



Appendix C. Radiated Spurious Emission Plots

Test Engineer :	Jesse Wang, Stan Hsieh and Nick Yu	Temperature :	24~26°C
		Relative Humidity :	51~53%

Note symbol

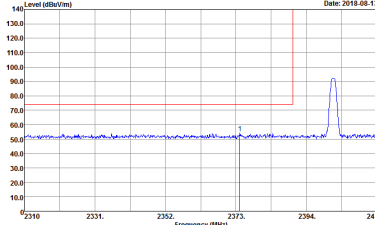
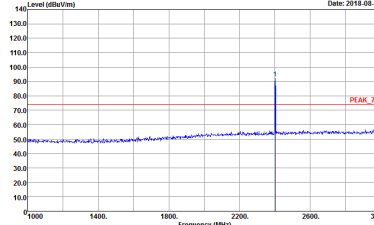
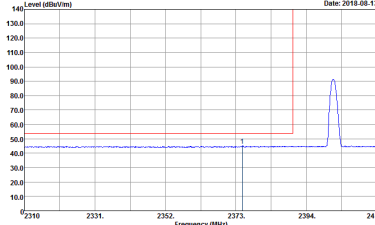
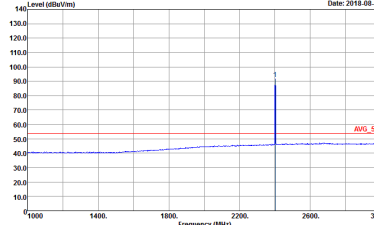
-L	Low channel location
-R	High channel location



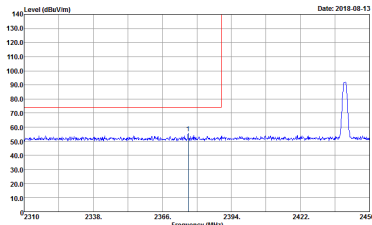
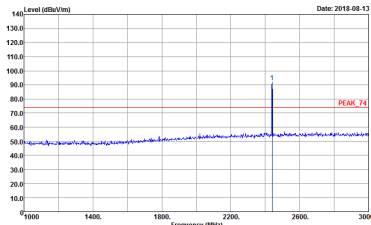
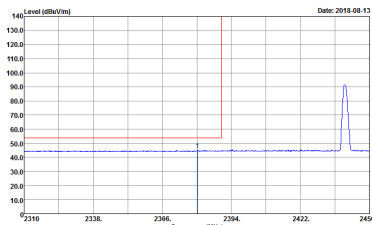
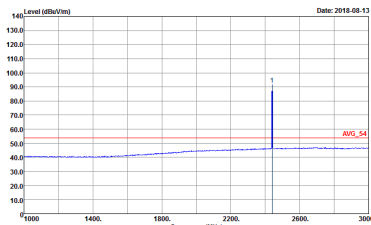
2.4GHz 2400~2483.5MHz
BLE 1Mbps (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Detector : Peak Project : 872506 Mode : 4</p>	<p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Detector : Peak Project : 872506 Mode : 4</p>
Avg.	<p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3.000kHz SMT:Auto Detector : Peak Project : 872506 Mode : 4</p>	<p>Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3.000kHz SMT:Auto Detector : Peak Project : 872506 Mode : 4</p>

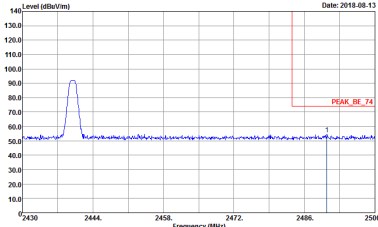
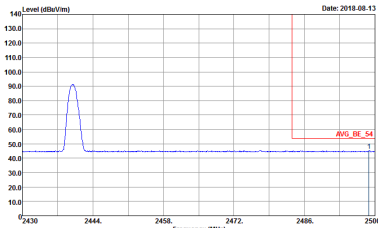


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 4</p>	 <p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 4</p>
Avg	 <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 4</p>	 <p>Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 4</p>

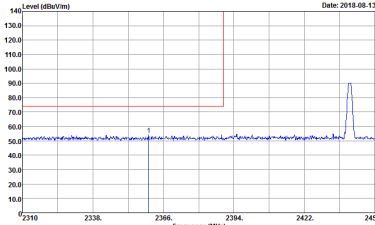
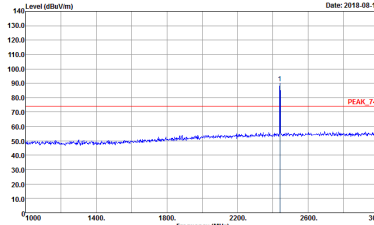
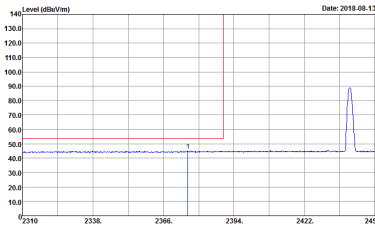
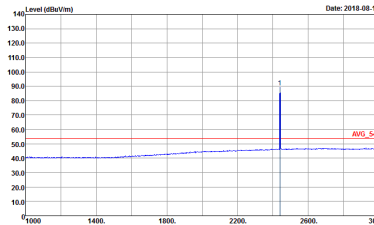


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 872506 Node : 5</p>	 <p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 872506 Node : 5</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 872506 Node : 5</p>	 <p>Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 872506 Node : 5</p>

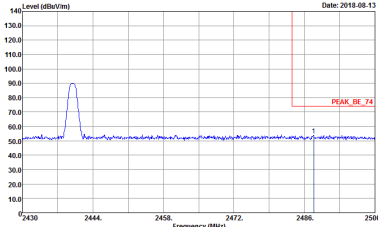
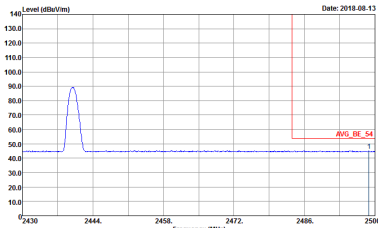


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
1	Horizontal	Fundamental
<p>Peak</p>	 <pre> Date: 2018-08-13 Site : 03CHR7-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 872506 Mode : 5 </pre>	<p>Left blank</p>
<p>Avg.</p>	 <pre> Date: 2018-08-13 Site : 03CHR7-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 872506 Mode : 5 </pre>	<p>Left blank</p>

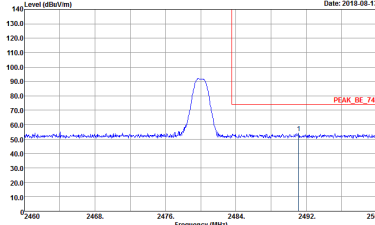
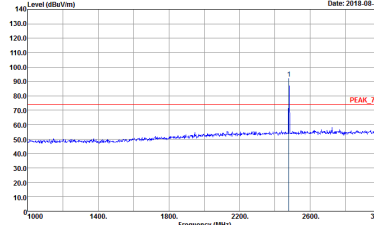
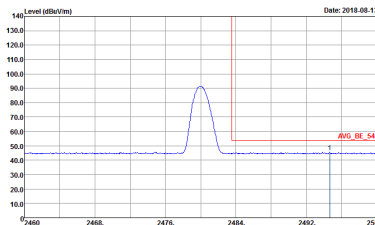
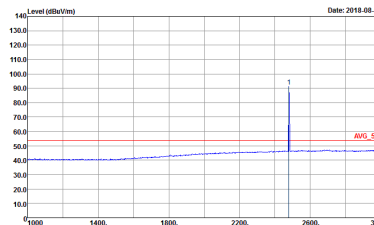


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 5</p>	 <p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 5</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 5</p>	 <p>Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 5</p>

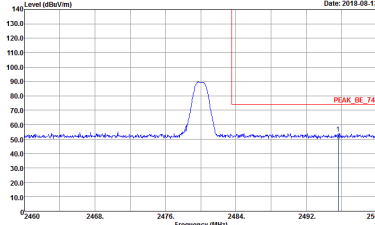
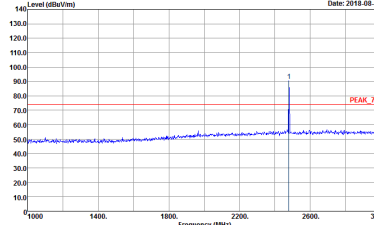
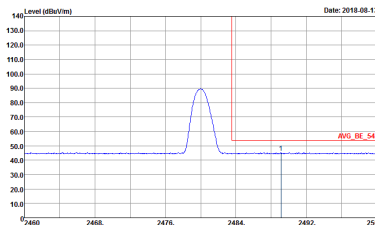
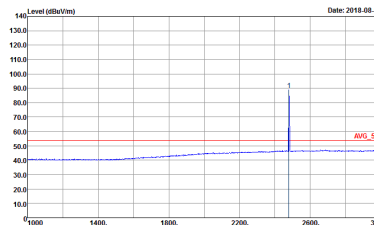


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 5</p>	Left blank
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 5</p>	Left blank



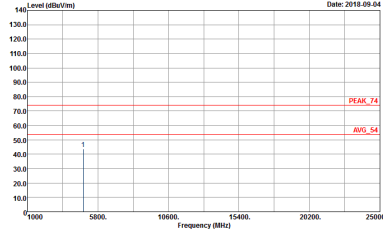
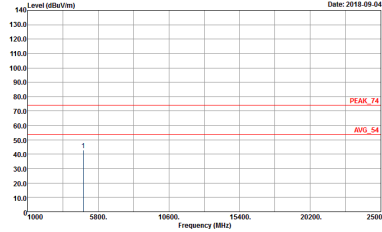
BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 872506 Mode : 6</p>	 <p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 872506 Mode : 6</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 872506 Mode : 6</p>	 <p>Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 872506 Mode : 6</p>



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 6</p>	 <p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 6</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 6</p>	 <p>Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 6</p>



2.4GHz 2400~2483.5MHz
BLE 1Mbps (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH00 2402MHz	
1	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CM07-HY Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 872506 Mode : 4</p>	 <p>Site : 03CM07-HY Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 872506 Mode : 4</p>



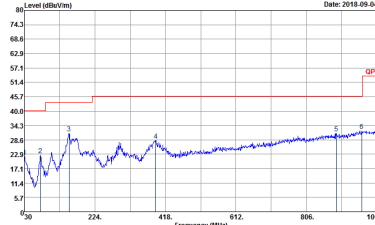
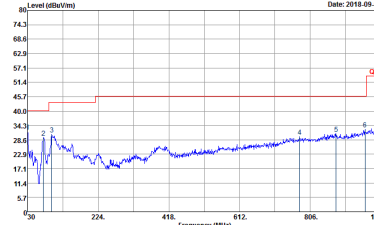
BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH19 2440MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 872506 Mode : 5</p>	<p>Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 872506 Mode : 5</p>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH39 2480MHz	
1	Horizontal	Vertical
Peak	<p>Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 872506 Mode : 6</p>	<p>Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 872506 Mode : 6</p>

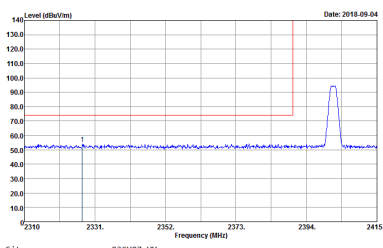
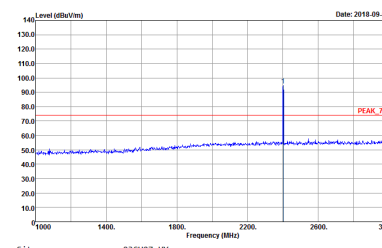
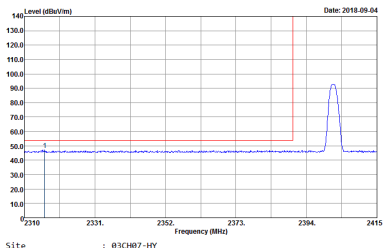
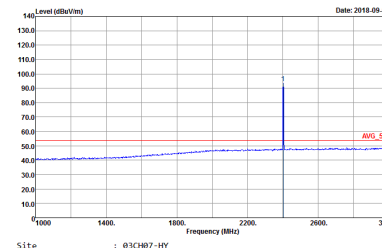


Emission below 1GHz
2.4GHz BLE 1Mbps (LF)

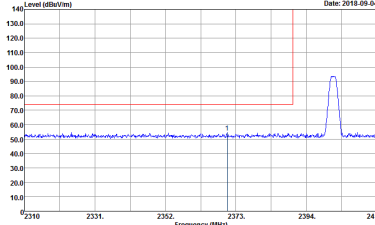
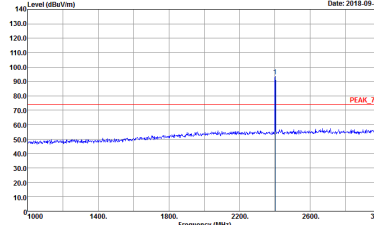
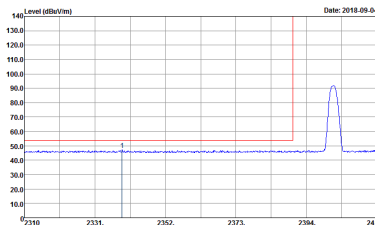
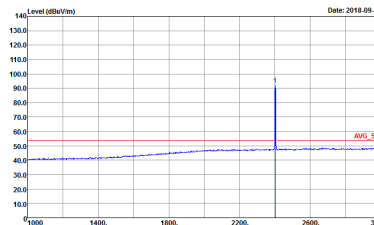
BLE	2.4GHz 2400~2483.5MHz	
ANT	BLE LF	
1	Horizontal	Vertical
<p>QP / Peak</p>	 <p>Site : 03CM07-HY Condition : QP 3m LF-ANT-35419(G) HORIZONTAL Detector : Peak Project : 872506 Mode : 80</p>	 <p>Site : 03CM07-HY Condition : QP 3m LF-ANT-35419(G) VERTICAL Detector : Peak Project : 872506 Mode : 80</p>



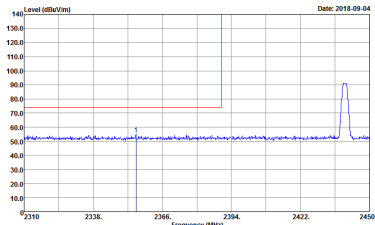
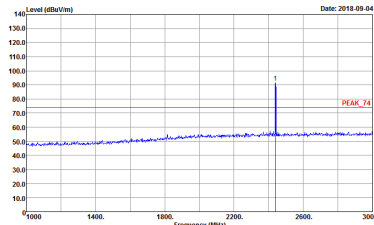
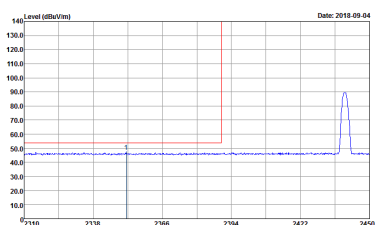
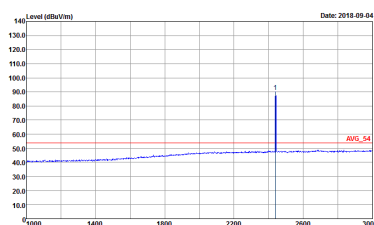
2.4GHz 2400~2483.5MHz
BLE 2Mbps (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00066583 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Detector : Peak Project : 872506 Mode : 7</p>	 <p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00066583 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Detector : Peak Project : 872506 Mode : 7</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00066583 HORIZONTAL RBW:1000.000kHz VBW:10.000kHz SMT:Auto Detector : Peak Project : 872506 Mode : 7</p>	 <p>Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00066583 HORIZONTAL RBW:1000.000kHz VBW:10.000kHz SMT:Auto Detector : Peak Project : 872506 Mode : 7</p>

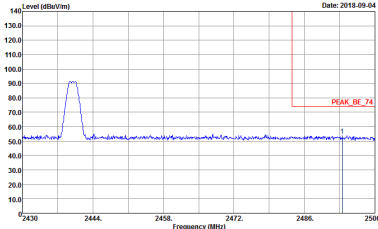
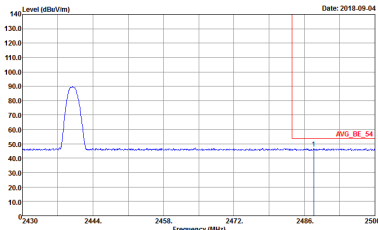


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 7</p>	 <p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 7</p>
Avg	 <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 7</p>	 <p>Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 7</p>

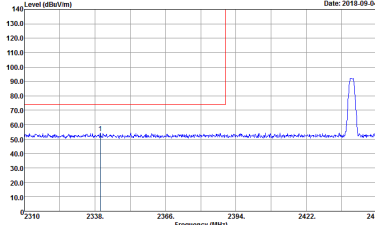
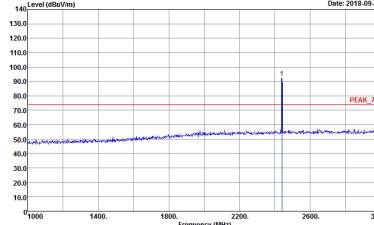
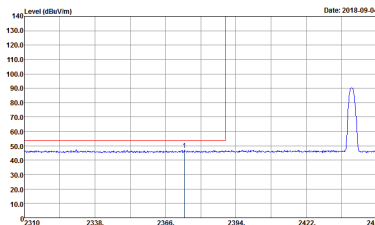
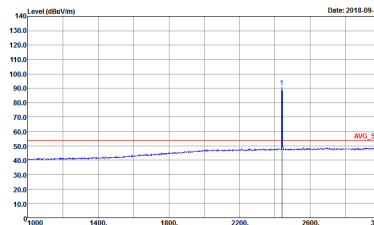


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00066583 HORIZONTAL Detector : Peak Project : 872506 Node : 8</p>	 <p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00066583 HORIZONTAL Detector : Peak Project : 872506 Node : 8</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00066583 HORIZONTAL Detector : Peak Project : 872506 Node : 8</p>	 <p>Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00066583 HORIZONTAL Detector : Peak Project : 872506 Node : 8</p>

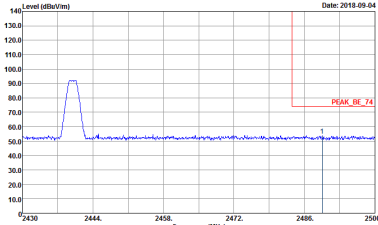
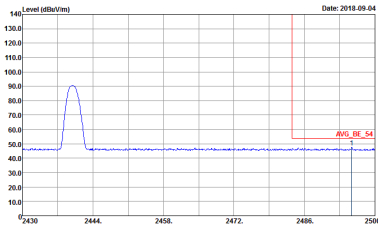


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
1	Horizontal	Fundamental
<p>Peak</p>	 <pre> Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00066583 HORIZONTAL Detector : Peak Project : 872506 Mode : B </pre>	<p>Left blank</p>
<p>Avg.</p>	 <pre> Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00066583 HORIZONTAL Detector : Peak Project : 872506 Mode : B </pre>	<p>Left blank</p>

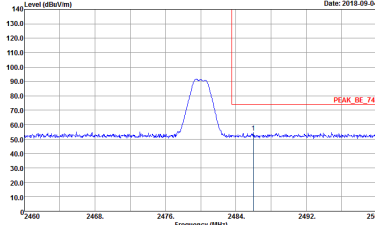
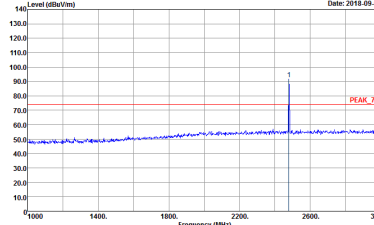
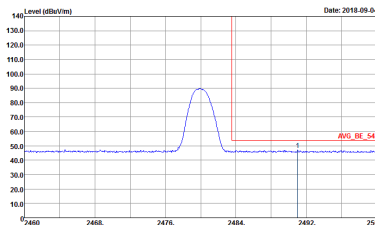
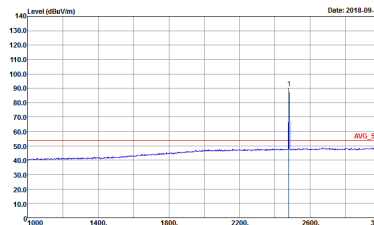


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : B</p>	 <p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : B</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : B</p>	 <p>Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : B</p>

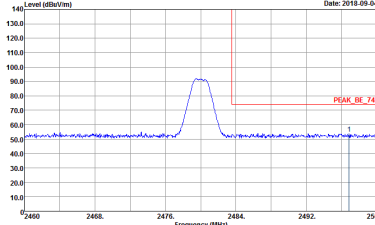
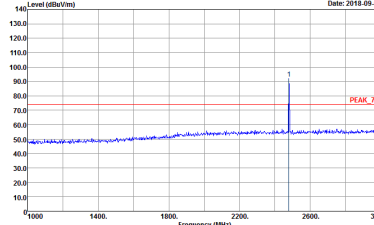
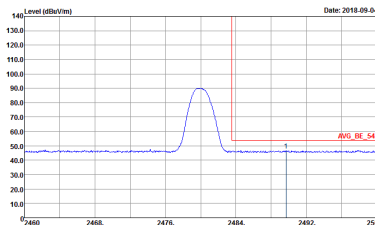
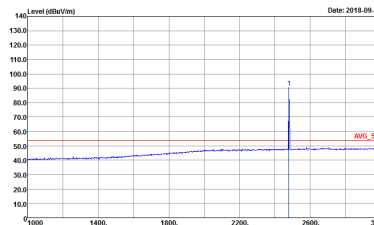


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : B</p>	Left blank
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : B</p>	Left blank



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00066583 HORIZONTAL Detector : Peak Project : 872506 Mode : 9</p>	 <p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00066583 HORIZONTAL Detector : Peak Project : 872506 Mode : 9</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00066583 HORIZONTAL Detector : Peak Project : 872506 Mode : 9</p>	 <p>Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00066583 HORIZONTAL Detector : Peak Project : 872506 Mode : 9</p>



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 9</p>	 <p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 9</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 9</p>	 <p>Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 9</p>



2.4GHz 2400~2483.5MHz
BLE 2Mbps (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH00 2402MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CM07-HY Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 872506 Mode : 7</p>	<p>Site : 03CM07-HY Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 872506 Mode : 7</p>



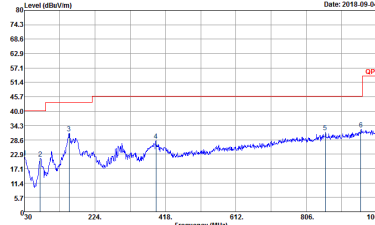
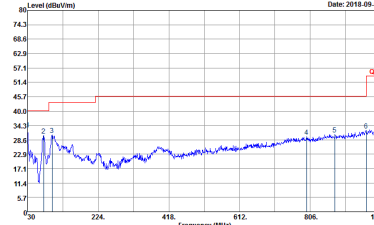
BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH19 2440MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 872506 Mode : B</p>	<p>Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 872506 Mode : B</p>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH39 2480MHz	
1	Horizontal	Vertical
Peak	<p>Site : 03CHR7-HY Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 872506 Mode : 9</p>	<p>Site : 03CHR7-HY Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 872506 Mode : 9</p>



Emission below 1GHz
2.4GHz BLE 2Mbps (LF)

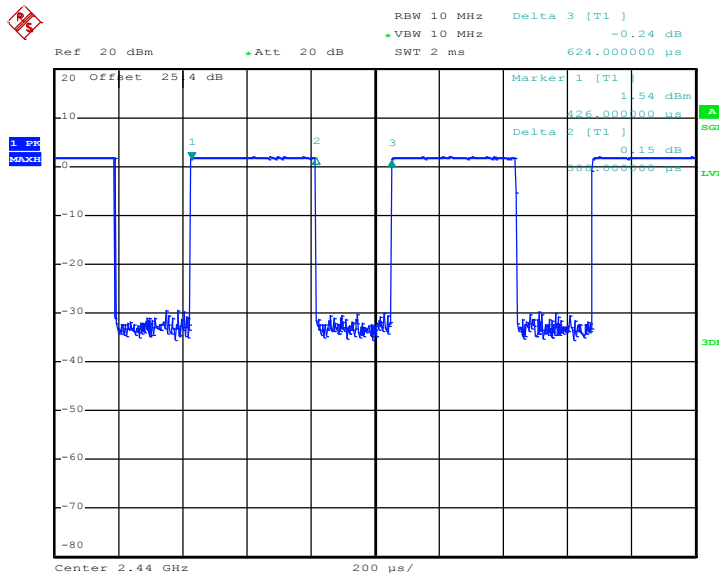
BLE	2.4GHz 2400~2483.5MHz	
ANT	BLE LF	
1	Horizontal	Vertical
<p>QP / Peak</p>	 <p>Site : 03CM07-HY Condition : QP 3m LF-ANT-35419(G) HORIZONTAL Detector : Peak Project : 872506 Mode : 81</p>	 <p>Site : 03CM07-HY Condition : QP 3m LF-ANT-35419(G) VERTICAL Detector : Peak Project : 872506 Mode : 81</p>



Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
Bluetooth – LE for 1Mbps	62.18	388.00	2.58	3kHz	2.06
Bluetooth – LE for 2Mbps	32.48	204.00	4.90	10kHz	4.88

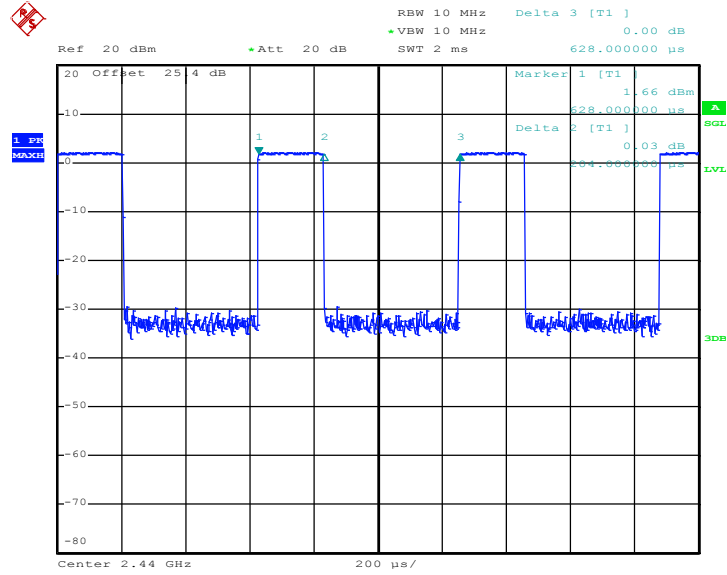
Bluetooth – LE for 1Mbps



Date: 7.SEP.2018 18:12:27



Bluetooth – LE for 2Mbps



Date: 7.SEP.2018 18:14:20