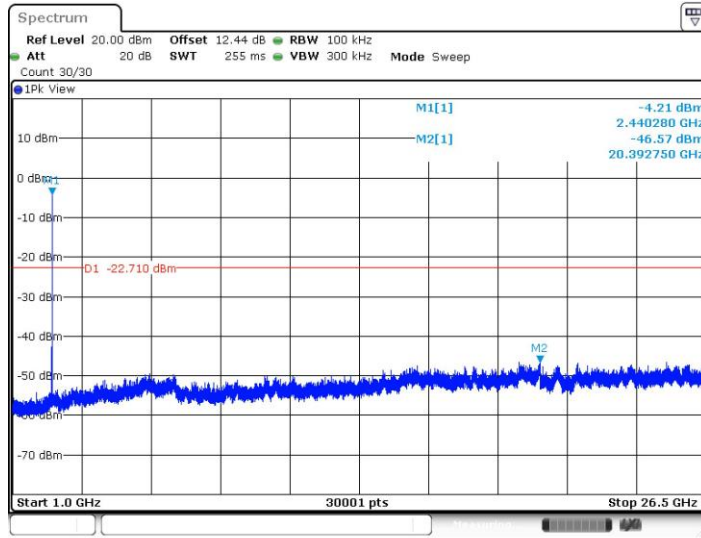
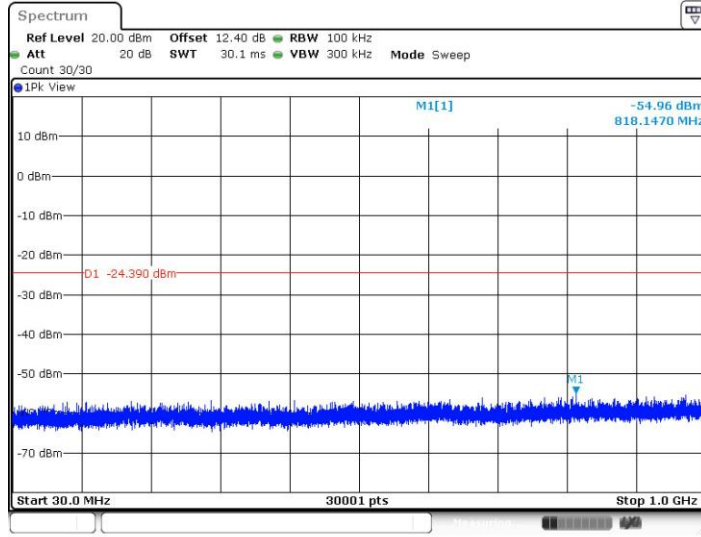




BLE\_1M\_Ant2\_2440\_1000~26500

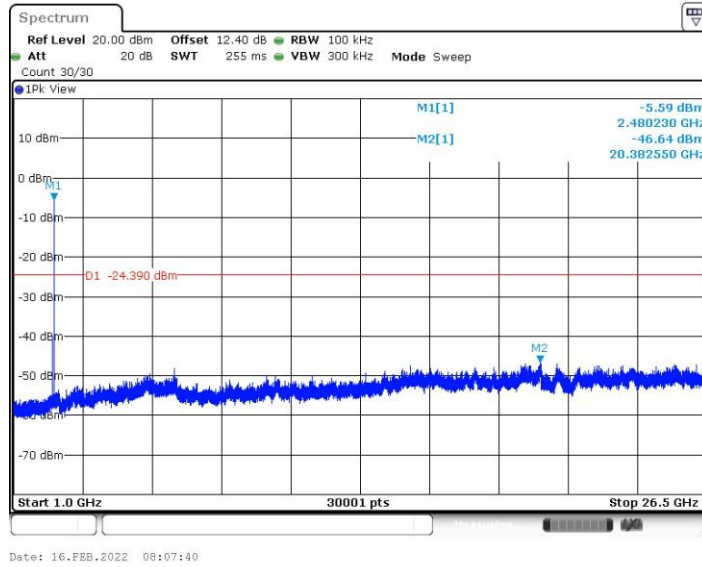


BLE\_1M\_Ant1\_2480\_30~1000

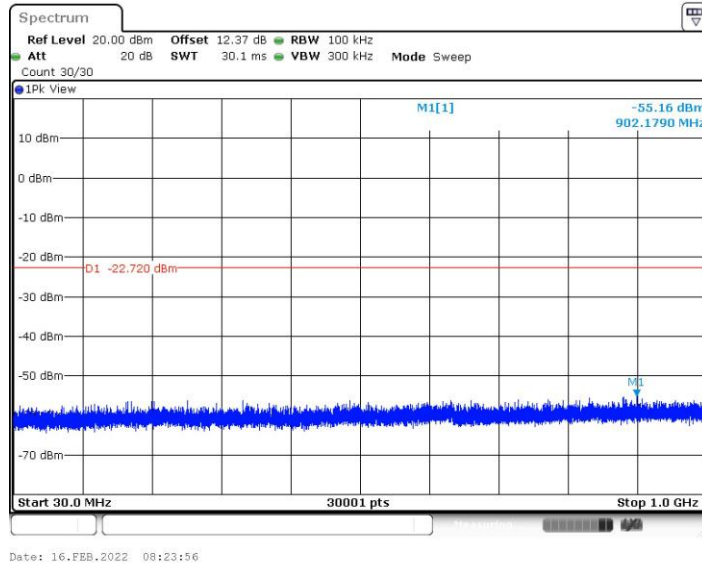




BLE\_1M\_Ant1\_2480\_1000~26500

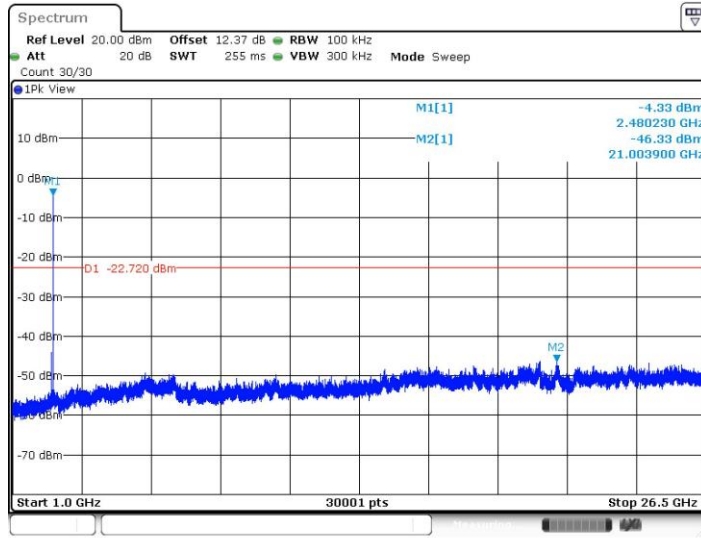


BLE\_1M\_Ant2\_2480\_30~1000

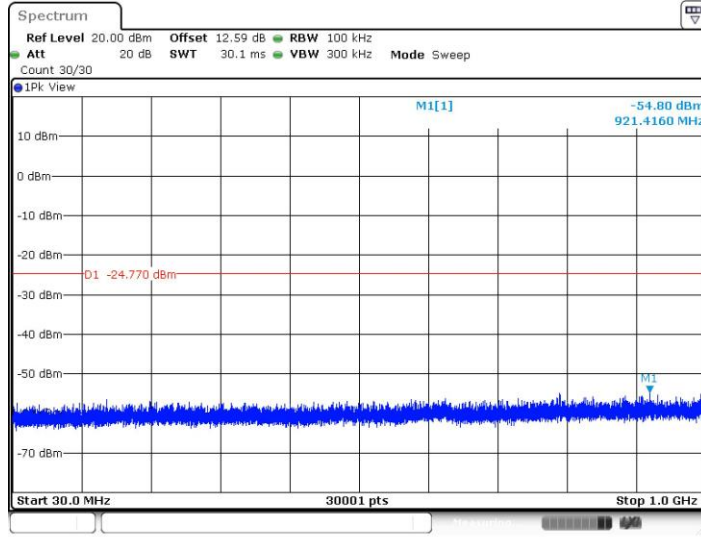




BLE\_1M\_Ant2\_2480\_1000~26500

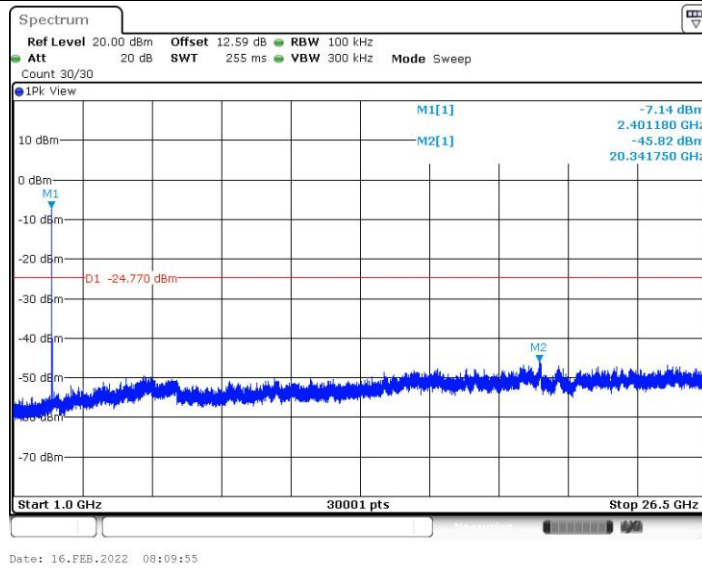


BLE\_2M\_Ant1\_2402\_30~1000

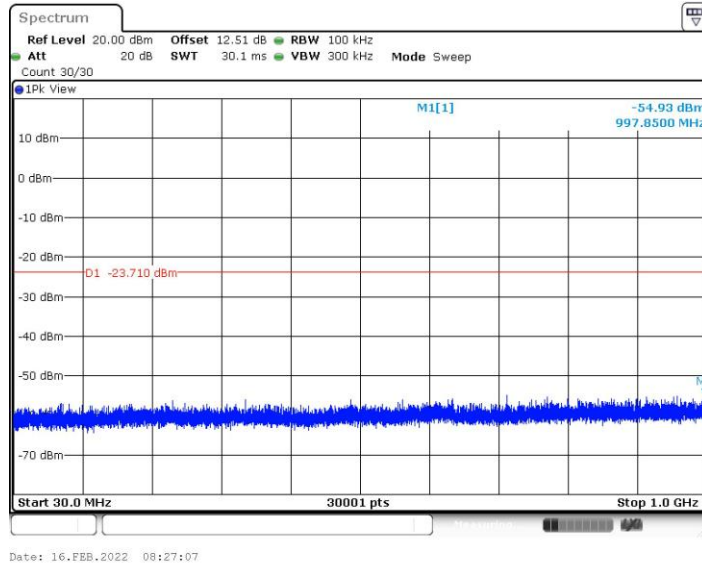




BLE\_2M\_Ant1\_2402\_1000~26500

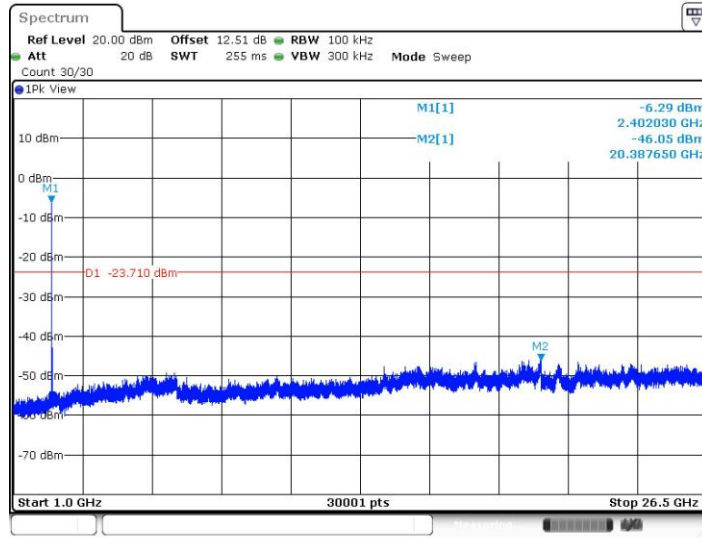


BLE\_2M\_Ant2\_2402\_30~1000

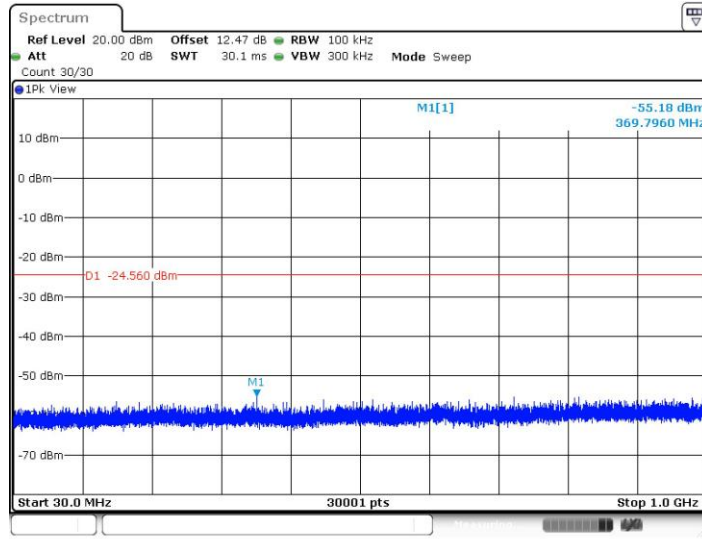




BLE\_2M\_Ant2\_2402\_1000~26500

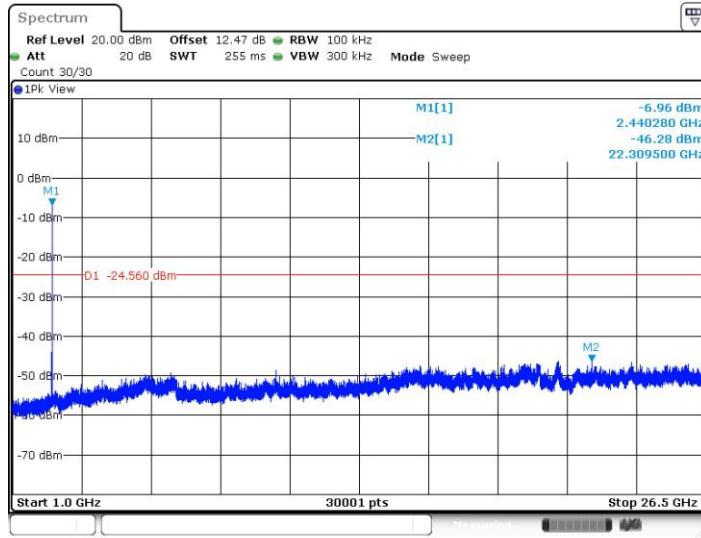


BLE\_2M\_Ant1\_2440\_30~1000



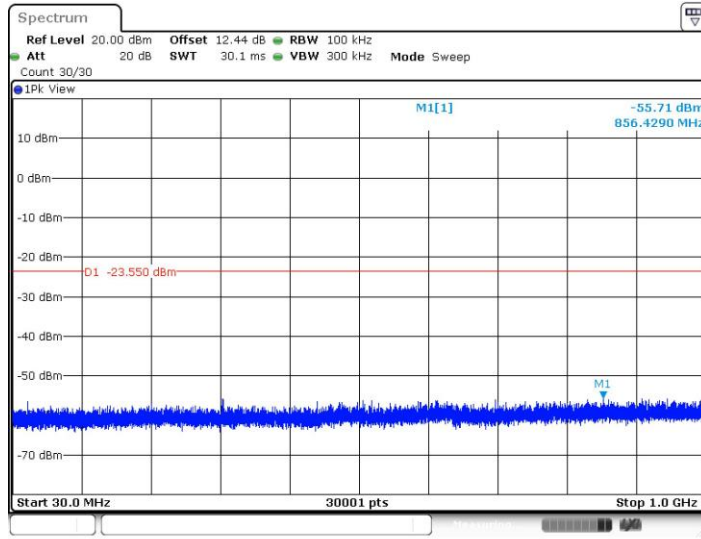


BLE\_2M\_Ant1\_2440\_1000~26500



Date: 16.FEB.2022 08:15:15

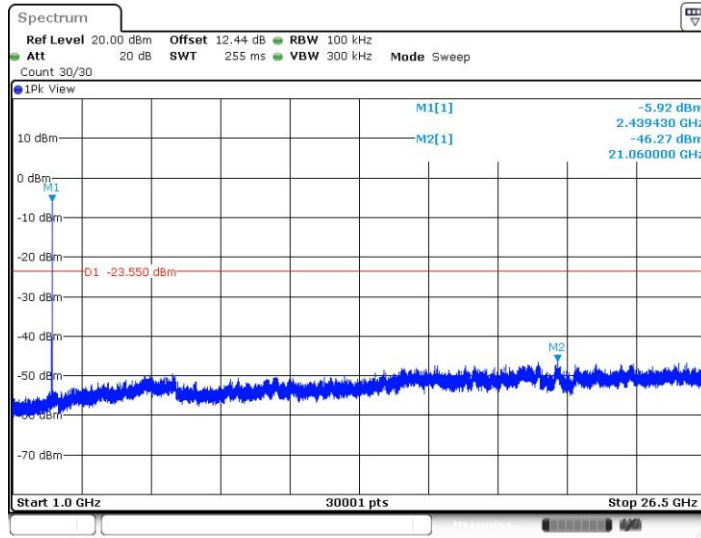
BLE\_2M\_Ant2\_2440\_30~1000



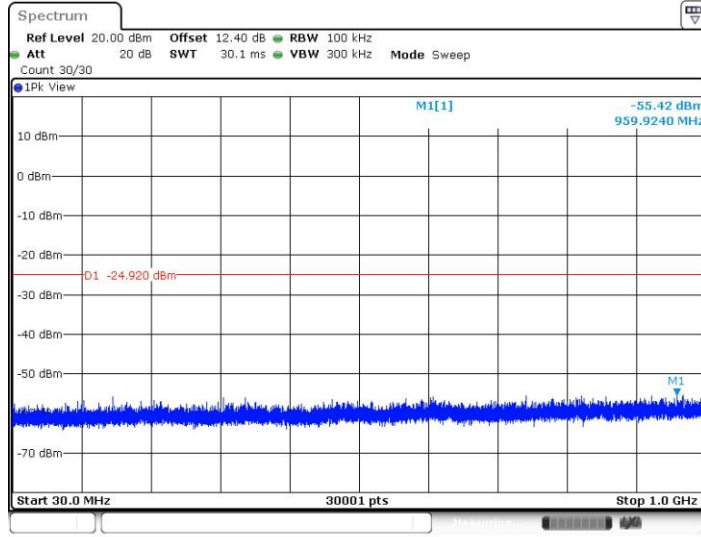
Date: 16.FEB.2022 08:29:12



BLE\_2M\_Ant2\_2440\_1000~26500

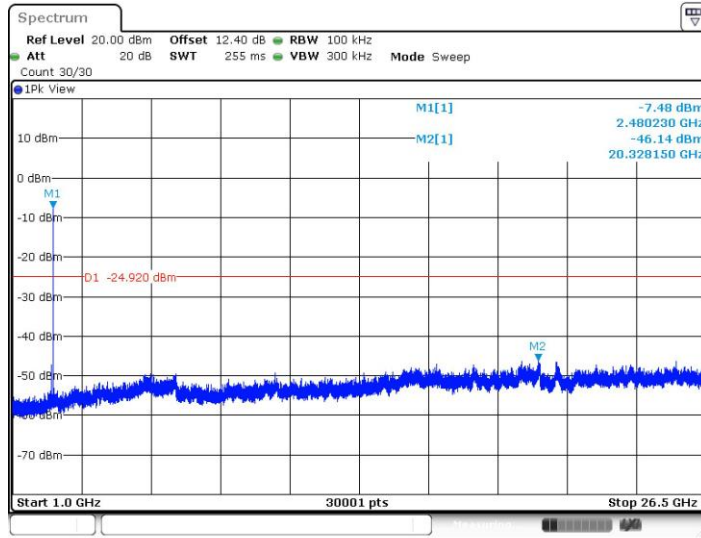


BLE\_2M\_Ant1\_2480\_30~1000

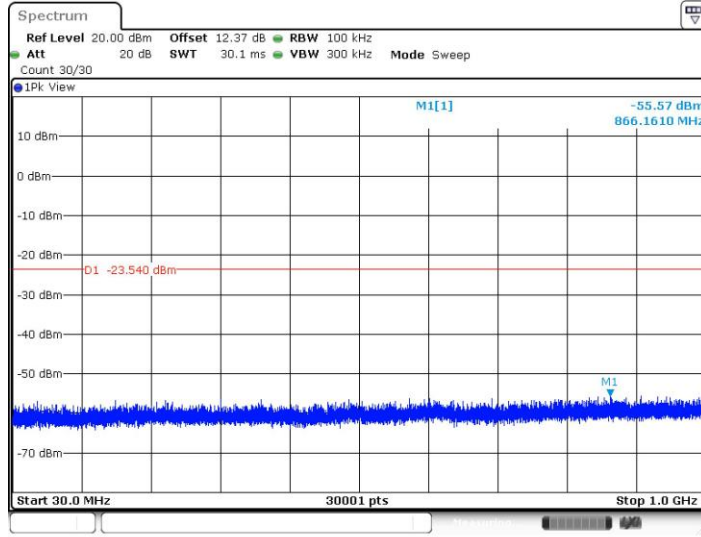




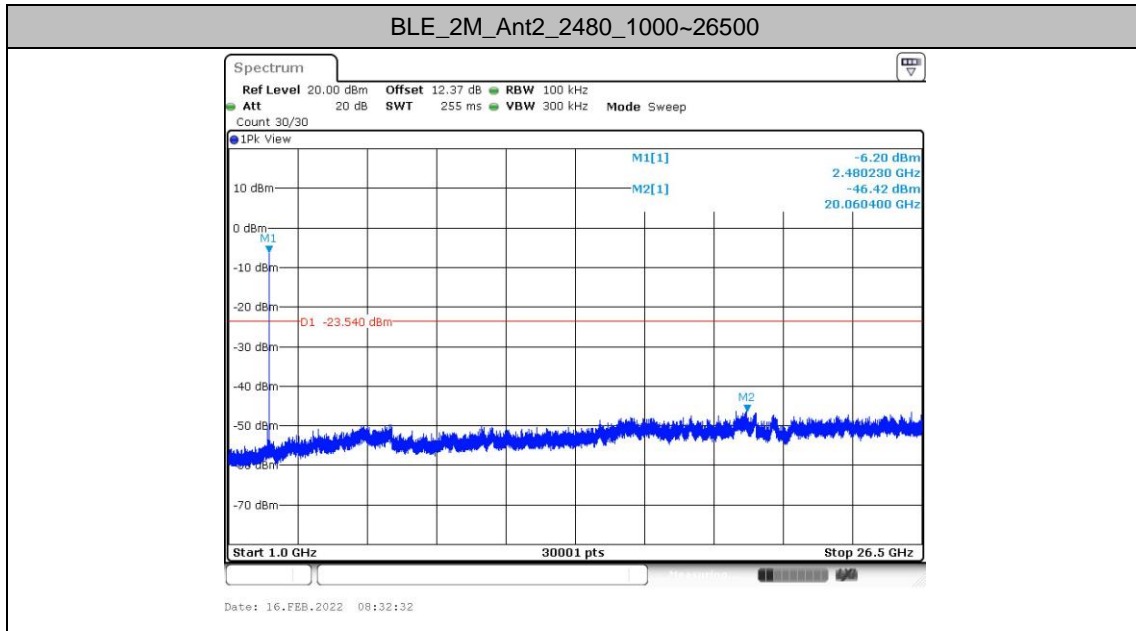
BLE\_2M\_Ant1\_2480\_1000~26500



BLE\_2M\_Ant2\_2480\_30~1000





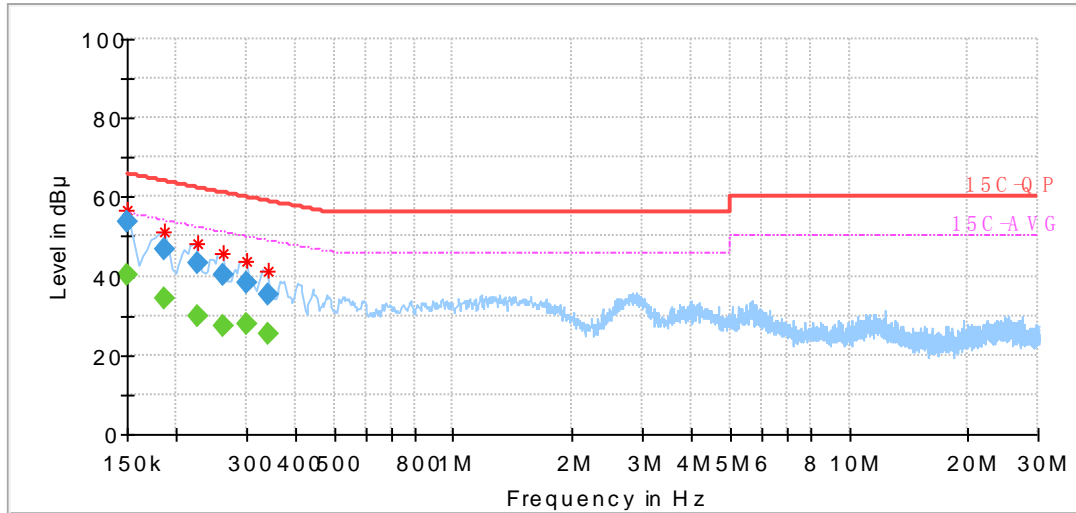




## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum



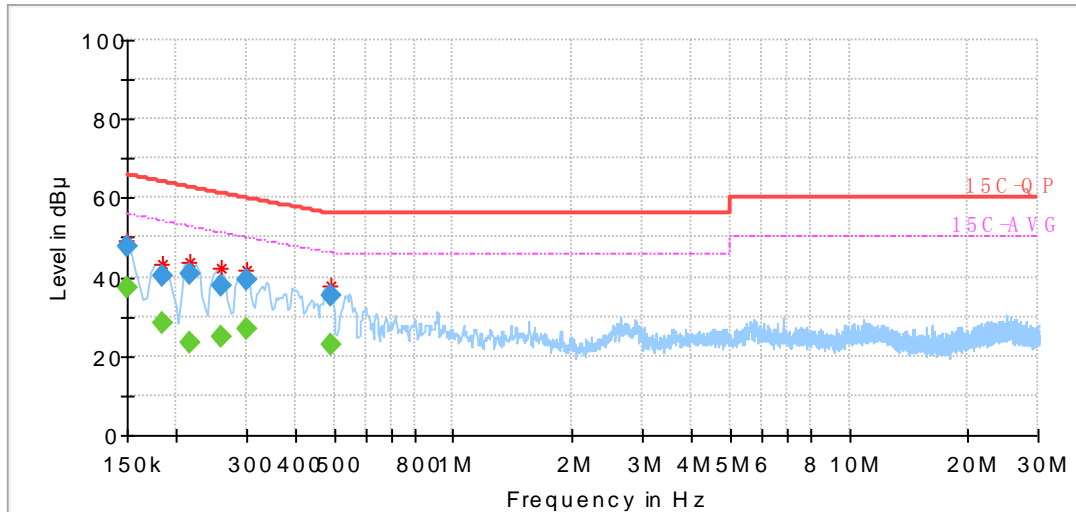
### Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	40.40	56.00	15.60	L1	OFF	20.1
0.150000	53.71	---	66.00	12.29	L1	OFF	20.1
0.187312	---	34.20	54.00	19.80	L1	OFF	20.0
0.187312	46.73	---	64.03	17.30	L1	OFF	20.0
0.225394	---	29.91	52.40	22.49	L1	OFF	19.9
0.225394	43.08	---	62.43	19.35	L1	OFF	19.9
0.262706	---	27.60	51.10	23.51	L1	OFF	19.9
0.262706	40.05	---	61.14	21.09	L1	OFF	19.9
0.300788	---	28.06	49.98	21.92	L1	OFF	19.9
0.300788	38.35	---	60.02	21.67	L1	OFF	19.9
0.338812	---	25.18	49.02	23.84	L1	OFF	19.9
0.338812	35.18	---	59.05	23.87	L1	OFF	19.9



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
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 (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	37.41	56.00	18.59	N	OFF	20.2
0.150000	48.01	---	66.00	17.99	N	OFF	20.2
0.184350	---	28.39	54.15	25.75	N	OFF	20.2
0.184350	40.11	---	64.17	24.06	N	OFF	20.2
0.215681	---	23.59	52.77	29.19	N	OFF	20.2
0.215681	40.75	---	62.81	22.06	N	OFF	20.2
0.258975	---	24.70	51.22	26.52	N	OFF	20.1
0.258975	37.76	---	61.26	23.50	N	OFF	20.1
0.301500	---	26.78	49.96	23.18	N	OFF	20.0
0.301500	39.52	---	60.00	20.48	N	OFF	20.0
0.489544	---	23.05	46.16	23.10	N	OFF	19.9
0.489544	35.22	---	56.16	20.94	N	OFF	19.9



### Appendix C. Radiated Spurious Emission

Test Engineer :	Henry Li	Temperature :	22~23°C
		Relative Humidity :	41~42%

#### 2.4GHz 2400~2483.5MHz

#### BLE (ANT 1) -1Mbps (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
BLE CH 00 2402MHz		2388	53.63	-20.37	74	48.41	30.94	7.16	32.88	114	121	P	H
		2389.82	43.35	-10.65	54	38.09	30.94	7.16	32.84	114	121	A	H
	*	2402	92.79	-	-	87.47	31	7.16	32.84	114	121	P	H
	*	2402	92.03	-	-	86.71	31	7.16	32.84	114	121	A	H
		2344.45	53.89	-20.11	74	48.97	30.77	7.07	32.92	381	77	P	V
		2385.14	43.17	-10.83	54	37.98	30.94	7.13	32.88	381	77	A	V
	*	2402	89.91	-	-	84.59	31	7.16	32.84	381	77	P	V
	*	2402	89.11	-	-	83.79	31	7.16	32.84	381	77	A	V
BLE CH 19 2440MHz		2311.3	54.17	-19.83	74	49.51	30.65	7.01	33	135	125	P	H
		2385.92	43.3	-10.7	54	38.08	30.94	7.16	32.88	135	125	A	H
	*	2440	91.49	-	-	85.96	31.07	7.23	32.77	135	125	P	H
	*	2440	90.54	-	-	85.01	31.07	7.23	32.77	135	125	A	H
		2489.8	54.29	-19.71	74	48.46	31.17	7.3	32.64	135	125	P	H
		2492.08	43.77	-10.23	54	37.87	31.17	7.3	32.57	135	125	A	H
		2361.61	54.08	-19.92	74	49.07	30.83	7.1	32.92	295	64	P	V
		2379.94	43.27	-10.73	54	38.14	30.88	7.13	32.88	295	64	A	V
	*	2440	90.95	-	-	85.42	31.07	7.23	32.77	295	64	P	V
	*	2440	90.2	-	-	84.67	31.07	7.23	32.77	295	64	A	V
		2498.08	54.67	-19.33	74	48.77	31.17	7.3	32.57	295	64	P	V
		2490.88	43.87	-10.13	54	38.04	31.17	7.3	32.64	295	64	A	V



BLE CH 39 2480MHz	*	2480	92.21	-	-	86.45	31.13	7.27	32.64	217	109	P	H
	*	2480	91.38	-	-	85.62	31.13	7.27	32.64	217	109	A	H
		2487.34	55.16	-18.84	74	49.36	31.17	7.27	32.64	217	109	P	H
		2483.5	43.88	-10.12	54	38.12	31.13	7.27	32.64	217	109	A	H
	*	2480	90.77	-	-	85.01	31.13	7.27	32.64	320	73	P	V
	*	2480	89.96	-	-	84.2	31.13	7.27	32.64	320	73	A	V
		2487.16	54.24	-19.76	74	48.44	31.17	7.27	32.64	320	73	P	V
		2483.62	43.88	-10.12	54	38.12	31.13	7.27	32.64	320	73	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

BLE	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
BLE CH 00 2402MHz		4800	41.79	-32.21	74	57.08	34.51	10.24	60.04	300	0	P	H
		4800	42.11	-31.89	74	57.4	34.51	10.24	60.04	100	0	P	V
BLE CH 19 2440MHz		4875	42.06	-31.94	74	57.11	34.66	10.32	60.03	300	0	P	H
		7320	43.79	-30.21	74	54.98	36.56	12.77	60.52	300	0	P	H
		4875	41.09	-32.91	74	56.14	34.66	10.32	60.03	100	0	P	V
		7320	44.24	-29.76	74	55.43	36.56	12.77	60.52	100	0	P	V
BLE CH 39 2480MHz		4965	42.02	-31.98	74	56.79	34.81	10.43	60.01	300	0	P	H
		7440	43.79	-30.21	74	54.86	36.59	12.88	60.54	300	0	P	H
		4965	42.25	-31.75	74	57.02	34.81	10.43	60.01	100	0	P	V
		7440	44.93	-29.07	74	56	36.59	12.88	60.54	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

BLE (ANT 2) -1Mbps (Band Edge @ 3m)

BLE	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 )
BLE CH 00 2402MHz		2381.24	54.13	-19.87	74	49	30.88	7.13	32.88	103	120	P	H
		2389.69	43.38	-10.62	54	38.16	30.94	7.16	32.88	103	120	A	H
	*	2402	93.43	-	-	88.11	31	7.16	32.84	103	120	P	H
	*	2402	92.72	-	-	87.4	31	7.16	32.84	103	120	A	H
		2382.02	53.82	-20.18	74	48.69	30.88	7.13	32.88	392	53	P	V
		2386.57	43.41	-10.59	54	38.19	30.94	7.16	32.88	392	53	A	V
	*	2402	92.48	-	-	87.16	31	7.16	32.84	392	53	P	V
	*	2402	91.74	-	-	86.42	31	7.16	32.84	392	53	A	V
BLE CH 19 2440MHz		2364.21	53.99	-20.01	74	48.98	30.83	7.1	32.92	105	129	P	H
		2387.35	43.38	-10.62	54	38.16	30.94	7.16	32.88	105	129	A	H
	*	2440	94.22	-	-	88.69	31.07	7.23	32.77	105	129	P	H
	*	2440	93.47	-	-	87.94	31.07	7.23	32.77	105	129	A	H
		2497.42	54.65	-19.35	74	48.75	31.17	7.3	32.57	105	129	P	H
		2492.68	43.91	-10.09	54	38.01	31.17	7.3	32.57	105	129	A	H
		2367.59	53.91	-20.09	74	48.81	30.88	7.1	32.88	381	35	P	V
		2387.74	43.34	-10.66	54	38.12	30.94	7.16	32.88	381	35	A	V
	*	2440	90.93	-	-	85.4	31.07	7.23	32.77	381	35	P	V
	*	2440	90.14	-	-	84.61	31.07	7.23	32.77	381	35	A	V
		2484.64	54.68	-19.32	74	48.92	31.13	7.27	32.64	381	35	P	V
		2494.6	43.95	-10.05	54	38.05	31.17	7.3	32.57	381	35	A	V



BLE CH 39 2480MHz	*	2480	93.44	-	-	87.68	31.13	7.27	32.64	106	115	P	H
	*	2480	92.65	-	-	86.89	31.13	7.27	32.64	106	115	A	H
		2490.28	54.41	-19.59	74	48.58	31.17	7.3	32.64	106	115	P	H
		2483.5	44.08	-9.92	54	38.32	31.13	7.27	32.64	106	115	A	H
	*	2480	91.93	-	-	86.17	31.13	7.27	32.64	400	39	P	V
	*	2480	91	-	-	85.24	31.13	7.27	32.64	400	39	A	V
		2491.72	54.11	-19.89	74	48.28	31.17	7.3	32.64	400	39	P	V
		2499.46	44.09	-9.91	54	38.19	31.17	7.3	32.57	400	39	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**2.4GHz 2400~2483.5MHz  
BLE (ANT 2) ---1Mbps (Harmonic @ 3m)**

BLE	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
BLE CH 00 2402MHz		4800	40.9	-33.1	74	56.19	34.51	10.24	60.04	300	0	P	H
		4800	41.38	-32.62	74	56.67	34.51	10.24	60.04	100	0	P	V
BLE CH 19 2440MHz		4875	41.63	-32.37	74	56.68	34.66	10.32	60.03	300	0	P	H
		7320	44.03	-29.97	74	55.22	36.56	12.77	60.52	300	0	P	H
		4875	41.84	-32.16	74	56.89	34.66	10.32	60.03	100	0	P	V
		7320	44.04	-29.96	74	55.23	36.56	12.77	60.52	100	0	P	V
BLE CH 39 2480MHz		4965	42.33	-31.67	74	57.1	34.81	10.43	60.01	300	0	P	H
		7440	43.18	-30.82	74	54.25	36.59	12.88	60.54	300	0	P	H
		4965	42.7	-31.3	74	57.47	34.81	10.43	60.01	100	0	P	V
		7440	44.58	-29.42	74	55.65	36.59	12.88	60.54	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

BLE (ANT 1) -2Mbps (Band Edge @ 3m)

BLE	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 )
BLE CH 00 2402MHz		2377.73	54.51	-19.49	74	49.38	30.88	7.13	32.88	234	304	P	H
		2387.48	43.64	-10.36	54	38.42	30.94	7.16	32.88	234	304	A	H
	*	2402	92.05	-	-	86.73	31	7.16	32.84	234	304	P	H
	*	2402	90.36	-	-	85.04	31	7.16	32.84	234	304	A	H
		2334.57	53.89	-20.11	74	49.01	30.77	7.07	32.96	292	243	P	V
		2382.41	43.58	-10.42	54	38.45	30.88	7.13	32.88	292	243	A	V
	*	2402	91.31	-	-	85.99	31	7.16	32.84	292	243	P	V
	*	2402	89.71	-	-	84.39	31	7.16	32.84	292	243	A	V
BLE CH 19 2440MHz		2364.21	53.83	-20.17	74	48.82	30.83	7.1	32.92	232	305	P	H
		2382.67	43.79	-10.21	54	38.66	30.88	7.13	32.88	232	305	A	H
	*	2440	91.76	-	-	86.23	31.07	7.23	32.77	232	305	P	H
	*	2440	90.13	-	-	84.6	31.07	7.23	32.77	232	305	A	H
		2489.44	55.08	-18.92	74	49.25	31.17	7.3	32.64	232	305	P	H
		2498.74	44.22	-9.78	54	38.32	31.17	7.3	32.57	232	305	A	H
		2340.55	53.98	-20.02	74	49.06	30.77	7.07	32.92	366	251	P	V
		2389.04	43.57	-10.43	54	38.35	30.94	7.16	32.88	366	251	A	V
	*	2440	91.89	-	-	86.36	31.07	7.23	32.77	366	251	P	V
	*	2440	90.26	-	-	84.73	31.07	7.23	32.77	366	251	A	V
		2497.18	54.63	-19.37	74	48.73	31.17	7.3	32.57	366	251	P	V
		2495.32	44.16	-9.84	54	38.26	31.17	7.3	32.57	366	251	A	V





BLE CH 39 2480MHz	*	2480	91.51	-	-	85.75	31.13	7.27	32.64	170	296	P	H
	*	2480	89.8	-	-	84.04	31.13	7.27	32.64	170	296	A	H
		2497.9	54.7	-19.3	74	48.8	31.17	7.3	32.57	170	296	P	H
		2483.5	44.79	-9.21	54	39.03	31.13	7.27	32.64	170	296	A	H
	*	2480	91.64	-	-	85.88	31.13	7.27	32.64	313	248	P	V
	*	2480	89.93	-	-	84.17	31.13	7.27	32.64	313	248	A	V
		2484.7	54.28	-19.72	74	48.52	31.13	7.27	32.64	313	248	P	V
		2483.5	44.89	-9.11	54	39.13	31.13	7.27	32.64	313	248	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**2.4GHz 2400~2483.5MHz  
BLE ( ANT 1 ) -2Mbps (Harmonic @ 3m)**

BLE	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
BLE CH 00 2402MHz		4800	41.23	-32.77	74	56.52	34.51	10.24	60.04	300	0	P	H
		4800	41.04	-32.96	74	56.33	34.51	10.24	60.04	100	0	P	V
BLE CH 19 2440MHz		4875	41.49	-32.51	74	56.54	34.66	10.32	60.03	300	0	P	H
		7320	43.17	-30.83	74	54.36	36.56	12.77	60.52	300	0	P	H
		4875	41.97	-32.03	74	57.02	34.66	10.32	60.03	100	0	P	V
		7320	44.42	-29.58	74	55.61	36.56	12.77	60.52	100	0	P	V
BLE CH 39 2480MHz		4965	42.57	-31.43	74	57.34	34.81	10.43	60.01	300	0	P	H
		7440	43.25	-30.75	74	54.32	36.59	12.88	60.54	300	0	P	H
		4965	42.83	-31.17	74	57.6	34.81	10.43	60.01	100	0	P	V
		7440	44.11	-29.89	74	55.18	36.59	12.88	60.54	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

BLE (ANT 2) -2Mbps (Band Edge @ 3m)

BLE	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 )
BLE CH 00 2402MHz		2376.43	53.95	-20.05	74	48.82	30.88	7.13	32.88	105	128	P	H
		2386.83	43.61	-10.39	54	38.39	30.94	7.16	32.88	105	128	A	H
	*	2402	93.84	-	-	88.52	31	7.16	32.84	105	128	P	H
	*	2402	92.14	-	-	86.82	31	7.16	32.84	105	128	A	H
		2365.38	54.33	-19.67	74	49.28	30.83	7.1	32.88	391	55	P	V
		2387.09	43.57	-10.43	54	38.35	30.94	7.16	32.88	391	55	A	V
	*	2402	92.51	-	-	87.19	31	7.16	32.84	391	55	P	V
	*	2402	90.8	-	-	85.48	31	7.16	32.84	391	55	A	V
BLE CH 19 2440MHz		2338.34	54.4	-19.6	74	49.52	30.77	7.07	32.96	149	119	P	H
		2385.14	43.75	-10.25	54	38.56	30.94	7.13	32.88	149	119	A	H
	*	2440	94.48	-	-	88.95	31.07	7.23	32.77	149	119	P	H
	*	2440	92.83	-	-	87.3	31.07	7.23	32.77	149	119	A	H
		2490.58	54.94	-19.06	74	49.11	31.17	7.3	32.64	149	119	P	H
		2486.08	44.14	-9.86	54	38.34	31.17	7.27	32.64	149	119	A	H
		2365.51	54.55	-19.45	74	49.5	30.83	7.1	32.88	378	27	P	V
		2389.56	43.77	-10.23	54	38.55	30.94	7.16	32.88	378	27	A	V
	*	2440	91.04	-	-	85.51	31.07	7.23	32.77	378	27	P	V
	*	2440	89.28	-	-	83.75	31.07	7.23	32.77	378	27	A	V
		2487.34	55.04	-18.96	74	49.24	31.17	7.27	32.64	378	27	P	V
		2487.22	44.23	-9.77	54	38.43	31.17	7.27	32.64	378	27	A	V



BLE CH 39 2480MHz	*	2480	93.33	-	-	87.57	31.13	7.27	32.64	109	116	P	H
	*	2480	91.68	-	-	85.92	31.13	7.27	32.64	109	116	A	H
		2488.24	54.18	-19.82	74	48.35	31.17	7.3	32.64	109	116	P	H
		2483.5	45.39	-8.61	54	39.63	31.13	7.27	32.64	109	116	A	H
	*	2480	92.35	-	-	86.59	31.13	7.27	32.64	400	42	P	V
	*	2480	90.69	-	-	84.93	31.13	7.27	32.64	400	42	A	V
		2483.92	55.26	-18.74	74	49.5	31.13	7.27	32.64	400	42	P	V
		2483.5	45.26	-8.74	54	39.5	31.13	7.27	32.64	400	42	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

BLE	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
BLE CH 00 2402MHz		4800	41.44	-32.56	74	56.73	34.51	10.24	60.04	300	0	P	H
		4800	41.37	-32.63	74	56.66	34.51	10.24	60.04	100	0	P	V
BLE CH 19 2440MHz		4875	42.08	-31.92	74	57.13	34.66	10.32	60.03	300	0	P	H
		7320	44.04	-29.96	74	55.23	36.56	12.77	60.52	300	0	P	H
		4875	41.53	-32.47	74	56.58	34.66	10.32	60.03	100	0	P	V
		7320	45.13	-28.87	74	56.32	36.56	12.77	60.52	100	0	P	V
BLE CH 39 2480MHz		4965	42.29	-31.71	74	57.06	34.81	10.43	60.01	300	0	P	H
		7440	44.2	-29.8	74	55.27	36.59	12.88	60.54	300	0	P	H
		4965	42.68	-31.32	74	57.45	34.81	10.43	60.01	100	0	P	V
		7440	43.99	-30.01	74	55.06	36.59	12.88	60.54	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 BLE (ANT 2) -2Mbps (LF)

BLE	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 )
2.4GHz BLE LF		30	22.55	-17.45	40	28.05	25.15	0.58	31.23	-	-	P	H
		106.63	28	-15.5	43.5	40.82	17.29	1.68	31.79	-	-	P	H
		194.9	34.6	-8.9	43.5	48.11	15.56	2.27	31.34	-	-	P	H
		337.49	28.74	-17.26	46	37.31	20.1	2.98	31.65	-	-	P	H
		562.53	27.99	-18.01	46	30.52	25.16	3.86	31.55	-	-	P	H
		749.74	29.96	-16.04	46	30.93	25.69	4.45	31.11	-	-	P	H
		39.7	30.37	-9.63	40	41.4	19.9	0.72	31.65	-	-	P	V
		94.02	33.39	-10.11	43.5	46.94	16.84	1.54	31.93	-	-	P	V
		129.91	33.69	-9.81	43.5	45.65	17.74	1.84	31.54	-	-	P	V
		194.9	28.86	-14.64	43.5	41.51	16.42	2.27	31.34	-	-	P	V
		353.01	29.3	-16.7	46	36.41	21.48	3.04	31.63	-	-	P	V
		564.47	30.25	-15.75	46	32.15	25.78	3.86	31.54	-	-	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:

BLE	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 )
BLE 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  
BLE (ANT 1) -1Mbps (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
1	Horizontal	Fundamental
<b>Peak</b>	<p>Site : 030906-K3 Condition : FCC PART 15C 3m 3117.5W 00218642 HORIZONTAL Project : RSR 1000.000000 YSR 3000.000000 SRT Auto Mode : (FR)102106-01 ME1 : #12 EIF-BASE1 Plane : # Full-directivity : Over Limit : ReadAntenna : Cable Preamp : A/Pos : T/Pos : Remark : Pol/Phas : 1 2388.00 53.63 -20.37 74.00 48.41 30.94 7.16 32.88 114 121 Peak HORIZONTAL</p>	<p>Site : 030906-K3 Condition : FCC PART 15C 3m 3117.5W 00218642 HORIZONTAL Project : RSR 1000.000000 YSR 3000.000000 SRT Auto Mode : (FR)102106-01 ME1 : #12 EIF-BASE1 Plane : # Full-directivity : Over Limit : ReadAntenna : Cable Preamp : A/Pos : T/Pos : Remark : Pol/Phas : 1 2402.00 92.79 18.79 74.00 87.47 31.00 7.16 32.84 114 121 Peak HORIZONTAL</p>
<b>Avg.</b>	<p>Site : 030906-K3 Condition : FCC PART 15C (AVG) 3m 3117.5W 00218642 HORIZONTAL Project : RSR 1000.000000 YSR 0.010000 SRT Auto Mode : (FR)102106-01 ME1 : #12 EIF-BASE1 Plane : # Full-directivity : Over Limit : ReadAntenna : Cable Preamp : A/Pos : T/Pos : Remark : Pol/Phas : 1 2389.82 43.35 -10.65 54.00 38.09 30.94 7.16 32.84 114 121 Average HORIZONTAL</p>	<p>Site : 030906-K3 Condition : FCC PART 15C (AVG) 3m 3117.5W 00218642 HORIZONTAL Project : RSR 1000.000000 YSR 0.010000 SRT Auto Mode : (FR)102106-01 ME1 : #12 EIF-BASE1 Plane : # Full-directivity : Over Limit : ReadAntenna : Cable Preamp : A/Pos : T/Pos : Remark : Pol/Phas : 1 2402.00 92.03 38.03 54.00 86.71 31.00 7.16 32.84 114 121 Average HORIZONTAL</p>



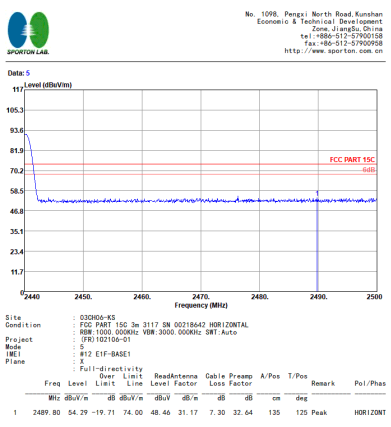
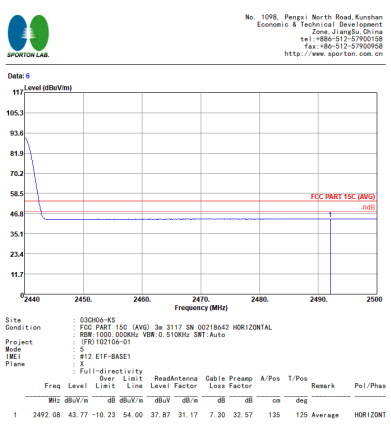
BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
1	Vertical	Fundamental
<p><b>Peak</b></p>	<p>No. 1098, Pengzi North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p> <p>Site : 032004-KS Condition : FCC PART 15C 3m 3117 SN 00218442 VERTICAL Project : RSM 1000.000MHz VSW:3000.000MHz SMT Auto Mode : (FR) 102106-01 MEI : #12 EIF-BASE1 Plane : Z Full-directivity Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor dB dBm dBm dBm dBm dBm dBm cm deg 1 2344.45 53.89 -20.11 74.00 48.97 30.77 7.07 32.92 381 77 Peak VERTICAL</p>	<p>No. 1098, Pengzi 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 : 032004-KS Condition : FCC PART 15C 3m 3117 SN 00218442 VERTICAL Project : RSM 1000.000MHz VSW:3000.000MHz SMT Auto Mode : (FR) 102106-01 MEI : #12 EIF-BASE1 Plane : Z Full-directivity Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor dB dBm dBm dBm dBm dBm dBm cm deg 1 * 2402.00 89.91 15.91 74.00 84.59 31.00 7.16 32.84 381 77 Peak VERTICAL</p>
<p><b>Avg</b></p>	<p>No. 1098, Pengzi 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 : 032004-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 00218442 VERTICAL Project : RSM 1000.000MHz VSW:3000.000MHz SMT Auto Mode : (FR) 102106-01 MEI : #12 EIF-BASE1 Plane : Z Full-directivity Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor dB dBm dBm dBm dBm dBm dBm cm deg 1 2385.14 43.17 -10.83 54.00 37.98 30.94 7.13 32.88 381 77 Average VERTICAL</p>	<p>No. 1098, Pengzi 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 : 032004-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 00218442 VERTICAL Project : RSM 1000.000MHz VSW:3000.000MHz SMT Auto Mode : (FR) 102106-01 MEI : #12 EIF-BASE1 Plane : Z Full-directivity Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor dB dBm dBm dBm dBm dBm dBm cm deg 1 * 2402.00 89.11 35.11 54.00 83.79 31.00 7.16 32.84 381 77 Average VERTICAL</p>



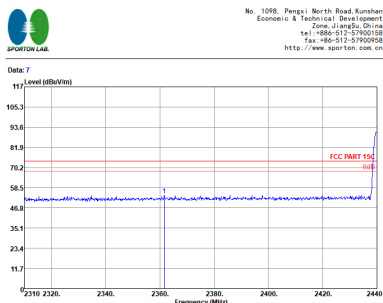
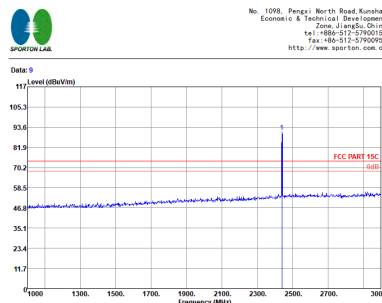
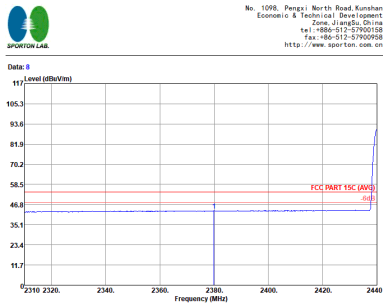
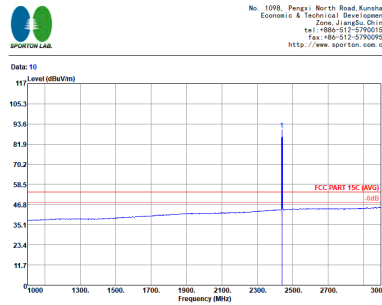


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																					
ANT	BLE CH19 2440MHz - L																																																																					
1	Horizontal	Fundamental																																																																				
Peak	<p>Site : 030105-KS Condition : FCC PART 15C 3e 3117 SN 00218642 HORIZONTAL Project : RRM-1000.000MHz VSW-3000.000MHz SWT:Auto Model : FR102106-01 Mode : C ME1 : #12 EIF-BASE1 Plane : X Full-directivity</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>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB/m</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>2311.30</td> <td>54.17</td> <td>-19.83</td> <td>74.00</td> <td>49.51</td> <td>30.65</td> <td>7.01</td> <td>33.00</td> <td>135</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	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg			1	2311.30	54.17	-19.83	74.00	49.51	30.65	7.01	33.00	135	125 Peak	HORIZONTAL	<p>Site : 030105-KS Condition : FCC PART 15C 3e 3117 SN 00218642 HORIZONTAL Project : RRM-1000.000MHz VSW-3000.000MHz SWT:Auto Model : FR102106-01 Mode : C ME1 : #12 EIF-BASE1 Plane : X Full-directivity</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>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB/m</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>2440.00</td> <td>91.49</td> <td>17.49</td> <td>74.00</td> <td>85.94</td> <td>31.07</td> <td>7.23</td> <td>32.77</td> <td>135</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	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg			1	2440.00	91.49	17.49	74.00	85.94	31.07	7.23	32.77	135	125 Peak	HORIZONTAL
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																												
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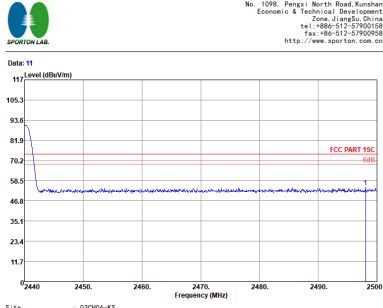
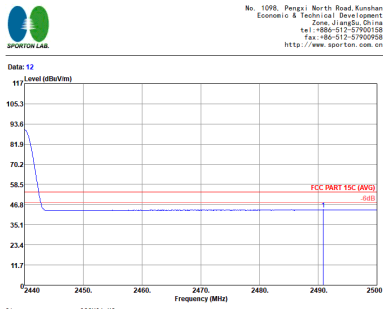


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2.4GHz 2400~2483.5MHz

BLE (ANT 1) -1Mbps (Harmonic @ 3m)

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ANT	BLE CH39 2480MHZ																																																																																											
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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.



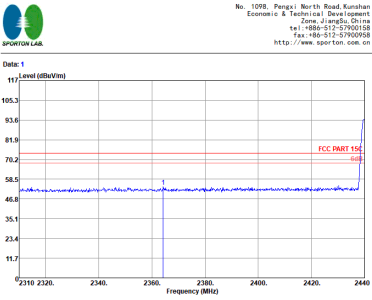
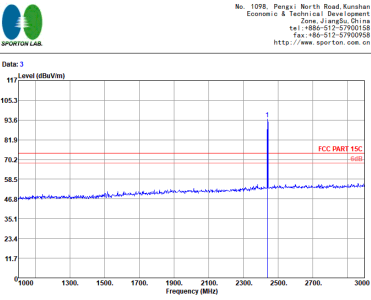
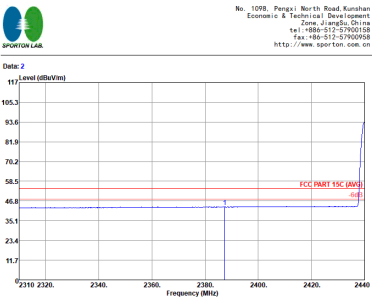
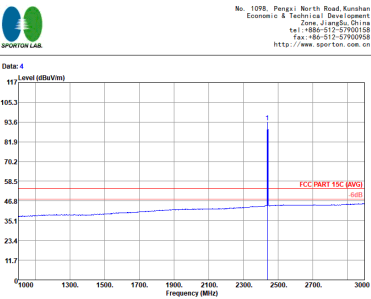
2.4GHz 2400~2483.5MHz  
BLE (ANT 2) -1Mbps (Band Edge @ 3m)

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Peak	<p>Site : 030906-K3 Condition : FCC PART 15C 3m 3117.5M 00218642 HORIZONTAL Project : RSM 1000.000000 YBR 3000.000000 SRT Auto Mode : (FR)102106-01 ME1 : #12 EIF-BASE1 Plane : X Full-directivity : X Over Limit : ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor</p> <table border="1"> <thead> <tr> <th>1</th> <th>2381.24</th> <th>54.13</th> <th>-19.87</th> <th>74.00</th> <th>49.00</th> <th>30.88</th> <th>7.13</th> <th>32.88</th> <th>103</th> <th>120</th> <th>Peak</th> <th>HORIZONTAL</th> </tr> </thead> </table>	1	2381.24	54.13	-19.87	74.00	49.00	30.88	7.13	32.88	103	120	Peak	HORIZONTAL	<p>Site : 030906-K3 Condition : FCC PART 15C 3m 3117.5M 00218642 HORIZONTAL Project : RSM 1000.000000 YBR 3000.000000 SRT Auto Mode : (FR)102106-01 ME1 : #12 EIF-BASE1 Plane : X Full-directivity : X Over Limit : ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor</p> <table border="1"> <thead> <tr> <th>1</th> <th>2402.00</th> <th>93.43</th> <th>19.43</th> <th>74.00</th> <th>88.11</th> <th>31.00</th> <th>7.16</th> <th>32.84</th> <th>103</th> <th>120</th> <th>Peak</th> <th>HORIZONTAL</th> </tr> </thead> </table>	1	2402.00	93.43	19.43	74.00	88.11	31.00	7.16	32.84	103	120	Peak	HORIZONTAL
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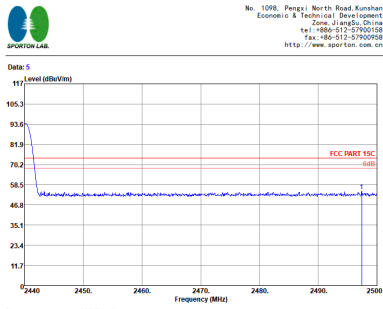
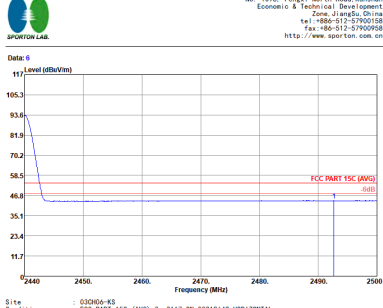


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Peak	<p>No. 1098, Pengzi North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu China          tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p> <p>Site : 032004-KS          Condition : FCC PART 15C 3m 3117 SN 00218442 VERTICAL          RSM: 1000.000kHz VBW: 3000.000kHz SMT: Auto          Project : (FR)102106-01          Mode : 13          MEI : #12 EIF-BASE1          Plane : Z          Full-directivity Over Limit ReadAntenna Cable Preamp A/Pos T/Pos          Freq Level Limit Line Level Factor Loss Factor cm deg</p> <table border="1"> <thead> <tr> <th>1</th> <th>2382.02</th> <th>53.82</th> <th>-20.18</th> <th>74.00</th> <th>48.69</th> <th>30.88</th> <th>7.13</th> <th>32.88</th> <th>392</th> <th>53</th> <th>Peak</th> <th>VERTICAL</th> </tr> </thead> </table>	1	2382.02	53.82	-20.18	74.00	48.69	30.88	7.13	32.88	392	53	Peak	VERTICAL	<p>No. 1098, Pengzi 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 : 032004-KS          Condition : FCC PART 15C 3m 3117 SN 00218442 VERTICAL          RSM: 1000.000kHz VBW: 3000.000kHz SMT: Auto          Project : (FR)102106-01          Mode : 13          MEI : #12 EIF-BASE1          Plane : Z          Full-directivity Over Limit ReadAntenna Cable Preamp A/Pos T/Pos          Freq Level Limit Line Level Factor Loss Factor cm deg</p> <table border="1"> <thead> <tr> <th>1</th> <th>2402.00</th> <th>92.48</th> <th>18.48</th> <th>74.00</th> <th>87.16</th> <th>31.00</th> <th>7.16</th> <th>32.84</th> <th>392</th> <th>53</th> <th>Peak</th> <th>VERTICAL</th> </tr> </thead> </table>	1	2402.00	92.48	18.48	74.00	87.16	31.00	7.16	32.84	392	53	Peak	VERTICAL
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BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHZ	
2	Vertical	Fundamental
<p><b>Peak</b></p>	<p>No. 1098, Pengzi 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 : 032004-KS Condition : FCC PART 15C 3m 3117 SN 00218442 VERTICAL RSM: 1000.000MHz VBW: 3000.000kHz SMT: Auto Project : (FR) 102106-01 Mode : IS MEI : #12 EIF-BASE1 Plane : Z Full-directivity Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor cm deg 1 2491.72 54.11 -19.89 74.00 48.28 31.17 7.30 32.64 400 39 Peak VERTICAL</p>	<p>No. 1098, Pengzi 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 : 032004-KS Condition : FCC PART 15C 3m 3117 SN 00218442 VERTICAL RSM: 1000.000MHz VBW: 3000.000kHz SMT: Auto Project : (FR) 102106-01 Mode : IS MEI : #12 EIF-BASE1 Plane : Z Full-directivity Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor cm deg 1 2480.00 91.93 17.93 74.00 86.17 31.13 7.27 32.64 400 39 Peak VERTICAL</p>
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2.4GHz 2400~2483.5MHz  
BLE (ANT 2) -1Mbps (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH00 2402MHz	
2	Horizontal	Vertical
Peak Avg.	<p>Site : 030906-KS Condition : FCC PART 15C 3m 3117 SW 00218642 HORIZONTAL Project : RSM 1000.000MHz YSR 3000.000MHz SRT Auto Mode : 13 Polar : FR102106-01 Plane : #12 E1F-BASE1 Full-directivity : X Over Limit : HeadAntenna : Cable Preamp : A/Pos : T/Pos : Remark : Pol/Phas : 1 4800.00 40.90 -33.10 74.00 56.19 34.51 10.24 60.04 300 0 Peak HORIZONTAL</p>	<p>Site : 030906-KS Condition : FCC PART 15C 3m 3117 SW 00218642 VERTICAL Project : RSM 1000.000MHz YSR 3000.000MHz SRT Auto Mode : 13 Polar : FR102106-01 Plane : #12 E1F-BASE1 Full-directivity : X Over Limit : HeadAntenna : Cable Preamp : A/Pos : T/Pos : Remark : Pol/Phas : 1 4800.00 41.38 -32.62 74.00 56.67 34.51 10.24 60.04 100 0 Peak VERTICAL</p>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																					
ANT	BLE CH19 2440MHz																																																																																					
2	Horizontal	Vertical																																																																																				
Peak Avg.	<p>Site : 03090A-K5          Condition : FCC PART 15C 3m 3117 SN 00218442 HORIZONTAL          Project : RRM 1000.000MHz YBR:3000.000MHz SRT:Auto          Mode : FR102106-01          MEI : 14          Plane : #12 EIF-BASE1          Full-directivity          Over Limit          ResultName          Cable Preamp          Loss Factor          A/Pos          T/Pos          Remark          Pol/Phas</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th>0 Peak</th> <th>100</th> <th>0 Peak</th> <th>HORIZONTAL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4875.00</td> <td>41.63</td> <td>-32.37</td> <td>74.00</td> <td>56.68</td> <td>34.66</td> <td>10.32</td> <td>60.03</td> <td>300</td> <td>0</td> <td>Peak</td> <td>0</td> <td>HORIZONTAL</td> </tr> <tr> <td>2</td> <td>7320.00</td> <td>44.63</td> <td>-29.97</td> <td>74.00</td> <td>55.22</td> <td>36.56</td> <td>12.77</td> <td>60.52</td> <td>300</td> <td>0</td> <td>Peak</td> <td>0</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Freq	Level	Limit	Line	Level Factor	Loss Factor	dB	dB	cm	deg	0 Peak	100	0 Peak	HORIZONTAL	1	4875.00	41.63	-32.37	74.00	56.68	34.66	10.32	60.03	300	0	Peak	0	HORIZONTAL	2	7320.00	44.63	-29.97	74.00	55.22	36.56	12.77	60.52	300	0	Peak	0	HORIZONTAL	<p>Site : 03090A-K5          Condition : FCC PART 15C 3m 3117 SN 00218442 VERTICAL          Project : RRM 1000.000MHz YBR:3000.000MHz SRT:Auto          Mode : FR102106-01          MEI : 14          Plane : #12 EIF-BASE1          Full-directivity          Over Limit          ResultName          Cable Preamp          Loss Factor          A/Pos          T/Pos          Remark          Pol/Phas</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th>0 Peak</th> <th>100</th> <th>0 Peak</th> <th>VERTICAL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4875.00</td> <td>41.84</td> <td>-32.16</td> <td>74.00</td> <td>56.89</td> <td>34.66</td> <td>10.32</td> <td>60.03</td> <td>100</td> <td>0</td> <td>Peak</td> <td>0</td> <td>VERTICAL</td> </tr> <tr> <td>2</td> <td>7320.00</td> <td>44.94</td> <td>-29.96</td> <td>74.00</td> <td>55.33</td> <td>36.56</td> <td>12.77</td> <td>60.52</td> <td>100</td> <td>0</td> <td>Peak</td> <td>0</td> <td>VERTICAL</td> </tr> </tbody> </table>	Freq	Level	Limit	Line	Level Factor	Loss Factor	dB	dB	cm	deg	0 Peak	100	0 Peak	VERTICAL	1	4875.00	41.84	-32.16	74.00	56.89	34.66	10.32	60.03	100	0	Peak	0	VERTICAL	2	7320.00	44.94	-29.96	74.00	55.33	36.56	12.77	60.52	100	0	Peak	0	VERTICAL
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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.



2.4GHz 2400~2483.5MHz  
BLE (ANT 1) -2Mbps (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m																											
ANT	BLE CH00 2402MHz																											
1	Horizontal	Fundamental																										
Peak	<p>Site : 030906-K3 Condition : FCC PART 15C 3m 3117.5M 00218642 HORIZONTAL Project : RSM 1000.000000 YBR 3000.000000 SRT Auto Mode : (FR)102106-01 ME1 : #12 EIF-BASE1 Plane : X Full-directivity : X Over Limit : ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor</p> <table border="1"> <thead> <tr> <th>1</th> <th>2377.73</th> <th>54.51</th> <th>-19.49</th> <th>74.00</th> <th>49.38</th> <th>30.88</th> <th>7.13</th> <th>32.88</th> <th>234</th> <th>304</th> <th>Peak</th> <th>HORIZONTAL</th> </tr> </thead> </table>	1	2377.73	54.51	-19.49	74.00	49.38	30.88	7.13	32.88	234	304	Peak	HORIZONTAL	<p>Site : 030906-K3 Condition : FCC PART 15C 3m 3117.5M 00218642 HORIZONTAL Project : RSM 1000.000000 YBR 3000.000000 SRT Auto Mode : (FR)102106-01 ME1 : #12 EIF-BASE1 Plane : X Full-directivity : X Over Limit : ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor</p> <table border="1"> <thead> <tr> <th>1</th> <th>2402.00</th> <th>92.05</th> <th>18.05</th> <th>74.00</th> <th>86.73</th> <th>31.00</th> <th>7.16</th> <th>32.84</th> <th>234</th> <th>304</th> <th>Peak</th> <th>HORIZONTAL</th> </tr> </thead> </table>	1	2402.00	92.05	18.05	74.00	86.73	31.00	7.16	32.84	234	304	Peak	HORIZONTAL
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1	2440.00	91.89	17.89	74.00	86.36	31.07	7.23	32.77	366	251	Peak	VERTICAL																																																		
Avg.	<p>No. 1098, Pengzi 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 : 032004-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 00218442 VERTICAL Project : RSM 1000.000MHz VSW:1.000MHz SMT Auto Mode : (FR)102106-01 MEI : #12 EIF-BASE1 Plane : Z</p> <table border="1"> <thead> <tr> <th>Full-directivity</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>Freq</th> <th>Level</th> <th>Limit</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2389.04</td> <td>43.57</td> <td>-10.43</td> <td>54.00</td> <td>38.35</td> <td>30.94</td> <td>7.16</td> <td>32.88</td> <td>366</td> <td>251</td> <td>Average</td> <td>VERTICAL</td> </tr> </tbody> </table>	Full-directivity	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Limit	Line	Level Factor	Loss Factor	dB	cm	deg	1	2389.04	43.57	-10.43	54.00	38.35	30.94	7.16	32.88	366	251	Average	VERTICAL	<p>No. 1098, Pengzi 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 : 032004-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 00218442 VERTICAL Project : RSM 1000.000MHz VSW:1.000MHz SMT Auto Mode : (FR)102106-01 MEI : #12 EIF-BASE1 Plane : Z</p> <table border="1"> <thead> <tr> <th>Full-directivity</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>Freq</th> <th>Level</th> <th>Limit</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2440.00</td> <td>90.26</td> <td>36.26</td> <td>54.00</td> <td>84.73</td> <td>31.07</td> <td>7.23</td> <td>32.77</td> <td>366</td> <td>251</td> <td>Average</td> <td>VERTICAL</td> </tr> </tbody> </table>	Full-directivity	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Limit	Line	Level Factor	Loss Factor	dB	cm	deg	1	2440.00	90.26	36.26	54.00	84.73	31.07	7.23	32.77	366	251	Average	VERTICAL
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BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
1	Vertical	Fundamental
Peak	<p>No. 1098, Pengzi 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 : 03090a-k3 Condition : FCC PART 15C 3m 3117 SN 00218442 VERTICAL RSM: 1000.000MHz YBR: 3000.000MHz SRT: Auto Project : (FR)102106-01 Model : E12 E1F-BASE1 Plane : E Full-directivity Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor cm deg 1 2492.18 54.63 -19.37 74.00 48.73 31.17 7.30 32.57 366 251 Peak VERTICAL</p>	Left blank
Avg.	<p>No. 1098, Pengzi 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 : 03090a-k3 Condition : FCC PART 15C (AVG) 3m 3117 SN 00218442 VERTICAL RSM: 1000.000MHz YBR: 1.000MHz SRT: Auto Project : (FR)102106-01 Model : E12 E1F-BASE1 Plane : E Full-directivity Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor cm deg 1 2495.32 44.16 -9.84 54.00 38.26 31.17 7.30 32.57 366 251 Average VERTICAL</p>	Left blank



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																	
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ANT	BLE CH39 2480MHZ	
1	Vertical	Fundamental
<p><b>Peak</b></p>	<p>No. 1098, Pengzi 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 : 032004-K3 Condition : FCC PART 15C 3m 3117 SN 00218442 VERTICAL Project : RSM 1000.000MHz VSW:3000.000MHz SMT Auto Mode : (FR) 102106-01 MEI : 9 Plane : #12 E1F-BASE1 Full-directivity Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor dB dBm dBm dBm dBm cm deg 1 2484.70 54.28 -19.72 74.00 48.52 31.13 7.27 32.64 313 248 Peak VERTICAL</p>	<p>No. 1098, Pengzi 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 : 032004-K3 Condition : FCC PART 15C 3m 3117 SN 00218442 VERTICAL Project : RSM 1000.000MHz VSW:3000.000MHz SMT Auto Mode : (FR) 102106-01 MEI : 9 Plane : #12 E1F-BASE1 Full-directivity Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor dB dBm dBm dBm dBm cm deg 1 * 2480.00 91.64 17.64 74.00 85.88 31.13 7.27 32.64 313 248 Peak VERTICAL</p>
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2.4GHz 2400~2483.5MHz  
BLE (ANT 1) -2Mbps(Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH00 2402MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 030906-KS Condition : FCC PART 15C 3m 3117 SW 00218642 HORIZONTAL Project : RSM 1000 0000KHz YSR 3000 0000KHz SRT Auto Model : FR102106-01 Mode : #12 EIF-BASE1 Plane : X Full-directivity : X Over Limit : HeadAntenna : Cable Preamp : A/Pos : T/Pos : Remark : Pol/Phas : 1 4800.00 41.23 -32.77 74.00 56.52 34.51 10.24 60.04 300 0 Peak HORIZONTAL</p>	<p>Site : 030906-KS Condition : FCC PART 15C 3m 3117 SW 00218642 VERTICAL Project : RSM 1000 0000KHz YSR 3000 0000KHz SRT Auto Model : FR102106-01 Mode : #12 EIF-BASE1 Plane : X Full-directivity : X Over Limit : HeadAntenna : Cable Preamp : A/Pos : T/Pos : Remark : Pol/Phas : 1 4800.00 41.04 -32.96 74.00 56.33 34.51 10.24 60.04 100 0 Peak VERTICAL</p>



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<p><b>Peak Avg.</b></p>	<p>Site : 030904-K5            Condition : FCC PART 15C 3m 3117 SN 00218442 HORIZONTAL            Project : RRM 1000 0000Hz YBR:3000 0000Hz SRT:Auto            Mode : FR102106-01            IMN1 : #12 E1F-BASE1            Plane : X            Full-directivity            Over Limit            ReadAttenu Cable Preamp A/Pos T/Pos            Loss Factor Loss Factor cm deg</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Poi/Phas</th> </tr> <tr> <th>MHz</th> <th>dBu/m</th> <th>dB</th> <th>dBu/m</th> <th>dBu/m</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4875.00</td> <td>41.49</td> <td>-32.51</td> <td>74.00</td> <td>54.54</td> <td>34.66</td> <td>10.32</td> <td>60.03</td> <td>300</td> <td>0 Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>2</td> <td>7320.00</td> <td>43.17</td> <td>-30.83</td> <td>74.00</td> <td>54.56</td> <td>36.56</td> <td>12.77</td> <td>60.52</td> <td>300</td> <td>0 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Freq	Level	Limit	Line	Level Factor	Loss Factor	A/Pos	T/Pos	Remark	Poi/Phas	MHz	dBu/m	dB	dBu/m	dBu/m	dB	cm	deg			1	4875.00	41.49	-32.51	74.00	54.54	34.66	10.32	60.03	300	0 Peak	HORIZONTAL	2	7320.00	43.17	-30.83	74.00	54.56	36.56	12.77	60.52	300	0 Peak	HORIZONTAL	<p>Site : 030904-K5            Condition : FCC PART 15C 3m 3117 SN 00218442 VERTICAL            Project : RRM 1000 0000Hz YBR:3000 0000Hz SRT:Auto            Mode : FR102106-01            IMN1 : #12 E1F-BASE1            Plane : X            Full-directivity            Over Limit            ReadAttenu Cable Preamp A/Pos T/Pos            Loss Factor Loss Factor cm deg</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Poi/Phas</th> </tr> <tr> <th>MHz</th> <th>dBu/m</th> <th>dB</th> <th>dBu/m</th> <th>dBu/m</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4875.00</td> <td>41.97</td> <td>-32.03</td> <td>74.00</td> <td>57.02</td> <td>34.66</td> <td>10.32</td> <td>60.03</td> <td>100</td> <td>0 Peak</td> <td>VERTICAL</td> </tr> <tr> <td>2</td> <td>7320.00</td> <td>44.42</td> <td>-29.58</td> <td>74.00</td> <td>55.41</td> <td>36.56</td> <td>12.77</td> <td>60.52</td> <td>100</td> <td>0 Peak</td> <td>VERTICAL</td> </tr> </tbody> </table>	Freq	Level	Limit	Line	Level Factor	Loss Factor	A/Pos	T/Pos	Remark	Poi/Phas	MHz	dBu/m	dB	dBu/m	dBu/m	dB	cm	deg			1	4875.00	41.97	-32.03	74.00	57.02	34.66	10.32	60.03	100	0 Peak	VERTICAL	2	7320.00	44.42	-29.58	74.00	55.41	36.56	12.77	60.52	100	0 Peak	VERTICAL
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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.



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

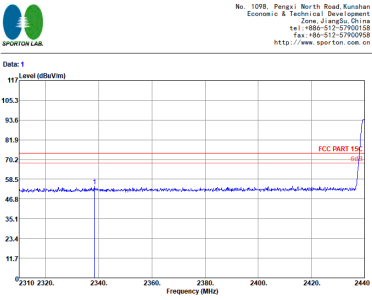
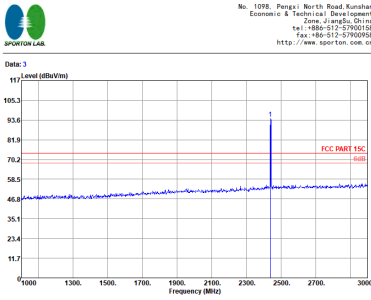
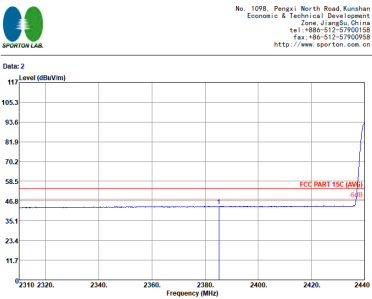
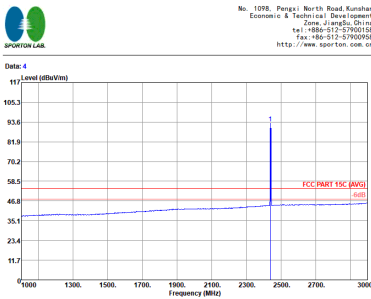
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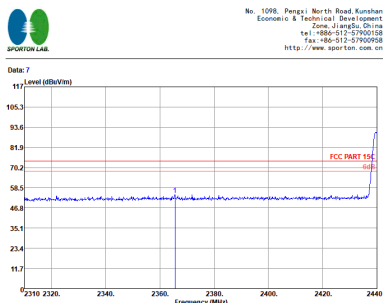
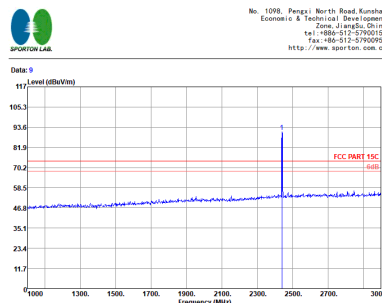
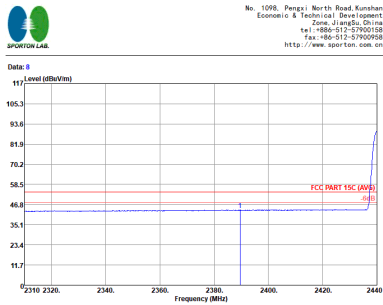
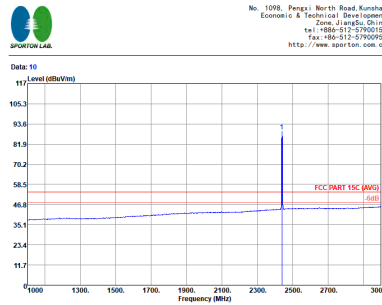


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BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHZ	
2	Vertical	Fundamental
<b>Peak</b>	<p>No. 1098, Pengzi North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p> <p>Site : 032004-K3 Condition : FCC PART 15C 3m 3117 SN 00218442 VERTICAL Project : RSM 1000.000MHz VSW:3000.000MHz SMT Auto Mode : (FR) 102106-01 MEI : 18 Plane : #12 EIF-BASE1 Full-directivity Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor Loss Factor cm deg 1 2483.92 55.26 -18.74 74.00 49.50 31.13 7.27 32.64 400 42 Peak VERTICAL</p>	<p>No. 1098, Pengzi 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 : 032004-K3 Condition : FCC PART 15C 3m 3117 SN 00218442 VERTICAL Project : RSM 1000.000MHz VSW:3000.000MHz SMT Auto Mode : (FR) 102106-01 MEI : 18 Plane : #12 EIF-BASE1 Full-directivity Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor Loss Factor cm deg 1 * 2480.00 92.35 18.35 74.00 86.59 31.13 7.27 32.64 400 42 Peak VERTICAL</p>
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2.4GHz 2400~2483.5MHz  
BLE (ANT 2) -2Mbps (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH00 2402MHz	
2	Horizontal	Vertical
Peak Avg.	<p>Site : 030906-KS Condition : FCC PART 15C 3m 3117 SW 002186A2 HORIZONTAL Project : RSM 1000 0000KHz YBR 3000 0000KHz SRT Auto Mode : FR1 102106-01 IMEI : #12 81F-BASE1 Plane : X Full-directivity : Over Limit : HeadAntenna : Cable Preamp : A/Pos : T/Pos : Remark : Pol/Phas : 1 4800.00 41.44 -32.56 74.00 56.73 34.51 10.24 60.04 300 0 Peak HORIZONTAL</p>	<p>Site : 030906-KS Condition : FCC PART 15C 3m 3117 SW 002186A2 VERTICAL Project : RSM 1000 0000KHz YBR 3000 0000KHz SRT Auto Mode : FR1 102106-01 IMEI : #12 81F-BASE1 Plane : X Full-directivity : Over Limit : HeadAntenna : Cable Preamp : A/Pos : T/Pos : Remark : Pol/Phas : 1 4800.00 41.37 -32.63 74.00 56.66 34.51 10.24 60.04 100 0 Peak VERTICAL</p>





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2	Horizontal	Vertical																		
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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 BLE (ANT 2) -2Mbps (LF)

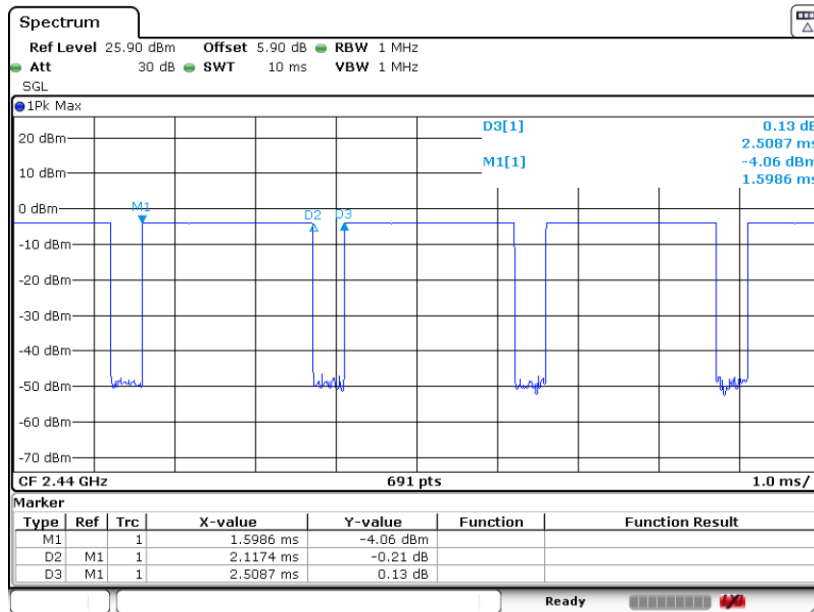
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## Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
Bluetooth LE 1Mbps	84.40	2.117	0.472	0.51KHz
Bluetooth LE 2Mbps	56.96	1.074	0.931	1KHz

### Bluetooth LE 1Mbps





Bluetooth LE 2Mbps

