



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant.	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)
CDD 1S2T 802.11b CH 03 2422MHz		4845	41.87	-32.13	74	62.88	34	10.25	65.26	300	0	P	H
		7260	53.22	-20.78	74	71.25	35.75	12.72	66.5	370	73	P	H
		7260	49.43	-4.57	54	67.46	35.75	12.72	66.5	370	73	A	H
		4845	41.89	-32.11	74	62.9	34	10.25	65.26	100	0	P	V
		7260	56.11	-17.89	74	74.14	35.75	12.72	66.5	368	48	P	V
		7260	53.43	-0.57	54	71.46	35.75	12.72	66.5	368	48	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. CDD 1S2T	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)
802.11g CH 10 2457MHz	*	2454	115.87	-	-	113.21	32.36	7.22	36.92	310	247	P	H
	*	2454	107.9	-	-	105.24	32.36	7.22	36.92	310	247	A	H
		2484.7	64.5	-9.5	74	61.93	32.34	7.25	37.02	310	247	P	H
		2483.68	52.24	-1.76	54	49.67	32.34	7.25	37.02	310	247	A	H
	*	2460	114.3	-	-	111.64	32.36	7.22	36.92	101	122	P	V
	*	2460	106.83	-	-	104.17	32.36	7.22	36.92	101	122	A	V
		2483.74	65.47	-8.53	74	62.9	32.34	7.25	37.02	101	122	P	V
		2483.56	53.46	-0.54	54	50.89	32.34	7.25	37.02	101	122	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz
WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. CDD 1S2T	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)
802.11g CH 10 2457MHz		4920	41.55	-32.45	74	62.51	34	10.34	65.3	300	0	P	H
		7365	49.46	-24.54	74	67.81	35.77	12.73	66.85	300	0	P	H
		4920	42.51	-31.49	74	63.47	34	10.34	65.3	100	0	P	V
		7365	53.29	-20.71	74	71.64	35.77	12.73	66.85	118	96	P	V
		7365	44.9	-9.1	54	63.25	35.77	12.73	66.85	118	96	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full (Band Edge @ 3m)

WIFI Ant. CDD 1S2T	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)
802.11ax HE20 Full CH 01 2412MHz		2388	66.33	-7.67	74	63.34	32.4	7.1	36.51	292	118	P	H
		2389.95	53.38	-0.62	54	50.39	32.4	7.1	36.51	292	118	A	H
	*	2410	116.41	-	-	113.5	32.39	7.13	36.61	292	118	P	H
	*	2414	105.81	-	-	102.9	32.39	7.13	36.61	292	118	A	H
		2388.65	62.82	-11.18	74	59.83	32.4	7.1	36.51	371	75	P	V
		2389.17	50.45	-3.55	54	47.46	32.4	7.1	36.51	371	75	A	V
	*	2408	116.07	-	-	113.16	32.39	7.13	36.61	371	75	P	V
*	2414	106.29	-	-	103.38	32.39	7.13	36.61	371	75	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full (Harmonic @ 3m)

WIFI Ant. CDD 1S2T	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)
802.11ax HE20 Full CH 01 2412MHz		4830	40.47	-33.53	74	61.48	34	10.25	65.26	300	0	P	H
		4830	40.24	-33.76	74	61.25	34	10.25	65.26	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

WIFI 802.11 ax HE40 Full (Band Edge @ 3m)

WIFI Ant. CDD 1S2T	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)
802.11ax HE40 Full CH 03 2422MHz		2384.49	65.25	-8.75	74	62.39	32.31	7.1	36.55	142	137	P	H
		2387.74	53.03	-0.97	54	50.04	32.4	7.1	36.51	142	137	A	H
	*	2487.1	54.33	-19.67	74	51.76	32.34	7.25	37.02	142	137	P	H
	*	2485.12	42.94	-11.06	54	40.37	32.34	7.25	37.02	142	137	A	H
		2418	109.92	-	-	106.98	32.39	7.16	36.61	142	137	P	H
		2416	100.32	-	-	97.38	32.39	7.16	36.61	142	137	A	H
		2386.05	63.73	-10.27	74	60.74	32.4	7.1	36.51	312	84	P	V
		2386.57	51.49	-2.51	54	48.5	32.4	7.1	36.51	312	84	A	V
	*	2484.22	54.53	-19.47	74	51.96	32.34	7.25	37.02	312	84	P	V
	*	2485.36	44	-10	54	41.43	32.34	7.25	37.02	312	84	A	V
	2428	110.44	-	-	107.62	32.38	7.16	36.72	312	84	P	V	
	2416	100.28	-	-	97.34	32.39	7.16	36.61	312	84	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE40 Full (Harmonic @ 3m)

WIFI Ant. CDD 1S2T	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)
802.11ax HE40 Full CH 03 2422MHz		4845	40.65	-33.35	74	61.66	34	10.25	65.26	300	0	P	H
		7260	42.78	-31.22	74	60.81	35.75	12.72	66.5	300	0	P	H
		4845	40.99	-33.01	74	62	34	10.25	65.26	100	0	P	V
		7260	43.42	-30.58	74	61.45	35.75	12.72	66.5	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 WIFI 802.11g (LF)

Table with 14 columns: WIFI, Note, Frequency, Level, Over, Limit, Read, Antenna, Path, Preamp, Ant, Table, Peak, Pol. It contains 11 rows of test data for 2.4GHz WIFI 802.11g LF and a Remark section at the bottom.



<TXBF 1S2T>

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
BF 1S2T		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
8802.11ax HE20 Full CH 07 2442MHz	*	2438	121.11	-	-	118.37	32.37	7.19	36.82	245	237	P	H
	*	2440	108.29	-	-	105.55	32.37	7.19	36.82	245	237	A	H
		2483.92	70.67	-3.33	74	68.1	32.34	7.25	37.02	245	237	P	H
		2483.56	51.16	-2.84	54	48.59	32.34	7.25	37.02	245	237	A	H
	*	2442	117.71	-	-	114.97	32.37	7.19	36.82	100	67	P	V
	*	2444	106.89	-	-	104.15	32.37	7.19	36.82	100	67	A	V
		2485.9	72.47	-1.53	74	69.9	32.34	7.25	37.02	100	67	P	V
	2484.28	53.32	-0.68	54	50.75	32.34	7.25	37.02	100	67	A	V	
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
BF 1S2T		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full CH 07 2442MHz		4890	45.96	-28.04	74	66.93	34	10.32	65.29	300	0	P	H
		7320	53.25	-20.75	74	71.49	35.77	12.72	66.73	215	39	P	H
		7320	46.6	-7.4	54	64.84	35.77	12.72	66.73	215	39	A	H
		4890	44.86	-29.14	74	65.83	34	10.32	65.29	100	0	P	V
		7320	53.96	-20.04	74	72.2	35.77	12.72	66.73	166	158	P	V
		7320	47.59	-6.41	54	65.83	35.77	12.72	66.73	166	158	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE40 Full (Band Edge @ 3m)

WIFI Ant. BF 1S2T	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)
802.11ax HE40 Full CH 09 2452MHz		2356.8	57.22	-16.78	74	54.54	32.22	7.04	36.58	301	242	P	H
		2360.44	45.27	-8.73	54	42.56	32.22	7.07	36.58	301	242	A	H
	*	2486.44	69.75	-4.25	74	67.18	32.34	7.25	37.02	301	242	P	H
	*	2483.62	53.2	-0.8	54	50.63	32.34	7.25	37.02	301	242	A	H
		2456	112.63	-	-	109.97	32.36	7.22	36.92	301	242	P	H
		2458	100.65	-	-	97.99	32.36	7.22	36.92	301	242	A	H
		2389.82	57.29	-16.71	74	54.3	32.4	7.1	36.51	137	216	P	V
		2389.82	46.5	-7.5	54	43.51	32.4	7.1	36.51	137	216	A	V
	*	2489.08	66.33	-7.67	74	63.88	32.33	7.25	37.13	137	216	P	V
	*	2485.3	50.05	-3.95	54	47.48	32.34	7.25	37.02	137	216	A	V
	2464	112.6	-	-	109.94	32.36	7.22	36.92	137	216	P	V	
	2464	100.18	-	-	97.52	32.36	7.22	36.92	137	216	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE40 Full (Harmonic @ 3m)

WIFI Ant. BF 1S2T	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)
802.11ax HE40 Full CH 09 2452MHz		4905	40.67	-33.33	74	61.62	34	10.34	65.29	300	0	P	H
		7350	41.61	-32.39	74	59.97	35.77	12.72	66.85	300	0	P	H
		4905	41.11	-32.89	74	62.06	34	10.34	65.29	100	0	P	V
		7350	42.44	-31.56	74	60.8	35.77	12.72	66.85	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average 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:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
CDD 1S2T		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		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

Note: All modes had been tested, only the worst channel test data of each mode are shown in the report

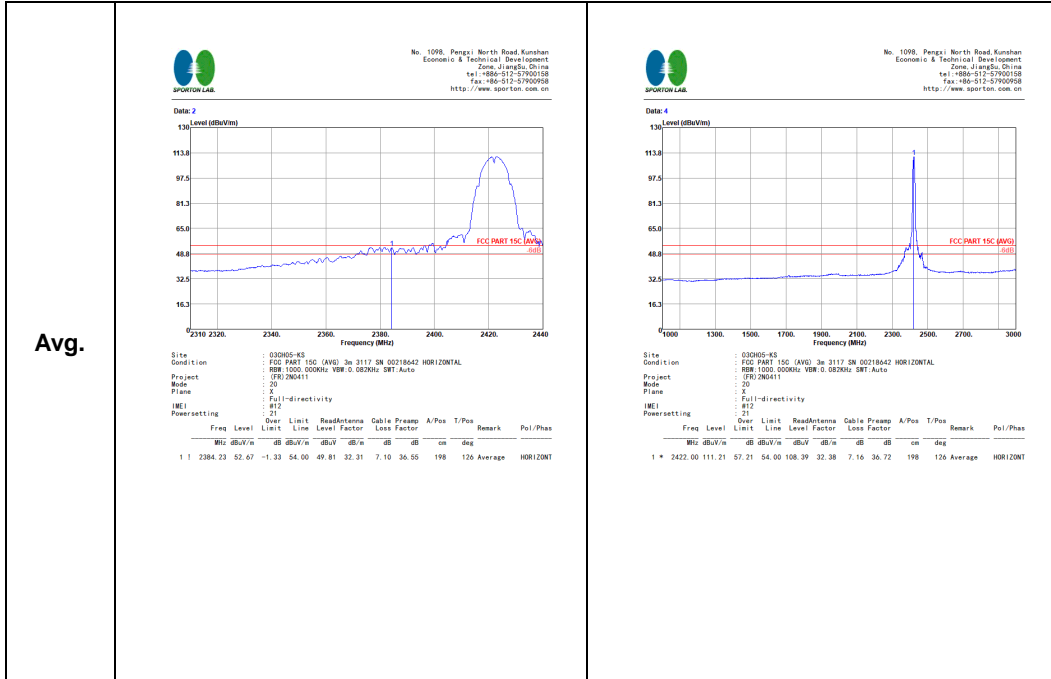


<CDD 1S2T>

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																													
ANT	802.11b CH03 2422MHz																																																													
CDD 1S2T	Horizontal	Fundamental																																																												
Peak	<p>No. 1098, Pengxi North Road, Kunshan Economic & Technological Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p> <p>Site : 03D065-KS Condition : FCC PART 15C 3m 3117.5M 007186A3 HORIZONTAL Project : RSM 1000.000kHz VBW 3000.000kHz SMT Auto Mode : FREQ20411 Plane : Z Polar : Full-directivity IMEI : 812 PowerSetting : 21</p> <table border="1"> <thead> <tr> <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>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>ca</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2382.02</td> <td>62.17</td> <td>-11.83</td> <td>74.00</td> <td>59.31</td> <td>32.31</td> <td>7.10</td> <td>36.55</td> <td>198</td> <td>126 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Line	Level	Factor	Loss	Factor	ca	deg	1	2382.02	62.17	-11.83	74.00	59.31	32.31	7.10	36.55	198	126 Peak	HORIZONTAL	<p>No. 1098, Pengxi North Road, Kunshan Economic & Technological Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p> <p>Site : 03D065-KS Condition : FCC PART 15C 3m 3117.5M 007186A3 HORIZONTAL Project : RSM 1000.000kHz VBW 3000.000kHz SMT Auto Mode : FREQ20411 Plane : Z Polar : Full-directivity IMEI : 812 PowerSetting : 21</p> <table border="1"> <thead> <tr> <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>Freq</th> <th>Level</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>ca</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2422.00</td> <td>113.50</td> <td>39.50</td> <td>74.00</td> <td>110.68</td> <td>32.38</td> <td>7.10</td> <td>36.72</td> <td>198</td> <td>126 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Line	Level	Factor	Loss	Factor	ca	deg	1	2422.00	113.50	39.50	74.00	110.68	32.38	7.10	36.72	198	126 Peak	HORIZONTAL
Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																						
Freq	Level	Line	Level	Factor	Loss	Factor	ca	deg																																																						
1	2382.02	62.17	-11.83	74.00	59.31	32.31	7.10	36.55	198	126 Peak	HORIZONTAL																																																			
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Freq	Level	Line	Level	Factor	Loss	Factor	ca	deg																																																						
1	2422.00	113.50	39.50	74.00	110.68	32.38	7.10	36.72	198	126 Peak	HORIZONTAL																																																			





WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																											
ANT	802.11b CH03 2422MHz																																																											
CDD 1S2T	Vertical	Fundamental																																																										
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2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

Table with 4 columns: WIFI, ANT, CDD, 1S2T, and two main plot areas. The plots show Level (dBuV/m) vs Frequency (MHz) for Peak and Avg. measurements in Horizontal and Fundamental modes. Includes site information and test parameters.



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																											
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2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

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2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

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2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

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2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

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2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full (Harmonic @ 3m)

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WIFI 802.11 ax HE40 Full (Harmonic @ 3m)

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Emission below 1GHz
2.4GHz WIFI 802.11g (LF)

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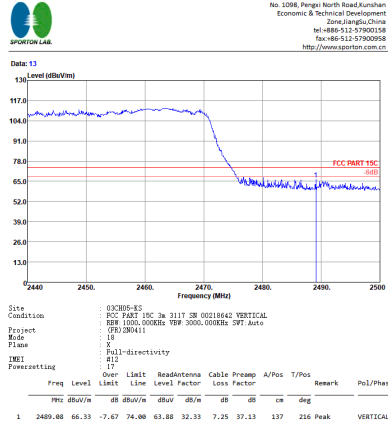
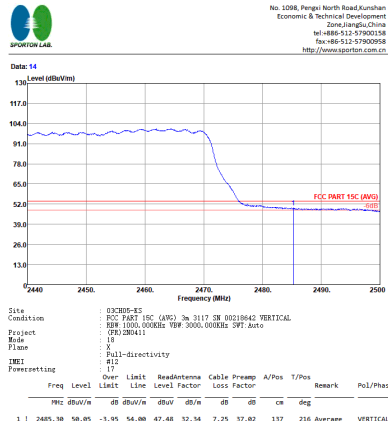


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WIFI 802.11 ax HE20 Full (Harmonic @ 3m)

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Appendix E. Duty Cycle Plots

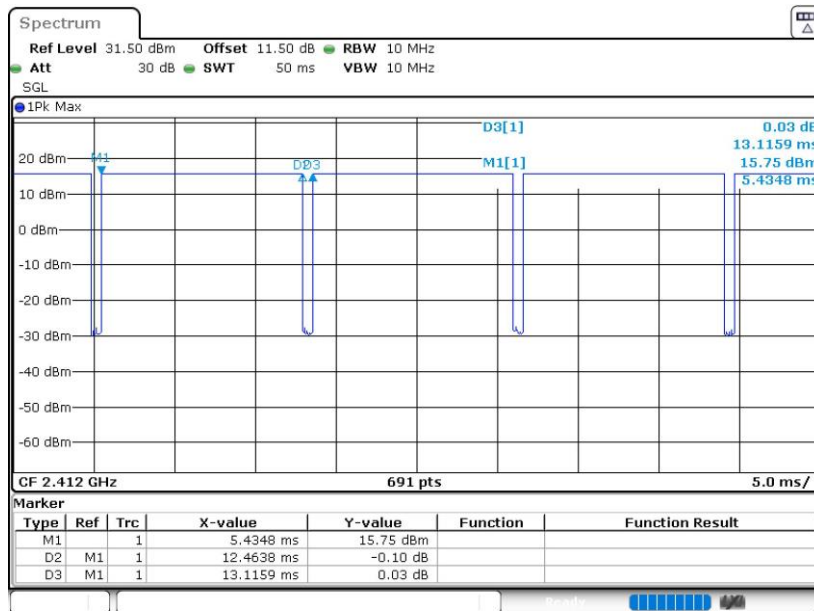
For CDD mode

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1+2	802.11b	95.03	12.464	0.080	0.082kHz
1+2	802.11g	94.67	2.058	0.486	0.51kHz
1+2	802.11ax HE20	98.08	-	-	10Hz
1+2	802.11ax HE40	96.79	0.787	1.271	1.3kHz

For TXBF mode

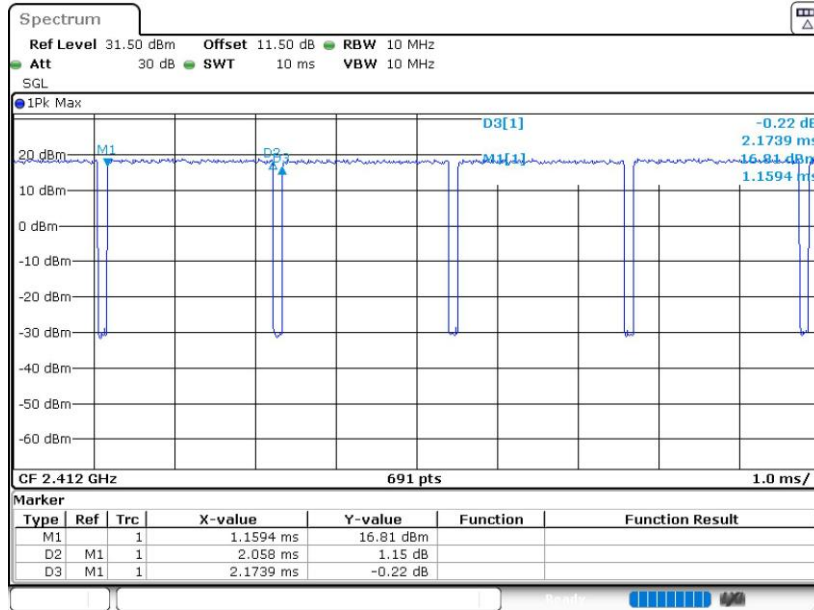
Antenna	Band	Duty Cycle(%)	Duty Factor
1+2	802.11ax HE20	94.5	0.25
1+2	802.11ax HE40	90.3	0.44

802.11b

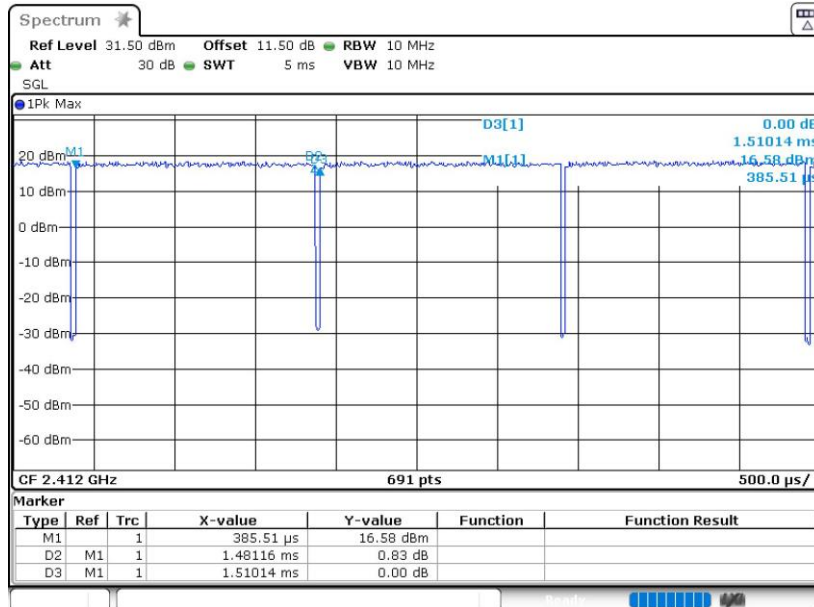




802.11g



802.11ax HE20





802.11ax HE40

