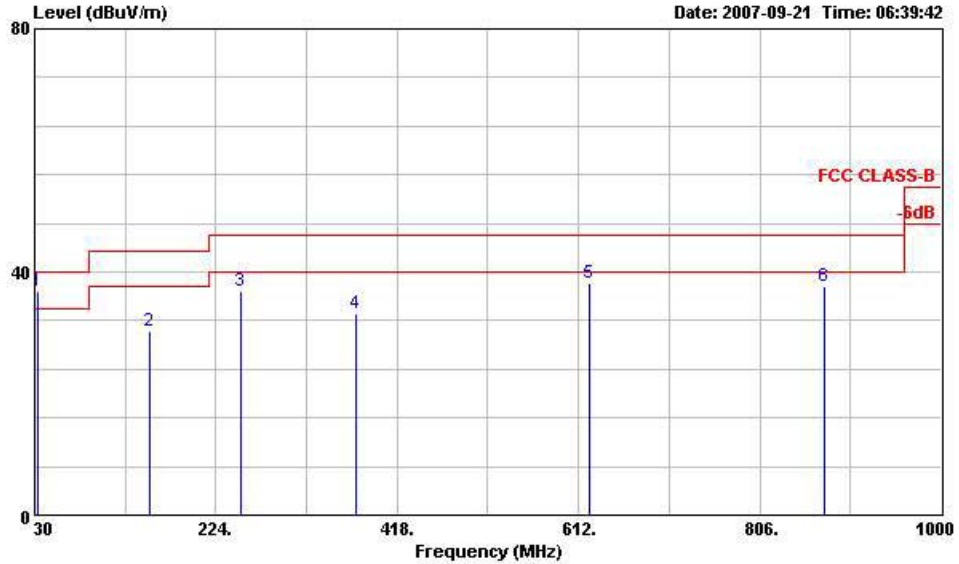


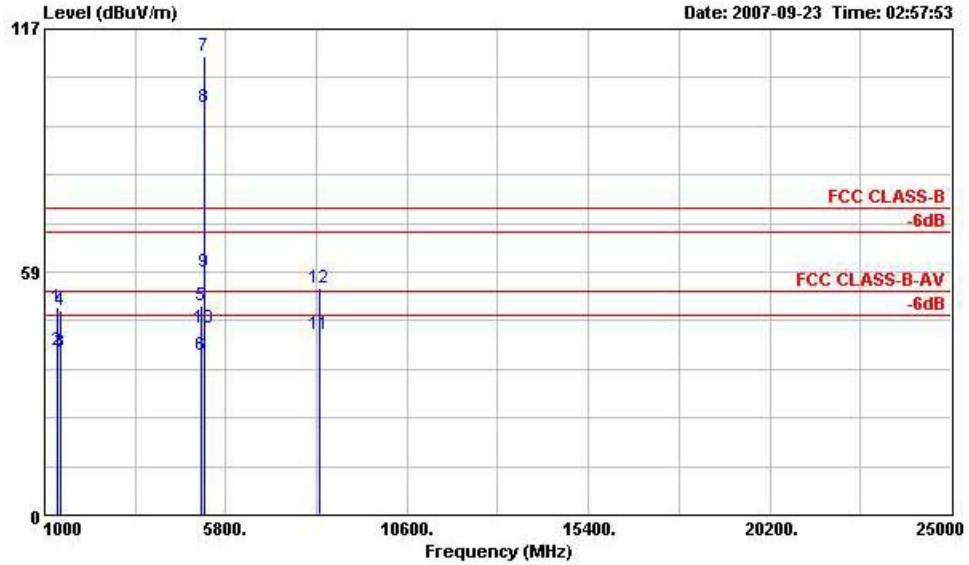
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11a Tx_Ch44;5220MHz
 Data Rate: 24

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	Level	Loss	Factor	Pos	Pos	Remark
					dBuV	dB/m	dB	dB	cm	deg
1	32.700	36.77	-3.23	40.00	46.21	16.33	0.90	26.66	100	78 QP
2	152.580	30.38	-13.12	43.50	44.52	10.46	1.66	26.26	---	--- Peak
3	250.050	36.74	-9.26	46.00	48.03	12.57	2.05	25.91	---	--- Peak
4	374.200	33.13	-12.87	46.00	42.00	14.88	2.49	26.24	---	--- Peak
5	624.100	38.06	-7.94	46.00	41.88	19.96	3.26	27.04	---	--- Peak
6	875.400	37.55	-8.45	46.00	37.68	22.62	3.92	26.67	---	--- Peak



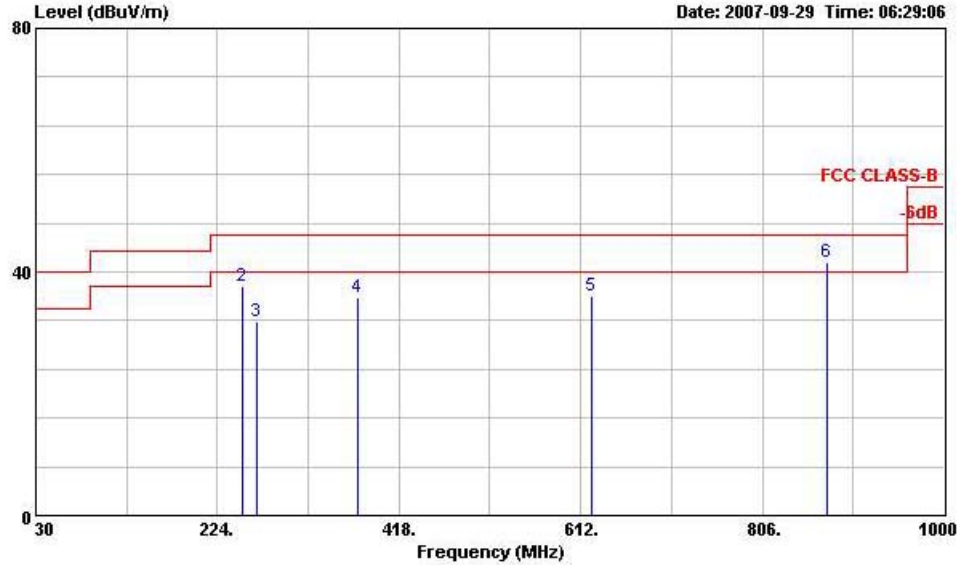
Site :03CH04-HY
 Condition:FCC CLASS-B 3m HF-ANT-6903 VERTICAL
 EUT :AP
 POWER :120Vac/60Hz
 MODEL :FR 791302
 MOME :11a Tx_Ch44;5220MHz
 Data Rate:24

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1326.000	49.90	-24.10	74.00	56.39	24.85	2.60	33.95	100	0 Peak
2	1326.000	39.48	-14.52	54.00	45.97	24.85	2.60	33.95	100	334 Average
3	1412.000	39.14	-14.86	54.00	45.22	25.08	2.68	33.84	100	221 Average
4	1412.000	49.26	-24.74	74.00	55.34	25.08	2.68	33.84	100	0 Peak
5	5150.000	50.35	-23.65	74.00	45.21	33.38	6.00	34.24	100	0 Peak
6	5150.000	38.64	-15.36	54.00	33.50	33.38	6.00	34.24	100	207 Average
7 X	5220.000	110.36			105.11	33.46	6.00	34.21	100	0 Peak
8 @	5220.000	97.98			92.74	33.46	6.00	34.22	100	207 Average
9	5250.000	58.42	-15.58	74.00	53.11	33.50	6.00	34.19	100	0 Peak
10	5250.000	44.93	-9.07	54.00	39.62	33.50	6.00	34.19	100	207 Average
11	8270.000	43.41	-10.59	54.00	33.35	37.19	6.90	34.02	100	233 Average
12	8270.000	54.75	-19.25	74.00	44.69	37.19	6.90	34.02	100	0 Peak

※ Remark: #7 and #8 Fundamental Signal
 Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

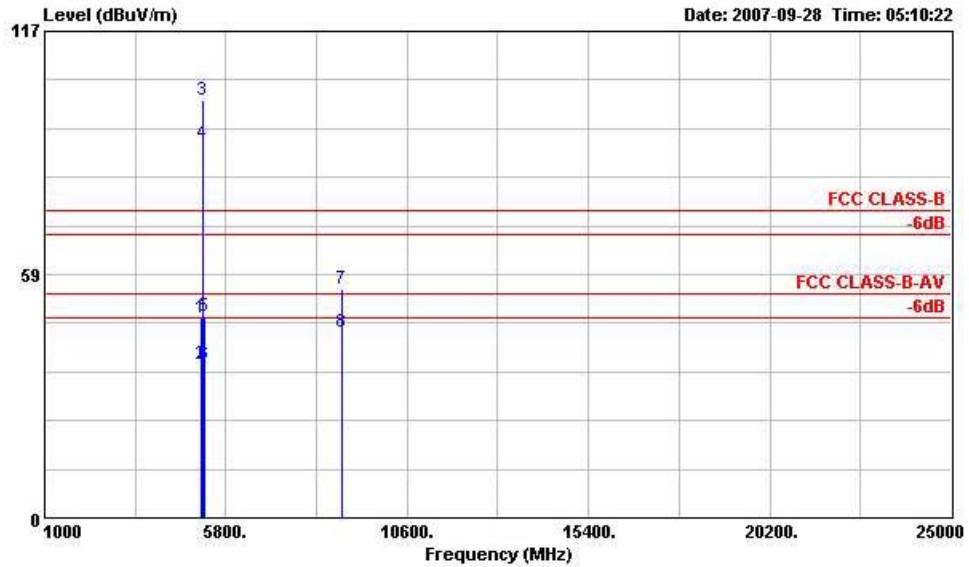
- Test Mode : Mode 4
 - Temperature : 26~27°C
 - Relative Humidity :49~50%
 - Test Engineer : Derek
 - Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition:FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(20M)_Ch36;5180MHz
 Data Rate:6.5

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.810	27.57	-12.43	40.00	37.00	16.36	0.88	26.67	---	---	Peak
2	250.050	37.65	-8.35	46.00	48.94	12.57	2.05	25.91	---	---	Peak
3	266.250	31.90	-14.10	46.00	43.16	12.48	2.11	25.85	---	---	Peak
4	374.200	35.66	-10.34	46.00	44.53	14.88	2.49	26.24	---	---	Peak
5	624.100	36.09	-9.91	46.00	39.91	19.96	3.26	27.04	---	---	Peak
6 !	875.400	41.55	-4.45	46.00	41.68	22.62	3.92	26.67	100	258	Peak



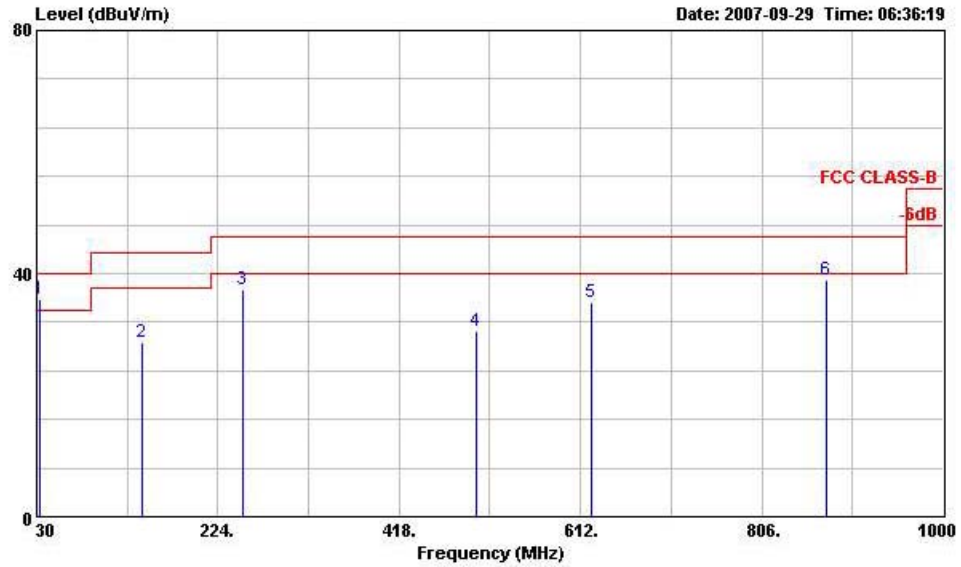
Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 1ln(a) Tx(20M)_Ch36;5180MHz
 Data Rate: 6.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	Level	Loss	Factor	Pos	Pos	
					dBuV	dB	dB	cm	deg	
1	5150.000	48.11	-25.89	74.00	42.97	33.38	6.00	34.24	100	0 Peak
2	5150.000	37.02	-16.98	54.00	31.88	33.38	6.00	34.24	100	61 Average
3 X	5180.000	100.33			95.14	33.42	6.00	34.23	100	0 Peak
4 X	5180.000	90.04			84.85	33.42	6.00	34.23	100	61 Average
5	5250.000	48.60	-25.40	74.00	43.29	33.50	6.00	34.19	100	0 Peak
6	5250.000	36.90	-17.10	54.00	31.59	33.50	6.00	34.19	100	61 Average
7	8892.000	55.18	-18.82	74.00	44.70	37.96	7.22	34.70	100	0 Peak
8	8892.000	44.78	-9.22	54.00	34.30	37.96	7.22	34.70	100	344 Average

※Remark: #3 and #4 Fundamental Signal
 Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

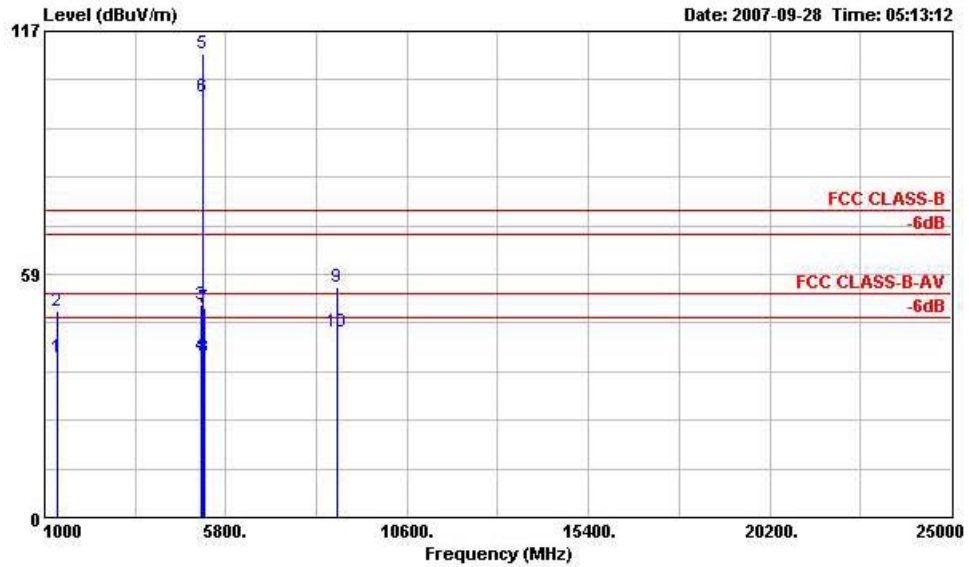
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 HOME : 11n(a) Tx(20M)_Ch36;5180MHz
 Data Rate: 6.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	32.970	35.77	-4.23	40.00	45.21	16.33	0.90	26.66	100	95 Peak
2	143.130	28.71	-14.79	43.50	42.72	10.65	1.64	26.30	---	---
3	250.050	37.28	-8.72	46.00	48.57	12.57	2.05	25.91	---	---
4	500.200	30.60	-15.40	46.00	37.96	16.91	2.81	27.08	---	---
5	624.100	35.30	-10.70	46.00	39.12	19.96	3.26	27.04	---	---
6	875.400	39.05	-6.95	46.00	39.18	22.62	3.92	26.67	---	---



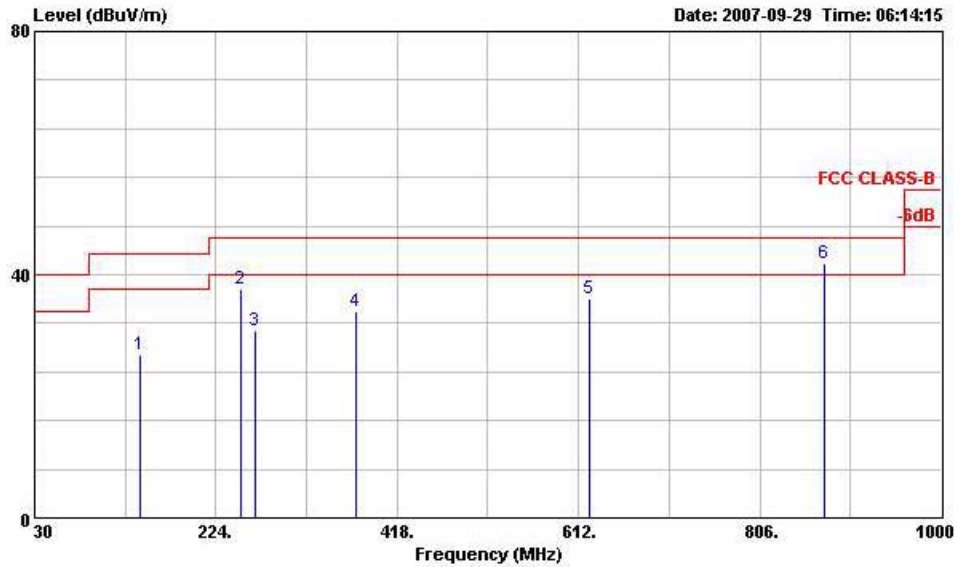
Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(20M)_Ch36;5180MHz
 Data Rate: 6.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	1332.000	38.54	-15.46	54.00	44.99	24.90	2.60	33.95	100	245 Average
2	1332.000	49.70	-24.30	74.00	56.15	24.90	2.60	33.95	100	0 Peak
3	5150.000	51.32	-22.68	74.00	46.18	33.38	6.00	34.24	100	0 Peak
4	5150.000	38.74	-15.26	54.00	33.60	33.38	6.00	34.24	100	4 Average
5 X	5180.000	111.73			106.54	33.42	6.00	34.23	100	0 Peak
6 @	5180.000	101.03			95.84	33.42	6.00	34.23	100	4 Average
7	5250.000	50.53	-23.47	74.00	45.22	33.50	6.00	34.19	100	0 Peak
8	5250.000	38.61	-15.39	54.00	33.30	33.50	6.00	34.19	100	4 Average
9	8734.000	55.32	-18.68	74.00	44.99	37.78	7.13	34.58	100	0 Peak
10	8734.000	44.68	-9.32	54.00	34.35	37.78	7.13	34.58	100	245 Average

※Remark: #5 and #6 Fundamental Signal
 Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

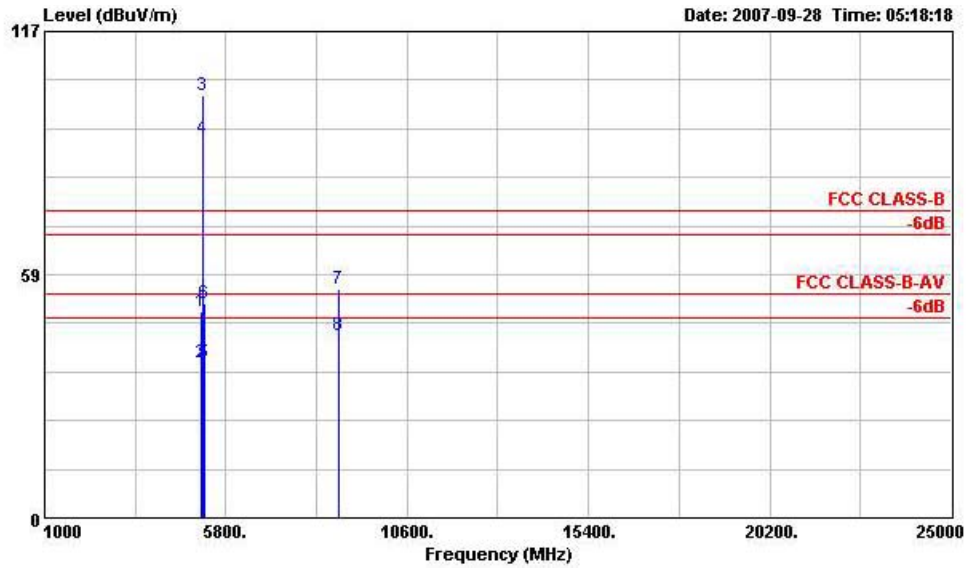
- Test Mode : Mode 5
 - Temperature : 26~27°C
 - Relative Humidity :49~50%
 - Test Engineer : Derek
 - Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(20M)_Ch40;5200MHz
 Data Rate: 6.5

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	143.130	26.91	-16.59	43.50	40.92	10.65	1.64	26.30	---	---	Peak
2	250.050	37.55	-8.45	46.00	48.84	12.57	2.05	25.91	---	---	Peak
3	266.250	30.82	-15.18	46.00	42.08	12.48	2.11	25.85	---	---	Peak
4	374.200	34.03	-11.97	46.00	42.90	14.88	2.49	26.24	---	---	Peak
5	624.100	36.09	-9.91	46.00	39.91	19.96	3.26	27.04	---	---	Peak
6	875.400	41.90	-4.10	46.00	42.03	22.62	3.92	26.67	100	14	Peak



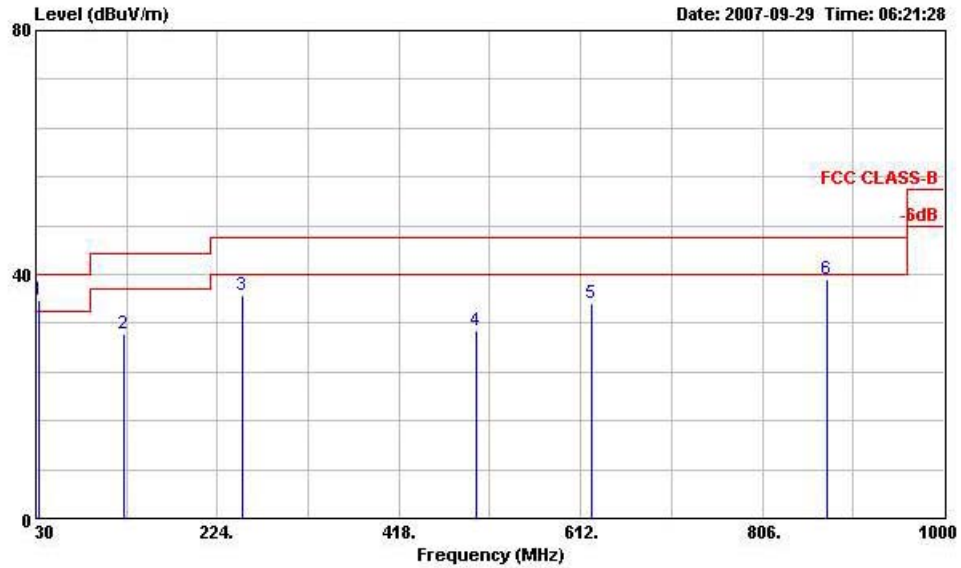
Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(20M)_Ch40;5200MHz
 Data Rate: 6.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	Level	Loss	Factor	Pos	Pos	Remark
					dBuV	dB	dB	cm	deg	
1	5150.000	49.62	-24.38	74.00	44.48	33.38	6.00	34.24	100	0 Peak
2	5150.000	37.38	-16.62	54.00	32.24	33.38	6.00	34.24	100	323 Average
3 X	5200.000	101.61			96.42	33.42	6.00	34.23	100	0 Peak
4 X	5200.000	91.25			86.03	33.44	6.00	34.22	100	323 Average
5	5250.000	37.43	-16.57	54.00	32.12	33.50	6.00	34.19	100	323 Average
6	5250.000	51.47	-22.53	74.00	46.16	33.50	6.00	34.19	100	0 Peak
7	8780.000	55.17	-18.83	74.00	44.79	37.84	7.16	34.62	100	0 Peak
8	8780.000	43.98	-10.02	54.00	33.60	37.84	7.16	34.62	100	165 Average

※Remark: #3 and #4 Fundamental Signal
 Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

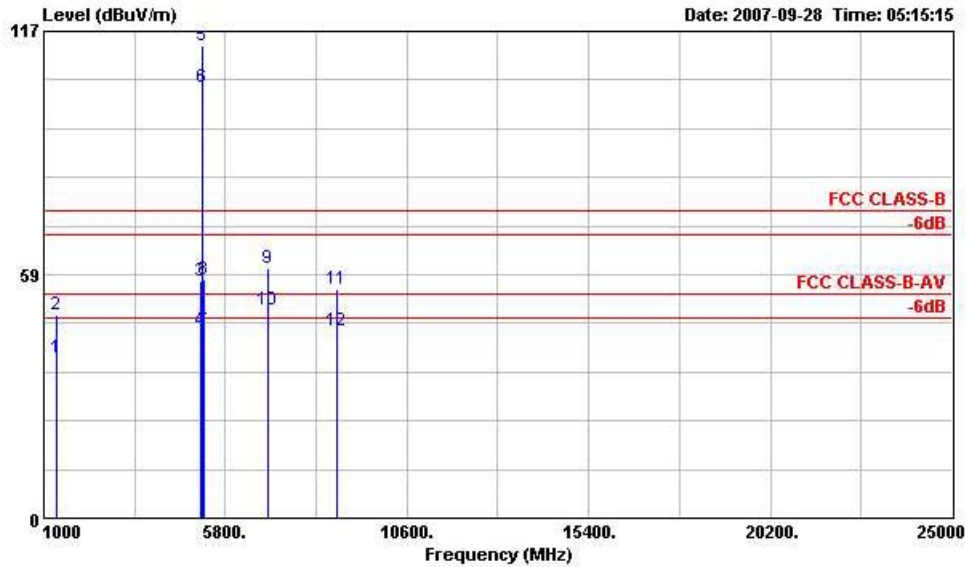
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(20M)_Ch40;5200MHz
 Data Rate: 6.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	Level	Loss	Factor	Pos	Pos	Remark
					dBuV	Factor	dB	cm	deg	
1	32.970	35.81	-4.19	40.00	45.25	16.33	0.90	26.66	100	127 Peak
2	124.770	30.26	-13.24	43.50	43.22	11.90	1.51	26.37	---	Peak
3	250.050	36.62	-9.38	46.00	47.91	12.57	2.05	25.91	---	Peak
4	500.200	30.87	-15.13	46.00	38.23	16.91	2.81	27.08	---	Peak
5	624.100	35.18	-10.82	46.00	39.00	19.96	3.26	27.04	---	Peak
6	875.400	39.28	-6.72	46.00	39.41	22.62	3.92	26.67	---	Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 1ln(a) Tx(20M)_Ch40;5200MHz
 Data Rate: 6.5

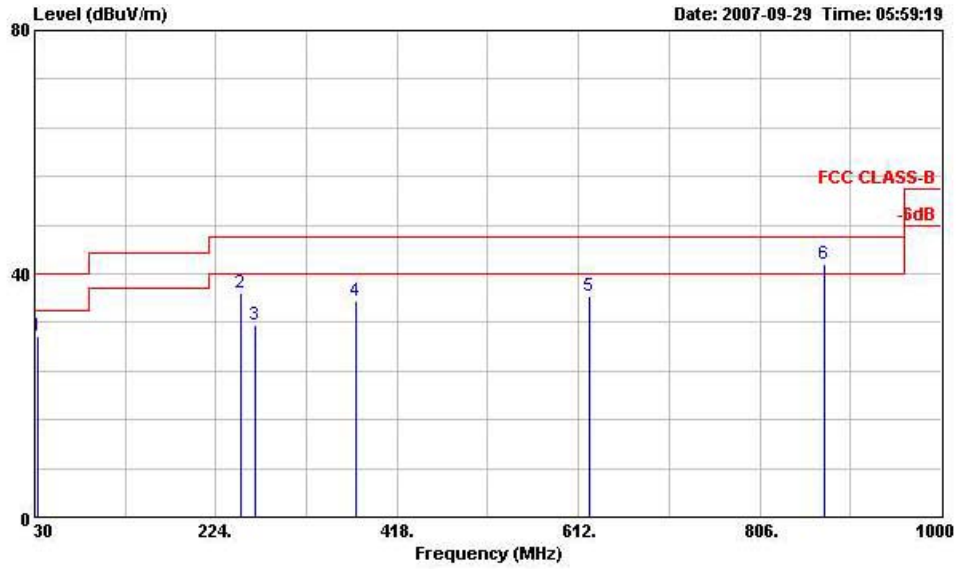
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	Level	Loss	Factor	Pos	Pos	Remark
					dBuV	dB	dB	cm	deg	
1	1332.000	38.54	-15.46	54.00	44.99	24.90	2.60	33.95	100	233 Average
2	1332.000	48.98	-25.02	74.00	55.43	24.90	2.60	33.95	100	0 Peak
3	5150.000	57.01	-16.99	74.00	51.87	33.38	6.00	34.24	100	0 Peak
4	5150.000	45.13	-8.87	54.00	39.99	33.38	6.00	34.24	100	23 Average
5 X	5200.000	113.67			108.45	33.44	6.00	34.22	100	0 Peak
6 @	5200.000	103.46			98.24	33.44	6.00	34.22	100	23 Average
7	5250.000	45.04	-8.96	54.00	39.73	33.50	6.00	34.19	100	23 Average
8	5250.000	57.28	-16.72	74.00	51.97	33.50	6.00	34.19	100	0 Peak
9	6934.000	60.13	-13.87	74.00	51.27	35.06	6.34	32.54	100	0 Peak
10 !	6934.000	50.13	-3.87	54.00	41.27	35.06	6.34	32.54	100	23 Average
11	8726.000	55.10	-18.90	74.00	44.79	37.76	7.13	34.58	100	0 Peak
12	8726.000	45.01	-8.99	54.00	34.70	37.76	7.13	34.58	100	127 Average

※Remark: #5 and #6 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

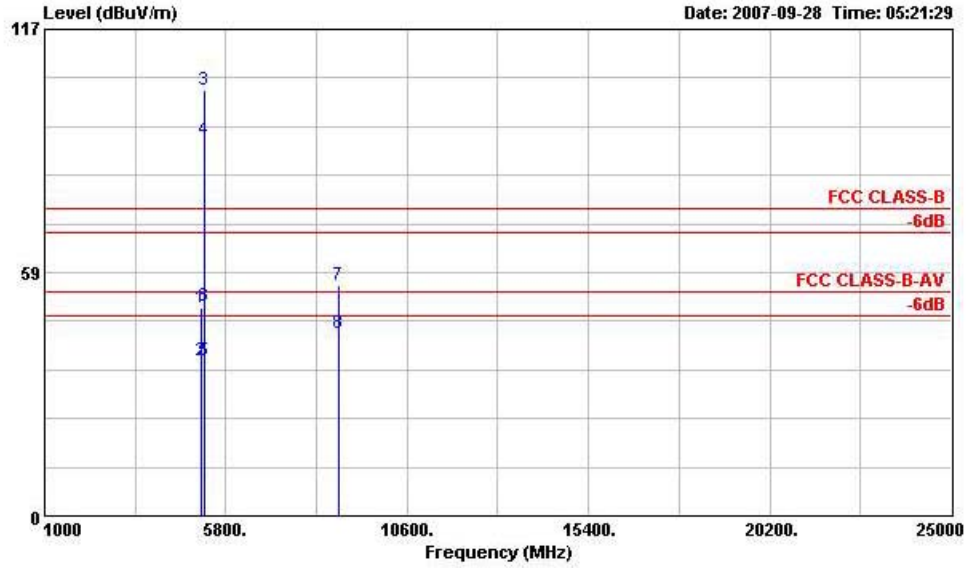
- Test Mode : Mode 6
 - Temperature : 26~27°C
 - Relative Humidity :49~50%
 - Test Engineer : Derek
 - Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(20M)_Ch44;5220MHz
 Data Rate: 6.5

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	Level	Factor	Loss	Factor	Pos	Pos	Remark
					dBuV	dB/m	dB	dB	cm	deg	
1	33.780	29.68	-10.32	40.00	39.12	16.31	0.91	26.66	---	---	Peak
2	250.050	36.92	-9.08	46.00	48.21	12.57	2.05	25.91	---	---	Peak
3	266.250	31.63	-14.37	46.00	42.89	12.48	2.11	25.85	---	---	Peak
4	374.200	35.47	-10.53	46.00	44.34	14.88	2.49	26.24	---	---	Peak
5	624.100	36.25	-9.75	46.00	40.07	19.96	3.26	27.04	---	---	Peak
6 !	875.400	41.63	-4.37	46.00	41.76	22.62	3.92	26.67	100	241	Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 1ln(a) Tx(20M)_Ch44;5220MHz
 Data Rate: 6.5

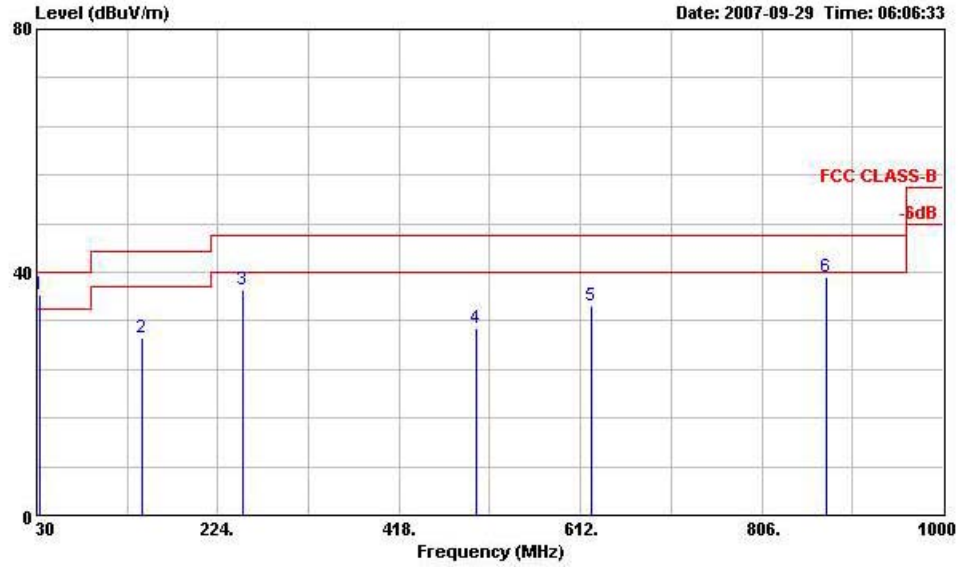
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	5150.000	50.05	-23.95	74.00	44.91	33.38	6.00	34.24	100	0 Peak
2	5150.000	37.28	-16.72	54.00	32.14	33.38	6.00	34.24	100	49 Average
3 X	5220.000	102.37			97.13	33.46	6.00	34.22	100	0 Peak
4 X	5220.000	90.27			85.03	33.46	6.00	34.22	100	49 Average
5	5250.000	37.26	-16.74	54.00	31.95	33.50	6.00	34.19	100	49 Average
6	5250.000	50.36	-23.64	74.00	45.05	33.50	6.00	34.19	100	0 Peak
7	8782.000	55.26	-18.74	74.00	44.88	37.84	7.16	34.62	100	0 Peak
8	8782.000	43.97	-10.03	54.00	33.59	37.84	7.16	34.62	100	178 Average

※Remark: #3 and #4 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

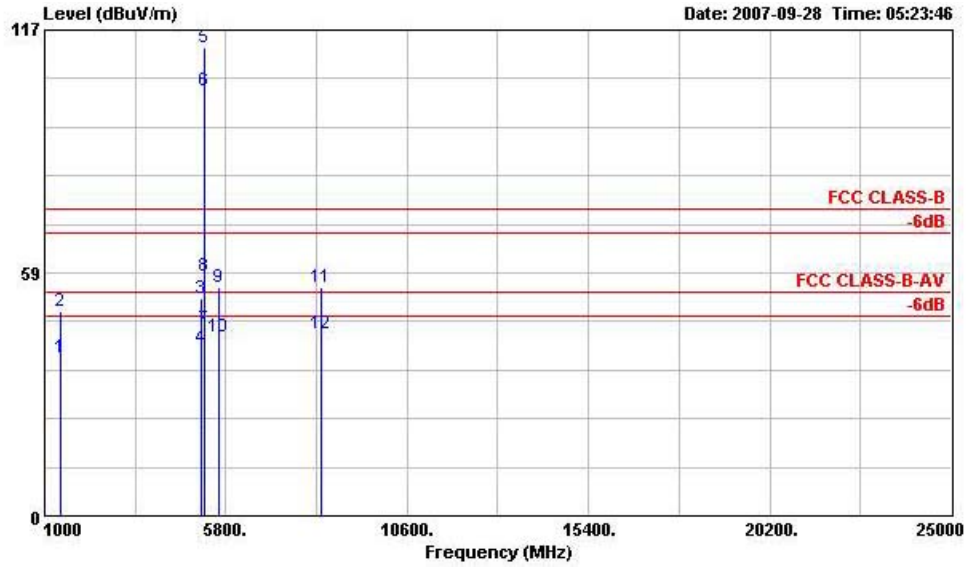
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 1ln(a) Tx(20M)_Ch44;5220MHz
 Data Rate: 6.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	32.970	36.21	-3.79	40.00	45.65	16.33	0.90	26.66	100	73 Peak
2	142.860	29.34	-14.16	43.50	43.38	10.63	1.64	26.30	---	---
3	250.050	37.13	-8.87	46.00	48.42	12.57	2.05	25.91	---	---
4	500.200	30.92	-15.08	46.00	38.28	16.91	2.81	27.08	---	---
5	624.100	34.50	-11.50	46.00	38.32	19.96	3.26	27.04	---	---
6	875.400	39.13	-6.87	46.00	39.26	22.62	3.92	26.67	---	---



Site :03CH04-HY
 Condition:FCC CLASS-B 3m HF-ANT-6903 VERTICAL
 EUT :AP
 POWER :120Vac/60Hz
 MODEL :FR 791302
 MOME :1ln(a) Tx(20M)_Ch44;5220MHz
 Data Rate:6.5

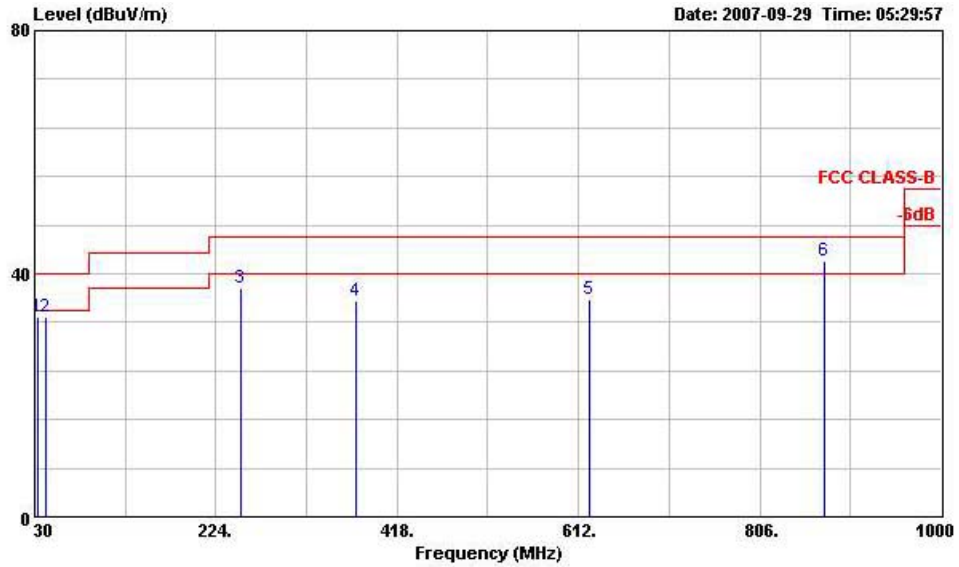
	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1430.000	38.03	-15.97	54.00	44.01	25.12	2.71	33.81	100	321	Average
2	1430.000	49.11	-24.89	74.00	55.09	25.12	2.71	33.81	100	0	Peak
3	5150.000	52.45	-21.55	74.00	47.31	33.38	6.00	34.24	100	0	Peak
4	5150.000	40.40	-13.60	54.00	35.26	33.38	6.00	34.24	100	356	Average
5 X	5220.000	112.95			107.71	33.46	6.00	34.22	100	0	Peak
6 @	5220.000	102.34			97.10	33.46	6.00	34.22	100	356	Average
7	5250.000	44.91	-9.09	54.00	39.60	33.50	6.00	34.19	100	356	Average
8	5250.000	57.92	-16.08	74.00	52.61	33.50	6.00	34.19	100	0	Peak
9	5606.000	55.19	-18.81	74.00	49.39	33.86	6.01	34.08	100	0	Peak
10	5606.000	42.97	-11.03	54.00	37.17	33.86	6.01	34.08	100	356	Average
11	8308.000	55.21	-18.79	74.00	45.17	37.23	6.91	34.11	100	0	Peak
12	8308.000	44.00	-10.00	54.00	33.96	37.23	6.91	34.11	100	177	Average

※Remark: #5 and #6 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

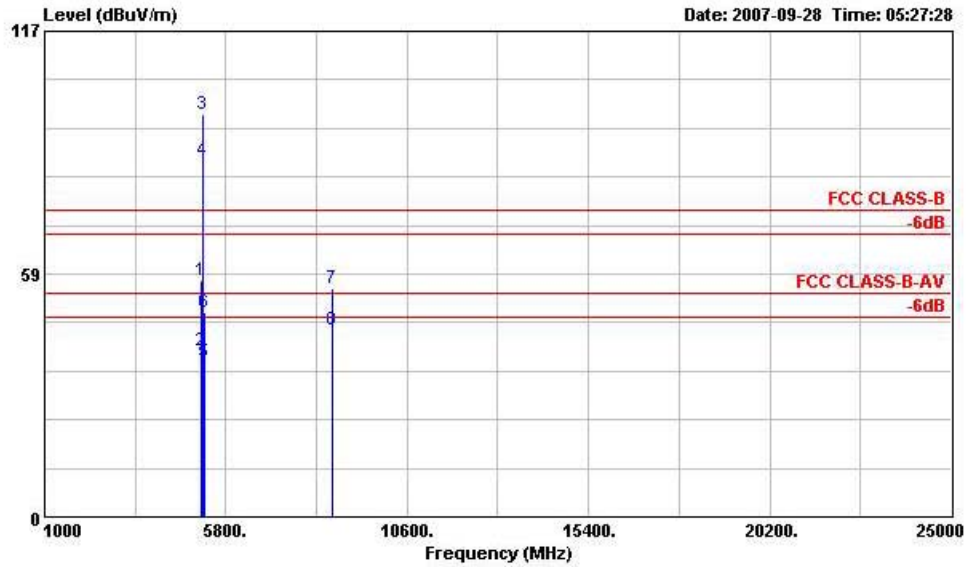
- Test Mode : Mode 7
 - Temperature : 26~27°C
 - Relative Humidity :49~50%
 - Test Engineer : Derek
 - Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch38;5190MHz
 Data Rate: 13.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	Level	Loss	Factor	Pos	Pos	Remark
					dBuV	Factor	dB	cm	deg	
1	33.780	32.83	-7.17	40.00	42.27	16.31	0.91	26.66	---	Peak
2	41.610	32.89	-7.11	40.00	47.44	11.11	0.97	26.63	---	Peak
3	250.050	37.71	-8.29	46.00	49.00	12.57	2.05	25.91	---	Peak
4	374.200	35.46	-10.54	46.00	44.33	14.88	2.49	26.24	---	Peak
5	624.100	35.73	-10.27	46.00	39.55	19.96	3.26	27.04	---	Peak
6 !	875.400	42.06	-3.94	46.00	42.19	22.62	3.92	26.67	100	90 Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 1ln(a) Tx(40M)_Ch38;5190MHz
 Data Rate: 13.5

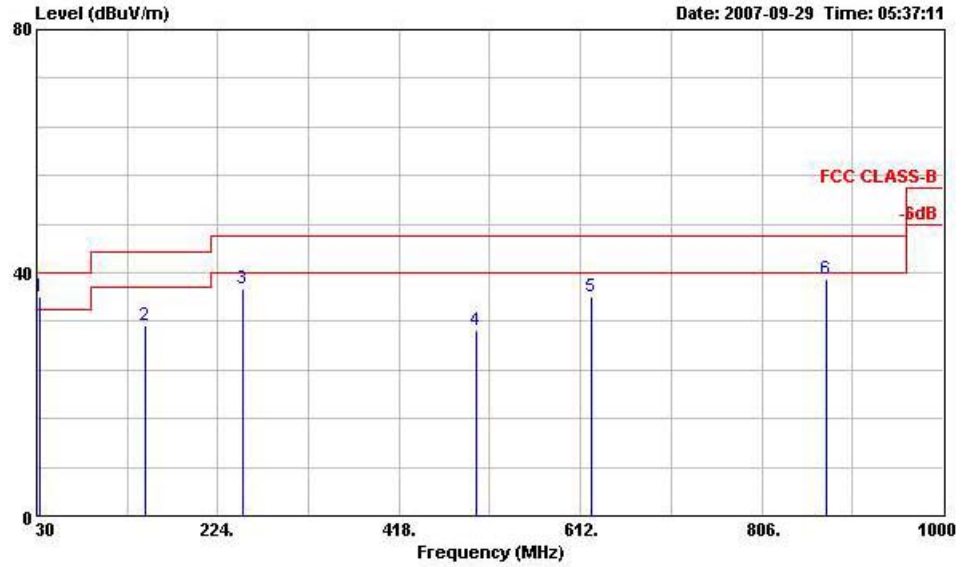
	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5150.000	56.89	-17.11	74.00	51.75	33.38	6.00	34.24	100		0 Peak
2	5150.000	39.87	-14.13	54.00	34.73	33.38	6.00	34.24	100		54 Average
3 X	5190.000	97.02			91.83	33.42	6.00	34.23	100		0 Peak
4 X	5190.000	85.86			80.67	33.42	6.00	34.23	100		54 Average
5	5250.000	37.31	-16.69	54.00	32.00	33.50	6.00	34.19	100		54 Average
6	5250.000	49.37	-24.63	74.00	44.06	33.50	6.00	34.19	100		0 Peak
7	8598.000	55.19	-18.81	74.00	44.98	37.62	7.07	34.48	100		0 Peak
8	8598.000	44.84	-9.16	54.00	34.63	37.62	7.07	34.48	100		53 Average

※Remark: #3 and #4 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

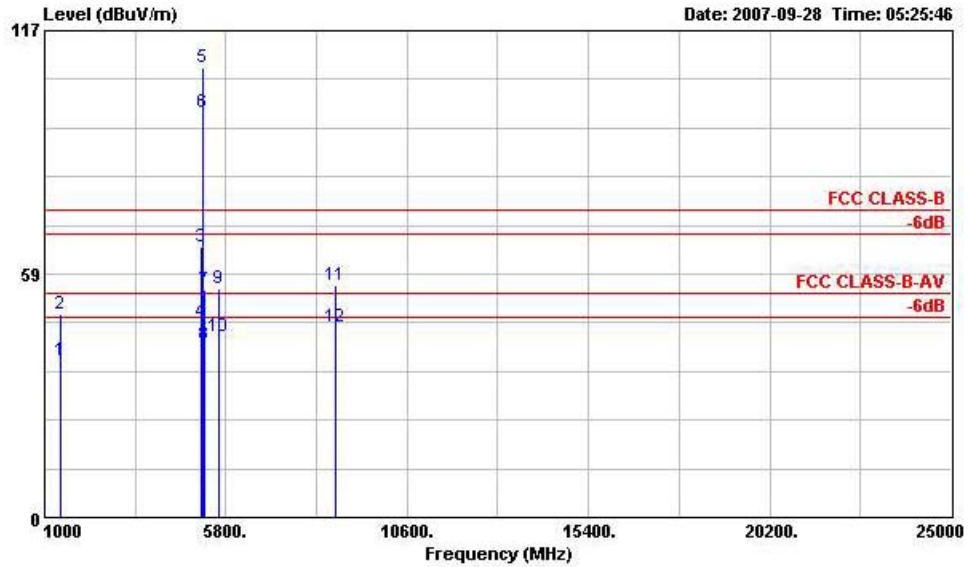
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 1ln(a) Tx(40M)_Ch38;5190MHz
 Data Rate: 13.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 !	32.970	35.94	-4.06	40.00	45.38	16.33	0.90	26.66	100	146 Peak
2	146.100	31.32	-12.18	43.50	45.26	10.70	1.65	26.29	---	---
3	250.050	37.32	-8.68	46.00	48.61	12.57	2.05	25.91	---	---
4	500.200	30.55	-15.45	46.00	37.91	16.91	2.81	27.08	---	---
5	624.100	36.12	-9.88	46.00	39.94	19.96	3.26	27.04	---	---
6	875.400	39.03	-6.97	46.00	39.16	22.62	3.92	26.67	---	---



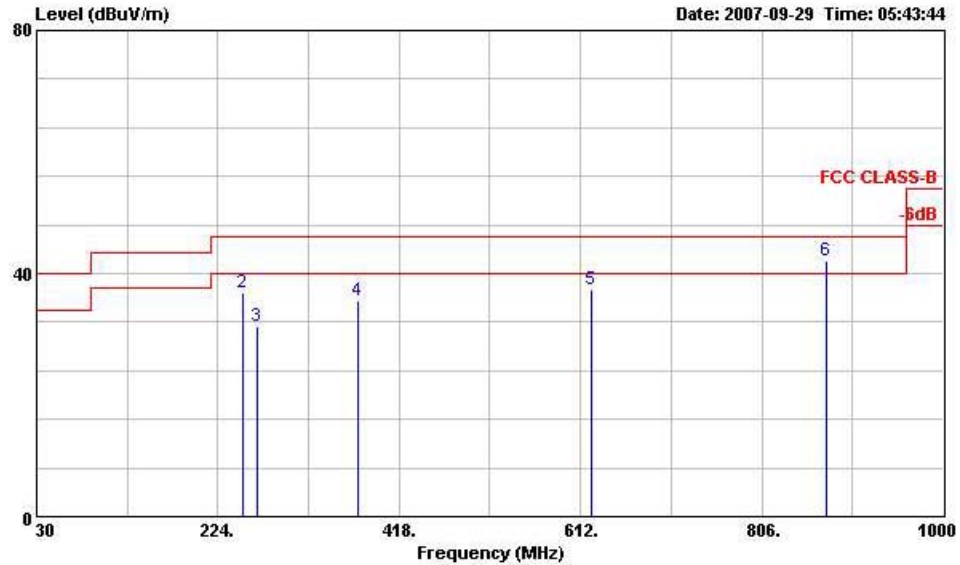
Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch38;5190MHz
 Data Rate: 13.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1428.000	37.89	-16.11	54.00	43.87	25.12	2.71	33.81	100	316 Average
2	1428.000	48.82	-25.18	74.00	54.80	25.12	2.71	33.81	100	0 Peak
3	5150.000	65.02	-8.98	74.00	59.88	33.38	6.00	34.24	100	0 Peak
4	5150.000	46.81	-7.19	54.00	41.67	33.38	6.00	34.24	100	350 Average
5 X	5190.000	108.33			103.14	33.42	6.00	34.23	100	0 Peak
6 @	5190.000	97.21			92.02	33.42	6.00	34.23	100	350 Average
7	5250.000	54.65	-19.35	74.00	49.34	33.50	6.00	34.19	100	0 Peak
8	5250.000	41.49	-12.51	54.00	36.18	33.50	6.00	34.19	100	350 Average
9	5612.000	54.95	-19.05	74.00	49.15	33.86	6.01	34.08	100	0 Peak
10	5612.000	43.56	-10.44	54.00	37.76	33.86	6.01	34.08	100	245 Average
11	8694.000	55.97	-18.03	74.00	45.67	37.74	7.12	34.56	100	0 Peak
12	8694.000	45.61	-8.39	54.00	35.31	37.74	7.12	34.56	100	195 Average

※Remark: #5 and #6 Fundamental Signal
 Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

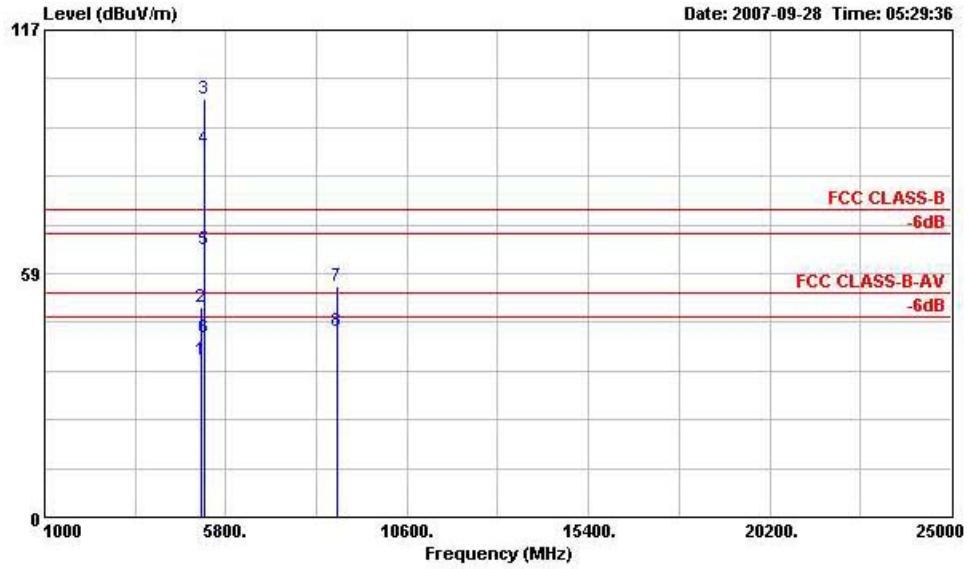
- Test Mode : Mode 8
 - Temperature : 26~27°C
 - Relative Humidity :49~50%
 - Test Engineer : Derek
 - Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch44;5220MHz
 Data Rate:13.5

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.810	28.08	-11.92	40.00	37.51	16.36	0.88	26.67	---	---	Peak
2	250.050	36.86	-9.14	46.00	48.15	12.57	2.05	25.91	---	---	Peak
3	266.250	31.38	-14.62	46.00	42.64	12.48	2.11	25.85	---	---	Peak
4	374.200	35.52	-10.48	46.00	44.39	14.88	2.49	26.24	---	---	Peak
5	624.100	37.43	-8.57	46.00	41.25	19.96	3.26	27.04	---	---	Peak
6	875.400	42.11	-3.89	46.00	42.24	22.62	3.92	26.67	100	79	Peak



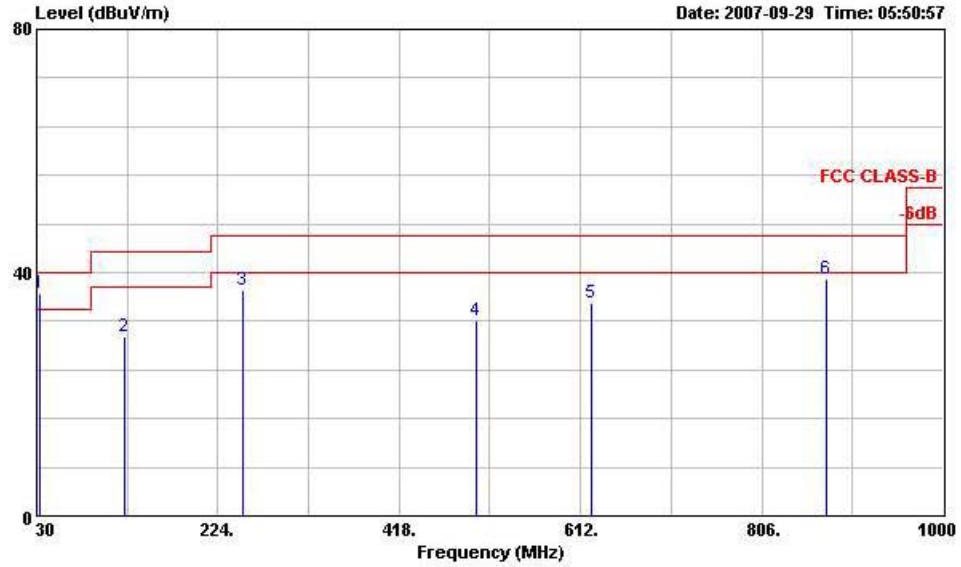
Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch44;5220MHz
 Data Rate: 13.5

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5150.000	37.73	-16.27	54.00	32.59	33.38	6.00	34.24	100	326	Average
2	5150.000	50.36	-23.64	74.00	45.22	33.38	6.00	34.24	100	0	Peak
3 X	5220.000	100.54			95.30	33.46	6.00	34.22	100	0	Peak
4 X	5220.000	88.39			83.15	33.46	6.00	34.22	100	326	Average
5	5250.000	64.44	-9.56	74.00	59.13	33.50	6.00	34.19	100	0	Peak
6	5250.000	43.05	-10.95	54.00	37.74	33.50	6.00	34.19	100	326	Average
7	8764.000	55.35	-18.65	74.00	44.97	37.82	7.16	34.60	100	0	Peak
8	8764.000	44.65	-9.35	54.00	34.27	37.82	7.16	34.60	100	94	Average

※Remark: #3 and #4 Fundamental Signal
 Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

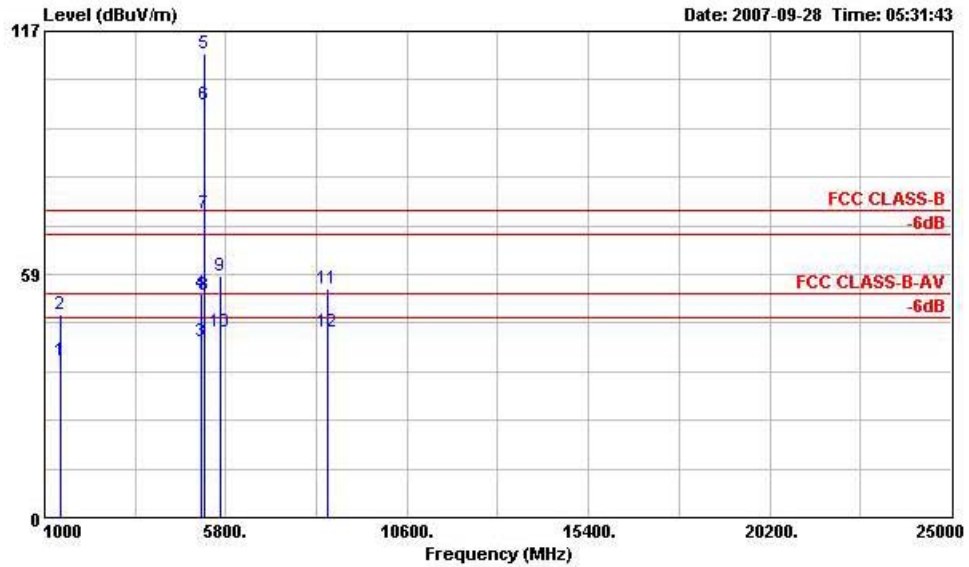
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 1ln(a) Tx(40M)_Ch44;5220MHz
 Data Rate: 13.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	32.970	36.56	-3.44	40.00	46.00	16.33	0.90	26.66	100	214 Peak
2	124.770	29.42	-14.08	43.50	42.38	11.90	1.51	26.37	---	---
3	250.050	37.12	-8.88	46.00	48.41	12.57	2.05	25.91	---	---
4	500.200	32.14	-13.86	46.00	39.50	16.91	2.81	27.08	---	---
5	624.100	34.92	-11.08	46.00	38.74	19.96	3.26	27.04	---	---
6	875.400	38.99	-7.01	46.00	39.12	22.62	3.92	26.67	---	---



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 NOME : 11n(a) Tx(40M)_Ch44;5220MHz
 Data Rate: 13.5

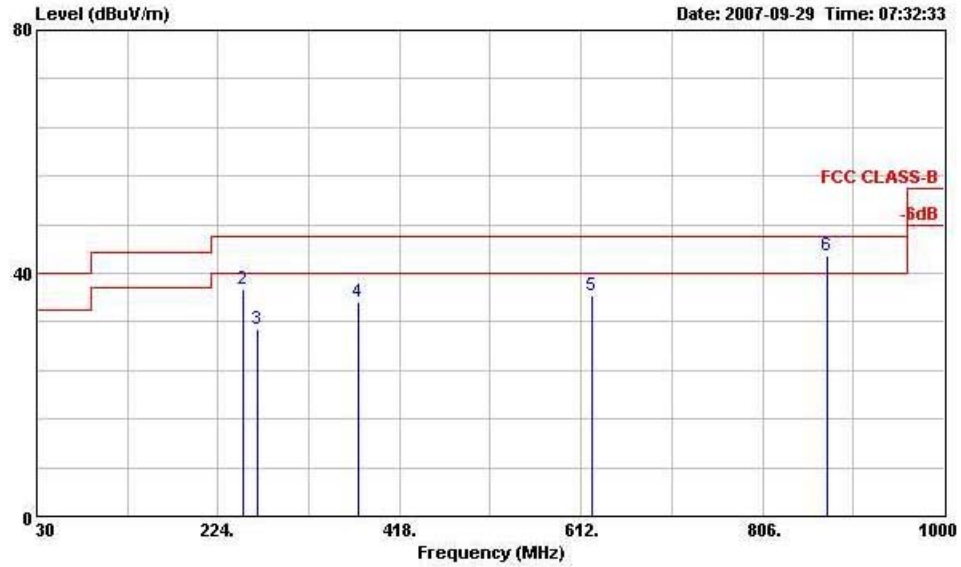
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	1430.000	37.62	-16.38	54.00	43.60	25.12	2.71	33.81	100	345 Average
2	1430.000	48.70	-25.30	74.00	54.68	25.12	2.71	33.81	100	0 Peak
3	5150.000	42.38	-11.62	54.00	37.24	33.38	6.00	34.24	100	28 Average
4	5150.000	53.80	-20.20	74.00	48.66	33.38	6.00	34.24	100	0 Peak
5 X	5220.000	111.48			106.24	33.46	6.00	34.22	100	0 Peak
6 @	5220.000	99.22			93.98	33.46	6.00	34.22	100	28 Average
7 !	5250.000	73.26	-0.74	74.00	67.95	33.50	6.00	34.19	100	0 Peak
8 !	5250.000	53.61	-0.39	54.00	48.30	33.50	6.00	34.19	100	28 Average
9	5638.000	58.07	-15.93	74.00	52.24	33.88	6.02	34.07	100	0 Peak
10	5638.000	44.58	-9.42	54.00	38.75	33.88	6.02	34.07	100	28 Average
11	8500.000	55.12	-18.88	74.00	45.01	37.50	7.01	34.40	100	0 Peak
12	8500.000	44.83	-9.17	54.00	34.72	37.50	7.01	34.40	100	69 Average

※Remark: #5 and #6 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

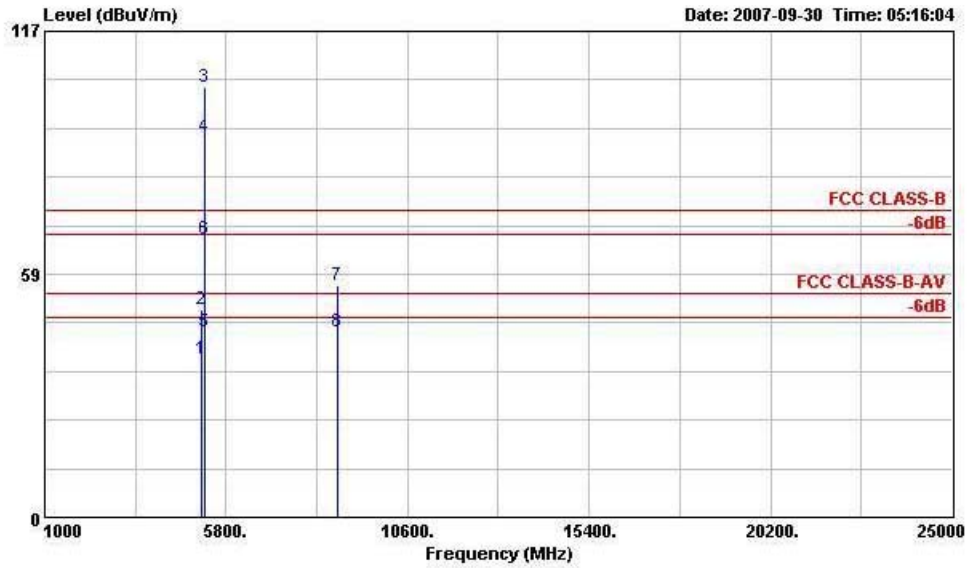
- Test Mode : Mode 9 (Module2)
- Temperature : 26~27°C
- Relative Humidity :49~50%
- Test Engineer : Derek
- Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch44;5220MHz
 Data Rate: 13.5

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.810	30.00	-10.00	40.00	39.43	16.36	0.88	26.67	---	---	Peak
2	250.050	37.27	-8.73	46.00	48.56	12.57	2.05	25.91	---	---	Peak
3	266.250	30.77	-15.23	46.00	42.03	12.48	2.11	25.85	---	---	Peak
4	374.200	35.22	-10.78	46.00	44.09	14.88	2.49	26.24	---	---	Peak
5	624.100	36.28	-9.72	46.00	40.10	19.96	3.26	27.04	---	---	Peak
6	875.400	42.97	-3.03	46.00	43.10	22.62	3.92	26.67	100	246	Peak



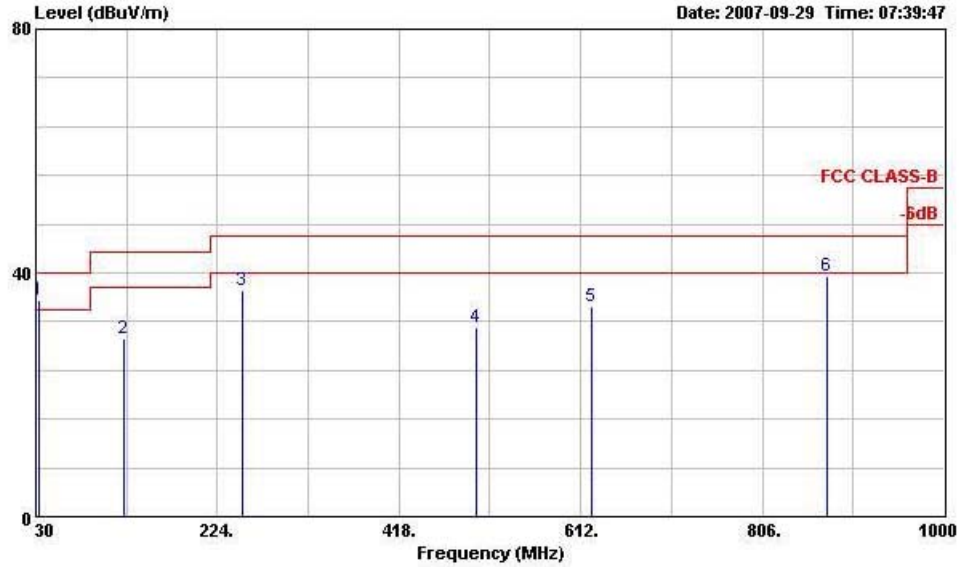
Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch44;5220MHz
 Data Rate: 13.5

	Freq	Level	Over Limit	Limit Line	Readantenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5150.000	38.20	-15.80	54.00	33.06	33.38	6.00	34.24	100	317	Average
2	5150.000	50.15	-23.85	74.00	45.01	33.38	6.00	34.24	100	0	Peak
3 X	5220.000	103.44			98.20	33.46	6.00	34.22	100	0	Peak
4 X	5220.000	91.52			86.28	33.46	6.00	34.22	100	317	Average
5	5250.000	44.61	-9.39	54.00	39.30	33.50	6.00	34.19	100	317	Average
6	5250.000	67.06	-6.94	74.00	61.75	33.50	6.00	34.19	100	0	Peak
7	8742.000	55.82	-18.18	74.00	45.49	37.78	7.15	34.60	100	0	Peak
8	8742.000	44.57	-9.43	54.00	34.24	37.78	7.15	34.60	100	273	Average

※Remark: #3 and #4 Fundamental Signal
 Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

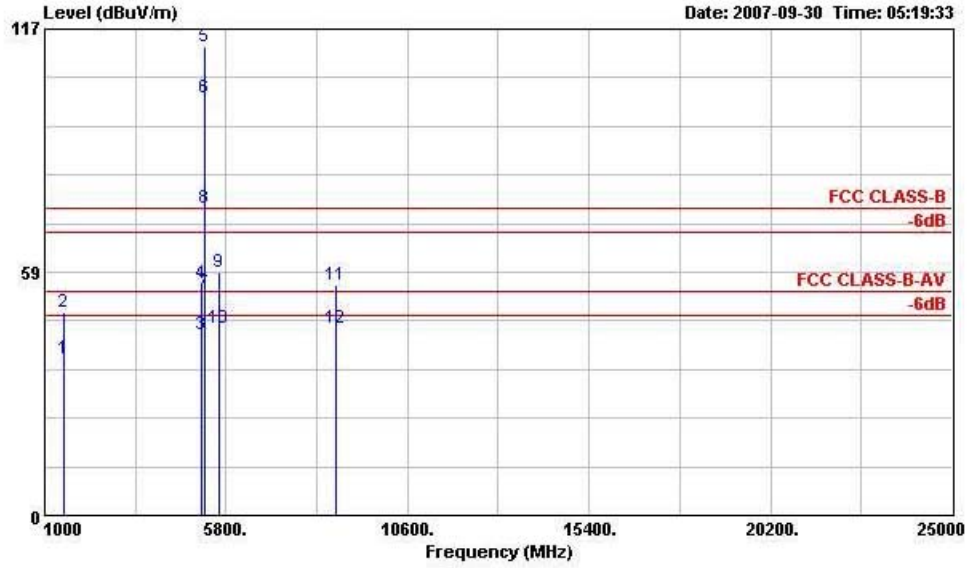
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANI2724 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 1ln(a) Tx(40M)_Ch44;5220MHz
 Data Rate: 13.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	Level	Loss	Factor	Pos	Pos	Remark
					Factor			cm	deg	
1	32.970	35.40	-4.60	40.00	44.84	16.33	0.90	26.66	100	169 Peak
2	124.770	29.24	-14.26	43.50	42.20	11.90	1.51	26.37	---	Peak
3	250.050	37.01	-8.99	46.00	48.30	12.57	2.05	25.91	---	Peak
4	500.200	31.16	-14.84	46.00	38.52	16.91	2.81	27.08	---	Peak
5	624.100	34.50	-11.50	46.00	38.32	19.96	3.26	27.04	---	Peak
6	875.400	39.60	-6.40	46.00	39.73	22.62	3.92	26.67	---	Peak



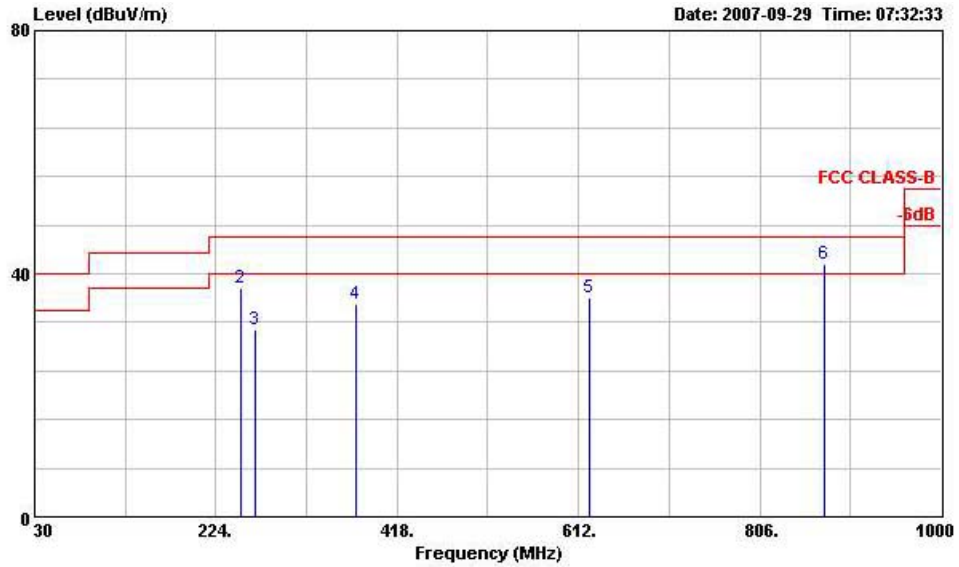
Site : 03CH04-HY
 Configuration: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
 13.5
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch44;5220MHz
 Data Rate: 13.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1500.000	37.64	-36.36	74.00	43.26	25.30	2.79	33.70	100	245 Average
2	1500.000	48.88	-25.12	74.00	54.50	25.30	2.79	33.70	100	0 Peak
3	5150.000	43.32	-10.68	54.00	38.18	33.38	6.00	34.24	100	20 Average
4	5150.000	55.63	-18.37	74.00	50.49	33.38	6.00	34.24	100	0 Peak
5 X	5220.000	112.85			107.61	33.46	6.00	34.22	100	0 Peak
6 0	5220.000	100.64			95.40	33.46	6.00	34.22	100	20 Average
7 !	5250.000	53.49	-0.51	54.00	48.18	33.50	6.00	34.19	100	20 Average
8 !	5250.000	73.72	-0.28	74.00	68.41	33.50	6.00	34.19	100	0 Peak
9	5598.000	58.43	-15.57	74.00	52.64	33.85	6.01	34.08	100	0 Peak
10	5598.000	44.95	-9.05	54.00	39.16	33.85	6.01	34.08	100	20 Average
11	8692.000	55.31	-18.69	74.00	45.04	37.72	7.11	34.56	100	0 Peak
12	8692.000	45.01	-8.99	54.00	34.74	37.72	7.11	34.56	100	143 Average

※Remark: #5 and #6 Fundamental Signal
 Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

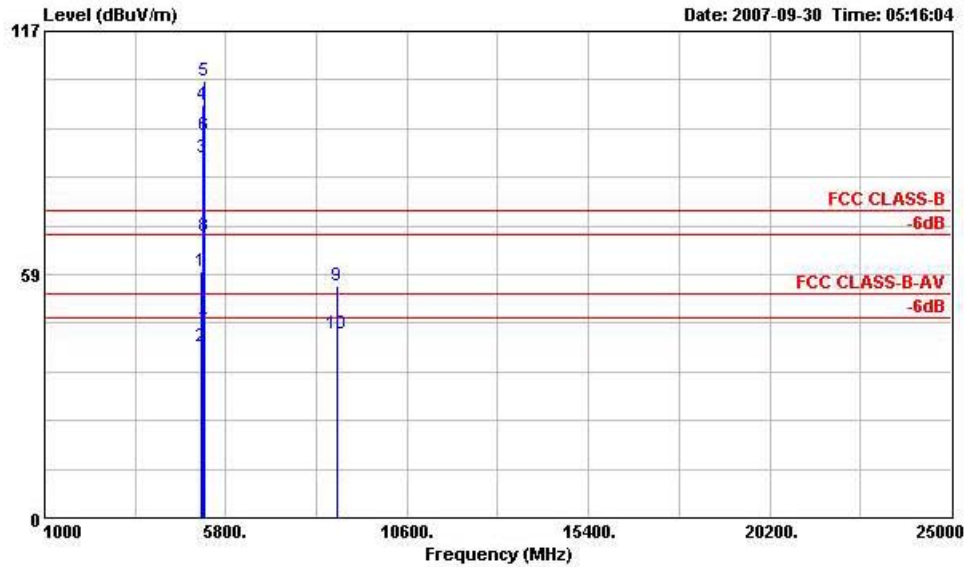
- Test Mode : Mode 10
 - Temperature : 26~27°C
 - Relative Humidity :49~50%
 - Test Engineer : Derek
 - Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch38+11n(a) Tx(40)M_Ch44
 Data Rate: 13.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table		
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Pos	Pos	Remark	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.810	30.45	-9.55	40.00	39.88	16.36	0.88	26.67	---	---	Peak
2	250.050	37.59	-8.41	46.00	48.88	12.57	2.05	25.91	---	---	Peak
3	266.250	30.68	-15.32	46.00	41.94	12.48	2.11	25.85	---	---	Peak
4	374.200	34.97	-11.03	46.00	43.84	14.88	2.49	26.24	---	---	Peak
5	624.100	35.98	-10.02	46.00	39.80	19.96	3.26	27.04	---	---	Peak
6 !	875.400	41.65	-4.35	46.00	41.78	22.62	3.92	26.67	100	145	Peak



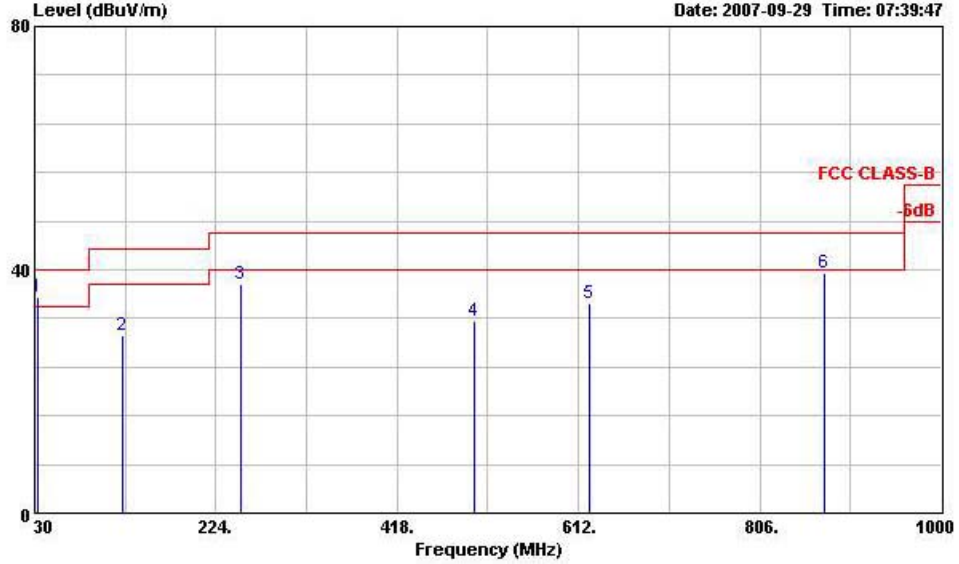
Site :03CH04-HY
 Condition:FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
 EUT :AP
 POWER :120Vac/60Hz
 MODEL :FR 791302
 MOME :1ln(a) Tx(40M)_Ch38+1ln(a) Tx(40)M_Ch44
 Data Rate:13.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	5150.000	59.20	-14.80	74.00	54.06	33.38	6.00	34.24	100	0 Peak
2	5150.000	41.07	-12.93	54.00	35.93	33.38	6.00	34.24	100	54 Average
3 X	5190.000	86.49			81.30	33.42	6.00	34.23	100	54 Average
4 X	5190.000	99.11			93.92	33.42	6.00	34.23	100	0 Peak
5 X	5220.000	104.89			99.65	33.46	6.00	34.22	100	0 Peak
6 X	5220.000	91.93			86.69	33.46	6.00	34.22	100	317 Average
7	5250.000	45.03	-8.97	54.00	39.72	33.50	6.00	34.19	100	317 Average
8	5250.000	67.86	-6.14	74.00	62.55	33.50	6.00	34.19	100	0 Peak
9	8742.000	55.74	-18.26	74.00	45.41	37.78	7.15	34.60	100	0 Peak
10	8742.000	44.25	-9.75	54.00	33.92	37.78	7.15	34.60	100	335 Average

※Remark: #3, #4, #5 and #6 Fundamental Signal
 Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

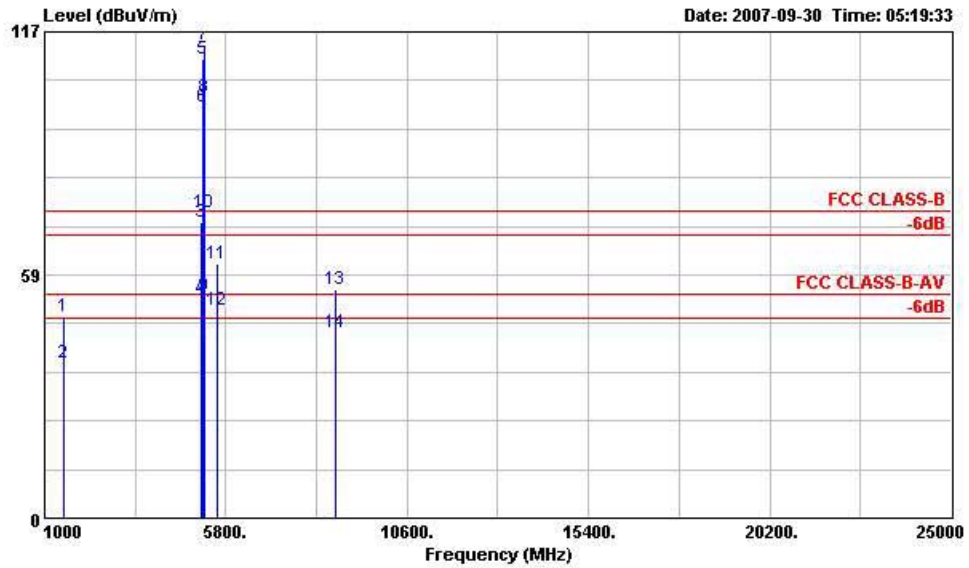
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 1ln(a) Tx(40M)_Ch38+1ln(a) Tx(40)M_Ch44
 Data Rate: 13.5

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	Level	Factor	Loss	Factor	Pos	Pos	Remark
					dBuV	dB/m	dB	dB	cm	deg	
1	32.970	35.65	-4.35	40.00	45.09	16.33	0.90	26.66	100	148	Peak
2	124.770	29.24	-14.26	43.50	42.20	11.90	1.51	26.37	---	---	Peak
3	250.050	37.54	-8.46	46.00	48.83	12.57	2.05	25.91	---	---	Peak
4	500.200	31.57	-14.43	46.00	38.93	16.91	2.81	27.08	---	---	Peak
5	624.100	34.53	-11.47	46.00	38.35	19.96	3.26	27.04	---	---	Peak
6	875.400	39.44	-6.56	46.00	39.57	22.62	3.92	26.67	---	---	Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch38+11n(a) Tx(40M)_Ch44
 Data Rate: 13.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	1500.000	48.61	-25.39	74.00	54.23	25.30	2.79	33.70	100	0 Peak
2	1500.000	37.14	-36.86	74.00	42.76	25.30	2.79	33.70	100	245 Average
3 !	5150.000	71.17	-2.83	74.00	66.03	33.38	6.00	34.24	100	0 Peak
4 !	5150.000	52.88	-1.12	54.00	47.74	33.38	6.00	34.24	100	352 Average
5 X	5190.000	110.53			105.34	33.42	6.00	34.23	100	0 Peak
6 X	5190.000	98.72			93.53	33.42	6.00	34.23	100	352 Average
7 X	5220.000	113.75			108.53	33.44	6.00	34.22	100	0 Peak
8 @	5220.000	101.27			96.03	33.46	6.00	34.22	100	19 Average
9 !	5250.000	53.63	-0.37	54.00	48.32	33.50	6.00	34.19	100	19 Average
10 !	5250.000	73.59	-0.41	74.00	68.28	33.50	6.00	34.19	100	0 Peak
11	5558.000	61.09	-12.91	74.00	55.33	33.83	6.01	34.09	100	0 Peak
12 !	5558.000	50.08	-3.92	54.00	44.32	33.83	6.01	34.09	100	29 Average
13	8692.000	55.14	-18.86	74.00	44.87	37.72	7.11	34.56	100	0 Peak
14	8692.000	44.79	-9.21	54.00	34.52	37.72	7.11	34.56	100	114 Average

※Remark: #5, #6, and #7 Fundamental Signal
 Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

E.I.R.P. Power

Frequency (MHz)	Field Strength (dBuV/m)	EIRP (dBm)	Over Limit (dB)	Limit (EIPR dBm)
5150.00 MHz	57.76 dBuV/m	-42.24	-15.24	-27.00
5250.00 MHz	58.42 dBuV/m	-41.58	-14.58	-27.00
5150.00 MHz	51.32 dBuV/m	-48.68	-21.68	-27.00
5250.00 MHz	57.92 dBuV/m	-42.08	-15.08	-27.00
5150.00 MHz	65.02 dBuV/m	-34.98	-7.98	-27.00
5250.00 MHz	73.26 dBuV/m	-26.74	0.26	-27.00

Remark: $EIRP = 10 * \log\left(\frac{10^{(Field\ Strength - 120)/20} * distance^2}{30 * 10^{(Antenna\ Gain/10)}}\right) / 0.001$

5.7 Band Edges Measurement

5.7.1 Measuring Instruments :

As described in chapter 6 of this test report.

5.7.2 Test Procedure :

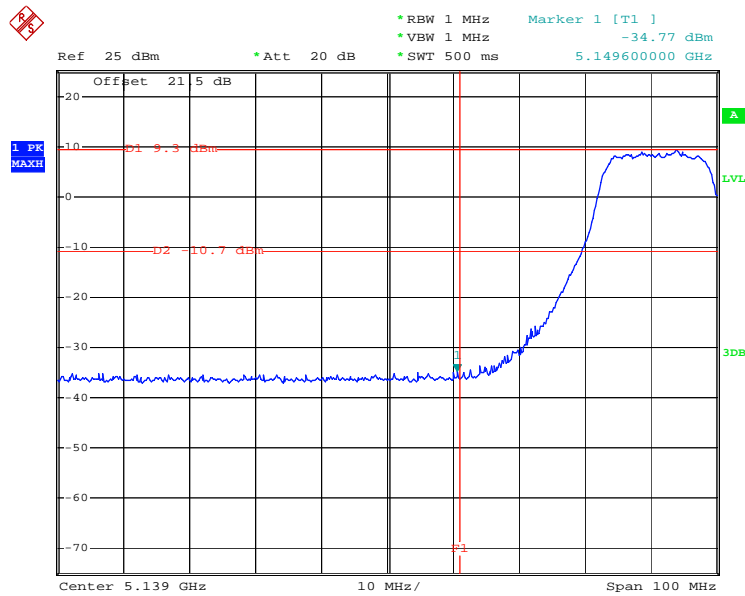
1. Set both RBW and VBW of spectrum analyzer to 1MHz with convenient frequency span including 1MHz bandwidth from band edge.
2. The band edges was measured and recorded.

5.7.3 Test Result :

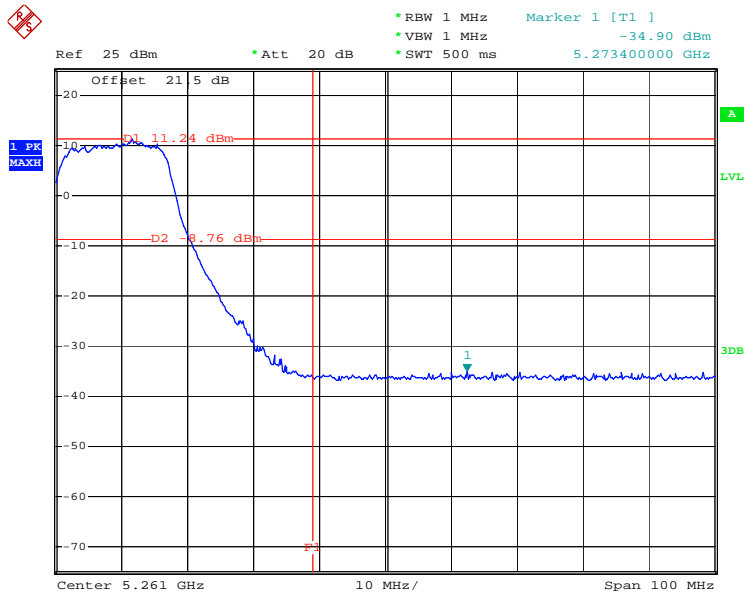
- Temperature : 26~27°C
- Relative Humidity :49~50%

Test Result Mode		Verdict
Test Result for 802.11a	:	PASS

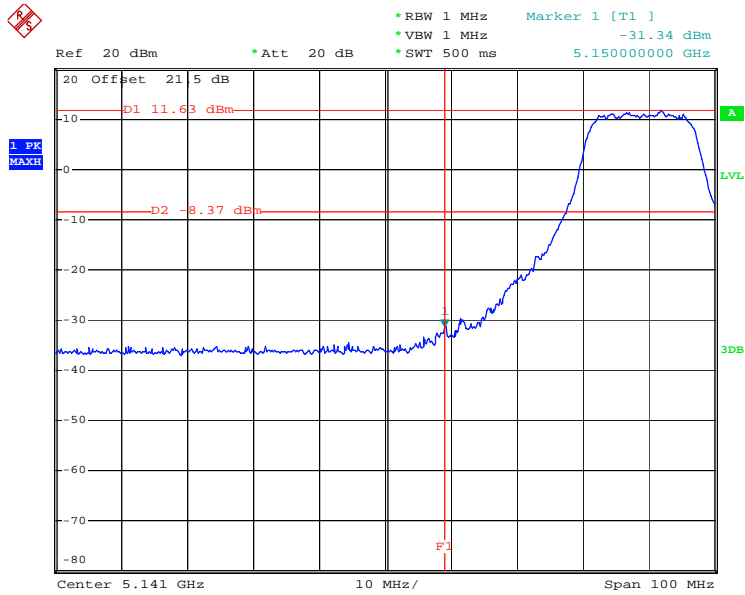
5.7.4 Test Data



Date: 5.OCT.2007 00:19:10 802.11a CH36

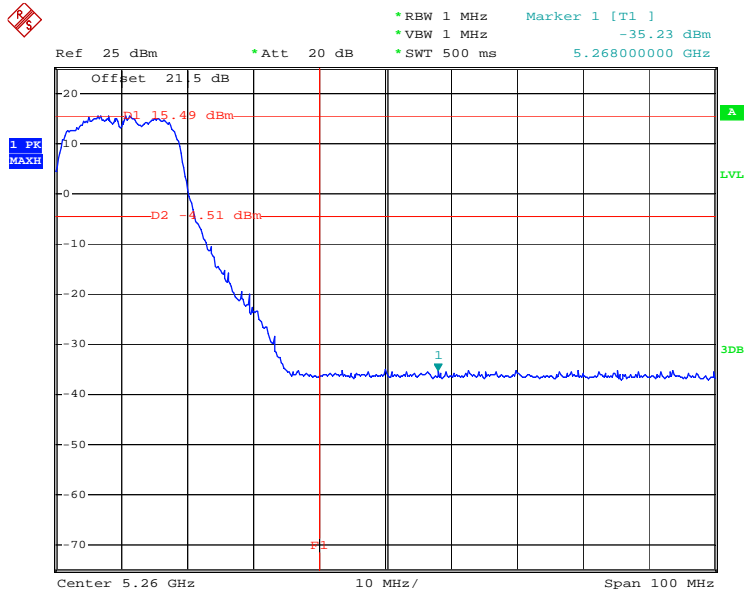


Date: 5.OCT.2007 00:16:45 802.11a CH44

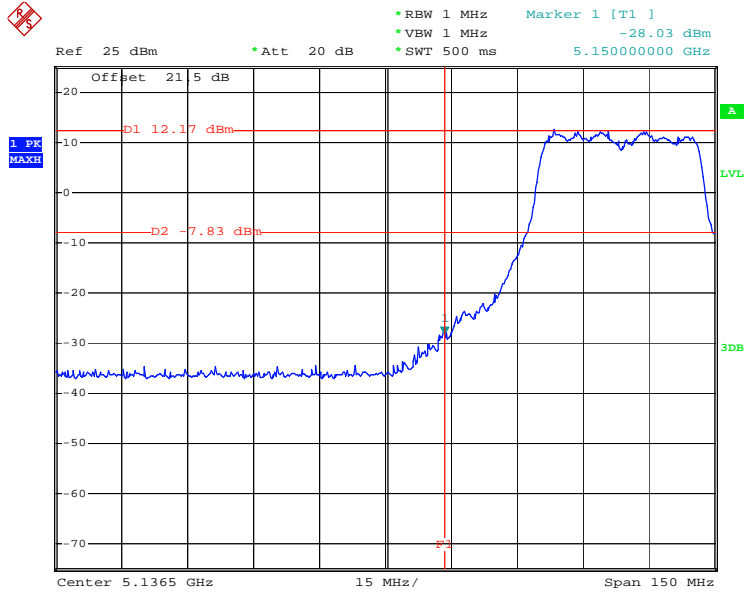


802.11n 20M CH36

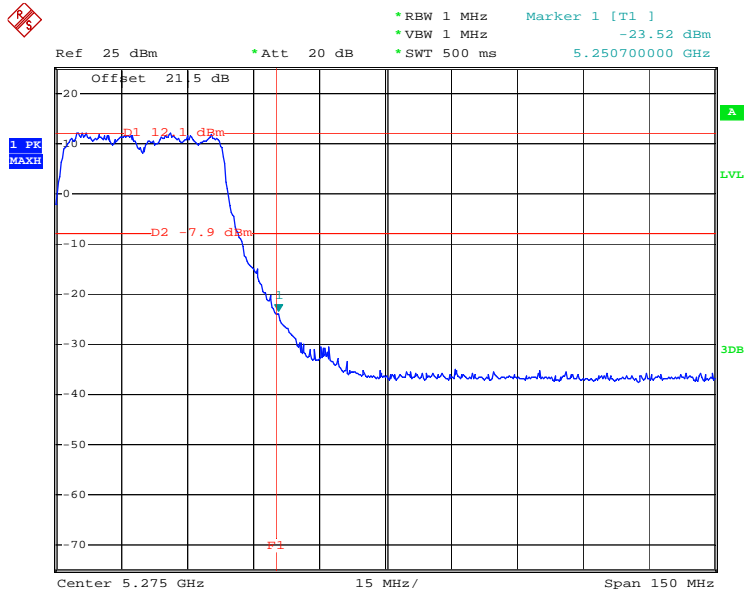
Date: 2.OCT.2007 21:42:16



Date: 4.OCT.2007 21:06:18 802.11n 20M CH44



Date: 1.OCT.2007 22:03:58 802.11n 40M CH38



Date: 4.OCT.2007 20:24:37 802.11n 40M CH44

5.8 Peak Excursion Ratio Measurement

5.8.1 Measuring Instruments :

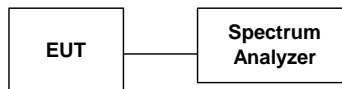
As described in chapter 6 of this test report.

5.8.2 Test Procedure :

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to and maintained at 1 MHz. The video bandwidth is set to 3 MHz. Trace A is set peak detector and to Max Hold, then to View. Then the detector is readjusted to sample detector, max hold to run for 60 seconds, and the signal under this measurement condition is captured in Trace B in Accordance with the method 3 of DA-02-2138.

The difference between the traces is investigated. The marker is placed at the frequency which shows the largest difference. The amplitude delta between the traces at this frequency is the peak excursion.

5.8.3 Test Setup Layout :



5.8.4 Test Result :

- Temperature : 26~27°C
- Relative Humidity :49~50%

➤ 802.11a Normal mode

Channel	Frequency (MHz)	Peak Excursion (dB)	Limits (dB)	Mode Ref. No.
36	5180	-1269	13	1
40	5200	-12.62	13	2
44	5220	-12.66	13	3

➤ 802.11n(a) 20M mode

Channel	Frequency (MHz)	Peak Excursion (dB)	Limits (dB)	Mode Ref. No.
36	5180	-12.48	13	4
40	5200	-11.87	13	5
44	5220	-11.80	13	6

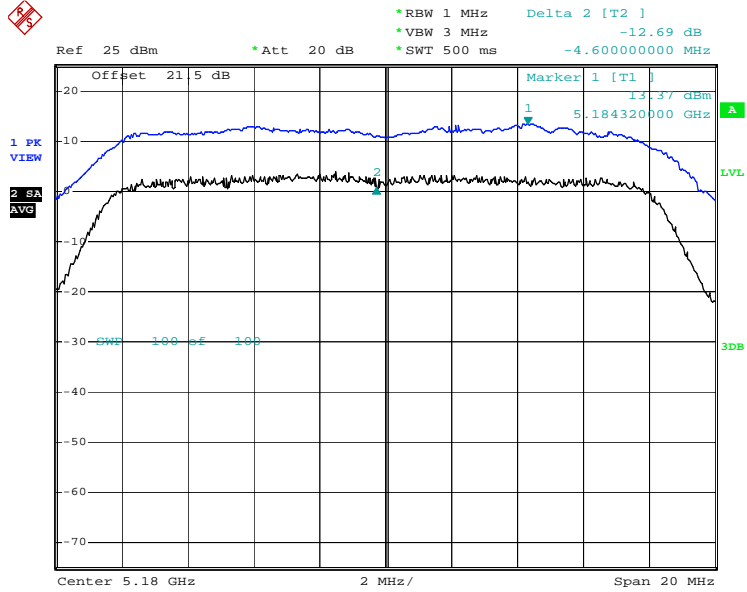
➤ 802.11n(a) 40M mode

Channel	Frequency (MHz)	Peak Excursion (dBm)	Limits (dBm)	Mode Ref. No.
38	5190	-12.50	13	7
44	5220	-12.49	13	8

5.8.5 Test Data

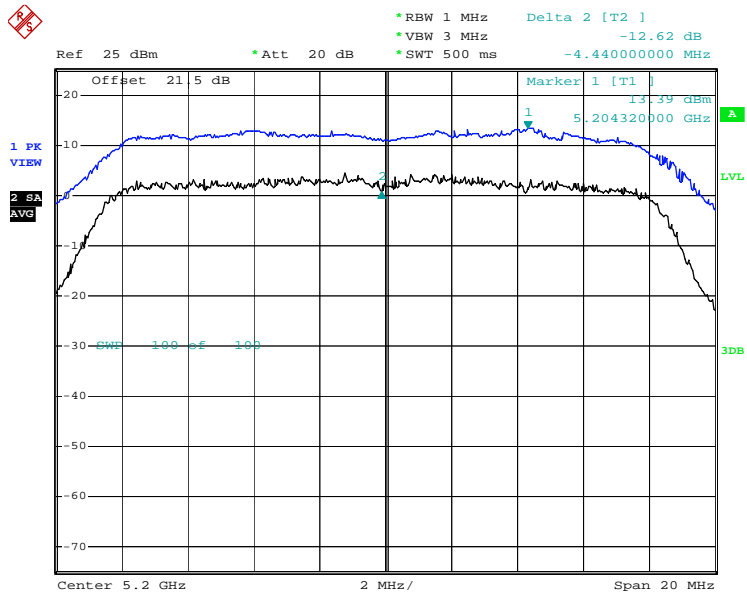
Mode Ref. No.

1

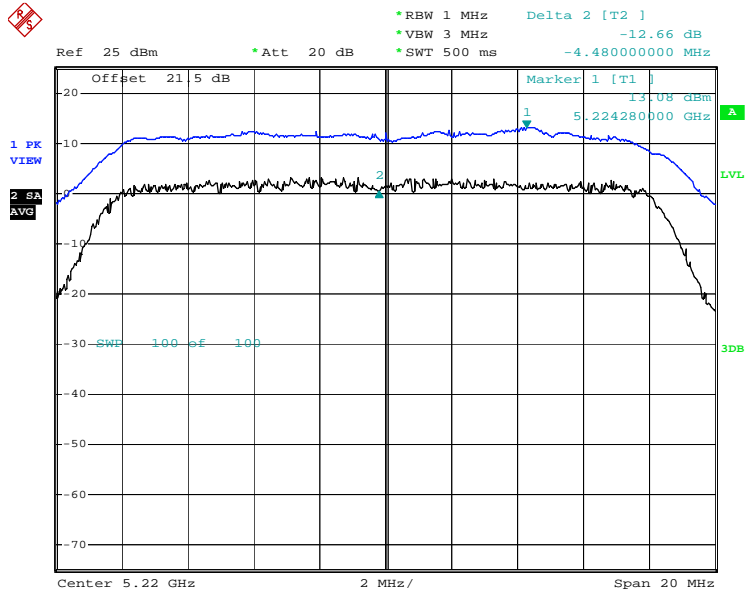


Date: 5.OCT.2007 00:30:27

2



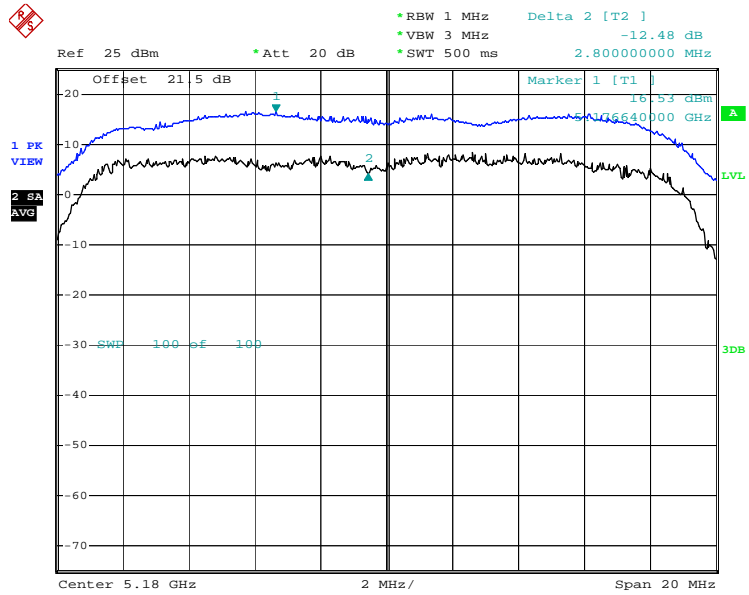
Date: 5.OCT.2007 00:35:25



3

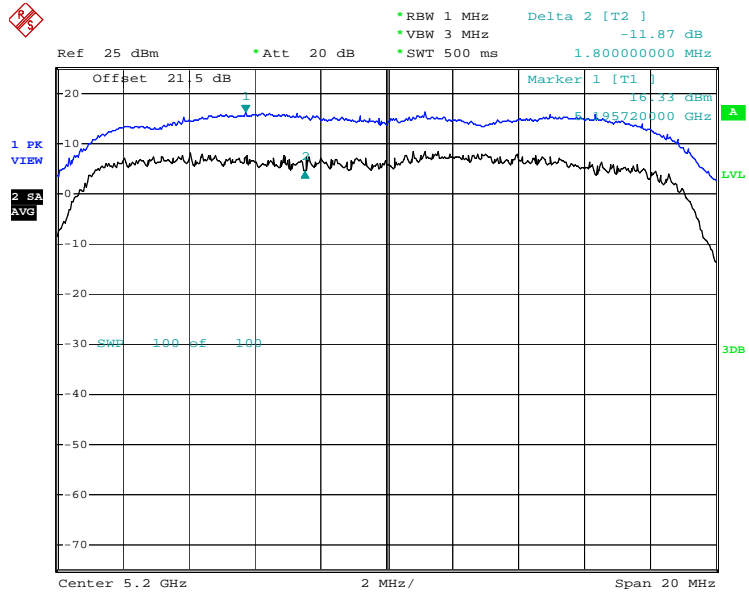
Date: 5.OCT.2007 00:39:40

4

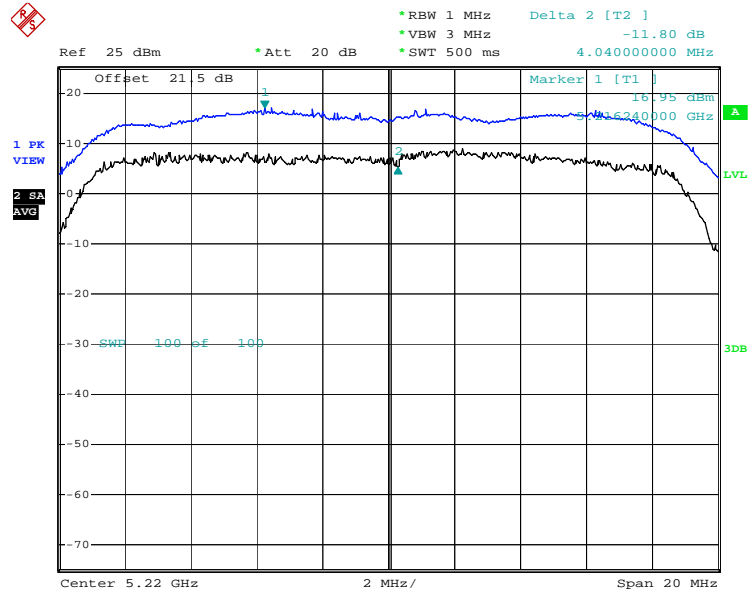


Date: 4.OCT.2007 21:10:48

5



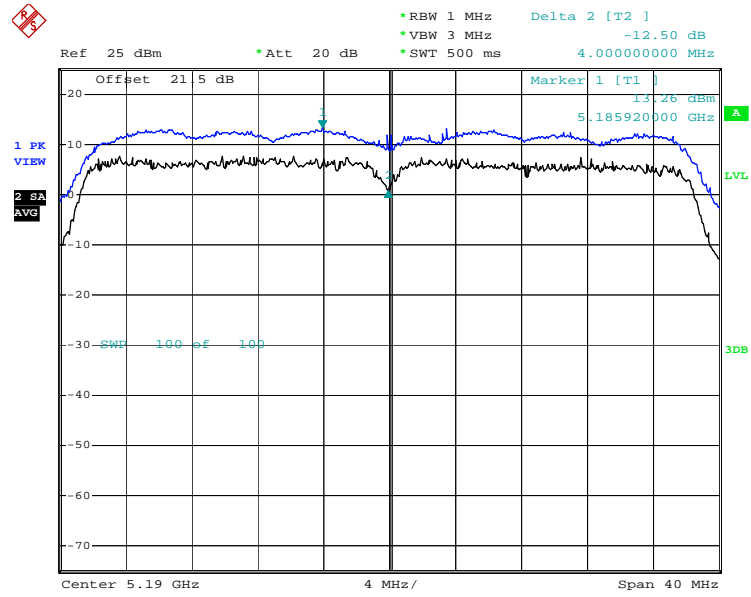
Date: 4.OCT.2007 21:14:34



6

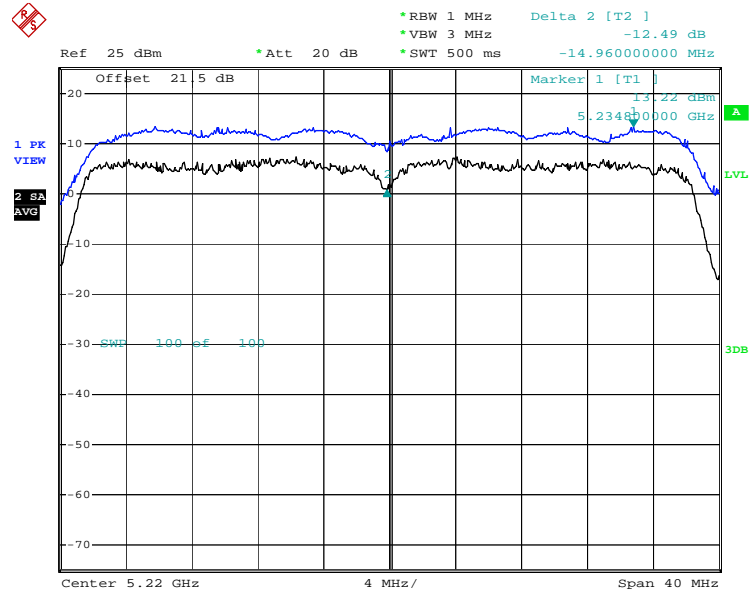
Date: 4.OCT.2007 21:27:20

7



Date: 4.OCT.2007 20:54:17

8



Date: 4.OCT.2007 20:49:00

5.9 Frequency Stability

To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.

The EUT was operated at the maximum output power, and connected to the spectrum analyzer which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

Normal mode

Frequency(MHz)	Low Frequency (Fl)	High Frequency (Fh)	Center Frequency (Fc)	Frequency Stability (ppm)
5180	5170.32	5188.96	5179.64	-0.36
5200	5190.92	5209.1	5200.01	0.01
5220	5210.64	5229.01	5219.825	-0.17

11n(a) 20M mode

Frequency(MHz)	Low Frequency (Fl)	High Frequency (Fh)	Center Frequency (Fc)	Frequency Stability (ppm)
5180	5170.56	5189.24	5179.9	-0.10
5200	5190.56	5209.16	5199.86	-20.14
5220	5210.52	5229.24	5219.88	39.88

11n(a) 40M mode

Frequency(MHz)	Low Frequency (Fl)	High Frequency (Fh)	Center Frequency (Fc)	Frequency Stability (ppm)
5190	5171.36	5208.56	5189.96	-0.04
5220	5201.2	5238.64	5219.92	-10.08

5.10 Automatically discontinue transmission

During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving .The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission .

5.11 Antenna Requirements

The EUT meets antenna requirement of FCC for the following reasons.

5.11.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2), if transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

5.11.2 Antenna Connected Construction

The antenna type used in this product is dipole for WLAN. The connector is reverse SMA on antenna port and it is considered to meet antenna requirement of FCC.

5 List of Measuring Equipments Used

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMC Receiver	R&S	ESCS 30	100359	9kHz – 2.75GHz	Mar. 01, 2007	Feb. 29, 2008	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 31, 2007	Mar. 30, 2008	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Mar. 22, 2007	Mar. 21, 2008	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2007	Apr. 19, 2008	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN T400	21653	9kHz –30MHz	Mar. 09, 2007	Mar. 08, 2008	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	N/A	Conduction (CO04-HY)
Isolation Transformer	Erika Fiedler OHG	D-65396 Walluf	58	45MHz-2.15GHz	N/A	N/A	Conduction (CO04-HY)
Power Divider	Woken	N/A	0120A04208001S	2GHz~8GHz	N/A	N/A	Conduction (CO04-HY)
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH04-HY	30 MHz - 1 GHz 3m	Oct. 30, 2006	Oct. 29, 2007	Radiation (03CH04-HY)
Amplifier	Schaffner	CPA9231A	3564	9 kHz - 2 GHz	Aug.31, 2007	Aug.30, 2008	Radiation (03CH04-HY)
Amplifier	Agilent	8449B	3008A01917	1~26.5GHz	Nov. 15, 2007	Nov. 14, 2007	Radiation (03CH04-HY)
Spectrum Analyzer	R&S	FSP40	100055	9KHz~40GHz	June. 25, 2006	June. 24, 2008	Radiation (03CH04-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2724	30 MHz - 1 GHz	Aug. 13, 2007	Aug. 12, 2008	Radiation (03CH04-HY)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	9170-249	14G~40G	Nov. 20, 2006	Nov. 19, 2008	Radiation (03CH04-HY)
Turn Table	HD	Deis HD 2000	420/610	0 - 360 degree	N/A	N/A	Radiation (03CH04-HY)
Antenna Mast	Chaintek	3000	N/A	1 m - 4 m	N/A	N/A	Radiation (03CH04-HY)

6 Uncertainty of Test Site

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.10	Normal(k=2)	0.05
Cable loss	0.10	Normal(k=2)	0.05
AMN insertion loss	2.50	Rectangular	0.63
Receiver Spec	1.50	Rectangular	0.43
Site imperfection	1.39	Rectangular	0.80
Mismatch	+0.34/-0.35	U-shape	0.24
Combined standard uncertainty Uc(y)	1.13		
Measuring uncertainty for a level of Confidence of 95% U=2Uc(y)	2.26		

Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.41	Normal(k=2)	0.21
Antenna factor calibration	0.83	Normal(k=2)	0.42
Cable loss calibration	0.25	Normal(k=2)	0.13
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.43	Rectangular	0.83
Mismatch	+0.39/-0.41	U-shaped	0.28
Combined standard uncertainty Uc(y)	1.27		
Measuring uncertainty for a level of Confidence of 95% U=2Uc(y)	2.54		

Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Contribution	Uncertainty of x_i		$u(x_i)$	C_i	$C_i * u(x_i)$
	dB	Probability Distribution			
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20 \log(1 - \Gamma_1 * \Gamma_2 * \Gamma_3)$	+0.34/-0.35	U-shaped	0.244	1	0.244
Combined standard uncertainty Uc(y)	2.36				
Measuring uncertainty for a level of Confidence of 95% U=2Uc(y)	4.72				