FCC Radio Test Report

FCC ID: KA2AP1530A1

This report concerns (check one): ☐**Original Grant** ☐**Class I Change** ☒**Class II Change**

Project No.	:	1708C079C
Equipment	:	DAP-1530: AC750 Plus WiFi Range Extender DAP-1610: AC1200 WiFi Range Extender
Test Model	:	DAP-1530
Series Model	:	DAP-1610
Applicant	:	D-LINK Corporation
Address	:	17595 Mt. Herrmann, Fountain Valley, California, United States 92708
Date of Receipt	:	Feb. 24, 2019
Date of Test	:	Feb. 25, 2019 ~ May 21, 2020
Issued Date	:	May 29, 2020
Tested by	:	BTL Inc.

Testing Engineer : Nick Chen
(Nick Chen)

Technical Manager : Steven Lu
(Steven Lu)

Authorized Signatory : Ethan Ma
(Ethan Ma)

BTL INC.

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

Certificate #5123.02

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, A2LA, or any agency of the U.S. Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.
Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

Table of Contents

Table of Contents

REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue. This is a supplementary report which referencing test data are provided from test report (BTL-FCCP-3-1708C079). 1. Updated the factory information. 2. A power board was added, and the model name is MT-SPS1206O-A. The radiated emissions below 1GHz and conducted emission have been re-evaluated and recorded in the test report, the rest are kept the same.	Jul. 25, 2019
R01	Added the 240V of the AC power line conducted emissions data.	May 27, 2020
R02	In this report only record the adiated emissions below 1GHz and conducted emission test data, the original test data please refer to the previous report.	May 29, 2020

1. GENERAL SUMMARY

Equipment	:	DAP-1530: AC750 Plus WiFi Range Extender DAP-1610: AC1200 WiFi Range Extender
Brand Name	:	D-Link
Test Model	:	DAP-1530
Series Model	:	DAP-1610
Applicant	:	D-LINK Corporation
Manufacturer	:	D-LINK Corporation
Address	:	17595 Mt. Herrmann, Fountain Valley, California, United States 92708
Factory	:	Huizhou MTN WEIYE Technology Development Co., Ltd.
Address	:	No.2 Huitai Road, Huinan High-tech Industrial Park, Huiao Avenue, Huizhou City, Guangdong Province, China.
Date of Test	:	Aug. 04, 2017 ~ Sep. 13, 2017 Jan. 04, 2018 ~ Jan. 26, 2018 Feb. 25, 2019 ~ Mar. 13, 2019
Test Sample	:	Engineering Sample No.: D171209890, D190201653, D190201654
Standard(s)	:	FCC Part15, Subpart C:(15.247) ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-3-1708C079C) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

Test results included in this report are only for the WLAN 2.4GHz part.

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C				
Standard(s) Section	**Test Item**	**Test Result**	**Judgment**	**Remark**
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	------
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C	PASS	------

Note:

(1)" N/A" denotes test is not applicable in this test report.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.
BTL's Test Firm Registration Number for FCC: 357015
BTL's Designation Number for FCC: CN1240

2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)
The BTL measurement uncertainty as below table:

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 KHz ~ 30MHz	2.32

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	CISPR	9KHz~30MHz	V	3.79
		9KHz~30MHz	H	3.57
		30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	H	3.78
		200MHz ~ 1,000MHz	V	4.10
		200MHz ~ 1,000MHz	H	4.06

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

<table>
<tr><td>Equipment</td><td colspan="2">DAP-1530: AC750 Plus WiFi Range Extender
DAP-1610: AC1200 WiFi Range Extender</td></tr>
<tr><td>Brand Name</td><td colspan="2">D-Link</td></tr>
<tr><td>Test Model</td><td colspan="2">DAP-1530</td></tr>
<tr><td>Series Model</td><td colspan="2">DAP-1610</td></tr>
<tr><td>Model Difference</td><td colspan="2">Only different as below:
<table>
<tr><td>Model Name</td><td>Product name</td></tr>
<tr><td>DAP-1530</td><td>AC750 Plus WiFi Range Extender</td></tr>
<tr><td>DAP-1610</td><td>AC1200 WiFi Range Extender</td></tr>
</table></td></tr>
<tr><td rowspan="4">Product Description</td><td>Operation Frequency</td><td>2412~2462 MHz</td></tr>
<tr><td>Modulation Technology</td><td>802.11b:DSSS
802.11g:OFDM
802.11n:OFDM</td></tr>
<tr><td>Bit Rate of Transmitter</td><td>802.11b: 11/5.5/2/1 Mbps
802.11g: 54/48/36/24/18/12/9/6 Mbps
802.11n up to 300 Mbps</td></tr>
<tr><td>Output Power (Max.)</td><td>802.11b: 17.01dBm
802.11g: 25.33dBm
802.11n(20MHz): 27.88dBm
802.11n(40MHz): 28.37dBm</td></tr>
<tr><td>Power Source</td><td colspan="2">AC Mains</td></tr>
<tr><td>Power Rating</td><td colspan="2">I/P: AC 100-240V 0.3A Max O/P: DC 12V 0.6A</td></tr>
</table>

Note:

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

2. Channel List:

<table>
<tr><td colspan="8">CH01 - CH11 for 802.11b, 802.11g, 802.11n(20MHz)
CH03 - CH09 for 802.11n(40MHz)</td></tr>
<tr><td>Channel</td><td>Frequency (MHz)</td><td>Channel</td><td>Frequency (MHz)</td><td>Channel</td><td>Frequency (MHz)</td><td>Channel</td><td>Frequency (MHz)</td></tr>
<tr><td>01</td><td>2412</td><td>04</td><td>2427</td><td>07</td><td>2442</td><td>10</td><td>2457</td></tr>
<tr><td>02</td><td>2417</td><td>05</td><td>2432</td><td>08</td><td>2447</td><td>11</td><td>2462</td></tr>
<tr><td>03</td><td>2422</td><td>06</td><td>2437</td><td>09</td><td>2452</td><td></td><td></td></tr>
</table>

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Dipole	N/A	3
2	N/A	N/A	Dipole	N/A	3

Note:
The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R).

4. The worst case for 2TX as follow:

Operating Mode / TX Mode	2TX
802.11b	V (Ant. 1+ Ant. 2)
802.11g	V (Ant. 1+ Ant. 2)
802.11n(20MHz)	V (Ant. 1+ Ant. 2)
802.11n(40MHz)	V (Ant. 1+ Ant. 2)

3.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09
Mode 5	TX Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 5	TX Mode

For Radiated Below 1 GHzTest	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11

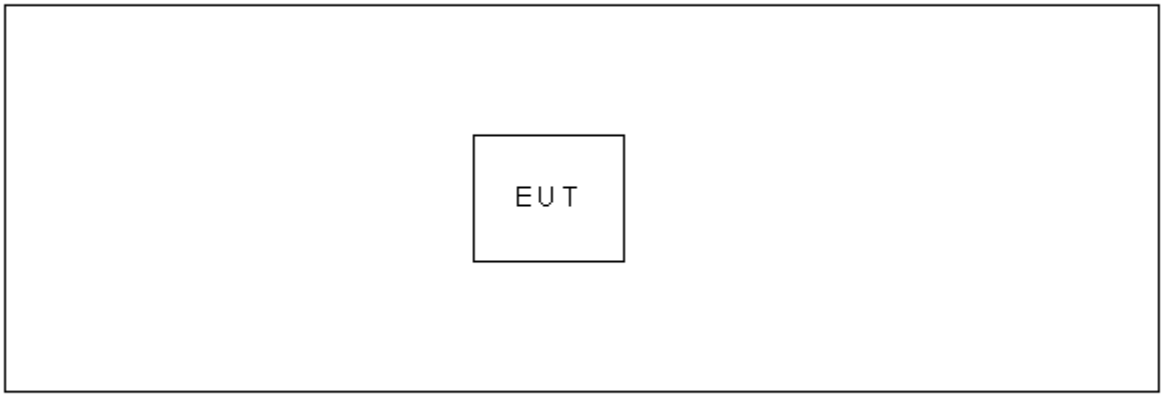
Note:
(1) The measurements are performed at the high, middle, low available channels.
(2) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.

3.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

Test software version	QATool_Dbg		
Frequency (MHz)	2412	2437	2462
802.11b	9	10	9
802.11g	11	11	11
802.11n (20MHz)	17	18	17
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	15	1E	19

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	-

4. AC POWER LINE CONDUCTED EMISSIONS TEST

4.1 LIMIT

Frequency of Emission (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56*	56 - 46*
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:
(1) The tighter limit applies at the band edges.
(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
(3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)
Margin Level = Measurement Value – Limit Value

The following table is the setting of the receiver

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

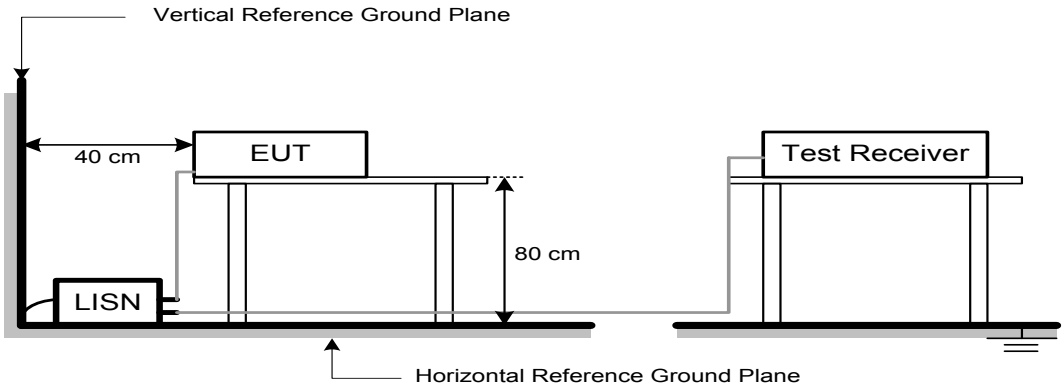
4.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.3 DEVIATION FROM TEST STANDARD

No deviation

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

The EUT was placed on the test table and programmed in normal function.

4.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 53% Test Voltage: AC 120V/60Hz

4.7 TEST RESULTS

Please refer to the APPENDIX A.

5. RADIATED EMISSIONS TEST

5.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000 MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

(4) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for Peak, 1 MHz / 1/T for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector

5.2 TEST PROCEDURE

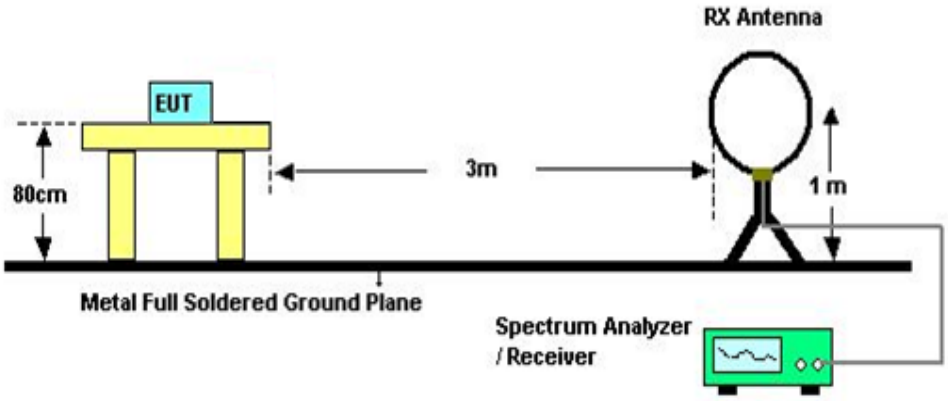
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1 GHz)
c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn‘t perform. (below 1 GHz)
h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn‘t perform. (above 1 GHz)
i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

5.3 DEVIATION FROM TEST STANDARD

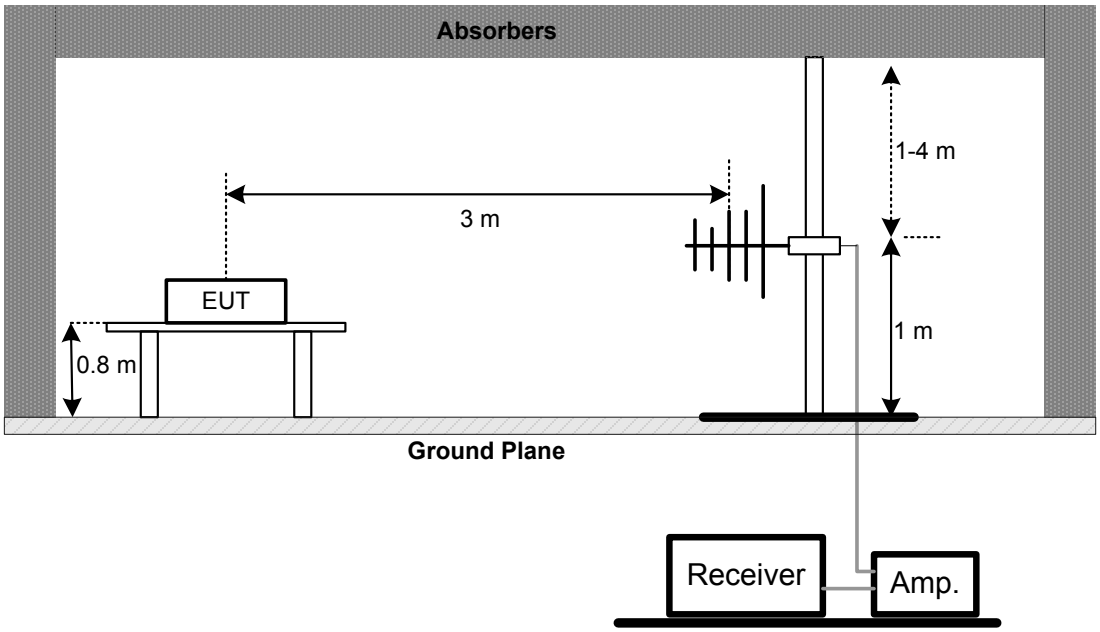
No deviation

5.4 TEST SETUP

9 kHz-30 MHz



30 MHz to 1 GHz



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 61% Test Voltage: AC 120V/60Hz

5.7 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B

Remark:

(1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
(2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
(3) Limit line = specific limits (dBuV) + distance extrapolation factor.

5.8TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

6. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Feb. 28, 2021
2	LISN	EMCO	3816/2	52765	Mar. 01, 2021
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Feb. 28, 2021
4	50Ω Terminator	SHX	TF5-3	15041305	Mar. 01, 2021
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 10, 2021

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EM	EM-6876-1	230	Apr. 16, 2021
2	Cable	N/A	RG 213/U(9kHz~1GHz)	N/A	May 31, 2020
3	EMI Test Receiver	R&S	ESCI	100895	Feb. 28, 2021
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2021
2	Amplifier	HP	8447D	2944A08742	Mar. 01, 2021
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
4	Cable	emci	LMR-400(30MHz-1GHz)(8m+5m)	N/A	May 25, 2020
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Remark: ”N/A” denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

7. EUT TEST PHOTO

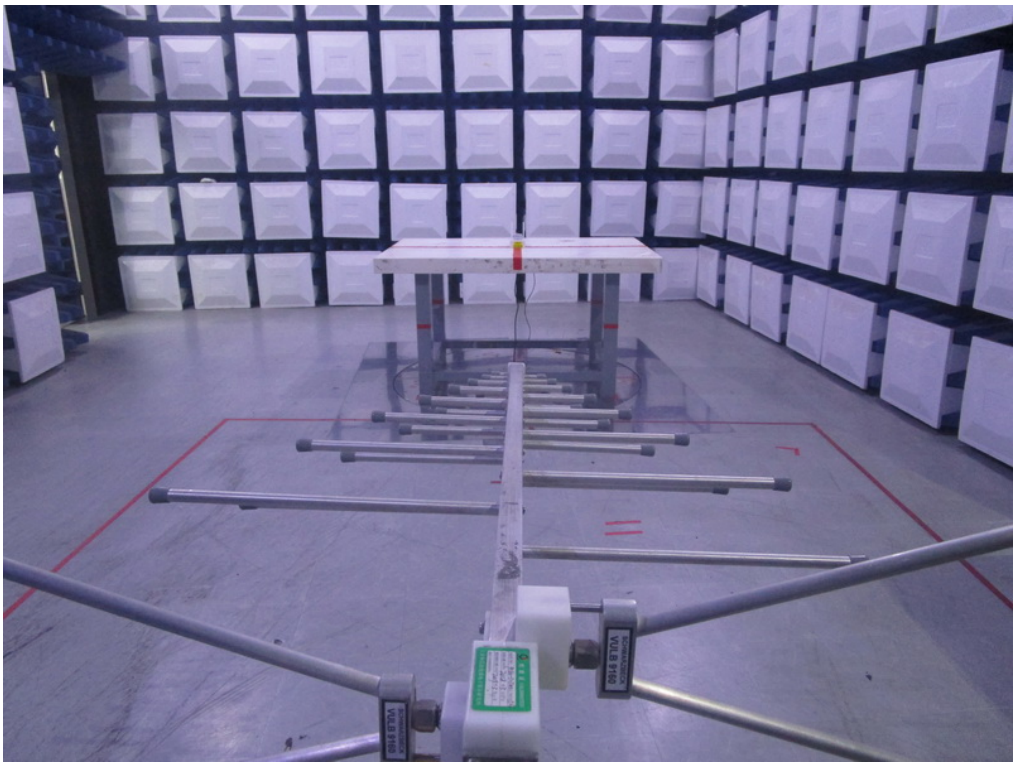
Conducted Measurement Photos

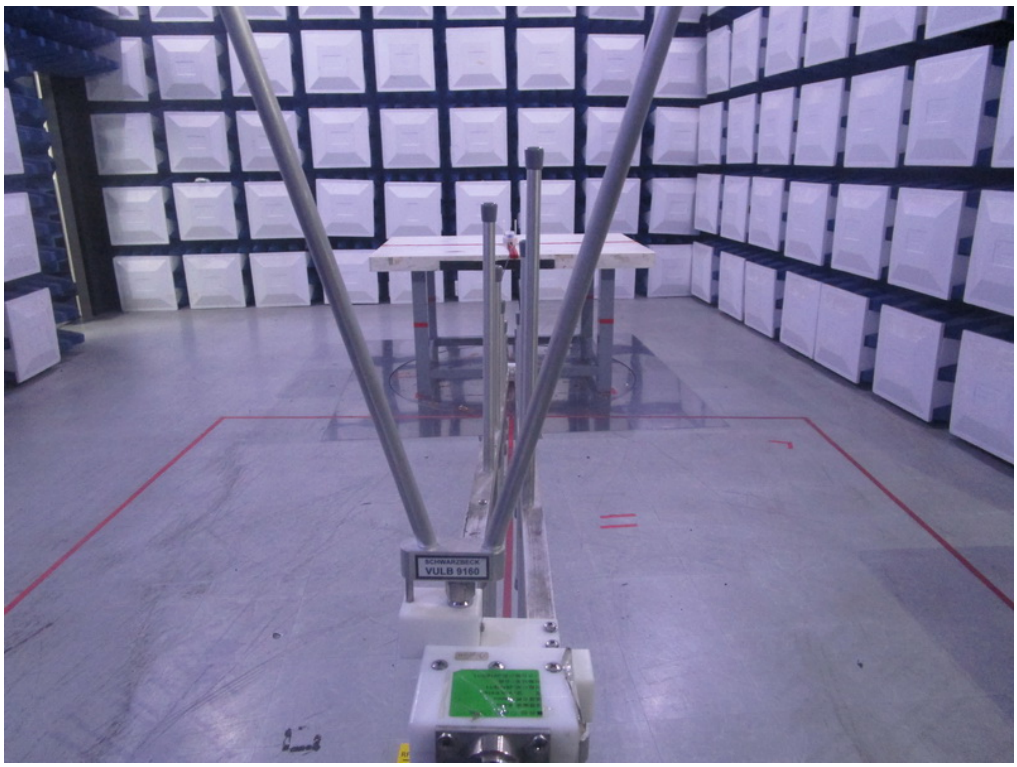
Radiated Measurement Photos

9KHz to 30MHz

Radiated Measurement Photos

30MHz to 1000MHz

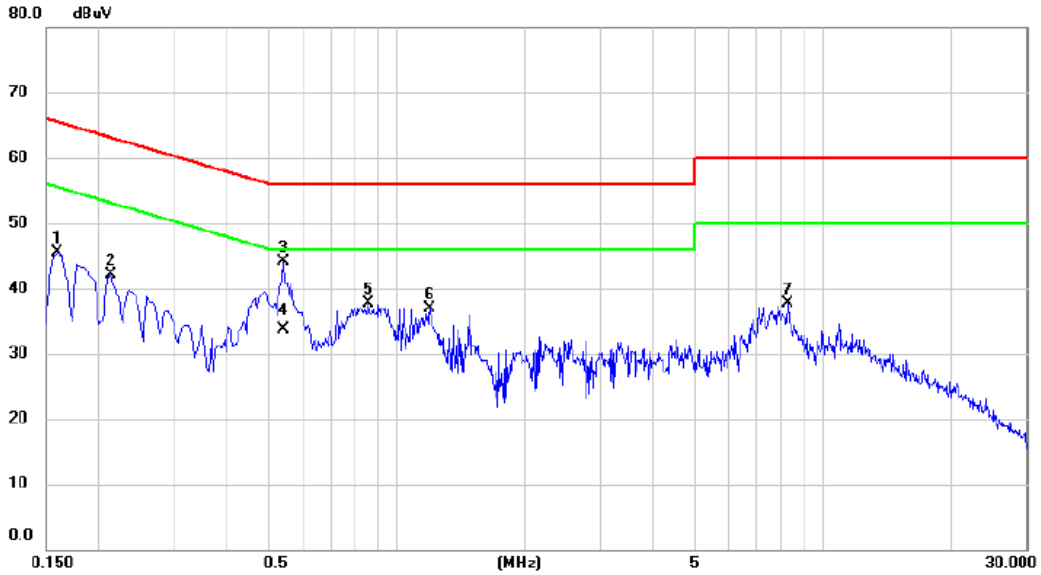




APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode:	TX Mode_power borad: MT-SPS1206O-A
Test Voltage:	AC 120V/60Hz

Line

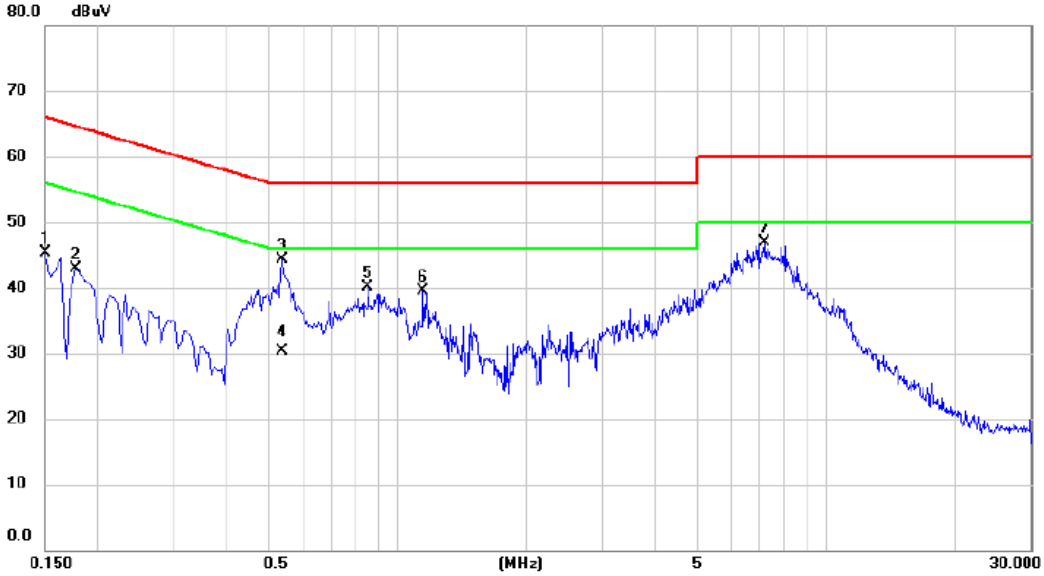


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1590	35.76	9.82	45.58	65.52	-19.94	peak	
2		0.2130	32.38	9.82	42.20	63.09	-20.89	peak	
3	*	0.5415	34.31	9.81	44.12	56.00	-11.88	peak	
4		0.5415	23.80	9.81	33.61	46.00	-12.39	AVG	
5		0.8565	27.73	9.91	37.64	56.00	-18.36	peak	
6		1.1940	27.00	9.93	36.93	56.00	-19.07	peak	
7		8.2680	27.23	10.40	37.63	60.00	-22.37	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode :	TX Mode_power borad: MT-SPS1206O-A
Test Voltage:	AC 120V/60Hz

Neutral

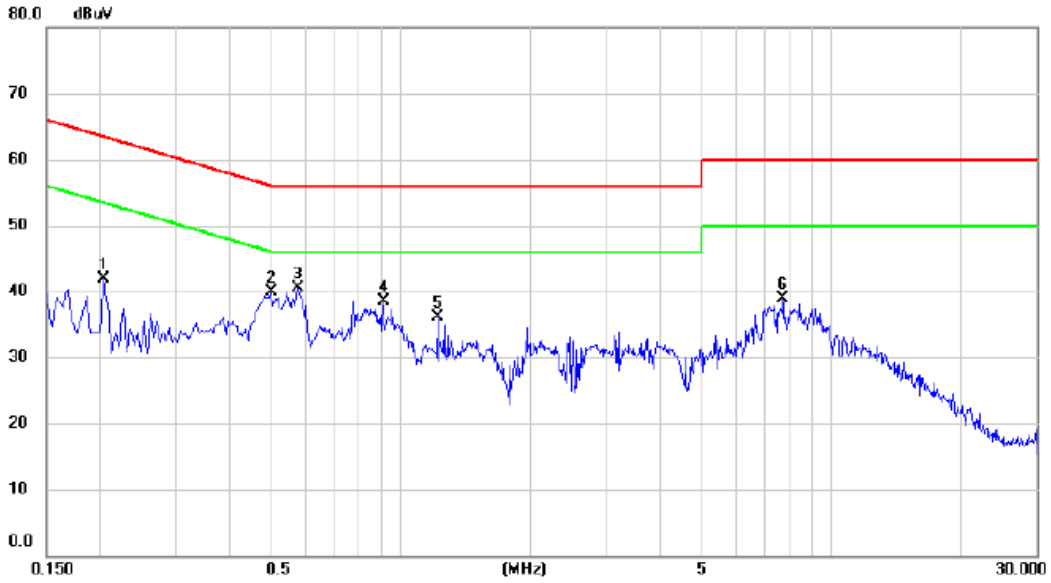


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	35.49	9.91	45.40	66.00	-20.60	peak	
2		0.1770	33.02	9.92	42.94	64.63	-21.69	peak	
3	*	0.5370	34.41	9.95	44.36	56.00	-11.64	peak	
4		0.5370	20.30	9.95	30.25	46.00	-15.75	AVG	
5		0.8520	30.07	10.09	40.16	56.00	-15.84	peak	
6		1.1445	29.40	10.13	39.53	56.00	-16.47	peak	
7		7.1790	36.36	10.59	46.95	60.00	-13.05	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX Mode_power borad: MT-SPS1206O-A
Test Voltage:	AC 240V/60Hz

Line

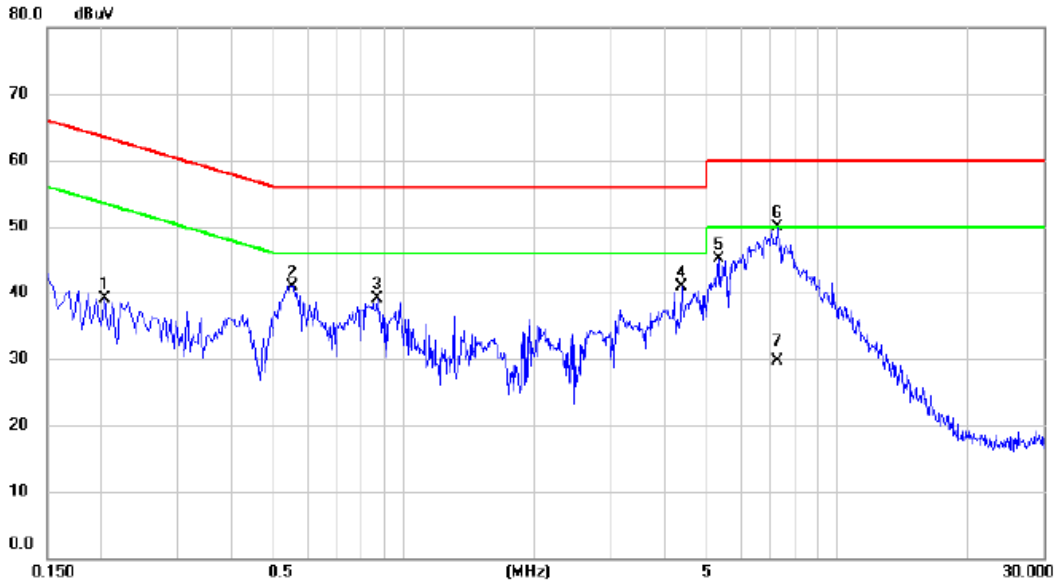


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2040	31.91	9.91	41.82	63.45	-21.63	peak	
2		0.5010	29.91	9.95	39.86	56.00	-16.14	peak	
3	*	0.5775	30.56	9.96	40.52	56.00	-15.48	peak	
4		0.9105	28.56	10.00	38.56	56.00	-17.44	peak	
5		1.2164	25.98	10.03	36.01	56.00	-19.99	peak	
6		7.7055	28.46	10.53	38.99	60.00	-21.01	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode :	TX Mode_power borad: MT-SPS1206O-A
Test Voltage:	AC 240V/60Hz

Neutral



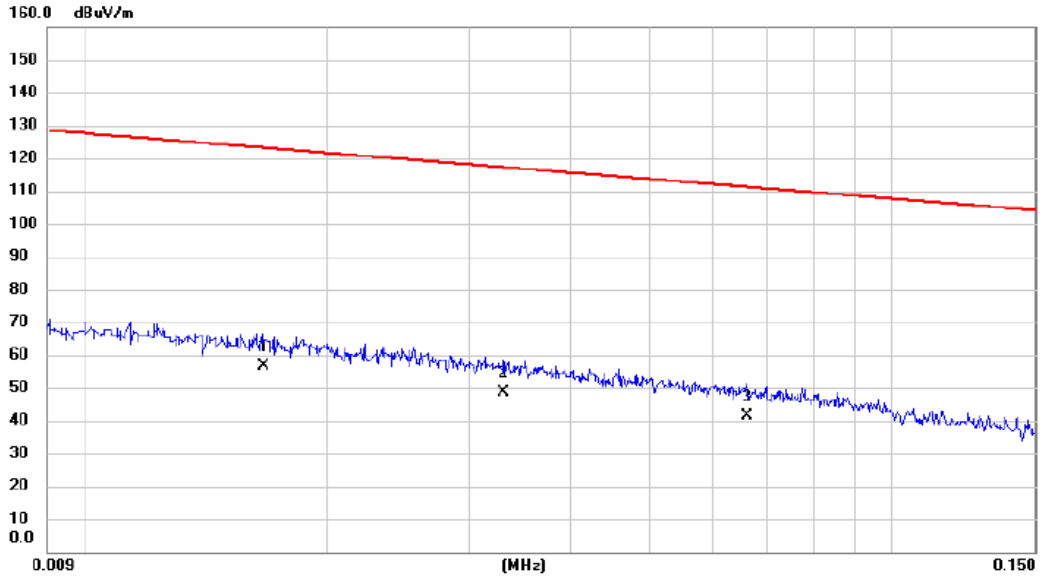
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2040	29.05	10.01	39.06	63.45	-24.39	peak	
2		0.5505	30.77	10.17	40.94	56.00	-15.06	peak	
3		0.8655	28.77	10.26	39.03	56.00	-16.97	peak	
4		4.3755	30.20	10.63	40.83	56.00	-15.17	peak	
5		5.3295	34.49	10.69	45.18	60.00	-14.82	peak	
6	*	7.2600	39.10	10.84	49.94	60.00	-10.06	peak	
7		7.2600	18.90	10.84	29.74	50.00	-20.26	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX B - RADIATED EMISSION – 9 KHZ TO 30 MHZ

Test Mode:	TX B MODE CHANNEL 01_power borad: MT-SPS1206O-A

Ant 0°

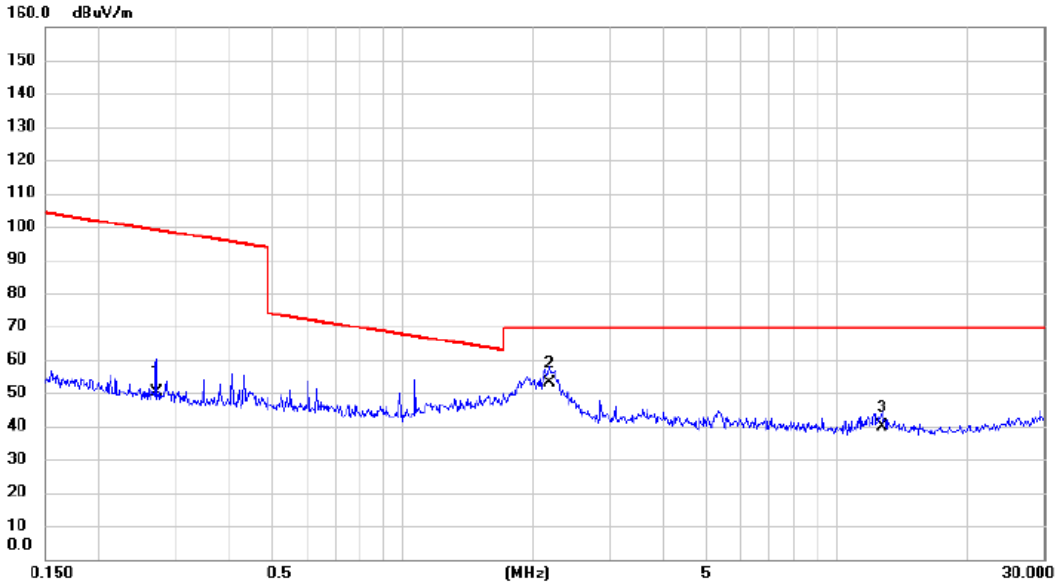


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0167	36.30	20.48	56.78	123.15	-66.37	AVG	
2		0.0330	28.60	19.81	48.41	117.23	-68.82	AVG	
3		0.0660	22.20	19.21	41.41	111.21	-69.80	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX B MODE CHANNEL 01_power borad: MT-SPS1206O-A

Ant 0°

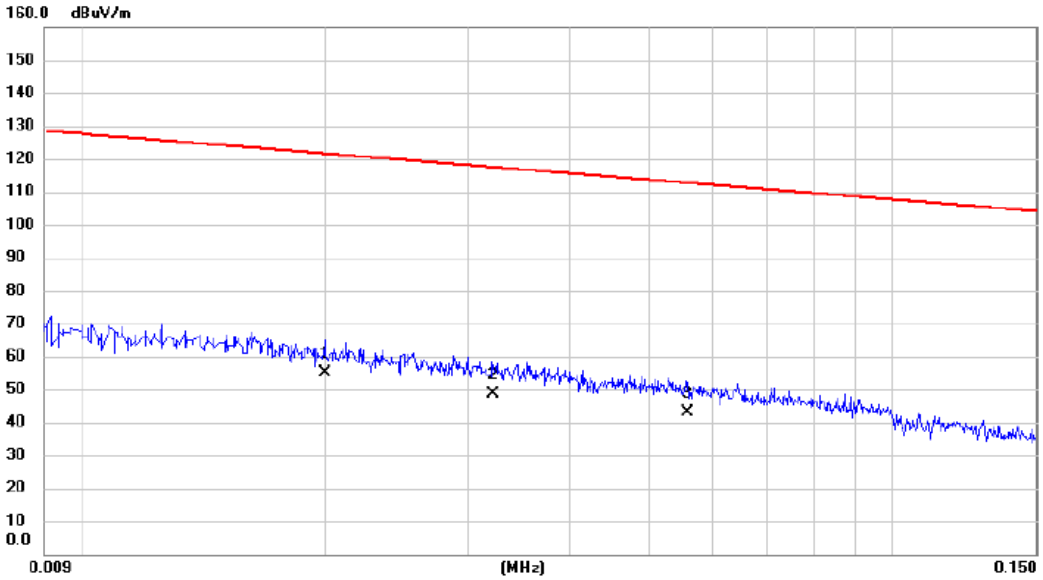


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2701	33.20	17.05	50.25	98.97	-48.72	AVG	
2	*	2.1724	35.80	17.02	52.82	69.54	-16.72	QP	
3		12.6825	25.20	14.56	39.76	69.54	-29.78	QP	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX B MODE CHANNEL 01_power borad: MT-SPS1206O-A

Ant 90°

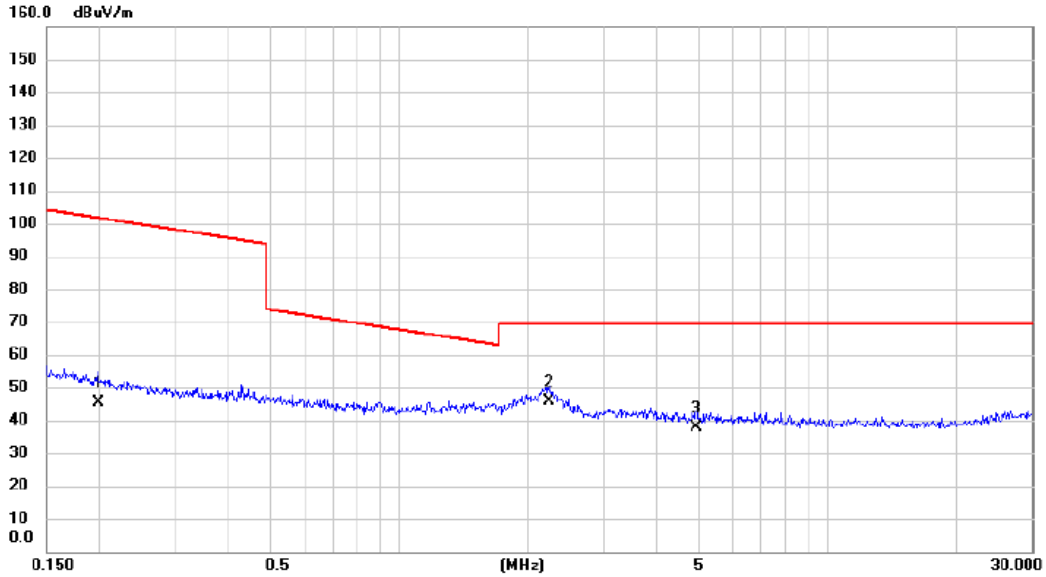


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0200	34.80	20.02	54.82	121.58	-66.76	AVG	
2		0.0322	28.70	19.83	48.53	117.45	-68.92	AVG	
3		0.0558	23.50	19.41	42.91	112.67	-69.76	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX B MODE CHANNEL 01_power borad: MT-SPS1206O-A

Ant 90°



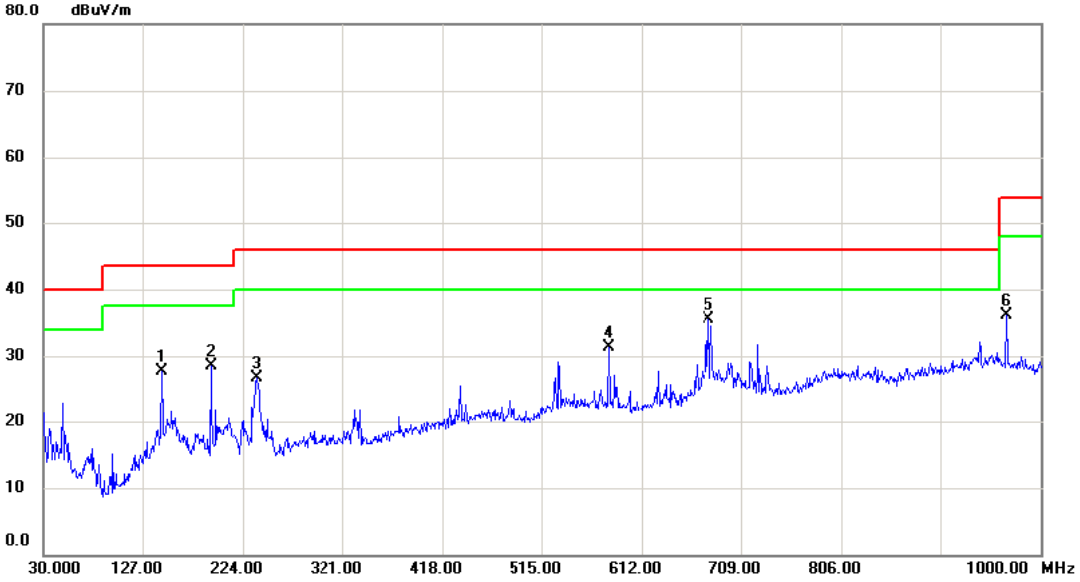
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1976	28.10	17.16	45.26	101.69	-56.43	AVG	
2	*	2.2308	28.80	16.98	45.78	69.54	-23.76	QP	
3		4.9257	22.50	15.20	37.70	69.54	-31.84	QP	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX C - RADIATED EMISSION – 30 MHZ TO 1000 MHZ

Test Mode:	TX B MODE CHANNEL 01_power borad: MT-SPS1206O-A

Vertical

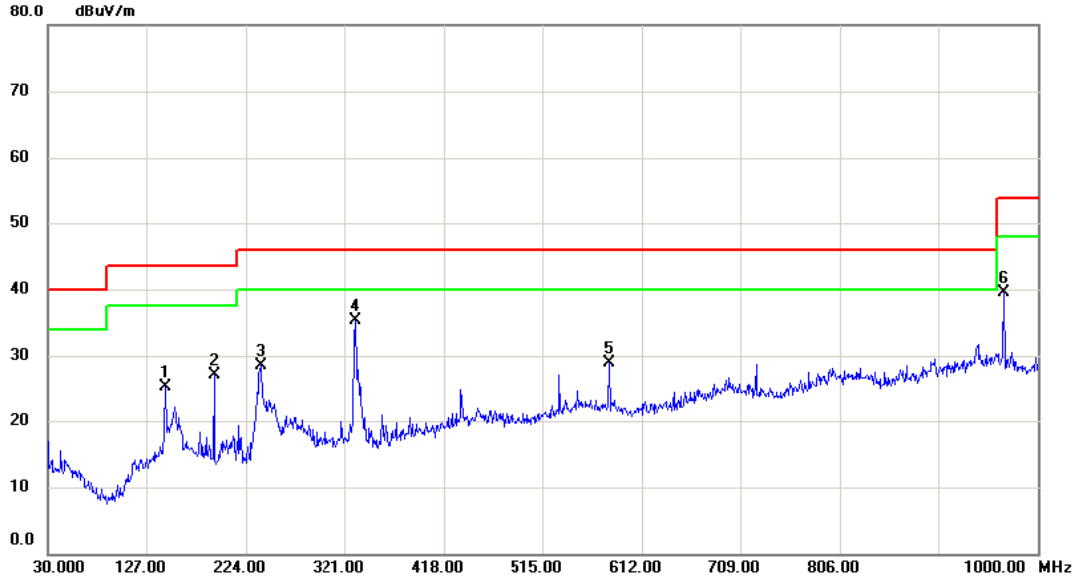


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		145.430	39.45	-11.77	27.68	43.50	-15.82	peak	
2		192.960	42.99	-14.58	28.41	43.50	-15.09	peak	
3		237.580	41.54	-14.75	26.79	46.00	-19.21	peak	
4		579.990	37.18	-5.96	31.22	46.00	-14.78	peak	
5	*	676.990	39.42	-3.86	35.56	46.00	-10.44	peak	
6		967.020	35.03	1.01	36.04	54.00	-17.96	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX B MODE CHANNEL 01_power borad: MT-SPS1206O-A

Horizontal

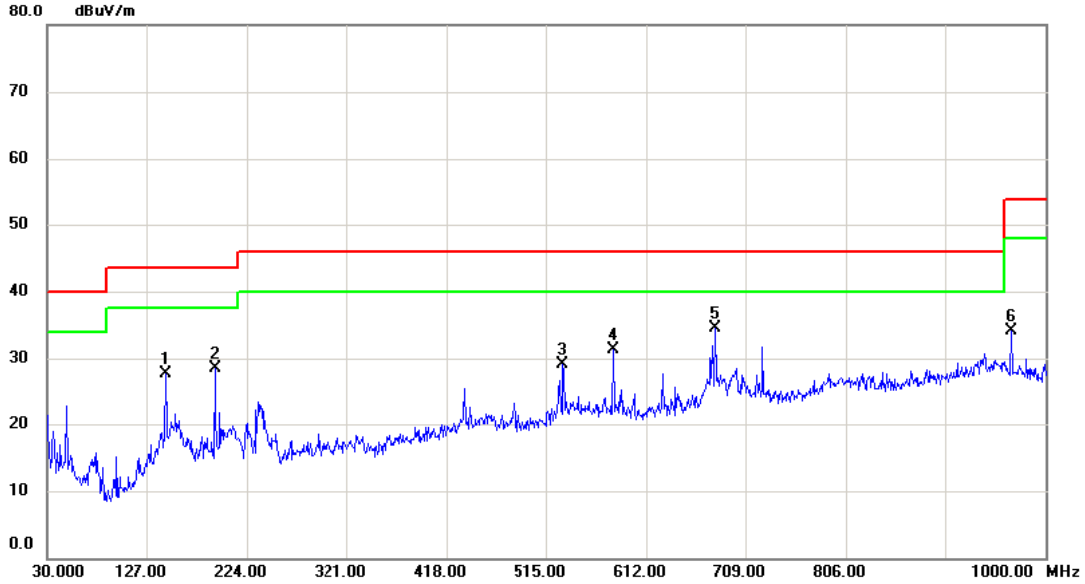


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		145.430	37.13	-11.77	25.36	43.50	-18.14	peak	
2		192.960	41.61	-14.58	27.03	43.50	-16.47	peak	
3		238.550	43.13	-14.71	28.42	46.00	-17.58	peak	
4	*	331.670	46.08	-10.82	35.26	46.00	-10.74	peak	
5		579.990	34.90	-5.96	28.94	46.00	-17.06	peak	
6		967.020	38.41	1.01	39.42	54.00	-14.58	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX B MODE CHANNEL 06_power borad: MT-SPS1206O-A

Vertical

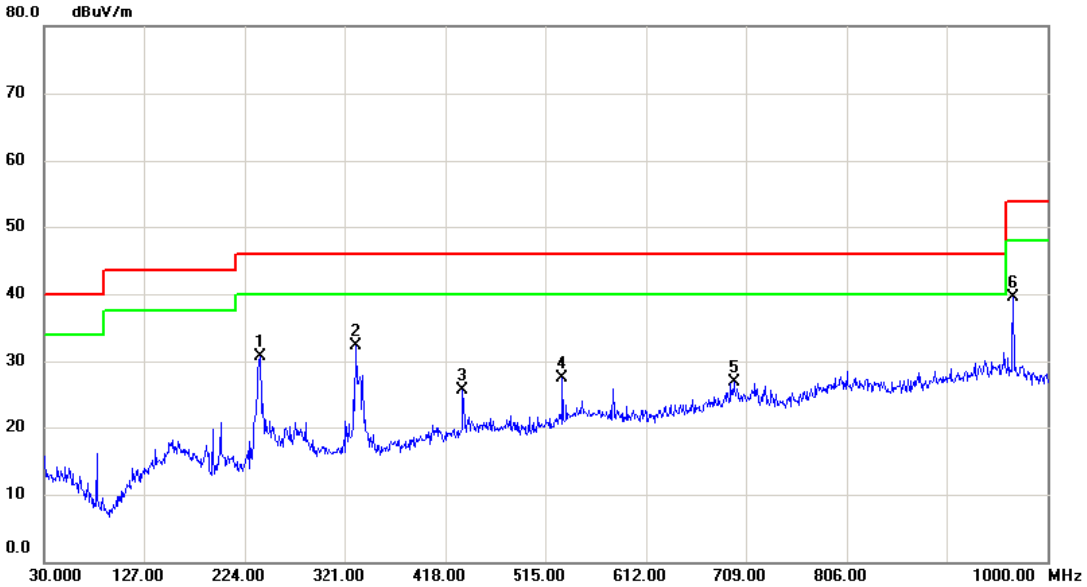


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		145.430	39.45	-11.77	27.68	43.50	-15.82	peak	
2		192.960	42.99	-14.58	28.41	43.50	-15.09	peak	
3		531.490	35.65	-6.60	29.05	46.00	-16.95	peak	
4		579.990	37.18	-5.96	31.22	46.00	-14.78	peak	
5	*	679.900	38.16	-3.71	34.45	46.00	-11.55	peak	
6		967.020	33.00	1.01	34.01	54.00	-19.99	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX B MODE CHANNEL 06_power borad: MT-SPS1206O-A

Horizontal

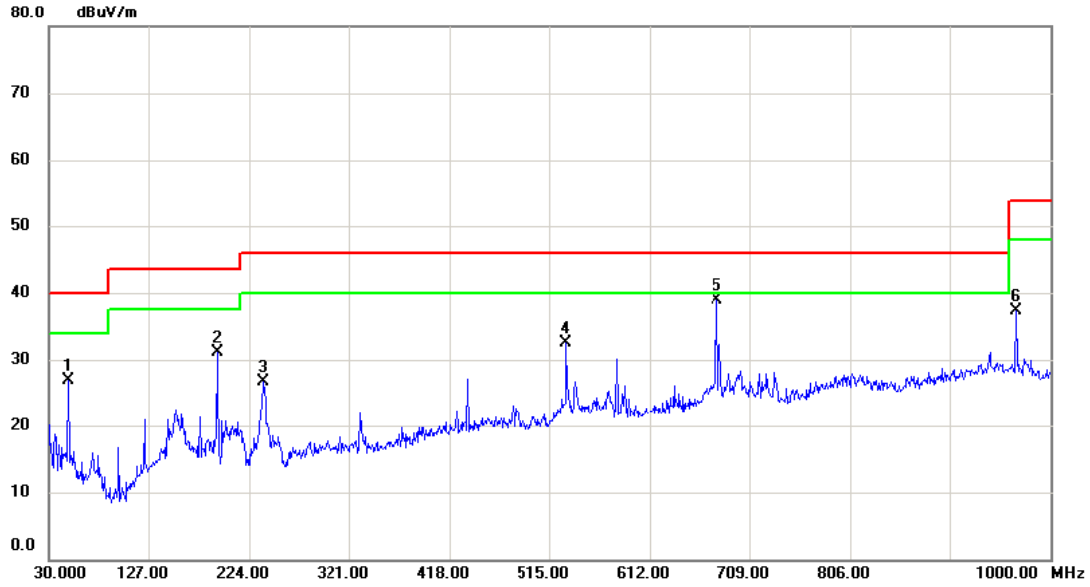


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		238.550	45.36	-14.71	30.65	46.00	-15.35	peak	
2	*	331.670	43.05	-10.82	32.23	46.00	-13.77	peak	
3		434.490	33.71	-8.01	25.70	46.00	-20.30	peak	
4		531.490	34.10	-6.60	27.50	46.00	-18.50	peak	
5		697.360	29.79	-2.88	26.91	46.00	-19.09	peak	
6		967.020	38.48	1.01	39.49	54.00	-14.51	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX B MODE CHANNEL 11_power borad: MT-SPS1206O-A

Vertical

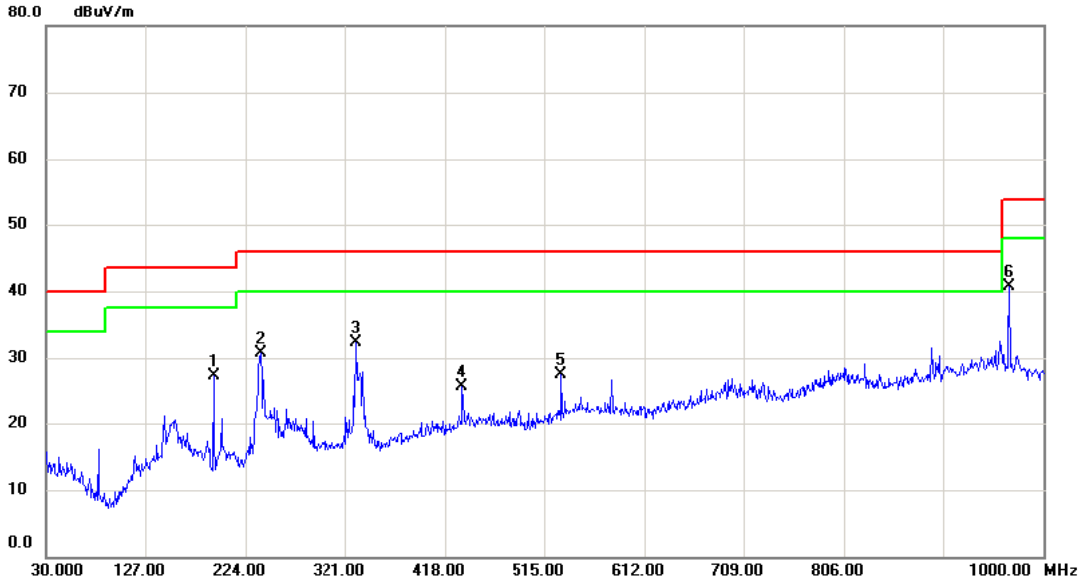


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		48.430	41.68	-14.82	26.86	40.00	-13.14	peak	
2		192.960	45.62	-14.58	31.04	43.50	-12.46	peak	
3		237.580	41.39	-14.75	26.64	46.00	-19.36	peak	
4		531.490	39.18	-6.60	32.58	46.00	-13.42	peak	
5	*	676.990	42.82	-3.86	38.96	46.00	-7.04	peak	
6		967.020	36.35	1.01	37.36	54.00	-16.64	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX B MODE CHANNEL 11_power borad: MT-SPS1206O-A

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		192.960	41.85	-14.58	27.27	43.50	-16.23	peak	
2		238.550	45.36	-14.71	30.65	46.00	-15.35	peak	
3		331.670	43.05	-10.82	32.23	46.00	-13.77	peak	
4		434.490	33.71	-8.01	25.70	46.00	-20.30	peak	
5		531.490	34.10	-6.60	27.50	46.00	-18.50	peak	
6	*	967.020	39.60	1.01	40.61	54.00	-13.39	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

End of Test Report