

FCC Test Report (Co-Located)

Report No.: RF181019C22

Test Model: NCA-1515A

Series Model: NCA-1515xxxxxxx, LUNA-D200xxxxxxx (Where x can be 0-9, A-Z, a-z, any alphanumeric character or blank)

Received Date: Oct. 19, 2018

Test Date: Nov. 17 ~ Nov. 23, 2018

Issued Date: Nov. 30, 2018

Applicant: Compex Systems Pte Ltd

Address: No. 9 Harrison Road, Harrison Industrial Building #05-01, Singapore 369651

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)

**FCC Registration/
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
RF181019C22	Original release	Nov. 30, 2018

1 Certificate of Conformity

Product: Network Appliance Platform

Brand: Lanner

Test Model: NCA-1515A

Series Model: NCA-1515xxxxxxx, LUNA-D200xxxxxxx (Where x can be 0-9, A-Z, a-z, any alphanumeric character or blank)

Sample Status: Engineering sample

Applicant: Compex Systems Pte Ltd

Test Date: Nov. 17 ~ Nov. 23, 2018

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)

47 CFR FCC Part 15, Subpart E (Section 15.407)

FCC Part 22, Subpart H

FCC Part 24, Subpart E

FCC Part 27, Subpart C, D, F, H, L, M

ANSI 63.26-2015

ANSI C63.10-2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Celine Chou , **Date:** Nov. 30, 2018
Celine Chou / Senior Specialist

Approved by : Bruce Chen , **Date:** Nov. 30, 2018
Bruce Chen / Project Engineer

2 Summary of Test Results

Applied Standard	47 CFR FCC Part 15, Subpart C (Section 15.247) 47 CFR FCC Part 15, Subpart E (Section 15.407) FCC Part 22, Subpart H FCC Part 24, Subpart E FCC Part 27, Subpart C, D, F, H, L, M ANSI 63.26-2015 ANSI C63.10-2013		
FCC Clause	Test Item	Result	Remarks
15.205 / 15.209 / 15.247(d) / 15.407(b) / (1/2/3/4(i/ii)/6)	Radiated Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -1.0dB at 2483.50MHz.
2.1053 / 22.917	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -15.10dB at 831.50MHz.
2.1053 / 24.238	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -10.30dB at 1855.00MHz.
2.1053 / 27.53(a) / 27.53(c) / 27.53(h) / 27.53(m)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -6.20dB at 1732.50MHz.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.63 dB
	200MHz ~ 1000MHz	3.64 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Network Appliance Platform			
Brand	Lanner			
Test Model	NCA-1515A			
Series Model	NCA-1515xxxxxxx, LUNA-D200xxxxxxx (Where x can be 0-9, A-Z, a-z, any alphanumeric character or blank)			
Model Difference	Refer to Note			
Status of EUT	Engineering sample			
Power Supply Rating	12Vdc from adapter			
Modulation Type	WLAN	CCK, DQPSK, DBPSK for DSSS 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM		
	WCDMA	BPSK, QPSK		
	LTE	QPSK, 16QAM		
Modulation Technology	WLAN	DSSS, OFDM		
Transfer Rate	WLAN	802.11b:11/5.5/2/1Mbps 802.11a/g: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 300Mbps 802.11ac: up to 867Mbps		
Operating Frequency	WLAN	2.4GHz: 2412 ~ 2462MHz 5.0GHz: 5180~5240MHz, 5260~5320MHz, 5500~5700MHz, 5745~5825MHz		
	WCDMA	WCDMA Band 2	1852.4MHz ~ 1907.6MHz	
		WCDMA Band 4	1712.4MHz ~ 1752.6MHz	
		WCDMA Band 5	826.4MHz ~ 846.6MHz	
	LTE	LTE Band 2	Channel Bandwidth 1.4MHz	1850.7MHz ~ 1909.3MHz
			Channel Bandwidth 3MHz	1851.5MHz ~ 1908.5MHz
			Channel Bandwidth 5MHz	1852.5MHz ~ 1907.5MHz
			Channel Bandwidth 10MHz	1855.0MHz ~ 1905.0MHz
			Channel Bandwidth 15MHz	1857.5MHz ~ 1902.5MHz
			Channel Bandwidth 20MHz	1860.0MHz ~ 1900.0MHz
		LTE Band 4	Channel Bandwidth 1.4MHz	1710.7MHz ~ 1754.3MHz
			Channel Bandwidth 3MHz	1711.5MHz ~ 1753.5MHz
			Channel Bandwidth 5MHz	1712.5MHz ~ 1752.5MHz
Channel Bandwidth 10MHz			1715.0MHz ~ 1750.0MHz	
		Channel Bandwidth 15MHz	1717.5MHz ~ 1747.5MHz	
		Channel Bandwidth 20MHz	1720.0MHz ~ 1745.0MHz	

Operating Frequency	LTE	LTE Band 5	Channel Bandwidth 1.4MHz	824.7MHz ~ 848.3MHz
			Channel Bandwidth 3MHz	825.5MHz ~ 847.5MHz
			Channel Bandwidth 5MHz	826.5MHz ~ 846.5MHz
			Channel Bandwidth 10MHz	829.0MHz ~ 844.0MHz
		LTE Band 7	Channel Bandwidth 5MHz	2502.5MHz ~ 2567.5MHz
			Channel Bandwidth 10MHz	2505.0MHz ~ 2565.0MHz
			Channel Bandwidth 15MHz	2507.5MHz ~ 2562.5MHz
			Channel Bandwidth 20MHz	2510.0MHz ~ 2560.0MHz
		LTE Band 12	Channel Bandwidth 1.4MHz	699.7MHz ~ 715.3MHz
			Channel Bandwidth 3MHz	700.5MHz ~ 714.5MHz
			Channel Bandwidth 5MHz	701.5MHz ~ 713.5MHz
			Channel Bandwidth 10MHz	704.0MHz ~ 711.0MHz
		LTE Band 13	Channel Bandwidth 5MHz	779.5MHz ~ 784.5MHz
			Channel Bandwidth 10MHz	782.0MHz
		LTE Band 25	Channel Bandwidth 1.4MHz	1850.7MHz ~ 1914.3MHz
			Channel Bandwidth 3MHz	1851.5MHz ~ 1913.5MHz
			Channel Bandwidth 5MHz	1852.5MHz ~ 1912.5MHz
			Channel Bandwidth 10MHz	1855.0MHz ~ 1910.0MHz
			Channel Bandwidth 15MHz	1857.5MHz ~ 1907.5MHz
			Channel Bandwidth 20MHz	1860.0MHz ~ 1905.0MHz
		LTE Band 26	Channel Bandwidth 1.4MHz	814.7MHz ~ 848.3MHz
			Channel Bandwidth 3MHz	815.5MHz ~ 847.5MHz
			Channel Bandwidth 5MHz	816.5MHz ~ 846.5MHz
			Channel Bandwidth 10MHz	819.0MHz ~ 844.0MHz
			Channel Bandwidth 15MHz	821.5MHz ~ 841.5MHz
		LTE Band 30	Channel Bandwidth 5MHz	2307.5MHz ~ 2312.5MHz
			Channel Bandwidth 10MHz	2310.0MHz
		LTE Band 41	Channel Bandwidth 5MHz	2498.5MHz ~ 2687.5MHz
			Channel Bandwidth 10MHz	2501.0MHz ~ 2685.0MHz
			Channel Bandwidth 15MHz	2503.5MHz ~ 2682.5MHz
			Channel Bandwidth 20MHz	2506.0MHz ~ 2680.0MHz

Number of Channel	WLAN	2412 ~ 2462MHz: 802.11b, 802.11g, 802.11n (HT20): 11 802.11n (HT40): 7 5180~5240MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5260~5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5500~5700MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 11 802.11n (HT40), 802.11ac (VHT40): 5 802.11ac (VHT80): 2 5745~5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 5 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1
Antenna Type	Refer to note	
Antenna Connector	Refer to note	
Accessory Device	Adapter	
Data Cable Supplied	NA	

Note:

1. All models are listed as below.

Brand	Model	Description
Lanner	NCA-1515xxxxxxx, LUNA-D200xxxxxxx 1. Where x can be 0-9, A-Z, a-z, any alphanumeric character or blank 2. For marketing purpose only.	Type A LOM + 2 port 1G fiber +6 port 1G copper , max.2.20 GHz
		Type B LOM + 2 port 1G fiber +4 port 1G copper , max.2.20 GHz
		Type C LOM + 0 port 1G fiber +4 port 1G copper , max.2.20 GHz

* The model of the NCA-1515A (Type A) was chosen for final test.

2. The following modules can be chosen to be configured in the EUT.

Brand Name	Model No.	FCC ID
COMPEX	WLE600VX	TK4WLE600VX
Ampak	AP6356SDPB	ZQ6-AP6356SDXX
Sierra	EM7455	N7NEM7455

3. The module (brand: COMPEX, model: WLE600VX) might be collocated in this EUT. The module provides 2 completed transmitters and 2 receivers.

Modulation Mode	TX Function
802.11b	1TX
802.11g	1TX
802.11a	1TX
802.11n (HT20)	2TX
802.11n (HT40)	2TX
802.11ac (VHT20)	2TX
802.11ac (VHT40)	2TX
802.11ac (VHT80)	2TX

4. The module (brand: Ampak, model: AP6356SDPB) might be collocated in this EUT. The module provides 2 completed transmitters and 2 receivers.

Modulation Mode	TX Function
802.11b	1TX
802.11g	2TX
802.11a	2TX
802.11n (HT20)	2TX
802.11n (HT40)	2TX
802.11ac (VHT20)	2TX
802.11ac (VHT40)	2TX
802.11ac (VHT80)	2TX

5. The EUT uses following adapters.

Adapter 1	
Brand	FSP GROUP INC.
Model	FSP036-RBBN2
Input Power	100-240Vac, 1.2A, 50-60Hz
Output Power	12Vdc, 3.0A
Power Line	1.45m DC cable with one core attached on adapter

Adapter 2	
Brand	FSP GROUP INC.
Model	FSP060-DIBAN2
Input Power	100-240Vac~, 1.5A, 50-60Hz
Output Power	12Vdc, 5.0A MAX
Power Line	1.2m DC cable with one core attached on adapter

* Adapter 2 was chosen for final test and presented in the test report.

6. The EUT uses following antennas.

WLAN Antenna											
Ant. Type	Dipole										
Connector	SMA Male R										
Frequency (GHz)	2.4	2.45	2.5	5.15	5.25	5.35	5.47	5.6	5.725	5.785	5.85
Antenna Gain (dBi)	1.26	1.6	1.45	1.29	1.6	1.53	1.79	1.48	1.19	1.42	1.94

WWAN Antenna											
Ant. Type	Dipole										
Connector	SMA Male										
Frequency (GHz)	0.698	0.704	0.746	0.757	0.787	0.824	0.836	0.849	0.869	0.880	0.894
Antenna Gain (dBi)	1.37	1.49	0.93	1.61	1.66	2.98	2.46	3.20	2.11	1.22	0.53
Frequency (GHz)	0.900	0.915	0.925	0.940	0.960	1.560	1.565	1.570	1.575	1.580	1.585
Antenna Gain (dBi)	0.56	0.70	1.25	1.13	1.40	1.91	2.19	2.73	2.89	2.43	2.31
Frequency (GHz)	1.590	1.602	1.710	1.732	1.750	1.755	1.785	1.800	1.840	1.850	1.880
Antenna Gain (dBi)	2.53	2.13	1.04	1.25	1.40	1.62	1.36	1.39	0.55	0.51	0.65
Frequency (GHz)	1.910	1.920	1.930	1.950	1.960	1.980	1.990	2.110	2.132	2.140	2.155
Antenna Gain (dBi)	1.56	1.92	2.53	2.96	2.69	2.75	2.50	2.48	3.02	2.38	2.59
Frequency (GHz)	2.170	2.305	2.345	2.390	2.500	2.535	2.570	2.620	2.655	2.690	
Antenna Gain (dBi)	2.30	1.75	2.27	2.20	0.86	-0.27	0.23	0.23	0.44	-0.28	

7. 2.4GHz and 5GHz technology cannot transmit at same time.

8. Spurious emission of the simultaneous operation (WLAN 2.4GHz Band+WLAN 5.0GHz Band+WWAN) has been evaluated and no non-compliance was found.

3.2 Description of Test Modes

For WLAN:

For 2.4GHz

11 channels are provided for 802.11b, 802.11g and 802.11n (HT20):

Channel	Frequency	Channel	Frequency
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

7 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
3	2422MHz	7	2442MHz
4	2427MHz	8	2447MHz
5	2432MHz	9	2452MHz
6	2437MHz		

5180~5240MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
42	5210 MHz

5260~5320MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
58	5290 MHz

5500~5700MHz:

11 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz		

5 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz		

2 channels are provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	122	5610 MHz

5745~5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775 MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to		Description
	RE \geq 1G	RE $<$ 1G	
-	√	√	-

Where **RE \geq 1G**: Radiated Emission above 1GHz & Bandedge Measurement **RE $<$ 1G**: Radiated Emission below 1GHz

Note: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

Radiated Emission Test (Above 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Data Rate (Mbps)	WLAN / WWAN Module
-	802.11n (HT20) + 802.11n (HT20) + LTE Band 4	2412 ~ 2462	1 to 11	6 + 60 + 20175	BPSK	WLE600VX
		5180 ~ 5240	36 to 48		BPSK	AP6356SDPB
		5260 ~ 5320	52 to 64		BPSK	
		5500 ~ 5700	100 to 140		BPSK	
		5745 ~ 5825	149 to 165		BPSK	
		1717.5 ~ 1747.5	20025 to 20325		QPSK	EM7455
-	802.11n (HT20) + 802.11n (HT20) + LTE Band 4	2412 ~ 2462	1 to 11	6 + 157 + 20175	BPSK	AP6356SDPB
		5180 ~ 5240	36 to 48		BPSK	WLE600VX
		5260 ~ 5320	52 to 64		BPSK	
		5500 ~ 5700	100 to 140		BPSK	
		5745 ~ 5825	149 to 165		BPSK	
		1717.5 ~ 1747.5	20025 to 20325		QPSK	EM7455
-	802.11n (HT20) + 802.11n (HT20) + LTE Band 25	2412 ~ 2462	1 to 11	6 + 60 + 26090	BPSK	WLE600VX
		5180 ~ 5240	36 to 48		BPSK	AP6356SDPB
		5260 ~ 5320	52 to 64		BPSK	
		5500 ~ 5700	100 to 140		BPSK	
		5745 ~ 5825	149 to 165		BPSK	
		1855.0 ~ 1910.0	26090 to 16640		QPSK	EM7455
-	802.11n (HT20) + 802.11n (HT20) + LTE Band 25	2412 ~ 2462	1 to 11	6 + 157 + 26090	BPSK	AP6356SDPB
		5180 ~ 5240	36 to 48		BPSK	WLE600VX
		5260 ~ 5320	52 to 64		BPSK	
		5500 ~ 5700	100 to 140		BPSK	
		5745 ~ 5825	149 to 165		BPSK	
		1855.0 ~ 1910.0	26090 to 16640		QPSK	EM7455
-	802.11n (HT20) + 802.11n (HT20) + LTE Band 26	2412 ~ 2462	1 to 11	6 + 60 + 26865	BPSK	WLE600VX
		5180 ~ 5240	36 to 48		BPSK	AP6356SDPB
		5260 ~ 5320	52 to 64		BPSK	
		5500 ~ 5700	100 to 140		BPSK	
		5745 ~ 5825	149 to 165		BPSK	
		831.5 ~ 841.5	26865 to 26965		QPSK	EM7455
-	802.11n (HT20) + 802.11n (HT20) + LTE Band 26	2412 ~ 2462	1 to 11	6 + 157 + 26865	BPSK	AP6356SDPB
		5180 ~ 5240	36 to 48		BPSK	WLE600VX
		5260 ~ 5320	52 to 64		BPSK	
		5500 ~ 5700	100 to 140		BPSK	
		5745 ~ 5825	149 to 165		BPSK	
		831.5 ~ 841.5	26865 to 26965		QPSK	EM7455

Radiated Emission Test (Below 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Data Rate (Mbps)	WLAN / WWAN Module
-	802.11n (HT20) + 802.11n (HT20) + LTE Band 4	2412 ~ 2462	1 to 11	6 + 60 + 20175	BPSK	WLE600VX
		5180 ~ 5240	36 to 48		BPSK	AP6356SDPB
		5260 ~ 5320	52 to 64		BPSK	
		5500 ~ 5700	100 to 140		BPSK	
		5745 ~ 5825	149 to 165		BPSK	
		1717.5 ~ 1747.5	20025 to 20325		QPSK	EM7455
-	802.11n (HT20) + 802.11n (HT20) + LTE Band 4	2412 ~ 2462	1 to 11	6 + 157 + 20175	BPSK	AP6356SDPB
		5180 ~ 5240	36 to 48		BPSK	WLE600VX
		5260 ~ 5320	52 to 64		BPSK	
		5500 ~ 5700	100 to 140		BPSK	
		5745 ~ 5825	149 to 165		BPSK	
		1717.5 ~ 1747.5	20025 to 20325		QPSK	EM7455
-	802.11n (HT20) + 802.11n (HT20) + LTE Band 25	2412 ~ 2462	1 to 11	6 + 60 + 26090	BPSK	WLE600VX
		5180 ~ 5240	36 to 48		BPSK	AP6356SDPB
		5260 ~ 5320	52 to 64		BPSK	
		5500 ~ 5700	100 to 140		BPSK	
		5745 ~ 5825	149 to 165		BPSK	
		1855.0 ~ 1910.0	26090 to 16640		QPSK	EM7455
-	802.11n (HT20) + 802.11n (HT20) + LTE Band 25	2412 ~ 2462	1 to 11	6 + 157 + 26090	BPSK	AP6356SDPB
		5180 ~ 5240	36 to 48		BPSK	WLE600VX
		5260 ~ 5320	52 to 64		BPSK	
		5500 ~ 5700	100 to 140		BPSK	
		5745 ~ 5825	149 to 165		BPSK	
		1855.0 ~ 1910.0	26090 to 16640		QPSK	EM7455
-	802.11n (HT20) + 802.11n (HT20) + LTE Band 26	2412 ~ 2462	1 to 11	6 + 60 + 26865	BPSK	WLE600VX
		5180 ~ 5240	36 to 48		BPSK	AP6356SDPB
		5260 ~ 5320	52 to 64		BPSK	
		5500 ~ 5700	100 to 140		BPSK	
		5745 ~ 5825	149 to 165		BPSK	
		831.5 ~ 841.5	26865 to 26965		QPSK	EM7455
-	802.11n (HT20) + 802.11n (HT20) + LTE Band 26	2412 ~ 2462	1 to 11	6 + 157 + 26865	BPSK	AP6356SDPB
		5180 ~ 5240	36 to 48		BPSK	WLE600VX
		5260 ~ 5320	52 to 64		BPSK	
		5500 ~ 5700	100 to 140		BPSK	
		5745 ~ 5825	149 to 165		BPSK	
		831.5 ~ 841.5	26865 to 26965		QPSK	EM7455

Test Condition:

Applicable to	Environmental Conditions	Input Power	Tested by
RE≥1G	25deg. C, 70%RH	120Vac, 60Hz	Noah Chang
RE<1G	25deg. C, 70%RH	120Vac, 60Hz	Noah Chang

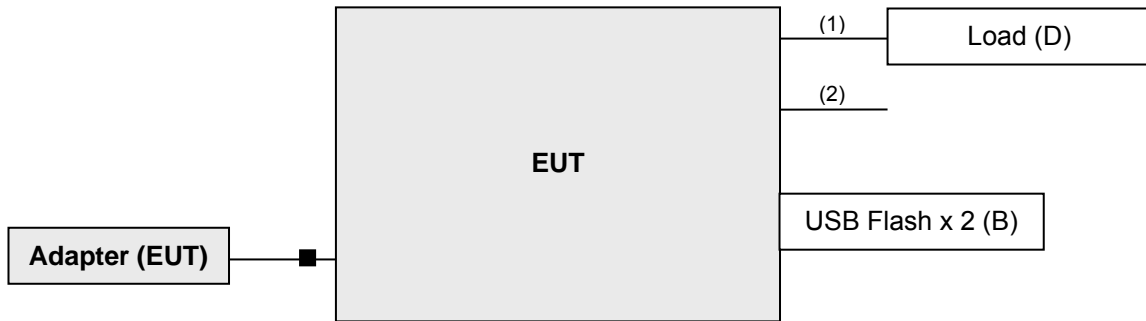
3.3 Description of Support Units

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.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Load	NA	NA	NA	NA	-
B.	USB Flash x 2	HP	v250W	01	NA	-
		HP	v250W	01	NA	-

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	LAN cable	8	1.6	N	0	-
2.	Fiber cable	2	2.95	N	0	Provided by client

3.3.1 Configuration of System under Test



3.4 General Description of Applied Standards

The EUT is a RF Product. According to the specification of the EUT declared by the manufacturer, it must comply with the requirements of the following standards:

47 CFR FCC Part 15, Subpart C (Section 15.247)

47 CFR FCC Part 15, Subpart E (Section 15.407)

FCC Part 22, Subpart H

FCC Part 24, Subpart E

FCC Part 27, Subpart C

ANSI 63.26-2015

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (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 lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3m	
		PK: 74 (dBuV/m)	AV: 54 (dBuV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2(dBuV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	<input checked="" type="checkbox"/> 15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1} PK: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2(dBuV/m) ^{*1} PK: 105.2 (dBuV/m) ^{*2} PK: 110.8(dBuV/m) ^{*3} PK: 122.2 (dBuV/m) ^{*4}
	<input type="checkbox"/> 15.407(b)(4)(ii)	Emission limits in section 15.247(d)	
^{*1} beyond 75 MHz or more above of the band edge.		^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.	
^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.		^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000 \sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	May 29, 2018	May 28, 2019
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 25, 2018	Sep. 24, 2019
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Nov. 21, 2018	Dec. 20, 2019
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-1170	Dec. 13, 2017	Dec. 12, 2018
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Dec. 01, 2017	Nov. 30, 2018
Loop Antenna TESEQ	HLA 6121	45745	Jun. 14, 2018	Jun. 13, 2019
Preamplifier Agilent (Below 1GHz)	8447D	2944A10631	Aug. 08, 2018	Aug. 07, 2019
Preamplifier KEYSIGHT (Above 1GHz)	83017A	MY53270295	Jul. 02, 2018	Jul. 01, 2019
RF signal cable HUBER+SUHNER	SUCOFLEX 104	MY 13380+295012/04	Aug. 08, 2018	Aug. 07, 2019
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03 (250724)	Aug. 08, 2018	Aug. 07, 2019
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021703	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Pre-amplifier (18GHz-40GHz) EMC	EMC184045B	980175	Nov. 14, 2018	Nov. 13, 2019
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA

- Note:
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Chamber 4.
 3. The FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
 4. The IC Site Registration No. is 7450F-4.

4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna 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.
- 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 meters and the rotatable table was turned from 0 degrees to 360 degrees 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 1 GHz.
- f. The test-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. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

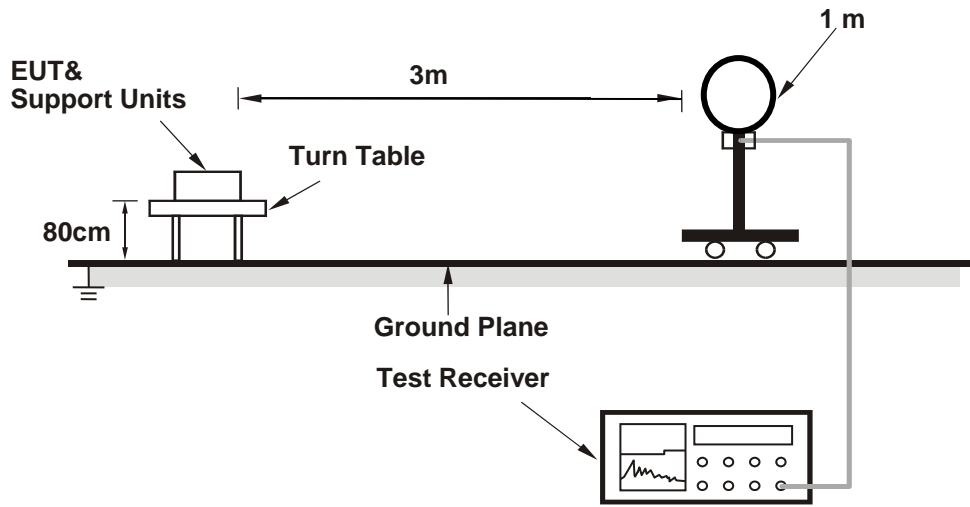
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

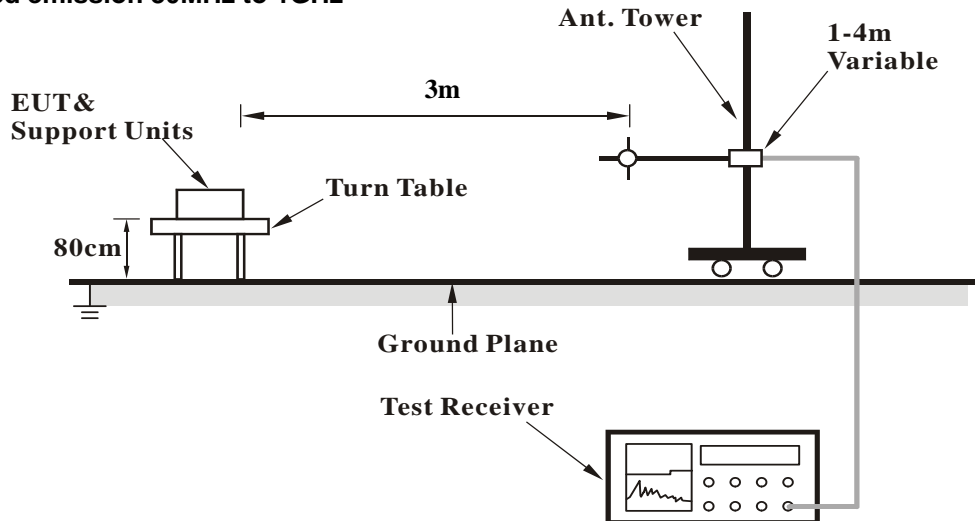
No deviation.

4.1.5 Test Setup

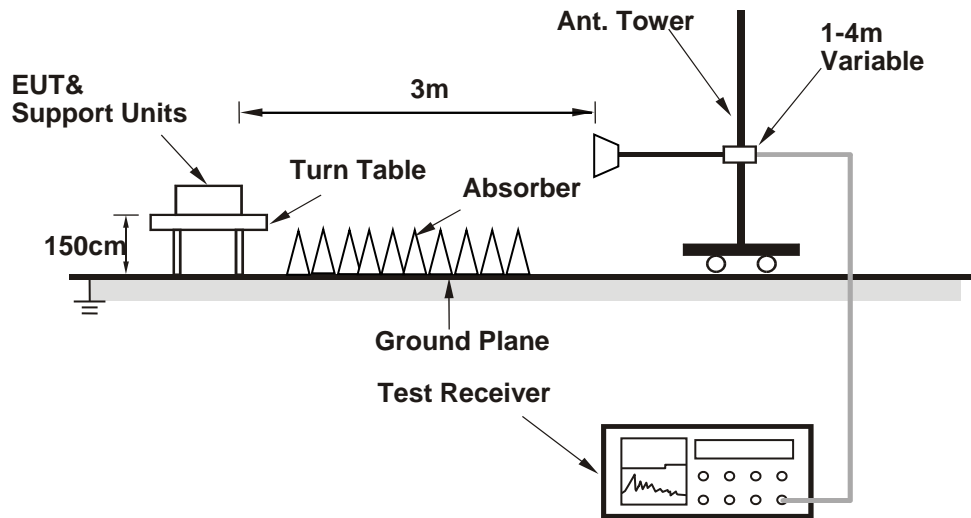
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

Set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Above 1GHz Data:

802.11n (HT20) (WLAN Module: WLE600VX) + 802.11n (HT20) (WLAN Module: AP6356SDPB) + LTE Band 4 (WWAN Module: EM7455)

CHANNEL	6 + 60 + 20175	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m (For FCC 15.247)

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	111.0 PK			1.46 H	214	77.6	33.4
2	*2437.00	101.7 AV			1.46 H	214	68.3	33.4
3	2483.50	61.9 PK	74.0	-12.1	1.55 H	221	28.4	33.5
4	2483.50	47.9 AV	54.0	-6.1	1.55 H	221	14.4	33.5
5	4874.00	50.4 PK	74.0	-23.6	2.00 H	62	38.0	12.4
6	4874.00	37.9 AV	54.0	-16.1	2.00 H	62	25.5	12.4
7	*5300.00	94.1 PK			1.59 H	174	53.7	40.4
8	*5300.00	85.4 AV			1.59 H	174	45.0	40.4
9	10600.00	61.9 PK	74.0	-12.1	2.19 H	266	39.6	22.3
10	10600.00	50.3 AV	54.0	-3.7	2.19 H	266	28.0	22.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m (For FCC 15.247)

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	118.3 PK			1.88 V	204	84.9	33.4
2	*2437.00	108.7 AV			1.88 V	204	75.3	33.4
3	2483.50	63.8 PK	74.0	-10.2	1.89 V	215	30.3	33.5
4	2483.50	52.8 AV	54.0	-1.2	1.89 V	215	19.3	33.5
5	4874.00	57.3 PK	74.0	-16.7	2.21 V	46	44.9	12.4
6	4874.00	44.4 AV	54.0	-9.6	2.21 V	46	32.0	12.4
7	*5300.00	104.6 PK			1.75 V	341	64.2	40.4
8	*5300.00	95.1 AV			1.75 V	341	54.7	40.4
9	10600.00	62.1 PK	74.0	-11.9	1.88 V	267	39.8	22.3
10	10600.00	50.7 AV	54.0	-3.3	1.88 V	267	28.4	22.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL		6 + 60 + 20175					
Antenna Polarity & Test Distance: Horizontal at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-22.30	16.40	1.00	17.40	30.00	-12.60
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-16.80	22.40	1.00	23.40	30.00	-6.60

CHANNEL		6 + 60 + 20175					
Antenna Polarity & Test Distance: Horizontal at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3465.00	-62.30	-57.40	7.10	-50.30	-13.00	-37.30
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3465.00	-61.50	-54.70	7.10	-47.60	-13.00	-34.60

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

802.11n (HT20) (WLAN Module: AP6356SDPB) + 802.11n (HT20) (WLAN Module: WLE600VX) + LTE Band 4 (WWAN Module: EM7455)

CHANNEL	6 + 157 + 20175	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m (For FCC 15.247)

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	99.7 PK			1.64 H	332	66.3	33.4
2	*2437.00	89.5 AV			1.64 H	332	56.1	33.4
3	4874.00	53.0 PK	74.0	-21.0	2.86 H	241	40.6	12.4
4	4874.00	40.5 AV	54.0	-13.5	2.86 H	241	28.1	12.4
5	#5601.60	62.6 PK	68.2	-5.6	1.00 H	218	50.0	12.6
6	*5785.00	107.2 PK			1.00 H	218	64.7	42.5
7	*5785.00	96.8 AV			1.00 H	218	54.3	42.5
8	#5964.80	63.9 PK	68.2	-4.3	1.00 H	218	50.1	13.8
9	11570.00	62.1 PK	74.0	-11.9	2.12 H	274	38.9	23.2
10	11570.00	49.7 AV	54.0	-4.3	2.12 H	274	26.5	23.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m (For FCC 15.247)

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	106.4 PK			1.60 V	332	73.0	33.4
2	*2437.00	93.6 AV			1.60 V	332	60.2	33.4
3	4874.00	58.3 PK	74.0	-15.7	1.60 V	135	45.9	12.4
4	4874.00	44.9 AV	54.0	-9.1	1.60 V	135	32.5	12.4
5	#5623.20	62.6 PK	68.2	-5.6	1.21 V	274	50.0	12.6
6	*5785.00	119.7 PK			1.05 V	137	77.2	42.5
7	*5785.00	108.4 AV			1.05 V	137	65.9	42.5
8	#5994.40	63.6 PK	68.2	-4.6	1.21 V	274	49.9	13.7
9	11570.00	63.0 PK	74.0	-11.0	1.21 V	274	39.8	23.2
10	11570.00	50.4 AV	54.0	-3.6	1.21 V	274	27.2	23.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL		6 + 157 + 20175					
Antenna Polarity & Test Distance: Horizontal at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-22.50	16.20	1.00	17.20	30.00	-12.80
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-16.40	22.80	1.00	23.80	30.00	-6.20

CHANNEL		6 + 157 + 20175					
Antenna Polarity & Test Distance: Horizontal at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3465.00	-62.90	-58.00	7.10	-50.90	-13.00	-37.90
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3465.00	-61.80	-55.00	7.10	-47.90	-13.00	-34.90

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

802.11n (HT20) (WLAN Module: WLE600VX) + 802.11n (HT20) (WLAN Module: AP6356SDPB) + LTE Band 25 (WWAN Module: EM7455)

CHANNEL	6 + 60 + 26090	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m (For FCC 15.247)

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	110.4 PK			1.53 H	215	77.0	33.4
2	*2437.00	101.4 AV			1.53 H	215	68.0	33.4
3	2483.50	62.1 PK	74.0	-11.9	1.55 H	221	28.6	33.5
4	2483.50	48.0 AV	54.0	-6.0	1.55 H	221	14.5	33.5
5	4874.00	50.4 PK	74.0	-23.6	2.00 H	62	38.0	12.4
6	4874.00	38.5 AV	54.0	-15.5	2.00 H	62	26.1	12.4
7	*5300.00	93.1 PK			2.60 H	174	52.7	40.4
8	*5300.00	84.4 AV			2.60 H	174	44.0	40.4
9	10600.00	61.9 PK	74.0	-12.1	2.19 H	266	39.6	22.3
10	10600.00	50.3 AV	54.0	-3.7	2.19 H	266	28.0	22.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m (For FCC 15.247)

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	118.2 PK			2.00 V	215	84.8	33.4
2	*2437.00	108.4 AV			2.00 V	215	75.0	33.4
3	2483.50	64.1 PK	74.0	-9.9	2.11 V	215	30.6	33.5
4	2483.50	53.0 AV	54.0	-1.0	2.11 V	215	19.5	33.5
5	4874.00	57.3 PK	74.0	-16.7	2.21 V	46	44.9	12.4
6	4874.00	44.4 AV	54.0	-9.6	2.21 V	46	32.0	12.4
7	*5300.00	104.9 PK			1.99 V	335	64.5	40.4
8	*5300.00	95.3 AV			1.99 V	335	54.9	40.4
9	10600.00	61.8 PK	74.0	-12.2	2.44 V	267	39.5	22.3
10	10600.00	51.2 AV	54.0	-2.8	2.44 V	267	28.9	22.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL		6 + 60 + 26090					
Antenna Polarity & Test Distance: Horizontal at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1855.00	-22.50	17.50	1.00	18.50	33.00	-14.50
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1855.00	-17.50	21.30	1.00	22.30	33.00	-10.70

CHANNEL		6 + 60 + 26090					
Antenna Polarity & Test Distance: Horizontal at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3710.00	-61.90	-55.80	7.10	-48.70	-13.00	-35.70
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3710.00	-61.00	-53.90	7.10	-46.80	-13.00	-33.80

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

802.11n (HT20) (WLAN Module: AP6356SDPB) + 802.11n (HT20) (WLAN Module: WLE600VX) + LTE Band 25 (WWAN Module: EM7455)

CHANNEL	6 + 157 + 26090	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m (For FCC 15.247)

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	100.1 PK			1.64 H	335	66.7	33.4
2	*2437.00	89.9 AV			1.64 H	335	56.5	33.4
3	4874.00	53.3 PK	74.0	-20.7	2.88 H	241	40.9	12.4
4	4874.00	40.7 AV	54.0	-13.3	2.88 H	241	28.3	12.4
5	#5626.40	62.1 PK	68.2	-6.1	1.01 H	218	49.5	12.6
6	*5785.00	106.2 PK			1.01 H	218	63.7	42.5
7	*5785.00	95.8 AV			1.01 H	218	53.3	42.5
8	#5952.80	63.0 PK	68.2	-5.2	1.01 H	218	49.3	13.7
9	11570.00	61.7 PK	74.0	-12.3	2.11 H	277	38.5	23.2
10	11570.00	49.8 AV	54.0	-4.2	2.11 H	277	26.6	23.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m (For FCC 15.247)

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	105.9 PK			2.00 V	331	72.5	33.4
2	*2437.00	93.1 AV			2.00 V	331	59.7	33.4
3	4874.00	58.0 PK	74.0	-16.0	1.60 V	135	45.6	12.4
4	4874.00	44.5 AV	54.0	-9.5	1.60 V	135	32.1	12.4
5	#5632.80	62.4 PK	68.2	-5.8	1.09 V	137	49.8	12.6
6	*5785.00	119.5 PK			1.09 V	137	77.0	42.5
7	*5785.00	108.2 AV			1.09 V	137	65.7	42.5
8	#5952.00	62.8 PK	68.2	-5.4	1.09 V	137	49.1	13.7
9	11570.00	62.5 PK	74.0	-11.5	1.33 V	277	39.3	23.2
10	11570.00	50.1 AV	54.0	-3.9	1.33 V	277	26.9	23.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL		6 + 157 + 26090					
Antenna Polarity & Test Distance: Horizontal at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1855.00	-22.30	17.70	1.00	18.70	33.00	-14.30
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1855.00	-17.10	21.70	1.00	22.70	33.00	-10.30

CHANNEL		6 + 157 + 26090					
Antenna Polarity & Test Distance: Horizontal at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3710.00	-62.60	-56.50	7.10	-49.40	-13.00	-36.40
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3710.00	-61.70	-54.60	7.10	-47.50	-13.00	-34.50

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

802.11n (HT20) (WLAN Module: WLE600VX) + 802.11n (HT20) (WLAN Module: AP6356SDPB) + LTE Band 26 (WWAN Module: EM7455)

CHANNEL	6 + 60 + 26865	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m (For FCC 15.247)

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	111.3 PK			1.58 H	200	77.9	33.4
2	*2437.00	101.9 AV			1.58 H	200	68.5	33.4
3	2483.50	62.0 PK	74.0	-12.0	1.59 H	221	28.5	33.5
4	2483.50	48.0 AV	54.0	-6.0	1.59 H	221	14.5	33.5
5	4874.00	50.7 PK	74.0	-23.3	4.00 H	62	38.3	12.4
6	4874.00	38.5 AV	54.0	-15.5	4.00 H	62	26.1	12.4
7	*5300.00	93.9 PK			1.05 H	174	53.5	40.4
8	*5300.00	85.6 AV			1.05 H	174	45.2	40.4
9	10600.00	61.9 PK	74.0	-12.1	2.05 H	266	39.6	22.3
10	10600.00	50.3 AV	54.0	-3.7	2.05 H	266	28.0	22.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m (For FCC 15.247)

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	118.5 PK			1.88 V	214	85.1	33.4
2	*2437.00	109.0 AV			1.88 V	214	75.6	33.4
3	2483.50	64.8 PK	74.0	-9.2	1.99 V	215	31.3	33.5
4	2483.50	53.0 AV	54.0	-1.0	1.99 V	215	19.5	33.5
5	4874.00	57.5 PK	74.0	-16.5	2.52 V	46	45.1	12.4
6	4874.00	44.3 AV	54.0	-9.7	2.52 V	46	31.9	12.4
7	*5300.00	104.2 PK			1.77 V	319	63.8	40.4
8	*5300.00	94.7 AV			1.77 V	319	54.3	40.4
9	10600.00	61.8 PK	74.0	-12.2	1.88 V	267	39.5	22.3
10	10600.00	50.4 AV	54.0	-3.6	1.88 V	267	28.1	22.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL		6 + 60 + 26865					
Antenna Polarity & Test Distance: Horizontal at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	831.50	-11.10	19.90	0.10	20.00	38.50	-18.50
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	831.50	-8.80	22.90	0.10	23.00	38.50	-15.50

CHANNEL		6 + 60 + 26865					
Antenna Polarity & Test Distance: Horizontal at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1663.00	-63.20	-66.50	5.60	-60.90	-13.00	-47.90
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1663.00	-65.00	-66.00	5.60	-60.40	-13.00	-47.40

Remarks:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

802.11n (HT20) (WLAN Module: AP6356SDPB) + 802.11n (HT20) (WLAN Module: WLE600VX) + LTE Band 26 (WWAN Module: EM7455)

CHANNEL	6 + 157 + 26865	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m (For FCC 15.247)

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	100.3 PK			1.65 H	321	66.9	33.4
2	*2437.00	90.0 AV			1.65 H	321	56.6	33.4
3	4874.00	54.0 PK	74.0	-20.0	2.99 H	241	41.6	12.4
4	4874.00	40.5 AV	54.0	-13.5	2.99 H	241	28.1	12.4
5	#5615.20	62.2 PK	68.2	-6.0	1.11 H	211	49.6	12.6
6	*5785.00	106.9 PK			1.11 H	211	64.4	42.5
7	*5785.00	96.5 AV			1.11 H	211	54.0	42.5
8	#5952.80	63.0 PK	68.2	-5.2	1.11 H	211	49.3	13.7
9	11570.00	62.4 PK	74.0	-11.6	2.22 H	274	39.2	23.2
10	11570.00	49.8 AV	54.0	-4.2	2.22 H	274	26.6	23.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m (For FCC 15.247)

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	106.7 PK			1.69 V	332	73.3	33.4
2	*2437.00	93.9 AV			1.69 V	332	60.5	33.4
3	4874.00	57.8 PK	74.0	-16.2	1.63 V	155	45.4	12.4
4	4874.00	44.4 AV	54.0	-9.6	1.63 V	155	32.0	12.4
5	#5604.80	62.3 PK	68.2	-5.9	1.15 V	137	49.7	12.6
6	*5785.00	119.6 PK			1.15 V	137	77.1	42.5
7	*5785.00	108.3 AV			1.15 V	137	65.8	42.5
8	#5952.00	62.8 PK	68.2	-5.4	1.15 V	137	49.1	13.7
9	11570.00	63.1 PK	74.0	-10.9	1.21 V	278	39.9	23.2
10	11570.00	50.7 AV	54.0	-3.3	1.21 V	278	27.5	23.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL		6 + 157 + 26865					
Antenna Polarity & Test Distance: Horizontal at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	831.50	-11.30	19.70	0.10	19.80	38.50	-18.70
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	831.50	-8.40	23.30	0.10	23.40	38.50	-15.10

CHANNEL		6 + 157 + 26865					
Antenna Polarity & Test Distance: Horizontal at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1663.00	-63.10	-66.40	5.60	-60.80	-13.00	-47.80
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1663.00	-64.50	-65.60	5.60	-60.00	-13.00	-47.00

Remarks:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Below 1GHz data

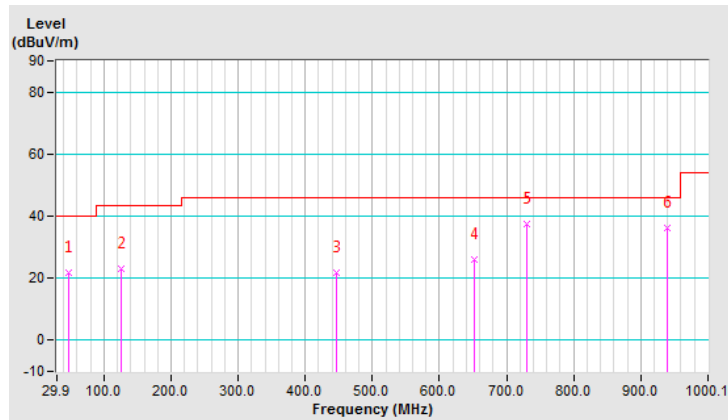
802.11n (HT20) (WLAN Module: WLE600VX) + 802.11n (HT20) (WLAN Module: AP6356SDPB) + LTE Band 4 (WWAN Module: EM7455)

CHANNEL	6 + 60 + 20175	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	47.36	21.8 QP	40.0	-18.2	1.49 H	49	30.5	-8.7
2	124.98	22.9 QP	43.5	-20.6	2.00 H	103	33.6	-10.7
3	447.09	21.8 QP	46.0	-24.2	1.49 H	331	27.4	-5.6
4	652.77	26.1 QP	46.0	-19.9	1.49 H	7	27.5	-1.4
5	730.38	37.4 QP	46.0	-8.6	1.49 H	129	36.9	0.5
6	939.95	36.0 QP	46.0	-10.0	1.01 H	13	31.8	4.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

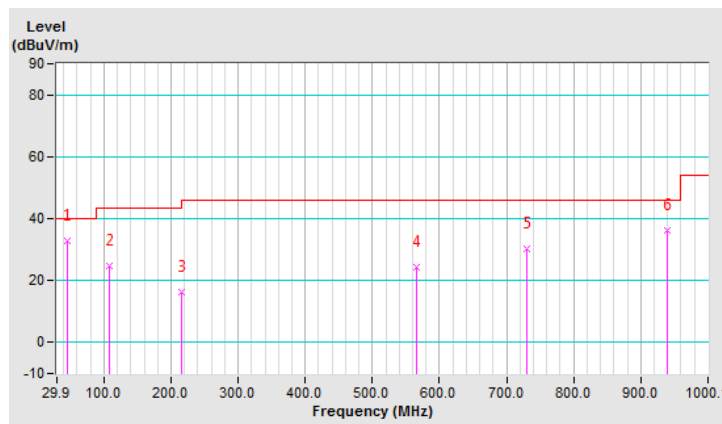


CHANNEL	6 + 60 + 20175	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	45.42	32.8 QP	40.0	-7.2	2.00 V	63	41.7	-8.9
2	107.52	24.7 QP	43.5	-18.8	2.00 V	7	36.9	-12.2
3	216.18	16.2 QP	46.0	-29.8	1.49 V	13	27.8	-11.6
4	565.45	24.4 QP	46.0	-21.6	2.00 V	24	28.1	-3.7
5	730.38	30.4 QP	46.0	-15.6	1.49 V	230	29.9	0.5
6	939.95	36.0 QP	46.0	-10.0	1.49 V	236	31.8	4.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

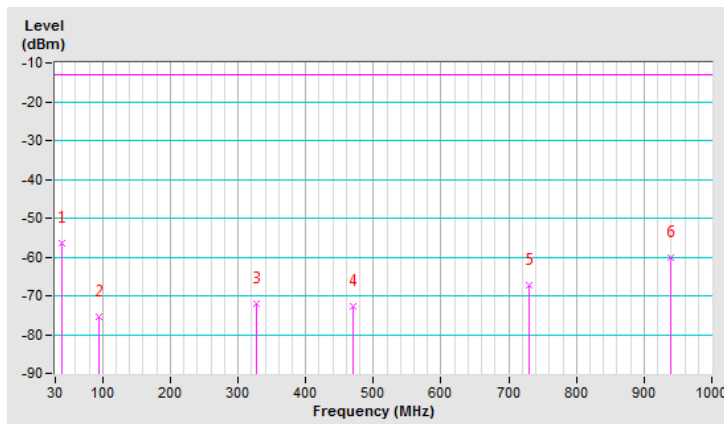


CHANNEL	6 + 60 + 20175	FREQUENCY RANGE	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	39.70	-58.90	-45.70	-10.90	-56.60	-13.00	-43.60
2	94.02	-67.50	-76.30	1.00	-75.30	-13.00	-62.30
3	326.82	-68.50	-77.40	5.20	-72.20	-13.00	-59.20
4	470.38	-71.60	-77.60	5.00	-72.60	-13.00	-59.60
5	730.34	-70.70	-72.30	4.90	-67.40	-13.00	-54.40
6	939.86	-67.40	-64.20	3.90	-60.30	-13.00	-47.30

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

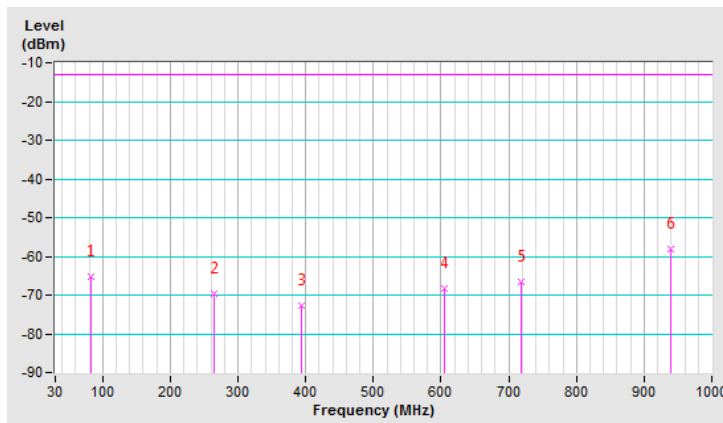


CHANNEL	6 + 60 + 20175	FREQUENCY RANGE	Below 1000 MHz
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Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	82.38	-61.30	-64.30	-1.00	-65.30	-13.00	-52.30
2	264.74	-72.10	-74.80	5.30	-69.50	-13.00	-56.50
3	392.78	-71.80	-77.80	5.20	-72.60	-13.00	-59.60
4	604.24	-72.00	-72.70	4.50	-68.20	-13.00	-55.20
5	718.70	-72.40	-71.70	5.00	-66.70	-13.00	-53.70
6	939.86	-67.10	-62.20	3.90	-58.30	-13.00	-45.30

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).



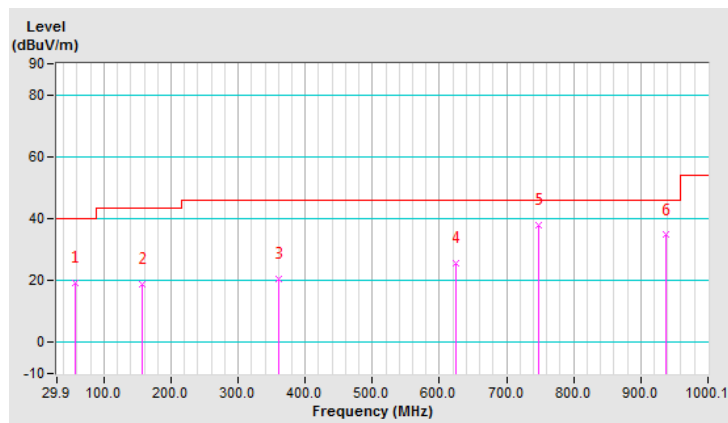
802.11n (HT20) (WLAN Module: AP6356SDPB) + 802.11n (HT20) (WLAN Module: WLE600VX) + LTE Band 4 (WWAN Module: EM7455)

CHANNEL	6 + 157 + 20175	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.07	19.3 QP	40.0	-20.7	2.00 H	163	28.2	-8.9
2	157.97	18.9 QP	43.5	-24.6	1.00 H	28	27.4	-8.5
3	359.77	20.5 QP	46.0	-25.5	1.00 H	2	27.5	-7.0
4	623.66	25.7 QP	46.0	-20.3	1.00 H	7	27.4	-1.7
5	747.85	38.0 QP	46.0	-8.0	2.00 H	33	37.0	1.0
6	938.01	34.7 QP	46.0	-11.3	1.00 H	280	30.6	4.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

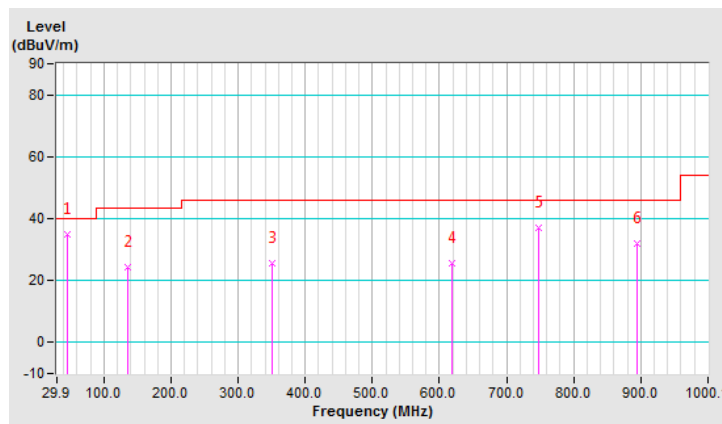


CHANNEL	6 + 157 + 20175	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	45.42	34.8 QP	40.0	-5.2	1.50 V	98	43.7	-8.9
2	134.68	24.2 QP	43.5	-19.3	1.00 V	63	33.9	-9.7
3	350.07	25.4 QP	46.0	-20.6	1.00 V	10	32.7	-7.3
4	617.84	25.6 QP	46.0	-20.4	1.00 V	333	27.5	-1.9
5	747.85	37.0 QP	46.0	-9.0	1.00 V	213	36.0	1.0
6	895.32	32.0 QP	46.0	-14.0	1.00 V	35	28.6	3.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

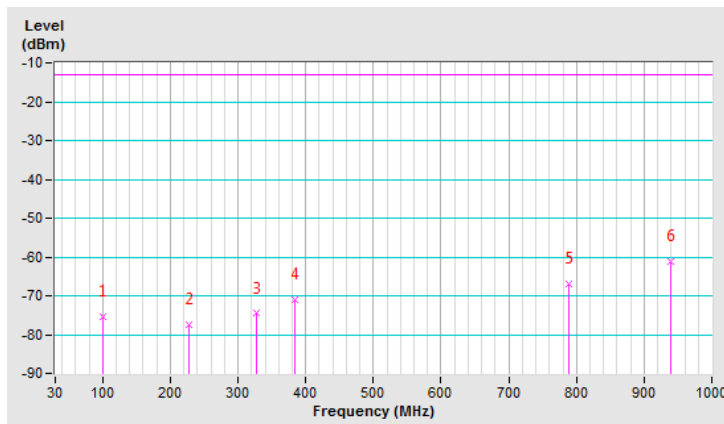


CHANNEL	6 + 157 + 20175	FREQUENCY RANGE	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	99.84	-67.80	-76.20	0.90	-75.30	-13.00	-62.30
2	227.88	-69.00	-82.90	5.40	-77.50	-13.00	-64.50
3	326.82	-70.90	-79.80	5.20	-74.60	-13.00	-61.60
4	383.08	-70.20	-76.40	5.30	-71.10	-13.00	-58.10
5	788.54	-72.40	-71.10	4.10	-67.00	-13.00	-54.00
6	939.86	-68.40	-65.20	3.90	-61.30	-13.00	-48.30

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

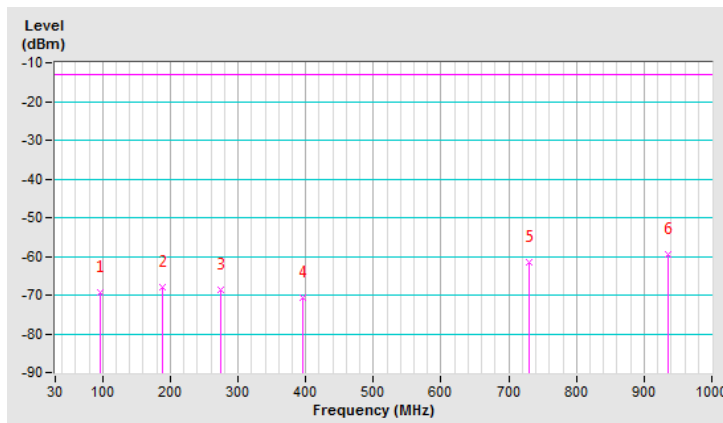


CHANNEL	6 + 157 + 20175	FREQUENCY RANGE	Below 1000 MHz
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Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	95.96	-63.70	-70.40	1.00	-69.40	-13.00	-56.40
2	189.08	-65.20	-71.90	4.10	-67.80	-13.00	-54.80
3	274.44	-71.50	-74.10	5.30	-68.80	-13.00	-55.80
4	396.66	-69.80	-75.80	5.20	-70.60	-13.00	-57.60
5	730.34	-67.30	-66.50	4.90	-61.60	-13.00	-48.60
6	935.98	-68.30	-63.50	3.90	-59.60	-13.00	-46.60

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).



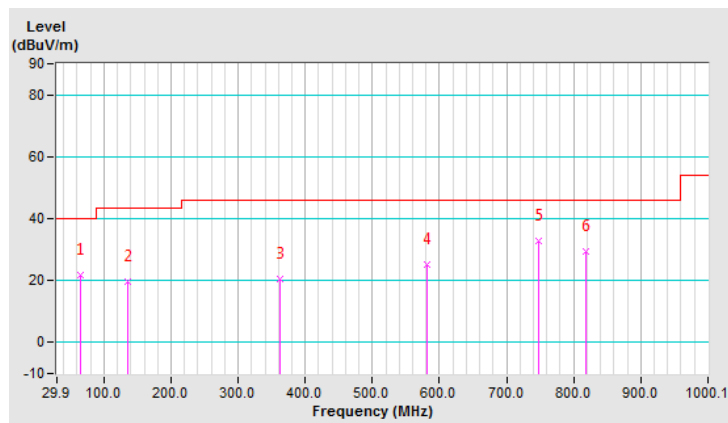
802.11n (HT20) (WLAN Module: WLE600VX) + 802.11n (HT20) (WLAN Module: AP6356SDPB) + LTE Band 25 (WWAN Module: EM7455)

CHANNEL	6 + 60 + 26090	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	64.83	21.8 QP	40.0	-18.2	1.50 H	352	31.5	-9.7
2	134.68	19.8 QP	43.5	-23.7	1.00 H	87	29.5	-9.7
3	361.71	20.6 QP	46.0	-25.4	1.00 H	205	27.7	-7.1
4	580.97	25.1 QP	46.0	-20.9	1.50 H	73	28.2	-3.1
5	747.85	32.9 QP	46.0	-13.1	1.00 H	133	31.9	1.0
6	817.70	29.4 QP	46.0	-16.6	1.00 H	116	27.1	2.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

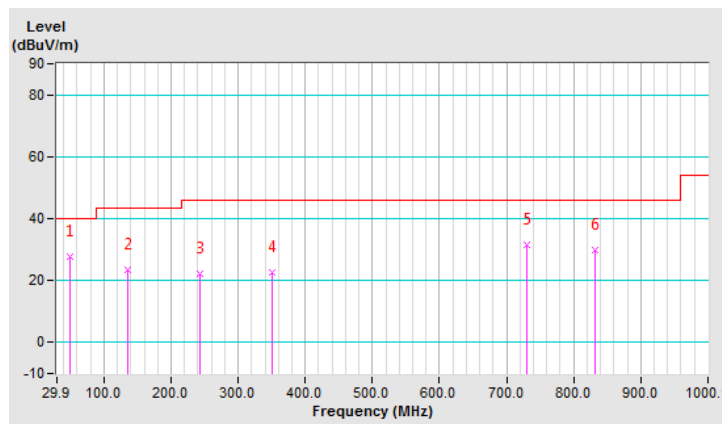


CHANNEL	6 + 60 + 26090	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	49.30	27.6 QP	40.0	-12.4	1.00 V	10	36.2	-8.6
2	134.68	23.5 QP	43.5	-20.0	1.00 V	295	33.2	-9.7
3	243.34	22.1 QP	46.0	-23.9	1.00 V	355	32.0	-9.9
4	350.07	22.8 QP	46.0	-23.2	1.00 V	249	30.1	-7.3
5	730.38	31.6 QP	46.0	-14.4	1.00 V	89	31.1	0.5
6	831.29	29.8 QP	46.0	-16.2	1.00 V	128	27.3	2.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

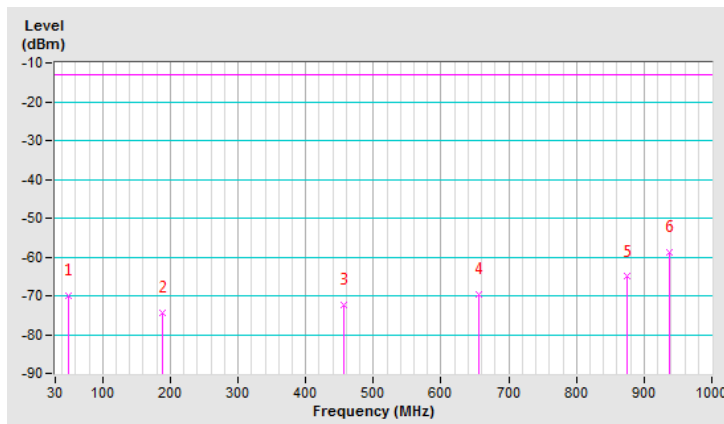


CHANNEL	6 + 60 + 26090	FREQUENCY RANGE	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	49.40	-70.20	-60.70	-9.30	-70.00	-13.00	-57.00
2	189.08	-65.70	-78.50	4.10	-74.40	-13.00	-61.40
3	456.80	-71.20	-77.30	5.00	-72.30	-13.00	-59.30
4	656.62	-71.20	-74.60	4.90	-69.70	-13.00	-56.70
5	873.90	-71.40	-69.00	3.90	-65.10	-13.00	-52.10
6	937.92	-65.80	-62.60	3.90	-58.70	-13.00	-45.70

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

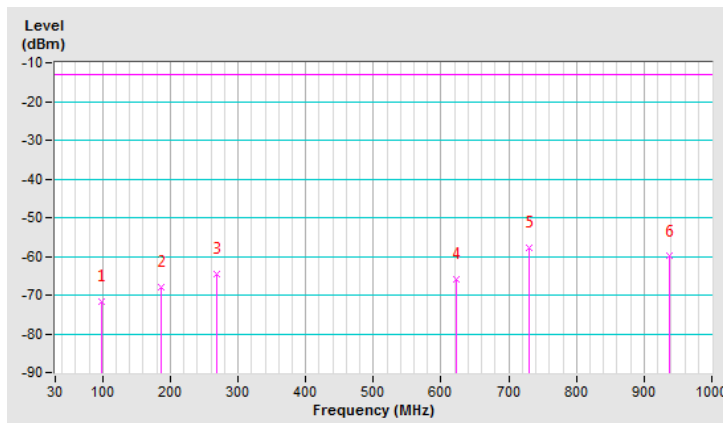


CHANNEL	6 + 60 + 26090	FREQUENCY RANGE	Below 1000 MHz
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Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	97.90	-66.20	-72.80	1.00	-71.80	-13.00	-58.80
2	187.14	-65.70	-71.60	3.80	-67.80	-13.00	-54.80
3	268.62	-67.70	-69.80	5.30	-64.50	-13.00	-51.50
4	621.70	-71.10	-70.70	4.60	-66.10	-13.00	-53.10
5	730.34	-63.60	-62.80	4.90	-57.90	-13.00	-44.90
6	937.92	-68.80	-63.90	3.90	-60.00	-13.00	-47.00

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).



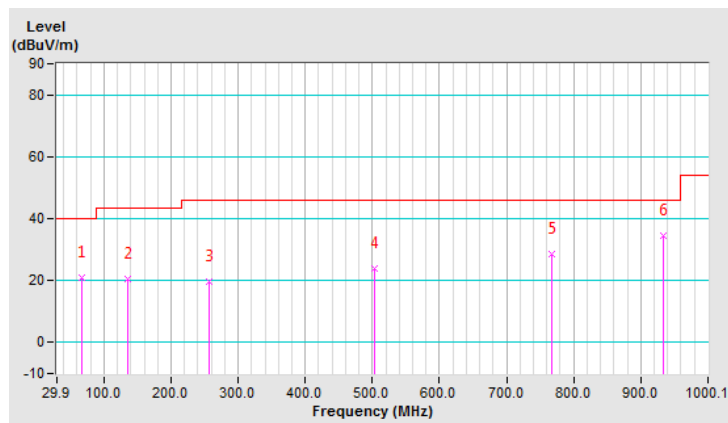
802.11n (HT20) (WLAN Module: AP6356SDPB) + 802.11n (HT20) (WLAN Module: WLE600VX) + LTE Band 25 (WWAN Module: EM7455)

CHANNEL	6 + 157 + 26090	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	66.77	21.1 QP	40.0	-18.9	1.50 H	62	31.0	-9.9
2	134.68	20.3 QP	43.5	-23.2	1.00 H	112	30.0	-9.7
3	256.93	19.5 QP	46.0	-26.5	1.00 H	2	28.9	-9.4
4	503.36	23.8 QP	46.0	-22.2	2.00 H	9	28.6	-4.8
5	767.25	28.7 QP	46.0	-17.3	1.00 H	9	27.3	1.4
6	934.13	34.6 QP	46.0	-11.4	1.00 H	9	30.6	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

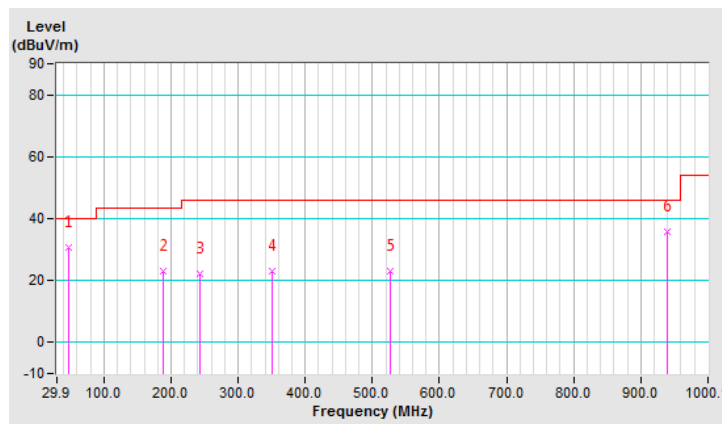


CHANNEL	6 + 157 + 26090	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	47.36	30.6 QP	40.0	-9.4	1.00 V	121	39.3	-8.7
2	189.01	23.2 QP	43.5	-20.3	1.00 V	201	34.4	-11.2
3	243.34	22.3 QP	46.0	-23.7	1.00 V	58	32.2	-9.9
4	350.07	23.1 QP	46.0	-22.9	1.00 V	107	30.4	-7.3
5	526.64	23.0 QP	46.0	-23.0	1.00 V	28	27.4	-4.4
6	939.95	35.6 QP	46.0	-10.4	1.00 V	349	31.4	4.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

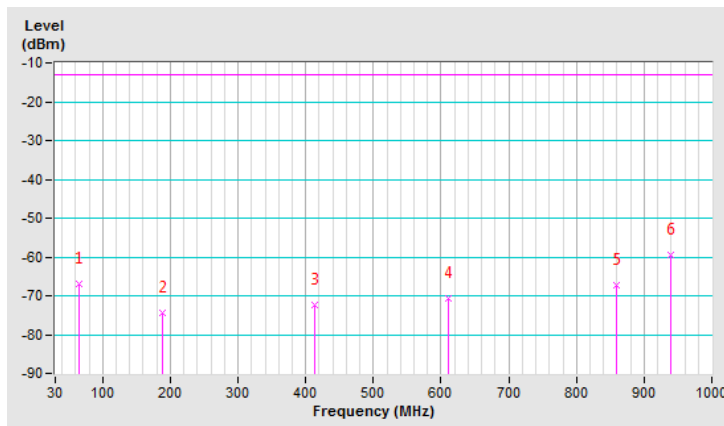


CHANNEL	6 + 157 + 26090	FREQUENCY RANGE	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	64.92	-61.10	-60.80	-6.30	-67.10	-13.00	-54.10
2	189.08	-65.70	-78.50	4.10	-74.40	-13.00	-61.40
3	414.12	-71.60	-77.70	5.20	-72.50	-13.00	-59.50
4	610.06	-71.50	-75.30	4.50	-70.80	-13.00	-57.80
5	858.38	-73.10	-71.10	3.90	-67.20	-13.00	-54.20
6	939.86	-66.50	-63.30	3.90	-59.40	-13.00	-46.40

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

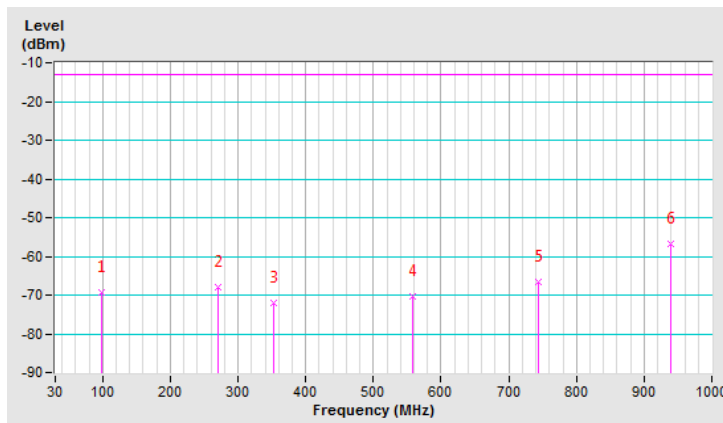


CHANNEL	6 + 157 + 26090	FREQUENCY RANGE	Below 1000 MHz
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Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	97.90	-63.60	-70.20	1.00	-69.20	-13.00	-56.20
2	270.56	-71.20	-73.30	5.30	-68.00	-13.00	-55.00
3	352.04	-70.70	-77.40	5.20	-72.20	-13.00	-59.20
4	557.68	-71.70	-75.00	4.70	-70.30	-13.00	-57.30
5	743.92	-72.20	-71.20	4.70	-66.50	-13.00	-53.50
6	939.86	-65.60	-60.70	3.90	-56.80	-13.00	-43.80

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).



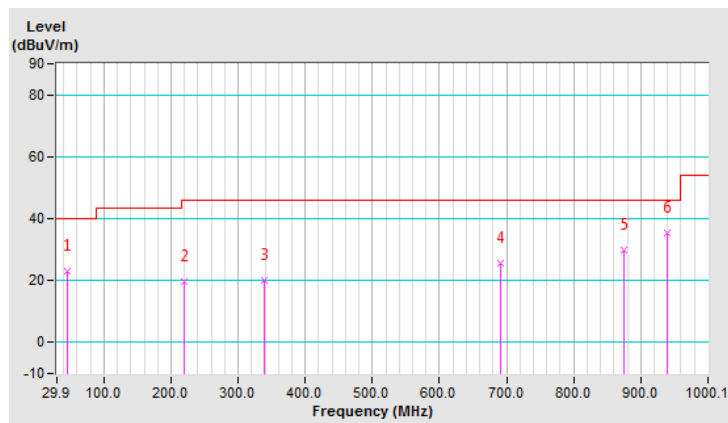
802.11n (HT20) (WLAN Module: WLE600VX) + 802.11n (HT20) (WLAN Module: AP6356SDPB) + LTE Band 26 (WWAN Module: EM7455)

CHANNEL	6 + 60 + 26865	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	45.42	23.1 QP	40.0	-16.9	2.00 H	4	32.0	-8.9
2	220.06	19.7 QP	46.0	-26.3	1.00 H	59	31.2	-11.5
3	338.42	19.9 QP	46.0	-26.1	1.00 H	31	27.3	-7.4
4	691.58	25.8 QP	46.0	-20.2	2.00 H	211	26.4	-0.6
5	873.97	30.0 QP	46.0	-16.0	1.50 H	263	26.9	3.1
6	939.95	35.5 QP	46.0	-10.5	1.00 H	280	31.3	4.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

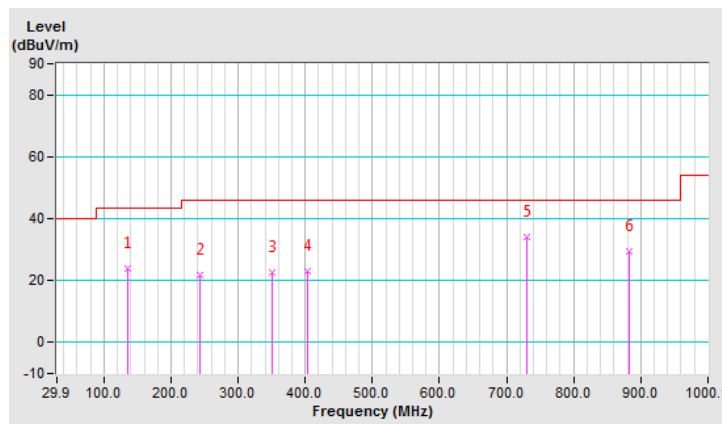


CHANNEL	6 + 60 + 26865	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	134.68	23.9 QP	43.5	-19.6	1.50 V	9	33.6	-9.7
2	243.34	21.6 QP	46.0	-24.4	1.00 V	15	31.5	-9.9
3	350.07	22.6 QP	46.0	-23.4	1.00 V	324	29.9	-7.3
4	404.40	23.1 QP	46.0	-22.9	2.00 V	212	29.5	-6.4
5	730.38	34.0 QP	46.0	-12.0	1.00 V	12	33.5	0.5
6	883.68	29.3 QP	46.0	-16.7	1.00 V	157	26.1	3.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

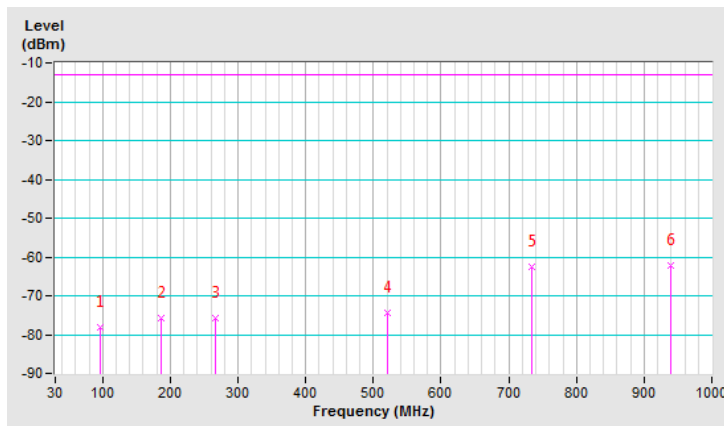


CHANNEL	6 + 60 + 26865	FREQUENCY RANGE	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	95.96	-68.00	-79.20	1.00	-78.20	-13.00	-65.20
2	187.14	-65.00	-79.60	3.80	-75.80	-13.00	-62.80
3	266.68	-68.20	-81.10	5.30	-75.80	-13.00	-62.80
4	520.82	-71.40	-79.20	4.80	-74.40	-13.00	-61.40
5	734.22	-63.90	-67.40	4.80	-62.60	-13.00	-49.60
6	939.86	-67.00	-66.00	3.90	-62.10	-13.00	-49.10

Remarks:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

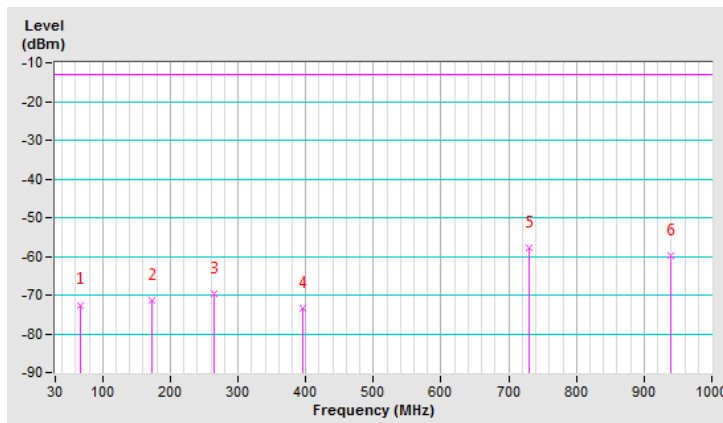


CHANNEL	6 + 60 + 26865	FREQUENCY RANGE	Below 1000 MHz
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Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	66.86	-63.90	-66.70	-5.80	-72.50	-13.00	-59.50
2	173.56	-69.00	-73.40	2.10	-71.30	-13.00	-58.30
3	264.74	-70.00	-74.90	5.30	-69.60	-13.00	-56.60
4	396.66	-70.50	-78.70	5.20	-73.50	-13.00	-60.50
5	730.34	-61.20	-62.60	4.90	-57.70	-13.00	-44.70
6	939.86	-66.40	-63.60	3.90	-59.70	-13.00	-46.70

Remarks:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).



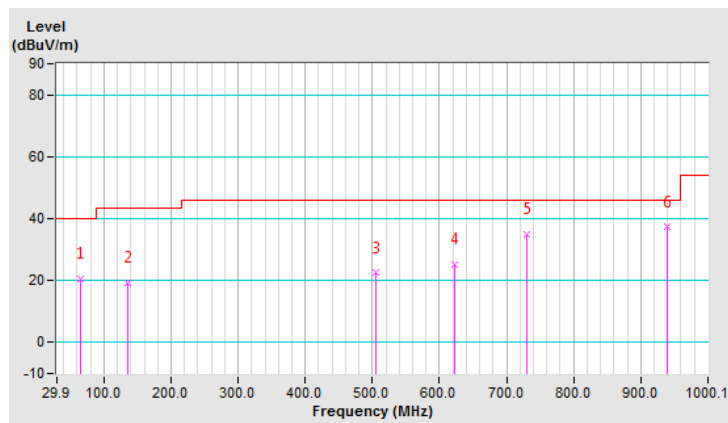
802.11n (HT20) (WLAN Module: AP6356SDPB) + 802.11n (HT20) (WLAN Module: WLE600VX) + LTE Band 26 (WWAN Module: EM7455)

CHANNEL	6 + 157 + 26865	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	64.83	20.3 QP	40.0	-19.7	2.00 H	335	30.0	-9.7
2	134.68	19.1 QP	43.5	-24.4	1.00 H	82	28.8	-9.7
3	505.30	22.4 QP	46.0	-23.6	1.00 H	145	27.1	-4.7
4	621.72	25.3 QP	46.0	-20.7	1.50 H	61	27.0	-1.7
5	730.38	35.0 QP	46.0	-11.0	1.50 H	12	34.5	0.5
6	939.95	37.2 QP	46.0	-8.8	1.00 H	328	33.0	4.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

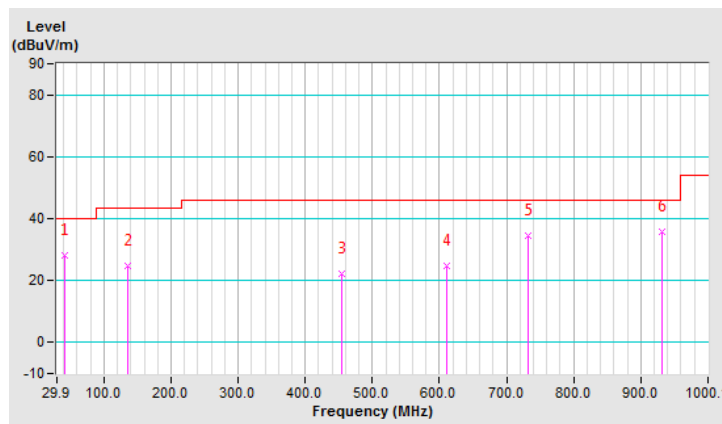


CHANNEL	6 + 157 + 26865	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	41.54	28.2 QP	40.0	-11.8	1.00 V	76	37.4	-9.2
2	134.68	24.6 QP	43.5	-18.9	1.00 V	19	34.3	-9.7
3	454.85	22.3 QP	46.0	-23.7	1.00 V	355	27.8	-5.5
4	610.08	24.7 QP	46.0	-21.3	1.00 V	159	26.7	-2.0
5	732.32	34.6 QP	46.0	-11.4	1.00 V	334	34.0	0.6
6	932.19	35.9 QP	46.0	-10.1	1.00 V	10	31.8	4.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

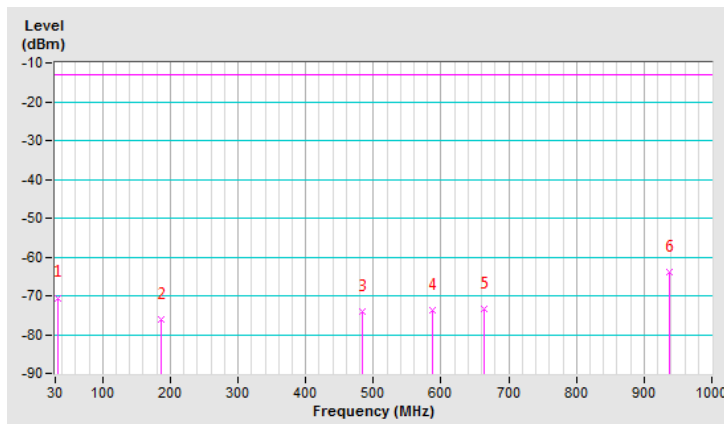


CHANNEL	6 + 157 + 26865	FREQUENCY RANGE	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	33.88	-71.20	-58.80	-11.70	-70.50	-13.00	-57.50
2	187.14	-65.30	-79.90	3.80	-76.10	-13.00	-63.10
3	483.96	-70.50	-79.10	5.00	-74.10	-13.00	-61.10
4	586.78	-71.70	-78.20	4.50	-73.70	-13.00	-60.70
5	664.38	-72.90	-78.40	5.00	-73.40	-13.00	-60.40
6	937.92	-68.80	-67.80	3.90	-63.90	-13.00	-50.90

Remarks:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

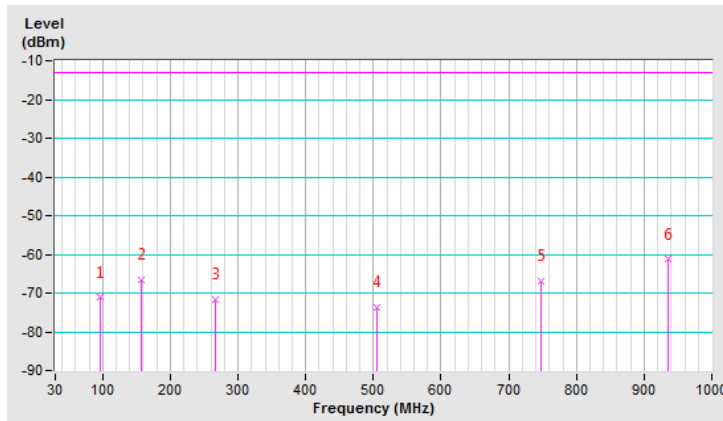


CHANNEL	6 + 157 + 26865	FREQUENCY RANGE	Below 1000 MHz
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Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	95.96	-63.40	-72.20	1.00	-71.20	-13.00	-58.20
2	158.04	-64.00	-66.90	0.30	-66.60	-13.00	-53.60
3	266.68	-72.60	-77.10	5.30	-71.80	-13.00	-58.80
4	505.30	-71.00	-78.60	4.80	-73.80	-13.00	-60.80
5	747.80	-70.50	-71.70	4.70	-67.00	-13.00	-54.00
6	935.98	-68.00	-65.30	3.90	-61.40	-13.00	-48.40

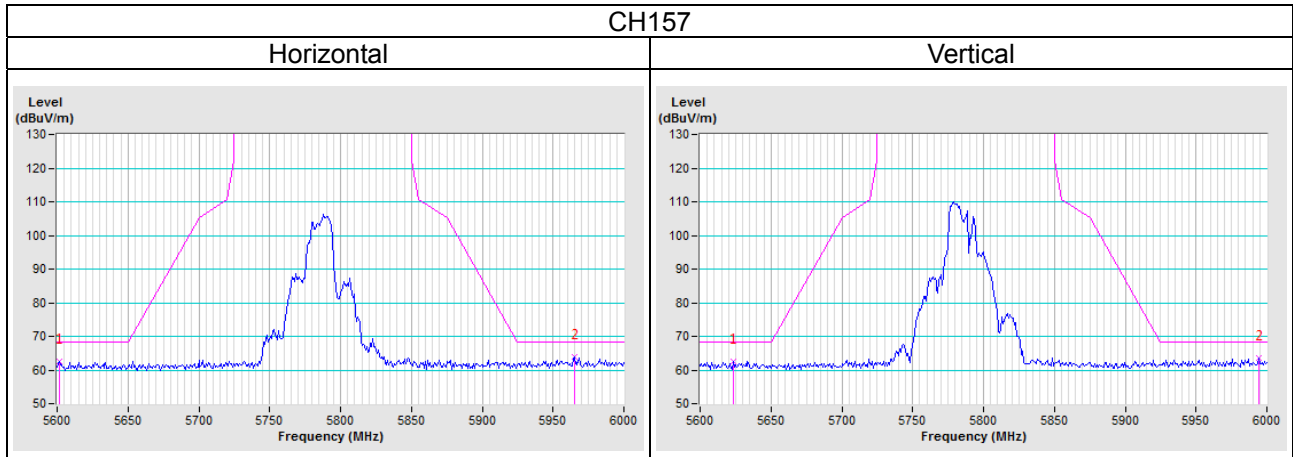
Remarks:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

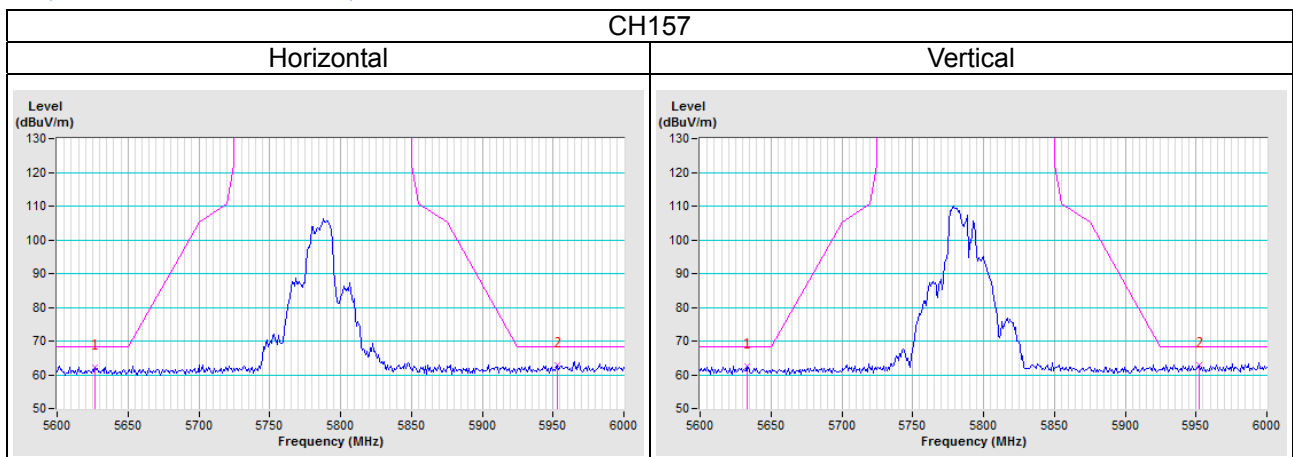


Annex A- Radiated out of Band Emission (OOBE) Measurement (For U-NII-3 band)

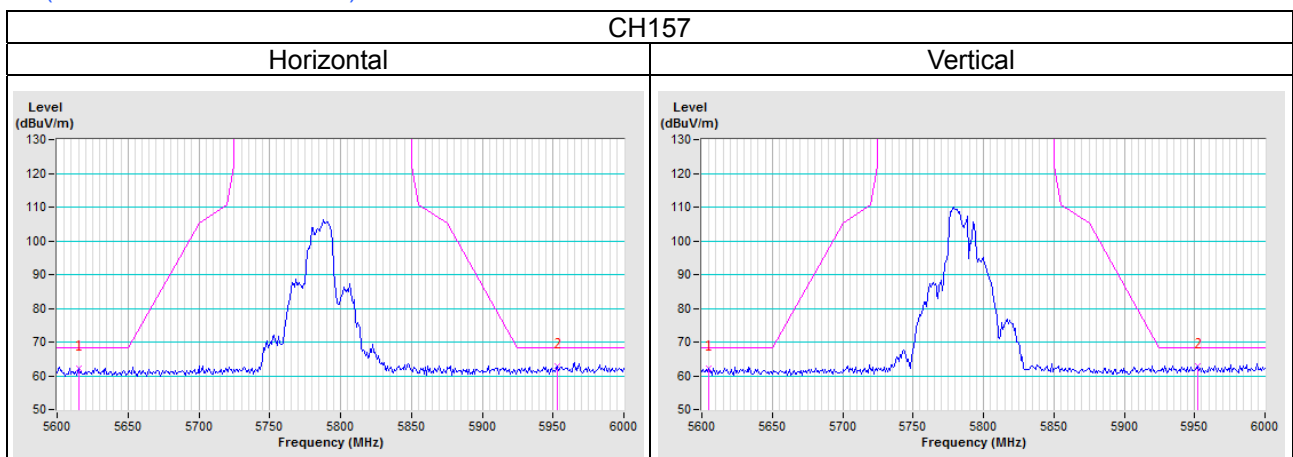
802.11n (HT20) (WLAN Module: AP6356SDPB) + 802.11n (HT20) (WLAN Module: WLE600VX) + LTE Band 4 (WWAN Module: EM7455)



802.11n (HT20) (WLAN Module: AP6356SDPB) + 802.11n (HT20) (WLAN Module: WLE600VX) + LTE Band 25 (WWAN Module: EM7455)



802.11n (HT20) (WLAN Module: AP6356SDPB) + 802.11n (HT20) (WLAN Module: WLE600VX) + LTE Band 26 (WWAN Module: EM7455)



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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