



EMC TEST REPORT

Product Name: DTEN D7X

Model Name: DB71455, DB71455-S1

Issued For : DTEN Inc

97 E Brokaw Road suite 180 San Jose CA 95112

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Chen Hsong Industrial
Park, No.177 Renmin West Road, Jinsha Community,
Kengzi Street, Pingshan New District, Shenzhen, China

Report Number: LGT22G011EM03

Sample Received Date: July 25, 2022

Date of Tested: July 25, 2022 – August 23, 2022

Date of Issue: August 30, 2022

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TEST REPORT CERTIFICATION

Applicant DTEN Inc.
Address 97 E Brokaw Road suite 180 San Jose CA 95112
Manufacture DTEN Inc
Address 97 E Brokaw Road suite 180 San Jose CA 95112
Product Name DTEN D7X
Trade Mark DTEN
Model Name DB71455, DB71455-S1
Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR Part 15 Subpart B ANSI C63.4-2014	PASS

Prepared by:

Zane Shan
Engineer

Approved by:

Vita Li
Technical Director





Table of Contents

1. TEST SUMMARY	5
1.1 TEST LABORATORY	6
1.2 MEASUREMENT UNCERTAINTY	6
2. GENERAL INFORMATION	7
2.1 GENERAL DESCRIPTION OF THE EUT	7
2.2 DESCRIPTION OF THE TEST MODES	8
2.3 DESCRIPTION OF THE SUPPORT UNITS	8
2.5 MEASUREMENT INSTRUMENTS LIST	9
3. EMC EMISSION TEST	10
3.1 CONDUCTED EMISSION MEASUREMENT	10
3.2 RADIATED EMISSION MEASUREMENT	16
APPENDIX 1 - TEST SETUP	30



Revision History

Rev.	Issue Date	Revisions
00	August 30, 2022	Initial Issue



1. TEST SUMMARY

EMC Emission				
Standard	Test Item	Limit	Judgement	Remark
FCC 47 CFR Part 15 Subpart B ANSI C63.4-2014	Conducted Emissions	Class B	PASS	
	Radiated Emissions Below 1GHz	Class B	PASS	
	Radiated Emissions Above 1GHz	Class B	PASS	Note 1 Note 2

Note:

- 1 "N/A" denotes test is not applicable in this Test Report
- 2 If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.
- 3 For model DB71455 and DB71455-S1, the TP board have two types of A and B. DB71455-S1 with type A and DB71455 with type B were selected as the typical models for all necessary tests performed. For the details of type A&B, please refer to the EUT photos.

**1.1 TEST LABORATORY**

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New District, Shenzhen, China
A2LA Number	6227.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

Test Item	Measurement Frequency Range	Uncertainty
Conducted Emissions	0.009MHz ~ 0.15MHz	3.18
Conducted Emissions	0.15MHz ~ 30MHz	2.70
Radiated Emissions	9KHz ~ 30MHz	2.50
Radiated Emissions	30MHz ~ 1000MHz	4.40
Radiated Emissions	1GHz ~ 6 GHz	5.10
Radiated Emissions	6GHz ~ 18GHz	5.49

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	DTEN D7X		
Model Name	DB71455		
Series Model	DB71455-S1		
Model Difference	DB71455-S1 is based on DB71455 to add a camera module on the left and right sides, the other parts are identical.		
Rated Input	100-240V~ 50/60Hz 3.0A		
Power Supply	Power Adapter	Input	N/A
		Output	N/A
	Battery	N/A	
Test voltage	AC 120V/60Hz		
Hardware Version Number	OPSC17_V12		
Software Version Number	3.0.10		

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2.2 DESCRIPTION OF THE TEST MODES

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

Test Mode	Description
Mode 1	HDMI OUT+USB+LAN+Thunderbolt+Headset+HDMI IN+Camera+2.4GHz Wi-Fi operating
Mode 2	HDMI OUT+USB+LAN+Thunderbolt+Headset+HDMI IN+Camera+5GHz Wi-Fi operating

Note: Only the data of worst-case mode 1 was recorded in this report.

2.3 DESCRIPTION OF THE 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.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating
USB C-to-C cable	DTEN	N/A	N/A	1.9m
stylus	DTEN	N/A	N/A	N/A
Power cord	XIEKANG ELECTRONIC	N/A	N/A	3m, US plug
Camera	DTEN	N/A	N/A	2pcs

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Keyboard	Lenovo	EKB-536A	N/A	N/A
Mouse	Lenovo	EMS-537A	N/A	N/A
USB Flash disk	Hewlett-Packard	V206	N/A	2pcs
Laptop	Lenovo	小新 Air 14	N/A	N/A
HDMI cable	GIMI	E81280-D	N/A	1.8m, shielded
HDMI cable	SONY	N/A	N/A	1.1m, shielded
Monitor	HKC	T275IU	N/A	N/A
Earphone	N/A	39630078	N/A	N/A
RJ45 cable	N/A	N/A	N/A	1m, unshielded
Router	CHINA TELECOM	WTA541	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.5 MEASUREMENT INSTRUMENTS LIST

Conducted Emission

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU	100372	2022.04.12	2023.04.11
LISN	COM-POWER	LI-115	02032	2022.04.13	2023.04.12
LISN	SCHWARZBECK	NNLK 8121	00847	2022.08.19	2023.08.18
CE Cable	N.A	C01	N.A	2022.05.05	2023.05.04
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2022.06.02	2023.06.01
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04
Testing Software	EMC-I_V1.4.0.3_SKET				

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESU	100372	2022.04.12	2023.04.11
Spectrum Analyzer	Kesight	N9010B	MY60242508	2022.04.29	2023.04.28
Bilog Antenna	SCHAFFNER	CBL6112B	270S	2022.06.05	2024.06.04
Horn Antenna	SCHWARZBECK	3115	10SL0060	2022.06.02	2024.06.01
Pre-amplifier(0.1M-3GHz)	HP	8447D	2727A05655	2022.04.11	2023.04.10
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2022.04.12	2023.04.11
RE Cable (9K-1G)	N.A	R01	N.A	2022.05.05	2023.05.04
RE Cable (1-26G)	N.A	R02	N.A	2022.05.05	2023.05.04
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04
Testing Software	EMC-I_V1.4.0.3_SKET				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS

FREQUENCY (MHz)	Conducted Emission Limits (dBuV)			
	Class A		Class B	
	Quasi-peak	Average	Quasi-peak	Average
0.15 ~ 0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.5 ~ 5	73.00	60.00	56.00	46.00
5 ~ 30	73.00	60.00	60.00	50.00

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
Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

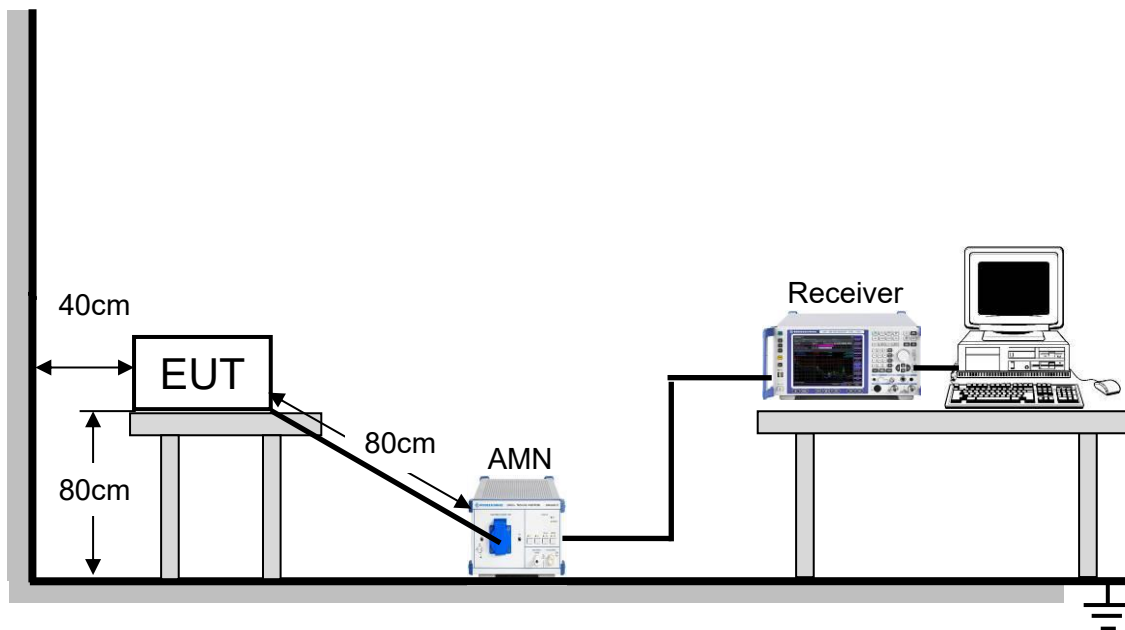
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item - EUT Test Photos.



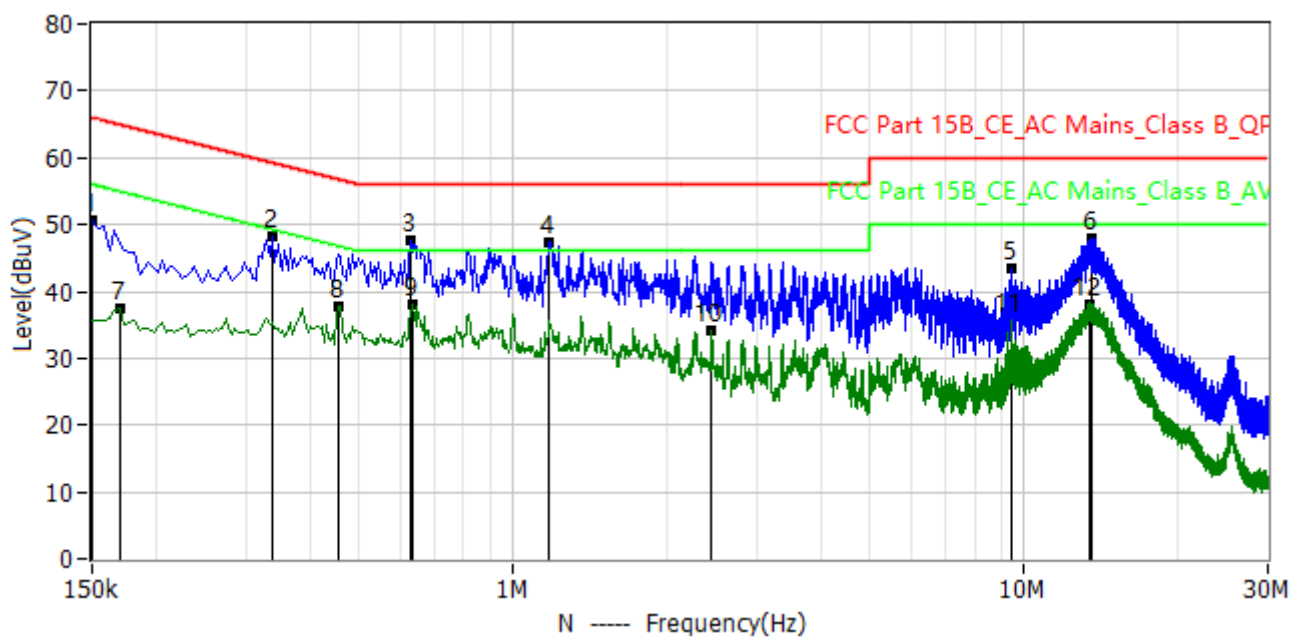
3.1.3 TEST SETUP





3.1.4 TEST RESULTS

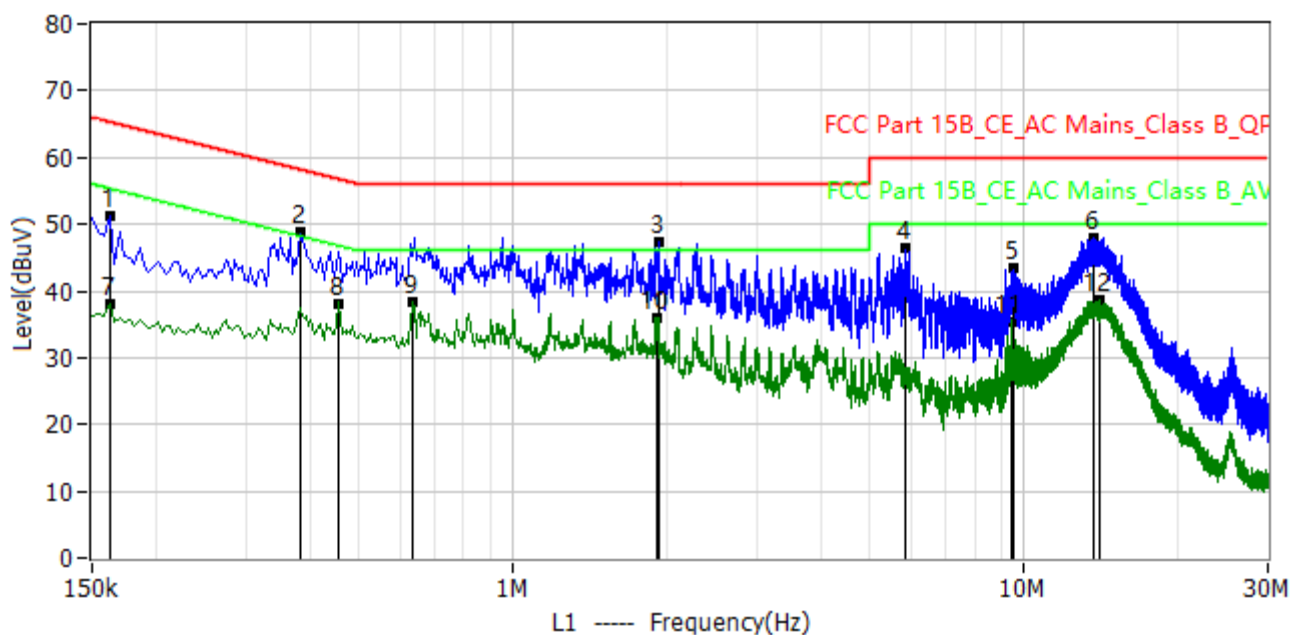
Test Lab: LGT EMC Lab	Project: LGT22G011
EUT: DTEN D7X	Test Engineer: Terry.zhao
M/N: DB71455	Temperature: 25°C
S/N:	Humidity: 45%RH
Test Mode: HDMI OUT+USB+LAN+Thunderbolt+Headset+Camera+2.4GHz Wi-Fi operating	Test Voltage: AC 120V/60Hz
Note:	Test Data: 2022-07-26 11:23:22



No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Reading dBuV	Factor dB	Detector	Phase
1*	150.000kHz	66.0	50.5	-15.5	30.0	20.5	QP	N
2*	338.000kHz	59.3	48.2	-11.1	27.7	20.5	QP	N
3*	630.000kHz	56.0	47.7	-8.3	27.2	20.5	QP	N
4*	1.170MHz	56.0	47.2	-8.8	26.6	20.6	QP	N
5*	9.418MHz	60.0	43.4	-16.6	22.5	20.9	QP	N
6*	13.614MHz	60.0	48.0	-12.0	26.9	21.1	QP	N
7*	170.000kHz	55.0	37.4	-17.6	16.9	20.5	AV	N
8*	454.000kHz	46.8	37.8	-9.0	17.3	20.5	AV	N
9*	638.000kHz	46.0	38.2	-7.8	17.7	20.5	AV	N
10*	2.438MHz	46.0	34.2	-11.8	13.5	20.7	AV	N
11*	9.414MHz	50.0	35.7	-14.3	14.8	20.9	AV	N
12*	13.414MHz	50.0	38.2	-11.8	17.2	21.0	AV	N



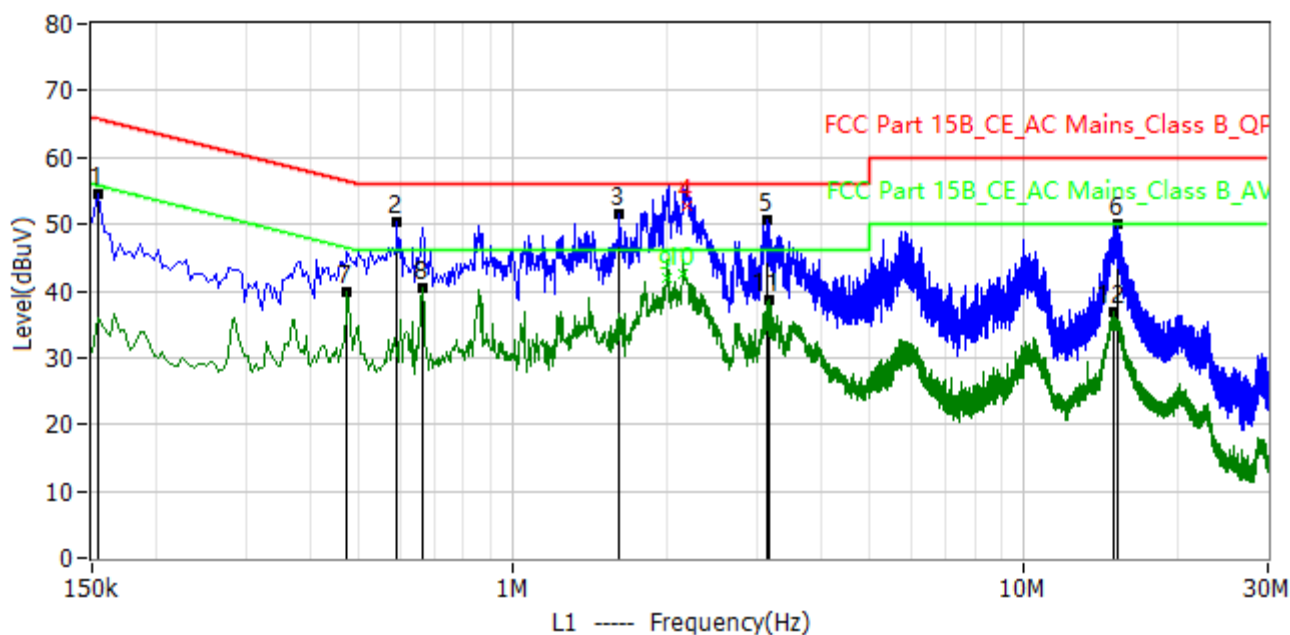
Test Lab: LGT EMC Lab	Project: LGT22G011
EUT: DTEN D7X	Test Engineer: Terry.zhao
M/N: DB71455	Temperature: 25°C
S/N:	Humidity: 45%RH
Test Mode: HDMI OUT+USB+LAN+Thunderbolt+Headset+Camera+2.4GHz Wi-Fi operating	Test Voltage: AC 120V/60Hz
Note:	Test Data: 2022-07-26 11:27:03



No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Reading dBuV	Factor dB	Detector	Phase
1*	162.000kHz	65.4	51.3	-14.1	30.8	20.5	QP	L1
2*	382.000kHz	58.2	48.7	-9.6	28.2	20.5	QP	L1
3*	1.922MHz	56.0	47.3	-8.7	26.6	20.7	QP	L1
4*	5.850MHz	60.0	46.3	-13.7	25.5	20.8	QP	L1
5*	9.558MHz	60.0	43.3	-16.7	22.4	20.9	QP	L1
6*	13.706MHz	60.0	48.0	-12.0	26.9	21.1	QP	L1
7*	162.000kHz	55.4	38.0	-17.3	17.5	20.5	AV	L1
8*	454.000kHz	46.8	38.2	-8.6	17.7	20.5	AV	L1
9*	638.000kHz	46.0	38.3	-7.7	17.8	20.5	AV	L1
10*	1.910MHz	46.0	36.1	-9.9	15.4	20.7	AV	L1
11*	9.414MHz	50.0	35.5	-14.5	14.6	20.9	AV	L1
12*	14.078MHz	50.0	38.7	-11.3	17.6	21.1	AV	L1



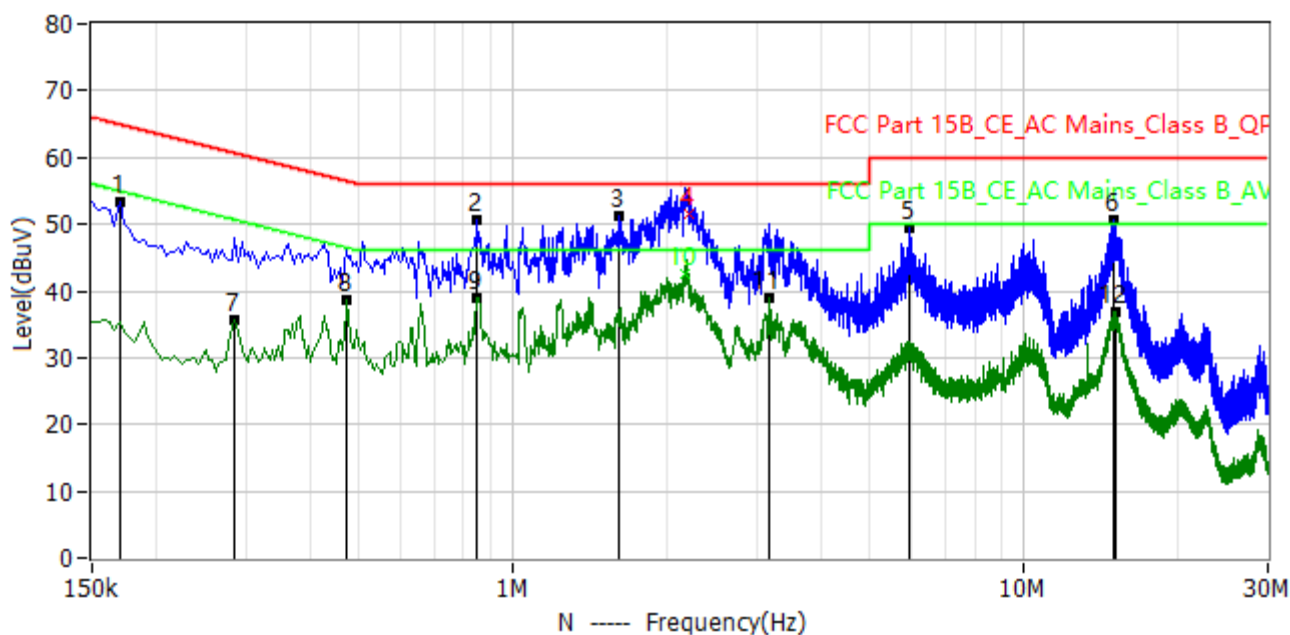
Test Lab: LGT EMC Lab	Project: LGT22G011
EUT: DTEN D7X	Test Engineer: Terry.zhao
M/N: DB71455-S1	Temperature: 25°C
S/N:	Humidity: 45%RH
Test Mode: HDMI OUT+USB+LAN+Thunderbolt+Headset+HDMI IN+Camera+2.4GHz Wi-Fi operating	Test Voltage: AC 120V/60Hz
Note:	Test Data: 2022-08-15 16:41:05



No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Reading dBuV	Factor dB	Detector	Phase
1*	154.000kHz	65.80	54.42	-11.40	43.92	10.50	QP	L1
2*	594.000kHz	56.00	50.31	-5.70	39.80	10.51	QP	L1
3*	1.618MHz	56.00	51.58	-4.40	40.92	10.66	QP	L1
4	2.198MHz	56.00	52.62	-3.40	41.92	10.70	QP	L1
5*	3.154MHz	56.00	50.49	-5.50	39.72	10.77	QP	L1
6*	15.230MHz	60.00	50.00	-10.00	38.95	11.05	QP	L1
7*	474.000kHz	46.40	39.85	-6.60	29.34	10.51	AV	L1
8*	666.000kHz	46.00	40.36	-5.60	29.85	10.51	AV	L1
9	1.998MHz	46.00	41.86	-4.10	31.16	10.70	AV	L1
10	2.154MHz	46.00	42.58	-3.40	31.88	10.70	AV	L1
11*	3.158MHz	46.00	38.61	-7.40	27.84	10.77	AV	L1
12*	14.938MHz	50.00	36.85	-13.10	25.80	11.05	AV	L1



Test Lab: LGT EMC Lab	Project: LGT22G011
EUT: DTEN D7X	Test Engineer: Terry.zhao
M/N: DB71455-S1	Temperature: 25°C
S/N:	Humidity: 45%RH
Test Mode: HDMI OUT+USB+LAN+Thunderbolt+Headset+HDMI IN+Camera+2.4GHz Wi-Fi operating	Test Voltage: AC 120V/60Hz
Note:	Test Data: 2022-08-15 16:41:16



No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Reading dBuV	Factor dB	Detector	Phase
1*	170.000kHz	65.00	53.26	-11.70	42.76	10.50	QP	N
2*	850.000kHz	56.00	50.49	-5.50	39.97	10.52	QP	N
3*	1.606MHz	56.00	51.18	-4.80	40.52	10.66	QP	N
4	2.202MHz	56.00	51.62	-4.40	40.92	10.70	QP	N
5*	5.978MHz	60.00	49.33	-10.70	38.48	10.85	QP	N
6*	14.986MHz	60.00	50.49	-9.50	39.42	11.07	QP	N
7*	286.000kHz	50.60	35.69	-14.90	25.19	10.50	AV	N
8*	474.000kHz	46.40	38.55	-7.90	28.04	10.51	AV	N
9*	850.000kHz	46.00	39.07	-6.90	28.55	10.52	AV	N
10	2.166MHz	46.00	42.53	-3.50	31.83	10.70	AV	N
11*	3.170MHz	46.00	38.98	-7.00	28.21	10.77	AV	N
12*	15.066MHz	50.00	36.78	-13.20	25.71	11.07	AV	N



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS

Below 1 GHz

Frequency (MHz)	Class A	Class B
	Field strength (dBuV/m) (at 3m)	Field strength (dBuV/m) (at 3m)
30 - 88	49.5	40
88 - 216	53.9	43.5
216 - 960	56.9	46
Above 960	60	54

Above 1 GHz

Frequency (MHz)	Class A		Class B	
	Field strength (dBuV/m) (at 3m)		Field strength (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

Frequency Range of Radiated Disturbance Measurement

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

Note:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
- (2) The tighter limit applies at the band edges;
- (3) 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.

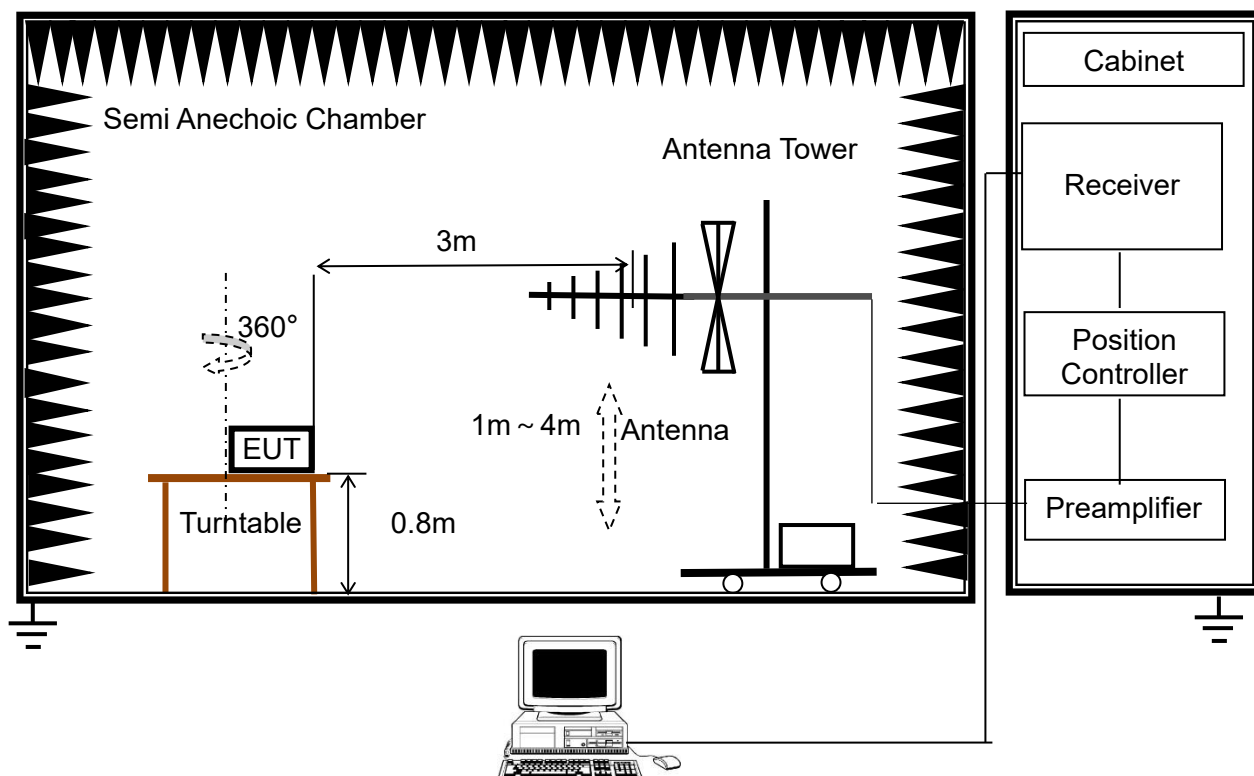
3.2.2 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. EUT as the center to the edge of the auxiliary device, the distance from the maximum edge to the center of the antenna is 3 meter.
- c. The height of antenna is varied from 1 meter to 4 meter above the ground to determine the maximum value of the field strength. 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 from 1 meter to 4 meter and the rotatable table was turned from 0 degrees to 360 degree to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

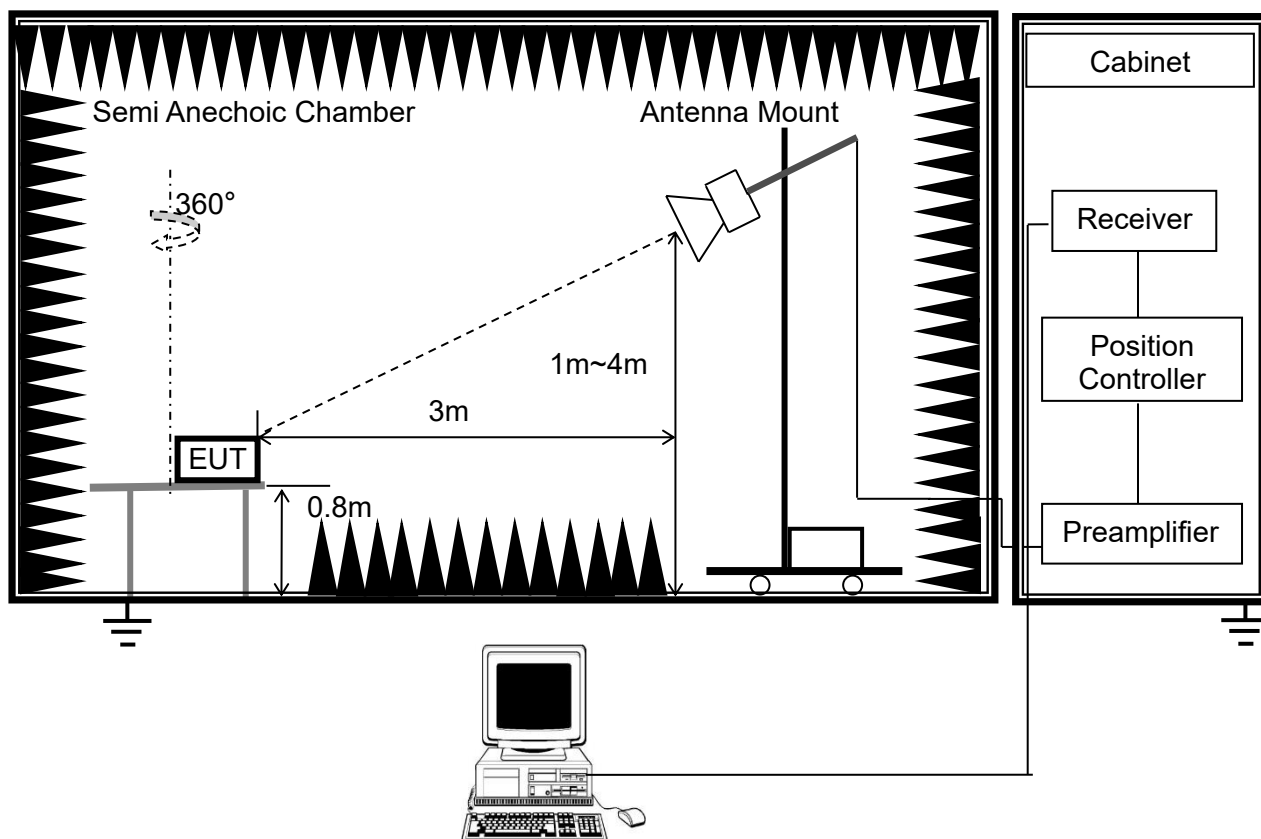


3.2.3 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



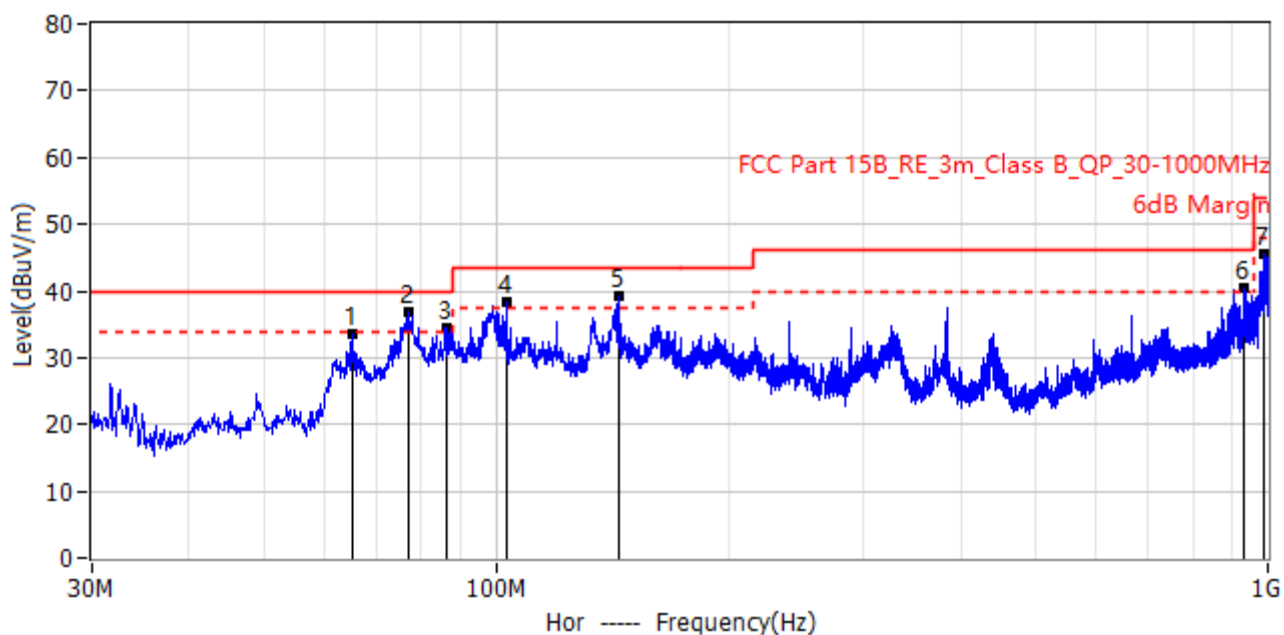
(B) Radiated Emission Test Set-Up Frequency Above 1GHz





3.2.4 TEST RESULTS - BELOW 1GHZ

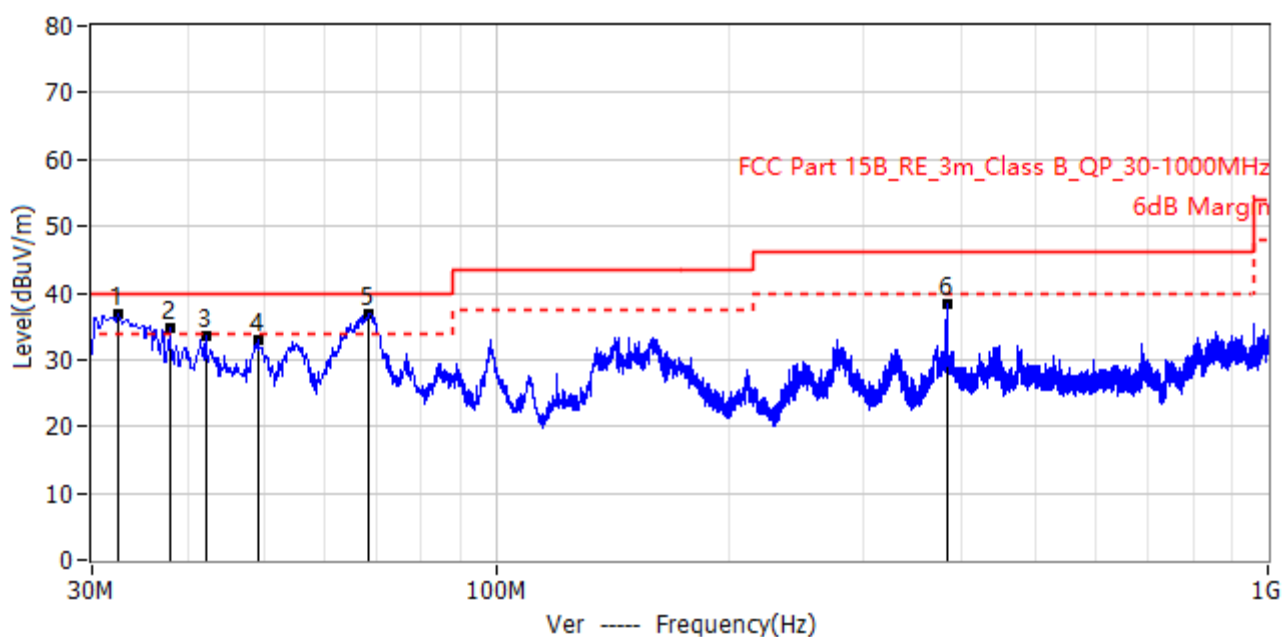
Test Lab: LGT EMC Lab	Project: LGT22G011
EUT: DTEN D7X	Test Engineer: Terry.zhao
M/N: DB71455	Temperature: 25°C
S/N:	Humidity: 45%RH
Test Mode: HDMI OUT+USB+LAN+Thunderbolt+Headset+HDMI IN+Camera+2.4GHz Wi-Fi operating	Test Voltage: AC 120V/60Hz
Note:	Test Data: 2022-08-15 11:12:31



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	65.163MHz	40.00	33.46	-6.50	49.96	-16.50	QP	Hor	200.0	131.0
2*	77.045MHz	40.00	36.82	-3.20	51.17	-14.35	QP	Hor	200.0	195.0
3*	86.139MHz	40.00	34.58	-5.40	47.28	-12.70	QP	Hor	200.0	101.0
4*	103.478MHz	43.50	38.41	-5.10	49.09	-10.68	QP	Hor	200.0	183.0
5*	143.975MHz	43.50	39.31	-4.20	49.97	-10.66	QP	Hor	200.0	0.0
6*	933.191MHz	46.00	40.34	-5.70	37.81	2.53	QP	Hor	100.0	9.0
7*	988.360MHz	54.00	45.52	-8.50	42.09	3.43	QP	Hor	100.0	12.0



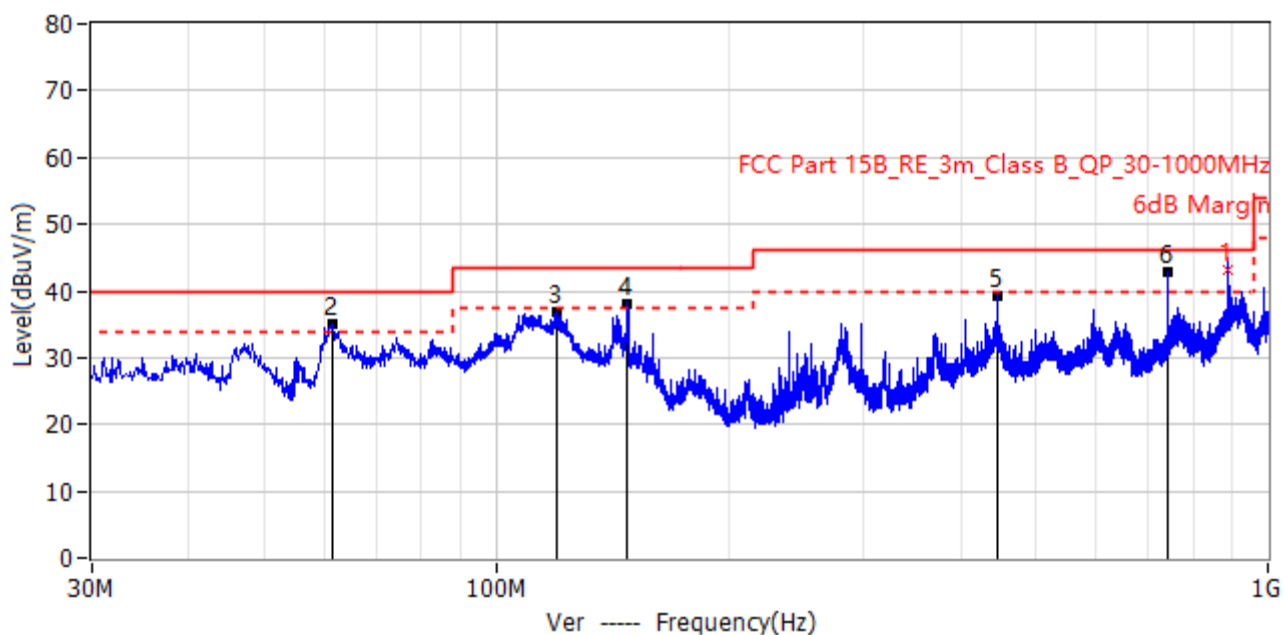
Test Lab: LGT EMC Lab	Project: LGT22G011
EUT: DTEN D7X	Test Engineer: Terry.zhao
M/N: DB71455	Temperature: 25°C
S/N:	Humidity: 45%RH
Test Mode: HDMI OUT+USB+LAN+Thunderbolt+Headset+HDMI IN+Camera+2.4GHz Wi-Fi operating	Test Voltage: AC 120V/60Hz
Note:	Test Data: 2022-08-15 11:15:41



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	32.425MHz	40.00	36.78	-3.22	43.05	-6.27	QP	Ver	100.0	0.0
2*	37.760MHz	40.00	34.64	-5.36	42.92	-8.28	QP	Ver	100.0	0.0
3*	42.125MHz	40.00	33.58	-6.42	44.23	-10.65	QP	Ver	100.0	0.0
4*	49.158MHz	40.00	33.08	-6.92	47.64	-14.56	QP	Ver	100.0	0.0
5*	68.558MHz	40.00	36.88	-3.12	52.54	-15.66	QP	Ver	100.0	0.0
6*	384.050MHz	46.00	38.40	-7.60	43.89	-5.49	QP	Ver	100.0	0.0



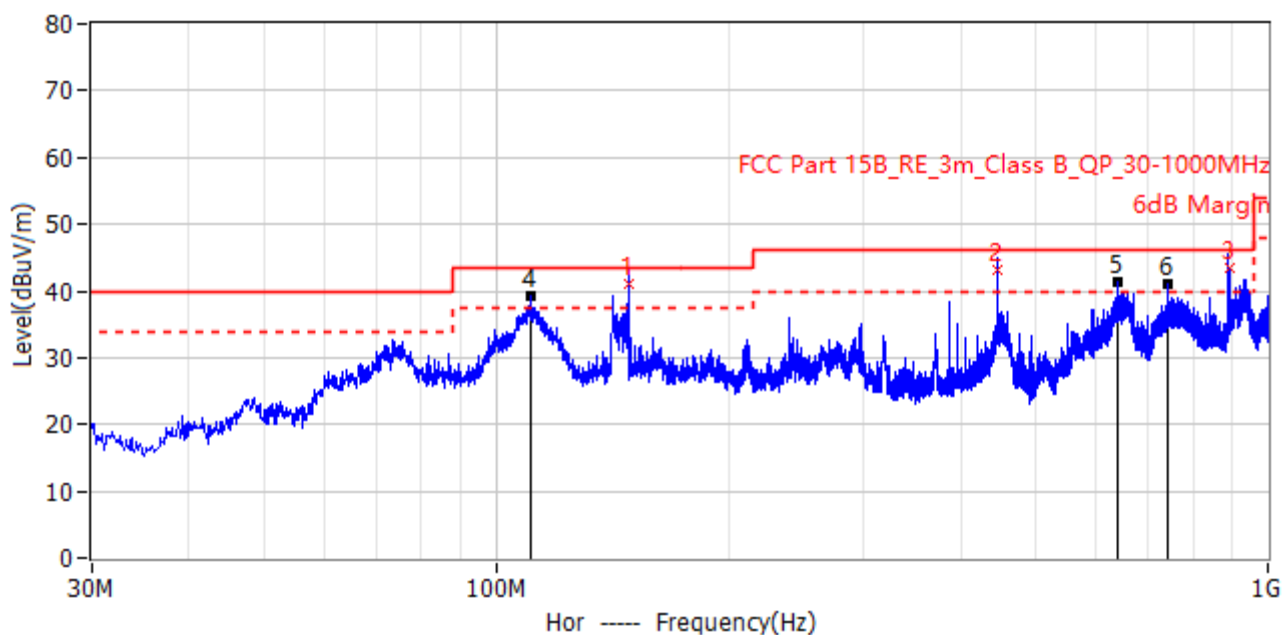
Test Lab: LGT EMC Lab	Project: LGT22G011
EUT: DTEN D7X	Test Engineer: Terry.zhao
M/N: DB71455-S1	Temperature: 25°C
S/N:	Humidity: 45%RH
Test Mode: HDMI OUT+USB+LAN+Thunderbolt+Headset+HDMI IN+Camera+2.4GHz Wi-Fi operating	Test Voltage: AC 120V/60Hz
Note:	Test Data: 2022-08-09 15:02:54



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1	888.961MHz	46.0	43.1	-2.9	40.8	2.3	QP	Ver	100.0	0.0
2*	61.283MHz	40.0	35.1	-4.9	49.5	-14.4	QP	Ver	100.0	0.0
3*	119.968MHz	43.5	36.9	-6.6	49.9	-13.0	QP	Ver	100.0	0.0
4*	147.976MHz	43.5	38.2	-5.3	48.9	-10.7	QP	Ver	100.0	182.0
5*	445.524MHz	46.0	39.4	-6.6	44.7	-5.3	QP	Ver	100.0	117.0
6*	742.586MHz	46.0	42.9	-3.1	45.0	-2.1	QP	Ver	100.0	66.0



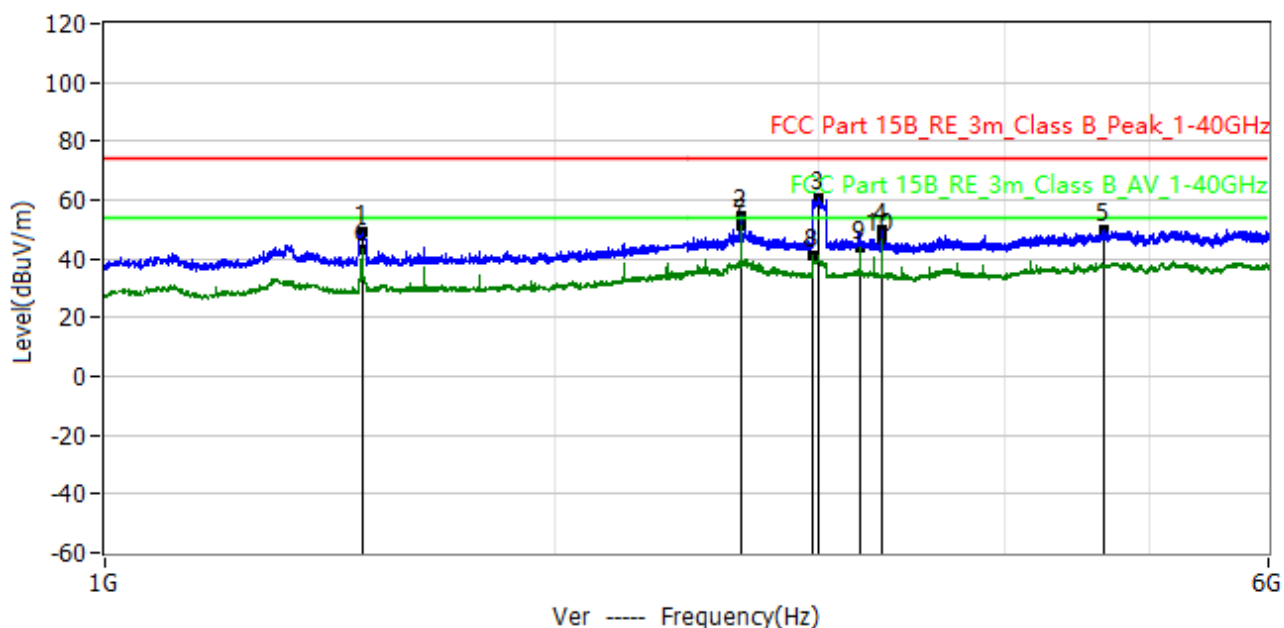
Test Lab: LGT EMC Lab	Project: LGT22G011
EUT: DTEN D7X	Test Engineer: Terry.zhao
M/N: DB71455-S1	Temperature: 25°C
S/N:	Humidity: 45%RH
Test Mode: HDMI OUT+USB+LAN+Thunderbolt+Headset+HDMI IN+Camera+2.4GHz Wi-Fi operating	Test Voltage: AC 120V/60Hz
Note:	Test Data: 2022-08-09 15:11:32



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1	148.496MHz	43.5	41.1	-2.4	51.8	-10.7	QP	Hor	200.0	162.3
2	445.485MHz	46.0	43.0	-3.0	47.8	-4.8	QP	Hor	200.0	297.0
3	890.987MHz	46.0	43.4	-2.6	41.0	2.4	QP	Hor	155.0	77.0
4*	111.116MHz	43.5	39.2	-4.3	49.9	-10.7	QP	Hor	200.0	186.0
5*	640.009MHz	46.0	41.3	-4.7	43.7	-2.4	QP	Hor	100.0	65.0
6*	742.586MHz	46.0	41.0	-5.0	41.5	-0.5	QP	Hor	200.0	289.0



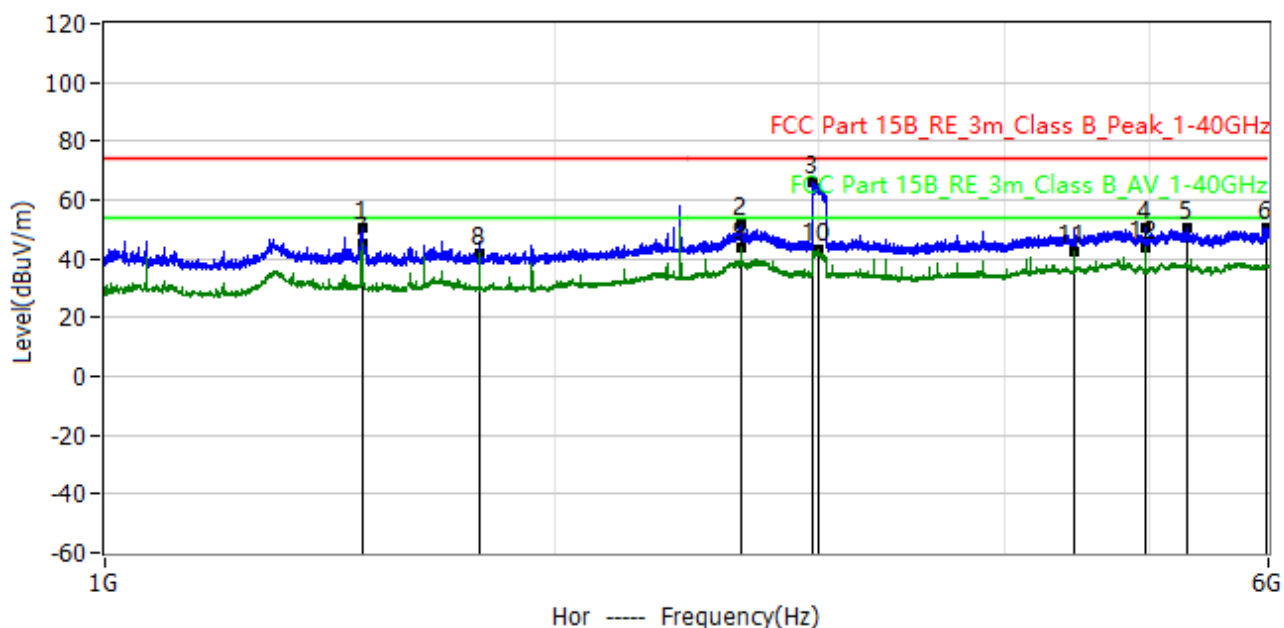
Test Lab: LGT EMC Lab	Project: LGT22G011
EUT: DTEN D7X	Test Engineer: Terry.zhao
M/N: DB71455	Temperature: 25°C
S/N:	Humidity: 45%RH
Test Mode: HDMI OUT+USB+LAN+Thunderbolt+Headset+HDMI IN+Camera+2.4GHz Wi-Fi operating	Test Voltage: AC 120V/60Hz
Note:	Test Data: 2022-08-16 17:45:35



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	1.485GHz	74.00	49.40	-24.60	70.32	-20.92	PK	Ver	100.0	12.0
2*	2.666GHz	74.00	54.90	-19.10	65.01	-10.11	PK	Ver	100.0	26.0
3*	3.000GHz	74.00	60.50	-13.50	68.84	-8.34	PK	Ver	100.0	0.0
4*	3.307GHz	74.00	49.90	-24.10	58.34	-8.44	PK	Ver	100.0	0.0
5*	4.658GHz	74.00	49.70	-24.30	55.58	-5.88	PK	Ver	100.0	0.0
6*	1.485GHz	54.00	43.00	-11.00	63.92	-20.92	AV	Ver	100.0	12.0
7*	2.666GHz	54.00	51.00	-3.00	61.11	-10.11	AV	Ver	100.0	26.0
8*	2.970GHz	54.00	41.20	-12.80	49.70	-8.50	AV	Ver	100.0	344.0
9*	3.203GHz	54.00	43.90	-10.10	52.31	-8.41	AV	Ver	100.0	0.0
10*	3.307GHz	54.00	46.70	-7.30	55.14	-8.44	AV	Ver	100.0	0.0



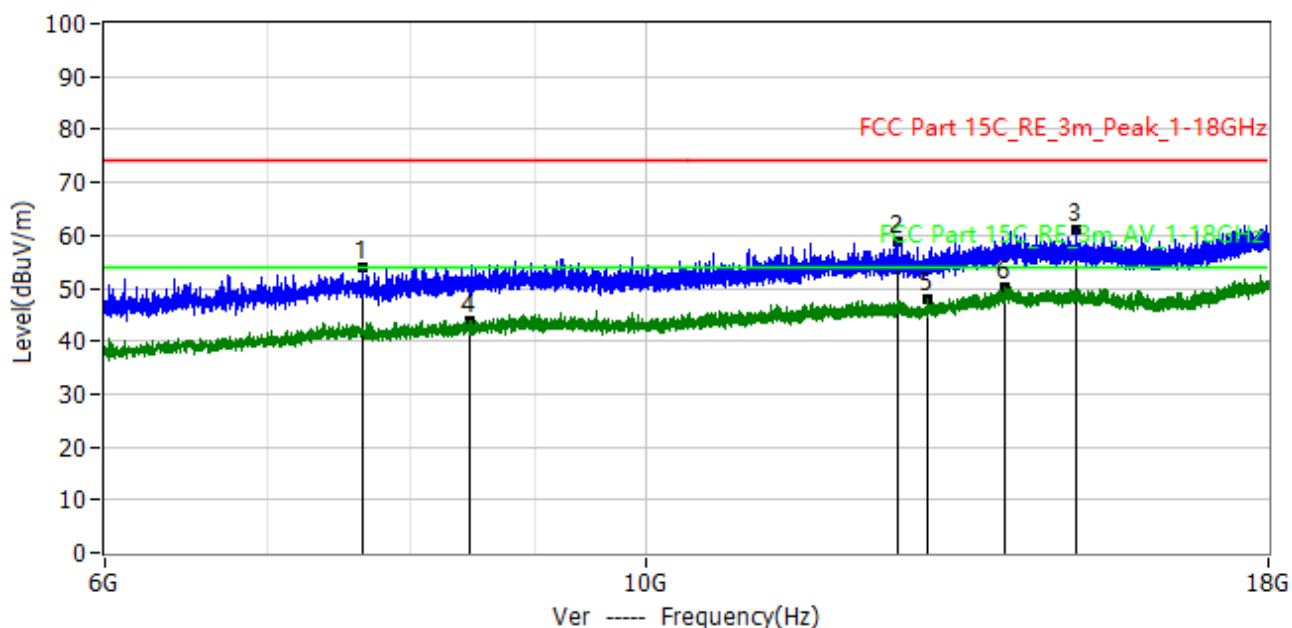
Test Lab: LGT EMC Lab	Project: LGT22G011
EUT: DTEN D7X	Test Engineer: Terry.zhao
M/N: DB71455	Temperature: 25°C
S/N:	Humidity: 45%RH
Test Mode: HDMI OUT+USB+LAN+Thunderbolt+Headset+HDMI IN+Camera+2.4GHz Wi-Fi operating	Test Voltage: AC 120V/60Hz
Note:	Test Data: 2022-08-16 17:46:38



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	1.485GHz	74.00	50.29	-23.71	71.21	-20.92	PK	Hor	100.0	26.0
2*	2.666GHz	74.00	51.70	-22.30	61.81	-10.11	PK	Hor	100.0	327.0
3*	2.977GHz	74.00	66.30	-7.70	74.76	-8.46	PK	Hor	100.0	40.0
4*	4.961GHz	74.00	50.70	-23.30	56.81	-6.11	PK	Hor	100.0	354.0
5*	5.295GHz	74.00	50.80	-23.20	57.88	-7.08	PK	Hor	100.0	134.0
6*	5.984GHz	74.00	50.80	-23.20	58.35	-7.55	PK	Hor	100.0	14.0
7*	1.485GHz	54.00	45.00	-9.00	65.92	-20.92	AV	Hor	100.0	26.0
8*	1.782GHz	54.00	41.55	-12.45	59.98	-18.43	AV	Hor	100.0	60.0
9*	2.667GHz	54.00	43.90	-10.10	54.00	-10.10	AV	Hor	100.0	40.0
10*	3.001GHz	54.00	43.20	-10.80	51.54	-8.34	AV	Hor	100.0	22.0
11*	4.455GHz	54.00	42.20	-11.80	48.15	-5.95	AV	Hor	100.0	52.0
12*	4.961GHz	54.00	43.50	-10.50	49.61	-6.11	AV	Hor	100.0	354.0



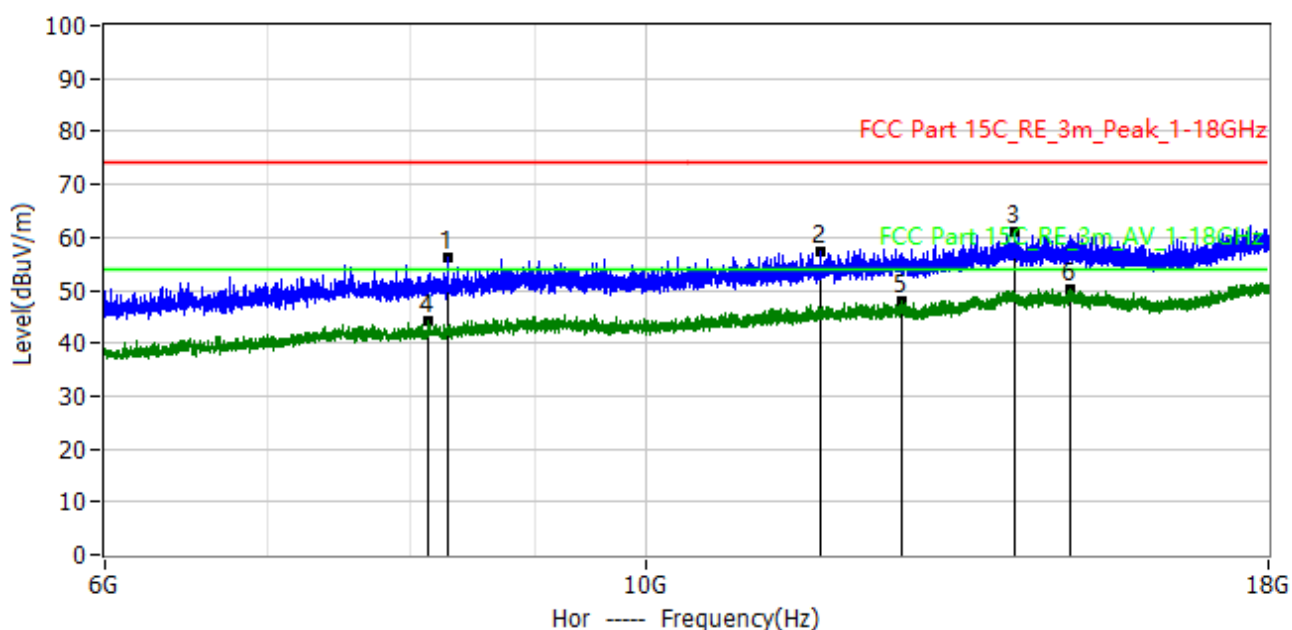
Test Lab: LGT EMC Lab	Project: LGT22G011
EUT: DTEN D7X	Test Engineer: Terry.zhao
M/N: DB71455	Temperature: 25°C
S/N:	Humidity: 45%RH
Test Mode: HDMI OUT+USB+LAN+Thunderbolt+Headset+HDMI IN+Camera+2.4GHz Wi-Fi operating	Test Voltage: AC 120V/60Hz
Note:	Test Data: 2022-08-09 17:00:54



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	7.655GHz	74.00	53.82	-20.18	9.16	44.66	PK	Ver	100.0	0.0
2*	12.689GHz	74.00	58.95	-15.05	9.28	49.67	PK	Ver	100.0	0.0
3*	15.018GHz	74.00	61.05	-12.95	8.30	52.75	PK	Ver	100.0	0.0
4*	8.474GHz	54.00	43.99	-10.01	-1.92	45.91	AV	Ver	100.0	0.0
5*	13.047GHz	54.00	47.79	-6.21	-2.17	49.96	AV	Ver	100.0	0.0
6*	14.036GHz	54.00	50.11	-3.89	-2.56	52.67	AV	Ver	100.0	0.0



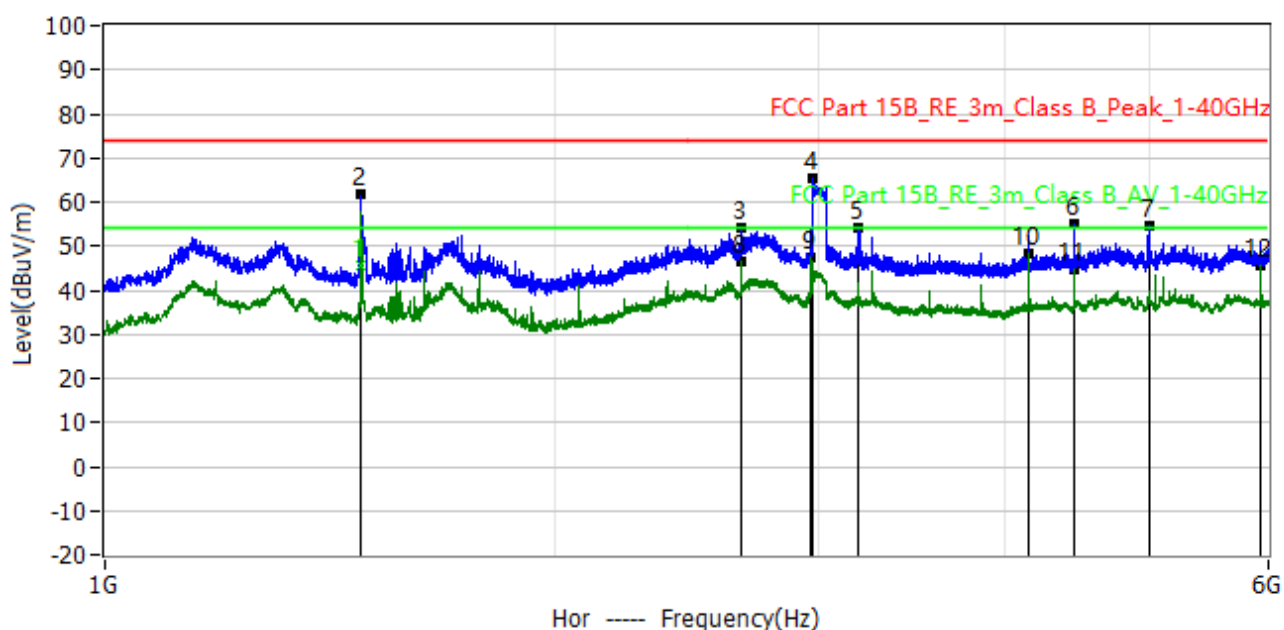
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EUT: DTEN D7X	Test Engineer: Terry.zhao
M/N: DB71455	Temperature: 25°C
S/N:	Humidity: 45%RH
Test Mode: HDMI OUT+USB+LAN+Thunderbolt+Headset+HDMI IN+Camera+2.4GHz Wi-Fi operating	Test Voltage: AC 120V/60Hz
Note:	Test Data: 2022-08-09 17:01:20



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	8.289GHz	74.00	56.15	-17.85	10.59	45.56	PK	Hor	100.0	0.0
2*	11.783GHz	74.00	57.18	-16.82	8.08	49.10	PK	Hor	100.0	0.0
3*	14.178GHz	74.00	61.02	-12.98	8.33	52.69	PK	Hor	100.0	0.0
4*	8.135GHz	54.00	44.14	-9.86	-1.12	45.26	AV	Hor	100.0	0.0
5*	12.741GHz	54.00	48.09	-5.91	-1.61	49.70	AV	Hor	100.0	0.0
6*	14.937GHz	54.00	50.31	-3.69	-2.44	52.75	AV	Hor	100.0	0.0



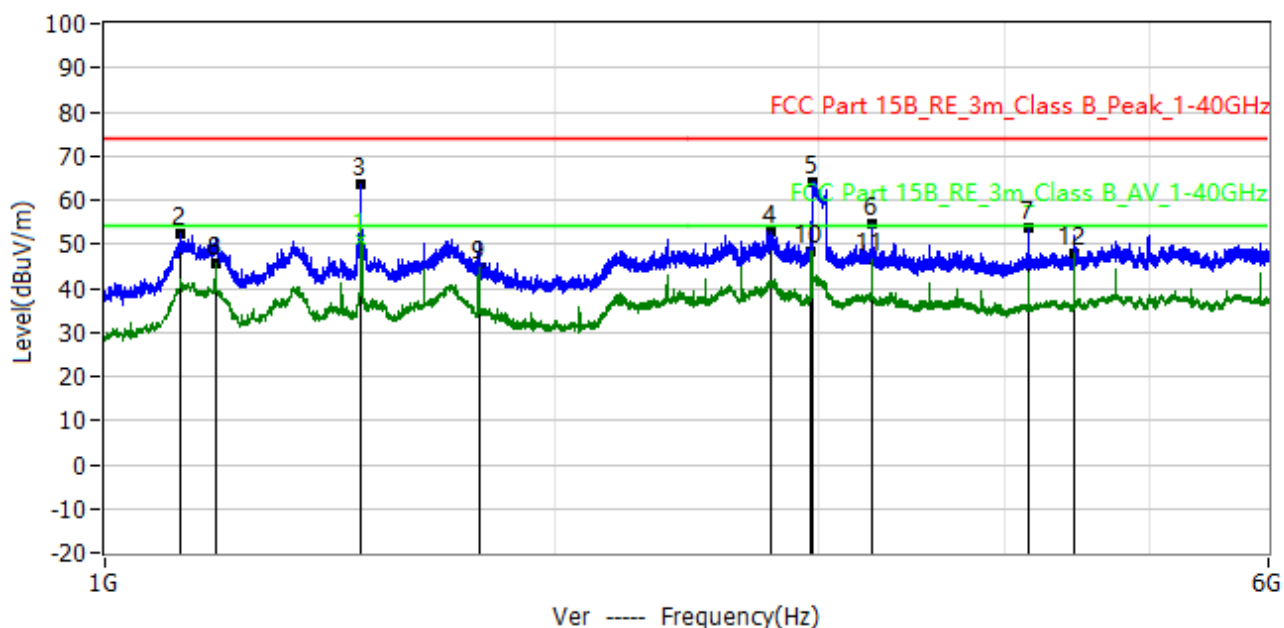
Test Lab: LGT EMC Lab	Project: LGT22G011
EUT: DTEN D7X	Test Engineer: Terry.zhao
M/N: DB71455-S1	Temperature: 25°C
S/N:	Humidity: 45%RH
Test Mode: HDMI OUT+USB+LAN+Thunderbolt+Headset+HDMI IN+Camera+2.4GHz Wi-Fi operating	Test Voltage: AC 120V/60Hz
Note:	Test Data: 2022-08-09 17:11:08



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1	1.482GHz	54.0	45.5	-8.5	66.4	-20.9	AV	Hor	100.0	320.6
2*	1.482GHz	74.0	61.6	-12.4	82.5	-20.9	PK	Hor	100.0	54.0
3*	2.667GHz	74.0	54.2	-19.8	64.3	-10.1	PK	Hor	100.0	346.0
4*	2.977GHz	74.0	65.6	-8.4	74.1	-8.5	PK	Hor	100.0	24.0
5*	3.188GHz	74.0	54.0	-20.0	62.4	-8.4	PK	Hor	100.0	10.0
6*	4.445GHz	74.0	55.2	-18.8	61.2	-6.0	PK	Hor	100.0	48.0
7*	4.998GHz	74.0	54.7	-19.3	60.8	-6.1	PK	Hor	100.0	14.0
8*	2.667GHz	54.0	46.3	-7.7	56.4	-10.1	AV	Hor	100.0	346.0
9*	2.963GHz	54.0	47.3	-6.7	55.8	-8.5	AV	Hor	100.0	346.0
10*	4.149GHz	54.0	48.3	-5.7	55.5	-7.2	AV	Hor	100.0	12.0
11*	4.455GHz	54.0	44.7	-9.3	50.6	-5.9	AV	Hor	100.0	48.0
12*	5.927GHz	54.0	45.4	-8.6	53.0	-7.6	AV	Hor	100.0	16.0



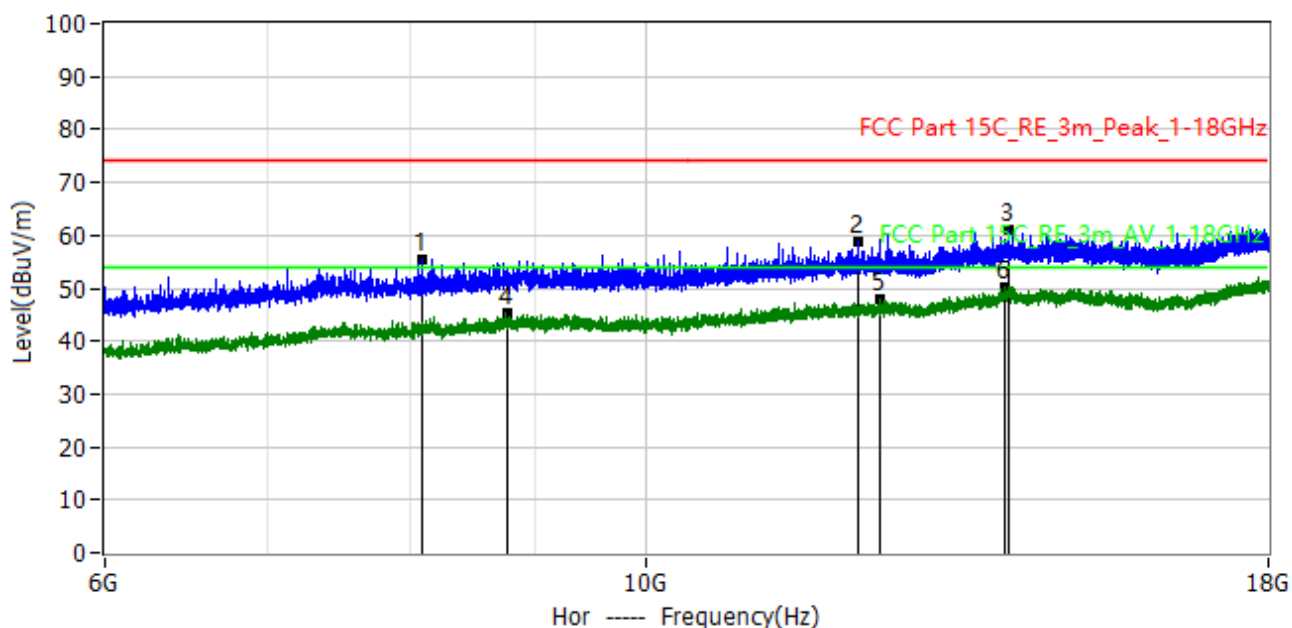
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EUT: DTEN D7X	Test Engineer: Terry.zhao
M/N: DB71455-S1	Temperature: 25°C
S/N:	Humidity: 45%RH
Test Mode: HDMI OUT+USB+LAN+Thunderbolt+Headset+HDMI IN+Camera+2.4GHz Wi-Fi operating	Test Voltage: AC 120V/60Hz
Note:	Test Data: 2022-08-09 17:13:50



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1	1.482GHz	54.0	51.1	-3.0	72.0	-20.9	AV	Ver	100.0	0.0
2*	1.122GHz	74.0	52.2	-21.8	75.9	-23.7	PK	Ver	100.0	330.0
3*	1.482GHz	74.0	63.5	-10.5	84.4	-20.9	PK	Ver	100.0	0.0
4*	2.787GHz	74.0	52.8	-21.2	62.3	-9.5	PK	Ver	100.0	360.0
5*	2.977GHz	74.0	64.2	-9.8	72.7	-8.5	PK	Ver	100.0	359.0
6*	3.260GHz	74.0	54.6	-19.4	63.0	-8.4	PK	Ver	100.0	53.0
7*	4.149GHz	74.0	53.5	-20.5	60.7	-7.2	PK	Ver	100.0	52.0
8*	1.186GHz	54.0	45.4	-8.6	68.5	-23.1	AV	Ver	100.0	346.0
9*	1.778GHz	54.0	44.6	-9.4	63.1	-18.5	AV	Ver	100.0	0.0
10*	2.963GHz	54.0	48.5	-5.5	57.0	-8.5	AV	Ver	100.0	359.0
11*	3.260GHz	54.0	46.5	-7.5	54.9	-8.4	AV	Ver	100.0	53.0
12*	4.445GHz	54.0	47.9	-6.1	53.9	-6.0	AV	Ver	100.0	337.0



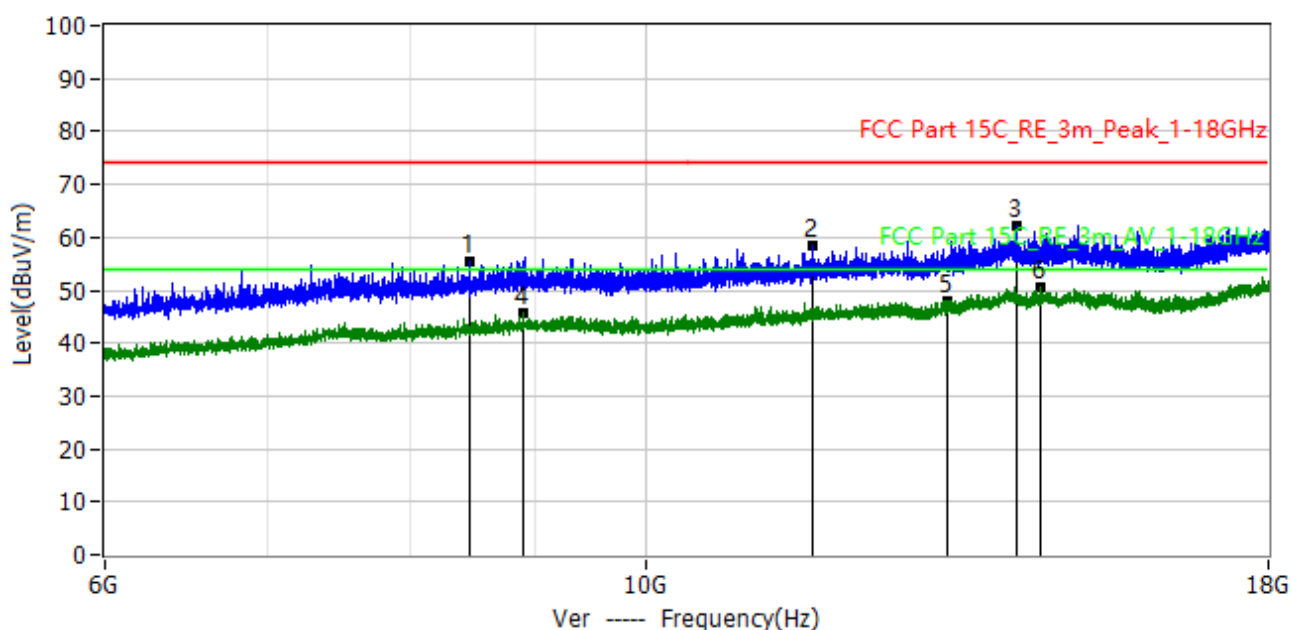
Test Lab: LGT EMC Lab	Project: LGT22G011
EUT: DTEN D7X	Test Engineer: Terry.zhao
M/N: DB71455-S1	Temperature: 25°C
S/N:	Humidity: 45%RH
Test Mode: HDMI OUT+USB+LAN+Thunderbolt+Headset+HDMI IN+Camera+2.4GHz Wi-Fi operating	Test Voltage: AC 120V/60Hz
Note:	Test Data: 2022-08-09 17:01:45



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	8.096GHz	74.00	55.50	-18.50	10.32	45.18	PK	Hor	100.0	0.0
2*	12.227GHz	74.00	58.92	-15.08	9.48	49.44	PK	Hor	100.0	0.0
3*	14.091GHz	74.00	60.97	-13.03	8.29	52.68	PK	Hor	100.0	0.0
4*	8.765GHz	54.00	45.27	-8.73	-1.21	46.48	AV	Hor	100.0	0.0
5*	12.462GHz	54.00	48.10	-5.90	-1.46	49.56	AV	Hor	100.0	0.0
6*	14.045GHz	54.00	50.35	-3.65	-2.32	52.67	AV	Hor	100.0	0.0



Test Lab: LGT EMC Lab	Project: LGT22G011
EUT: DTEN D7X	Test Engineer: Terry.zhao
M/N: DB71455-S1	Temperature: 25°C
S/N:	Humidity: 45%RH
Test Mode: HDMI OUT+USB+LAN+Thunderbolt+Headset+HDMI IN+Camera+2.4GHz Wi-Fi operating	Test Voltage: AC 120V/60Hz
Note:	Test Data: 2022-08-09 17:02:29



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	8.471GHz	74.00	55.30	-18.70	9.39	45.91	PK	Ver	100.0	0.0
2*	11.708GHz	74.00	58.38	-15.62	9.35	49.03	PK	Ver	100.0	0.0
3*	14.183GHz	74.00	62.22	-11.78	9.53	52.69	PK	Ver	100.0	0.0
4*	8.910GHz	54.00	45.84	-8.16	-0.92	46.76	AV	Ver	100.0	0.0
5*	13.296GHz	54.00	48.10	-5.90	-2.57	50.67	AV	Ver	100.0	0.0
6*	14.523GHz	54.00	50.69	-3.31	-2.03	52.72	AV	Ver	100.0	0.0

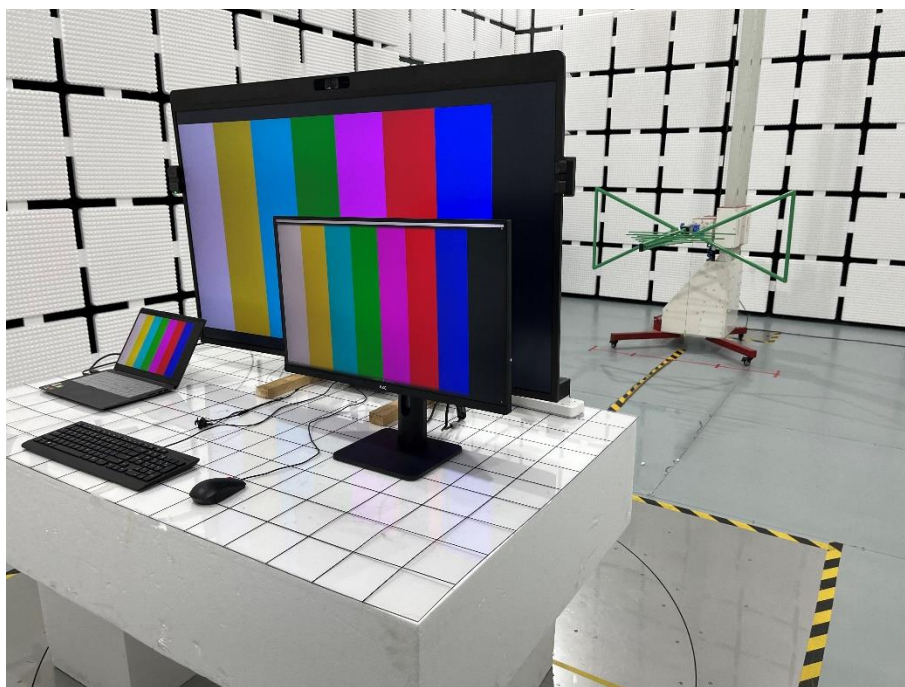


APPENDIX 1 - TEST SETUP

Conducted Emission Test Setup Photo



Radiated Emission Test Setup Photo - Below 1GHz





Radiated Emission Test Setup Photo - Above 1GHz



*****END OF THE REPORT*****