



Appendix C. Radiated Spurious Emission Plots

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

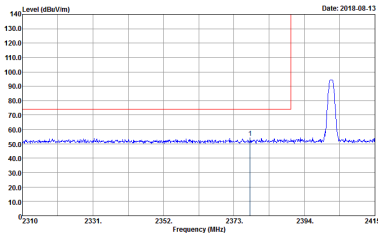
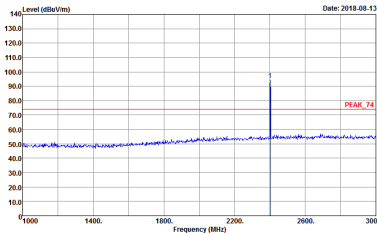
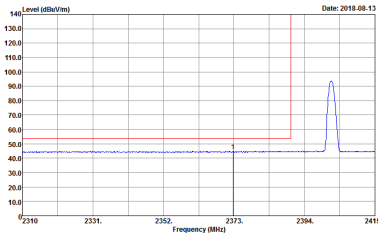
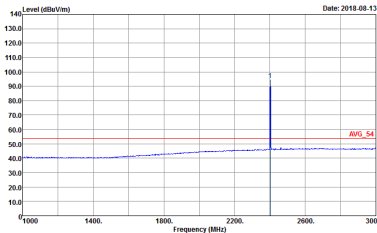
Note symbol

-L	Low channel location
-R	High channel location



2.4GHz 2400~2483.5MHz

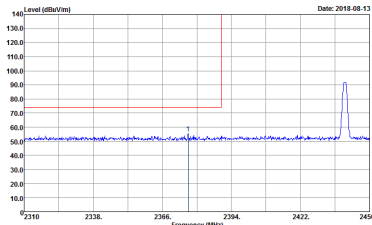
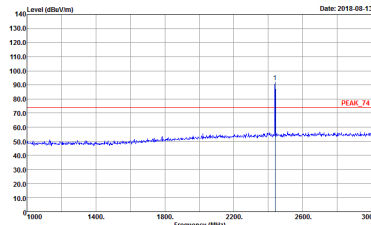
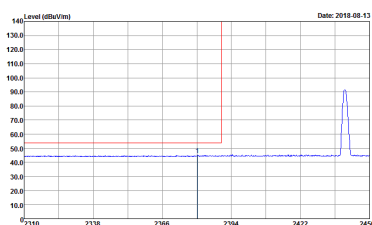
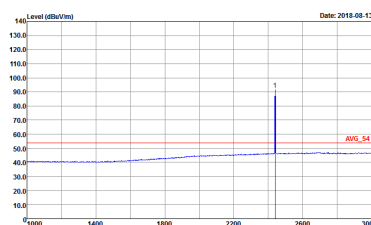
BLE 1Mbps (Band Edge @ 3m)

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>

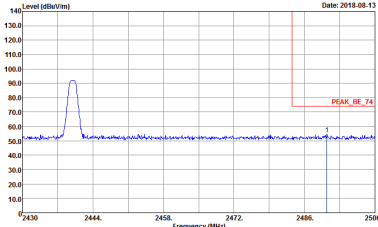
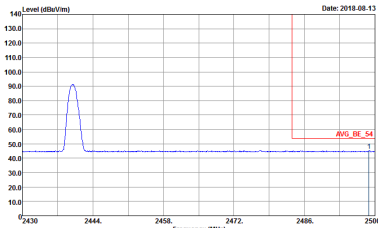


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 4</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector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

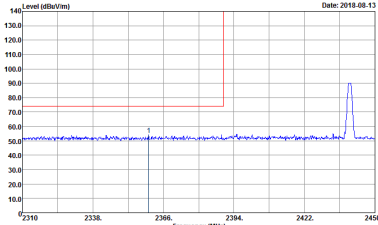
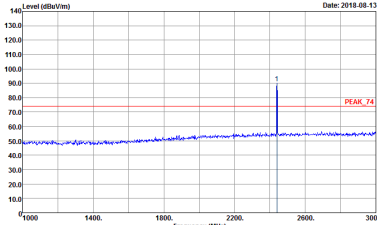
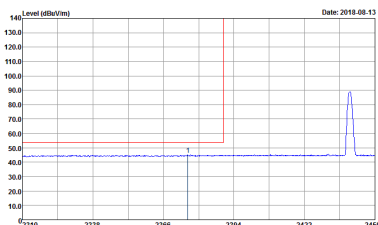
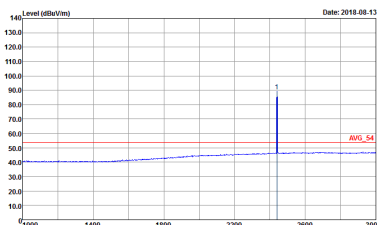


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBN:3000.000KHz SMT:Auto Peak Project : 872506 Node : 5</p>	 <p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBN:3000.000KHz SMT:Auto Peak Project : 872506 Node : 5</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBN:3.000KHz SMT:Auto Peak Project : 872506 Node : 5</p>	 <p>Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBN:3.000KHz SMT:Auto Peak Project : 872506 Node : 5</p>

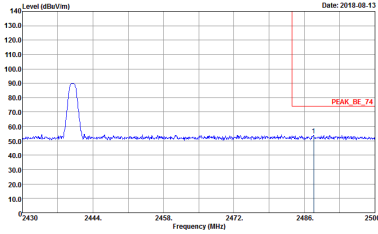
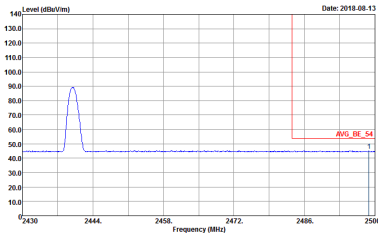


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
1	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Project : Peak Mode : 872506 Mode : 5</p></div>	Left blank
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3.000kHz SMT:Auto Project : Peak Mode : 872506 Mode : 5</p></div>	Left blank

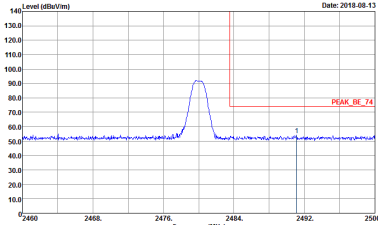
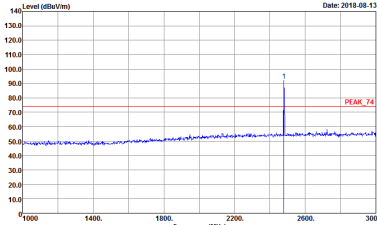
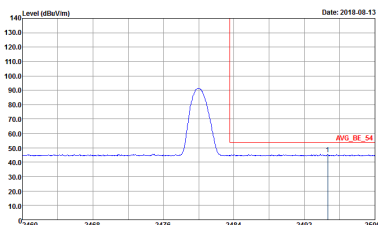
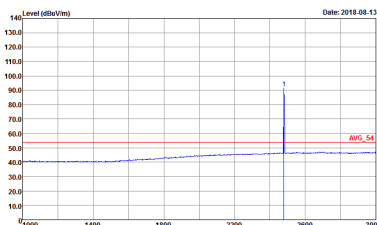


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - L	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Project : Peak Mode : 872506 Date: 2018-08-13</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Project : Peak Mode : 872506 Date: 2018-08-13</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3.000kHz SMT:Auto Project : Peak Mode : 872506 Date: 2018-08-13</p></div>	<div><p>Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3.000kHz SMT:Auto Project : Peak Mode : 872506 Date: 2018-08-13</p></div>

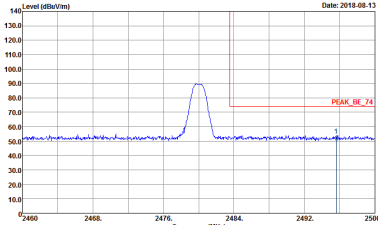
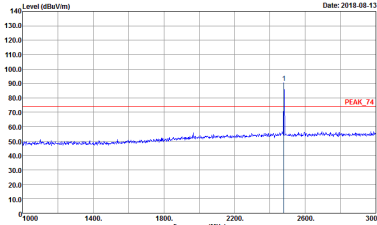
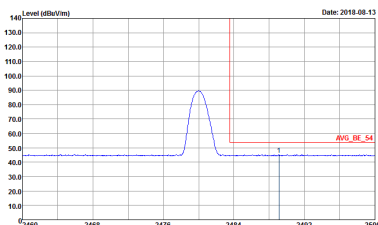
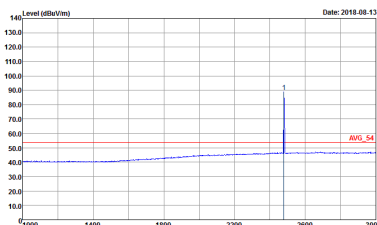


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 5</p></div>	Left blank
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962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



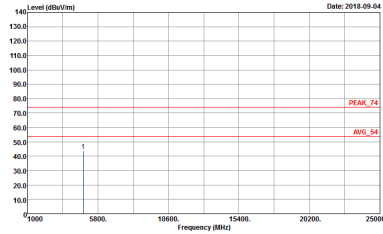
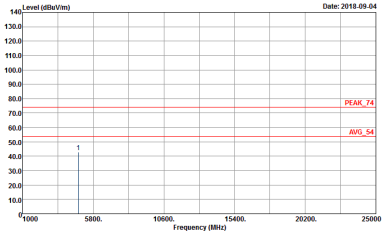
BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
1	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 872506 Mode : 6</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector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



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



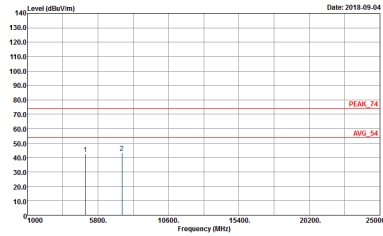
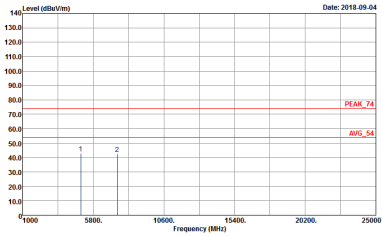
2.4GHz 2400~2483.5MHz
BLE 1Mbps (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH00 2402MHz	
1	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 872506 Mode : 4</p>	 <p>Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 872506 Mode : 4</p>



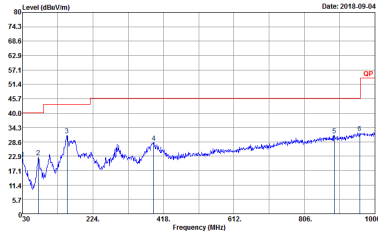
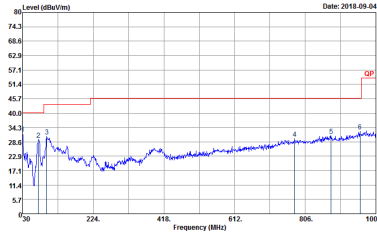
BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH19 2440MHz	
1	Horizontal	Vertical
Peak Avg.	<div><p>Level (dBuV/m)</p><p>Date: 2018-09-04</p><p>Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 872506 Mode : 5</p></div>	<div><p>Level (dBuV/m)</p><p>Date: 2018-09-04</p><p>Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 872506 Mode : 5</p></div>



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



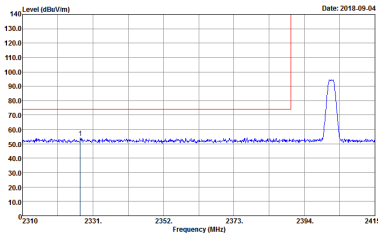
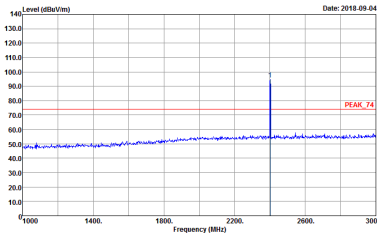
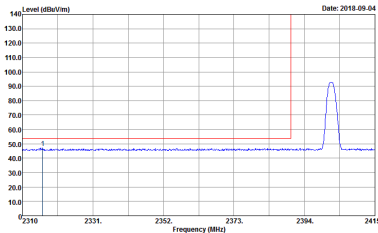
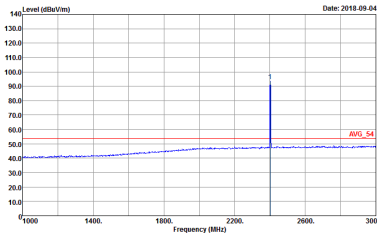
Emission below 1GHz
2.4GHz BLE 1Mbps (LF)

BLE	2.4GHz 2400~2483.5MHz	
ANT	BLE LF	
1	Horizontal	Vertical
QP / Peak	 <p>Site : 03CM07-HY Condition : QP 3m LF-ANT-35419(6) HORIZONTAL Detector : Peak Project : 872506 Mode : 80</p>	 <p>Site : 03CM07-HY Condition : QP 3m LF-ANT-35419(6) VERTICAL Detector : Peak Project : 872506 Mode : 80</p>

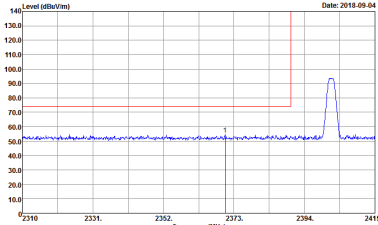
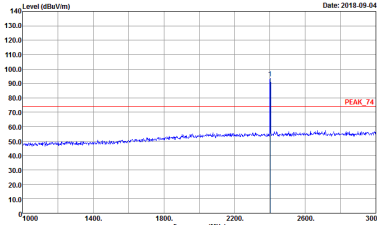
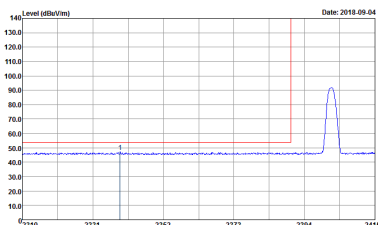
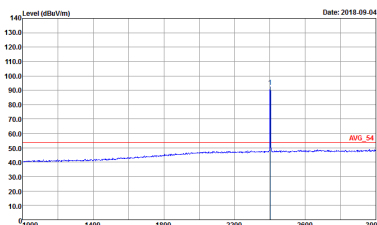


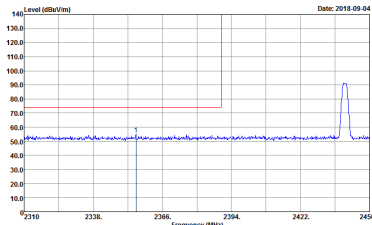
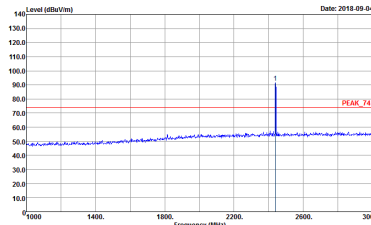
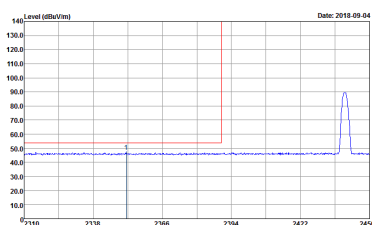
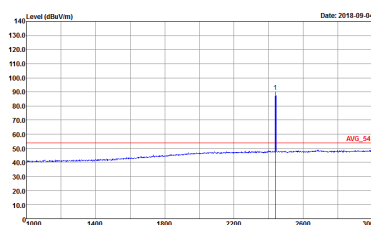
2.4GHz 2400~2483.5MHz

BLE 2Mbps (Band Edge @ 3m)

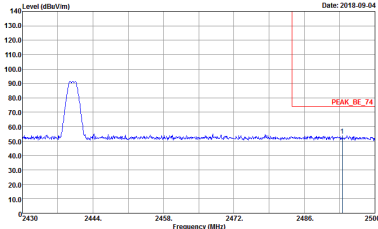
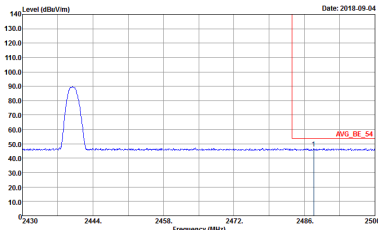
BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00066583 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Detector : Peak Project : 872506 Mode : 7</p>	 <p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00066583 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 : RBW:1000.000kHz VBN:3000.000kHz SMT:Auto Project : Peak Node : 872506 Node : 8 </p>	 <p> Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00066583 HORIZONTAL Detector : RBW:1000.000kHz VBN:3000.000kHz SMT:Auto Project : Peak Node : 872506 Node : 8 </p>
Avg.	 <p> Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00066583 HORIZONTAL Detector : RBW:1000.000kHz VBN:10.000kHz SMT:Auto Project : Peak Node : 872506 Node : 8 </p>	 <p> Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00066583 HORIZONTAL Detector : RBW:1000.000kHz VBN:10.000kHz SMT:Auto Project : Peak Node : 872506 Node : 8 </p>

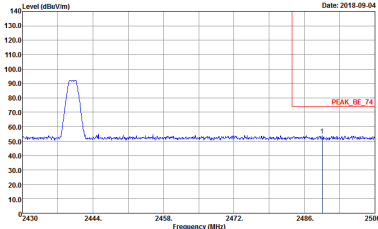
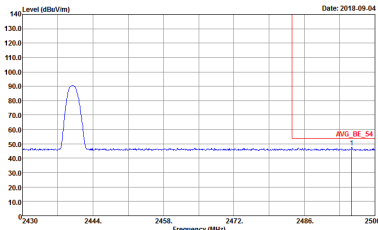


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
1	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74_3m HF_ANT_00066583 HORIZONTAL Detector : Peak Project : 872506 Mode : B</p></div>	Left blank
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54_3m HF_ANT_00066583 HORIZONTAL Detector : Peak Project : 872506 Mode : B</p></div>	Left blank



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 : 8</p>	<p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 8</p>
Avg.	<p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 8</p>	<p>Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 8</p>

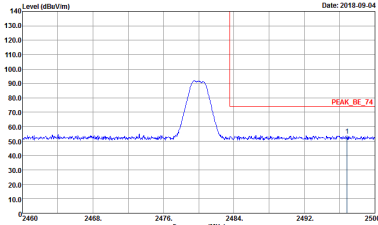
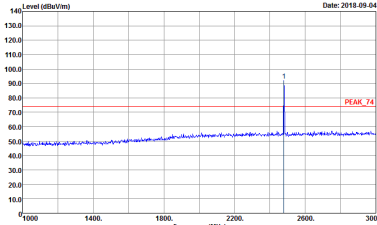
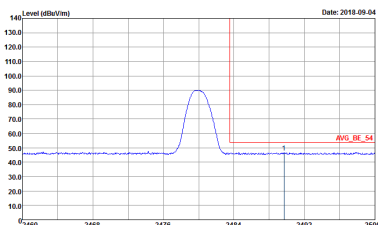
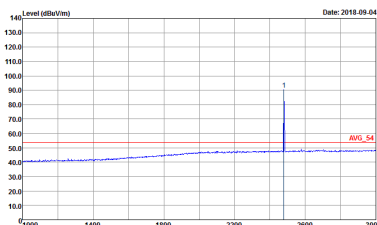


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
1	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74_3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : B</p></div>	Left blank
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54_3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : B</p></div>	Left blank



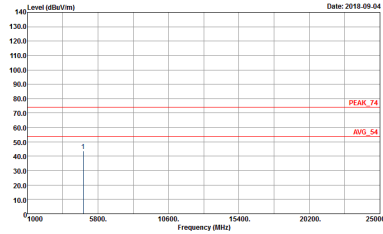
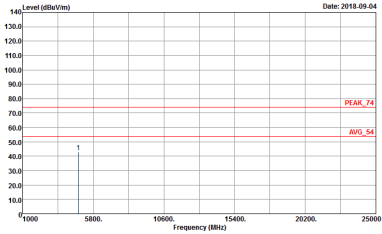
BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00066583 HORIZONTAL Detector : Peak Project : 872506 Mode : 9</p>	<p>Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00066583 HORIZONTAL Detector : Peak Project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



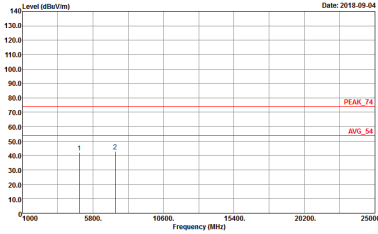
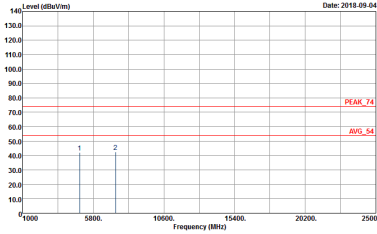
BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
1	Vertical	Fundamental
Peak	<div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 9</p></div>	<div><p>Level (dBuV/m)</p><p>Frequency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



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 : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 872506 Mode : 7</p>	 <p>Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 872506 Mode : 7</p>



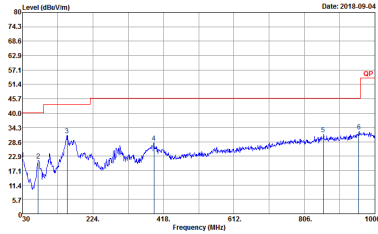
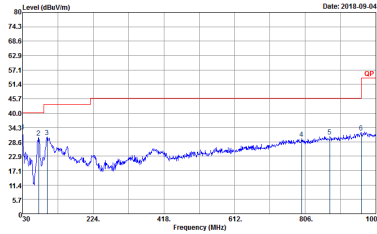
BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH19 2440MHz	
1	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 872506 Mode : 8</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 872506 Mode : 8</p></div>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH39 2480MHz	
1	Horizontal	Vertical
Peak	<div><p>Level (dBuV/m)</p><p>Date: 2018-09-04</p><p>Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 872506 Mode : 9</p></div>	<div><p>Level (dBuV/m)</p><p>Date: 2018-09-04</p><p>Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 872506 Mode : 9</p></div>



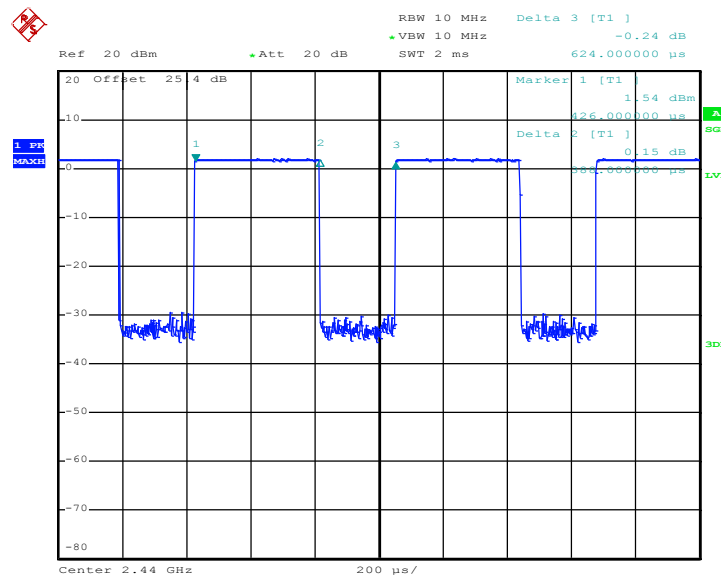
Emission below 1GHz
2.4GHz BLE 2Mbps (LF)

BLE	2.4GHz 2400~2483.5MHz	
ANT	BLE LF	
1	Horizontal	Vertical
QP / Peak	 <p>Site : 03CM07-HY Condition : QP 3m LF-ANT-35419(6) HORIZONTAL Detector : Peak Project : 872506 Mode : B1</p>	 <p>Site : 03CM07-HY Condition : QP 3m LF-ANT-35419(6) VERTICAL Detector : Peak Project : 872506 Mode : B1</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

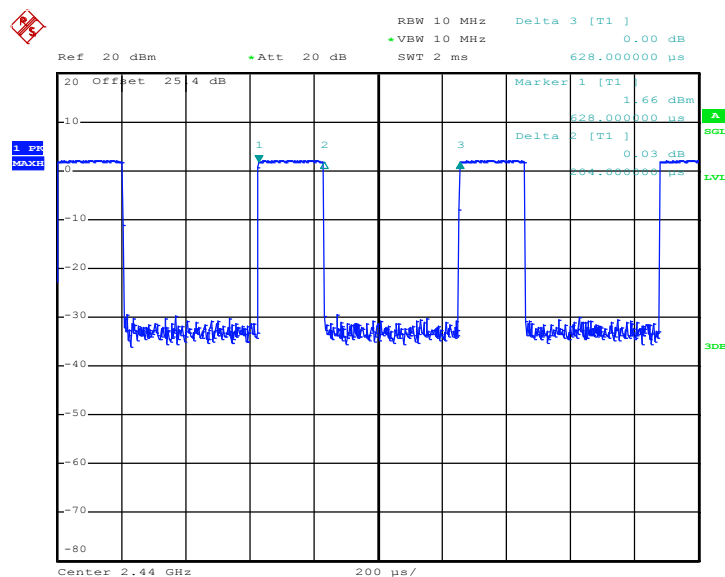
Bluetooth – LE for 1Mbps



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



Report No. : FR872506B



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