TEST REPORT

Applicant	Mach Speed Technologies, LLC
Address	300 E. Arlington St. Suite 3 Ada, OK 74820

Manufacturer or Supplier	Mach Speed Technologies, LLC
Address	300 E. Arlington St. Suite 3 Ada, OK 74820
Product	Tablet PC
Brand Name	Trio
Model	AXS 3G
Additional Model & Model Difference	N/A
Date of tests	Jan. 17, 2014 ~ Mar. 20, 2014

the tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 15, Subpart C (Section 15.247)**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Glyn He Project Engineer/ EMC Department	Approved by Sam Tung Manager / EMC Department
	 Date: Mar. 20, 2014

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF140117N001-1	Original release	Mar. 20, 2014

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)			
STANDARD SECTION	**TEST TYPE AND LIMIT**	**RESULT**	**REMARK**
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -9.6dB at 0.53709MHz.
15.205 15.209	Restricted bands of operation& Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -3.5dB at 46.17 MHz
15.247(a)(2)	6dB bandwidth	PASS	Meet the requirement of limit.
15.247(b)	Conducted output power	PASS	Meet the requirement of limit.
15.247(e)	Power Spectral Density	PASS	Meet the requirement of limit.
15.247(d)	Out of Band Emission Measurement	PASS	Meet the requirement of limit.

2 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	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.67dB
Radiated emissions	30MHz ~ 1GMHz	4.81dB
	1GHz ~ 18GHz	4.3dB
	18GHz ~ 40GHz	1.94dB

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

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Tablet PC
MODEL NO.	AXS 3G
FCC ID	2ABYR-3GTM
NOMINAL VOLTAGE	5.0VDC (adapter or host equipment) ; 3.7VDC (battery)
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM GFSK for BT LE
MODULATION TECHNOLOGY	DSSS, OFDM,
OPERATING FREQUENCY	2412-2462MHz for 11b/g/n(HT20) 2422-2452MHz for 11n(HT40) 2402-2480MHz for BT-LE(GFSK)
PEAK POWER	WLAN：21.83 dBm (Maximum) BT: 1.94 dBm (Maximum)
ANTENNA TYPE	PIFA antenna with 2.0dBi gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB Cable: Shielded, Detachable,1m,with one core

NOTE:

1. The EUT was powered by the following adapter:

ADAPTER	
MODEL:	APP521-050200U
INPUT:	AC 100-240V, 50/60Hz, 450mA Max.
OUTPUT:	DC 5V, 2A
DC LINE:	N/A

2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3. The EUT provides one transmitter and one receiver.

MODULATION MODE	TX FUNCTION
802.11b	1TX/1RX
802.11g	1TX/1RX
802.11n (HT20)	1TX/1RX
802.11n (HT40)	1TX/1RX

4. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

5. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

6. Spurious emission of the simultaneous operation (WLAN& BT&WWAN) has been evaluated and no non-compliance was found.

3.2 DESCRIPTION OF TEST MODES

11 channels are provided for 802.11b, 802.11g and 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		

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		

Forty channels are provided for BT-LE(GFSK):

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. CONFIGURATION OF SYSTEM UNDER TEST

Please see section 5 photographs of the test configuration for reference.

3.2.2. TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports
The worst case was found when positioned on X axis for radiated emission. Following test modes were selected for the final test, and the final worst case is marked in boldface and recorded in the report:

EUT CONFIGURE MODE	APPLICABLE TO				MODE
	RE<1G	RE≥1G	PLC	APCM	
A	√	√	√	-	**Adapter mode with BT-LE and WIFI function on**
B	√	-	**-**	√	Battery mode with BT-LE and WIFI function on

Where **RE<1G:** Radiated Emission below 1GHz **RE≥1G:** Radiated Emission above 1GHz
PLC: Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement

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, XYZ axis 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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	AXIS
A	802.11n HT20	1 to 11	11	OFDM	DBPSK	1.0	X
A	BT-LE	0 to 39	39	DSSS	GFSK	1.0	X

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, XYZ axis 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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	AXIS
A	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0	X
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0	X
A	802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5	X
A	802.11n HT40	3 to 9	3, 6, 9	OFDM	BPSK	13.5	X
A	BT-LE	0 to 39	0,19,39	DSSS	GFSK	1	X

POWER LINE CONDUCTED EMISSION TEST:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis 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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	AXIS
A	802.11n HT20	1 to 11	11	OFDM	DBPSK	1.0	X
A	BT-LE	0 to 39	39	DSSS	GFSK	1.0	X

BANDEDGE MEASUREMENT:

☒ 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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
B	802.11b	1 to 11	1, 11	DSSS	DBPSK	1.0
B	802.11g	1 to 11	1, 11	OFDM	BPSK	6.0
B	802.11n HT20	1 to 11	1, 11	OFDM	BPSK	6.5
B	802.11n HT40	3 to 9	3, 9	OFDM	BPSK	13.5
B	BT-LE	0 to 39	0,39	DSSS	GFSK	1.0

ANTENNA PORT CONDUCTED MEASUREMENT:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

☒ 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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
B	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
B	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
B	802.11n HT20	1 to 11	1,6, 11	OFDM	BPSK	6.5
B	802.11n HT40	3 to 9	3,6, 9	OFDM	BPSK	13.5
B	BT-LE	0 to 39	0,19,39	DSSS	GFSK	1.0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE	TESTED BY
RE<1G	22deg. C, 55%RH	120Vac, 60Hz	Peng ou
RE≥1G	22deg. C, 55%RH	120Vac, 60Hz	Peng ou
PLC	20deg. C, 50%RH	120Vac, 60Hz	Eric.Yu
APCM	25deg. C,60%RH	DC 3.7V from battery	Venless Long

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart C (15.247)

558074 D01 DTS Meas Guidance v03 r01

ANSI C63.10-2009

Note：

1. All test items have been performed and recorded as per the above standards.
2. The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B(DoC). The test report has been issued separately.

3.4 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	N/A				

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

NOTE: 1.The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU 26	100005	May 14,13	May 13,14
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	May 14,13	May 13,14
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	May 14,13	May 13,14
Test software	ADT	ADT_Cond _V7.3.7	N/A	N/A	N/A

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in Shielding Room 553.

4.1.3 TEST PROCEDURES

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

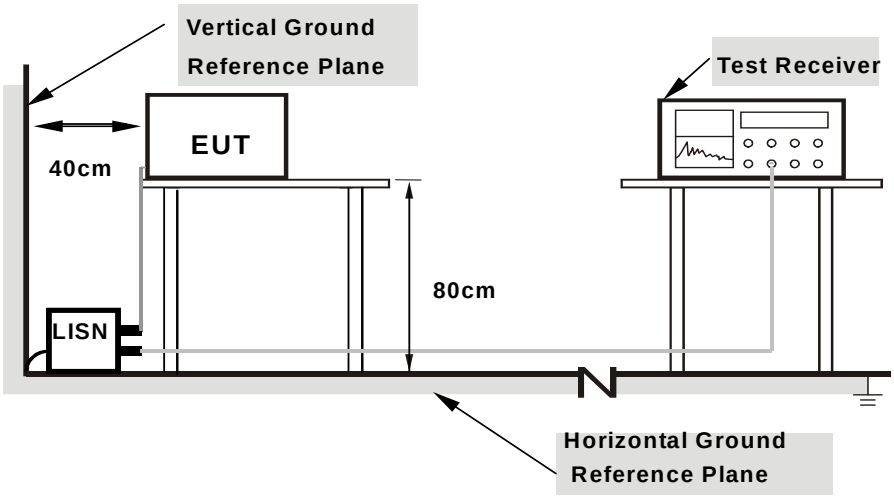
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: 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



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

4.1.6 EUT OPERATING CONDITIONS

a. Turned on the power and connected of all equipment.
b. EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

4.1.7 TEST RESULTS

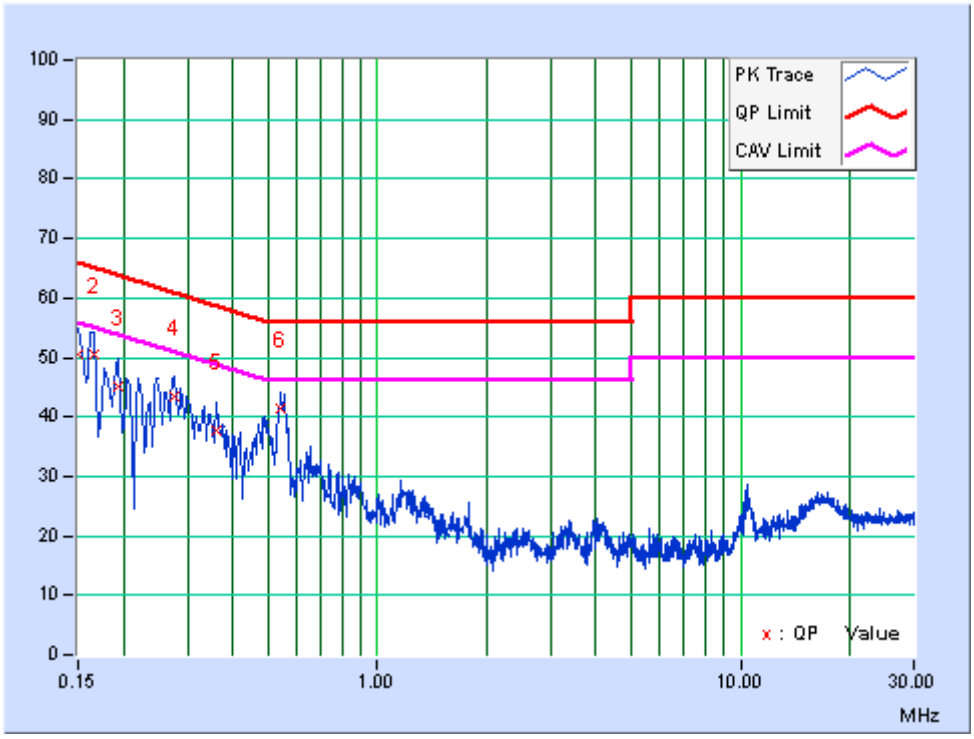
CONDUCTED WORST-CASE DATA

802.11n(HT20)-CH11:

PHASE	Line	6dB BANDWIDTH	9kHz

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15	10.63	39.82	27.5	50.45	38.13	66	56	-15.55	-17.87
2	0.16564	10.57	40.07	29.45	50.64	40.02	65.18	55.18	-14.54	-15.16
3	0.19305	10.46	34.54	23.47	45	33.93	63.9	53.9	-18.91	-19.98
4	0.2748	10.38	33.17	26.74	43.55	37.12	60.97	50.97	-17.43	-13.86
5	0.36114	10.32	27.25	20.86	37.57	31.18	58.7	48.7	-21.13	-17.52
6	0.54089	10.23	31.1	24.52	41.33	34.75	56	46	-14.67	-11.25

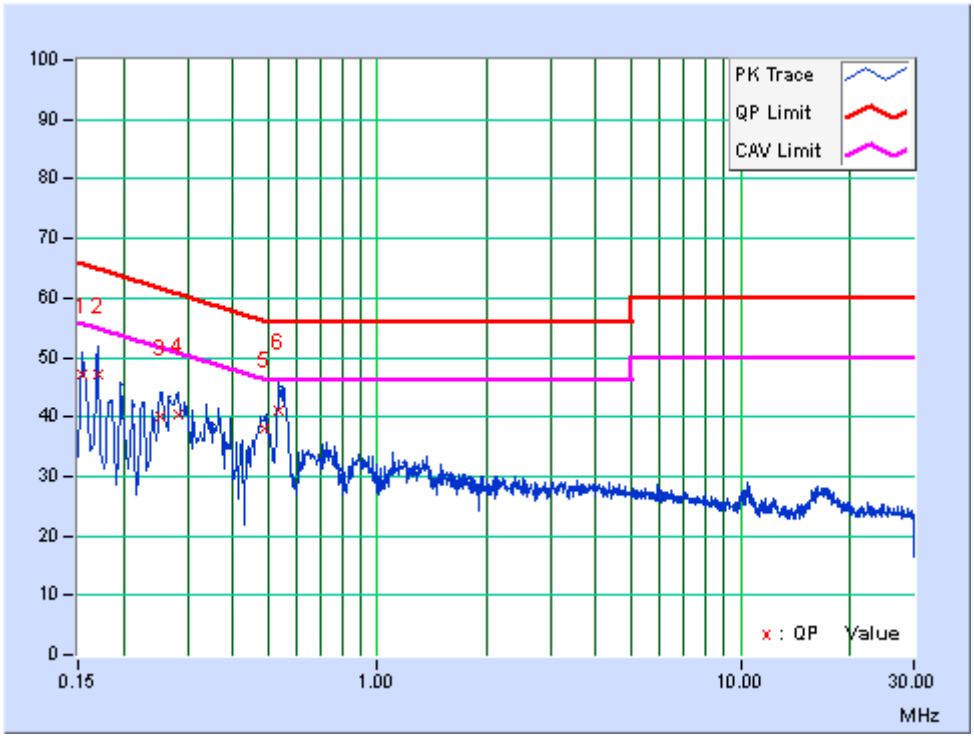
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



PHASE	Neutral	6dB BANDWIDTH	9kHz

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	10.51	36.46	22.67	46.97	33.18	65.79	55.79	-18.81	-22.6
2	0.16955	10.45	36.73	23.15	47.18	33.6	64.98	54.98	-17.8	-21.38
3	0.25192	10.33	29.59	21.82	39.92	32.15	61.69	51.69	-21.77	-19.54
4	0.28288	10.35	30.18	24.02	40.53	34.37	60.73	50.73	-20.2	-16.36
5	0.49194	10.46	27.47	22.38	37.93	32.84	56.13	46.13	-18.21	-13.3
6	**0.53709**	**10.39**	**30.76**	**26.01**	**41.15**	**36.4**	**56**	**46**	**-14.85**	**-9.6**

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

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. As shown in 15.35(b), 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.

4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E4446A	MY46180622	Apr. 24,13	Apr. 23,14
EMI Test Receiver	Rohde&Schwarz	ESVD	847398/003	May 14,13	May 13,14
Bilog Antenna	Teseq	CBL 6111D	27089	Jul. 27, 13	Jul. 26, 14
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	Oct. 19, 12	Oct. 18, 14
Pre-Amplifier (9kHz~1GHz)	SONOMA	310D	186955	Mar. 05,14	Mar. 04,15
Pre-Amplifier (100MHz-26.5GHz)	Agilent	8449B	3008A00409	May 14,13	May 13,14
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8.8m	NSEMC006	Jun. 11, 13	Jun. 10, 14
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 30, 13	Oct. 29, 14
Horn Antenna (15GHz-40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170242	Feb. 13,14	Feb. 12,17
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 04,13	Nov. 03,14
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2. The test was performed in Chamber 10m.

3. The FCC Site Registration No. is 502831.

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4.2.3 TEST PROCEDURES

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. 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 antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

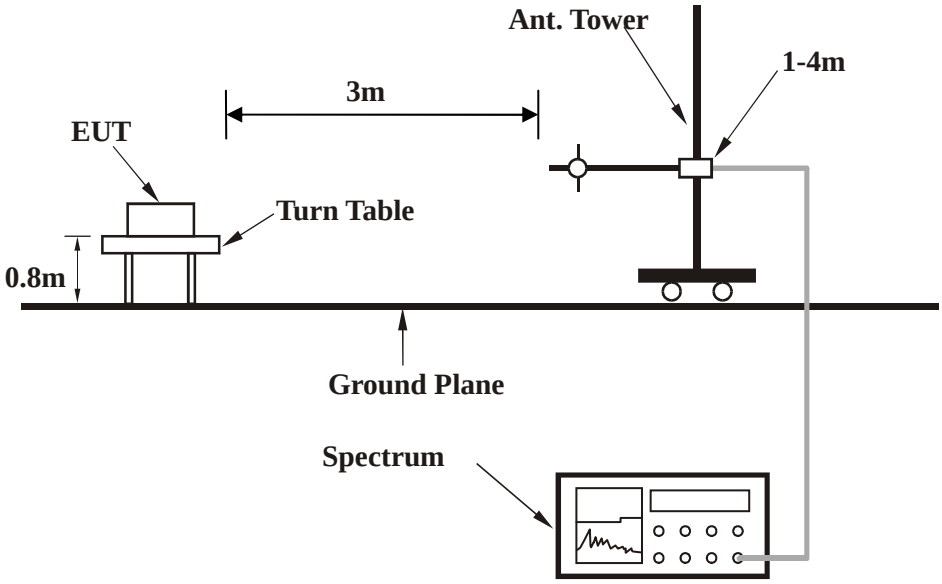
NOTE:

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

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



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

4.2.6 EUT OPERATING CONDITIONS

a. Set the EUT under full load condition and placed them on a testing table.

b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.

c. The necessary accessories enable the EUT in full functions.

4.2.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

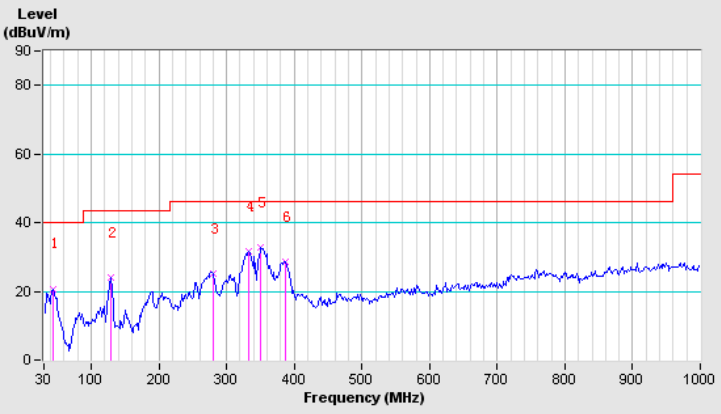
802.11n (20MHz)

CHANNEL	TX Channel 11	**DETECTOR FUNCTION**	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 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	43.69	20.8 QP	40.0	-19.2	1.00 H	169	8.03	12.75
2	128.94	23.9 QP	43.5	-19.6	1.00 H	155	10.36	13.54
3	280.15	25.2 QP	46.0	-20.8	1.00 H	140	9.30	15.90
4	333.23	31.7 QP	46.0	-14.4	1.00 H	120	15.53	16.12
5	350.92	32.8 QP	46.0	-13.2	1.00 H	107	14.58	18.21
6	387.92	28.5 QP	46.0	-17.5	1.00 H	204	9.25	19.28

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.

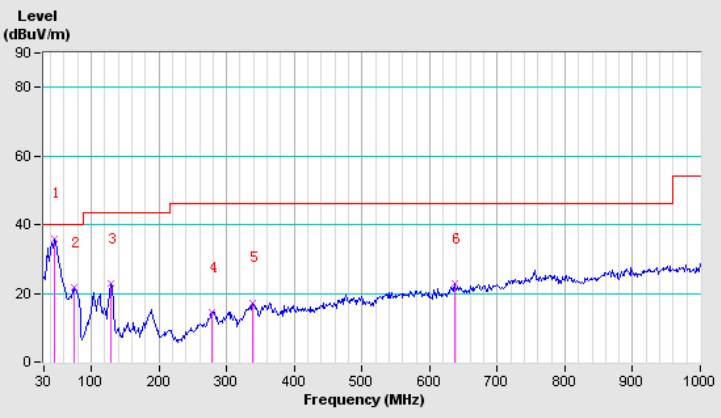


CHANNEL	TX Channel 11	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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	**46.17**	**36.0 QP**	**40.0**	**-4.0**	**1.00 V**	**0**	**24.62**	**11.38**
2	73.65	21.6 QP	40.0	-18.4	1.00 V	0	14.67	6.95
3	128.62	22.7 QP	43.5	-20.8	1.00 V	0	9.18	13.54
4	278.97	14.6 QP	46.0	-31.4	1.00 V	0	-1.30	15.88
5	338.78	17.3 QP	46.0	-28.7	1.00 V	0	0.70	16.61
6	636.25	23.0 QP	46.0	-23.0	1.00 V	0	-2.81	25.77

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.



ABOVE 1GHz DATA

802.11b

CHANNEL	TX Channel 1	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	48.3 PK	74.0	-25.7	1.00 H	197	9.86	38.44
2	2390.00	37.1 AV	54.0	-16.9	1.00 H	197	-1.34	38.44
3	#2400.00	54.9 PK	82.6	-27.7	1.00 H	197	16.44	38.46
4	#2400.00	43.8 AV	78.1	-34.3	1.00 H	197	5.34	38.46
5	*2412.00	102.6 PK			1.00 H	197	64.11	38.49
6	*2412.00	98.1 AV			1.00 H	197	59.61	38.49
7	4824.00	52.4 PK	74.0	-21.6	1.00 H	150	8.91	43.49
8	4824.00	40.6 AV	54.0	-13.4	1.00 H	150	-2.89	43.49
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	49.5 PK	74.0	-24.5	1.00 V	100	11.06	38.44
2	2390.00	37.6 AV	54.0	-16.4	1.00 V	100	-0.84	38.44
3	#2400.00	52.1 PK	87.9	-35.8	1.00 V	100	13.64	38.46
4	#2400.00	42.6 AV	83.2	-40.6	1.00 V	100	4.14	38.46
5	*2412.00	107.9 PK			1.00 V	100	69.45	38.49
6	*2412.00	103.2 AV			1.00 V	100	64.71	38.49
7	4824.00	54.3 PK	74.0	-19.7	1.00 V	210	10.81	43.49
8	4824.00	41.6 AV	54.0	-12.4	1.00 V	210	-1.89	43.49

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	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	100.5 PK			1.00 H	215	61.96	38.54
2	*2437.00	97.7 AV			1.00 H	215	59.16	38.54
3	4874.00	58.4 PK	74.0	-15.6	1.00 H	260	14.86	43.54
4	4874.00	46.1 AV	54.0	-7.9	1.00 H	260	2.56	43.54
5	7311.00	55.4 PK	74.0	-18.6	1.00 H	160	7.34	48.06
6	7311.00	43.2 AV	54.0	-10.8	1.00 H	160	-4.86	48.06
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	*2437.00	105.1 PK			1.00 V	97	66.56	38.54
2	*2437.00	101.3 AV			1.00 V	97	62.76	38.54
3	4874.00	52.7 PK	74.0	-21.3	1.00 V	140	9.16	43.54
4	4874.00	48.5 AV	54.0	-5.5	1.00 V	140	4.96	43.54
5	7311.00	57.4 PK	74.0	-16.6	1.00 V	230	9.34	48.06
6	7311.00	45.9 AV	54.0	-8.1	1.00 V	230	-2.16	48.06

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.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	100.4 PK			1.00 H	217	61.81	38.59
2	*2462.00	96.5 AV			1.00 H	217	57.91	38.59
3	2483.50	49.2 PK	74.0	-24.8	1.00 H	217	10.56	38.64
4	2483.50	37.5 AV	54.0	-16.5	1.00 H	217	-1.14	38.64
5	4924.00	52.5 PK	74.0	-21.5	1.00 H	80	8.91	43.59
6	4924.00	40.3 AV	54.0	-13.7	1.00 H	80	-3.29	43.59
7	7386.00	57.5 PK	74.0	-16.5	4.00 H	130	9.39	48.11
8	7386.00	45.7 AV	54.0	-8.3	4.00 H	130	-2.41	48.11
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	105.9 PK			1.00 V	97	67.31	38.59
2	*2462.00	101.4 AV			1.00 V	97	62.81	38.59
3	2483.50	49.4 PK	74.0	-24.6	1.00 V	97	10.76	38.64
4	2483.50	36.8 AV	54.0	-17.2	1.00 V	97	-1.84	38.64
5	4924.00	53.9 PK	74.0	-20.1	1.00 V	216	10.31	43.59
6	4924.00	42.6 AV	54.0	-11.4	1.00 V	216	-0.99	43.59
7	7386.00	58.1 PK	74.0	-15.9	1.00 V	160	9.99	48.11
8	7386.00	46.3 AV	54.0	-7.7	1.00 V	160	-1.81	48.11

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.

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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**	**69.3 PK**	**74.0**	**-4.7**	**1.00 H**	**177**	**30.86**	**38.44**
2	2390.00	45.2 AV	54.0	-8.8	1.00 H	177	6.76	38.44
3	#2400.00	75.3 PK	87.3	-12.0	1.14 H	177	36.84	38.46
4	#2400.00	54.1 AV	78.3	-24.2	1.14 H	177	15.64	38.46
5	*2412.00	107.3 PK			1.00 H	177	68.81	38.49
6	*2412.00	98.3 AV			1.00 H	177	59.81	38.49
7	4824.00	53.9 PK	74.0	-20.1	1.00 H	210	10.41	43.49
8	4824.00	38.9 AV	54.0	-15.1	1.00 H	210	-4.59	43.49
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	68.3 PK	74.0	-5.7	1.00 V	120	29.86	38.44
2	2390.00	42.6 AV	54.0	-11.4	1.00 V	120	4.16	38.44
3	#2400.00	73.2 PK	84.7	-11.5	1.00 V	180	34.74	38.46
4	#2400.00	50.7 AV	75.2	-24.5	1.00 V	180	12.24	38.46
5	*2412.00	104.7 PK			1.00 V	180	66.21	38.49
6	*2412.00	95.2 AV			1.00 V	180	56.71	38.49
7	4824.00	54.3 PK	74.0	-19.7	1.00 V	154	10.81	43.49
8	4824.00	40.2 AV	54.0	-13.8	1.00 V	154	-3.29	43.49

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	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	101.4 PK			1.00 H	195	62.86	38.54
2	*2437.00	91.5 AV			1.00 H	195	52.96	38.54
3	4874.00	55.9 PK	74.0	-18.1	1.00 H	210	12.36	43.54
4	4874.00	41.6 AV	54.0	-12.4	1.00 H	210	-1.94	43.54
5	7311.00	56.9 PK	74.0	-17.1	1.04 H	213	8.84	48.06
6	7311.00	43.2 AV	54.0	-10.8	1.04 H	213	-4.86	48.06
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	*2437.00	105.0 PK			1.00 V	14	66.46	38.54
2	*2437.00	94.2 AV			1.00 V	14	55.66	38.54
3	4874.00	55.8 PK	74.0	-18.2	1.00 V	52	12.26	43.54
4	4874.00	42.2 AV	54.0	-11.8	1.00 V	52	-1.34	43.54
5	7311.00	56.8 PK	74.0	-17.2	1.20 V	140	8.74	48.06
6	7311.00	43.6 AV	54.0	-10.4	1.20 V	140	-4.46	48.06

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.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	101.2 PK			1.00 H	154	62.61	38.59
2	*2462.00	91.4 AV			1.00 H	154	52.81	38.59
3	2483.50	65.1 PK	74.0	-8.9	1.00 H	154	26.46	38.64
4	2483.50	42.3 AV	54.0	-11.7	1.00 H	154	3.66	38.64
5	4924.00	54.3 PK	74.0	-19.7	1.00 H	211	10.71	43.59
6	4924.00	40.5 AV	54.0	-13.5	1.00 H	211	-3.09	43.59
7	7386.00	56.7 PK	74.0	-17.3	1.00 H	159	8.59	48.11
8	7386.00	43.8 AV	54.0	-10.2	1.00 H	159	-4.31	48.11
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	104.3 PK			1.02 V	154	65.71	38.59
2	*2462.00	94.3 AV			1.02 V	154	55.71	38.59
3	2483.50	68.6 PK	74.0	-5.4	1.00 V	150	29.96	38.64
4	2483.50	43.8 AV	54.0	-10.2	1.00 V	150	5.16	38.64
5	4924.00	53.9 PK	74.0	-20.1	1.00 V	142	10.31	43.59
6	4924.00	39.8 AV	54.0	-14.2	1.00 V	142	-3.79	43.59
7	7386.00	56.4 PK	74.0	-17.6	1.00 V	158	8.29	48.11
8	7386.00	43.5 AV	54.0	-10.5	1.00 V	158	-4.61	48.11

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.

802.11n (20MHz)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	57.6 PK	74.0	-16.4	1.00 H	215	19.16	38.44
2	2390.00	37.6 AV	54.0	-16.4	1.00 H	215	-0.84	38.44
3	#2400.00	67.5 PK	84.5	-17.0	1.00 H	214	29.04	38.46
4	#2400.00	42.3 AV	73.6	-31.3	1.00 H	214	3.84	38.46
5	*2412.00	104.5 PK			1.20 H	125	66.01	38.49
6	*2412.00	93.6 AV			1.20 H	125	55.11	38.49
7	4824.00	54.3 PK	74.0	-19.7	1.02 H	111	10.81	43.49
8	4824.00	39.7 AV	54.0	-14.3	1.02 H	111	-3.79	43.49
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	67.3 PK	74.0	-6.7	1.00 V	210	28.86	38.44
2	2390.00	41.6 AV	54.0	-12.4	1.00 V	210	3.16	38.44
3	#2400.00	70.0 PK	85.6	-15.6	1.00 V	140	31.54	38.46
4	#2400.00	50.2 AV	74.5	-24.3	1.00 V	140	11.74	38.46
5	*2412.00	105.6 PK			1.00 V	151	67.11	38.49
6	*2412.00	94.5 AV			1.00 V	151	56.01	38.49
7	4824.00	55.3 PK	74.0	-18.7	1.40 V	200	11.81	43.49
8	4824.00	42.8 AV	54.0	-11.2	1.40 V	200	-0.69	43.49

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	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	103.2 PK			1.00 H	154	64.66	38.54
2	*2437.00	92.4 AV			1.00 H	154	53.86	38.54
3	4874.00	54.6 PK	74.0	-19.4	1.02 H	112	11.06	43.54
4	4874.00	41.8 AV	54.0	-12.2	1.02 H	112	-1.74	43.54
5	7311.00	56.2 PK	74.0	-17.8	1.00 H	153	8.14	48.06
6	7311.00	42.8 AV	54.0	-11.2	1.00 H	153	-5.26	48.06
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	*2437.00	104.6 PK			1.00 V	152	66.06	38.54
2	*2437.00	93.5 AV			1.00 V	152	54.96	38.54
3	4874.00	55.3 PK	74.0	-18.7	1.00 V	122	11.76	43.54
4	4874.00	42.5 AV	54.0	-11.5	1.00 V	122	-1.04	43.54
5	7311.00	57.3 PK	74.0	-16.7	1.00 V	110	9.24	48.06
6	7311.00	43.5 AV	54.0	-10.5	1.00 V	110	-4.56	48.06

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.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	102.8 PK			1.00 H	144	64.21	38.59
2	*2462.00	92.5 AV			1.00 H	144	53.91	38.59
3	2483.50	62.5 PK	74.0	-11.5	1.00 H	55	23.86	38.64
4	2483.50	42.6 AV	54.0	-11.4	1.00 H	55	3.96	38.64
5	4924.00	54.2 PK	74.0	-19.8	1.00 H	154	10.61	43.59
6	4924.00	40.6 AV	54.0	-13.4	1.00 H	154	-2.99	43.59
7	7386.00	56.3 PK	74.0	-17.7	1.00 H	156	8.19	48.11
8	7386.00	43.1 AV	54.0	-10.9	1.00 H	156	-5.01	48.11
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	104.6 PK			1.00 V	112	66.01	38.59
2	*2462.00	93.5 AV			1.00 V	112	54.91	38.59
3	2483.50	64.3 PK	74.0	-9.7	1.00 V	125	25.66	38.64
4	2483.50	43.2 AV	54.0	-10.8	1.00 V	125	4.56	38.64
5	4924.00	55.1 PK	74.0	-18.9	1.00 V	152	11.51	43.59
6	4924.00	41.0 AV	54.0	-13.0	1.00 V	152	-2.59	43.59
7	7386.00	57.2 PK	74.0	-16.8	1.00 V	174	9.09	48.11
8	7386.00	43.5 AV	54.0	-10.5	1.00 V	174	-4.61	48.11

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.

802.11n (40MHz)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	63.2 PK	74.0	-10.8	1.00 H	141	24.76	38.44
2	2390.00	43.2 AV	54.0	-10.8	1.00 H	141	4.76	38.44
3	#2400.00	65.3 PK	80.5	-15.2	1.00 H	165	26.84	38.46
4	#2400.00	46.3 AV	70.8	-24.5	1.00 H	165	7.84	38.46
5	*2422.00	100.5 PK			1.00 H	215	61.99	38.51
6	*2422.00	90.8 AV			1.00 H	215	52.29	38.51
7	4844.00	53.9 PK	74.0	-20.1	1.00 H	21	10.39	43.51
8	4844.00	40.2 AV	54.0	-13.8	1.00 H	21	-3.31	43.51
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	65.7 PK	74.0	-8.3	1.00 V	211	27.26	38.44
2	2390.00	45.2 AV	54.0	-8.8	1.00 V	211	6.76	38.44
3	#2400.00	67.7 PK	82.2	-14.5	1.00 V	120	29.24	38.46
4	#2400.00	49.3 AV	71.2	-21.9	1.00 V	120	10.84	38.46
5	*2422.00	102.2 PK			1.00 V	102	63.69	38.51
6	*2422.00	91.2 AV			1.00 V	102	52.69	38.51
7	4844.00	54.3 PK	74.0	-19.7	1.02 V	143	10.79	43.51
8	4844.00	41.6 AV	54.0	-12.4	1.02 V	143	-1.91	43.51

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	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	101.2 PK			1.00 H	165	62.66	38.54
2	*2437.00	91.2 AV			1.00 H	165	52.66	38.54
3	4874.00	54.3 PK	74.0	-19.7	1.00 H	210	10.76	43.54
4	4874.00	41.5 AV	54.0	-12.5	1.00 H	210	-2.04	43.54
5	7311.00	56.3 PK	74.0	-17.7	1.00 H	147	8.24	48.06
6	7311.00	43.2 AV	54.0	-10.8	1.00 H	147	-4.86	48.06
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	*2437.00	103.2 PK			1.04 V	320	64.66	38.54
2	*2437.00	92.5 AV			1.04 V	320	53.96	38.54
3	4874.00	54.6 PK	74.0	-19.4	1.00 V	212	11.06	43.54
4	4874.00	42.1 AV	54.0	-11.9	1.00 V	212	-1.44	43.54
5	7311.00	57.2 PK	74.0	-16.8	1.00 V	218	9.14	48.06
6	7311.00	43.5 AV	54.0	-10.5	1.00 V	218	-4.56	48.06

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.

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2452.00	99.6 PK			1.00 H	216	61.03	38.57
2	*2452.00	90.0 AV			1.00 H	216	51.43	38.57
3	2483.50	57.6 PK	74.0	-16.4	1.00 H	155	18.96	38.64
4	2483.50	39.5 AV	54.0	-14.5	1.00 H	155	0.86	38.64
5	4904.00	54.1 PK	74.0	-19.9	1.00 H	140	10.53	43.57
6	4904.00	41.0 AV	54.0	-13.0	1.00 H	140	-2.57	43.57
7	7356.00	56.2 PK	74.0	-17.8	1.00 H	100	8.11	48.09
8	7356.00	42.8 AV	54.0	-11.2	1.00 H	100	-5.29	48.09
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	*2452.00	101.2 PK			1.01 V	220	62.63	38.57
2	*2452.00	91.6 AV			1.01 V	220	53.03	38.57
3	2483.50	59.3 PK	74.0	-14.7	1.00 V	150	20.66	38.64
4	2483.50	40.6 AV	54.0	-13.4	1.00 V	150	1.96	38.64
5	4904.00	54.3 PK	74.0	-19.7	1.00 V	185	10.73	43.57
6	4904.00	41.1 AV	54.0	-12.9	1.00 V	185	-2.47	43.57
7	7356.00	56.6 PK	74.0	-17.4	1.00 V	154	8.51	48.09
8	7356.00	42.8 AV	54.0	-11.2	1.00 V	154	-5.29	48.09

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.

BELOW 1GHz DATA:

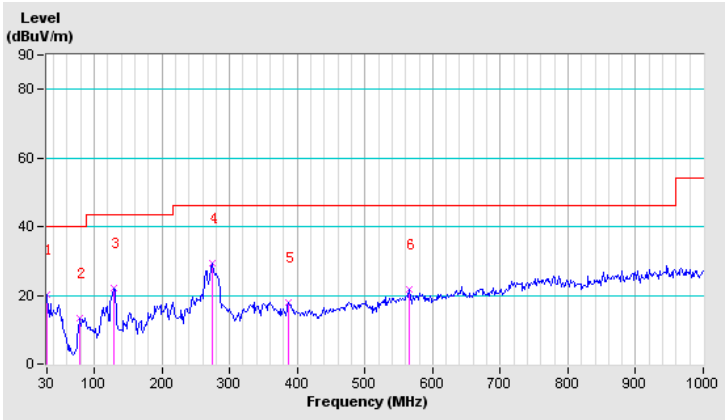
BT_LE-GFSK

CHANNEL	TX Channel 39	**DETECTOR FUNCTION**	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 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	30.00	20.1 QP	40.0	-19.9	1.00 H	126	0.27	19.84
2	78.50	13.4 QP	40.0	-26.6	1.00 H	202	5.64	7.73
3	128.62	22.2 QP	43.5	-21.3	1.00 H	141	8.64	13.54
4	274.12	29.4 QP	46.0	-16.6	1.00 H	155	13.63	15.80
5	387.28	17.9 QP	46.0	-28.2	1.00 H	169	-1.37	19.22
6	565.12	21.7 QP	46.0	-24.4	1.00 H	183	-3.41	25.06

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.

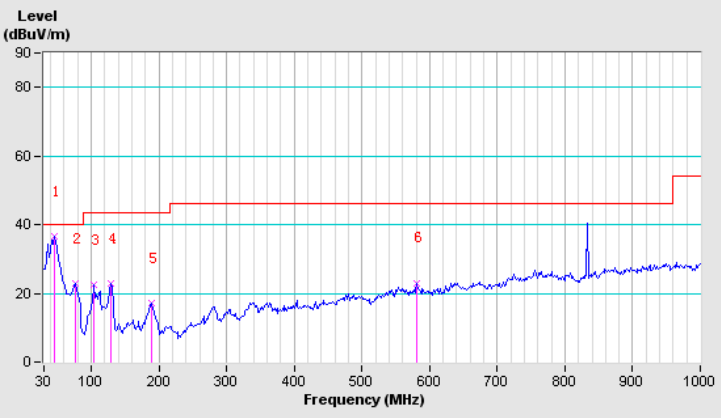


CHANNEL	TX Channel 39	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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	**46.17**	**36.5 QP**	**40.0**	**-3.5**	**1.00 V**	**292**	**25.10**	**11.38**
2	76.88	22.7 QP	40.0	-17.3	1.00 V	205	15.23	7.47
3	104.37	22.4 QP	43.5	-21.1	1.00 V	188	10.30	12.09
4	128.62	22.8 QP	43.5	-20.7	1.00 V	266	9.27	13.54
5	188.43	17.3 QP	43.5	-26.2	1.00 V	175	6.82	10.45
6	581.28	23.0 QP	46.0	-23.0	1.00 V	144	-1.90	24.94

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.



ABOVE 1GHz DATA

BT_LE-GFSK

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	51.4 PK	74.0	-22.6	1.20 H	222	12.96	38.44
2	2390.00	39.5 AV	54.0	-14.5	1.20 H	222	1.06	38.44
3	#2400.00	57.6 PK	82.6	-25.0	1.02 H	106	19.14	38.46
4	#2400.00	43.8 AV	56.6	-12.8	1.02 H	106	5.34	38.46
5	*2402.00	102.6 PK			1.00 H	210	64.14	38.46
6	*2402.00	76.6 AV			1.00 H	210	38.14	38.46
7	4804.00	53.4 PK	74.0	-20.6	1.00 H	211	9.93	43.47
8	4804.00	40.5 AV	54.0	-13.5	1.00 H	211	-2.97	43.47
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	50.6 PK	74.0	-23.4	1.00 V	312	12.16	38.44
2	2390.00	39.5 AV	54.0	-14.5	1.00 V	312	1.06	38.44
3	#2400.00	56.3 PK	84.6	-28.3	1.00 V	142	17.84	38.46
4	#2400.00	43.5 AV	58.2	-14.7	1.00 V	142	5.04	38.46
5	*2402.00	104.6 PK			1.20 V	152	66.14	38.46
6	*2402.00	78.2 AV			1.20 V	152	39.74	38.46
7	4804.00	54.6 PK	74.0	-19.4	1.00 V	224	11.13	43.47
8	4804.00	41.8 AV	54.0	-12.2	1.00 V	224	-1.67	43.47

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.
7. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 * 5 per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: 20log(3.125 / 100)= -30.1 dB.
8. Average value = peak reading + 20log(duty cycle).

CHANNEL	TX Channel 19	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2440.00	101.2 PK			1.00 H	285	62.66	38.54
2	*2440.00	75.3 AV			1.00 H	285	36.76	38.54
3	4880.00	55.4 PK	74.0	-18.6	1.00 H	23	11.85	43.55
4	4880.00	41.2 AV	54.0	-12.8	1.00 H	23	-2.35	43.55
5	7320.00	56.8 PK	74.0	-17.2	1.00 H	42	8.74	48.06
6	7320.00	43.4 AV	54.0	-10.6	1.00 H	42	-4.66	48.06
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	*2440.00	103.0 PK			1.00 V	241	64.46	38.54
2	*2440.00	76.9 AV			1.00 V	241	38.36	38.54
3	4880.00	56.3 PK	74.0	-17.7	1.00 V	254	12.75	43.55
4	4880.00	42.5 AV	54.0	-11.5	1.00 V	254	-1.05	43.55
5	7320.00	57.6 PK	74.0	-16.4	1.02 V	211	9.54	48.06
6	7320.00	43.6 AV	54.0	-10.4	1.02 V	211	-4.46	48.06

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 DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 * 5 per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: 20log(3.125 / 100)= -30.1 dB.
7. Average value = peak reading + 20log(duty cycle).

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	98.6 PK			1.00 H	292	59.97	38.63
2	*2480.00	72.3 AV			1.00 H	292	33.67	38.63
3	2483.50	56.6 PK	74.0	-17.4	1.00 H	210	17.96	38.64
4	2483.50	41.2 AV	54.0	-12.8	1.00 H	210	2.56	38.64
5	4960.00	54.3 PK	74.0	-19.7	1.00 H	215	10.67	43.63
6	4960.00	41.2 AV	54.0	-12.8	1.00 H	215	-2.43	43.63
7	7440.00	57.6 PK	74.0	-16.4	1.00 H	360	9.45	48.15
8	7440.00	43.6 AV	54.0	-10.4	1.00 H	360	-4.55	48.15
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	100.0 PK			1.00 V	225	61.37	38.63
2	*2480.00	74.6 AV			1.00 V	225	35.97	38.63
3	2483.50	57.6 PK	74.0	-16.4	1.00 V	274	18.96	38.64
4	2483.50	42.6 AV	54.0	-11.4	1.00 V	274	3.96	38.64
5	4960.00	54.6 PK	74.0	-19.4	1.00 V	265	10.97	43.63
6	4960.00	42.1 AV	54.0	-11.9	1.00 V	265	-1.53	43.63
7	7440.00	57.4 PK	74.0	-16.6	1.00 V	233	9.25	48.15
8	**7440.00**	**43.7 AV**	**54.0**	**-10.3**	**1.00 V**	**233**	**-4.45**	**48.15**

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 DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 * 5 per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: 20log(3.125 / 100)= -30.1 dB.
7. Average value = peak reading + 20log(duty cycle).

4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer (9KHz–40GHz)	Agilent	E4446A	MY46180622	Apr. 24,13	Apr. 23,14
Spectrum Analyzer (9KHz-25GHz)	Agilent	E7405A	MY45118807	May 14,13	May 13,14
Power Meter	Anritsu	ML2495A	1139001	Feb. 21,14	Feb. 20,15
Power Sensor	Anritsu	MA2411B	1126068	Feb. 21,14	Feb. 20,15
Digital Multimeter	FLUKE	15B	A1220010D G	Oct. 30, 13	Oct. 29, 14

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2. The test was performed in Oven room

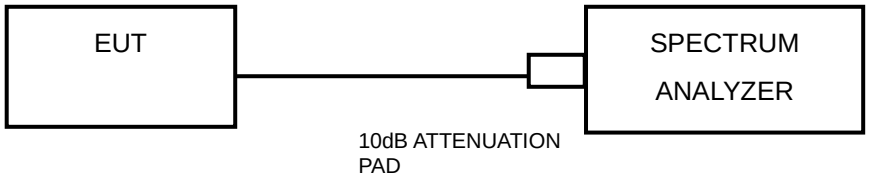
4.3.3 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.3.4 .DEVIATION FROM TEST STANDARD

No deviation.

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 TEST RESULTS

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	9.16	0.5	PASS
6	2437	9.16	0.5	PASS
11	2462	9.14	0.5	PASS

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.45	0.5	PASS
6	2437	16.44	0.5	PASS
11	2462	16.42	0.5	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	17.66	0.5	PASS
6	2437	17.67	0.5	PASS
11	2462	17.65	0.5	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
3	2422	36.45	0.5	PASS
6	2437	36.47	0.5	PASS
9	2452	36.46	0.5	PASS

BT-LE (GFSK)

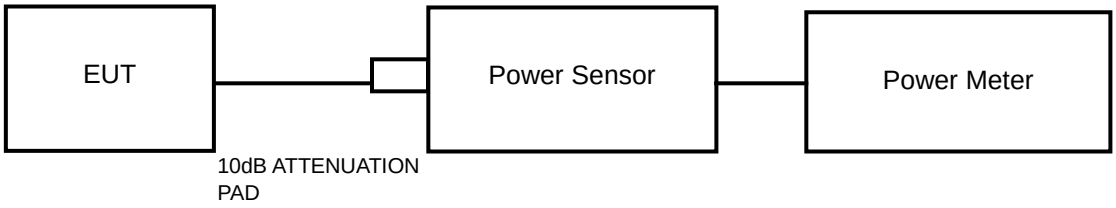
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.68	0.5	PASS
19	2440	0.69	0.5	PASS
39	2480	0.69	0.5	PASS

4.4 CONDUCTED OUTPUT POWER

4.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz band: 1 Watt (30dBm)

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Refer to section 4.3.2 to get information of above instrument.

4.4.4 TEST PROCEDURES

A power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

4.4.6 EUT OPERATING CONDITIONS

Same as item 4.3.6.

4.4.7 TEST RESULTS

4.4.7.1 MAXIMUM PEAK OUTPUT POWER

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	16.54	30	PASS
6	2437	16.47	30	PASS
11	2462	16.89	30	PASS

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	21.01	30	PASS
6	2437	21.13	30	PASS
11	2462	21.31	30	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
1	2412	21.28	30	PASS
6	2437	21.65	30	PASS
11	2462	21.83	30	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
3	2422	21.11	30	PASS
6	2437	21.27	30	PASS
9	2452	21.39	30	PASS

BT-LE (GFSK)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
0	2402	1.50	30	PASS
19	2440	1.26	30	PASS
39	2480	1.94	30	PASS

4.4.7.2 AVERAGE OUTPUT POWER (FOR REFERENCE)

The average power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
1	2412	13.05	N/A
6	2437	13.29	N/A
11	2462	13.64	N/A

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
1	2412	13.03	N/A
6	2437	13.18	N/A
11	2462	13.30	N/A

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
1	2412	13.01	N/A
6	2437	13.38	N/A
11	2462	13.56	N/A

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
3	2422	12.91	N/A
6	2437	13.14	N/A
9	2452	13.23	N/A

BT-LE (GFSK)

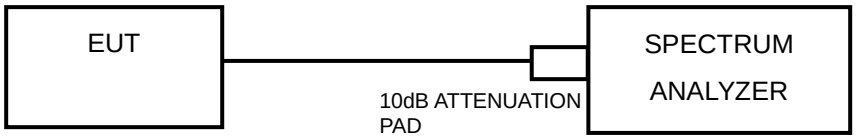
CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
0	2402	-0.40	N/A
19	2440	-0.65	N/A
39	2480	0.03	N/A

4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

4.5.2 TEST SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.3.2 to get information of above instrument.

4.5.4 TEST PROCEDURE

1. Set the span to 1.5 times the DTS bandwidth
2. Set the RBW = 100 kHz, VBW ≥ 3 x RBW, Detector = peak.
3. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

4.5.6 EUT OPERATING CONDITION

Same as item 4.3.6

4.5.7 TEST RESULTS

802.11b

Channel	FREQ. (MHz)	PSD (dBm/100kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	5.05	8	PASS
6	2437	5.46	8	PASS
11	2462	5.64	8	PASS

802.11g

Channel	FREQ. (MHz)	PSD (dBm/100kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-0.43	8	PASS
6	2437	0.08	8	PASS
11	2462	0.11	8	PASS

802.11n (20MHz)

Channel	FREQ. (MHz)	PSD (dBm/100kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-0.07	8	PASS
6	2437	0.28	8	PASS
11	2462	0.42	8	PASS

802.11n (40MHz)

Channel	FREQ. (MHz)	PSD (dBm/100kHz)	Limit (dBm/3kHz)	PASS /FAIL
3	2422	-3.47	8	PASS
6	2437	-3.32	8	PASS
9	2452	-3.10	8	PASS

BT-LE (GFSK)

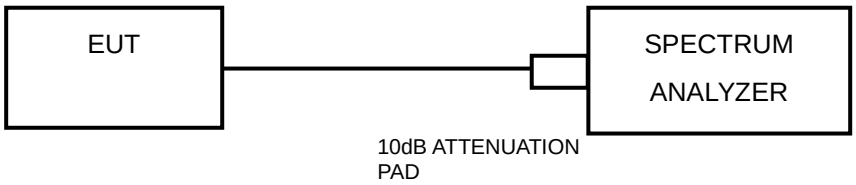
Channel	FREQ. (MHz)	PSD (dBm/100kHz)	Limit (dBm/3kHz)	PASS /FAIL
3	2422	-1.08	8	PASS
6	2437	-2.23	8	PASS
9	2452	-1.25	8	PASS

4.6 OUT OF BAND EMISSION MEASUREMENT

4.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 TEST SETUP



4.6.3 TEST INSTRUMENTS

Refer to section 4.3.2 to get information of above instrument.

4.6.4 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW ≥ 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOBE

1. Set RBW = 100 kHz.
2. Set VBW ≥ 300 kHz.
3. Ensure that the number of measurement points ⩾ span/RBW
4. According to measurement points to set differ measurement span.
5. Detector = peak.
6. Trace Mode = max hold.
7. Sweep = auto couple.

4.6.5 DEVIATION FROM TEST STANDARD

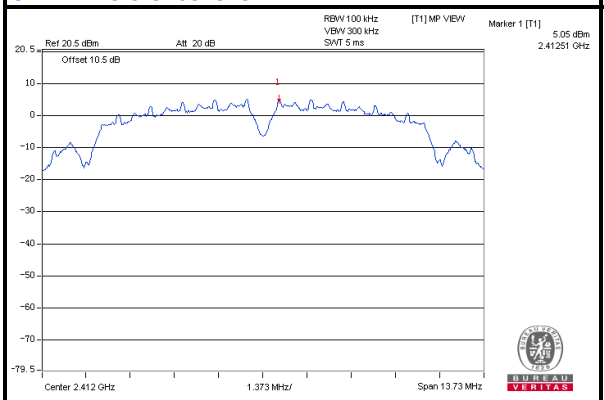
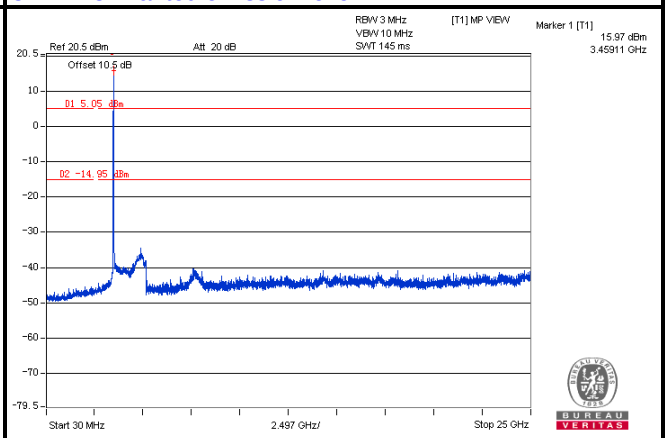
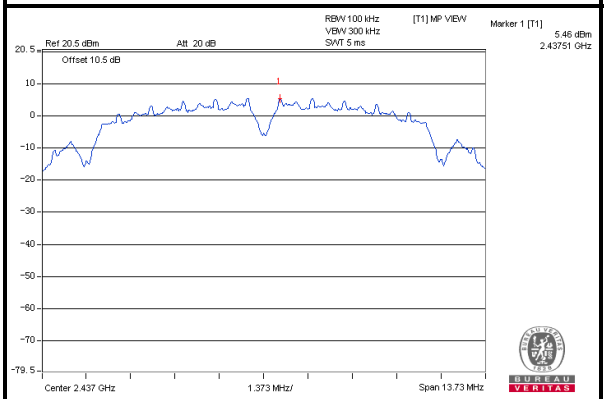
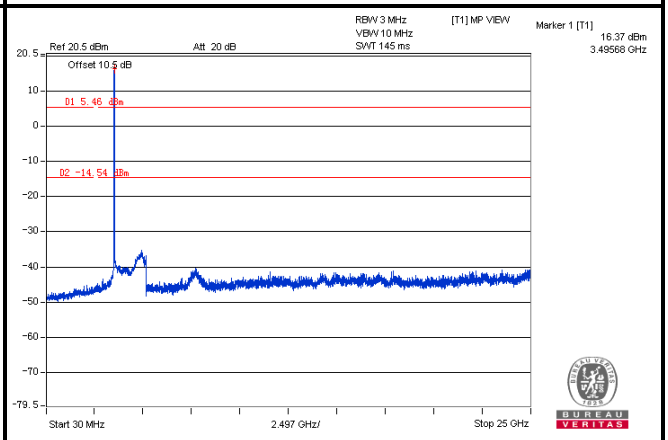
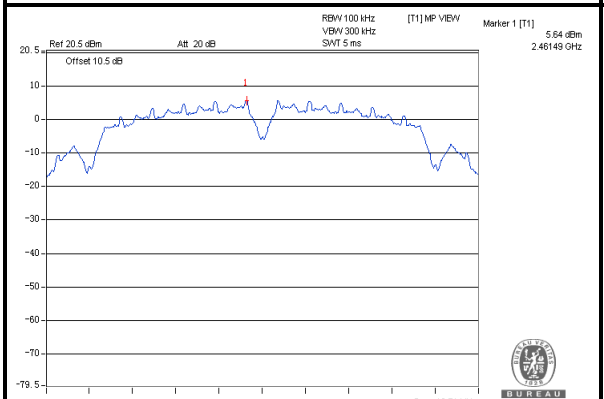
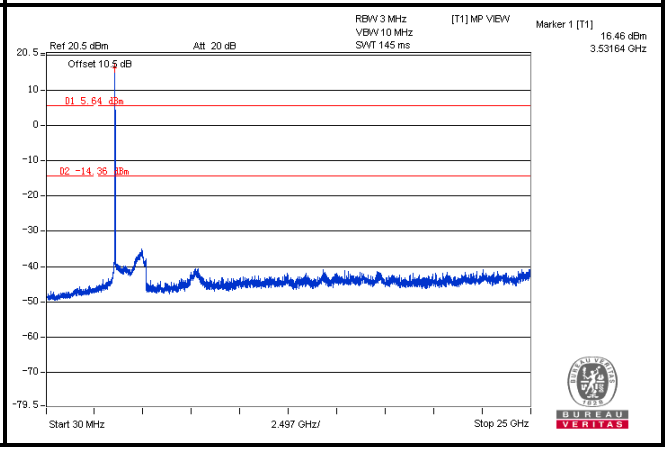
No deviation.

4.6.6 EUT OPERATING CONDITION

Same as item 4.3.6

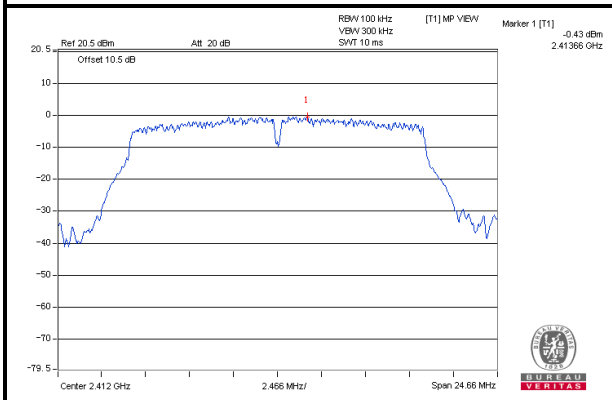
4.6.7 TEST RESULTS

802.11b

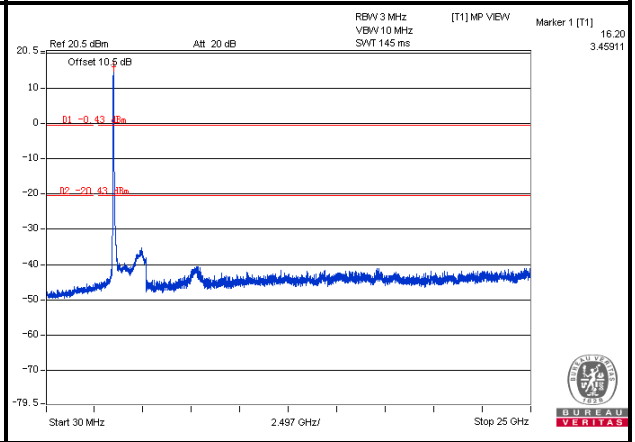
CH 1 – Reference level	CH 1 – Unwanted emission level
	
CH 6– Reference level	**CH 6 – Unwanted emission level**
	
CH 11 – Reference level	**CH 11 –Unwanted emission level**
	

802.11g

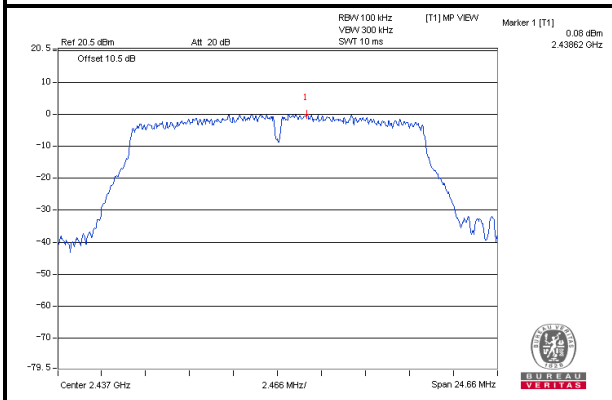
CH 1 – Reference level



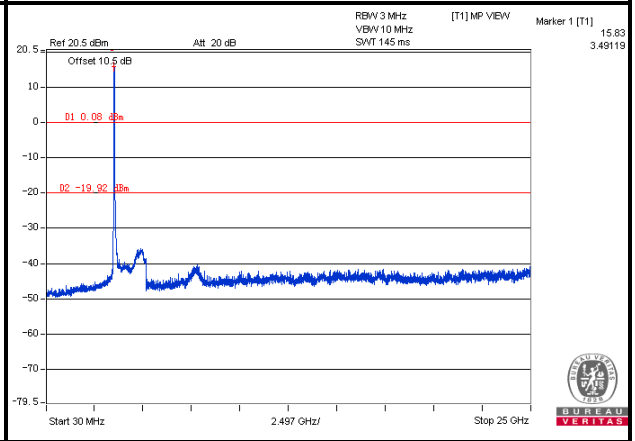
CH 1 – Unwanted emission level



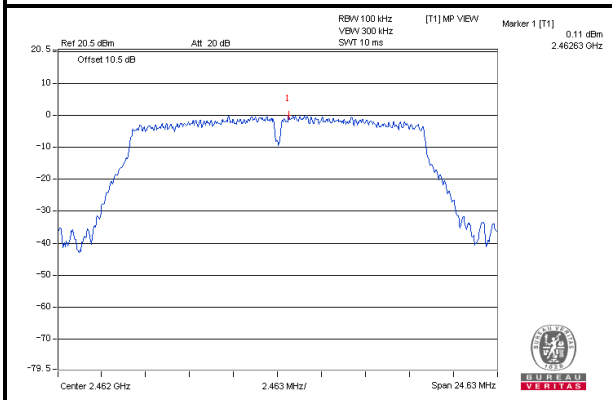
CH 6– Reference level



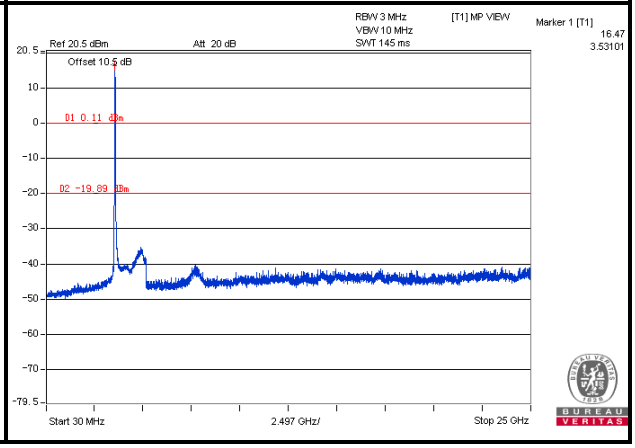
CH 6 – Unwanted emission level



CH 11 – Reference level

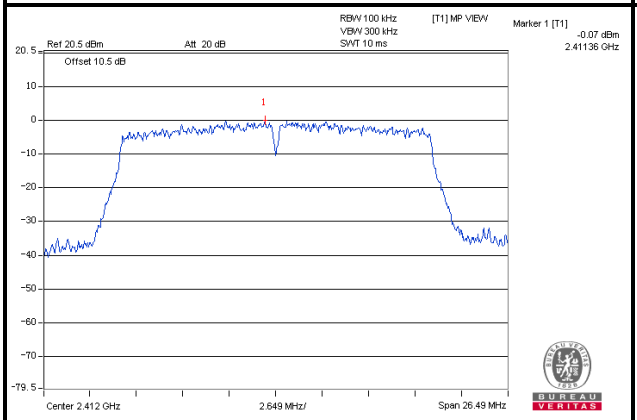


CH 11 –Unwanted emission level

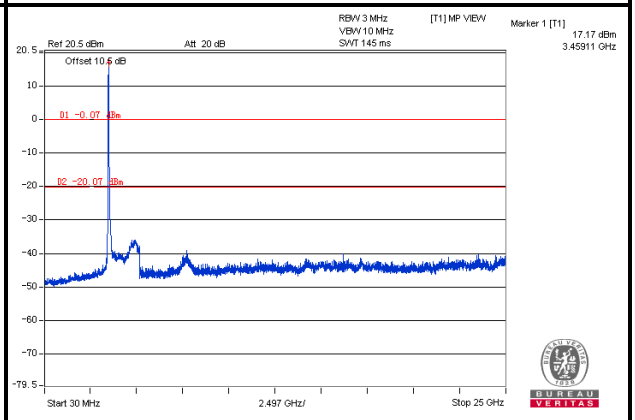


802.11n (20MHz)

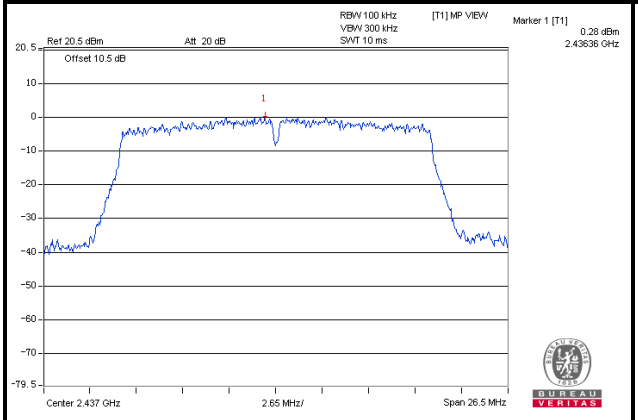
CH 1 – Reference level



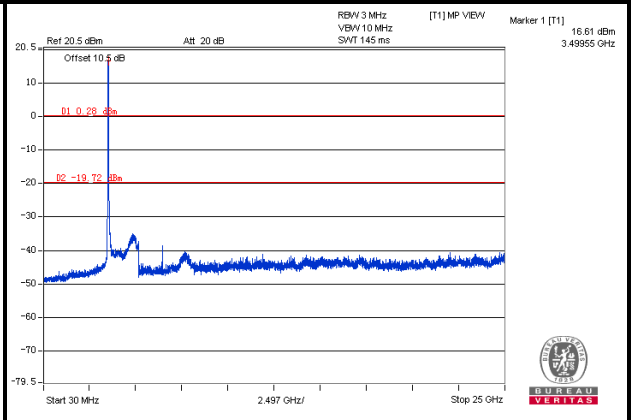
CH 1 – Unwanted emission level



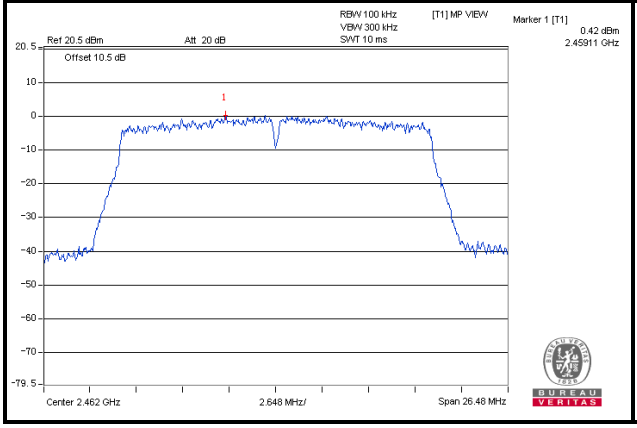
CH 6– Reference level



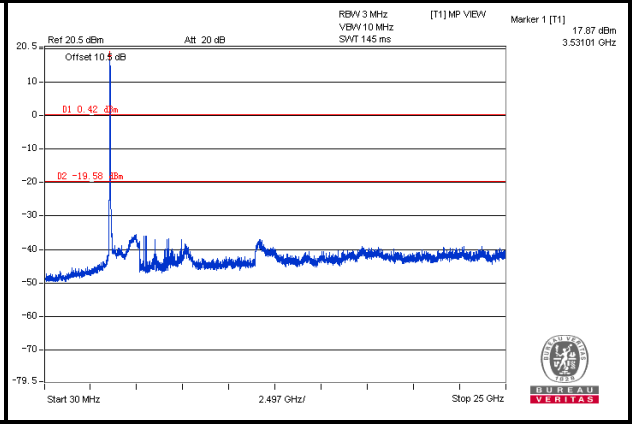
CH 6 – Unwanted emission level



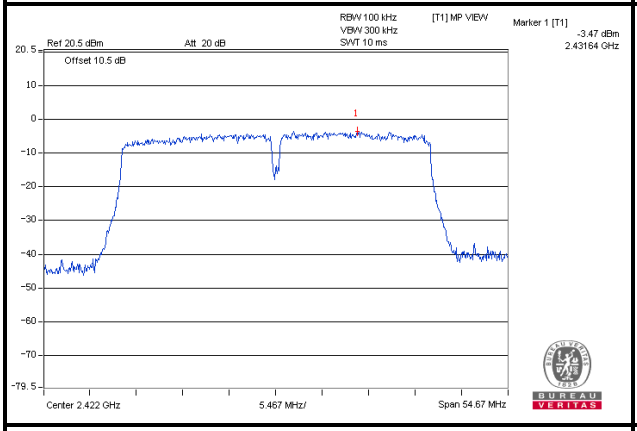
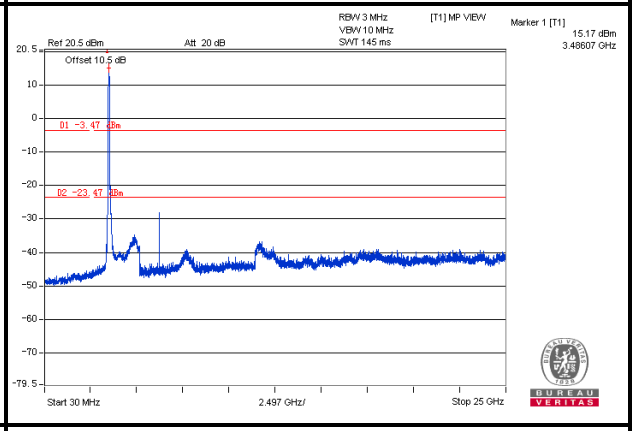
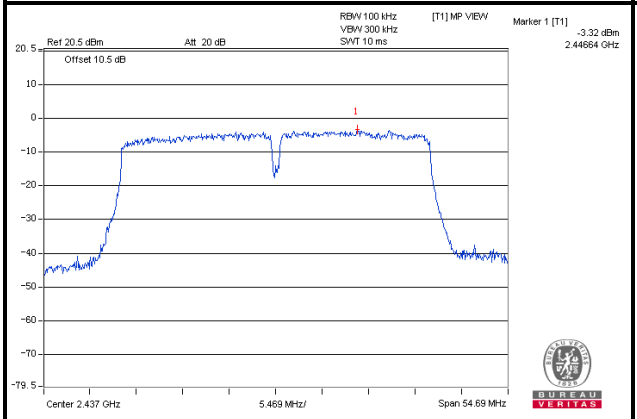
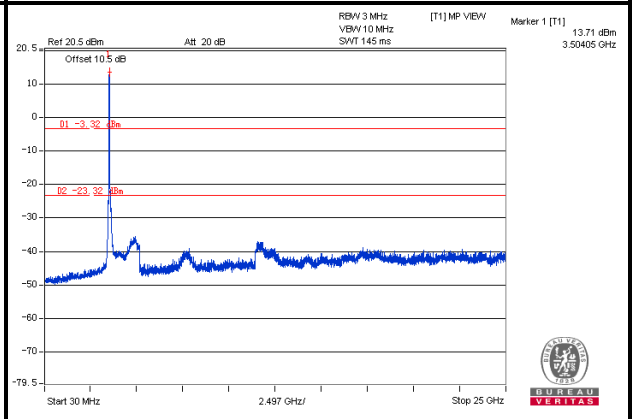
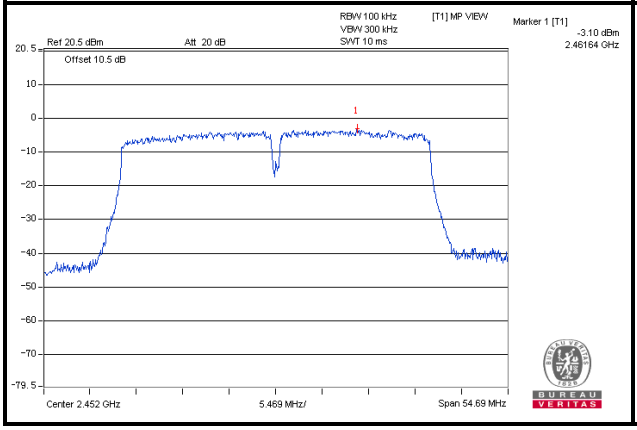
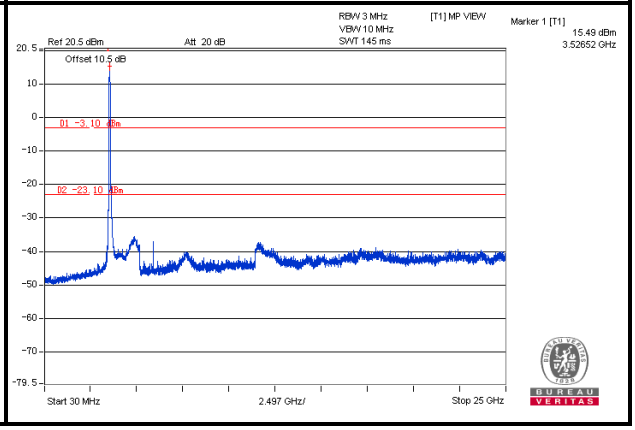
CH 11 – Reference level



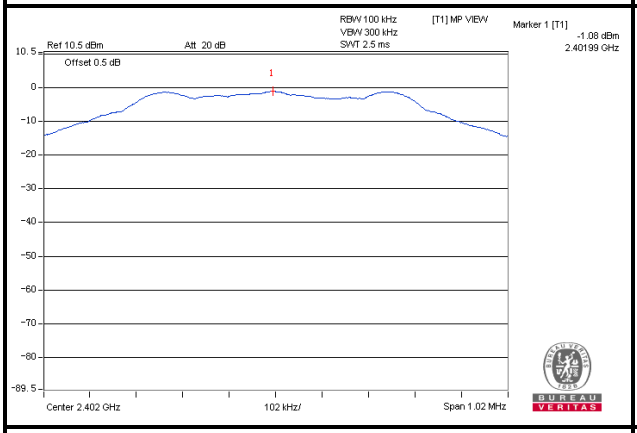
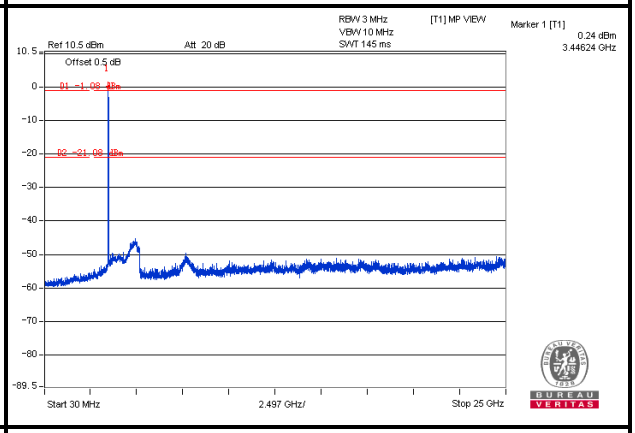
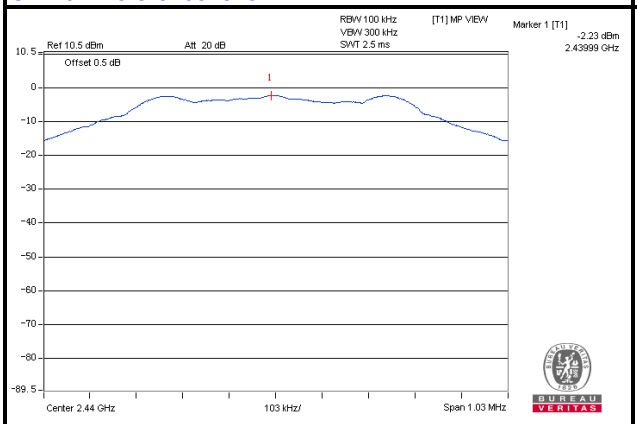
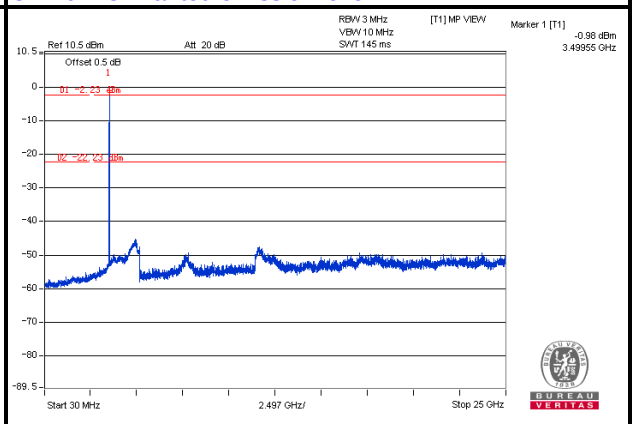
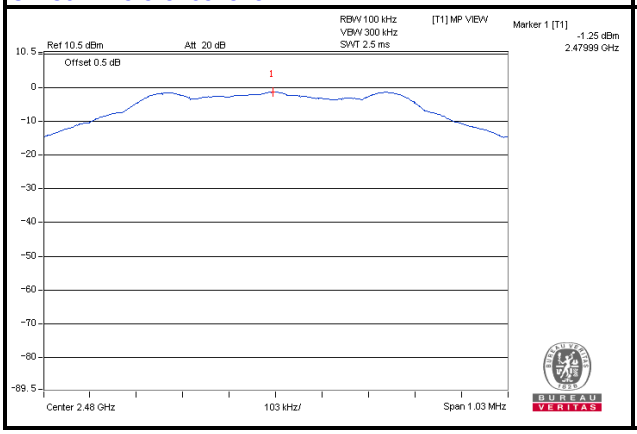
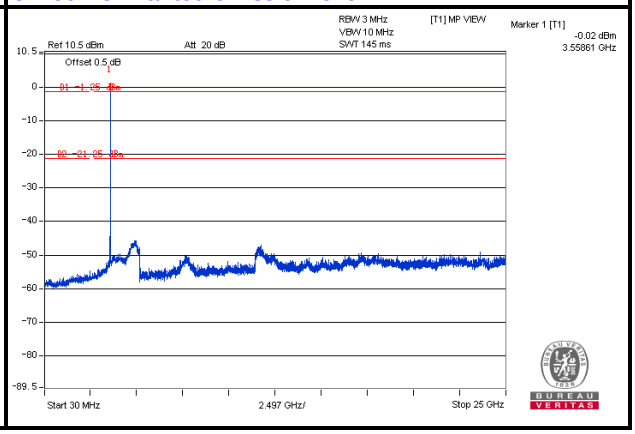
CH 11 –Unwanted emission level



802.11n (40MHz)

CH 3 – Reference level	CH 3 – Unwanted emission level
	
CH 6– Reference level	**CH 6 – Unwanted emission level**
	
CH 9 – Reference level	**CH 9 –Unwanted emission level**
	

BT-LE (GFSK)

CH 0– Reference level	CH 0– Unwanted emission level
	
CH 19– Reference level	**CH 19 – Unwanted emission level**
	
CH 39 – Reference level	**CH 39 –Unwanted emission level**
	

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

6 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---