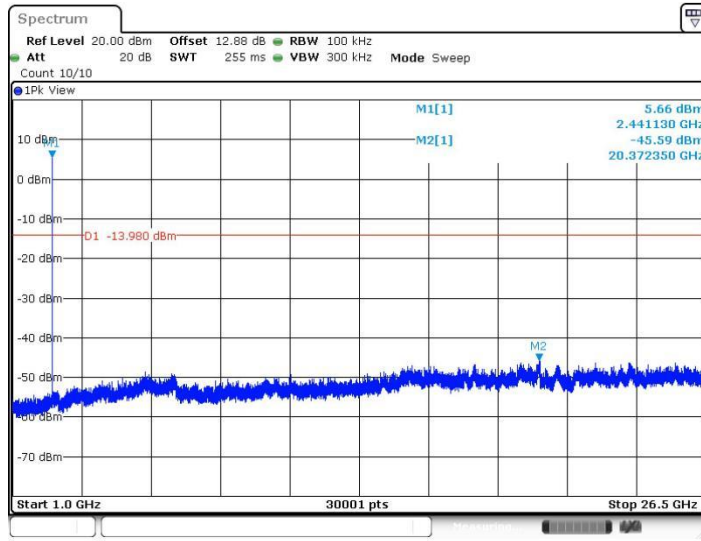


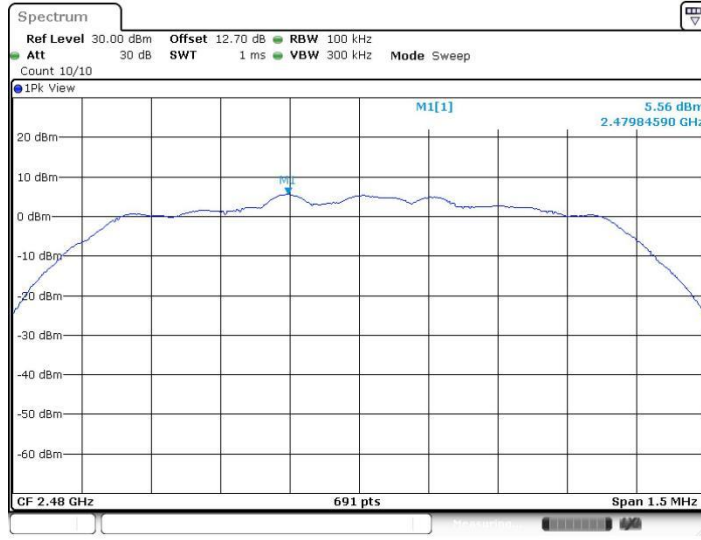


2DH1_Ant2_2441_1000~26500



Date: 9.SEP.2022 05:31:36

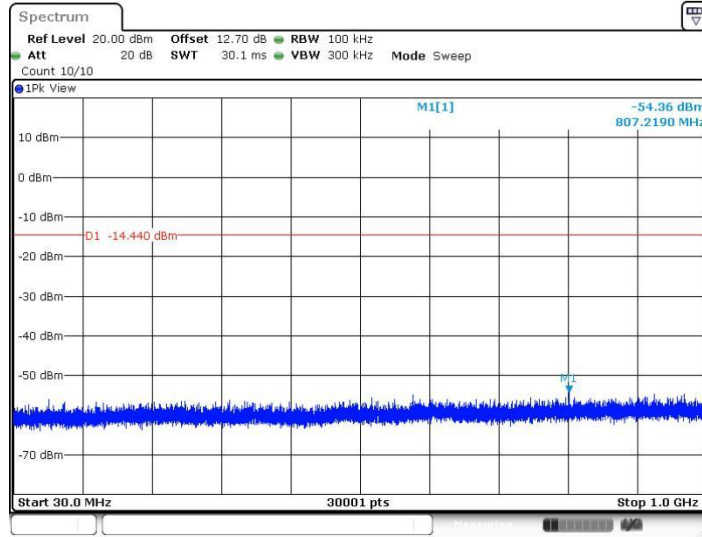
2DH1_Ant2_2480_0~Reference



Date: 9.SEP.2022 05:32:26

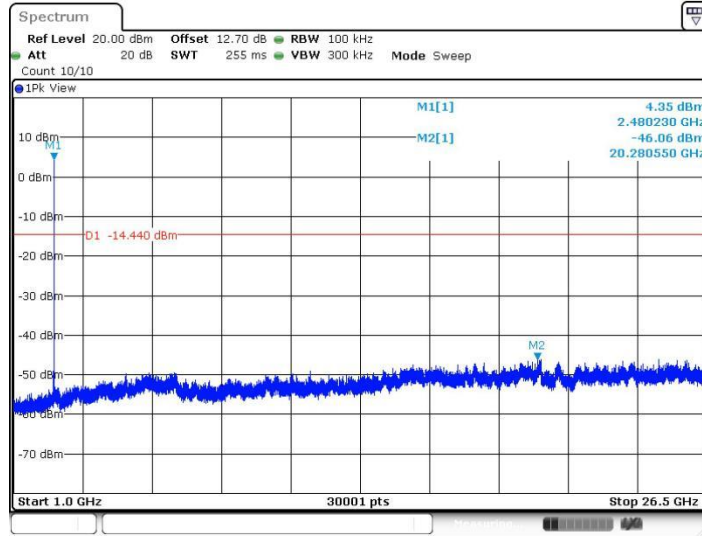


2DH1_Ant2_2480_30~1000



Date: 9.SEP.2022 05:32:32

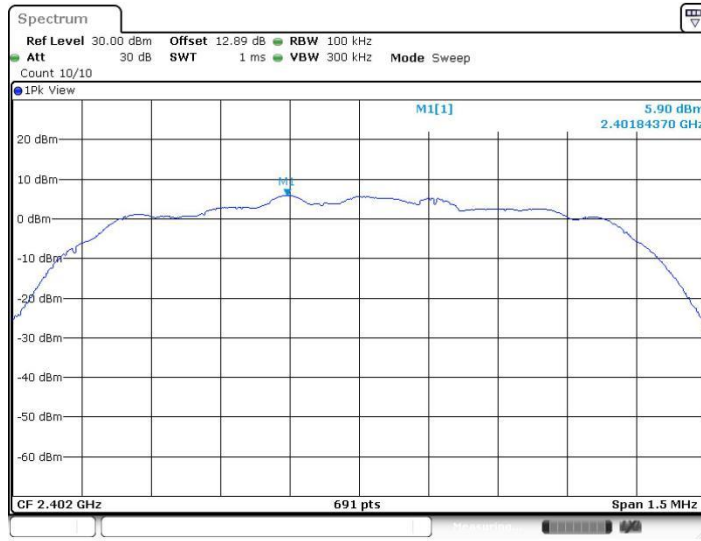
2DH1_Ant2_2480_1000~26500



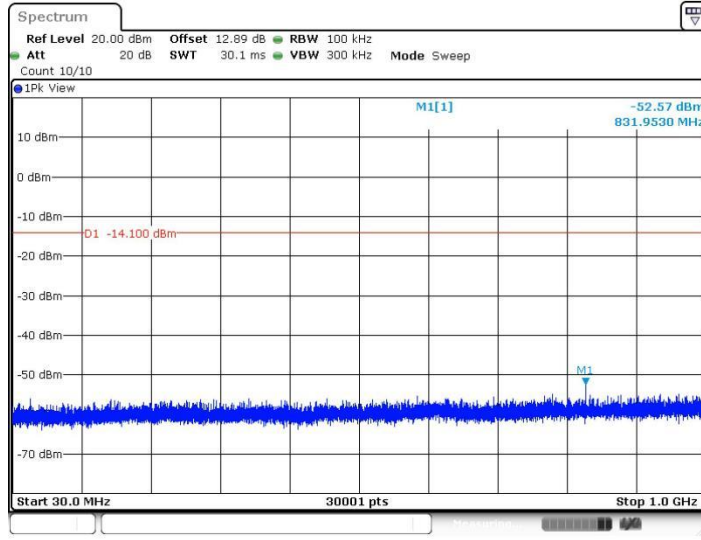
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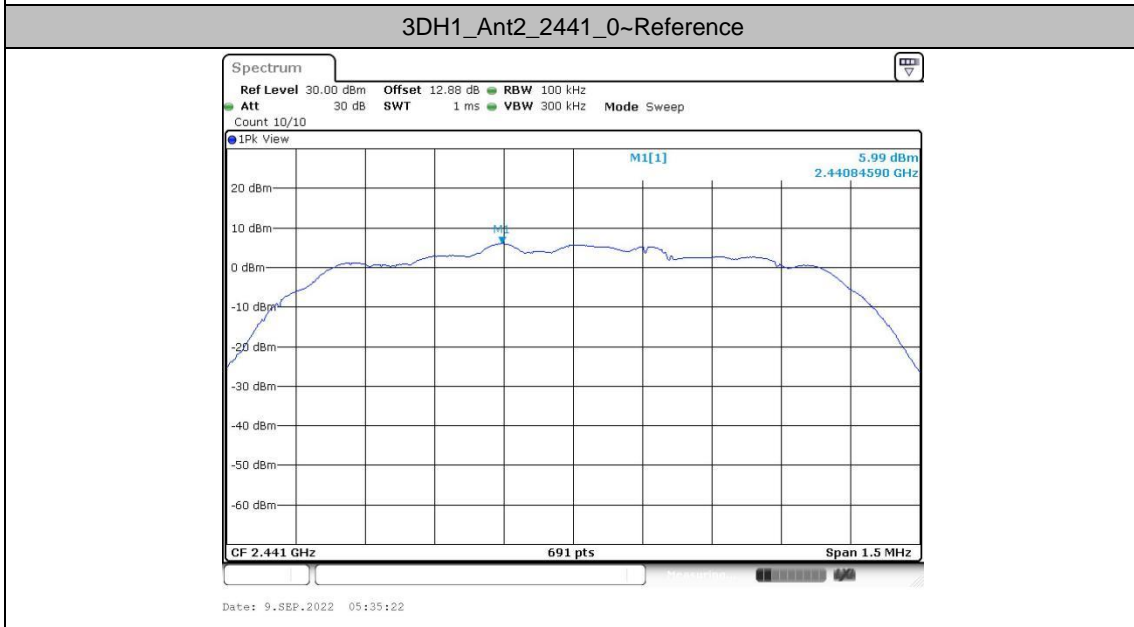
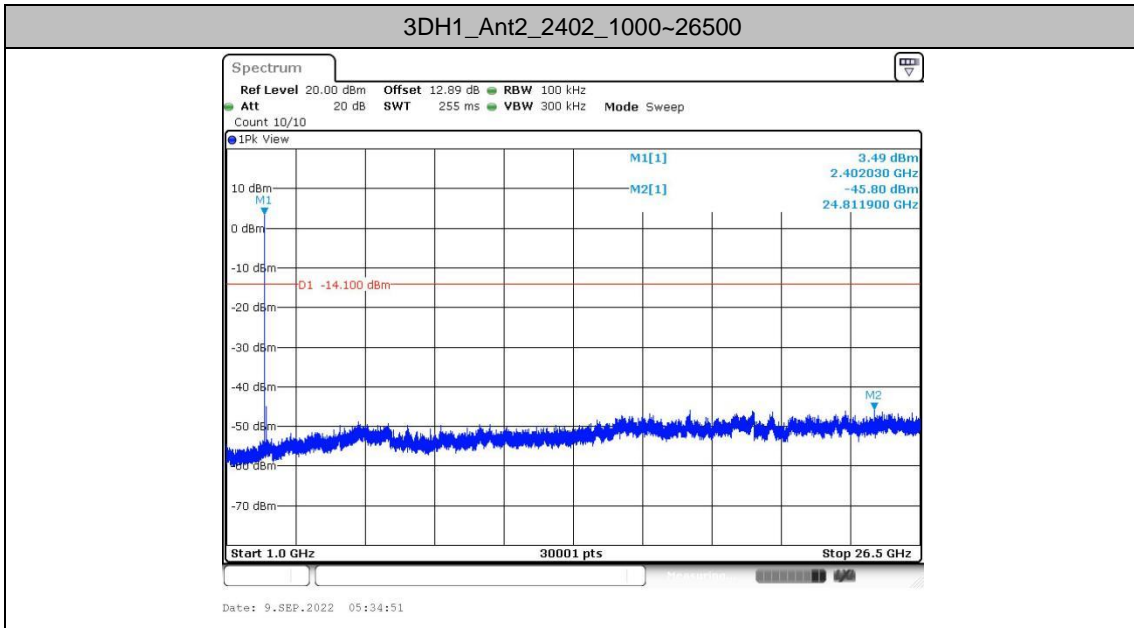


3DH1_Ant2_2402_0~Reference



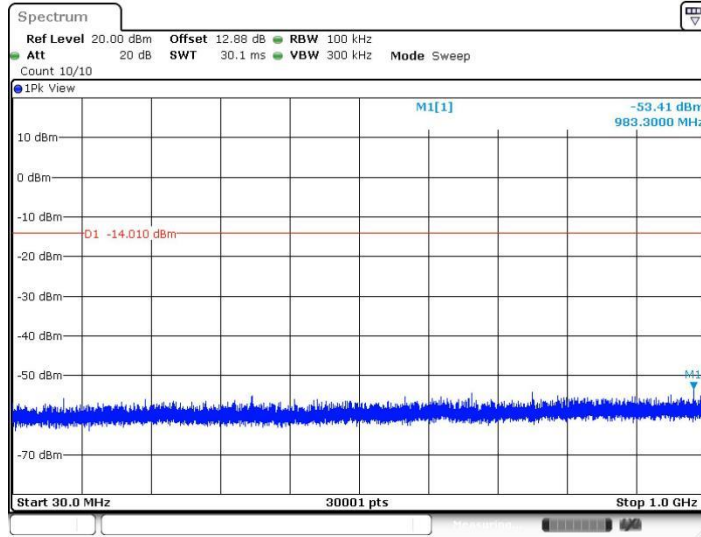
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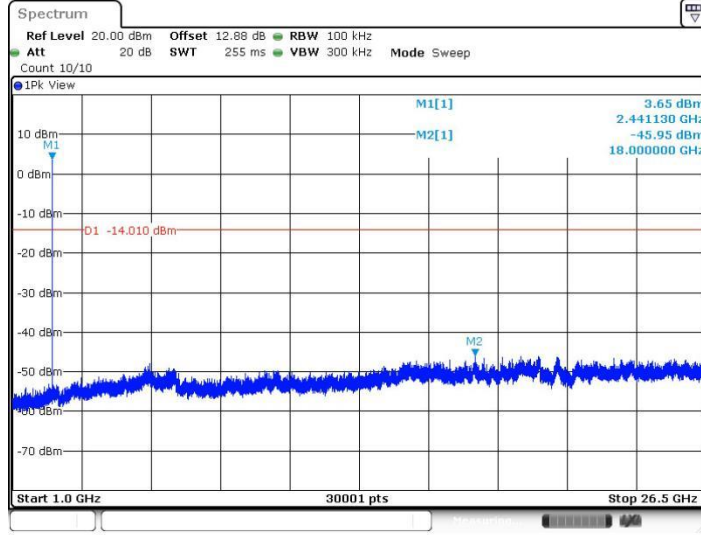


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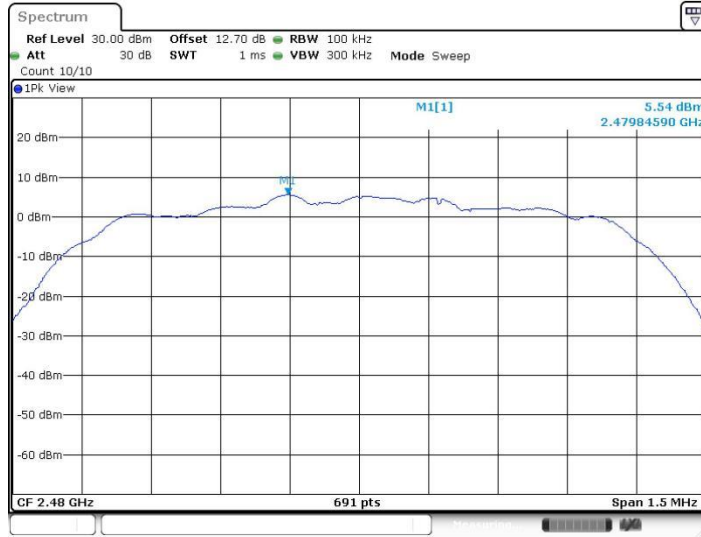
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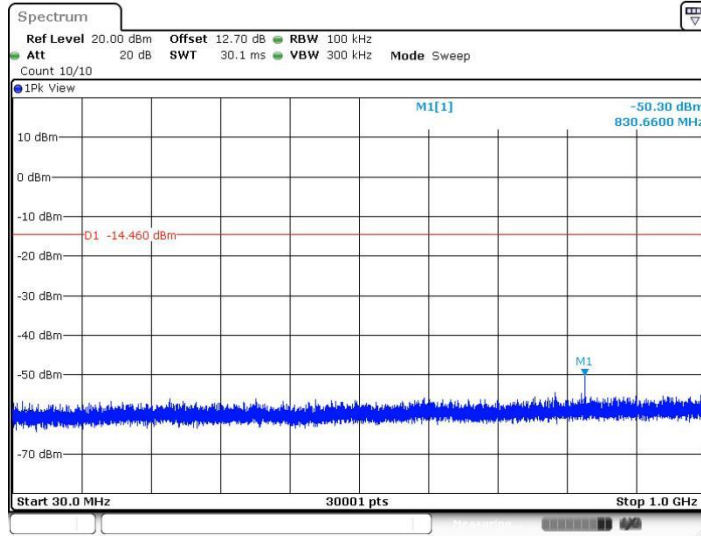
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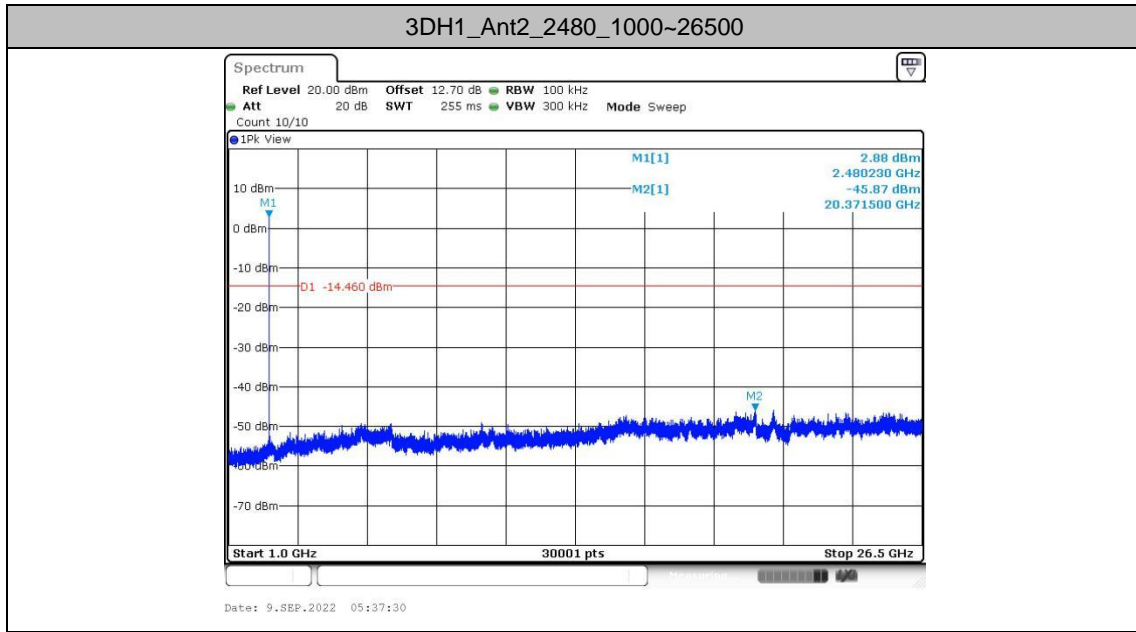


3DH1_Ant2_2480_0~Reference



3DH1_Ant2_2480_30~1000

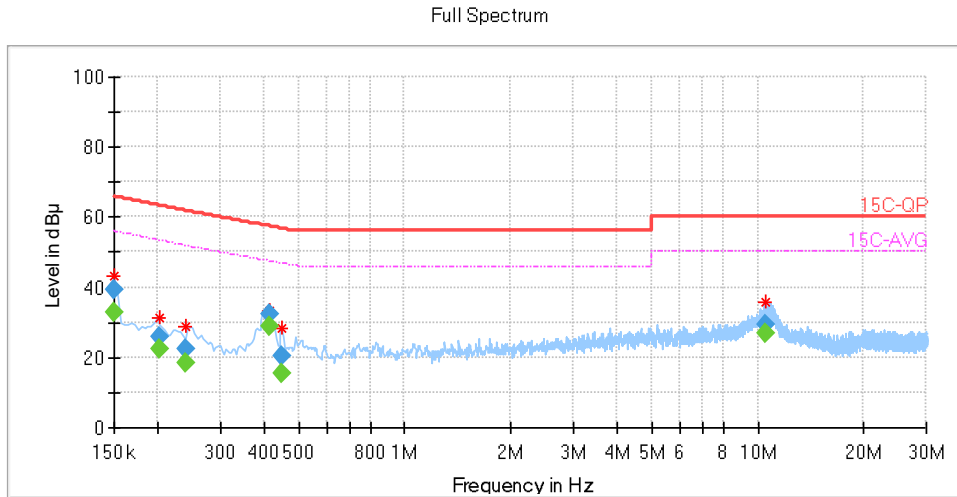






Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos zhang	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.		

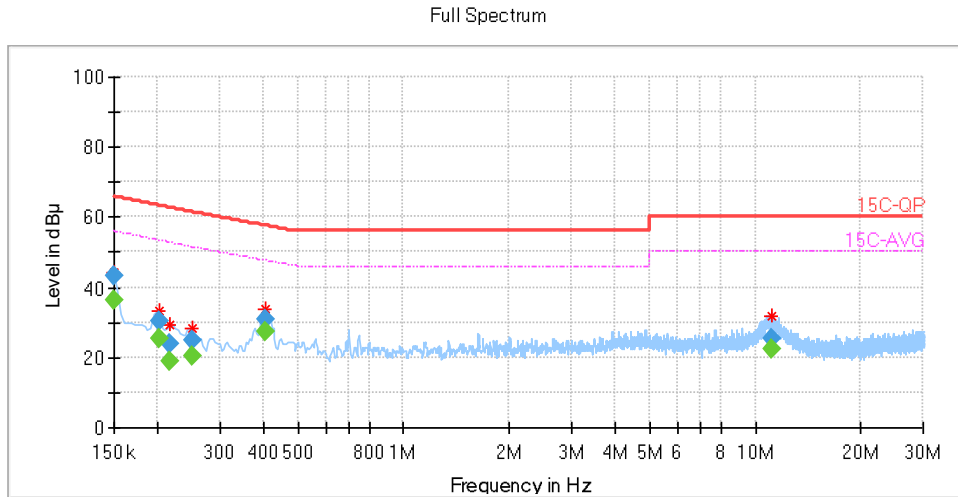


Final Result

Frequency (MHz)	Quasi Peak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	32.61	56.00	23.39	L1	OFF	20.1
0.150000	39.23	---	66.00	26.78	L1	OFF	20.1
0.200756	---	22.40	53.40	30.99	L1	OFF	20.0
0.200756	25.87	---	63.43	37.56	L1	OFF	20.0
0.238012	---	18.31	51.93	33.62	L1	OFF	19.9
0.238012	22.39	---	61.97	39.58	L1	OFF	19.9
0.411956	---	28.98	47.48	18.50	L1	OFF	19.9
0.411956	32.33	---	57.50	25.17	L1	OFF	19.9
0.448500	---	15.62	46.82	31.20	L1	OFF	19.8
0.448500	20.27	---	56.84	36.57	L1	OFF	19.8
10.488525	---	26.68	50.00	23.32	L1	OFF	20.0
10.488525	29.52	---	60.00	30.48	L1	OFF	20.0



Test Engineer :	Amos zhang	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.		



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	36.14	56.00	19.86	N	OFF	20.2
0.150000	43.22	---	66.00	22.78	N	OFF	20.2
0.200756	---	25.33	53.40	28.06	N	OFF	20.2
0.200756	30.31	---	63.43	33.12	N	OFF	20.2
0.216394	---	19.07	52.75	33.68	N	OFF	20.2
0.216394	24.01	---	62.78	38.77	N	OFF	20.2
0.249262	---	20.44	51.54	31.10	N	OFF	20.1
0.249262	25.05	---	61.58	36.53	N	OFF	20.1
0.404494	---	27.57	47.62	20.05	N	OFF	19.9
0.404494	30.61	---	57.64	27.04	N	OFF	19.9
11.087787	---	22.58	50.00	27.42	N	OFF	20.1
11.087787	25.36	---	60.00	34.64	N	OFF	20.1



Appendix C. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH00 2402MHz		2389.95	50.59	-23.41	74	47.47	32.88	7.1	36.86	298	263	P	H
	*	2389.95	25.79	-28.21	54	-	-	-	-	-	-	A	H
		2402	109.58	-	-	106.43	32.88	7.13	36.86	298	263	P	H
		2402	84.78	-	-	-	-	-	-	-	-	A	H
		2389.95	50.36	-23.64	74	47.24	32.88	7.1	36.86	117	144	P	V
	*	2389.95	25.56	-28.44	54	-	-	-	-	-	-	A	V
		2402	109.41	-	-	106.26	32.88	7.13	36.86	117	144	P	V
		2402	84.61	-	-	-	-	-	-	-	-	A	V
BT CH 39 2441MHz		2363.43	48.68	-25.32	74	45.66	32.83	7.07	36.88	295	267	P	H
	*	2363.43	23.88	-30.12	54	-	-	-	-	-	-	A	H
		2442	109.38	-	-	106.09	32.94	7.19	36.84	295	267	P	H
		2442	84.58	-	-	-	-	-	-	-	-	A	H
		2498.46	48.31	-25.69	74	44.84	33	7.28	36.81	295	267	P	H
		2498.46	23.51	-30.49	54	-	-	-	-	-	-	A	H
		2366.03	48.19	-25.81	74	45.17	32.83	7.07	36.88	100	142	P	V
	*	2366.03	23.39	-30.61	54	-	-	-	-	-	-	A	V
		2442	108.73	-	-	105.44	32.94	7.19	36.84	100	142	P	V
		2442	83.93	-	-	-	-	-	-	-	-	A	V
		2492.79	49.20	-24.80	74	45.73	33	7.28	36.81	100	142	P	V
		2492.79	24.40	-29.60	54	-	-	-	-	-	-	A	V



BT CH 78 2480MHz	*	2480	108.58	-	-	105.17	32.98	7.25	36.82	140	255	P	H
		2480	83.78	-	-	-	-	-	-	-	-	A	H
		2486.02	54.80	-19.20	74	51.39	32.98	7.25	36.82	140	255	P	H
		2486.02	30.00	-24.00	54	-	-	-	-	-	-	A	H
	*	2480	109.34	-	-	105.93	32.98	7.25	36.82	112	143	P	V
		2480	84.54	-	-	-	-	-	-	-	-	A	V
		2483.5	54.76	-19.24	74	51.35	32.98	7.25	36.82	112	143	P	V
		2483.5	29.96	-24.04	54	-	-	-	-	-	-	A	V
Remark	<ol style="list-style-type: none"> No other spurious found. 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	38.97	-35.03	74	59.95	34.19	10.2	65.37	300	0	P	H
		4800	39.6	-34.4	74	60.58	34.19	10.2	65.37	100	0	P	V
BT CH 39 2441MHz		4875	39.7	-34.3	74	60.6	34.23	10.29	65.42	300	0	P	H
		7320	41.64	-32.36	74	59.01	35.87	12.72	65.96	300	0	P	H
		4875	39.54	-34.46	74	60.44	34.23	10.29	65.42	100	0	P	V
		7320	41.87	-32.13	74	59.24	35.87	12.72	65.96	100	0	P	V
BT CH 78 2480MHz		4965	39.31	-34.69	74	60.09	34.28	10.41	65.47	300	0	P	H
		7440	42.02	-31.98	74	59.65	35.89	12.79	66.31	300	0	P	H
		4965	39.93	-34.07	74	60.71	34.28	10.41	65.47	100	0	P	V
		7440	41.9	-32.1	74	59.53	35.89	12.79	66.31	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		47.46	25.2	-14.8	40	41.7	15.4	1.04	32.94	-	-	P	H
		169.68	23.25	-20.25	43.5	38.08	16.02	1.98	32.83	-	-	P	H
		269.59	24.79	-21.21	46	36.3	18.77	2.51	32.79	-	-	P	H
		331.67	33.8	-12.2	46	43.9	20.02	2.77	32.89	-	-	P	H
		419.94	34.4	-11.6	46	42.17	22.02	3.13	32.92	-	-	P	H
		742.95	31.36	-14.64	46	34.27	25.75	4.17	32.83	-	-	P	H
		41.64	33.8	-6.2	40	47.68	18.11	0.97	32.96	-	-	P	V
		79.47	29.35	-10.65	40	47.63	13.15	1.34	32.77	-	-	P	V
		167.74	26.64	-16.86	43.5	41.44	16.06	1.97	32.83	-	-	P	V
		336.52	25.13	-20.87	46	35.11	20.13	2.79	32.9	-	-	P	V
		411.21	30.51	-15.49	46	38.43	21.87	3.09	32.88	-	-	P	V
	761.38	29.44	-16.56	46	32.07	25.93	4.22	32.78	-	-	P	V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

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



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)	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
					(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

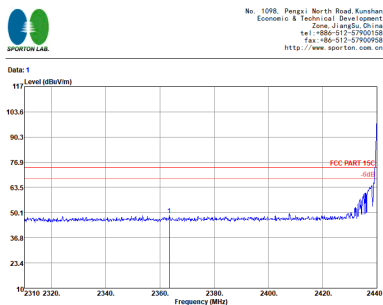
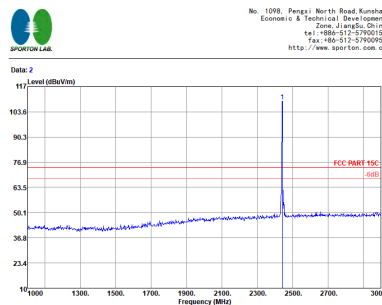
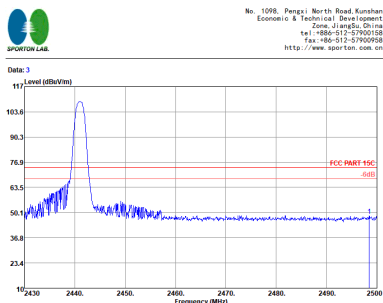
Note symbol

-L	Low channel location
-R	High channel location



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																									
ANT	BT CH00 2402MHZ																																																									
2	Vertical	Fundamental																																																								
<p>Peak</p>	<p>Site : 030H05-K5 Condition : F10 30W1 15C 3m 3117 5N 1050V VERTICAL Project : RBM 1000 000MHz YBR 1000 000MHz SRT Auto Mode : FR2160819-01 Plane : Z Full Directivity PA23 MEI : SN 000208012263048T #14 PowerRating : 7/2/2</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Poa</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss Factor</th> <th>dB</th> <th>dB</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2399.95</td> <td>50.36</td> <td>-23.64</td> <td>74.00</td> <td>47.24</td> <td>32.88</td> <td>7.10</td> <td>36.86</td> <td>117</td> <td>144 Peak</td> <td>VERTICAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable Preamp	A/Poa	T/Pos	Remark	Pol/Phas	Freq	Level	Limit	Level	Factor	Loss Factor	dB	dB	1	2399.95	50.36	-23.64	74.00	47.24	32.88	7.10	36.86	117	144 Peak	VERTICAL	<p>Site : 030H05-K5 Condition : F10 30W1 15C 3m 3117 5N 1050V VERTICAL Project : RBM 1000 000MHz YBR 1000 000MHz SRT Auto Mode : FR2160819-01 Plane : Z Full Directivity PA23 MEI : SN 000208012263048T #14 PowerRating : 7/2/2</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Poa</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss Factor</th> <th>dB</th> <th>dB</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2402.00</td> <td>109.41</td> <td>35.41</td> <td>74.00</td> <td>106.26</td> <td>32.88</td> <td>7.13</td> <td>36.86</td> <td>117</td> <td>144 Peak</td> <td>VERTICAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable Preamp	A/Poa	T/Pos	Remark	Pol/Phas	Freq	Level	Limit	Level	Factor	Loss Factor	dB	dB	1	2402.00	109.41	35.41	74.00	106.26	32.88	7.13	36.86	117	144 Peak	VERTICAL
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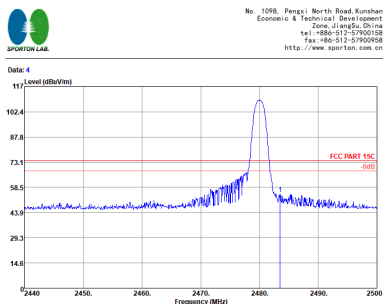
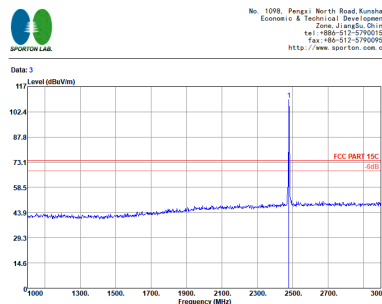


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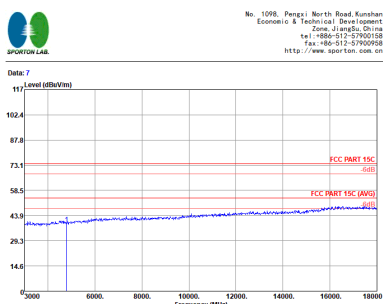
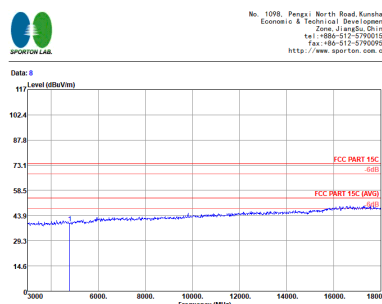


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BT (Harmonic @ 3m)

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Note: Pre-scanned for 18GHz to 26GHz, there are no signals, thus only test data below 18GHz are shown in the report.



Emission below 1GHz

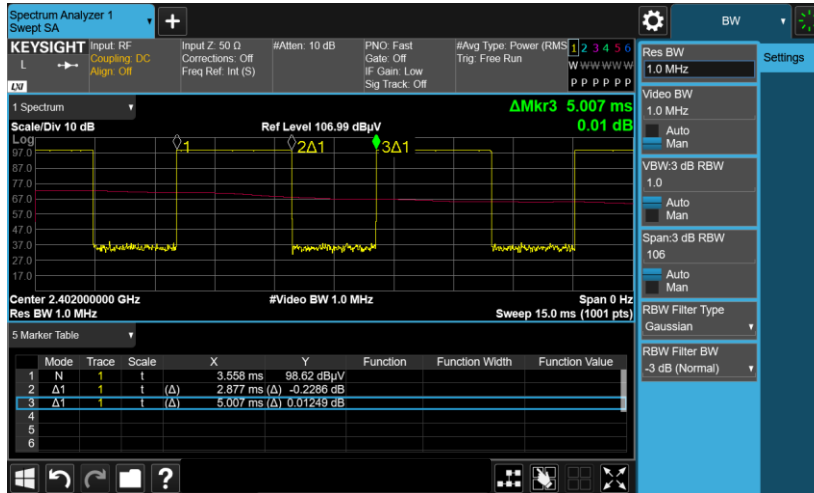
2.4GHz BT (LF)

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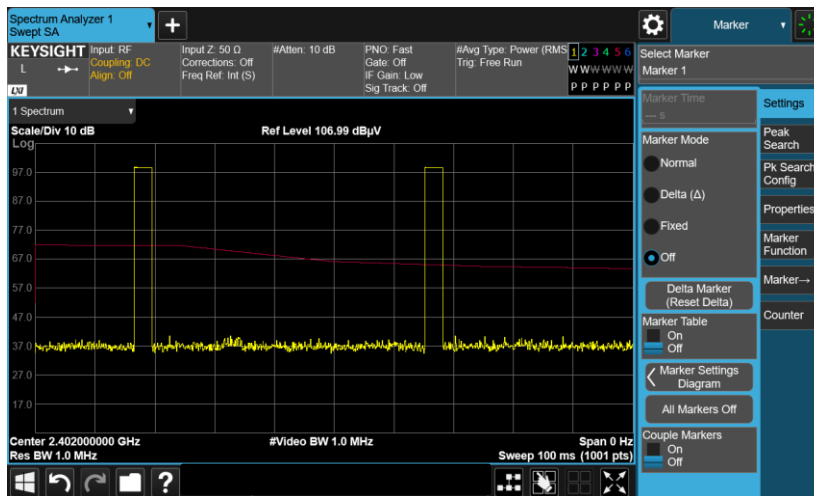


Appendix E. Duty Cycle Plots

3DH5 on time (One Pulse) Plot on Channel 00



3DH5 on time (Count Pulses) Plot on Channel 00



Note:

1. Worst case Duty cycle = on time/100 milliseconds = 2 * 2.877 / 100 = 5.75 %
2. Worst case Duty cycle correction factor = 20*log(Duty cycle) = -24.80 dB
3. 3DH5 has the highest duty cycle worst case and is reported.