

FCC REPORT

(BLE)

Applicant: Sun Cupid Technology (HK) Ltd.

Address of Applicant: 16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong.

Equipment Under Test (EUT)

Product Name: LTE mobile phone

Model No.: N5501L, A5L

Trade mark: NUU

FCC ID: 2ADINN5501L

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 20 Jun., 2018

Date of Test: 20 Jun., to 16 Jul., 2018

Date of report issued: 25 Jul., 2018

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	25 Jul., 2018	Original

Tested by:

YT Yang
Test Engineer

Date:

25 Jul., 2018

Reviewed by:

Wimer Zhang
Project Engineer

Date:

25 Jul., 2018

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4 Test Summary

Test Items	Section in CFR 47	Result
Antenna requirement	15.203 & 15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247 (d)	Pass
Spurious Emission	15.205 & 15.209	Pass
<i>Pass: The EUT complies with the essential requirements in the standard.</i> <i>N/A: Not Applicable.</i>		

5 General Information

5.1 Client Information

Applicant:	Sun Cupid Technology (HK) Ltd.
Address:	16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong.
Manufacturer	Sun Cupid Technology (HK) Ltd.
Address:	16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong.
Factory:	SUNCUPID (ShenZhen) Electronic Ltd
Address:	Baolong Industrial City, Longgang District, Shenzhen Hi-Tech Road, Building 1, A 7, China.

5.2 General Description of E.U.T.

Product Name:	LTE mobile phone
Model No.:	N5501L, A5L
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	-1.0 dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V-2650mAh
AC adapter:	Adapter(1) Model: HNBL050100UX Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1.0A Adapter(2) Model: HJ-0501000E1-US Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1.0A Adapter(3) Model: HJ-0501000B3-EU Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1.0A
Remark:	1. The No.: N5501L, A5L were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name and trademark. 2. adapter (1) have different pins and the internal structure is the same, so there is no need to do the difference test.

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Note:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test. Channel No. 0, 20 & 39 were selected as Lowest, Middle and Highest channel.

5.3 Test environment and test mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation

The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±2.22 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)

5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Registration No.: 727551**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

- **IC - Registration No.: 10106A-1**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

5.8 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-16-2018	03-15-2019
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A
Pre-amplifier	HP	8447D	2944A09358	03-07-2018	03-06-2019
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019

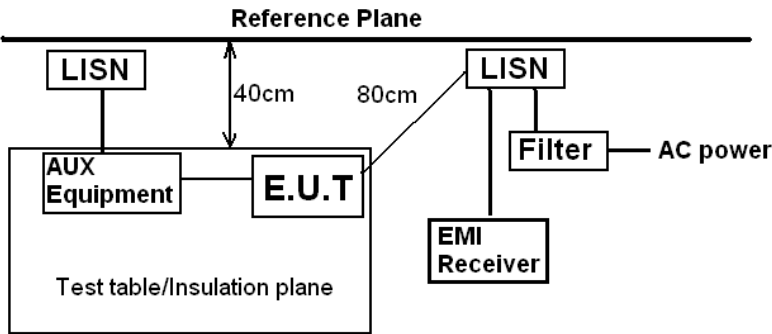
Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-07-2018	03-06-2019
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-07-2018	03-06-2019
LISN	CHASE	MN2050D	1447	03-19-2018	03-18-2019
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019
Cable	HP	10503A	N/A	03-07-2018	03-06-2019
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A

6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement:	FCC Part 15 C Section 15.203 /247(c)
15.203 requirement: 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
E.U.T Antenna:	
The BLE antenna is an Internal antenna which cannot replace by end-user, the best-case gain of the antenna is -1.0 dBi.	
	

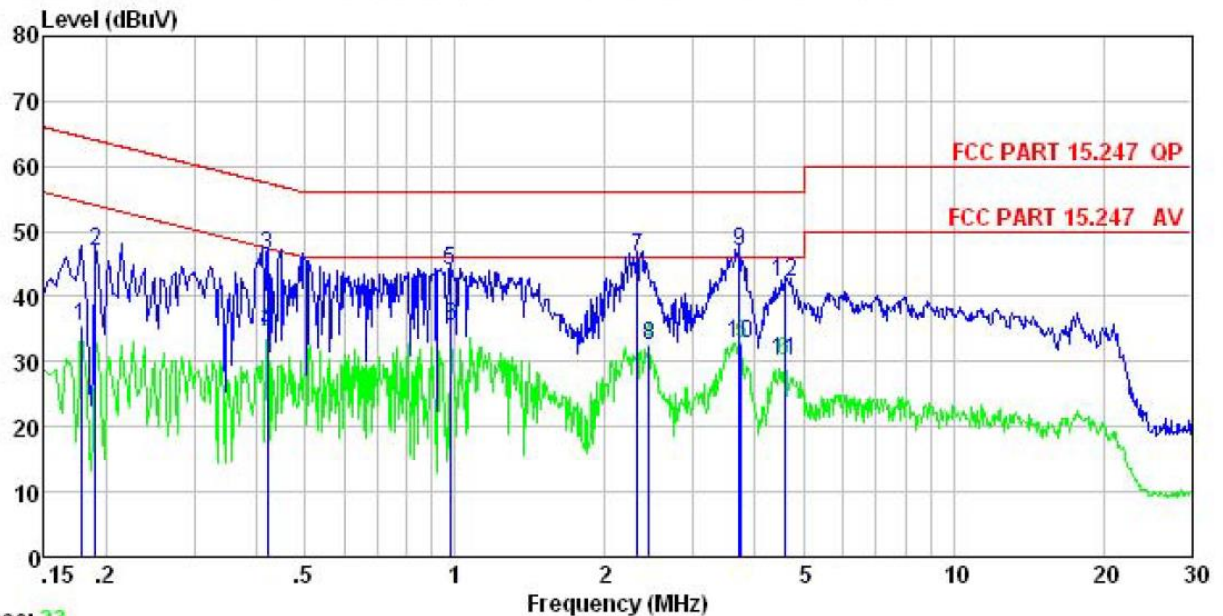
6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150 kHz to 30 MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithm of the frequency.		
Test procedure	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.		
Test setup:	 Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m		
Test Instruments:	Refer to section 5.8 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

Adapter (1)

Measurement Data:

Test Phase: Neutral



Trace: 23

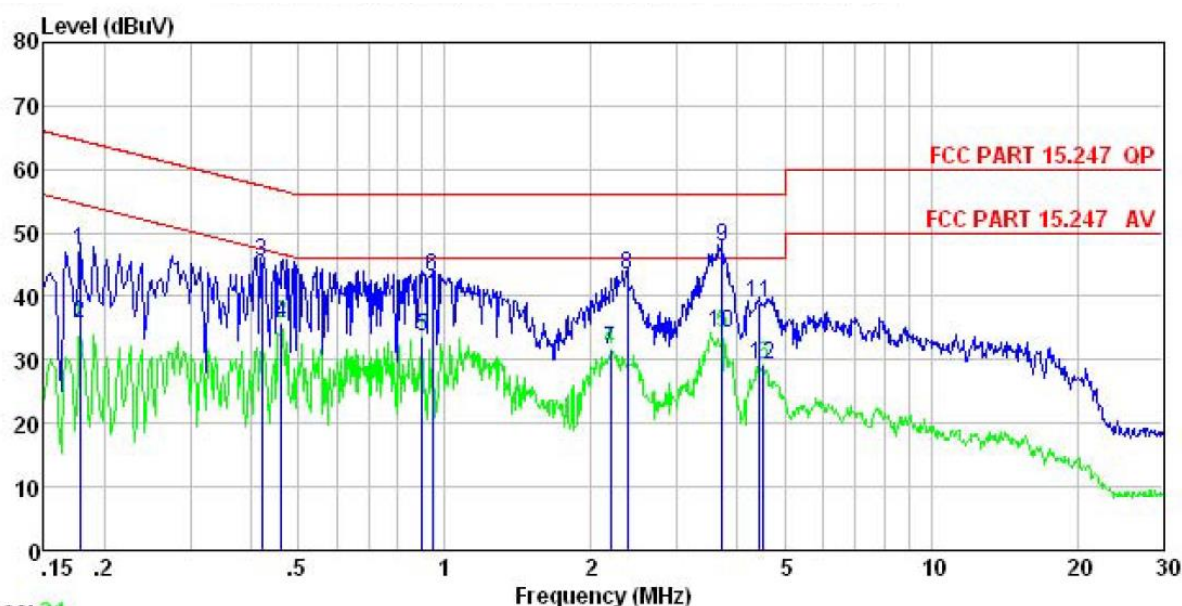
Site : CCIS Shielding Room
 Condition : FCC PART 15.247 QP LISN NEUTRAL
 EUT : LTE mobile phone
 Model : N5501L
 Test Mode : BLE mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: YT
 Remark :

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.178	23.77	0.95	10.77	35.49	64.59	-29.10	Average
2	0.190	35.31	0.93	10.76	47.00	64.02	-17.02	QP
3	0.421	34.72	0.97	10.73	46.42	57.42	-11.00	QP
4	0.421	22.79	0.97	10.73	34.49	57.42	-22.93	Average
5	0.979	32.07	0.97	10.86	43.90	56.00	-12.10	QP
6	0.984	23.57	0.97	10.87	35.41	56.00	-20.59	Average
7	2.321	34.13	0.98	10.94	46.05	56.00	-9.95	QP
8	2.448	20.46	0.99	10.94	32.39	56.00	-23.61	Average
9	3.720	34.90	1.00	10.90	46.80	56.00	-9.20	QP
10	3.759	20.83	1.00	10.90	32.73	56.00	-23.27	Average
11	4.574	18.21	1.00	10.87	30.08	56.00	-25.92	Average
12	4.598	30.31	1.00	10.86	42.17	56.00	-13.83	QP

Notes:

1. An initial pre-scan was performed on the live and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

Test Phase: Line



Trace: 21

Site : CCIS Shielding Room
 Condition : FCC PART 15.247 QP LISN LINE
 EUT : LTE mobile phone
 Model : N5501L
 Test Mode : BLE mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: YT
 Remark :

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.178	36.45	0.16	10.77	47.38	64.59	-17.21	QP
2	0.178	24.80	0.16	10.77	35.73	64.59	-28.86	Average
3	0.421	34.65	0.12	10.73	45.50	57.42	-11.92	QP
4	0.461	24.91	0.12	10.74	35.77	56.67	-20.90	Average
5	0.899	22.68	0.13	10.84	33.65	56.00	-22.35	Average
6	0.943	32.04	0.13	10.85	43.02	56.00	-12.98	QP
7	2.190	20.61	0.15	10.95	31.71	56.00	-24.29	Average
8	2.371	32.19	0.15	10.94	43.28	56.00	-12.72	QP
9	3.720	36.62	0.18	10.90	47.70	56.00	-8.30	QP
10	3.720	23.14	0.18	10.90	34.22	56.00	-21.78	Average
11	4.430	27.87	0.19	10.87	38.93	56.00	-17.07	QP
12	4.525	18.25	0.20	10.87	29.32	56.00	-26.68	Average

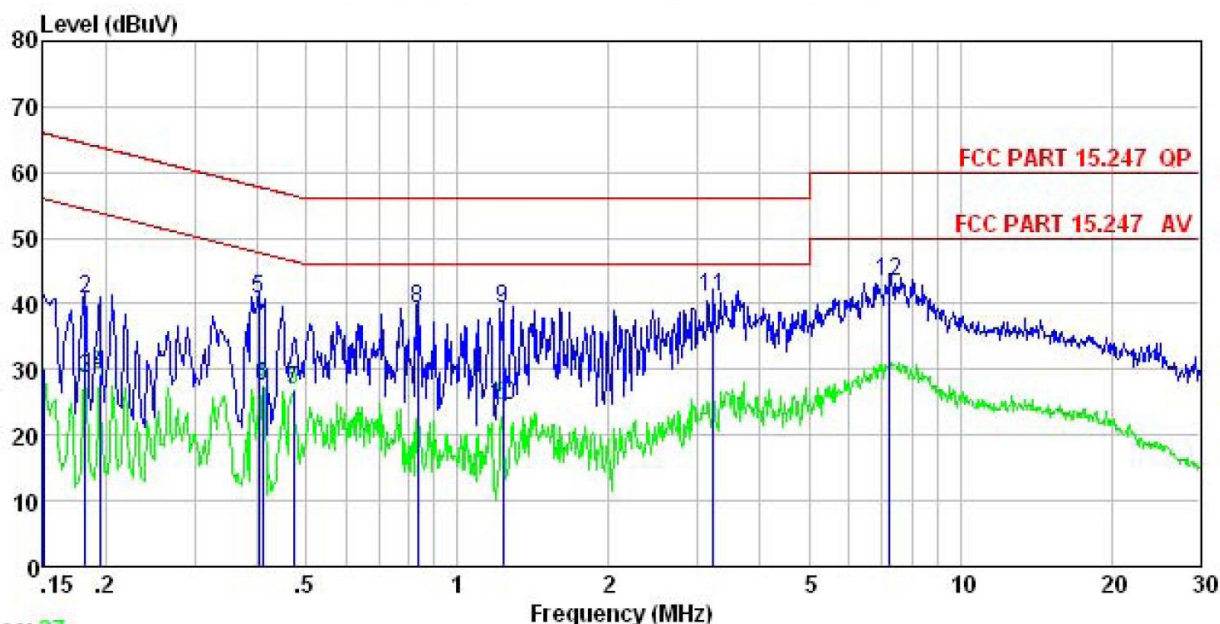
Notes:

1. An initial pre-scan was performed on the live and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

Adapter (2)

Measurement Data:

Test Phase: Neutral



Trace: 27

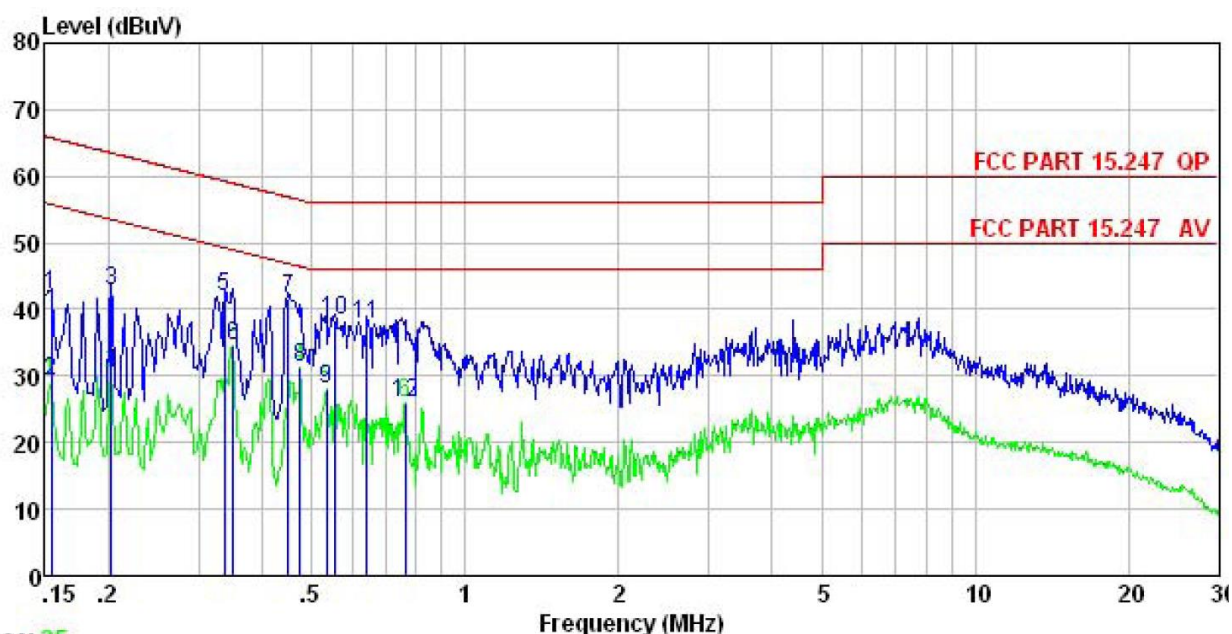
Site : CCIS Shielding Room
 Condition : FCC PART 15.247 QP LISN NEUTRAL
 EUT : LTE mobile phone
 Model : N5501L
 Test Mode : BLE mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: YT
 Remark : HJ-0501000E1-US

	Read	LISN	Cable		Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	18.21	0.99	10.78	29.98	66.00	-36.02 Average
2	0.182	28.93	0.94	10.77	40.64	64.42	-23.78 QP
3	0.182	16.97	0.94	10.77	28.68	64.42	-35.74 Average
4	0.194	17.60	0.93	10.76	29.29	63.84	-34.55 Average
5	0.402	29.17	0.97	10.72	40.86	57.81	-16.95 QP
6	0.410	15.64	0.97	10.72	27.33	57.64	-30.31 Average
7	0.471	15.06	0.97	10.75	26.78	56.49	-29.71 Average
8	0.835	27.33	0.97	10.82	39.12	56.00	-16.88 QP
9	1.229	27.40	0.97	10.90	39.27	56.00	-16.73 QP
10	1.229	12.65	0.97	10.90	24.52	56.00	-31.48 Average
11	3.224	29.22	0.99	10.91	41.12	56.00	-14.88 QP
12	7.252	31.66	1.02	10.81	43.49	60.00	-16.51 QP

Notes:

1. An initial pre-scan was performed on the live and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

Test Phase: Line



Trace: 25

Site : CCIS Shielding Room
 Condition : FCC PART 15.247 QP LISN LINE
 EUT : LTE mobile phone
 Model : N5501L
 Test Mode : BLE mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: YT
 Remark : HJ-0501000E1-US

	Read	LISN	Cable		Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.154	31.14	0.18	10.78	42.10	65.78	-23.68 QP
2	0.154	18.30	0.18	10.78	29.26	65.78	-36.52 Average
3	0.202	31.98	0.15	10.76	42.89	63.54	-20.65 QP
4	0.202	19.49	0.15	10.76	30.40	63.54	-33.14 Average
5	0.337	31.19	0.13	10.73	42.05	59.27	-17.22 QP
6	0.350	23.66	0.12	10.73	34.51	58.96	-24.45 Average
7	0.449	30.70	0.12	10.74	41.56	56.89	-15.33 QP
8	0.474	20.51	0.12	10.75	31.38	56.45	-25.07 Average
9	0.535	17.17	0.12	10.76	28.05	56.00	-27.95 Average
10	0.555	27.53	0.12	10.76	38.41	56.00	-17.59 QP
11	0.641	26.94	0.13	10.77	37.84	56.00	-18.16 QP
12	0.763	14.97	0.13	10.80	25.90	56.00	-30.10 Average

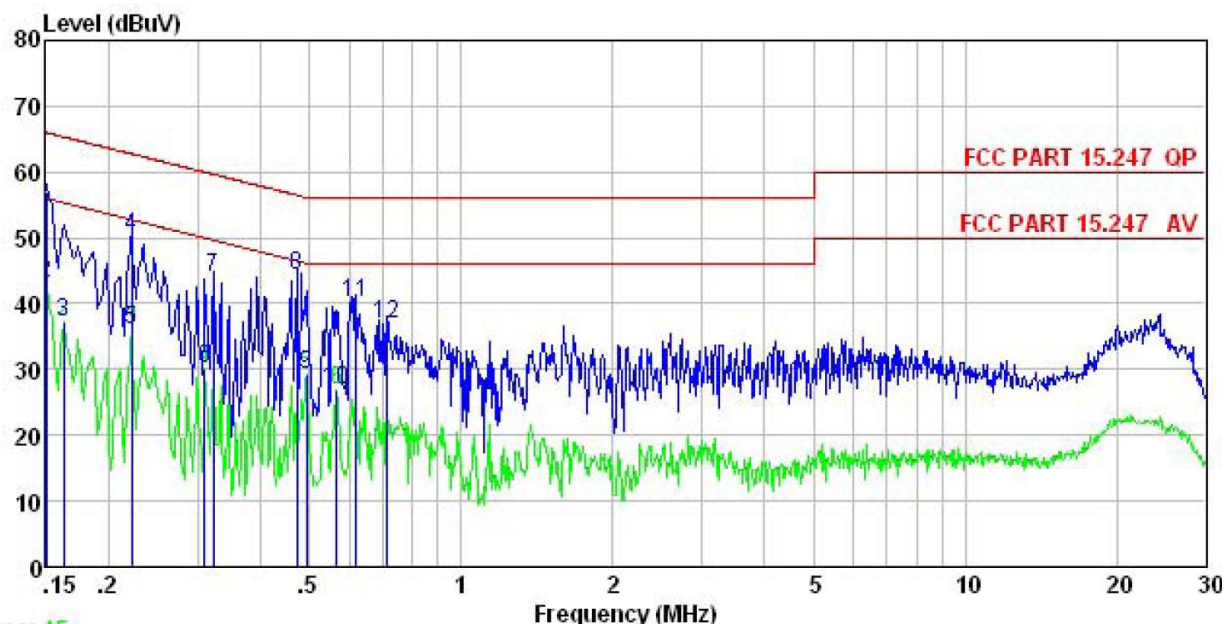
Notes:

1. An initial pre-scan was performed on the live and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

Adapter (3)

Measurement Data:

Test Phase: Neutral



Trace: 45

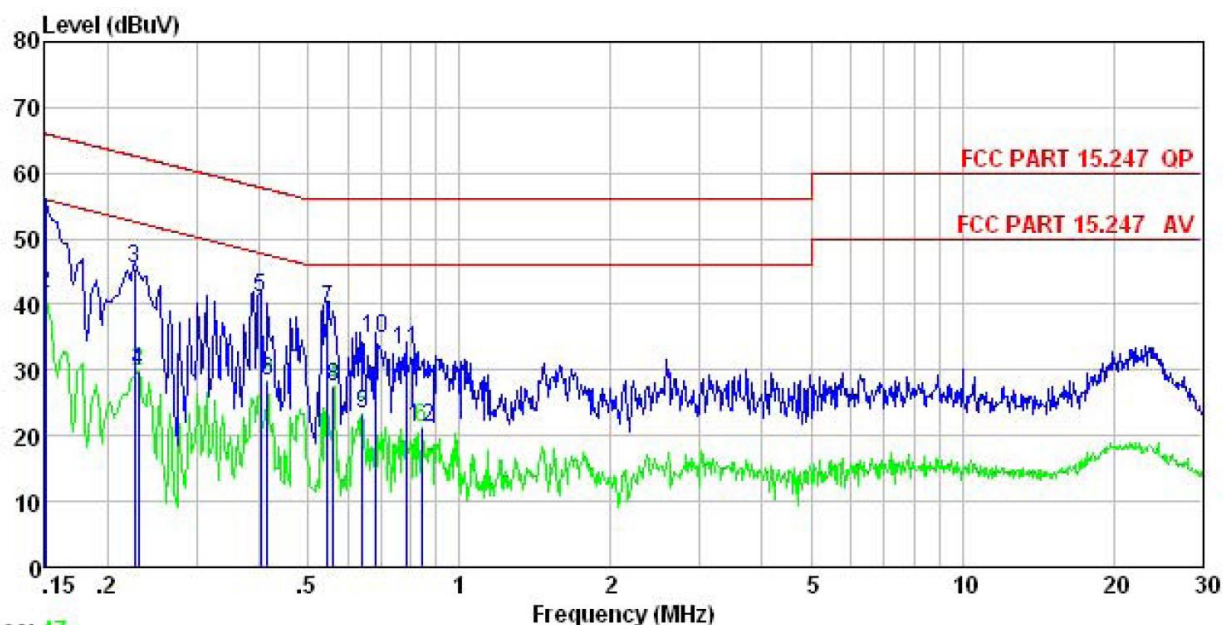
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 Condition : FCC PART 15.247 QP LISN NEUTRAL
 EUT : LTE mobile phone
 Model : M5501L
 Test Mode : BLE mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: YT
 Remark : HJ-0501000B3-EU

	Read	LISN	Cable		Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	45.33	0.99	10.78	57.10	66.00	-8.90 QP
2	0.150	31.36	0.99	10.78	43.13	66.00	-22.87 Average
3	0.162	25.59	0.97	10.77	37.33	65.34	-28.01 Average
4	0.222	38.51	0.93	10.76	50.20	62.74	-12.54 QP
5	0.222	24.29	0.93	10.76	35.98	62.74	-26.76 Average
6	0.310	18.50	0.97	10.74	30.21	59.97	-29.76 Average
7	0.322	32.17	0.97	10.74	43.88	59.66	-15.78 QP
8	0.471	32.43	0.97	10.75	44.15	56.49	-12.34 QP
9	0.494	17.44	0.97	10.76	29.17	56.10	-26.93 Average
10	0.567	15.11	0.97	10.76	26.84	56.00	-29.16 Average
11	0.617	28.45	0.97	10.77	40.19	56.00	-15.81 QP
12	0.712	25.24	0.97	10.78	36.99	56.00	-19.01 QP

Notes:

1. An initial pre-scan was performed on the live and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

Test Phase: Line



Trace: 47

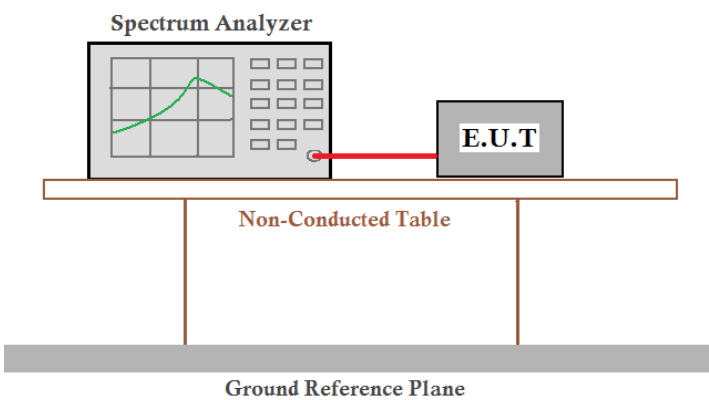
Site : CCIS Shielding Room
 Condition : FCC PART 15.247 QP LISN LINE
 EUT : LTE mobile phone
 Model : N5501L
 Test Mode : BLE mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: YT
 Remark : HJ-0501000B3-EU

	Freq	Read	LISN	Cable	Level	Limit	Over	
	MHz	Level	Factor	Loss	dBuV	Line	Limit	Remark
		dBuV	dB	dB		dBuV	dB	
1	0.150	44.17	0.18	10.78	55.13	66.00	-10.87	QP
2	0.150	30.77	0.18	10.78	41.73	66.00	-24.27	Average
3	0.226	34.62	0.14	10.75	45.51	62.61	-17.10	QP
4	0.230	18.97	0.14	10.75	29.86	62.44	-32.58	Average
5	0.402	30.05	0.12	10.72	40.89	57.81	-16.92	QP
6	0.415	17.53	0.12	10.73	28.38	57.55	-29.17	Average
7	0.546	28.51	0.12	10.76	39.39	56.00	-16.61	QP
8	0.561	16.67	0.12	10.76	27.55	56.00	-28.45	Average
9	0.641	12.54	0.13	10.77	23.44	56.00	-32.56	Average
10	0.683	23.90	0.13	10.77	34.80	56.00	-21.20	QP
11	0.783	22.17	0.13	10.81	33.11	56.00	-22.89	QP
12	0.839	10.25	0.13	10.82	21.20	56.00	-34.80	Average

Notes:

1. An initial pre-scan was performed on the live and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

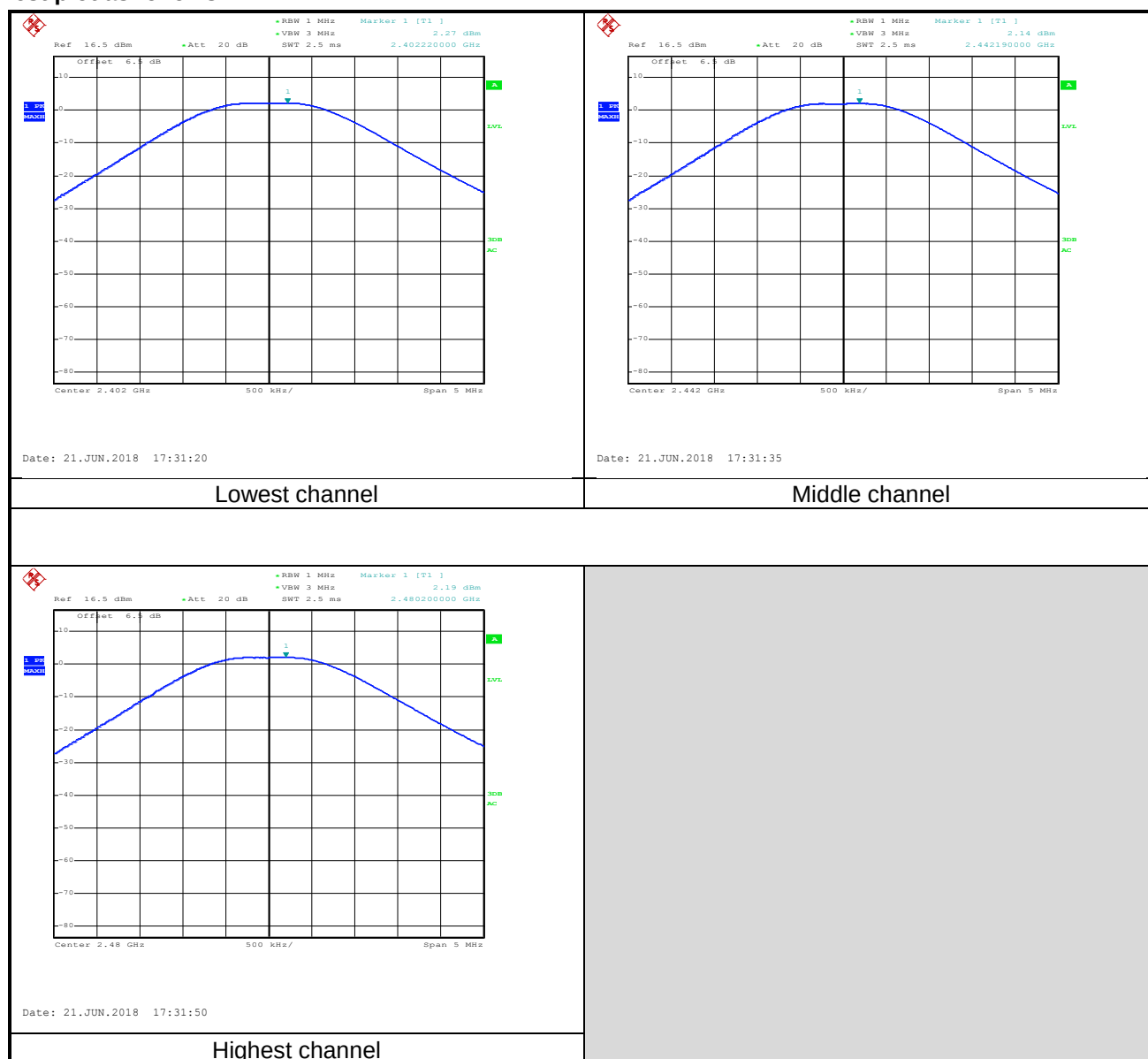
6.3 Conducted Output Power

Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	30dBm
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two legs and sits on a Ground Reference Plane.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

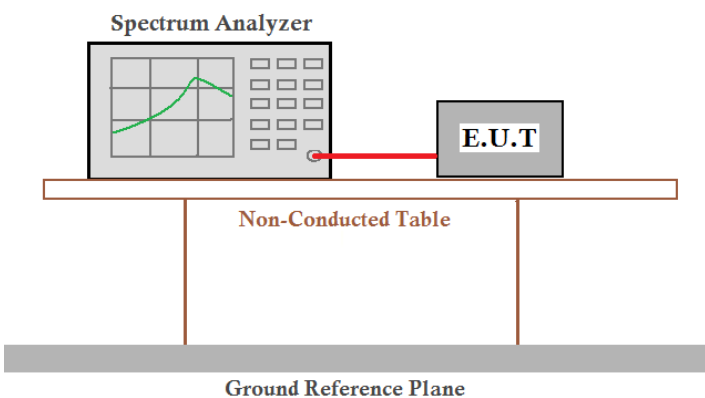
Measurement Data:

Test CH	Maximum Conducted Output Power (dBm)	Limit(dBm)	Result
Lowest	2.27	30.00	Pass
Middle	2.14		
Highest	2.19		

Test plot as follows:



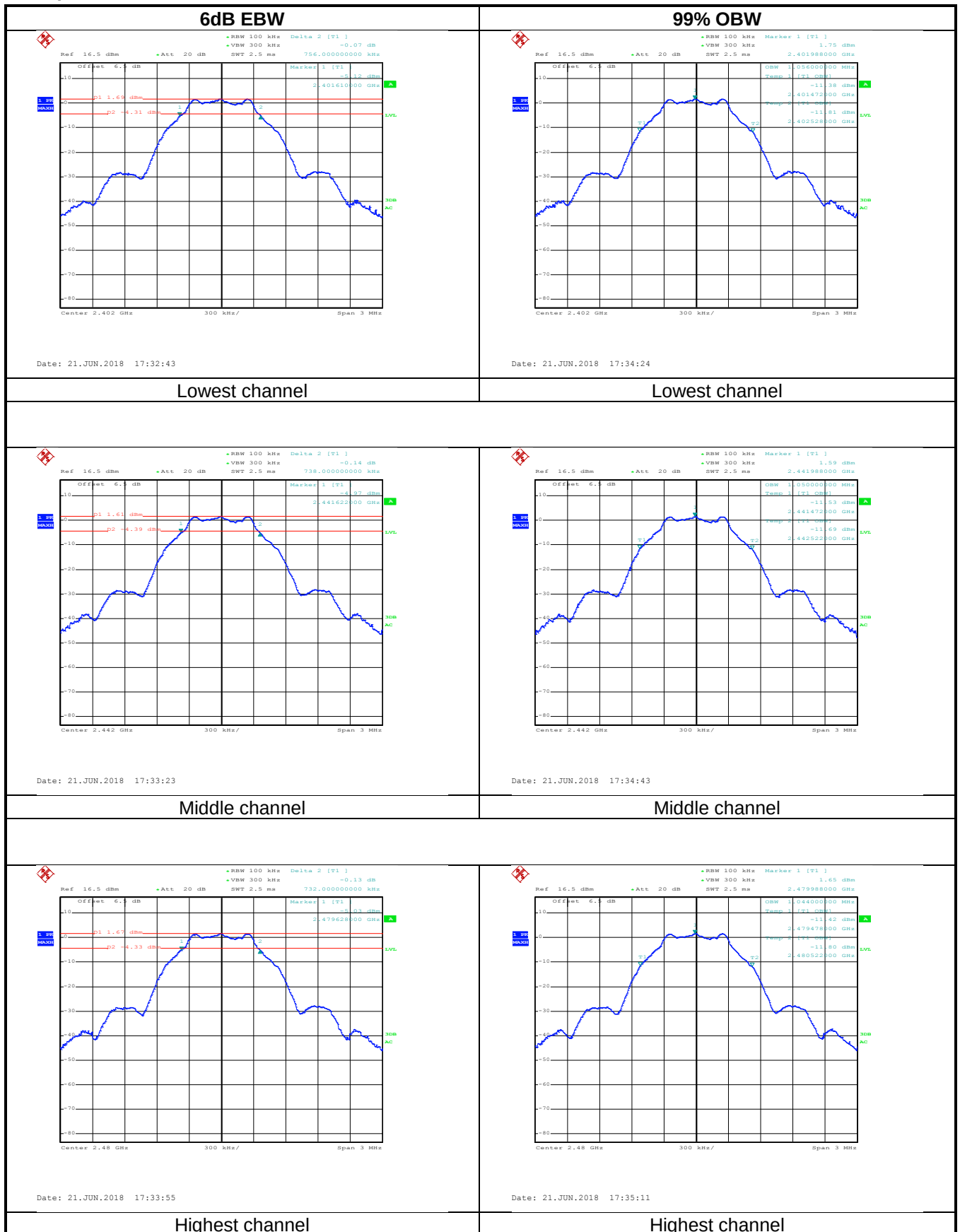
6.4 Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	>500kHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

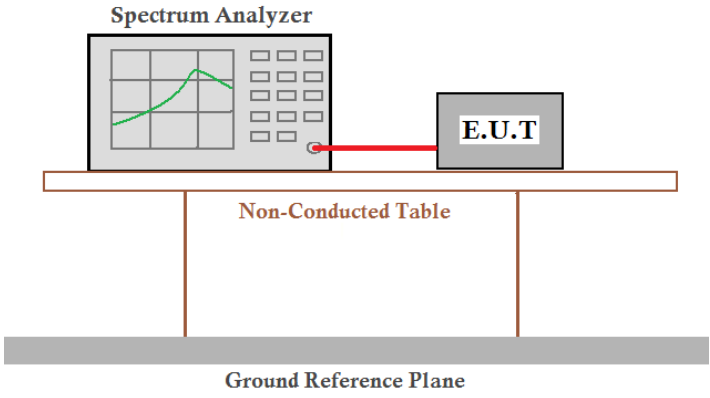
Measurement Data:

Test CH	6dB Emission Bandwidth (MHz)	Limit(kHz)	Result
Lowest	0.756	>500	Pass
Middle	0.738		
Highest	0.732		
Test CH	99% Occupy Bandwidth (MHz)	Limit(kHz)	Result
Lowest	1.056	N/A	N/A
Middle	1.050		
Highest	1.044		

Test plot as follows:



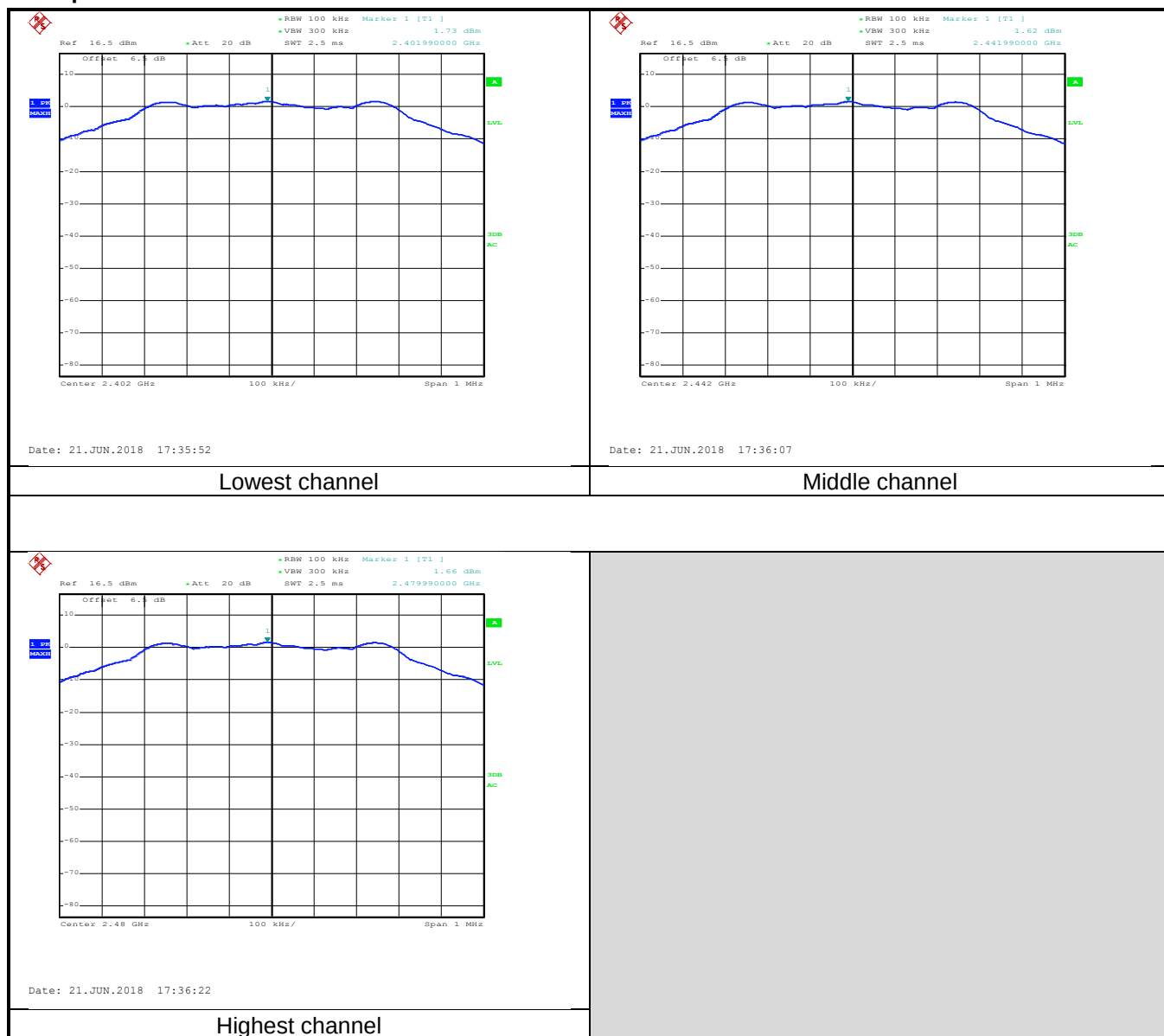
6.5 Power Spectral Density

Test Requirement:	FCC Part 15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	8 dBm
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

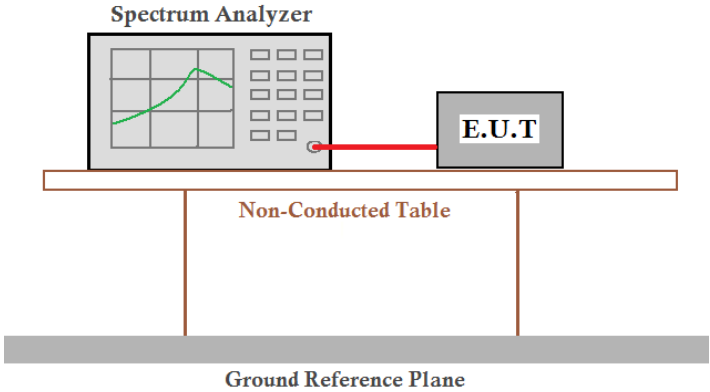
Test CH	Power Spectral Density (dBm)	Limit(dBm)	Result
Lowest	1.73	8.00	Pass
Middle	1.62		
Highest	1.66		

Test plots as follow:

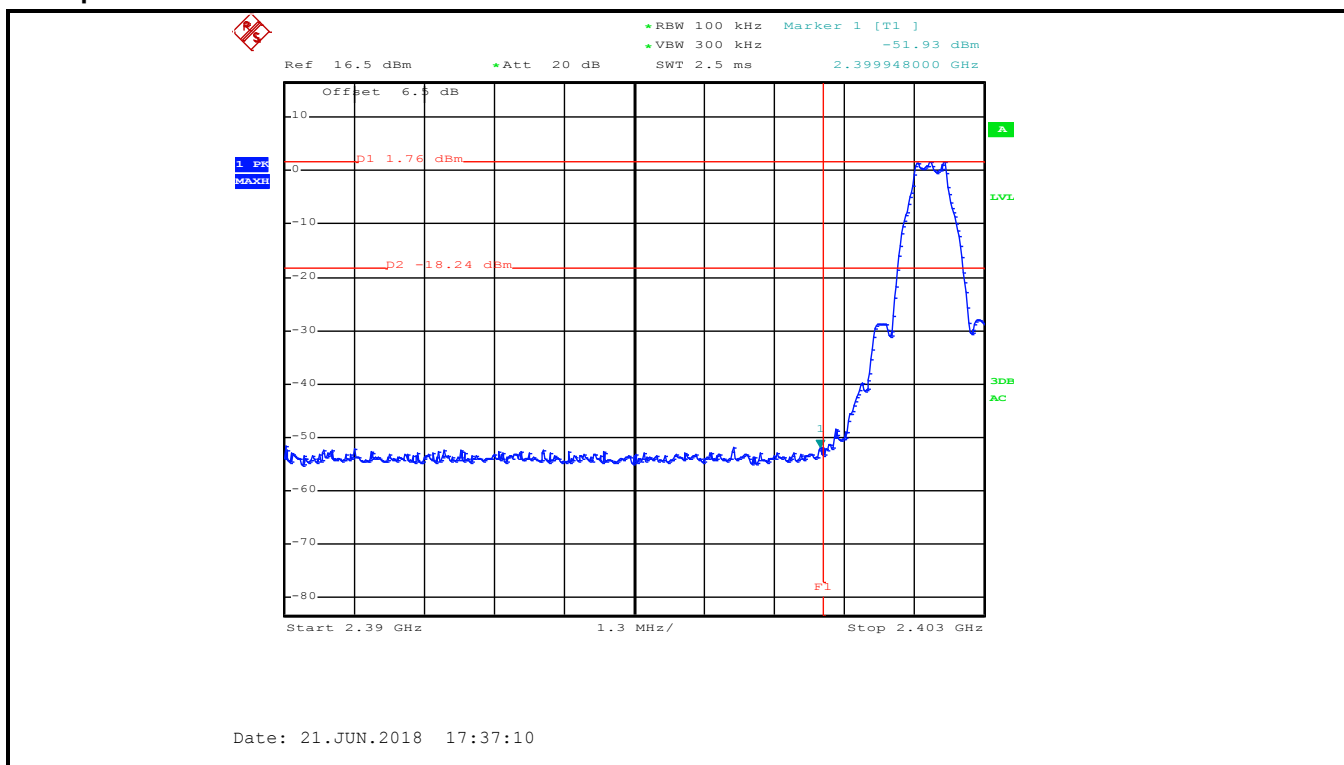


6.6 Band Edge

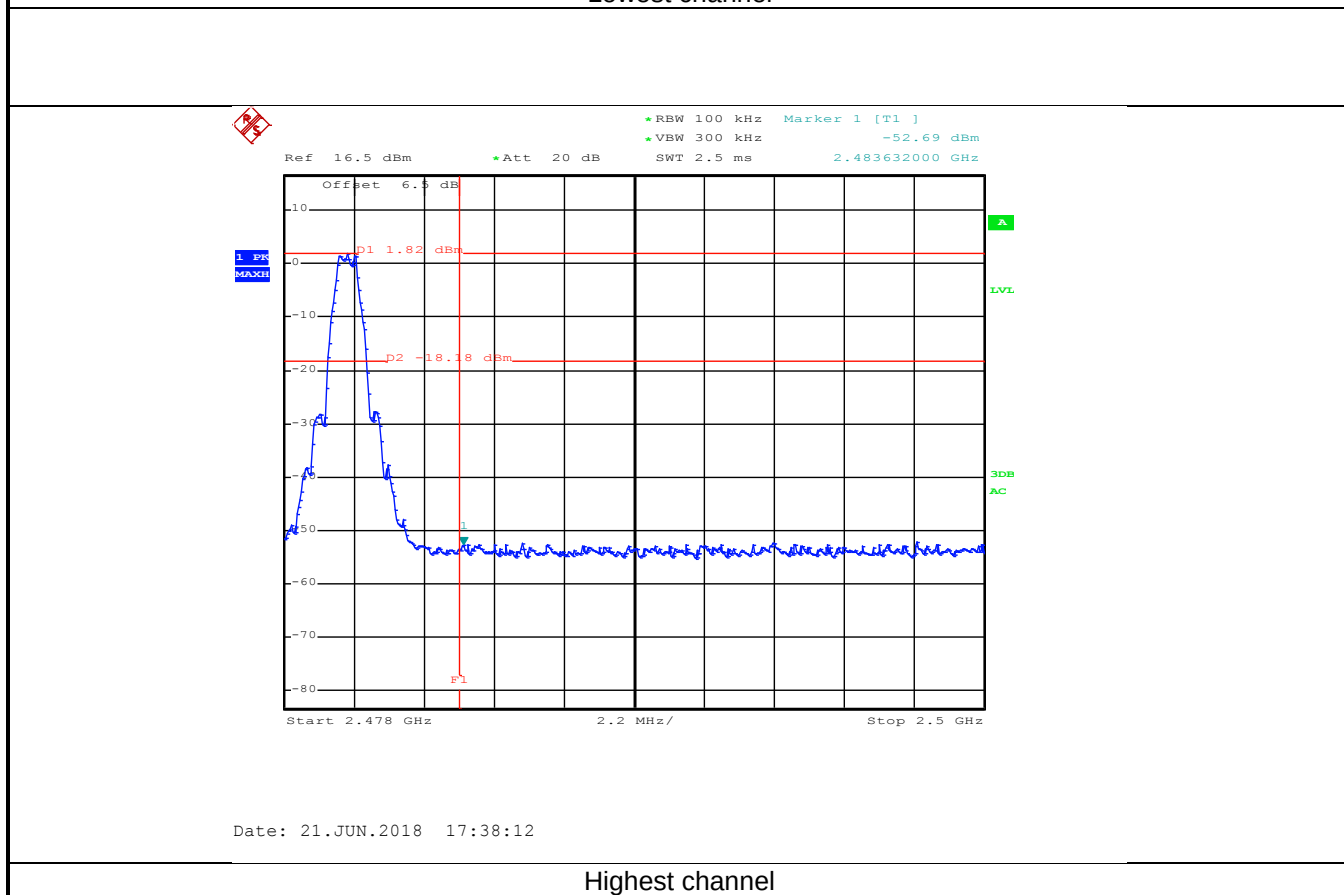
6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T (Equipment Under Test). Both are placed on a Non-Conducted Table, which sits on a Ground Reference Plane.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Test plots as follow:

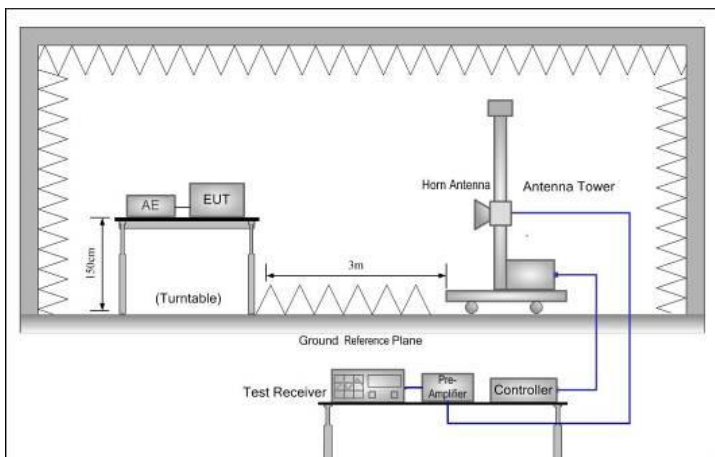


Lowest channel



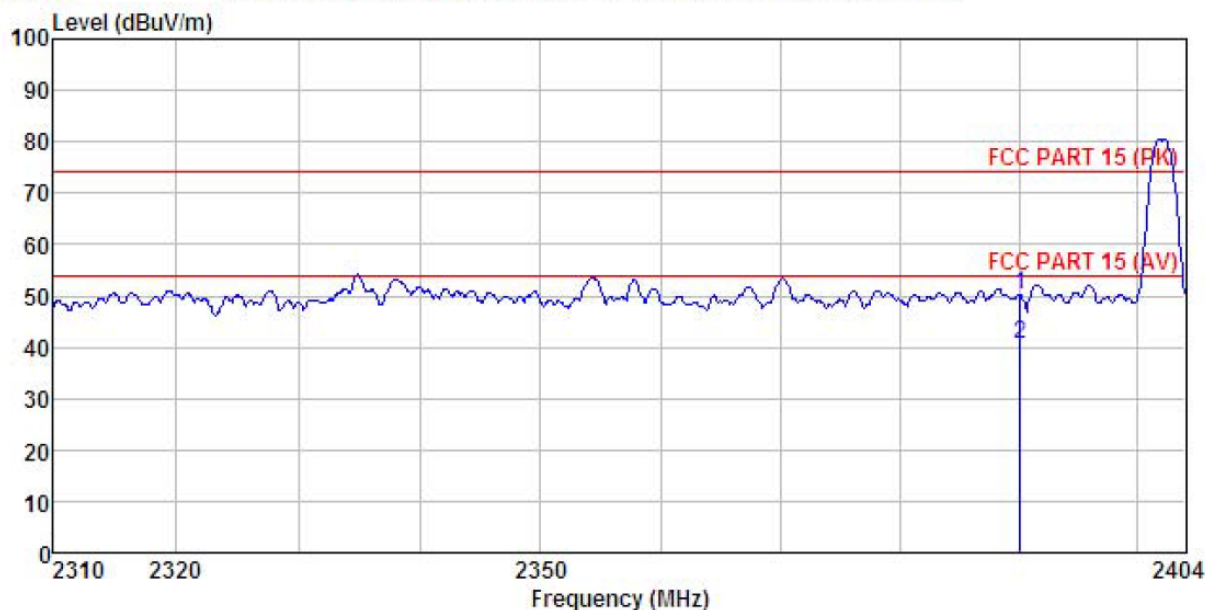
Highest channel

6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.205 and 15.209				
Test Method:	ANSI C63.10: 2013 and KDB 558074				
Test Frequency Range:	2.3GHz to 2.5GHz				
Test Distance:	3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	Above 1GHz		54.00		Average Value
			74.00		Peak Value
Test Procedure:	1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters 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. 4. 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 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.				
Test setup:					
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

Test channel: Lowest channel

Test Polarization: Horizontal



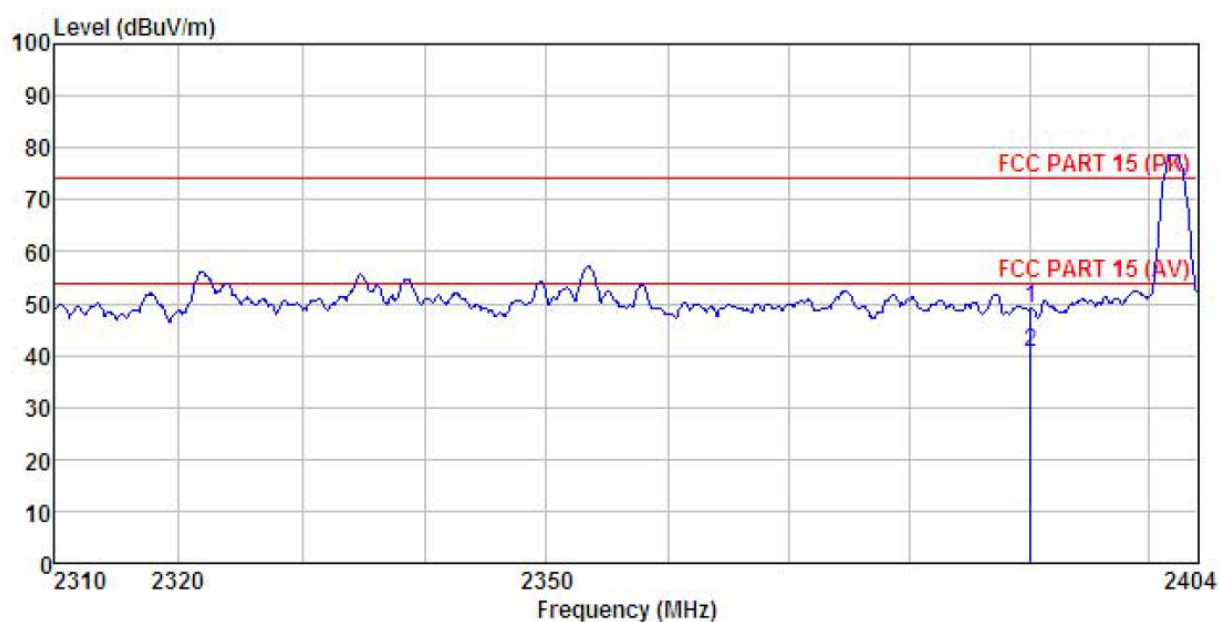
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : BLE-L Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

	ReadAntenna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 2390.000	18.29	27.37	4.69	0.00	50.35	74.00	-23.65 Peak
2 2390.000	8.44	27.37	4.69	0.00	40.50	54.00	-13.50 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : BLE-L Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

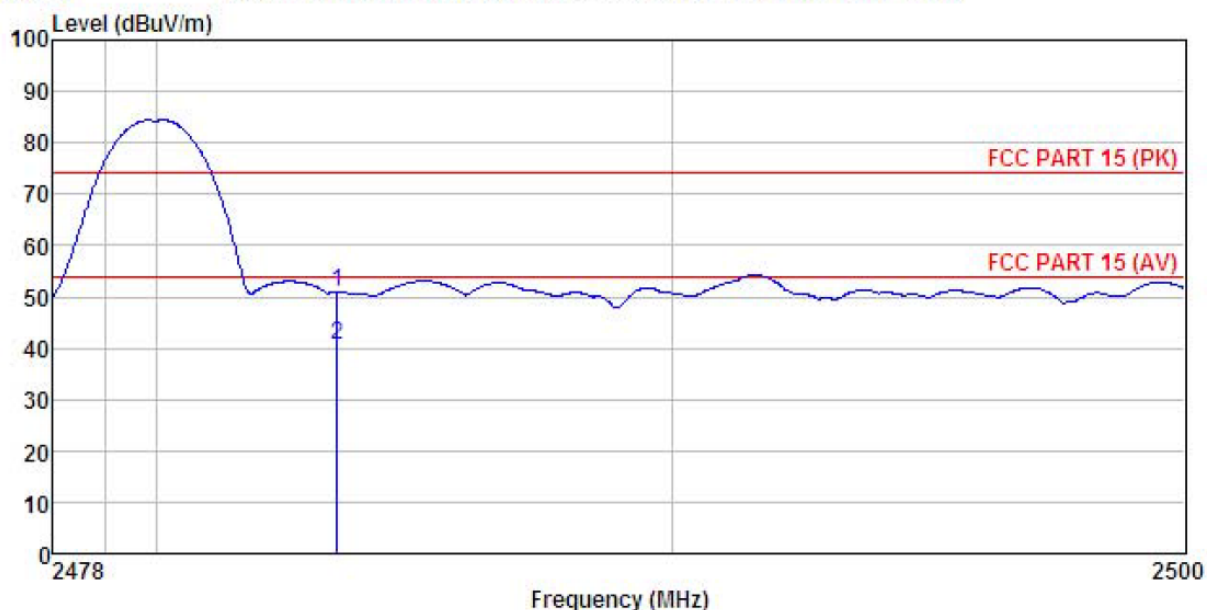
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	16.85	27.37	4.69	0.00	48.91	74.00	-25.09	Peak
2	2390.000	8.44	27.37	4.69	0.00	40.50	54.00	-13.50	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test channel: Highest channel

Test Polarization: Horizontal



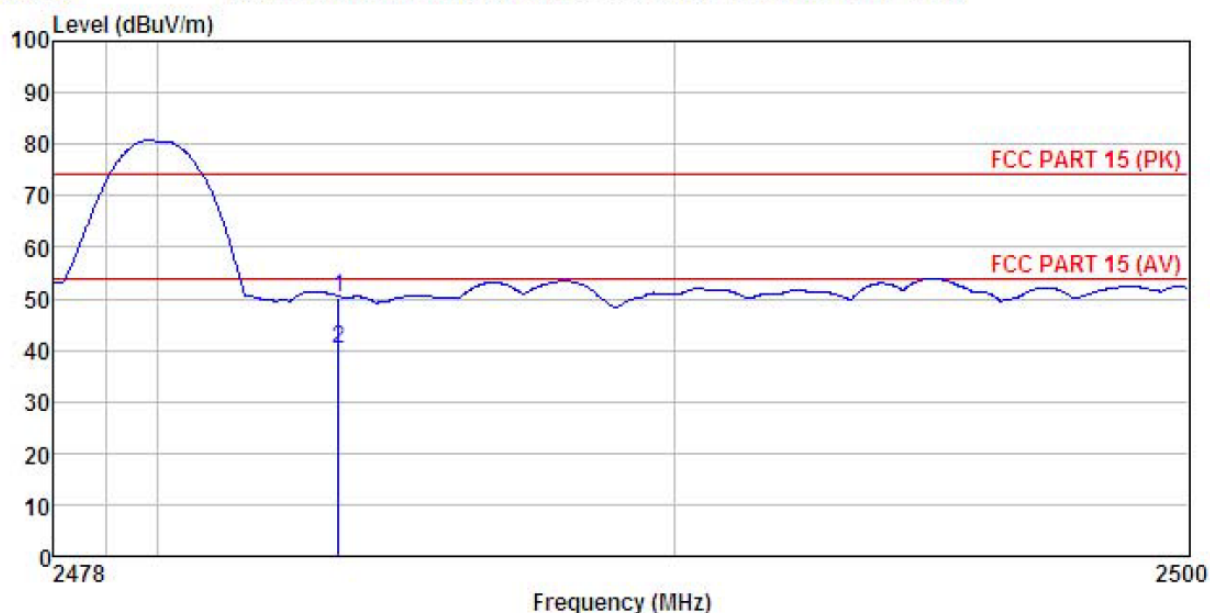
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : BLE-H Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

		ReadAntenna	Cable Preamp		Limit	Over	
Freq	Level	Factor	Loss Factor	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	18.53	27.57	4.81	0.00	50.91	74.00 -23.09 Peak
2	2483.500	8.18	27.57	4.81	0.00	40.56	54.00 -13.44 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : BLE-H Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

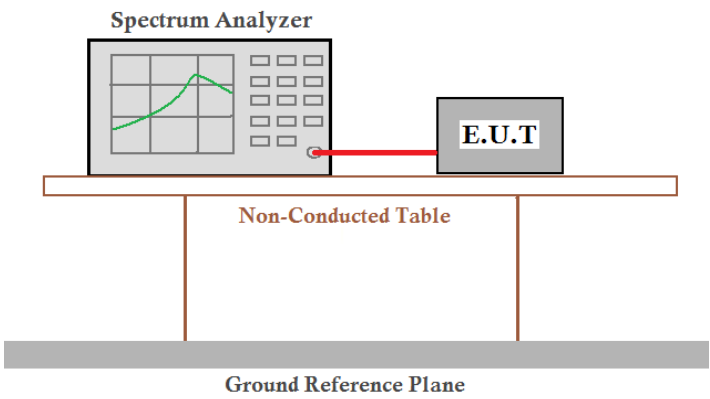
	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	17.84	27.57	4.81	0.00	50.22	74.00	-23.78	Peak
2	2483.500	7.69	27.57	4.81	0.00	40.07	54.00	-13.93	Average

Remark:

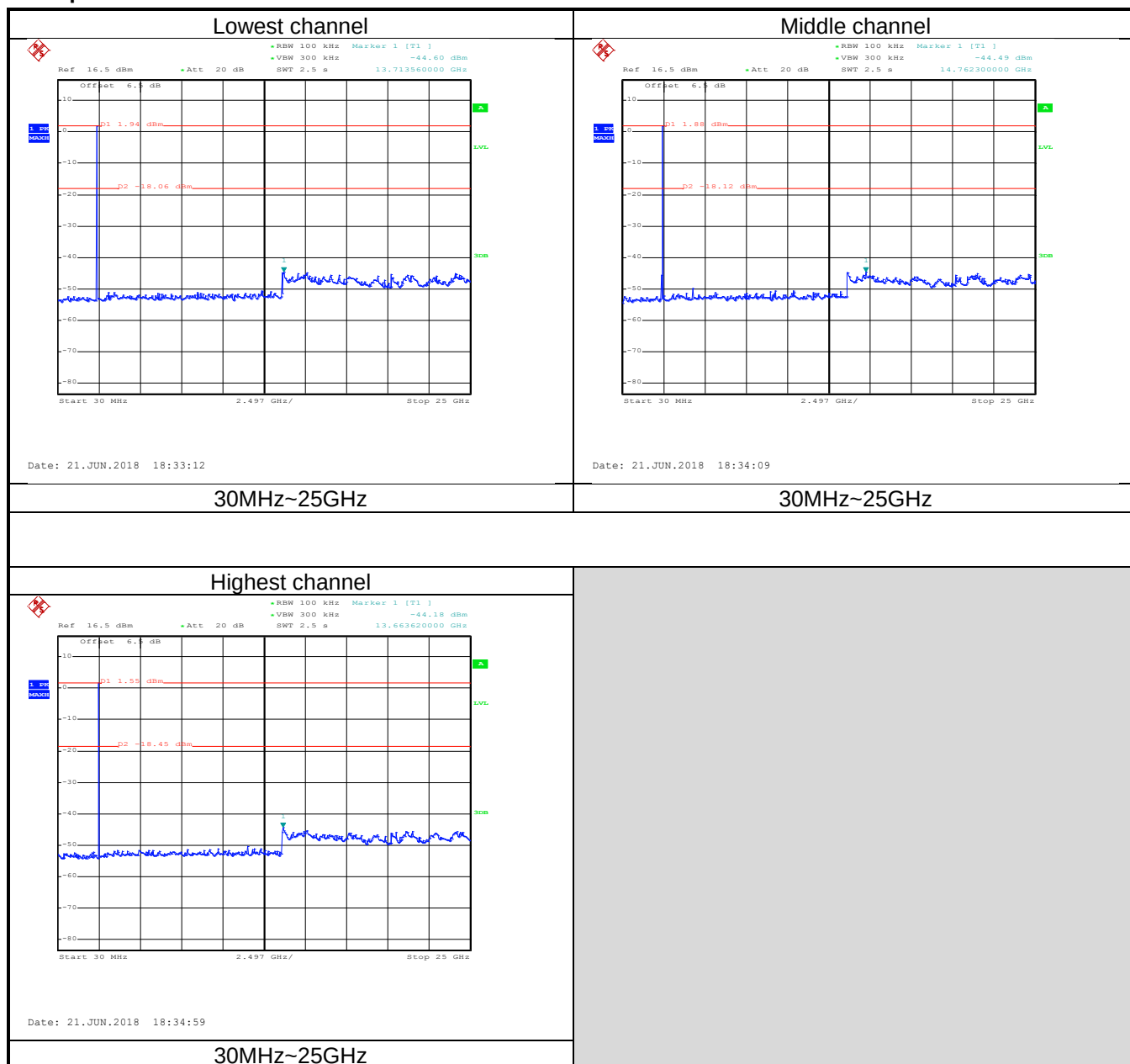
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

6.7 Spurious Emission

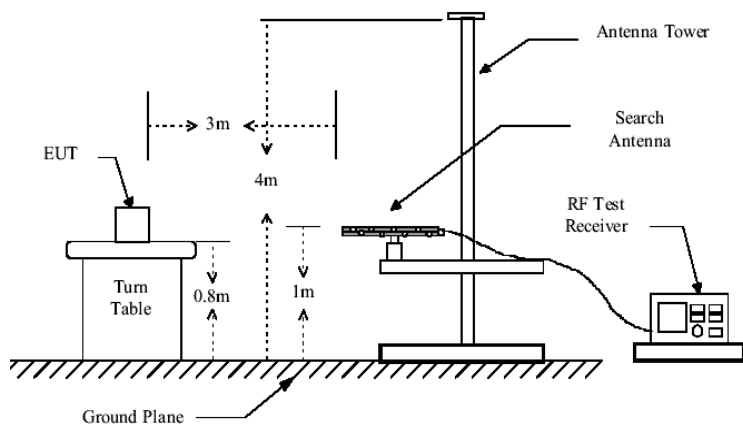
6.7.1 Conducted Emission Method

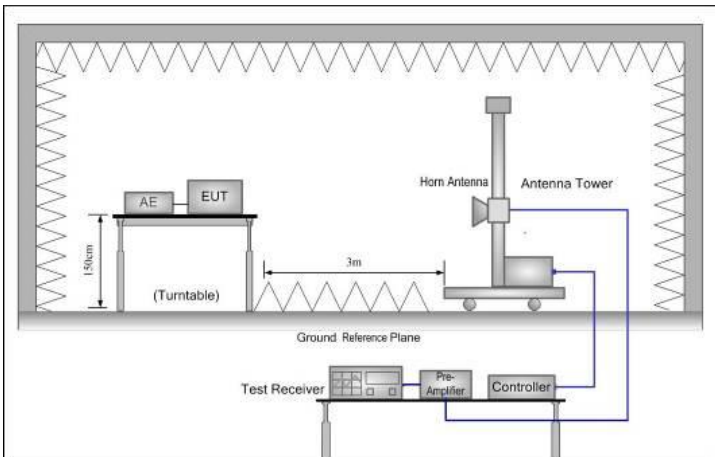
Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Test plot as follows:



6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.205 and 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
Test Distance:	3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		54.0		Average Value
		74.0		Peak Value	
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters 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. 4. 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 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.				
Test setup:	Below 1GHz 				

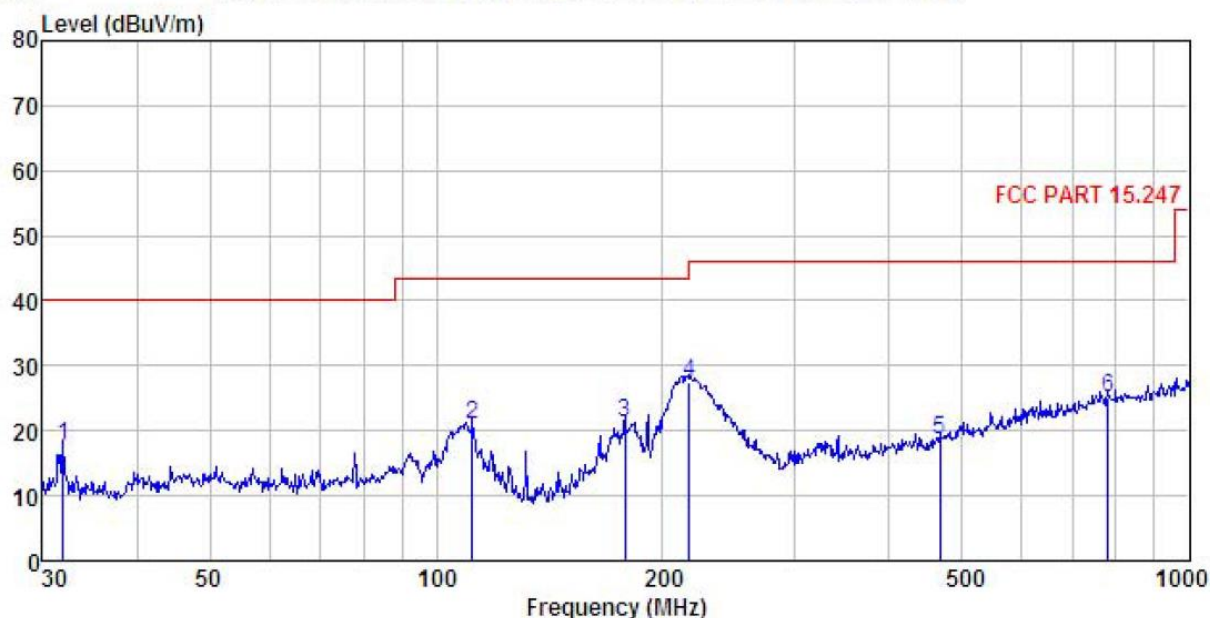
	Above 1GHz 
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 2. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.

Adapter (1)

Measurement Data (worst case):

Below 1GHz:

Test Polarization: Horizontal



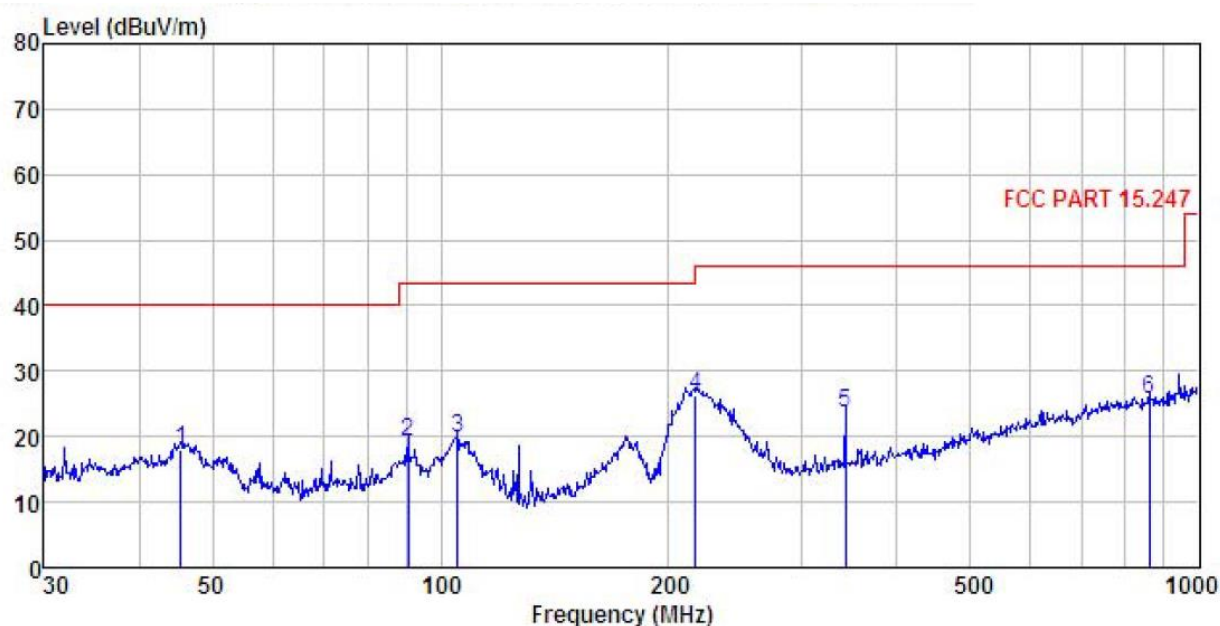
Site : 3m chamber
 Condition : FCC PART 15.247 3m VULB9163(30M2G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : BLE Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

	Freq	Read	Antenna	Cable	Preamp	Limit	Over	
		Level	Factor	Loss	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	31.955	35.69	11.05	0.85	29.97	17.62	40.00	-22.38 QP
2	111.738	36.30	11.92	2.08	29.44	20.86	43.50	-22.64 QP
3	178.133	37.93	9.73	2.71	28.99	21.38	43.50	-22.12 QP
4	216.783	41.27	12.15	2.85	28.73	27.54	46.00	-18.46 QP
5	467.235	27.64	16.60	3.34	28.90	18.68	46.00	-27.32 QP
6	779.607	28.01	21.00	4.35	28.31	25.05	46.00	-20.95 QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15.247 3m VULB9163(30M2G) VERTICAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : BLE Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	dBuV/m	dBuV/m	Limit	Remark
		dBuV	dB/m	dB	dB			dB	
1	45.375	32.89	13.73	1.29	29.86	18.05	40.00	-21.95	QP
2	90.537	36.69	10.10	2.03	29.57	19.25	43.50	-24.25	QP
3	105.272	35.13	12.02	2.00	29.49	19.66	43.50	-23.84	QP
4	216.783	40.13	12.15	2.85	28.73	26.40	46.00	-19.60	QP
5	341.979	34.77	14.45	3.07	28.54	23.75	46.00	-22.25	QP
6	860.035	28.06	21.51	4.10	27.98	25.69	46.00	-20.31	QP

Remark:

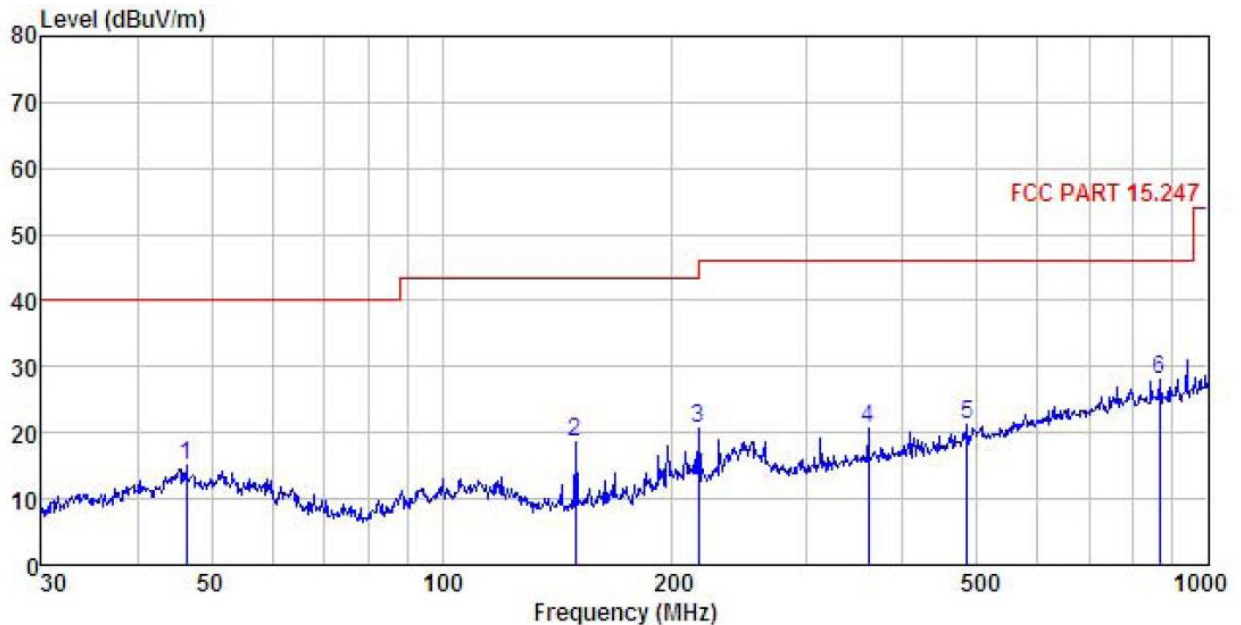
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Adapter (2)

Measurement Data (worst case):

Below 1GHz:

Test Polarization: Horizontal



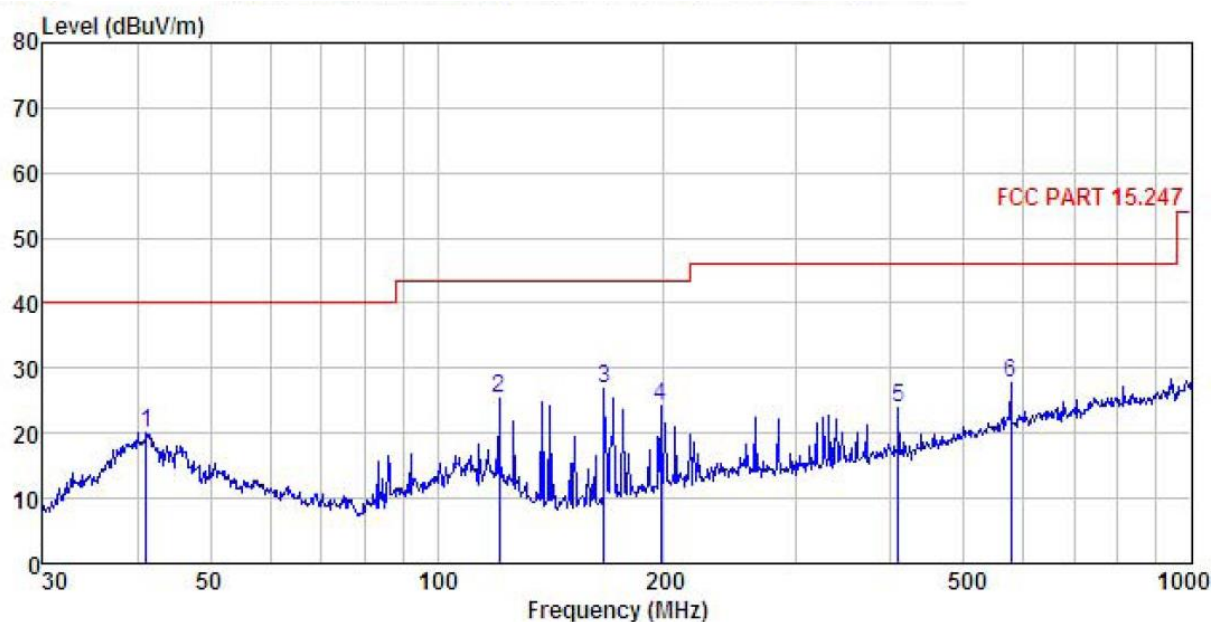
Site : 3m chamber
 Condition : FCC PART 15.247 3m VULB9163(30M2G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : BLE Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK : HJ-0501000E1-US

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	46.340	29.75	13.81	1.28	29.85	14.99	40.00	-25.01	QP
2	149.486	36.79	8.58	2.51	29.22	18.66	43.50	-24.84	QP
3	216.024	34.46	12.12	2.85	28.73	20.70	46.00	-25.30	QP
4	360.448	31.33	14.80	3.10	28.61	20.62	46.00	-25.38	QP
5	485.609	29.50	17.11	3.50	28.93	21.18	46.00	-24.82	QP
6	866.088	30.30	21.63	4.04	27.96	28.01	46.00	-17.99	QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15.247 3m VULB9163(30M2G) VERTICAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : BLE Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK : HJ-0501000E1-US

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	dBuV/m	dBuV/m	Limit	Remark
		dBuV	dB/m	dB	dB			dB	
1	41.132	35.85	13.01	1.24	29.89	20.21	40.00	-19.79	QP
2	120.699	42.37	10.09	2.18	29.39	25.25	43.50	-18.25	QP
3	166.651	44.00	9.30	2.64	29.08	26.86	43.50	-16.64	QP
4	197.893	38.63	11.44	2.86	28.84	24.09	43.50	-19.41	QP
5	408.946	33.87	15.61	3.10	28.80	23.78	46.00	-22.22	QP
6	576.644	34.25	18.65	3.92	29.01	27.81	46.00	-18.19	QP

Remark:

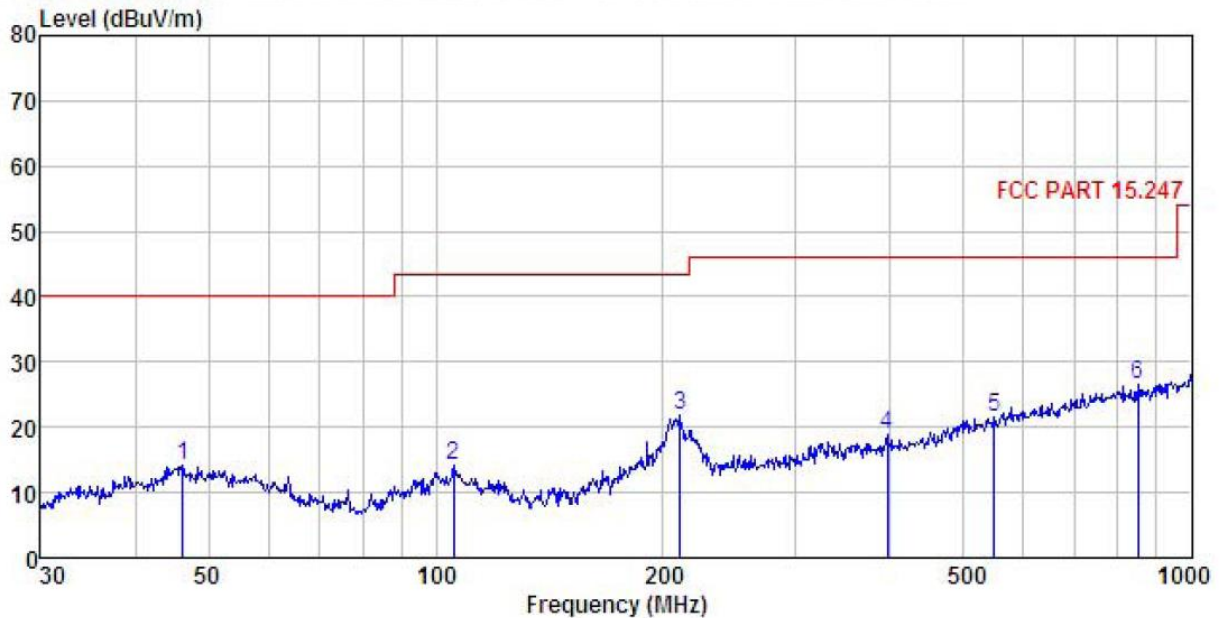
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Adapter (3)

Measurement Data (worst case):

Below 1GHz:

Test Polarization: Horizontal



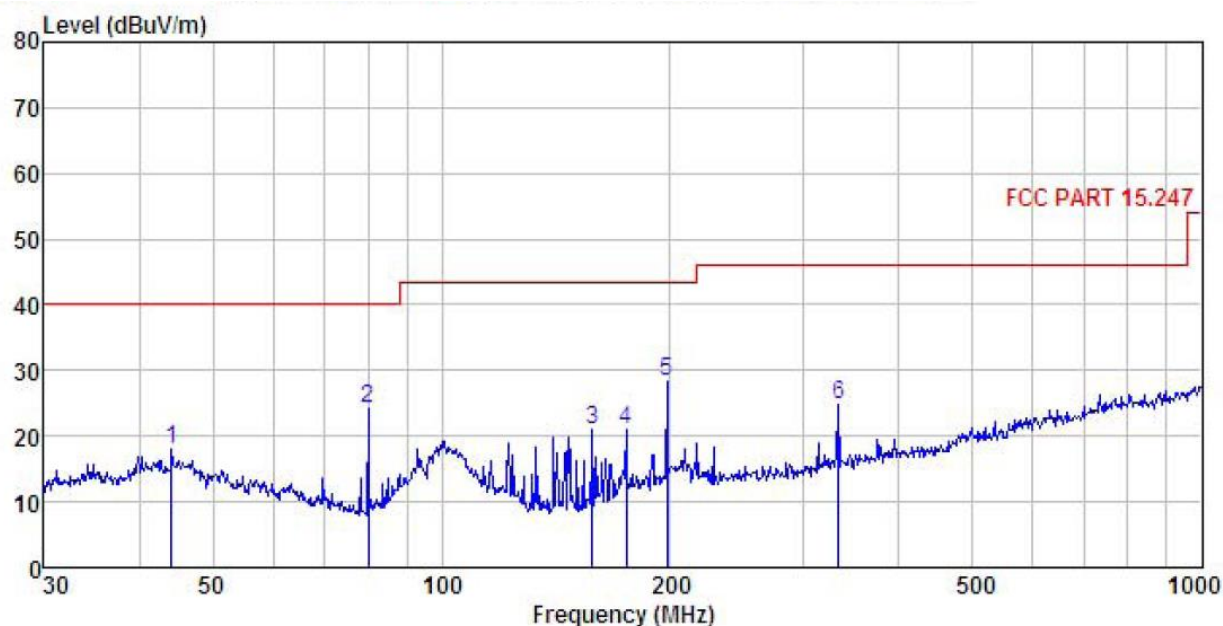
Site : 3m chamber
 Condition : FCC PART 15.247 3m VULB9163(30M2G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : BLE Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK : HJ-0501000B3-EU

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	46.178	28.84	13.80	1.28	29.85	14.07	40.00	-25.93	QP
2	105.642	29.66	12.05	2.00	29.49	14.22	43.50	-29.28	QP
3	210.786	35.91	11.92	2.86	28.76	21.93	43.50	-21.57	QP
4	396.242	29.23	15.44	3.08	28.76	18.99	46.00	-27.01	QP
5	549.020	28.83	17.99	3.88	29.09	21.61	46.00	-24.39	QP
6	851.035	28.94	21.32	4.18	28.00	26.44	46.00	-19.56	QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15.247 3m VULB9163(30M2G) VERTICAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : BLE Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK : HJ-0501000B3-EU

	Read	Antenna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
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MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	44.120	33.15	13.55	1.28	29.87	18.11	40.00	-21.89 QP
2	80.081	44.16	8.12	1.65	29.64	24.29	40.00	-15.71 QP
3	158.112	38.47	9.01	2.57	29.15	20.90	43.50	-22.60 QP
4	175.037	37.63	9.60	2.69	29.01	20.91	43.50	-22.59 QP
5	197.893	42.82	11.44	2.86	28.84	28.28	43.50	-15.22 QP
6	332.519	35.94	14.27	3.04	28.52	24.73	46.00	-21.27 QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Above 1GHz

Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	49.85	30.85	6.80	41.81	45.69	74.00	-28.31	Vertical
4804.00	49.85	30.85	6.80	41.81	45.69	74.00	-28.31	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	37.23	30.85	6.80	41.81	33.07	54.00	-20.93	Vertical
4804.00	38.95	30.85	6.80	41.81	34.79	54.00	-19.21	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4884.00	48.21	31.20	6.86	41.84	44.43	74.00	-29.57	Vertical
4884.00	47.19	31.20	6.86	41.84	43.41	74.00	-30.59	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4884.00	39.62	31.20	6.86	41.84	35.84	54.00	-18.16	Vertical
4884.00	38.44	31.20	6.86	41.84	34.66	54.00	-19.34	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	48.12	31.63	6.91	41.87	44.79	74.00	-29.21	Vertical
4960.00	47.69	31.63	6.91	41.87	44.36	74.00	-29.64	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	39.62	31.63	6.91	41.87	36.29	54.00	-17.71	Vertical
4960.00	37.85	31.63	6.91	41.87	34.52	54.00	-19.48	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								