



International Certification Corp.

No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.

Tel: 886-3-271-8666

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FCC C2PC Test Report

FCC ID : SQGBT800
Equipment : BTv4.0 Dual Mode USB Dongle
Model No. : BT820
Brand Name : Laird Technologies
Applicant : Laird Technologies
Address : 11160 Thompson Ave. / Lenexa, Kansas /
66219 / USA
Standard : 47 CFR FCC Part 15.247
Received Date : Jun. 25, 2013
Tested Date : Jun. 28 ~ Jul. 01, 2013

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:


Gary Chang / Manager





Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Test Setup Chart.....	7
1.3	Local Support Equipment List.....	7
1.4	The Equipment List.....	8
1.5	Test Standards.....	9
1.6	Measurement Uncertainty	10
2	TEST CONFIGURATION	11
2.1	Testing Condition	11
2.2	The Worst Test Modes and Channel Details.....	11
3	TRANSMITTER TEST RESULTS.....	12
3.1	AC Power Line Conducted Emissions.....	12
3.2	Unwanted Emissions into Restricted Frequency Bands.....	15



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Release Record

Report No.	Version	Description	Issued Date
FR362601-01AD	Rev. 01	Initial issue	Aug. 09, 2013



Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.182MHz 53.68 (Margin 10.74dB) - QP	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 32.14MHz 37.55 (Margin 2.45dB) - QP	Pass
15.247(d)	Band Edge	---	N/A
15.247(b)(1)	Conducted Output Power	---	N/A
15.247(a)(1)(iii)	Number of Hopping Channels	---	N/A
15.247(a)(1)	Hopping Channel Separation	---	N/A
15.247(a)(1)(iii)	Dwell Time	---	N/A
15.203	Antenna Requirement	---	N/A



1 General Description

1.1 Information

1.1.1 Product Details

This report is prepared for FCC class II permissive change. The difference compared with original design is model BT820 adding plastics housing to change type from modular to non-modular. In this report, conducted emission and radiated emission tests of BT820 had been re-tested and only its data was recorded in the following sections.

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information				
Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number	Data Rate
2400-2483.5	BR V2.1	2402-2480	0-78 [79]	1 Mbps
2400-2483.5	EDR V2.1	2402-2480	0-78 [79]	2 Mbps
2400-2483.5	EDR V2.1	2402-2480	0-78 [79]	3 Mbps

Note 1: RF output power specifies that Maximum Peak Conducted Output Power.
Note 2: Bluetooth BR uses a GFSK.
Note 3: Bluetooth EDR uses a combination of $\pi/4$ -DQPSK and 8DPSK.

1.1.3 Antenna Details

Ant. No.	Brand	Type	Gain (dBi)	Connector	Model
1	ACX	Chip	0.5	N/A	AT3216-B2R7HAA_3216



1.1.4 EUT Operational Condition

Supply Voltage	<input type="checkbox"/> AC mains	<input checked="" type="checkbox"/> DC (5V)	
Type of DC Source	<input type="checkbox"/> Internal DC supply	<input type="checkbox"/> External DC adapter	<input checked="" type="checkbox"/> From Host

1.1.5 Accessories

N/A

1.1.6 Channel List

Frequency band (MHz)				2400~2483.5			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		



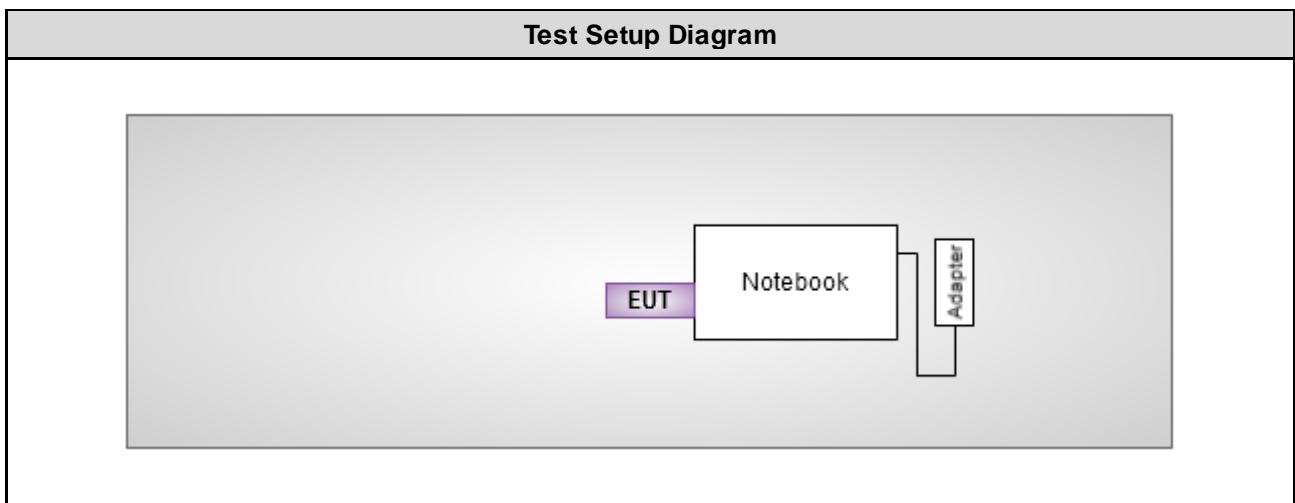
1.1.7 Test Tool

Test tool	Blue Tool V2.5
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1.1.8 Power Setting

Modulation Mode	Test Frequency (MHz)		
	2402	2440	2480
GFSK/1Mbps	255,63	255,63	255,63
8DPSK/3Mbps	255,63	255,63	255,63

1.2 Test Setup Chart



1.3 Local Support Equipment List

Support Equipment List						
No.	Equipment	Brand	Model	S/N	FCC ID	Length (m)
1	Notebook	DELL	E6430	---	---	---



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
EMC Receiver	R&S	ESCS 30	100169	Dec. 12, 2012	Dec. 11, 2013
LISN	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-667	Dec. 04, 2012	Dec. 03, 2013
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-666	Dec. 04, 2012	Dec. 03, 2013
ISN	TESEQ	ISN T800	34406	Apr. 08, 2013	Apr. 07, 2014
ISN	TESEQ	ISN T200A	30494	Apr. 09, 2013	Apr. 08, 2014
ISN	TESEQ	ISN T8-Cat6	27262	Sep. 17, 2012	Sep. 16, 2013
ISN	TESEQ	ISN ST08	22589	Jan. 24, 2013	Jan. 23, 2014
RF Current Probe	FCC	F-33-4	121630	Dec. 04, 2012	Dec. 03, 2013
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Dec. 25, 2012	Dec. 24, 2013
ESH3-Z6 V-Network(+)	R&S	ESH3-Z6	100920	Nov 21, 2012	Nov 20, 2013
ESH3-Z6 V-Network(-)	R&S	ESH3-Z6	100951	Jan. 03, 2013	Jan. 02, 2014
Two-Line V-Network	R&S	ENV216	101579	Jan. 07, 2013	Jan. 06, 2014
50 ohm terminal	NA	50	01	Apr. 22, 2013	Apr. 21, 2014
50 ohm terminal	NA	50	02	Apr. 22, 2013	Apr. 21, 2014
50 ohm terminal	NA	50	03	Apr. 22, 2013	Apr. 21, 2014
50 ohm terminal (Support Unit)	NA	50	04	Apr. 22, 2013	Apr. 21, 2014

Note: Calibration Interval of instruments listed above is one year.



Test Item	Radiated Emission above 1GHz				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
3m semi-anechoic chamber	CHAMPRO	SAC-03	03CH01-WS	Jan. 04, 2013	Jan. 03, 2014
Spectrum Analyzer	R&S	FSV40	101498	Jan. 24, 2013	Jan. 23, 2014
Receiver	ROHDE&SCHWARZ	ESR3	101658	Jan. 28, 2013	Jan. 27, 2014
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jan. 11, 2013	Jan. 10, 2014
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Feb. 18, 2013	Feb. 17, 2014
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Jan. 14, 2013	Jan. 13, 2014
Amplifier	Burgeon	BPA-530	100219	Nov. 28, 2012	Nov. 27, 2013
Amplifier	Agilent	83017A	MY39501308	Dec. 18, 2012	Dec. 17, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable-R03m	Woken	CFD400NL-LW	CFD400NL-001	Dec. 25, 2012	Dec. 24, 2013
RF Cable-R10m	Woken	CFD400NL-LW	CFD400NL-002	Dec. 25, 2012	Dec. 24, 2013
control	EM Electronics	EM1000	60612	N/A	N/A
Note: Calibration Interval of instruments listed above is one year.					

Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014
Amplifier	MITEQ	AMF-6F-260400	9121372	Apr. 19, 2013	Apr. 18, 2015
Note: Calibration Interval of instruments listed above is two year.					

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

FCC Public notice DA00-705

ANSI C63.10-2009

Note: The EUT has been tested and complied with FCC part 15B requirement. FCC Part 15B test results are issued to another report.



1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$))

Measurement Uncertainty	
Parameters	Uncertainty
AC conducted emission	± 2.43 dB
Radiated emission	± 2.49 dB



2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	22°C / 52%	Skys Huang
Radiated Emissions	03CH01-WS	25°C / 65%	Haru Yang

➤ FCC site registration No.: 657002

➤ IC site registration No.: 10807A-2

2.2 The Worst Test Modes and Channel Details

Test item	Mode	Test Frequency (MHz)	Data rate (Mbps)	Test Configuration
AC Power Line Conducted Emissions	GFSK	2480	1Mbps	---
Radiated Emissions (below 1GHz)	GFSK	2480	1Mbps	---
Radiated Emissions (above 1GHz)	GFSK	2480	1Mbps	---



3 Transmitter Test Results

3.1 AC Power Line Conducted Emissions

3.1.1 Limit of AC Power Line Conducted Emissions

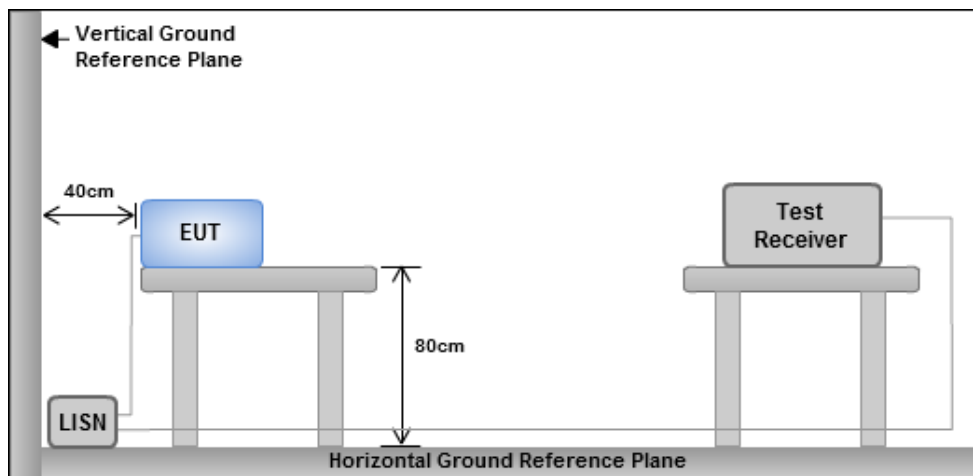
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V/60Hz

3.1.3 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 cm from other units and other metal planes



3.1.4 Test Result of Conducted Emissions

Modulation Mode	GFSK	Test Freq. (MHz)	2480
Power Phase	Line		

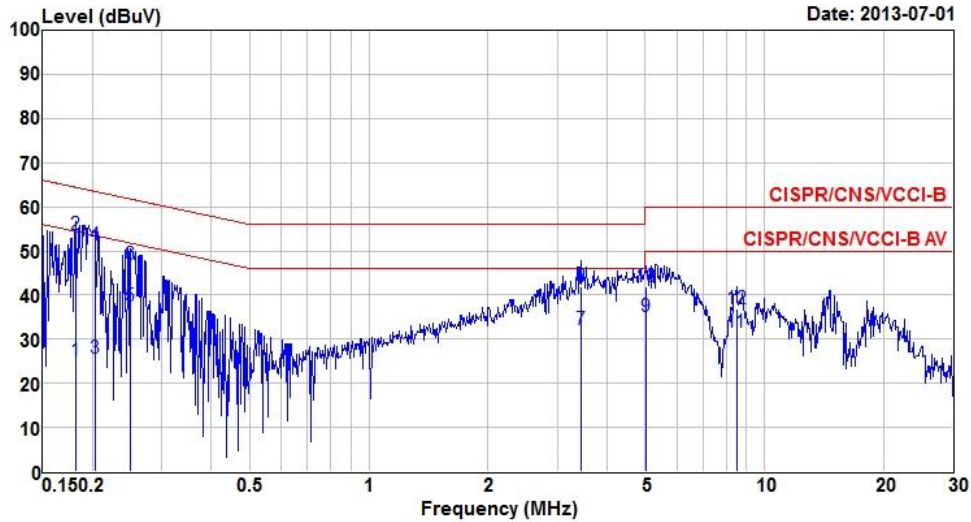
Date: 2013-07-01

	Freq	Level	Limit	Over	Read	LISN	cable	Remark
	MHz	dBuV	Line	Limit	Level	factor	loss	
			dBuV	dB	dBuV	dB	dB	
1	0.182	35.36	54.37	-19.01	35.19	0.03	0.14	Average
2	0.182	53.29	64.37	-11.08	53.12	0.03	0.14	QP
3	0.201	30.41	53.58	-23.17	30.20	0.03	0.18	Average
4	0.201	50.92	63.58	-12.66	50.71	0.03	0.18	QP
5	0.247	26.92	51.86	-24.94	26.75	0.03	0.14	Average
6	0.247	46.74	61.86	-15.12	46.57	0.03	0.14	QP
7	3.661	33.55	46.00	-12.45	33.26	0.06	0.23	Average
8	3.661	40.96	56.00	-15.04	40.67	0.06	0.23	QP
9	5.476	36.02	50.00	-13.98	35.75	0.07	0.20	Average
10	5.476	41.61	60.00	-18.39	41.34	0.07	0.20	QP
11	14.517	25.75	50.00	-24.25	25.50	0.12	0.13	Average
12	14.517	35.72	60.00	-24.28	35.47	0.12	0.13	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 Note 2: Over Limit (dBuV) = Limit Line (dBuV) – Level (dBuV).



Modulation Mode	GFSK	Test Freq. (MHz)	2480
Power Phase	Neutral		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.182	25.20	54.42	-29.22	25.04	0.02	0.14	Average
2	0.182	53.68	64.42	-10.74	53.52	0.02	0.14	QP
3	0.203	25.68	53.49	-27.81	25.48	0.02	0.18	Average
4	0.203	51.32	63.49	-12.17	51.12	0.02	0.18	QP
5	0.249	37.57	51.78	-14.21	37.41	0.02	0.14	Average
6	0.249	47.02	61.78	-14.76	46.86	0.02	0.14	QP
7	3.436	32.21	46.00	-13.79	31.94	0.05	0.22	Average
8	3.436	41.83	56.00	-14.17	41.56	0.05	0.22	QP
9	5.031	35.25	50.00	-14.75	34.98	0.06	0.21	Average
10	5.031	41.80	60.00	-18.20	41.53	0.06	0.21	QP
11	8.501	31.63	50.00	-18.37	31.42	0.08	0.13	Average
12	8.501	36.80	60.00	-23.20	36.59	0.08	0.13	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 Note 2: Over Limit (dBuV) = Limit Line (dBuV) - Level (dBuV).



3.2 Unwanted Emissions into Restricted Frequency Bands

3.2.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Quasi-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.2.2 Test Procedures

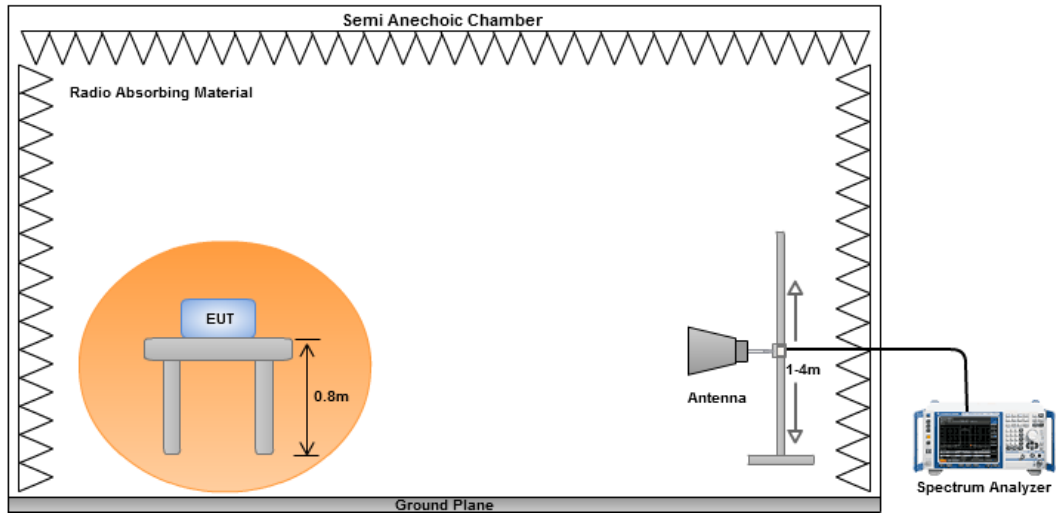
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
 2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
 3. RBW=1MHz, VBW=10Hz and Peak detector is for average measured value of radiated emission above 1GHz
- DH5 packet is the worst case since DH5 has more TX slots than other packet types.
4. Hopping randomly between 79 channels is 1600 times per second (0.625 ms time slot). The duty factor is $20 * \log(0.625 * 5 / 100) = -30.1 \text{ dB}$. Average value = Peak reading + duty factor

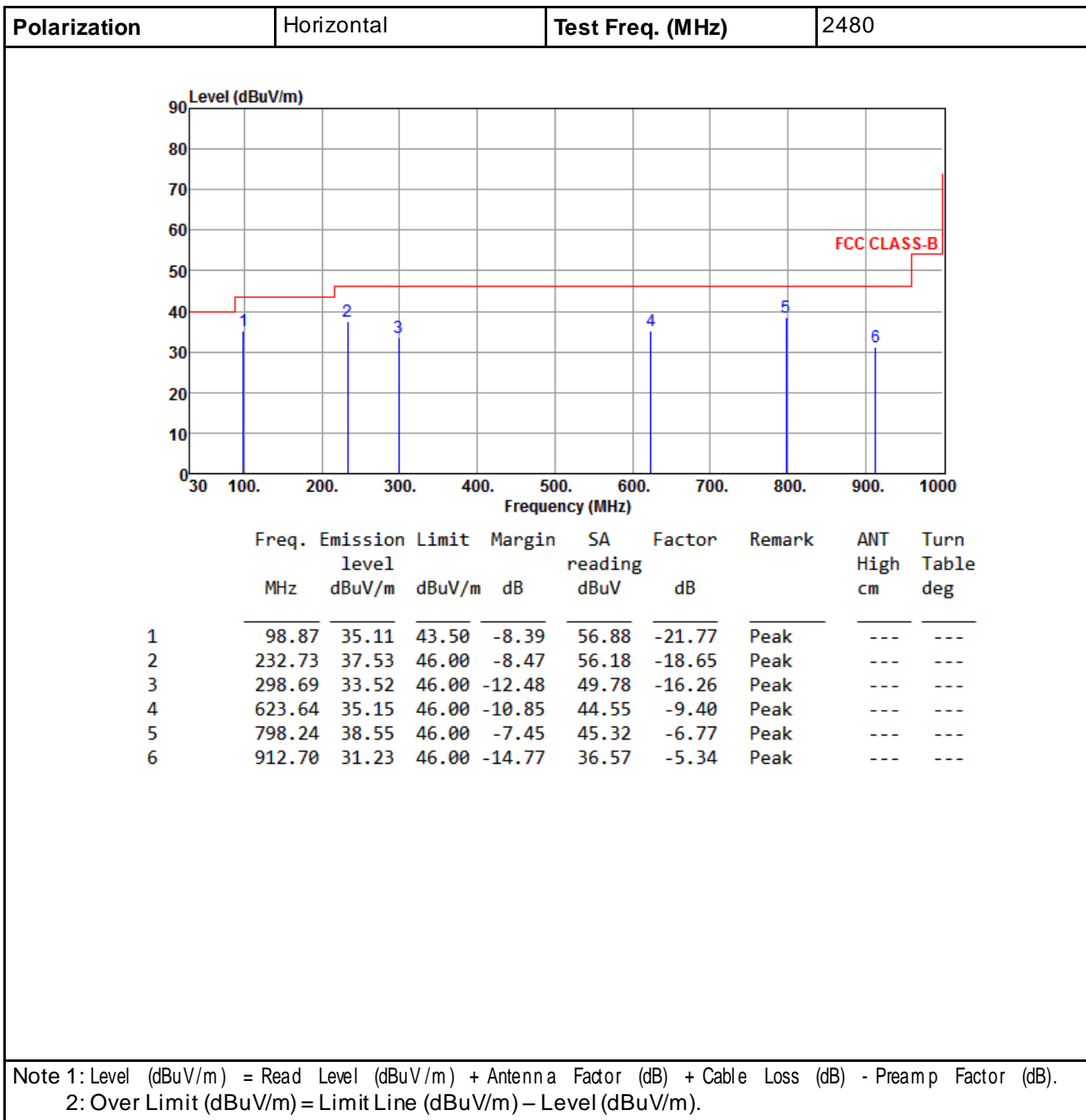


3.2.3 Test Setup





3.2.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)





Polarization	Vertical	Test Freq. (MHz)	2480																																																																							
<p>The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (30 to 1000). A red step function represents the FCC CLASS-B limit. Blue vertical lines indicate measured peaks at various frequencies: 1 (32.14 MHz), 2 (46.49 MHz), 3 (151.25 MHz), 4 (232.73 MHz), 5 (626.55 MHz), and 6 (798.24 MHz). The limit line is 40 dBuV/m from 30 to 100 MHz, 43.5 dBuV/m from 100 to 232.73 MHz, 46 dBuV/m from 232.73 to 1000 MHz. Peak 1 is over the limit, while peaks 2-6 are below it.</p>																																																																										
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Freq. MHz</th> <th>Emission level dBuV/m</th> <th>Limit dBuV/m</th> <th>Margin dB</th> <th>SA reading dBuV</th> <th>Factor dB</th> <th>Remark</th> <th>ANT High cm</th> <th>Turn Table deg</th> </tr> </thead> <tbody> <tr> <td style="border: 2px solid black;">1</td> <td>32.14</td> <td>37.55</td> <td>40.00</td> <td>-2.45</td> <td>55.15</td> <td>-17.60</td> <td>QP</td> <td>---</td> <td>---</td> </tr> <tr> <td>2</td> <td>46.49</td> <td>37.03</td> <td>40.00</td> <td>-2.97</td> <td>53.69</td> <td>-16.66</td> <td>QP</td> <td>---</td> <td>---</td> </tr> <tr> <td>3</td> <td>151.25</td> <td>34.52</td> <td>43.50</td> <td>-8.98</td> <td>51.45</td> <td>-16.93</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>4</td> <td>232.73</td> <td>31.28</td> <td>46.00</td> <td>-14.72</td> <td>49.93</td> <td>-18.65</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>5</td> <td>626.55</td> <td>37.62</td> <td>46.00</td> <td>-8.38</td> <td>46.98</td> <td>-9.36</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>6</td> <td>798.24</td> <td>36.26</td> <td>46.00</td> <td>-9.74</td> <td>43.03</td> <td>-6.77</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> </tbody> </table>						Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	32.14	37.55	40.00	-2.45	55.15	-17.60	QP	---	---	2	46.49	37.03	40.00	-2.97	53.69	-16.66	QP	---	---	3	151.25	34.52	43.50	-8.98	51.45	-16.93	Peak	---	---	4	232.73	31.28	46.00	-14.72	49.93	-18.65	Peak	---	---	5	626.55	37.62	46.00	-8.38	46.98	-9.36	Peak	---	---	6	798.24	36.26	46.00	-9.74	43.03	-6.77	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																	
1	32.14	37.55	40.00	-2.45	55.15	-17.60	QP	---	---																																																																	
2	46.49	37.03	40.00	-2.97	53.69	-16.66	QP	---	---																																																																	
3	151.25	34.52	43.50	-8.98	51.45	-16.93	Peak	---	---																																																																	
4	232.73	31.28	46.00	-14.72	49.93	-18.65	Peak	---	---																																																																	
5	626.55	37.62	46.00	-8.38	46.98	-9.36	Peak	---	---																																																																	
6	798.24	36.26	46.00	-9.74	43.03	-6.77	Peak	---	---																																																																	
<p>Note 1: Level (dBuV/m) = Read Level (dBuV/m) + Antenna Factor (dB) + Cable Loss (dB) - Preamp Factor (dB). 2: Over Limit (dBuV/m) = Limit Line (dBuV/m) - Level (dBuV/m).</p>																																																																										



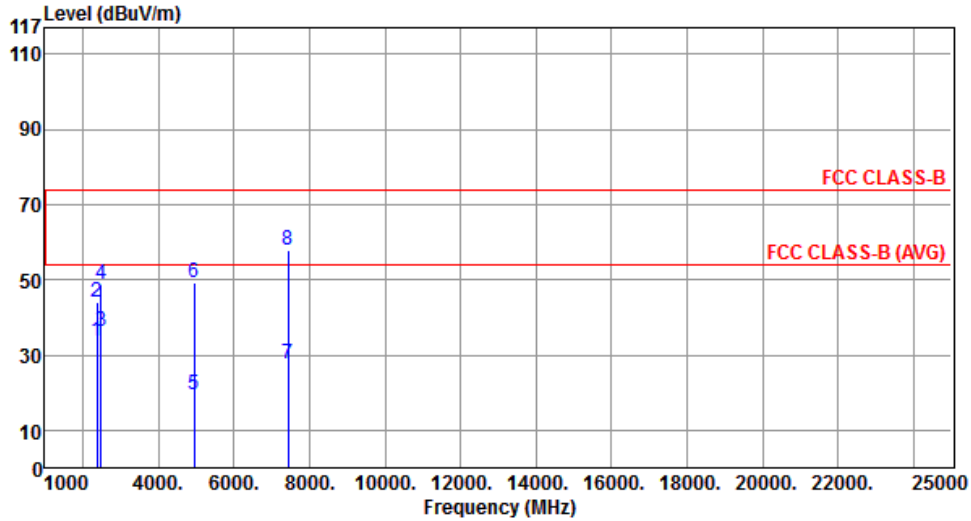
3.2.5 Transmitter Radiated Unwanted Emissions (Above 1GHz)

Polarization	Horizontal	Test Freq. (MHz)	2480						
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	2375.00	33.02	54.00	-20.98	36.30	-3.28	Average	---	---
2	2375.00	45.80	74.00	-28.20	49.08	-3.28	Peak	---	---
3	2483.50	38.22	54.00	-15.78	41.05	-2.83	Average	---	---
4	2483.50	51.00	74.00	-23.00	53.83	-2.83	Peak	---	---
5	4960.00	23.45	54.00	-30.55	18.91	4.54	Average	---	---
6	4960.00	53.55	74.00	-20.45	49.01	4.54	Peak	---	---
7	7440.00	27.57	54.00	-26.43	18.45	9.12	Average	---	---
8	7440.00	57.67	74.00	-16.33	48.55	9.12	Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Vertical	Test Freq. (MHz)	2480
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2375.00	33.74	54.00	-20.26	37.02	-3.28	Average	---	---
2	2375.00	44.00	74.00	-30.00	47.28	-3.28	Peak	---	---
3	2483.50	36.30	54.00	-17.70	39.13	-2.83	Average	---	---
4	2483.50	48.67	74.00	-25.33	51.50	-2.83	Peak	---	---
5	4960.00	19.29	54.00	-34.71	14.75	4.54	Average	---	---
6	4960.00	49.39	74.00	-24.61	44.85	4.54	Peak	---	---
7	7440.00	27.70	54.00	-26.30	18.58	9.12	Average	---	---
8	7440.00	57.80	74.00	-16.20	48.68	9.12	Peak	---	---

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 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

==END==