

FCC Test Report (Co-Located)

Report No.: RF200508C22-4

FCC ID: COF-AS01

Test Model: AS-01

Received Date: May. 08, 2020

Test Date: Jun. 10 ~ Jun. 11, 2020

Issued Date: Jun. 19, 2020

Applicant: UNIVERSAL GLOBAL SCIENTIFIC INDUSTRIAL CO., LTD

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 788550 / TW0003
Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RF200508C22-4	Original release	Jun. 19, 2020

1 Certificate of Conformity

Product: Azure Sphere Module

Brand: 

Test Model: AS-01

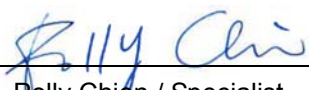
Sample Status: Engineering sample

Applicant: UNIVERSAL GLOBAL SCIENTIFIC INDUSTRIAL CO., LTD

Test Date: Jun. 10 ~ Jun. 11, 2020

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)
47 CFR FCC Part 15, Subpart E (Section 15.407)
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 :  , **Date:** Jun. 19, 2020
Polly Chien / Specialist

Approved by :  , **Date:** Jun. 19, 2020
Bruce Chen / Senior 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 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 72.51MHz.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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) ($\pm$)
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.59 dB
	200MHz ~ 1000MHz	3.60 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	Azure Sphere Module	
Brand		
Test Model	AS-01	
Sample Status	Engineering sample	
Power Supply Rating	3.3Vdc (Host equipment)	
Modulation Type	WLAN	CCK, DQPSK, DBPSK for DSSS 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
	Bluetooth LE	GFSK
Modulation Technology	WLAN	DSSS, OFDM
Transfer Rate	WLAN	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps 802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 72.2Mbps
	Bluetooth LE	2Mbps
Operating Frequency	WLAN	2.4GHz: 2412 ~ 2462MHz 5.0GHz: 5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
	Bluetooth LE	2402 ~ 2480MHz
Number of Channel	WLAN	2412 ~ 2462MHz: 802.11b:11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 72.2Mbps 5180~5240MHz: 802.11a, 802.11n (HT20): 4 5260~5320MHz: 802.11a, 802.11n (HT20): 4 5500~5720MHz: 802.11a, 802.11n (HT20): 12 5745~5825MHz: 802.11a, 802.11n (HT20): 5
	Bluetooth LE	40
Antenna Type	Refer to Note	
Antenna Connector	Refer to Note	
Accessory Device	NA	
Cable Supplied	1m shielded USB cable without core	

Note:

1. The EUT provides one completed transmitter and one receiver.

Modulation Mode		TX Function
2.4GHz	802.11b	1TX
	802.11g	1TX
	802.11n (HT20)	1TX
5GHz	802.11a	1TX
	802.11n (HT20)	1TX

2. The following antennas were provided to the EUT.

Item	Antenna type	Connector	Gain(dBi)	
			2.4GHz	5GHz
WiFi external ANT (AUX) (Optional)	Dipole	i-pex(MHF)	3.22	3.43
WiFi onboard ANT (Main)	PCB	NA	0.19	3.27
BT ANT	PIFA	i-pex(MHF)	3	-

3. The BT could transmit simultaneously either with WLAN 2.4GHz or 5GHz at the same time.

3.2 Description of Test Modes

For 2.4GHz

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

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

5180~5240MHz:

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

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

5260~5320MHz:

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

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

5500~5720MHz:

12 channels are provided for 802.11a, 802.11n (HT20):

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	144	5720 MHz

5745~5825MHz:

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

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

For Bluetooth LE:

40 channels are provided to this EUT:

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

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to		Description
	RE $\geq$ 1G	RE<1G	
A	√	√	EUT with WiFi onboard ANT
B	√	√	EUT with WiFi external ANT

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 **Z-plane** (Mode A) & **Y-plane** (Mode B).

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	Freq. Range (MHz)	Available Channel	Tested Channel	Modulation Technology
A	802.11g + BT LE	2412 ~ 2462	1 to 11	6 + 39	OFDM
		2402 ~ 2480	0 to 39		GFSK
A	802.11a + BT LE	5500 ~ 5720	100 to 144	144 + 39	OFDM
		2402 ~ 2480	0 to 39		GFSK
B	802.11n (HT20) + BT LE	2412 ~ 2462	1 to 11	1 + 39	OFDM
		2402 ~ 2480	0 to 39		GFSK
B	802.11n (HT20) + BT LE	5180 ~ 5240	36 to 48	48 + 39	OFDM
		2402 ~ 2480	0 to 39		GFSK

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	Freq. Range (MHz)	Available Channel	Tested Channel	Modulation Technology
A	802.11g + BT LE	2412 ~ 2462	1 to 11	6 + 39	OFDM
		2402 ~ 2480	0 to 39		GFSK
A	802.11a + BT LE	5500 ~ 5720	100 to 144	144 + 39	OFDM
		2402 ~ 2480	0 to 39		GFSK
B	802.11n (HT20) + BT LE	2412 ~ 2462	1 to 11	1 + 39	OFDM
		2402 ~ 2480	0 to 39		GFSK
B	802.11n (HT20) + BT LE	5180 ~ 5240	36 to 48	48 + 39	OFDM
		2402 ~ 2480	0 to 39		GFSK

Test Condition:

Applicable to	Environmental Conditions	Input Power (system)	Tested by
RE $\geq$ 1G	23 deg. C, 66% RH	120Vac, 60Hz	Ttan Hsu
RE<1G	23 deg. C, 66% RH	120Vac, 60Hz	Ttan Hsu

3.3 Description of Support Units

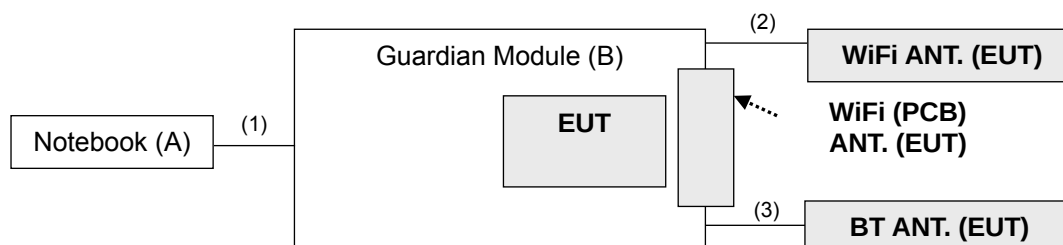
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	HP	11-u018TU	NA	FCC DoC Approved	-
B.	Guardian Module		GM-01	NA	NA	Provided by client

Note: All power cords of the above support units are non-shielded (1.8m).

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB cable	1	1	Y	0	Accessory of EUT
2.	ANT. cable	1	0.06	Y	0	Accessory of EUT (Optional)
3.	ANT. cable	1	0.07	Y	0	Accessory of EUT

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:

FCC Part 15, Subpart C (15.247)

FCC Part 15, Subpart E (15.407)

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. Other emissions shall be at least 30dB below the highest level of the desired power:

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 (dBµV/m)	AV: 54 (dBµV/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(dBµV/m)
5250~5350 MHz	15.407(b)(2)			
5470~5725 MHz	15.407(b)(3)			
5725~5850 MHz	☒	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(dBµV/m) ^{*1} PK: 105.2 (dBµV/m) ^{*2} PK: 110.8(dBµV/m) ^{*3} PK: 122.2 (dBµV/m) ^{*4}
	☐	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:

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY55420137	Apr. 16, 2020	Apr. 15, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 12, 2019	Jun. 11, 2020
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Nov. 07, 2019	Nov. 06, 2020
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Nov. 24, 2019	Nov. 23, 2020
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 24, 2019	Nov. 23, 2020
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Jul. 11, 2019	Jul. 10, 2020
Preamplifier Agilent (Above 1GHz)	8449B	3008A02367	Feb. 18, 2020	Feb. 17, 2021
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	Jan. 18, 2020	Jan. 17, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	Jul. 11, 2019	Jul. 10, 2020
RF signal cable Woken	8D-FB	Cable-CH9-01	Jul. 30, 2019	Jul. 29, 2020
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower & Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Pre-amplifier (18GHz-40GHz) EMC	EMC184045B	980175	Sep. 05, 2019	Sep. 04, 2020

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 9.

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:

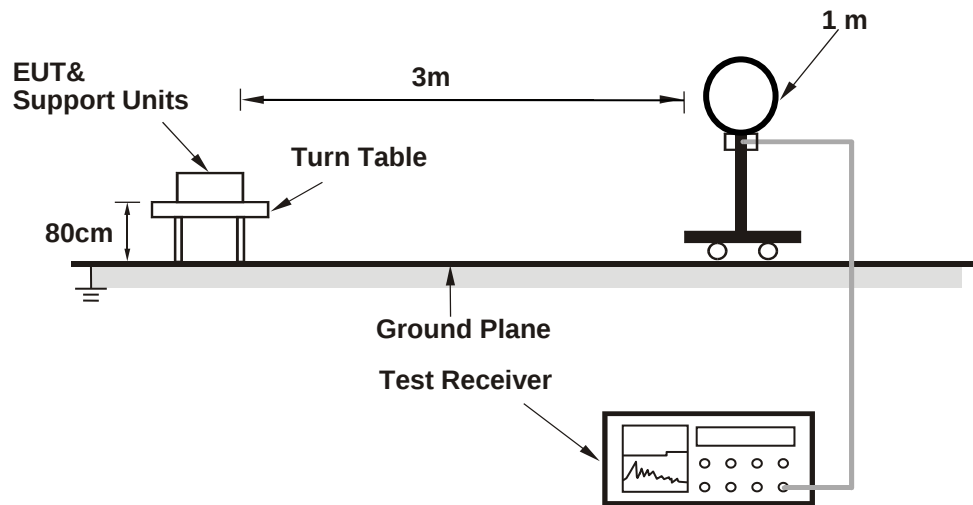
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
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

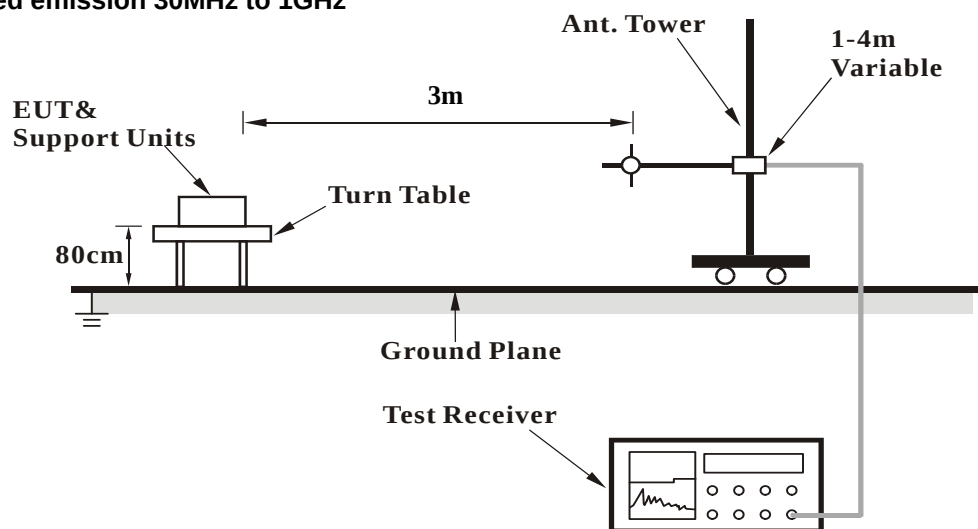
No deviation.

4.1.5 Test Setup

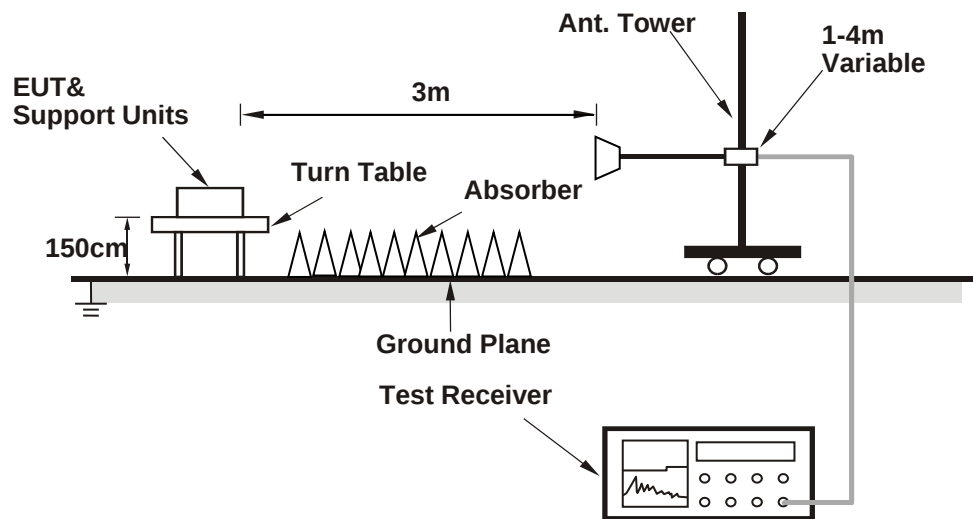
For Radiated emission below 30MHz



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

- Placed the EUT on the testing table.
- Set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Above 1GHz Data:

802.11g + BT LE

CHANNEL	CH 6 + CH 39	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz	TEST MODE	A

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	*2462.00	103.5 PK			3.77 H	12	71.1	32.4
2	*2462.00	92.8 AV			3.77 H	12	60.4	32.4
3	*2480.00	97.1 PK			1.23 H	326	64.7	32.4
4	*2480.00	81.0 AV			1.23 H	326	48.6	32.4
5	2483.50	64.7 PK	74.0	-9.3	3.77 H	12	32.3	32.4
6	2483.50	45.8 AV	54.0	-8.2	3.77 H	12	13.4	32.4
7	4924.00	43.0 PK	74.0	-31.0	1.88 H	259	39.2	3.8
8	4924.00	29.8 AV	54.0	-24.2	1.88 H	259	26.0	3.8
9	4960.00	46.0 PK	74.0	-28.0	1.08 H	111	41.9	4.1
10	4960.00	37.2 AV	54.0	-16.8	1.08 H	111	33.1	4.1
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	*2462.00	105.1 PK			1.55 V	123	72.7	32.4
2	*2462.00	93.8 AV			1.55 V	123	61.4	32.4
3	*2480.00	93.5 PK			1.62 V	25	61.1	32.4
4	*2480.00	77.0 AV			1.62 V	25	44.6	32.4
5	2483.50	66.5 PK	74.0	-7.5	1.55 V	123	34.1	32.4
6	2483.50	46.2 AV	54.0	-7.8	1.55 V	123	13.8	32.4
7	4924.00	44.0 PK	74.0	-30.0	1.50 V	42	40.2	3.8
8	4924.00	30.2 AV	54.0	-23.8	1.50 V	42	26.4	3.8
9	4960.00	44.8 PK	74.0	-29.2	2.02 V	77	40.7	4.1
10	4960.00	34.5 AV	54.0	-19.5	2.02 V	77	30.4	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.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11a + BT LE

CHANNEL	CH 144 + CH 39	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz	TEST MODE	A

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	*2480.00	96.9 PK			1.26 H	331	64.5	32.4
2	*2480.00	80.9 AV			1.26 H	331	48.5	32.4
3	2483.50	64.6 PK	74.0	-9.4	1.26 H	331	32.2	32.4
4	2483.50	45.5 AV	54.0	-8.5	1.26 H	331	13.1	32.4
5	4960.00	46.2 PK	74.0	-27.8	1.10 H	116	42.1	4.1
6	4960.00	37.0 AV	54.0	-17.0	1.10 H	116	32.9	4.1
7	5460.00	52.5 PK	74.0	-21.5	1.73 H	242	48.0	4.5
8	5460.00	41.3 AV	54.0	-12.7	1.73 H	242	36.8	4.5
9	#5470.00	53.0 PK	68.2	-15.2	1.73 H	242	48.5	4.5
10	*5720.00	105.0 PK			1.73 H	242	65.0	40.0
11	*5720.00	93.5 AV			1.73 H	242	53.5	40.0
12	#5850.00	52.3 PK	68.2	-15.9	1.73 H	242	47.0	5.3
13	11440.00	55.8 PK	74.0	-18.2	2.05 H	319	37.2	18.6
14	11440.00	42.5 AV	54.0	-11.5	2.05 H	319	23.9	18.6
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	*2480.00	93.2 PK			1.66 V	31	60.8	32.4
2	*2480.00	76.9 AV			1.66 V	31	44.5	32.4
3	2483.50	66.4 PK	74.0	-7.6	1.66 V	31	34.0	32.4
4	2483.50	46.0 AV	54.0	-8.0	1.66 V	31	13.6	32.4
5	4960.00	44.8 PK	74.0	-29.2	2.05 V	80	40.7	4.1
6	4960.00	34.3 AV	54.0	-19.7	2.05 V	80	30.2	4.1
7	5460.00	52.5 PK	74.0	-21.5	1.89 V	292	48.0	4.5
8	5460.00	41.3 AV	54.0	-12.7	1.89 V	292	36.8	4.5
9	#5470.00	52.9 PK	68.2	-15.3	1.89 V	292	48.4	4.5
10	*5720.00	109.0 PK			1.89 V	292	69.0	40.0
11	*5720.00	97.2 AV			1.89 V	292	57.2	40.0
12	#5850.00	52.5 PK	68.2	-15.7	1.89 V	292	47.2	5.3
13	11440.00	56.8 PK	74.0	-17.2	1.66 V	263	38.2	18.6
14	11440.00	43.0 AV	54.0	-11.0	1.66 V	263	24.4	18.6

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.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20) + BT LE

CHANNEL	CH 1 + CH 39	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz	TEST MODE	B

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	2390.00	62.5 PK	74.0	-11.5	2.77 H	155	30.2	32.3
2	2390.00	45.8 AV	54.0	-8.2	2.77 H	155	13.5	32.3
3	*2412.00	109.3 PK			2.77 H	155	77.0	32.3
4	*2412.00	97.0 AV			2.77 H	155	64.7	32.3
5	*2480.00	99.5 PK			1.22 H	354	67.1	32.4
6	*2480.00	82.5 AV			1.22 H	354	50.1	32.4
7	2483.50	61.9 PK	74.0	-12.1	1.22 H	354	29.5	32.4
8	2483.50	47.0 AV	54.0	-7.0	1.22 H	354	14.6	32.4
9	4824.00	42.0 PK	74.0	-32.0	2.32 H	129	38.6	3.4
10	4824.00	29.0 AV	54.0	-25.0	2.32 H	129	25.6	3.4
11	4960.00	47.2 PK	74.0	-26.8	1.20 H	85	43.1	4.1
12	4960.00	38.6 AV	54.0	-15.4	1.20 H	85	34.5	4.1
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	2390.00	55.7 PK	74.0	-18.3	3.42 V	144	23.4	32.3
2	2390.00	43.8 AV	54.0	-10.2	3.42 V	144	11.5	32.3
3	*2412.00	105.0 PK			3.42 V	144	72.7	32.3
4	*2412.00	93.2 AV			3.42 V	144	60.9	32.3
5	*2480.00	94.2 PK			1.77 V	22	61.8	32.4
6	2480.00	77.4 AV			1.77 V	22	45.0	32.4
7	2483.50	56.3 PK	74.0	-17.7	1.77 V	22	23.9	32.4
8	2483.50	44.0 AV	54.0	-10.0	1.77 V	22	11.6	32.4
9	4824.00	42.3 PK	74.0	-31.7	1.75 V	292	38.9	3.4
10	4824.00	29.1 AV	54.0	-24.9	1.75 V	292	25.7	3.4
11	4960.00	45.6 PK	74.0	-28.4	2.02 V	70	41.5	4.1
12	4960.00	34.5 AV	54.0	-19.5	2.02 V	70	30.4	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.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20) + BT LE

CHANNEL	CH 48 + CH 39	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz	TEST MODE	B

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	*2480.00	99.3 PK			1.25 H	352	66.9	32.4
2	*2480.00	82.4 AV			1.25 H	352	50.0	32.4
3	2483.50	61.5 PK	74.0	-12.5	1.25 H	352	29.1	32.4
4	2483.50	46.6 AV	54.0	-7.4	1.25 H	352	14.2	32.4
5	4960.00	46.8 PK	74.0	-27.2	1.22 H	88	42.7	4.1
6	4960.00	38.4 AV	54.0	-15.6	1.22 H	88	34.3	4.1
7	*5240.00	106.5 PK			1.32 H	319	67.4	39.1
8	*5240.00	94.8 AV			1.32 H	319	55.7	39.1
9	5350.00	52.4 PK	74.0	-21.6	1.32 H	319	48.3	4.1
10	5350.00	42.1 AV	54.0	-11.9	1.32 H	319	38.0	4.1
11	#10480.00	55.0 PK	68.2	-13.2	2.22 H	306	37.0	18.0
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	*2480.00	93.9 PK			1.79 V	25	61.5	32.4
2	*2480.00	77.2 AV			1.79 V	25	44.8	32.4
3	2483.50	56.0 PK	74.0	-18.0	1.79 V	25	23.6	32.4
4	2483.50	43.6 AV	54.0	-10.4	1.79 V	25	11.2	32.4
5	4960.00	44.3 PK	74.0	-29.7	2.05 V	72	40.2	4.1
6	4960.00	34.2 AV	54.0	-19.8	2.05 V	72	30.1	4.1
7	*5240.00	104.7 PK			3.43 V	296	65.6	39.1
8	*5240.00	92.9 AV			3.43 V	296	53.8	39.1
9	5350.00	51.5 PK	74.0	-22.5	3.43 V	296	47.4	4.1
10	5350.00	41.5 AV	54.0	-12.5	3.43 V	296	37.4	4.1
11	#10480.00	55.0 PK	68.2	-13.2	1.56 V	230	37.0	18.0

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.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Below 1GHz data

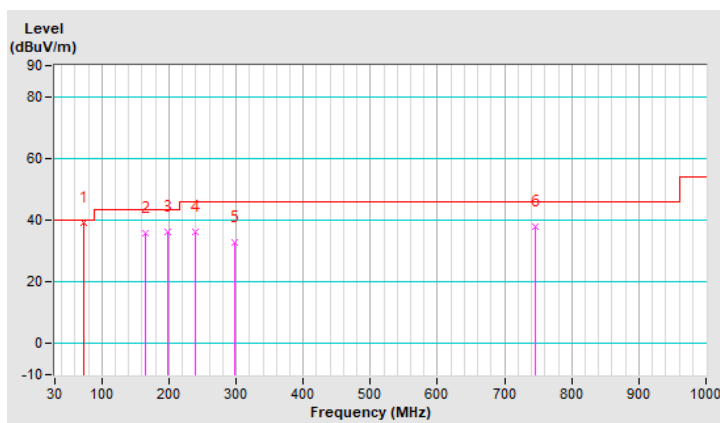
802.11g + BT LE

CHANNEL	CH 6 + CH 39	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz	TEST MODE	A

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	72.51	39.0 QP	40.0	-1.0	1.50 H	312	50.4	-11.4
2	164.96	35.8 QP	43.5	-7.7	1.50 H	242	44.5	-8.7
3	198.70	36.3 QP	43.5	-7.2	1.00 H	198	48.0	-11.7
4	239.46	36.3 QP	46.0	-9.7	1.50 H	50	46.2	-9.9
5	298.51	32.8 QP	46.0	-13.2	1.00 H	211	40.3	-7.5
6	745.55	37.8 QP	46.0	-8.2	2.00 H	164	35.0	2.8

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

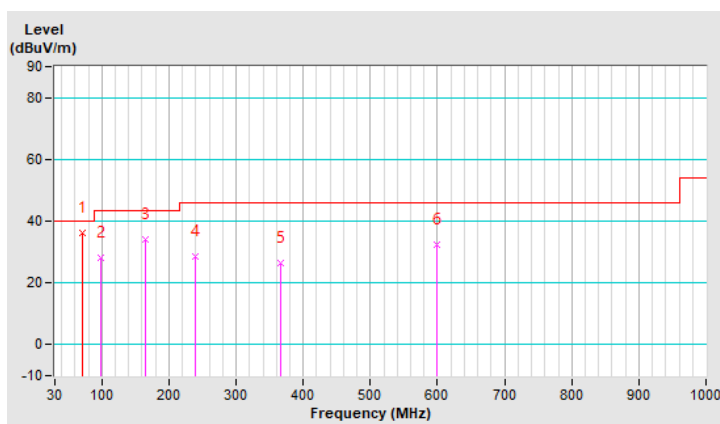


CHANNEL	CH 6 + CH 39	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz	TEST MODE	A

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	71.75	36.0 QP	40.0	-4.0	1.00 V	231	47.2	-11.2
2	98.88	28.1 QP	43.5	-15.4	1.00 V	209	41.4	-13.3
3	164.96	34.1 QP	43.5	-9.4	1.00 V	47	42.8	-8.7
4	239.46	28.4 QP	46.0	-17.6	2.00 V	308	38.3	-9.9
5	365.99	26.5 QP	46.0	-19.5	2.00 V	3	32.0	-5.5
6	599.35	32.3 QP	46.0	-13.7	1.00 V	208	31.3	1.0

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



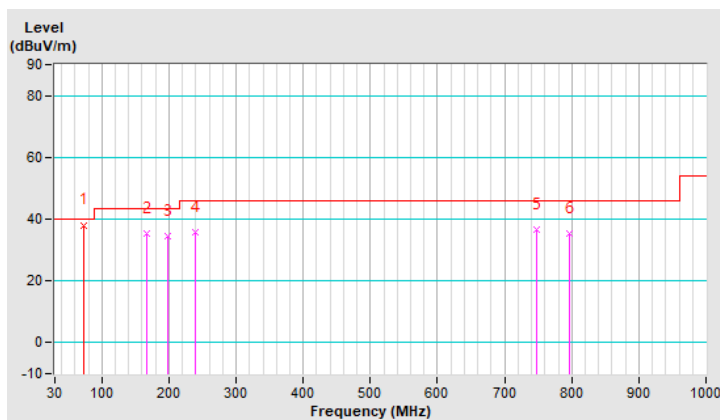
802.11a + BT LE

CHANNEL	CH 144 + CH 39	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz	TEST MODE	A

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	73.09	38.1 QP	40.0	-1.9	1.50 H	285	49.7	-11.6
2	166.36	35.2 QP	43.5	-8.3	1.00 H	190	43.9	-8.7
3	198.70	34.7 QP	43.5	-8.8	1.50 H	358	46.4	-11.7
4	239.46	35.9 QP	46.0	-10.1	1.50 H	61	45.8	-9.9
5	746.96	36.6 QP	46.0	-9.4	1.00 H	212	33.8	2.8
6	797.57	35.3 QP	46.0	-10.7	1.50 H	236	32.4	2.9

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

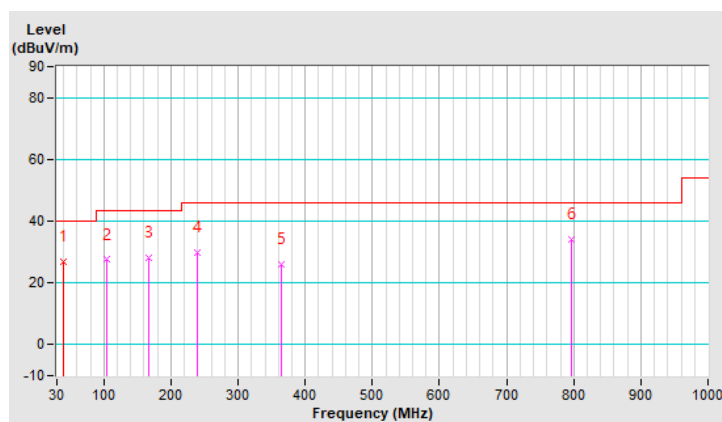


CHANNEL	CH 144 + CH 39	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz	TEST MODE	A

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	39.90	26.9 QP	40.0	-13.1	1.00 V	121	36.3	-9.4
2	104.51	27.5 QP	43.5	-16.0	1.50 V	14	39.9	-12.4
3	166.36	28.0 QP	43.5	-15.5	1.50 V	14	36.7	-8.7
4	239.46	29.7 QP	46.0	-16.3	1.50 V	320	39.6	-9.9
5	364.58	26.2 QP	46.0	-19.8	1.00 V	294	31.7	-5.5
6	797.57	33.9 QP	46.0	-12.1	1.50 V	266	31.0	2.9

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



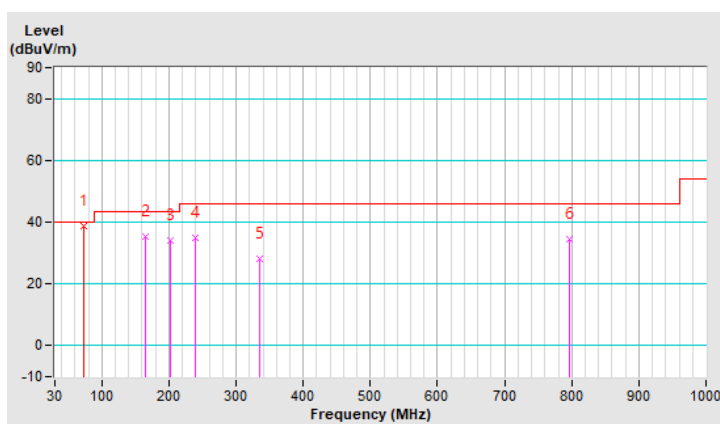
802.11n (HT20) + BT LE

CHANNEL	CH 1 + CH 39	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz	TEST MODE	B

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	72.82	38.9 QP	40.0	-1.1	1.00 H	303	50.4	-11.5
2	164.96	35.2 QP	43.5	-8.3	1.00 H	231	43.9	-8.7
3	201.51	33.9 QP	43.5	-9.6	1.50 H	179	45.6	-11.7
4	239.46	35.0 QP	46.0	-11.0	1.00 H	44	44.9	-9.9
5	335.06	28.1 QP	46.0	-17.9	1.00 H	200	34.4	-6.3
6	797.57	34.7 QP	46.0	-11.3	1.50 H	236	31.8	2.9

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

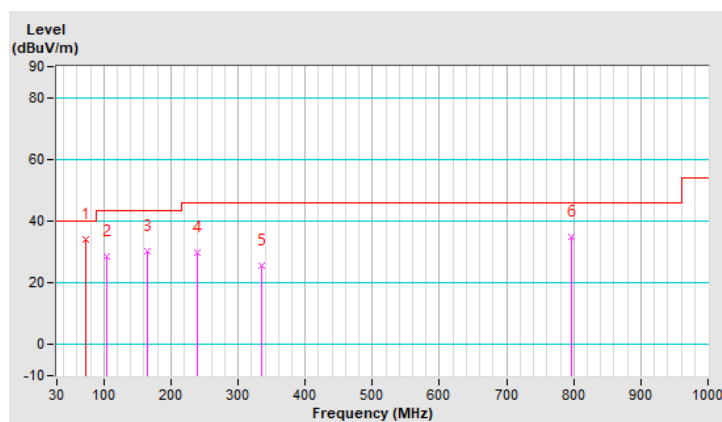


CHANNEL	CH 1 + CH 39	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz	TEST MODE	B

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	72.59	33.9 QP	40.0	-6.1	1.00 V	87	45.4	-11.5
2	104.51	28.7 QP	43.5	-14.8	1.50 V	138	41.1	-12.4
3	164.96	30.1 QP	43.5	-13.4	1.50 V	42	38.8	-8.7
4	239.46	29.7 QP	46.0	-16.3	1.50 V	304	39.6	-9.9
5	335.06	25.8 QP	46.0	-20.2	2.00 V	168	32.1	-6.3
6	797.57	34.8 QP	46.0	-11.2	1.50 V	336	31.9	2.9

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



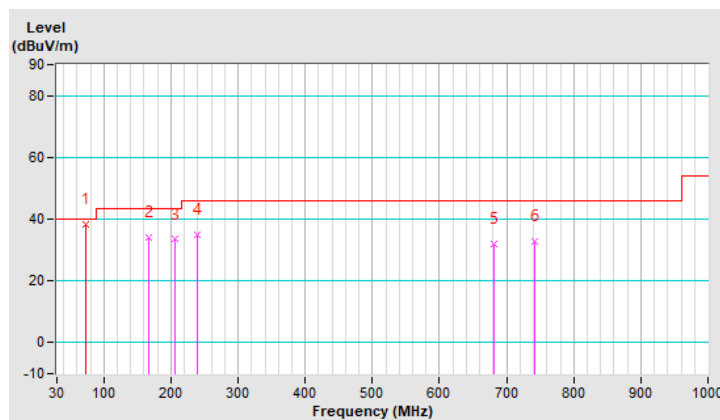
802.11n (HT20) + BT LE

CHANNEL	CH 48 + CH 39	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz	TEST MODE	B

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	72.61	38.5 QP	40.0	-1.5	1.50 H	327	50.0	-11.5
2	166.36	34.1 QP	43.5	-9.4	1.00 H	211	42.8	-8.7
3	205.72	33.4 QP	43.5	-10.1	1.00 H	179	45.0	-11.6
4	239.46	35.0 QP	46.0	-11.0	1.00 H	229	44.9	-9.9
5	680.88	31.8 QP	46.0	-14.2	1.50 H	247	29.8	2.0
6	741.33	32.9 QP	46.0	-13.1	1.00 H	221	30.1	2.8

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

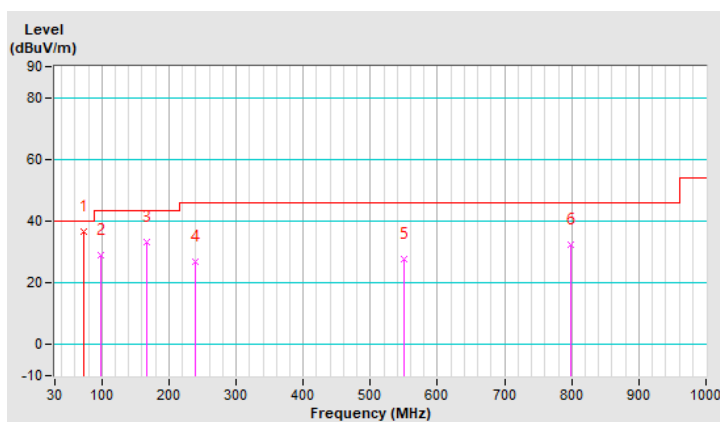


CHANNEL	CH 48 + CH 39	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz	TEST MODE	B

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	72.28	36.4 QP	40.0	-3.6	1.50 V	216	47.8	-11.4
2	98.88	28.9 QP	43.5	-14.6	1.00 V	210	42.2	-13.3
3	166.36	33.1 QP	43.5	-10.4	1.00 V	53	41.8	-8.7
4	239.46	26.7 QP	46.0	-19.3	1.50 V	108	36.6	-9.9
5	550.14	27.8 QP	46.0	-18.2	1.00 V	248	28.3	-0.5
6	798.97	32.2 QP	46.0	-13.8	2.00 V	227	29.2	3.0

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



5 Pictures of Test Arrangements

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

Appendix – Information of 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 FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

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

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

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