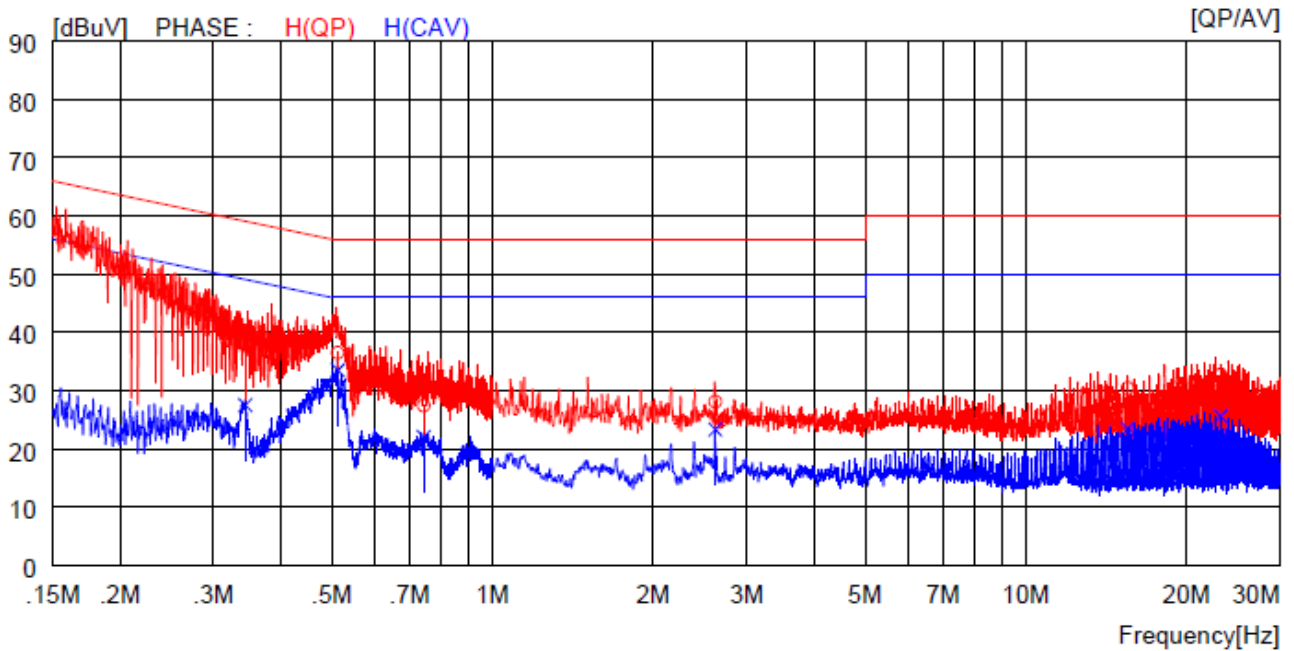
NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.23800	34.5	----	10.0	44.5	----	62.2	----	17.7	----	N (QP)
2	0.50000	27.4	----	10.0	37.4	----	56.0	----	18.6	----	N (QP)
3	0.60900	18.5	----	10.0	28.5	----	56.0	----	27.5	----	N (QP)
4	2.38800	15.4	----	10.1	25.5	----	56.0	----	30.5	----	N (QP)
5	17.02000	20.9	----	10.3	31.2	----	60.0	----	28.8	----	N (QP)
6	22.02000	22.2	----	10.4	32.6	----	60.0	----	27.4	----	N (QP)
7	0.23800	----	21.2	10.0	----	31.2	----	52.2	----	21.0	N (CAV)
8	0.50000	----	24.6	10.0	----	34.6	----	46.0	----	11.4	N (CAV)
9	0.60900	----	14.0	10.0	----	24.0	----	46.0	----	22.0	N (CAV)
10	2.38800	----	9.8	10.1	----	19.9	----	46.0	----	26.1	N (CAV)
11	17.02000	----	12.5	10.3	----	22.8	----	50.0	----	27.2	N (CAV)
12	22.02000	----	15.8	10.4	----	26.2	----	50.0	----	23.8	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

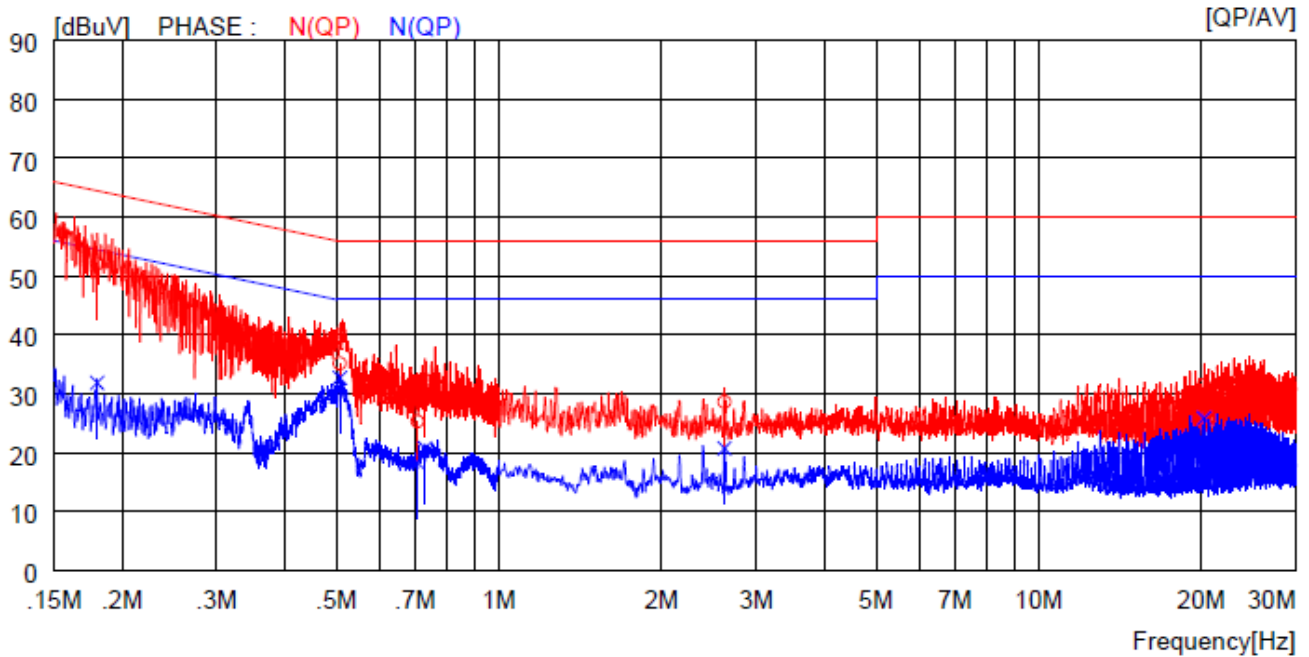
8.8 Test data for Antenna 1 [DC 5.0 V]

- . Resolution bandwidth : 9 kHz
- . Frequency range : 0.15 MHz ~ 30 MHz
- . Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.34400	27.8	----	10.0	37.8	----	59.1	----	21.3	----	H (QP)
2	0.51300	26.5	----	10.0	36.5	----	56.0	----	19.5	----	H (QP)
3	0.74300	17.4	----	10.0	27.4	----	56.0	----	28.6	----	H (QP)
4	2.61600	18.0	----	10.1	28.1	----	56.0	----	27.9	----	H (QP)
5	15.52000	20.1	----	10.3	30.4	----	60.0	----	29.6	----	H (QP)
6	23.21000	22.2	----	10.5	32.7	----	60.0	----	27.3	----	H (QP)
7	0.34400	----	17.5	10.0	----	27.5	----	49.1	----	21.6	H (CAV)
8	0.51300	----	23.5	10.0	----	33.5	----	46.0	----	12.5	H (CAV)
9	0.74300	----	12.0	10.0	----	22.0	----	46.0	----	24.0	H (CAV)
10	2.61600	----	13.2	10.1	----	23.3	----	46.0	----	22.7	H (CAV)
11	15.52000	----	13.1	10.3	----	23.4	----	50.0	----	26.6	H (CAV)
12	23.21000	----	15.1	10.5	----	25.6	----	50.0	----	24.4	H (CAV)

-. Tested Line : NEUTRAL LINE



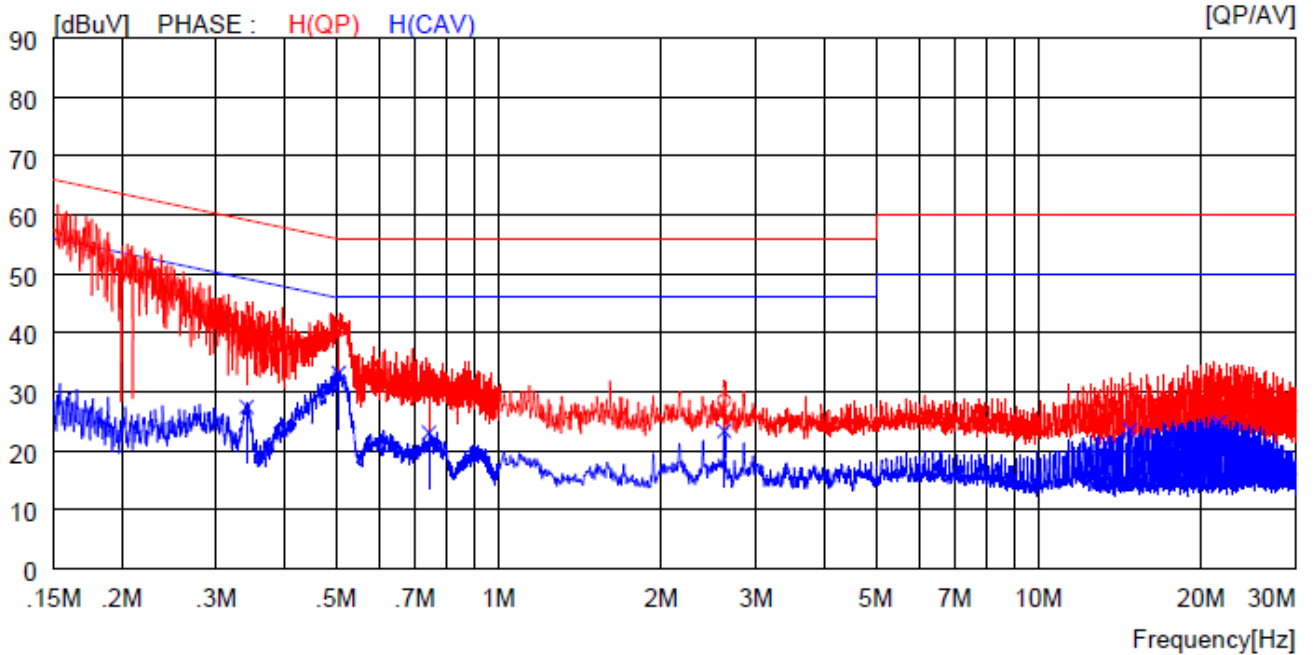
NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.18000	42.1	----	10.0	52.1	----	64.5	----	12.4	----	N (QP)
2	0.50700	25.1	----	10.0	35.1	----	56.0	----	20.9	----	N (QP)
3	0.70600	15.3	----	10.0	25.3	----	56.0	----	30.7	----	N (QP)
4	0.72900	22.3	----	10.0	32.3	----	56.0	----	23.7	----	N (QP)
5	2.61600	18.5	----	10.1	28.6	----	56.0	----	27.4	----	N (QP)
6	20.25000	21.1	----	10.4	31.5	----	60.0	----	28.5	----	N (QP)
7	0.18000	----	21.8	10.0	----	31.8	----	54.5	----	22.7	N (CAV)
8	0.50700	----	22.7	10.0	----	32.7	----	46.0	----	13.3	N (CAV)
9	0.70600	----	8.3	10.0	----	18.3	----	46.0	----	27.7	N (CAV)
10	0.72900	----	10.7	10.0	----	20.7	----	46.0	----	25.3	N (CAV)
11	2.61600	----	10.6	10.1	----	20.7	----	46.0	----	25.3	N (CAV)
12	20.25000	----	15.4	10.4	----	25.8	----	50.0	----	24.2	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

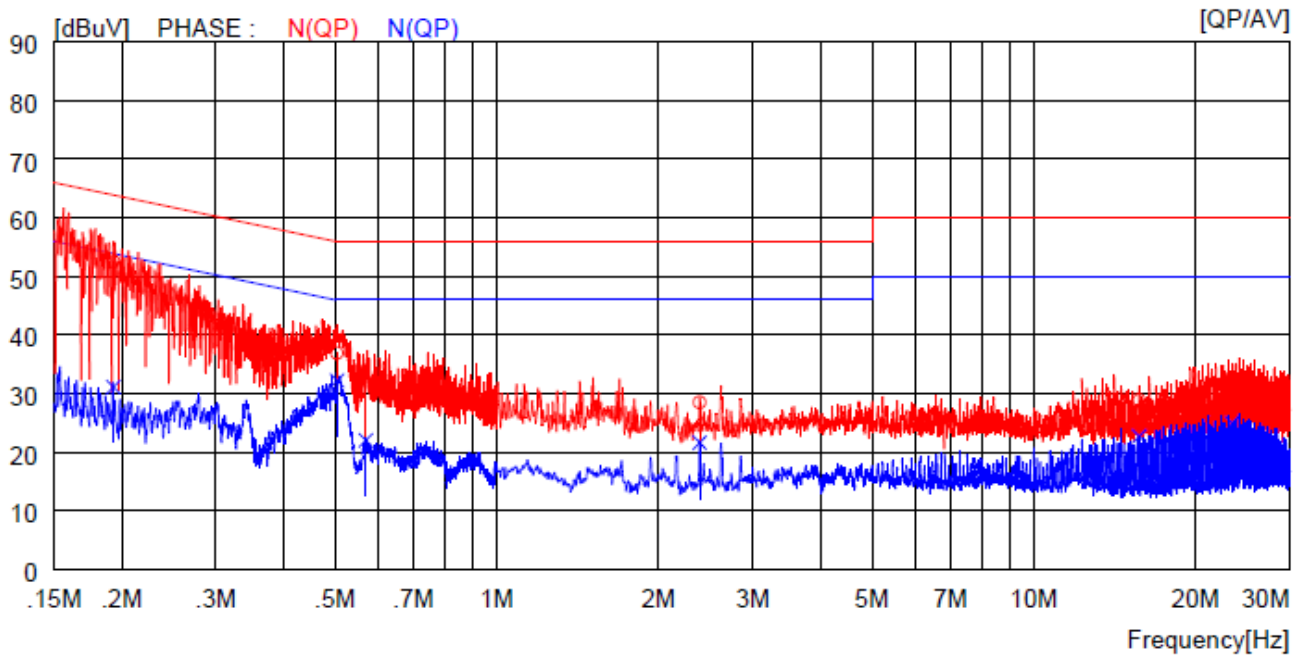
8.9 Test data for Antenna 1 [DC 9.0 V]

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.34100	30.8	----	10.0	40.8	----	59.2	----	18.4	----	H (QP)
2	0.50500	30.4	----	10.0	40.4	----	56.0	----	15.6	----	H (QP)
3	0.74300	22.2	----	10.0	32.2	----	56.0	----	23.8	----	H (QP)
4	2.61600	18.4	----	10.1	28.5	----	56.0	----	27.5	----	H (QP)
5	14.78000	19.9	----	10.3	30.2	----	60.0	----	29.8	----	H (QP)
6	21.60000	21.1	----	10.4	31.5	----	60.0	----	28.5	----	H (QP)
7	0.34100	----	17.4	10.0	----	27.4	----	49.2	----	21.8	H (CAV)
8	0.50500	----	23.2	10.0	----	33.2	----	46.0	----	12.8	H (CAV)
9	0.74300	----	13.0	10.0	----	23.0	----	46.0	----	23.0	H (CAV)
10	2.61600	----	13.2	10.1	----	23.3	----	46.0	----	22.7	H (CAV)
11	14.78000	----	13.2	10.3	----	23.5	----	50.0	----	26.5	H (CAV)
12	21.60000	----	14.4	10.4	----	24.8	----	50.0	----	25.2	H (CAV)

- Test Line : NEUTRAL LINE



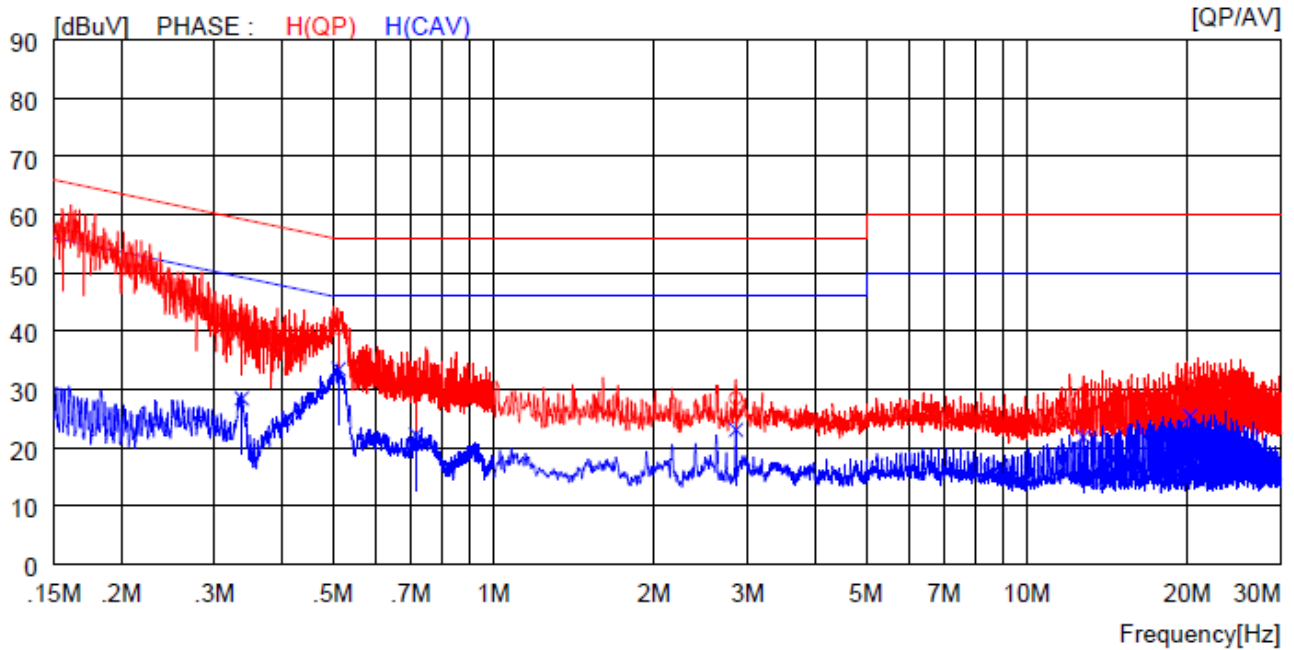
NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.19300	42.5	----	10.0	52.5	----	63.9	----	11.4	----	N(QP)
2	0.50400	26.9	----	10.0	36.9	----	56.0	----	19.1	----	N(QP)
3	0.57000	22.1	----	10.0	32.1	----	56.0	----	23.9	----	N(QP)
4	2.38800	18.4	----	10.1	28.5	----	56.0	----	27.5	----	N(QP)
5	15.71000	18.5	----	10.3	28.8	----	60.0	----	31.2	----	N(QP)
6	23.42000	22.2	----	10.5	32.7	----	60.0	----	27.3	----	N(QP)
7	0.19300	----	21.1	10.0	----	31.1	----	53.9	----	22.8	N(CAV)
8	0.50400	----	22.2	10.0	----	32.2	----	46.0	----	13.8	N(CAV)
9	0.57000	----	12.0	10.0	----	22.0	----	46.0	----	24.0	N(CAV)
10	2.38800	----	11.5	10.1	----	21.6	----	46.0	----	24.4	N(CAV)
11	15.71000	----	12.4	10.3	----	22.7	----	50.0	----	27.3	N(CAV)
12	23.42000	----	14.4	10.5	----	24.9	----	50.0	----	25.1	N(CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

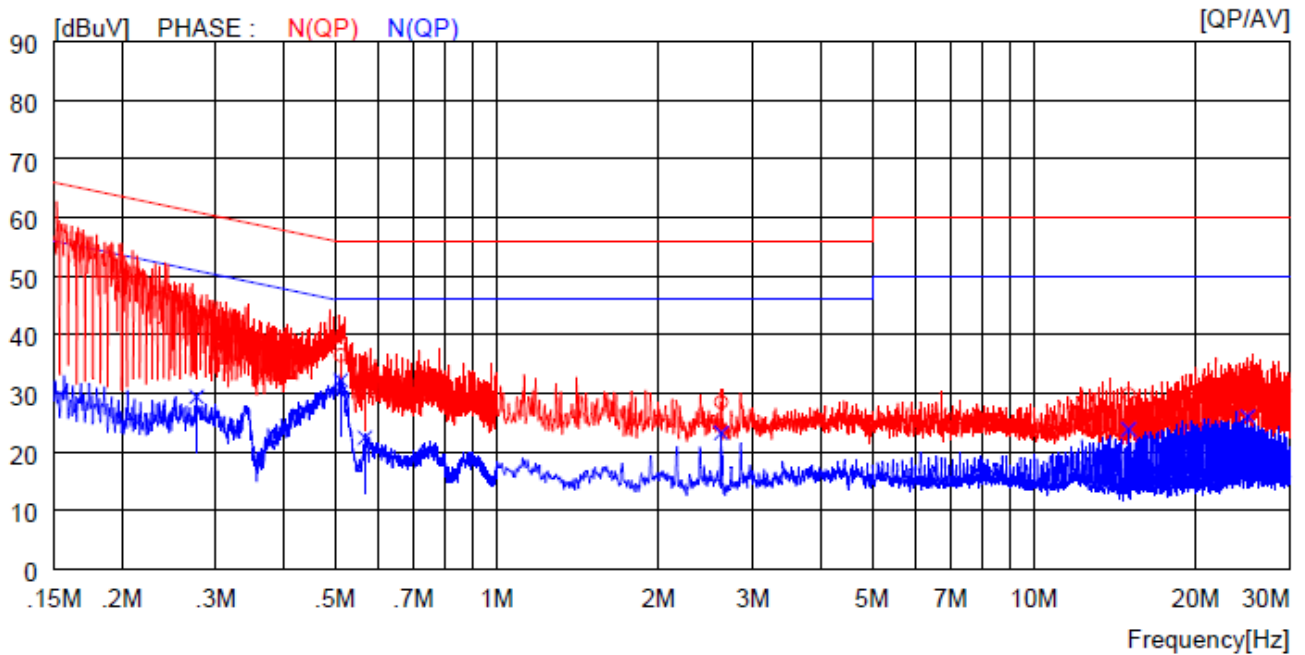
8.10 Test data for Antenna 1 [DC 12.0 V]

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.33700	32.1	----	10.0	42.1	----	59.3	----	17.2	----	H (QP)
2	0.51200	30.5	----	10.0	40.5	----	56.0	----	15.5	----	H (QP)
3	0.71500	22.5	----	10.0	32.5	----	56.0	----	23.5	----	H (QP)
4	2.84800	18.4	----	10.1	28.5	----	56.0	----	27.5	----	H (QP)
5	12.75000	18.9	----	10.3	29.2	----	60.0	----	30.8	----	H (QP)
6	20.27000	21.5	----	10.4	31.9	----	60.0	----	28.1	----	H (QP)
7	0.33700	----	18.4	10.0	----	28.4	----	49.3	----	20.9	H (CAV)
8	0.51200	----	23.5	10.0	----	33.5	----	46.0	----	12.5	H (CAV)
9	0.71500	----	12.2	10.0	----	22.2	----	46.0	----	23.8	H (CAV)
10	2.84800	----	12.9	10.1	----	23.0	----	46.0	----	23.0	H (CAV)
11	12.75000	----	11.5	10.3	----	21.8	----	50.0	----	28.2	H (CAV)
12	20.27000	----	15.0	10.4	----	25.4	----	50.0	----	24.6	H (CAV)

-. Tested Line : NEUTRAL LINE



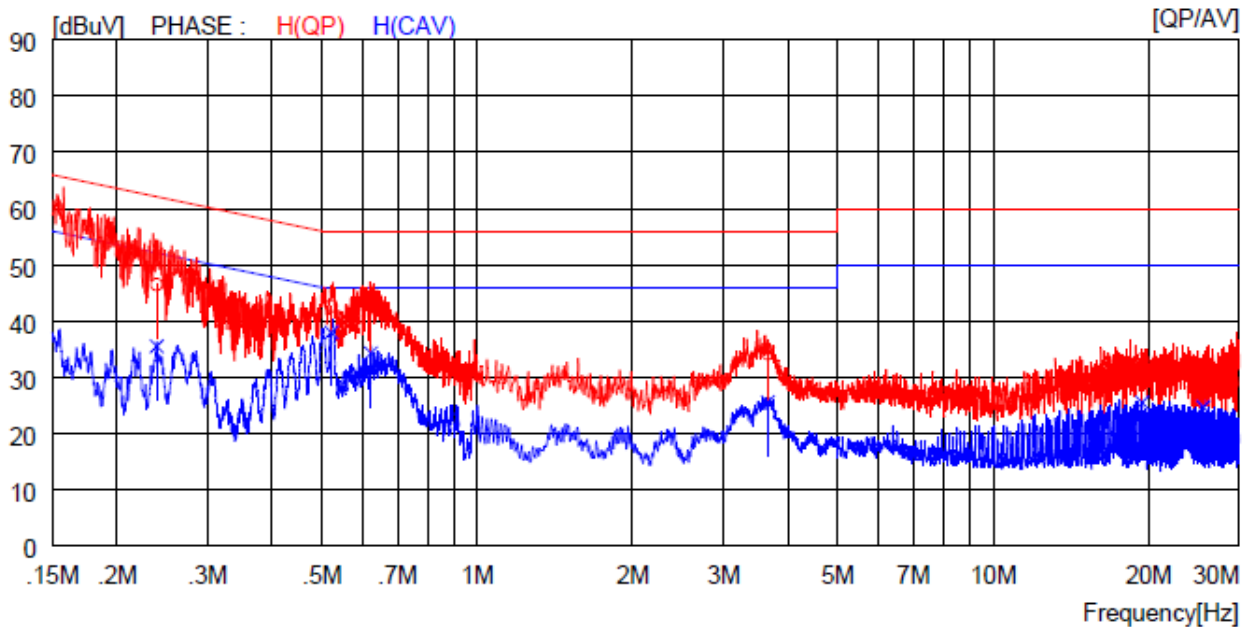
NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.27600	32.1	----	10.0	42.1	----	60.9	----	18.8	----	N (QP)
2	0.51200	26.5	----	10.0	36.5	----	56.0	----	19.5	----	N (QP)
3	0.56800	23.3	----	10.0	33.3	----	56.0	----	22.7	----	N (QP)
4	2.61600	18.4	----	10.1	28.5	----	56.0	----	27.5	----	N (QP)
5	15.01000	19.5	----	10.3	29.8	----	60.0	----	30.2	----	N (QP)
6	25.01000	22.9	----	10.5	33.4	----	60.0	----	26.6	----	N (QP)
7	0.27600	----	19.4	10.0	----	29.4	----	50.9	----	21.5	N (CAV)
8	0.51200	----	22.2	10.0	----	32.2	----	46.0	----	13.8	N (CAV)
9	0.56800	----	12.4	10.0	----	22.4	----	46.0	----	23.6	N (CAV)
10	2.61600	----	13.1	10.1	----	23.2	----	46.0	----	22.8	N (CAV)
11	15.01000	----	13.5	10.3	----	23.8	----	50.0	----	26.2	N (CAV)
12	25.01000	----	15.5	10.5	----	26.0	----	50.0	----	24.0	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

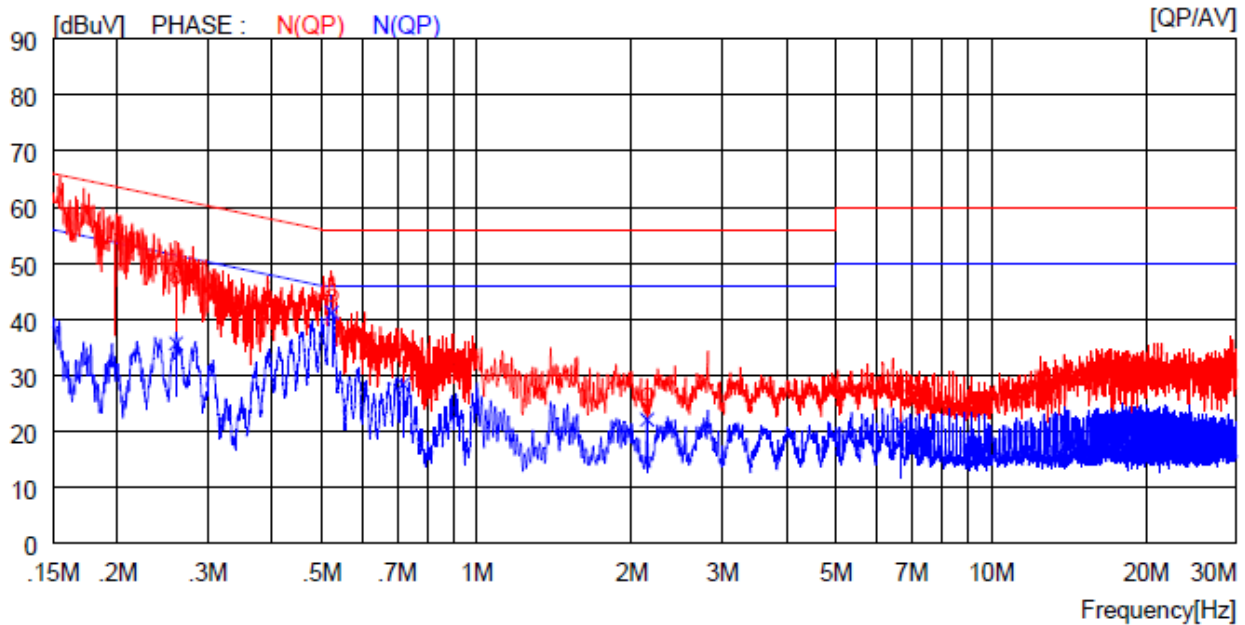
8.11 Test data for Antenna 0 + Antenna 1

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.23900	36.5	----	10.0	46.5	----	62.1	----	15.6	----	H (QP)
2	0.52100	32.7	----	10.0	42.7	----	56.0	----	13.3	----	H (QP)
3	0.62200	33.3	----	10.0	43.3	----	56.0	----	12.7	----	H (QP)
4	3.65600	24.1	----	10.1	34.2	----	56.0	----	21.8	----	H (QP)
5	19.45000	22.8	----	10.4	33.2	----	60.0	----	26.8	----	H (QP)
6	25.55000	21.0	----	10.5	31.5	----	60.0	----	28.5	----	H (QP)
7	0.23900	----	25.5	10.0	----	35.5	----	52.1	----	16.6	H (CAV)
8	0.52100	----	28.0	10.0	----	38.0	----	46.0	----	8.0	H (CAV)
9	0.62200	----	24.3	10.0	----	34.3	----	46.0	----	11.7	H (CAV)
10	3.65600	----	15.5	10.1	----	25.6	----	46.0	----	20.4	H (CAV)
11	19.45000	----	15.1	10.4	----	25.5	----	50.0	----	24.5	H (CAV)
12	25.55000	----	14.2	10.5	----	24.7	----	50.0	----	25.3	H (CAV)

- Test Line : NEUTRAL LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.26000	37.5	----	10.0	47.5	----	61.4	----	13.9	----	N (QP)
2	0.52300	34.3	----	10.0	44.3	----	56.0	----	11.7	----	N (QP)
3	0.71800	23.4	----	10.0	33.4	----	56.0	----	22.6	----	N (QP)
4	2.14400	16.5	----	10.1	26.6	----	56.0	----	29.4	----	N (QP)
5	6.69500	17.9	----	10.2	28.1	----	60.0	----	31.9	----	N (QP)
6	18.82000	19.5	----	10.4	29.9	----	60.0	----	30.1	----	N (QP)
7	0.26000	----	25.7	10.0	----	35.7	----	51.4	----	15.7	N (CAV)
8	0.52300	----	31.2	10.0	----	41.2	----	46.0	----	4.8	N (CAV)
9	0.71800	----	18.4	10.0	----	28.4	----	46.0	----	17.6	N (CAV)
10	2.14400	----	12.0	10.1	----	22.1	----	46.0	----	23.9	N (CAV)
11	6.69500	----	11.1	10.2	----	21.3	----	50.0	----	28.7	N (CAV)
12	18.82000	----	12.5	10.4	----	22.9	----	50.0	----	27.1	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

9. LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
ESR	R/S	Spectrum analyzer	101470	Oct. 18, 2021 (1Y)
ESCI	R/S	Test Receiver	101012	Oct. 20, 2021 (1Y)
310N	Sonoma Instrument	Pre-Amplifier	392756	Oct. 14, 2021 (1Y)
HLP-2008	TDK	Hybrid Antenna	131316	Feb. 27, 2020 (2Y)
CO3000	Innco Systems GmbH	Controller	N/A	N/A
DT3000-3t	Innco System	Turn Table	DT3000/093	N/A
NSLK8128	Schwarzbeck	V - LISN (4*32/50A)	8128216	Mar. 16, 2021 (1Y)
ESH3-Z2	R/S	Pulse Limiter	100655	Mar. 15, 2021 (1Y)
MA-4000XPET	Innco System	Antenna Master	MA4000/509	N/A
FMZB 1513	Schwarzbeck	Loop Antenna	1513-235	Mar. 24, 2020 (2Y)