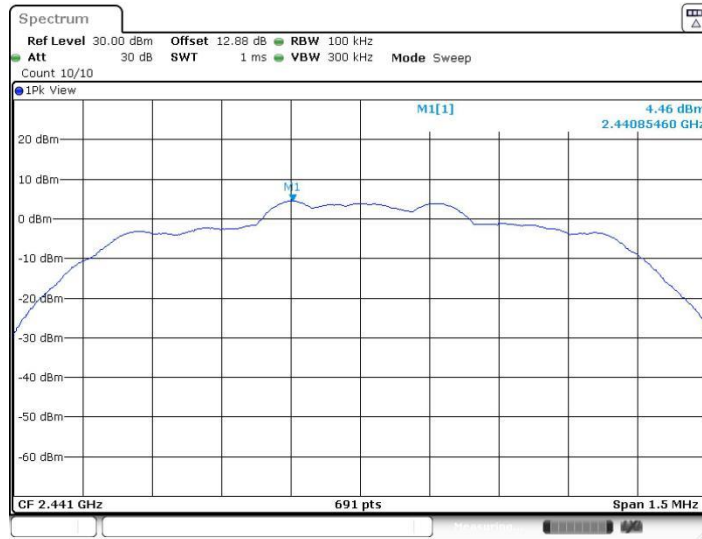


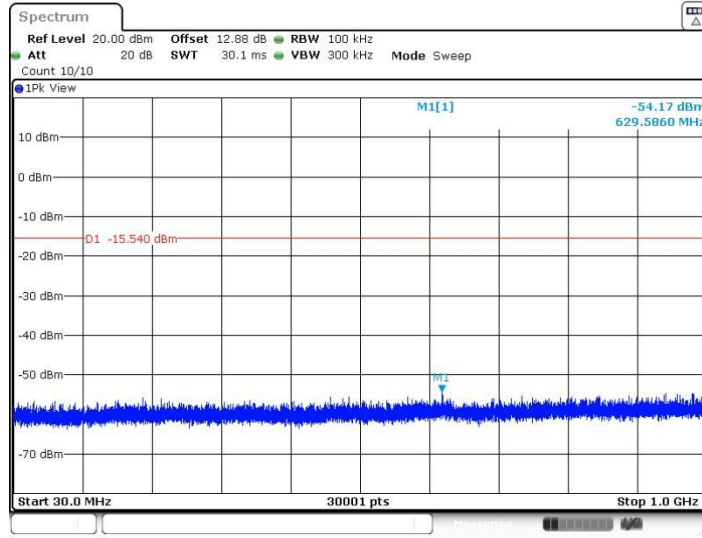


2DH1\_Ant1\_2441\_0~Reference



Date: 15.OCT.2022 08:07:39

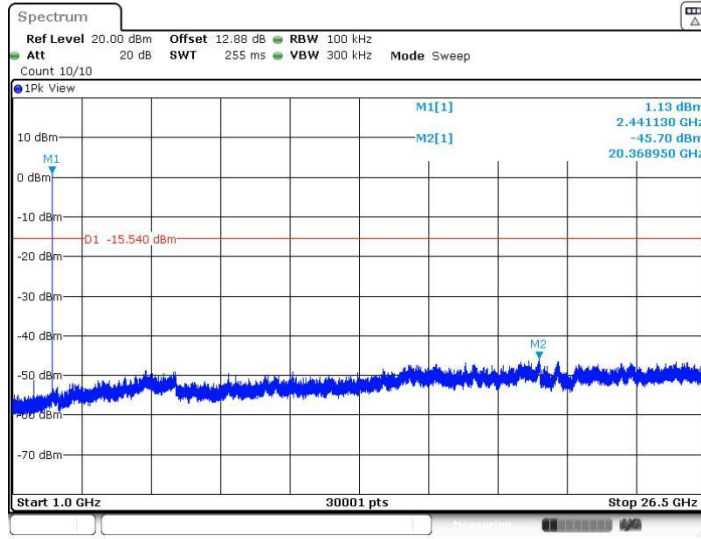
2DH1\_Ant1\_2441\_30~1000



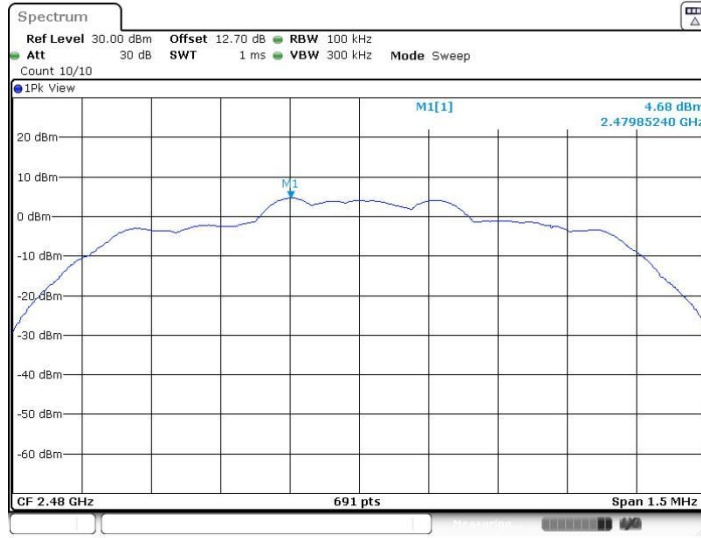
Date: 15.OCT.2022 08:07:45



2DH1\_Ant1\_2441\_1000~26500

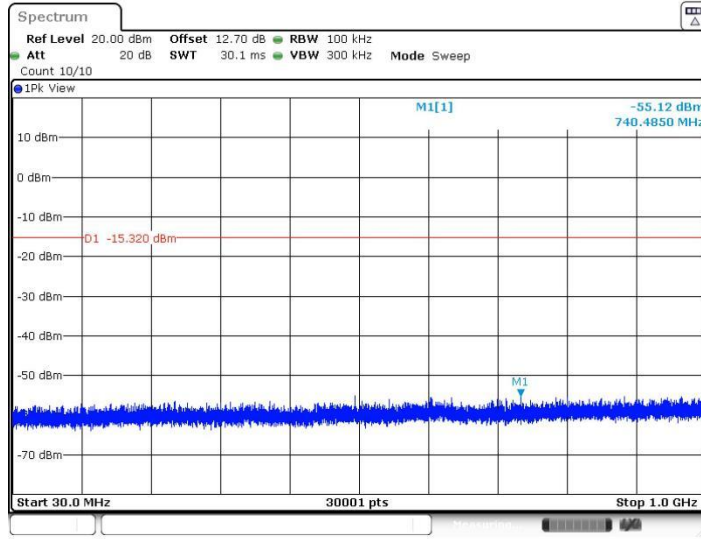


2DH1\_Ant1\_2480\_0~Reference

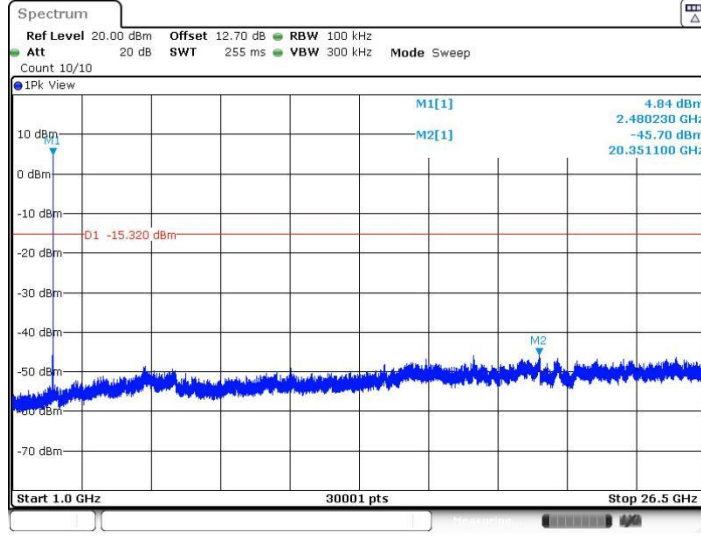




2DH1\_Ant1\_2480\_30~1000

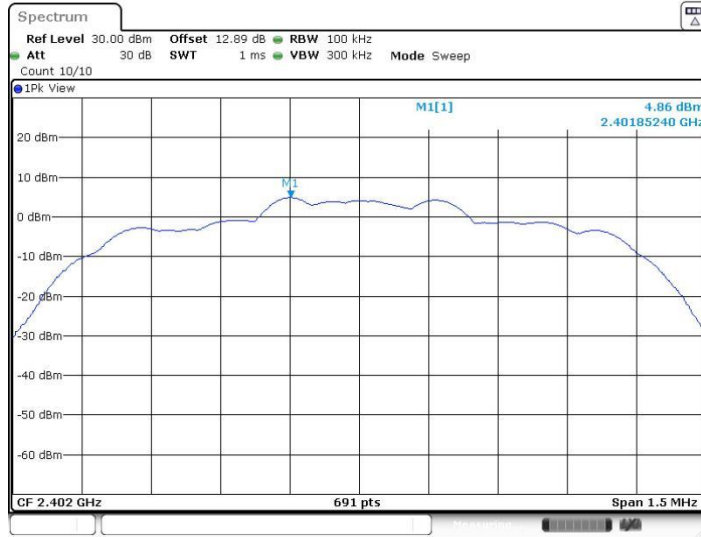


2DH1\_Ant1\_2480\_1000~26500

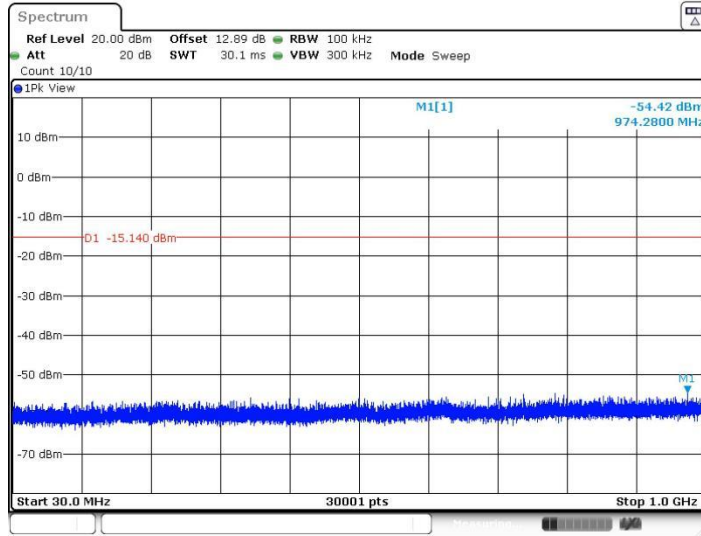




3DH1\_Ant1\_2402\_0~Reference

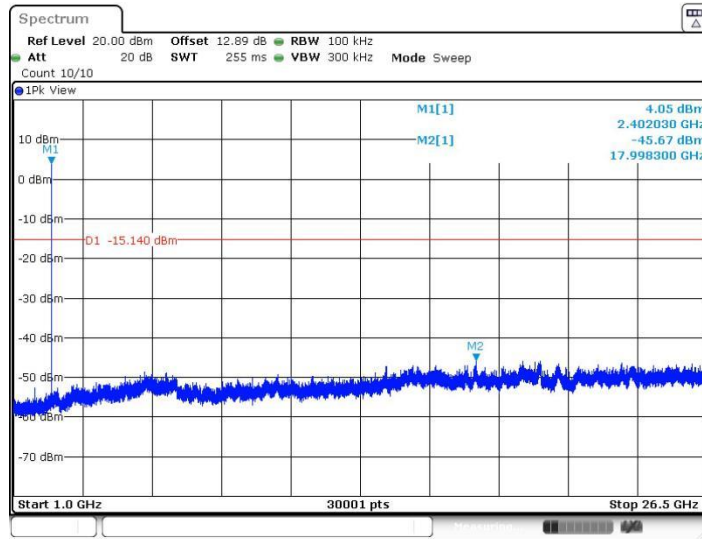


3DH1\_Ant1\_2402\_30~1000



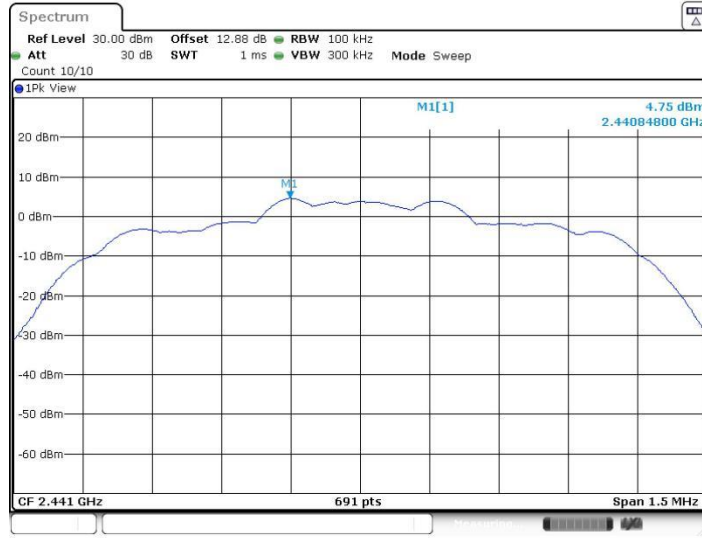


3DH1\_Ant1\_2402\_1000~26500



Date: 15.OCT.2022 08:11:04

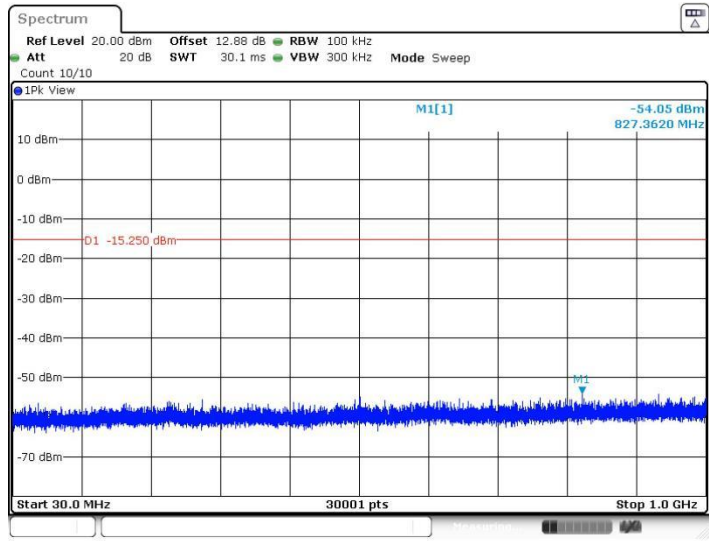
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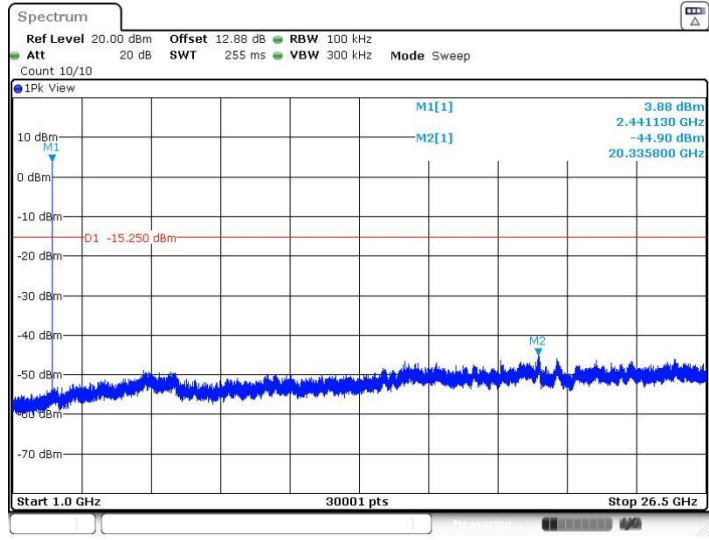
Date: 15.OCT.2022 08:11:32



3DH1\_Ant1\_2441\_30~1000

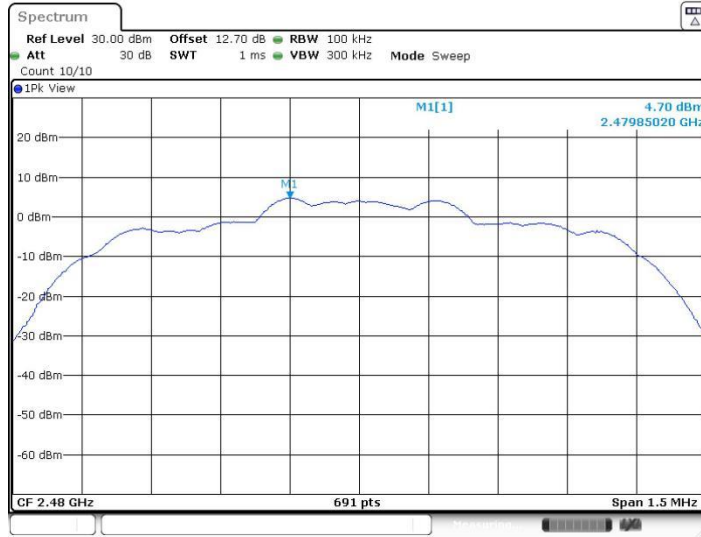


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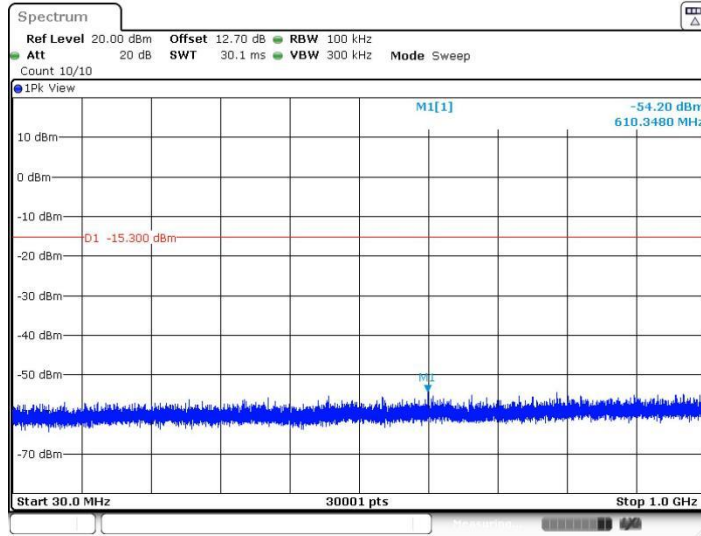


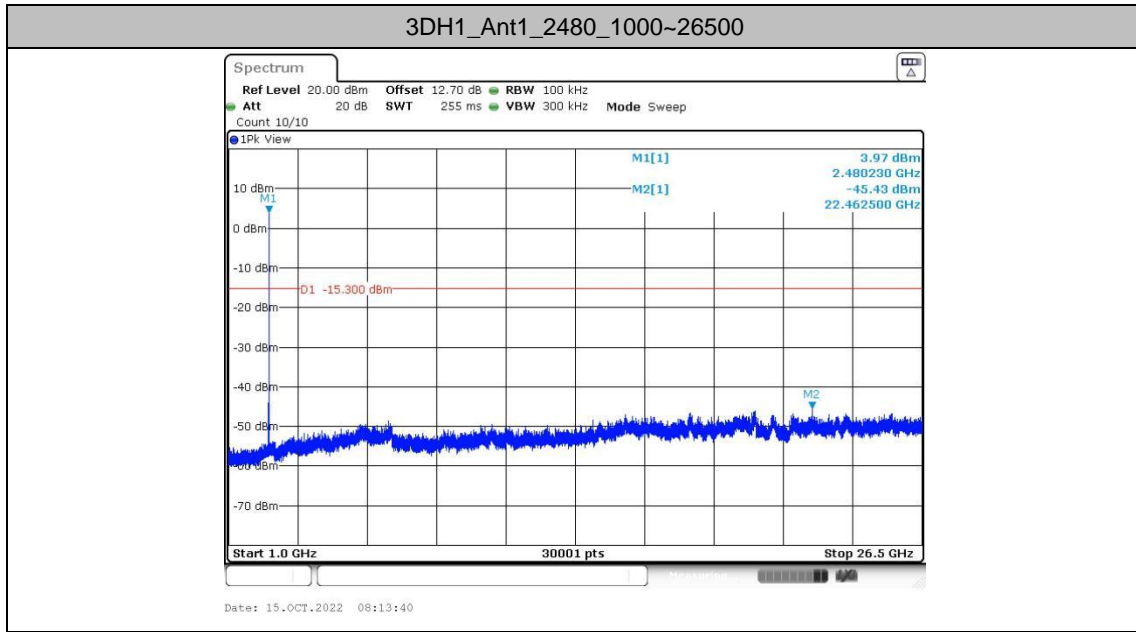


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3DH1\_Ant1\_2480\_30~1000



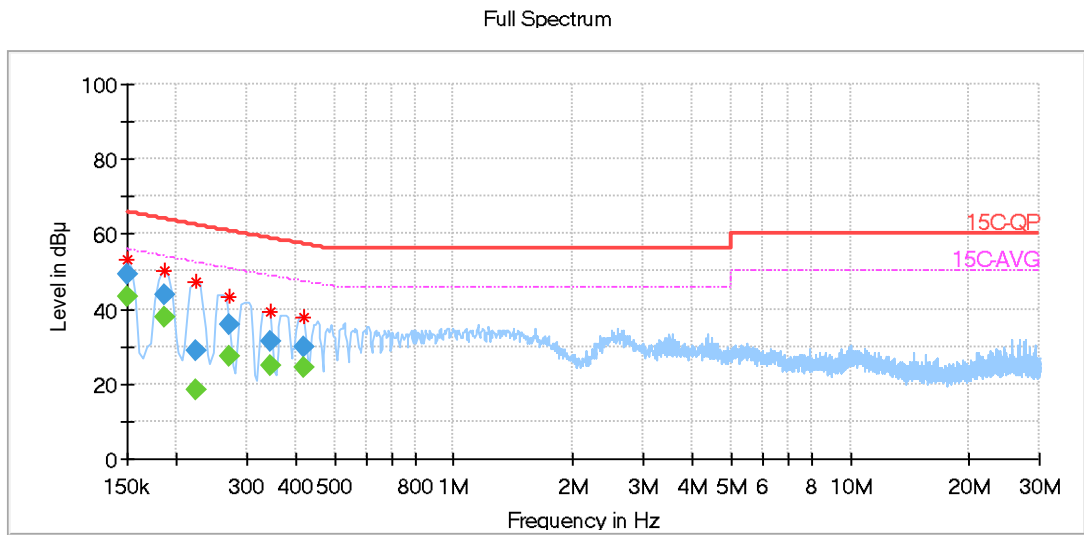






## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos	Temperature :	24.2~25.6°C
		Relative Humidity :	37~39%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



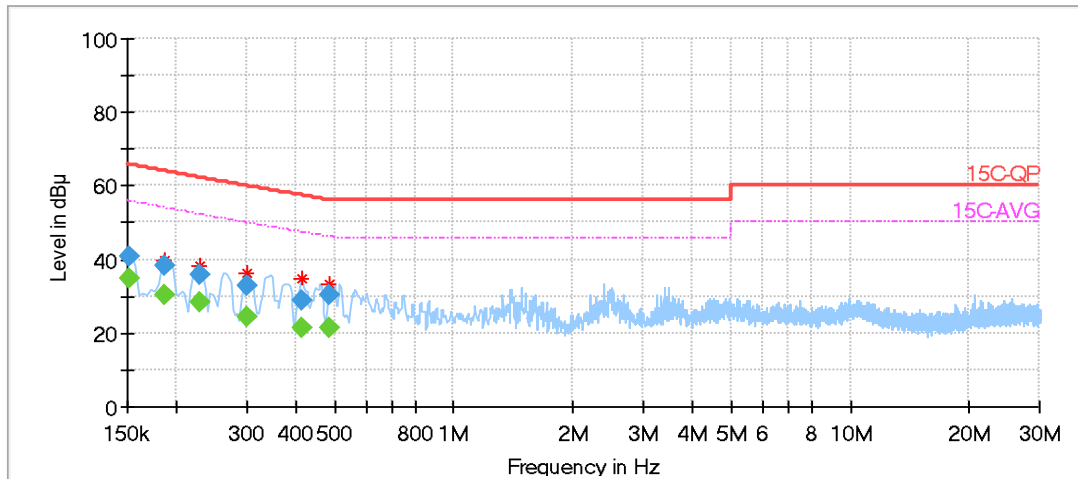
### Final\_Result

Frequency (MHz)	Quasi Peak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	43.49	56.00	12.51	L1	OFF	20.1
0.150000	49.10	---	66.00	16.90	L1	OFF	20.1
0.187312	---	37.68	54.00	16.32	L1	OFF	20.0
0.187312	43.63	---	64.03	20.40	L1	OFF	20.0
0.223856	---	18.23	52.45	34.22	L1	OFF	20.0
0.223856	28.65	---	62.49	33.84	L1	OFF	20.0
0.270169	---	27.51	50.87	23.36	L1	OFF	19.9
0.270169	35.92	---	60.91	24.99	L1	OFF	19.9
0.345562	---	24.89	48.86	23.97	L1	OFF	19.9
0.345562	31.56	---	58.90	27.33	L1	OFF	19.9
0.420188	---	24.42	47.33	22.90	L1	OFF	19.8
0.420188	29.96	---	57.35	27.39	L1	OFF	19.8



Test Engineer :	Amos	Temperature :	24.2~25.6°C
		Relative Humidity :	37~39%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	35.01	55.86	20.85	N	OFF	20.2
0.152250	40.59	---	65.87	25.28	N	OFF	20.2
0.187312	---	30.43	54.00	23.57	N	OFF	20.2
0.187312	38.26	---	64.03	25.77	N	OFF	20.2
0.229126	---	28.11	52.26	24.14	N	OFF	20.1
0.229126	35.82	---	62.29	26.47	N	OFF	20.1
0.301500	---	24.41	49.96	25.55	N	OFF	20.0
0.301500	32.85	---	60.00	27.15	N	OFF	20.0
0.414919	---	21.62	47.42	25.80	N	OFF	19.9
0.414919	28.96	---	57.44	28.48	N	OFF	19.9
0.487294	---	21.49	46.19	24.71	N	OFF	19.9
0.487294	30.58	---	56.20	25.62	N	OFF	19.9

Note: Margin (dB) = Peak/Average (dBµV) – Limit (dBµV)



## Appendix C. Radiated Spurious Emission

Test Engineer :	Carry Xu	Temperature :	22~23°C
		Relative Humidity :	41~42%

### 2.4GHz 2400~2483.5MHz

#### BT (Band Edge @ 3m)

BT	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
BT CH00 2402MHz		2389.04	47.95	-26.05	74	44.96	32.4	7.1	36.51	119	125	P	H	
	*	2389.04	23.16	-30.84	54	-	-	-	-	-	-	A	H	
		2402	103.41	-	-	100.39	32.4	7.13	36.51	119	125	P	H	
		2402	78.62	-	-	-	-	-	-	-	-	A	H	
		2379.29	47.54	-26.46	74	44.68	32.31	7.1	36.55	400	71	P	V	
	*	2379.29	22.75	-31.25	54	-	-	-	-	-	-	-	A	V
		2402	98.22	-	-	95.2	32.4	7.13	36.51	400	71	P	V	
		2402	73.43	-	-	-	-	-	-	-	-	-	A	V
BT CH 78 2480MHz		2490.82	47.14	-26.86	74	44.69	32.33	7.25	37.13	100	120	P	H	
	*	2490.82	22.35	-31.65	54	-	-	-	-	-	-	A	H	
		2480	100.69	-	-	98.12	32.34	7.25	37.02	100	120	P	H	
		2480	75.90	-	-	-	-	-	-	-	-	A	H	
		2484.04	48.82	-25.18	74	46.25	32.34	7.25	37.02	374	299	P	V	
	*	2484.04	24.03	-29.97	54	-	-	-	-	-	-	-	A	V
		2480	97.48	-	-	94.91	32.34	7.25	37.02	374	299	P	V	
		2480	72.69	-	-	-	-	-	-	-	-	-	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

BT	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
BT CH 00 2402MHz		4800	38.8	-35.2	74	59.85	34	10.2	65.25	300	0	P	H
		4800	39.15	-34.85	74	60.2	34	10.2	65.25	100	0	P	V
BT CH 39 2441MHz		4875	39.63	-34.37	74	60.62	34	10.29	65.28	300	0	P	H
		7320	41.15	-32.85	74	59.39	35.77	12.72	66.73	300	0	P	H
		4875	39.24	-34.76	74	60.23	34	10.29	65.28	100	0	P	V
		7320	41.85	-32.15	74	60.09	35.77	12.72	66.73	100	0	P	V
BT CH 78 2480MHz		4965	39.64	-34.36	74	60.55	34	10.41	65.32	300	0	P	H
		7440	40.82	-33.18	74	59.38	35.79	12.79	67.14	300	0	P	H
		4965	40.01	-33.99	74	60.92	34	10.41	65.32	100	0	P	V
		7440	40.54	-33.46	74	59.1	35.79	12.79	67.14	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz BT (LF)

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
		( MHz )	( dBμV/m )	( dB )	Limit	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
					Line	(dBμV)	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
2.4GHz BT LF		49.4	24.8	-15.2	40	41.35	15.38	1.05	32.98			P	H
		88.2	27.55	-15.95	43.5	43.21	15.6	1.42	32.68			P	H
		127.97	30.97	-12.53	43.5	44.32	17.77	1.72	32.84			P	H
		150.28	31.41	-12.09	43.5	44.86	17.5	1.85	32.8			P	H
		749.74	34.86	-11.14	46	36.87	26.5	4.19	32.7			P	H
		831.22	32.38	-13.62	46	33.45	27.09	4.4	32.56			P	H
		30	35.01	-4.99	40	41.5	25.5	0.71	32.7			P	V
		51.34	37.33	-2.67	40	54.46	14.84	1.07	33.04			P	V
		87.23	33.72	-6.28	40	49.62	15.4	1.42	32.72			P	V
		139.61	33.89	-9.61	43.5	47.28	17.63	1.8	32.82			P	V
		549.92	31.99	-14.01	46	35.11	25.9	3.58	32.6			P	V
		826.37	30.8	-15.2	46	31.9	27.06	4.39	32.55			P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



**Note symbol**

*	<b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is <b>over limit</b> line.
P/A	<b>Peak</b> or <b>Average</b>
H/V	<b>Horizontal</b> or <b>Vertical</b>



A calculation example for radiated spurious emission is shown as below:

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
BT CH 00 2402MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =  
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)  
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)  
= 55.45 (dBμV/m)
2. Over Limit(dB)  
= Level(dBμV/m) – Limit Line(dBμV/m)  
= 55.45(dBμV/m) – 74(dBμV/m)  
= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)  
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)  
= 43.54 (dBμV/m)
2. Over Limit(dB)  
= Level(dBμV/m) – Limit Line(dBμV/m)  
= 43.54(dBμV/m) – 54(dBμV/m)  
= -10.46(dB)

**Both peak and average measured complies with the limit line, so test result is “PASS”.**



## Appendix D. Radiated Spurious Emission Plots

Note symbol

-L	Low channel location
-R	High channel location





2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																					
ANT	BT CH00 2402MHz																																																																					
1	Horizontal	Fundamental																																																																				
<p>Peak</p>	<p>Site: 03C85-ES          Condition: FCC PART 15C No. 3117 OR 00218642 HORIZONTAL          Freq: 1000.000MHz VSW: 1000.000dB SW: Auto          Project: FR261401-01          Role: I          Plane: Y          Type: Full-directivity          IMEI: 842</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBW/m</th> <th>dB</th> <th>dBW/m</th> <th>dBW/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>cm</th> <th>deg</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2389.84</td> <td>47.95</td> <td>-26.85</td> <td>74.80</td> <td>44.96</td> <td>32.40</td> <td>7.10</td> <td>36.51</td> <td>119</td> <td>125 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBW/m	dB	dBW/m	dBW/m	dB	dB	cm	cm	deg		1	2389.84	47.95	-26.85	74.80	44.96	32.40	7.10	36.51	119	125 Peak	HORIZONTAL	<p>Site: 03C85-ES          Condition: FCC PART 15C No. 3117 OR 00218642 HORIZONTAL          Freq: 1000.000MHz VSW: 1000.000dB SW: Auto          Project: FR261401-01          Role: I          Plane: Y          Type: Full-directivity          IMEI: 842</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBW/m</th> <th>dB</th> <th>dBW/m</th> <th>dBW/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>cm</th> <th>deg</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2482.00</td> <td>183.41</td> <td>29.41</td> <td>74.80</td> <td>389.39</td> <td>32.40</td> <td>7.13</td> <td>36.51</td> <td>119</td> <td>125 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBW/m	dB	dBW/m	dBW/m	dB	dB	cm	cm	deg		1	2482.00	183.41	29.41	74.80	389.39	32.40	7.13	36.51	119	125 Peak	HORIZONTAL
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																												
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ANT	BT CH00 2402MHz																																																																			
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<p><b>Peak</b></p>	<p>Site : 033805-E5          Condition : FCC PART 15C 3m 0117 3M 0011044 VERTICAL          Freq 1000.000MHz YDF 1000.000MHz SWF Auto          Project : FR261401-01          Band : I          File : I          Full-directivity : I          IRE1 : I</p> <table border="1"> <thead> <tr> <th>IRE1</th> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBm/Vm</th> <th>dB</th> <th>dBm/Vm</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2379.29</td> <td>47.54</td> <td>-26.46</td> <td>74.00</td> <td>44.68</td> <td>32.31</td> <td>7.18</td> <td>36.55</td> <td>400</td> <td>71 Peak VERTICAL</td> </tr> </tbody> </table>	IRE1	Freq	Level	Over Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBm/Vm	dB	dBm/Vm	dB	dB	cm	deg			1	2379.29	47.54	-26.46	74.00	44.68	32.31	7.18	36.55	400	71 Peak VERTICAL	<p>Site : 033805-E5          Condition : FCC PART 15C 3m 0117 3M 0011044 VERTICAL          Freq 1000.000MHz YDF 1000.000MHz SWF Auto          Project : FR261401-01          Band : I          File : I          Full-directivity : I          IRE1 : I</p> <table border="1"> <thead> <tr> <th>IRE1</th> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBm/Vm</th> <th>dB</th> <th>dBm/Vm</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2482.00</td> <td>98.22</td> <td>24.22</td> <td>74.00</td> <td>95.20</td> <td>32.40</td> <td>7.13</td> <td>36.51</td> <td>400</td> <td>71 Peak VERTICAL</td> </tr> </tbody> </table>	IRE1	Freq	Level	Over Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBm/Vm	dB	dBm/Vm	dB	dB	cm	deg			1	2482.00	98.22	24.22	74.00	95.20	32.40	7.13	36.51	400	71 Peak VERTICAL
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1	2482.00	98.22	24.22	74.00	95.20	32.40	7.13	36.51	400	71 Peak VERTICAL																																																										



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2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

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ANT	BT CH00 2402MHz																																																											
1	Horizontal	Vertical																																																										
<p><b>Peak</b></p> <p><b>Avg.</b></p>	<p>No. 1098, Pengxi North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p> <p>Site Condition: 032005-K3 FCC PART 15C 3m 3117.0M 001864Z HORIZONTAL RSM 1000.000000 VSW 1.000.000000 ZPT Auto Project: FRU261401-01 Mode: 1 Plane: 2 Full-directivity IMEI: 862</p> <table border="1"> <thead> <tr> <th>IMEI</th> <th>Over Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>cn</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4800.00</td> <td>38.80</td> <td>-35.20</td> <td>74.00</td> <td>59.85</td> <td>34.00</td> <td>10.20</td> <td>65.25</td> <td>300</td> <td>0 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	IMEI	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cn	deg	1	4800.00	38.80	-35.20	74.00	59.85	34.00	10.20	65.25	300	0 Peak	HORIZONTAL	<p>No. 1098, Pengxi North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p> <p>Site Condition: 032005-K3 FCC PART 15C 3m 3117.0M 001864Z VERTICAL RSM 1000.000000 VSW 1.000.000000 ZPT Auto Project: FRU261401-01 Mode: 1 Plane: 2 Full-directivity IMEI: 862</p> <table border="1"> <thead> <tr> <th>IMEI</th> <th>Over Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>cn</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4800.00</td> <td>39.15</td> <td>-34.85</td> <td>74.00</td> <td>60.20</td> <td>34.00</td> <td>10.20</td> <td>65.25</td> <td>100</td> <td>0 Peak</td> <td>VERTICAL</td> </tr> </tbody> </table>	IMEI	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cn	deg	1	4800.00	39.15	-34.85	74.00	60.20	34.00	10.20	65.25	100	0 Peak	VERTICAL
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Emission below 1GHz

2.4GHz BT (LF)

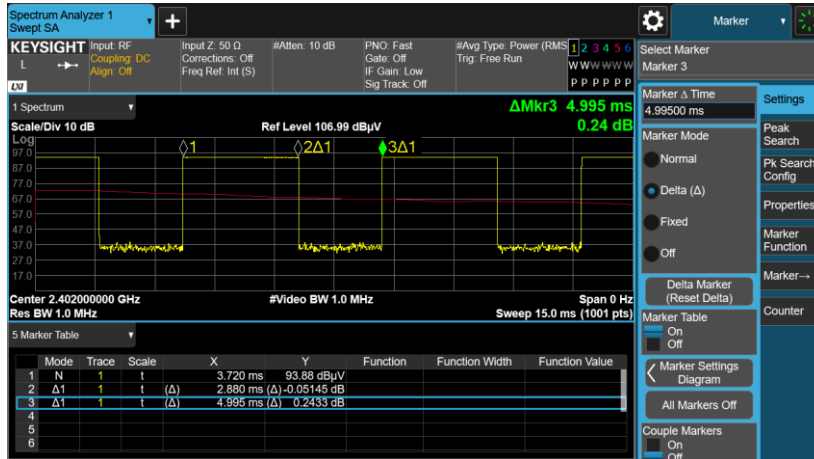
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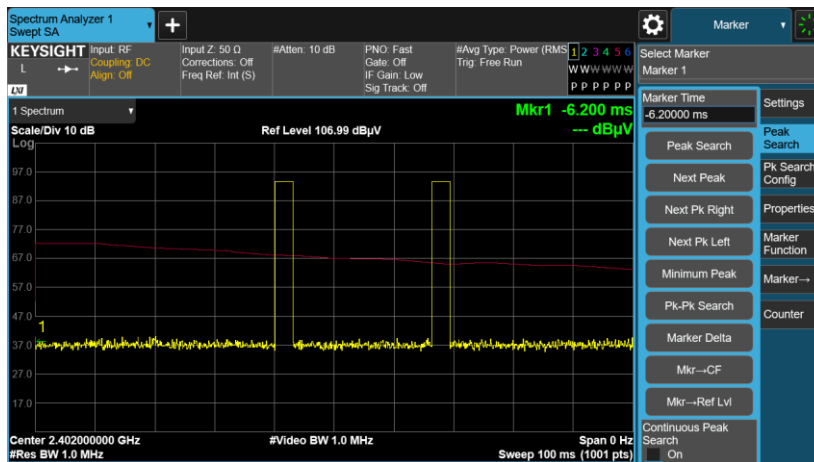


# Appendix E. Duty Cycle Plots

## DH5 on time (One Pulse) Plot on Channel 00



## DH5 on time (Count Pulses) Plot on Channel 00



### Note:

1. Worst case Duty cycle = on time/100 milliseconds = 2 \* 2.88 / 100 = 5.76 %
2. Worst case Duty cycle correction factor = 20\*log(Duty cycle) = -24.79 dB
3. DH5 has the highest duty cycle worst case and is reported.