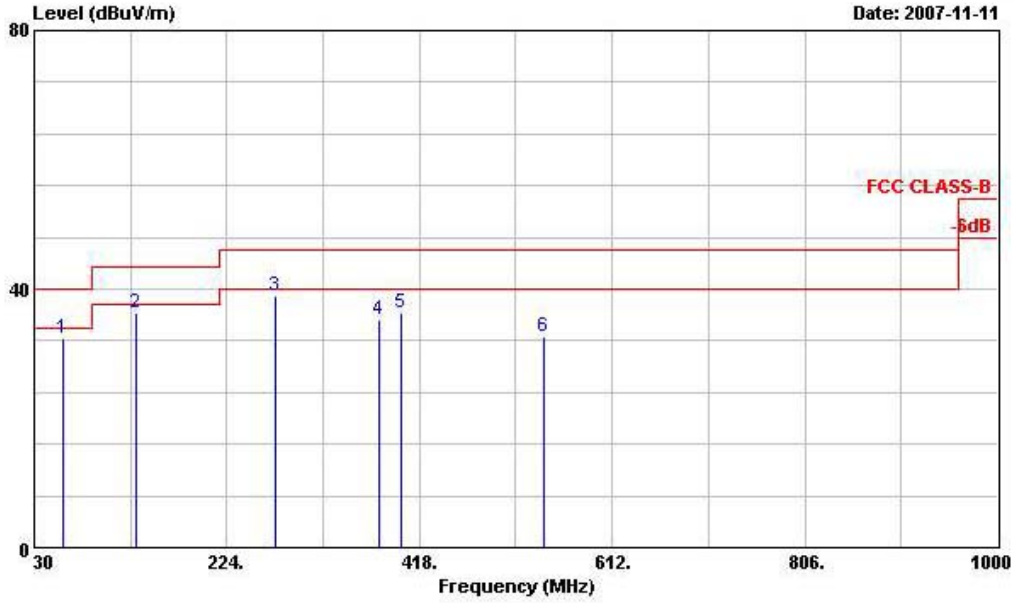
- Polarization : Vertical

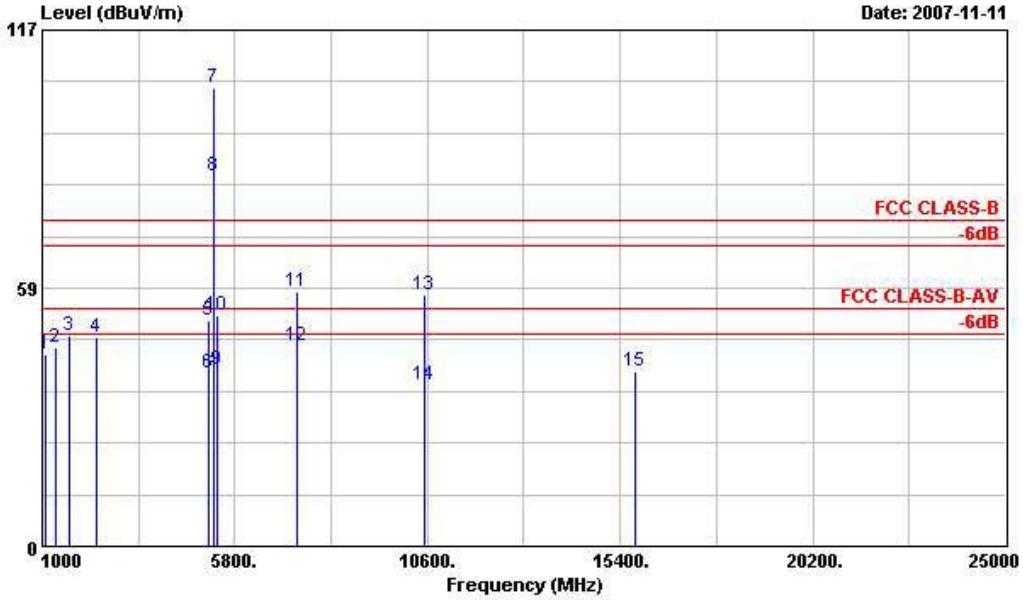
■ The test that passed at minimum margin was marked by the boldface in the following table.




```
Site      :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT       :N/B
POWER     :120Vac/60Hz
MODEL     :FR 701819
MEMO      :11n(a) Tx(20M)_CH52;5260MHz
Data Rate:48
```

	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	58.890	32.36	-7.64	40.00	55.78	3.76	1.10	28.28	---	---	Peak
2	132.060	36.42	-7.08	43.50	51.65	11.28	1.56	28.07	---	---	Peak
3	272.730	38.99	-7.01	46.00	52.05	12.45	2.14	27.66	100	126	Peak
4	377.700	35.23	-10.77	46.00	45.89	14.98	2.50	28.14	---	---	Peak
5	399.400	36.22	-9.78	46.00	46.19	15.75	2.57	28.29	---	---	Peak
6	542.900	32.56	-13.44	46.00	40.44	18.19	2.97	29.04	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



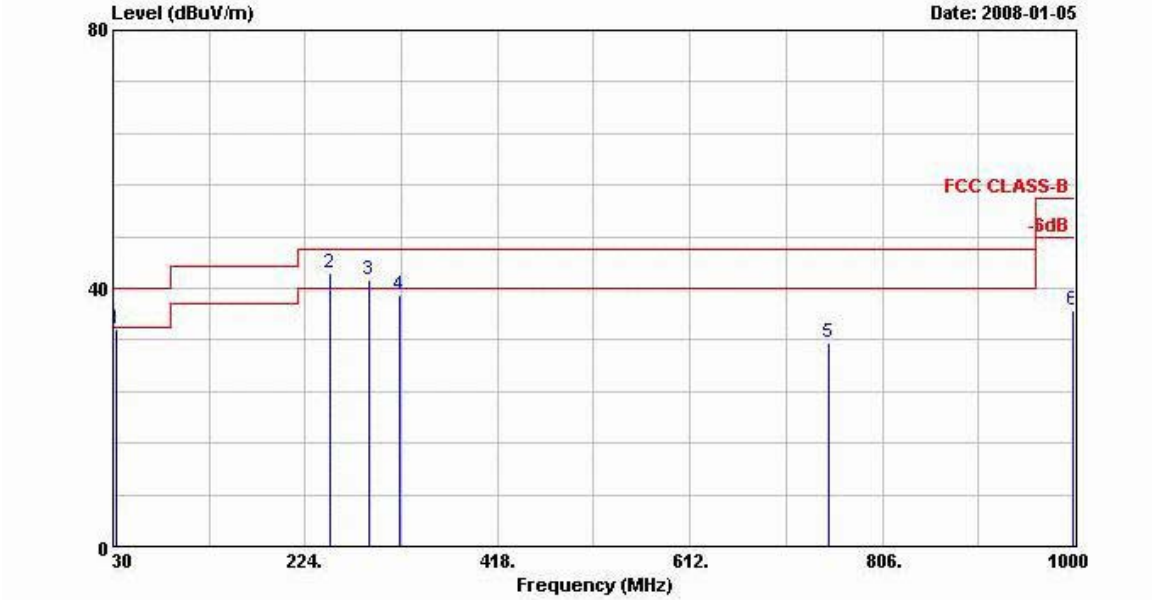
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :11n(a) Tx(20M)_CH52;5260MHz
Data Rate:48

		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		1078.000	43.39	-30.61	74.00	49.91	25.46	2.31	34.30	100	0	Peak
2		1332.000	44.97	-29.03	74.00	49.77	26.55	2.60	33.95	100	0	Peak
3		1662.000	47.71	-26.29	74.00	49.97	28.47	2.97	33.70	100	0	Peak
4		2334.000	47.48	-26.52	74.00	47.02	30.54	3.69	33.77	100	0	Peak
5		5150.000	51.32	-22.68	74.00	44.28	35.28	6.00	34.24	100	0	Peak
6		5150.000	39.26	-14.74	54.00	32.22	35.28	6.00	34.24	130	41	Average
7	X	5260.000	103.92			96.69	35.42	6.00	34.19	100	0	Peak
8	X	5260.000	83.87			76.64	35.42	6.00	34.19	130	41	Average
9		5350.000	40.10	-13.90	54.00	32.73	35.52	6.00	34.15	130	41	Average
10		5350.000	52.21	-21.79	74.00	44.84	35.52	6.00	34.15	100	0	Peak
11		7340.000	57.78	-16.22	74.00	45.36	39.34	6.49	33.41	100	0	Peak
12		7340.000	45.31	-8.69	54.00	32.89	39.34	6.49	33.41	100	115	Average
13		10518.000	56.78	-17.22	74.00	91.97	-8.49	7.80	34.50	100	0	Peak
14		10518.000	36.45	-17.55	54.00	71.64	-8.49	7.80	34.50	100	47	Average
15		15786.000	39.67	-34.33	74.00	71.03	-5.37	8.74	34.73	100	0	Peak

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

- Test Mode : Mode 11
- Polarization : Horizontal

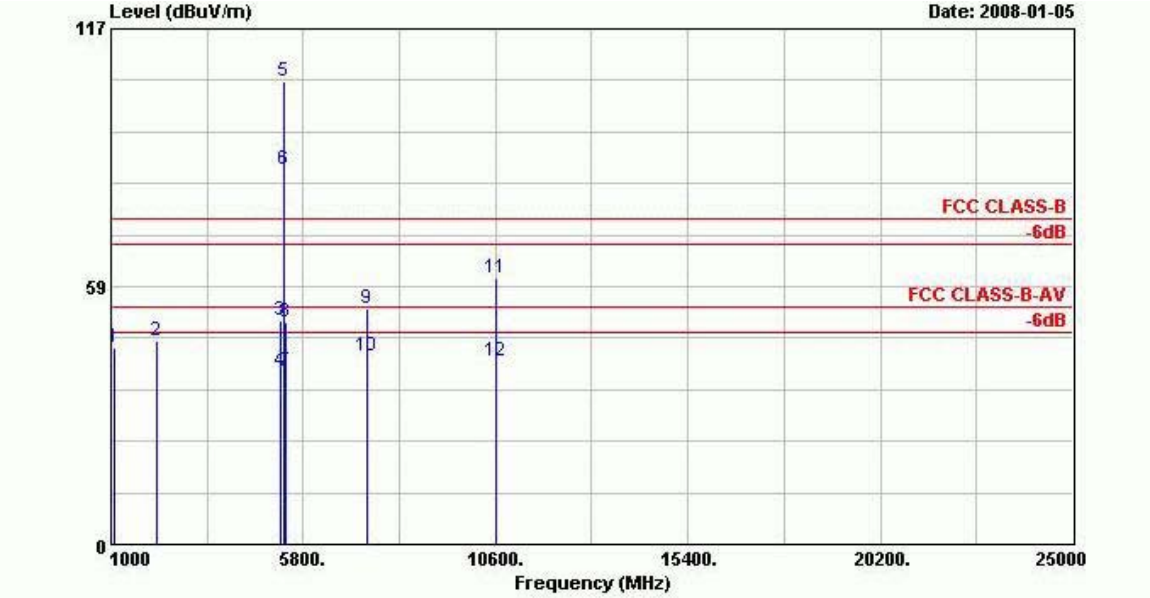
■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 7O1819
MEMO : 11n(a) Tx(20M)_CH60;5300MHz
Data Rate: 48

		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		34.050	33.65	-6.35	40.00	44.70	16.31	0.91	28.26	---	---	Peak
2	@	248.970	42.32	-3.68	46.00	55.48	12.50	2.05	27.70	100	215	Peak
3	!	288.660	41.44	-4.56	46.00	54.50	12.37	2.20	27.62	---	---	Peak
4		318.900	38.89	-7.11	46.00	51.34	12.98	2.30	27.73	---	---	Peak
5		752.200	31.54	-14.46	46.00	36.99	19.99	3.56	29.00	---	---	Peak
6		998.600	36.70	-17.30	54.00	35.28	26.03	4.00	28.60	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



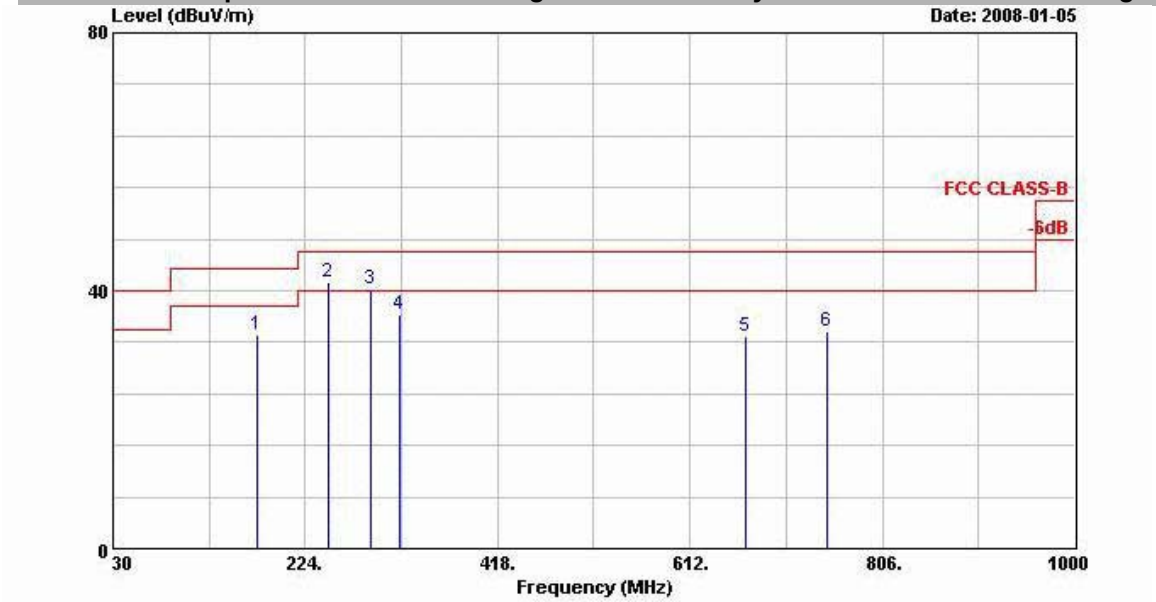
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :11n(a) Tx(20M)_CH60;5300MHz
Data Rate:48

		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		1070.000	44.65	-29.35	74.00	48.28	28.36	2.31	34.30	100	0	Peak
2		2124.000	46.00	-28.00	74.00	43.89	32.37	3.46	33.73	100	0	Peak
3		5250.000	50.98	-23.02	74.00	44.22	34.95	6.00	34.19	100	0	Peak
4		5250.000	39.09	-14.91	54.00	32.33	34.95	6.00	34.19	100	312	Average
5	@	5300.000	105.05			98.24	34.98	6.00	34.17	100	0	Peak
6	@	5300.000	84.88			78.07	34.98	6.00	34.17	100	312	Average
7		5350.000	39.14	-14.86	54.00	32.28	35.01	6.00	34.15	100	312	Average
8		5350.000	50.54	-23.46	74.00	43.68	35.01	6.00	34.15	100	0	Peak
9		7412.000	53.39	-20.61	74.00	44.41	36.00	6.52	33.54	100	0	Peak
10		7412.000	42.87	-11.13	54.00	33.89	36.00	6.52	33.54	100	108	Average
11		10602.000	60.24	-13.76	74.00	95.33	-8.46	7.80	34.44	100	0	Peak
12		10602.000	41.38	-12.62	54.00	76.47	-8.46	7.80	34.44	100	98	Average

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

- Polarization : Vertical

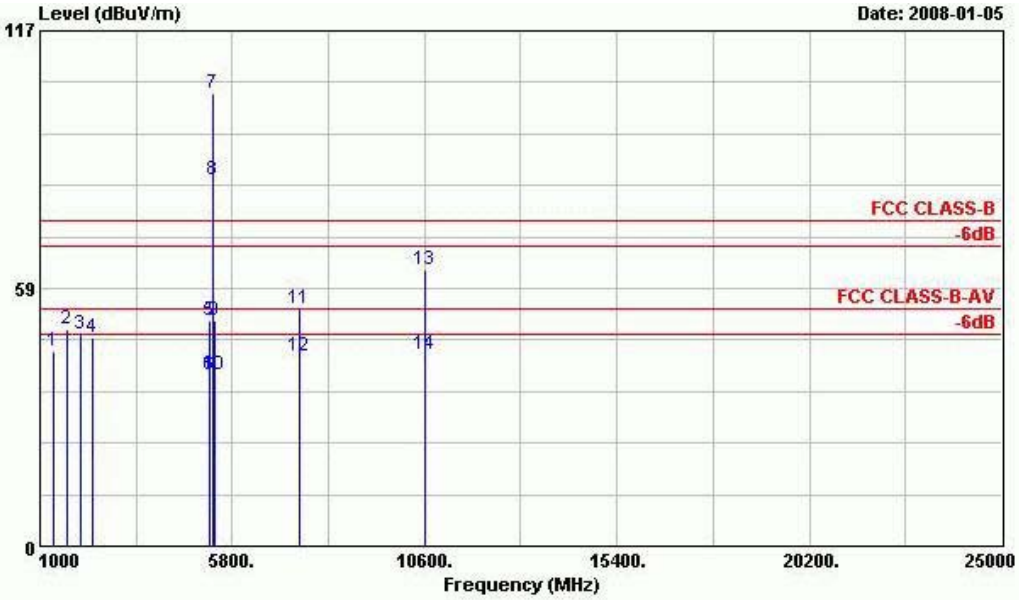
■ **The test that passed at minimum margin was marked by the boldface in the following table.**



Site :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(20M)_CH60;5300MHz
Data Rate:48

	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	175.530	33.03	-10.47	43.50	50.68	8.49	1.76	27.90	---	---	Peak
2 !	247.620	41.42	-4.58	46.00	54.74	12.35	2.04	27.70	100	184	Peak
3 !	289.740	40.29	-5.71	46.00	53.35	12.36	2.20	27.62	---	---	Peak
4	318.900	36.44	-9.56	46.00	48.89	12.98	2.30	27.73	---	---	Peak
5	668.200	32.99	-13.01	46.00	38.58	20.06	3.45	29.10	---	---	Peak
6	750.100	33.76	-12.24	46.00	39.20	20.00	3.56	29.00	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



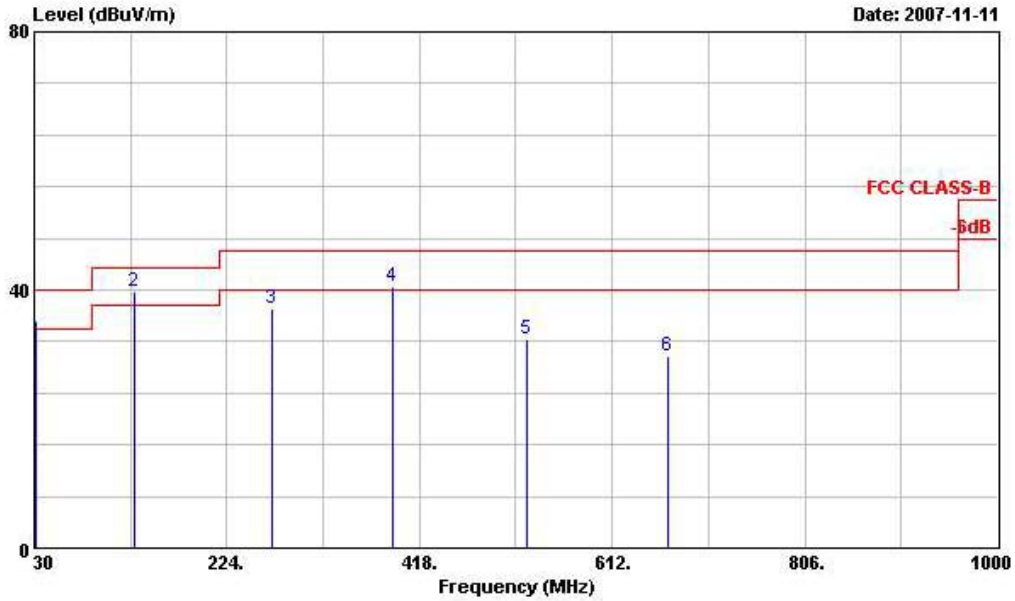
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-3117 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :11n(a) Tx(20M)_CH60;5300MHz
Data Rate:48

	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	1332.000	44.14	-29.86	74.00	46.91	28.58	2.60	33.95	100	0	Peak
2	1668.000	49.38	-24.62	74.00	50.21	29.90	2.97	33.70	100	0	Peak
3	1998.000	47.96	-26.04	74.00	46.02	32.30	3.34	33.70	100	0	Peak
4	2332.000	47.39	-26.61	74.00	44.97	32.50	3.69	33.77	100	0	Peak
5	5250.000	51.12	-22.88	74.00	44.36	34.95	6.00	34.19	100	0	Peak
6	5250.000	38.79	-15.21	54.00	32.03	34.95	6.00	34.19	100	63	Average
7 @	5300.000	102.70			95.89	34.98	6.00	34.17	100	0	Peak
8 @	5300.000	83.25			76.44	34.98	6.00	34.17	100	63	Average
9	5350.000	51.32	-22.68	74.00	44.46	35.01	6.00	34.15	100	0	Peak
10	5350.000	38.93	-15.07	54.00	32.07	35.01	6.00	34.15	100	63	Average
11	7470.000	53.82	-20.18	74.00	45.00	36.00	6.55	33.74	100	0	Peak
12	7470.000	43.01	-10.99	54.00	34.19	36.00	6.55	33.74	100	123	Average
13	10602.000	62.59	-11.41	74.00	97.68	-8.46	7.80	34.44	100	0	Peak
14	10602.000	43.65	-10.35	54.00	78.74	-8.46	7.80	34.44	100	124	Average

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

- Test Mode : Mode 12
- Polarization : Horizontal

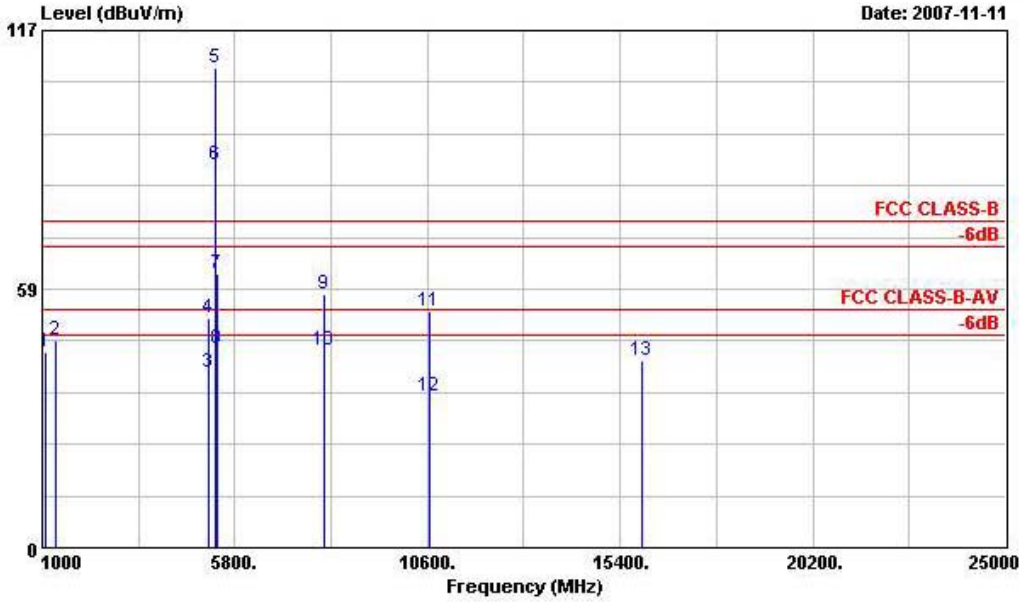
■ The test that passed at minimum margin was marked by the boldface in the following table.



Site :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 7O1819
MEMO :11n(a) Tx(20M)_CH64;5320MHz
Data Rate:48

	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 !	31.890	35.27	-4.73	40.00	46.30	16.34	0.89	28.26	---	---	Peak
2 @	131.250	39.85	-3.65	43.50	54.99	11.37	1.56	28.08	100	133	Peak
3	269.490	37.13	-8.87	46.00	50.20	12.47	2.13	27.66	---	---	Peak
4 !	391.000	40.48	-5.52	46.00	50.72	15.45	2.54	28.24	---	---	Peak
5	526.100	32.39	-13.61	46.00	40.84	17.66	2.91	29.03	---	---	Peak
6	668.200	29.72	-16.28	46.00	35.31	20.06	3.45	29.10	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



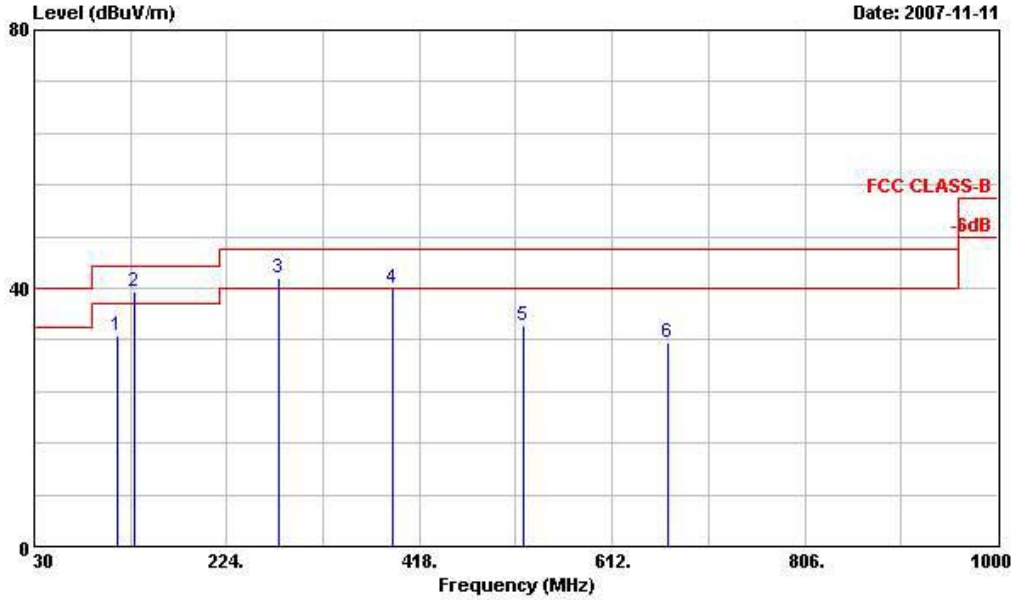
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(20M)_CH64;5320MHz
Data Rate:48

		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		1100.000	44.23	-29.77	74.00	50.62	25.53	2.34	34.26	100	0	Peak
2		1332.000	47.10	-26.90	74.00	51.90	26.55	2.60	33.95	100	0	Peak
3		5150.000	39.59	-14.41	54.00	32.55	35.28	6.00	34.24	100	2	Average
4		5150.000	52.07	-21.93	74.00	45.03	35.28	6.00	34.24	100	0	Peak
5	@	5320.000	108.40			101.09	35.48	6.00	34.17	100	0	Peak
6	@	5320.000	86.51			79.20	35.48	6.00	34.17	100	2	Average
7		5350.000	61.90	-12.10	74.00	54.53	35.52	6.00	34.15	100	0	Peak
8		5350.000	44.96	-9.04	54.00	37.59	35.52	6.00	34.15	100	2	Average
9		8046.000	57.22	-16.78	74.00	44.58	39.50	6.78	33.64	100	0	Peak
10		8046.000	44.57	-9.43	54.00	31.93	39.50	6.78	33.64	100	132	Average
11		10638.000	53.51	-20.49	74.00	88.57	-8.44	7.80	34.42	100	0	Peak
12		10638.000	34.14	-19.86	54.00	69.20	-8.44	7.80	34.42	100	128	Average
13		15957.000	42.23	-31.77	74.00	72.52	-4.18	8.77	34.88	100	0	Peak

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

- Polarization : Vertical

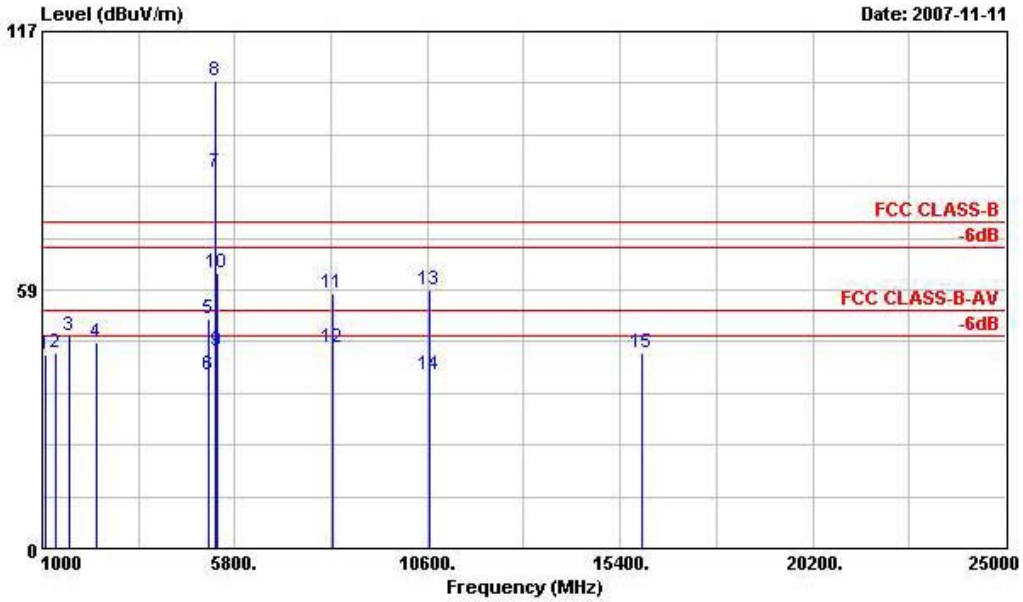
■ The test that passed at minimum margin was marked by the boldface in the following table.




```
Site      :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT       :N/B
POWER     :120Vac/60Hz
MODEL     :FR 701819
MEMO      :11n(a) Tx(20M)_CH64;5320MHz
Data Rate:48
```

		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		113.700	32.58	-10.92	43.50	49.47	9.81	1.44	28.14	---	---	Peak
2	!	131.250	39.46	-4.04	43.50	54.60	11.37	1.56	28.08	100	187	Peak
3	!	275.970	41.62	-4.38	46.00	54.68	12.43	2.15	27.65	---	---	Peak
4	!	391.000	40.03	-5.97	46.00	50.27	15.45	2.54	28.24	---	---	Peak
5		522.600	34.09	-11.91	46.00	42.64	17.58	2.89	29.02	---	---	Peak
6		668.200	31.61	-14.39	46.00	37.20	20.06	3.45	29.10	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



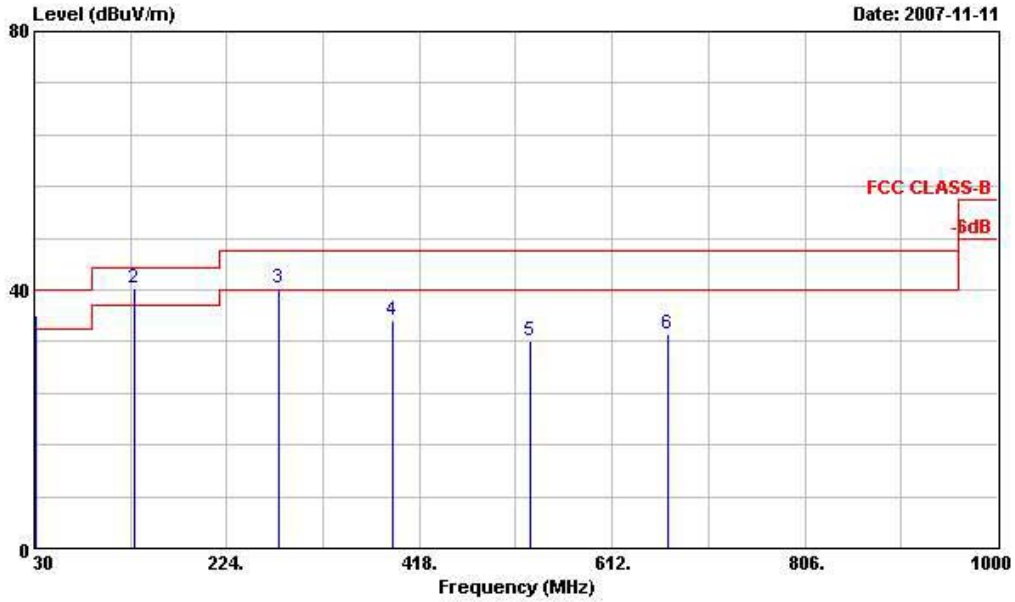
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(20M)_CH64;5320MHz
Data Rate:48

		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		1084.000	43.72	-30.28	74.00	50.22	25.46	2.34	34.30	100	0	Peak
2		1326.000	44.35	-29.65	74.00	49.22	26.48	2.60	33.95	100	0	Peak
3		1668.000	47.94	-26.06	74.00	50.20	28.47	2.97	33.70	100	0	Peak
4		2340.000	46.67	-27.33	74.00	46.23	30.52	3.69	33.77	100	0	Peak
5		5150.000	51.78	-22.22	74.00	44.74	35.28	6.00	34.24	100	0	Peak
6		5150.000	39.24	-14.76	54.00	32.20	35.28	6.00	34.24	112	9	Average
7	@	5320.000	84.89			77.58	35.48	6.00	34.17	112	9	Average
8	@	5320.000	105.87			98.56	35.48	6.00	34.17	100	0	Peak
9		5350.000	44.55	-9.45	54.00	37.18	35.52	6.00	34.15	112	9	Average
10		5350.000	62.31	-11.69	74.00	54.94	35.52	6.00	34.15	100	0	Peak
11		8236.000	57.66	-16.34	74.00	45.25	39.50	6.88	33.98	100	0	Peak
12		8236.000	45.52	-8.48	54.00	33.11	39.50	6.88	33.98	100	114	Average
13		10638.000	58.54	-15.46	74.00	93.60	-8.44	7.80	34.42	100	0	Peak
14		10638.000	39.40	-14.60	54.00	74.46	-8.44	7.80	34.42	100	131	Average
15		15954.000	44.25	-29.75	74.00	74.59	-4.25	8.77	34.86	100	0	Peak

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

- Test Mode : Mode 13
- Polarization : Horizontal

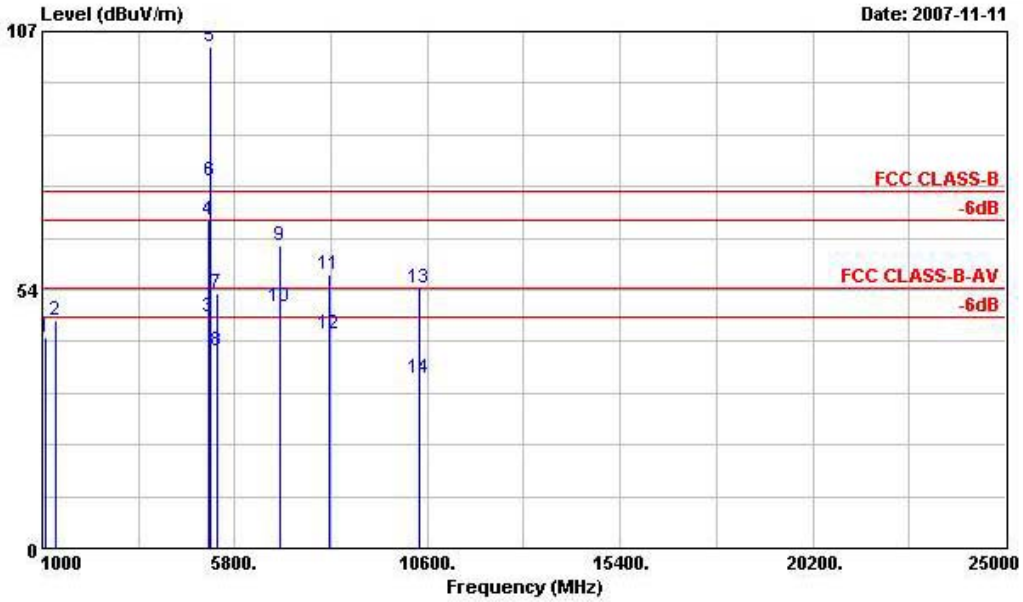
■ The test that passed at minimum margin was marked by the boldface in the following table.




```
Site      :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT       :N/B
POWER     :120Vac/60Hz
MODEL     :FR 7O1819
MEMO      :11n(a) Tx(40M)_CH38;5190MHz
Data Rate:9
```

	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 !	31.890	36.02	-3.98	40.00	47.05	16.34	0.89	28.26	---	---	Peak
2 !	131.250	40.27	-3.23	43.50	55.41	11.37	1.56	28.08	100	197	Peak
3 !	275.970	40.21	-5.79	46.00	53.27	12.43	2.15	27.65	---	---	Peak
4	391.000	35.24	-10.76	46.00	45.48	15.45	2.54	28.24	---	---	Peak
5	528.900	32.14	-13.86	46.00	40.49	17.75	2.92	29.03	---	---	Peak
6	668.200	33.07	-12.93	46.00	38.66	20.06	3.45	29.10	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



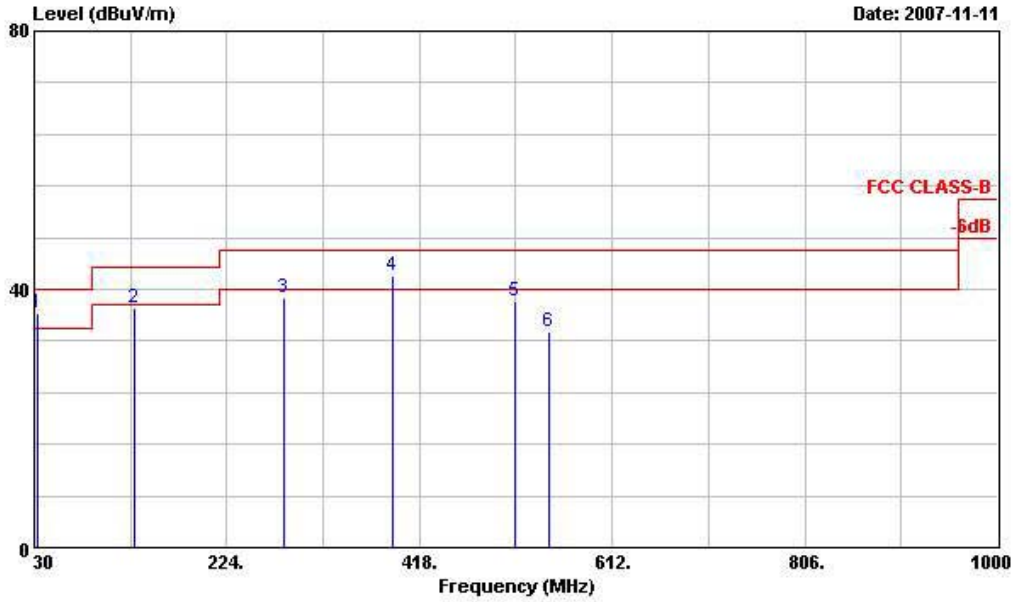
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :11n(a) Tx(40M)_CH38;5190MHz
Data Rate:9

		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		1094.000	43.66	-30.34	74.00	50.05	25.53	2.34	34.26	100	0	Peak
2		1332.000	47.03	-26.97	74.00	51.83	26.55	2.60	33.95	100	0	Peak
3		5150.000	47.83	-6.17	54.00	40.79	35.28	6.00	34.24	112	4	Average
4		5150.000	67.76	-6.24	74.00	60.72	35.28	6.00	34.24	100	0	Peak
5	@	5190.000	103.66			96.57	35.32	6.00	34.23	100	0	Peak
6	X	5190.000	76.01			68.92	35.32	6.00	34.23	112	4	Average
7		5350.000	52.85	-21.15	74.00	45.48	35.52	6.00	34.15	100	0	Peak
8		5350.000	40.67	-13.33	54.00	33.30	35.52	6.00	34.15	112	4	Average
9		6924.000	62.67	-11.33	74.00	50.15	38.75	6.34	32.56	100	0	Peak
10	!	6924.000	50.14	-3.86	54.00	37.62	38.75	6.34	32.56	100	320	Average
11		8150.000	56.82	-17.18	74.00	44.30	39.50	6.83	33.81	100	0	Peak
12		8150.000	44.29	-9.71	54.00	31.77	39.50	6.83	33.81	100	183	Average
13		10376.000	53.76	-20.24	74.00	89.28	-8.69	7.80	34.63	100	0	Peak
14		10376.000	35.12	-18.88	54.00	70.64	-8.69	7.80	34.63	100	32	Average

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

- Polarization : Vertical

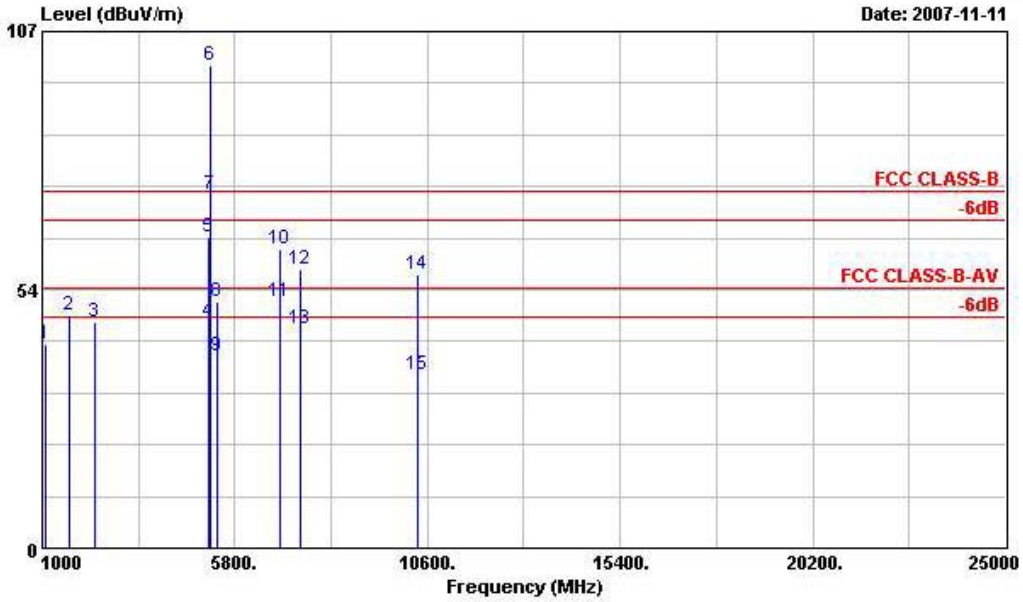
■ The test that passed at minimum margin was marked by the boldface in the following table.




```
Site      :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT       :N/B
POWER     :120Vac/60Hz
MODEL     :FR 701819
MEMO      :11n(a) Tx(40M)_CH38;5190MHz
Data Rate:9
```

		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	!	32.970	36.44	-3.56	40.00	47.48	16.33	0.90	28.26	100	188	Peak
2		131.250	37.13	-6.37	43.50	52.27	11.37	1.56	28.08	---	---	Peak
3		282.180	38.60	-7.40	46.00	51.66	12.40	2.17	27.64	---	---	Peak
4	!	391.000	42.17	-3.83	46.00	52.41	15.45	2.54	28.24	---	---	Peak
5		514.900	38.19	-7.81	46.00	46.99	17.35	2.87	29.01	---	---	Peak
6		547.800	33.43	-12.57	46.00	41.15	18.33	2.99	29.05	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



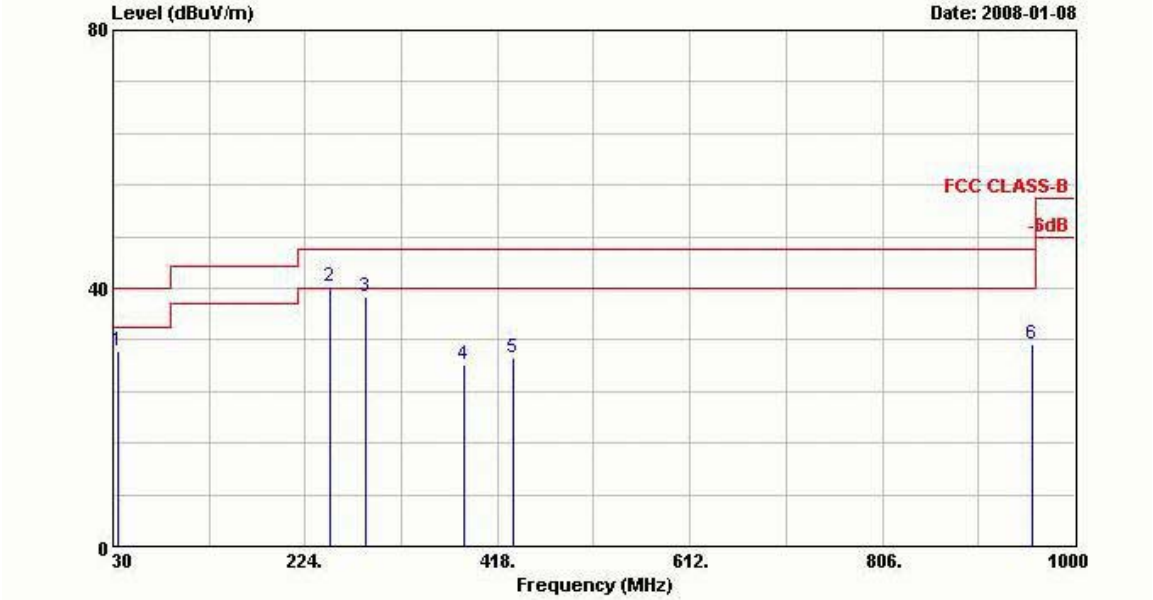
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :11n(a) Tx(40M)_CH38;5190MHz
Data Rate:9

		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		1078.000	42.12	-31.88	74.00	48.64	25.46	2.31	34.30	100	0	Peak
2		1664.000	48.25	-25.75	74.00	50.51	28.47	2.97	33.70	100	0	Peak
3		2326.000	46.67	-27.33	74.00	46.23	30.54	3.66	33.77	100	0	Peak
4		5150.000	46.67	-7.33	54.00	39.63	35.28	6.00	34.24	107	21	Average
5		5150.000	64.37	-9.63	74.00	57.33	35.28	6.00	34.24	100	0	Peak
6	@	5190.000	100.03			92.94	35.32	6.00	34.23	100	0	Peak
7	X	5190.000	73.36			66.27	35.32	6.00	34.23	107	21	Average
8		5350.000	51.14	-22.86	74.00	43.77	35.52	6.00	34.15	100	0	Peak
9		5350.000	39.62	-14.38	54.00	32.25	35.52	6.00	34.15	107	21	Average
10		6924.000	62.12	-11.88	74.00	49.60	38.75	6.34	32.56	100	0	Peak
11	!	6924.000	51.14	-2.86	54.00	38.62	38.75	6.34	32.56	100	155	Average
12		7420.000	57.64	-16.36	74.00	45.34	39.37	6.53	33.61	100	0	Peak
13		7420.000	45.34	-8.66	54.00	33.04	39.37	6.53	33.61	100	278	Average
14		10374.000	56.78	-17.22	74.00	92.32	-8.71	7.80	34.63	100	0	Peak
15		10374.000	35.87	-18.13	54.00	71.41	-8.71	7.80	34.63	100	271	Average

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

- Test Mode : Mode 14
- Polarization : Horizontal

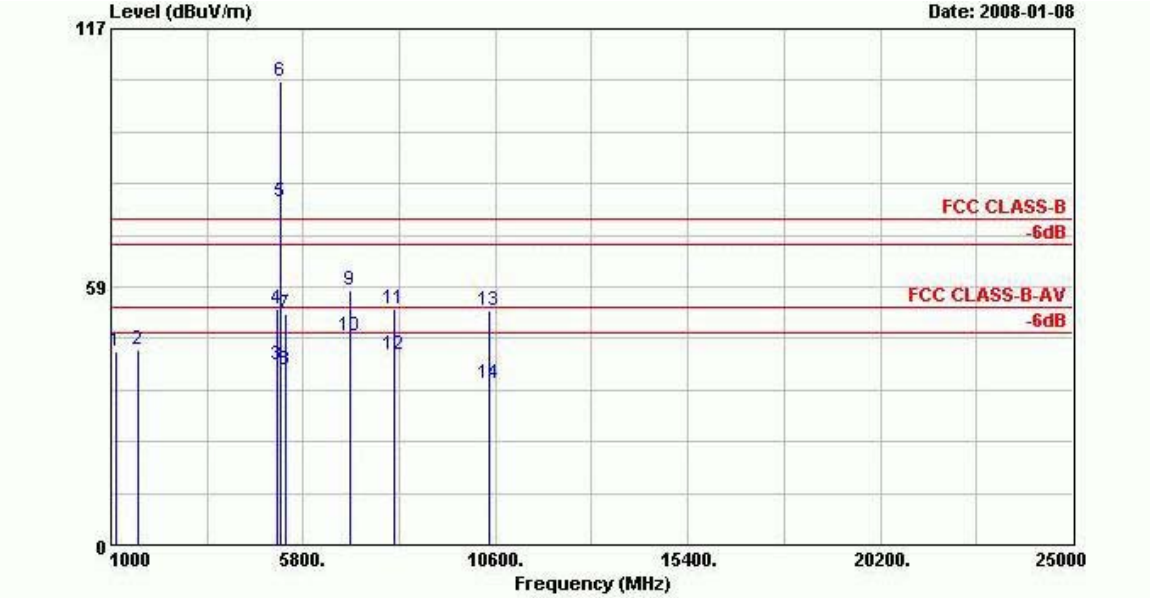
■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 7O1819
MEMO : 11n(a) Tx(40M)_CH46;5230MHz
Data Rate: 9

	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	35.130	30.37	-9.63	40.00	41.65	16.29	0.69	28.26	---	---	Peak
2 !	248.970	40.16	-5.84	46.00	53.53	12.50	1.84	27.70	100	142	Peak
3	284.340	38.77	-7.23	46.00	52.02	12.39	1.99	27.63	---	---	Peak
4	383.300	28.20	-17.80	46.00	38.86	15.18	2.34	28.18	---	---	Peak
5	433.700	29.21	-16.79	46.00	39.11	16.14	2.49	28.54	---	---	Peak
6	957.300	31.36	-14.64	46.00	31.29	24.96	3.79	28.69	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



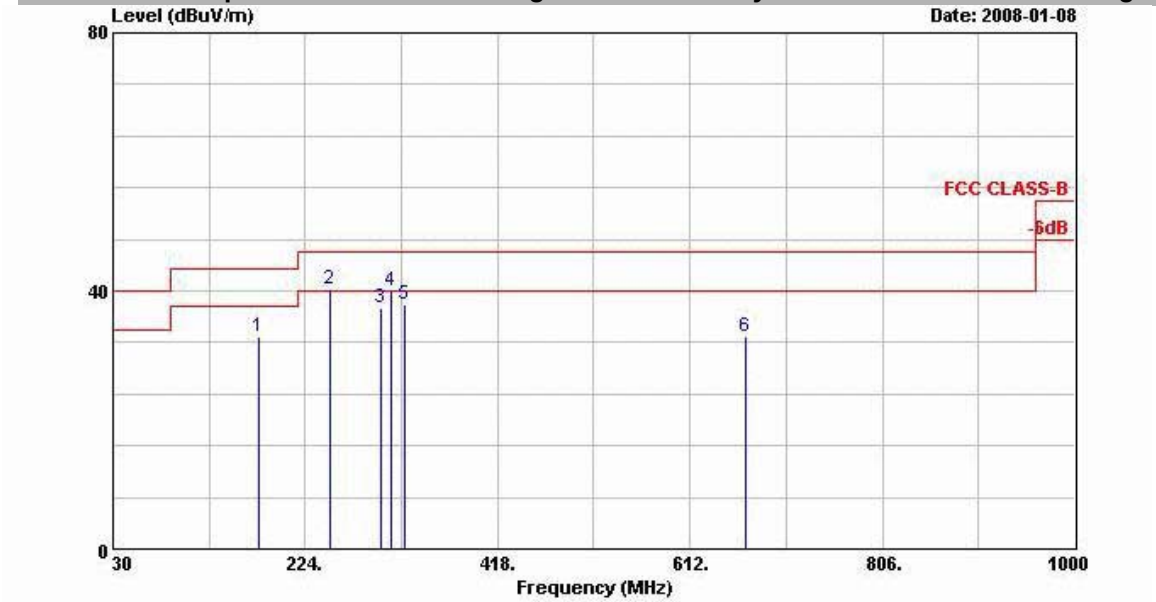
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(40M)_CH46;5230MHz
Data Rate:9

		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		1118.000	44.05	-29.95	74.00	47.52	28.40	2.36	34.23	100	0	Peak
2		1662.000	44.40	-29.60	74.00	45.23	29.90	2.97	33.70	100	0	Peak
3		5150.000	40.84	-13.16	54.00	34.19	34.89	6.00	34.24	107	2	Average
4		5150.000	53.58	-20.42	74.00	46.93	34.89	6.00	34.24	100	0	Peak
5	X	5230.000	77.67			70.94	34.94	6.00	34.21	107	2	Average
6	@	5230.000	105.02			98.29	34.94	6.00	34.21	100	0	Peak
7		5350.000	52.38	-21.62	74.00	45.52	35.01	6.00	34.15	100	0	Peak
8		5350.000	39.54	-14.46	54.00	32.68	35.01	6.00	34.15	107	2	Average
9		6974.000	57.80	-16.20	74.00	47.97	36.00	6.35	32.52	100	0	Peak
10		6974.000	47.31	-6.69	54.00	37.48	36.00	6.35	32.52	100	127	Average
11		8060.000	53.40	-20.60	74.00	44.09	36.21	6.78	33.68	100	0	Peak
12		8060.000	43.08	-10.92	54.00	33.77	36.21	6.78	33.68	100	130	Average
13		10458.000	53.22	-20.78	74.00	88.53	-8.56	7.80	34.55	100	0	Peak
14		10458.000	36.75	-17.25	54.00	72.06	-8.56	7.80	34.55	100	171	Average

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

- Polarization : Vertical

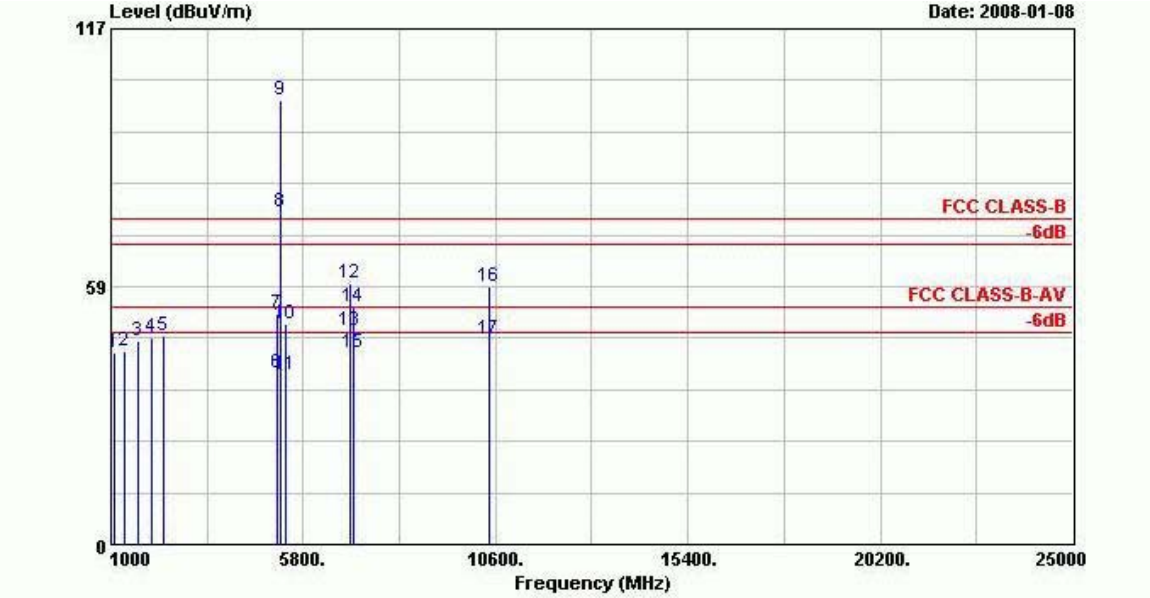
■ The test that passed at minimum margin was marked by the boldface in the following table.



Site :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(40M)_CH46;5230MHz
Data Rate:9

	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	176.340	33.02	-10.48	43.50	50.72	8.61	1.59	27.90	---	---	Peak
2 !	248.970	40.32	-5.68	46.00	53.69	12.50	1.84	27.70	100	174	Peak
3	299.460	37.45	-8.55	46.00	50.69	12.31	2.05	27.60	---	---	Peak
4	310.500	39.92	-6.08	46.00	52.83	12.68	2.09	27.68	---	---	Peak
5	324.500	37.91	-8.09	46.00	50.37	13.18	2.14	27.77	---	---	Peak
6	668.200	33.02	-12.98	46.00	38.89	20.06	3.17	29.10	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



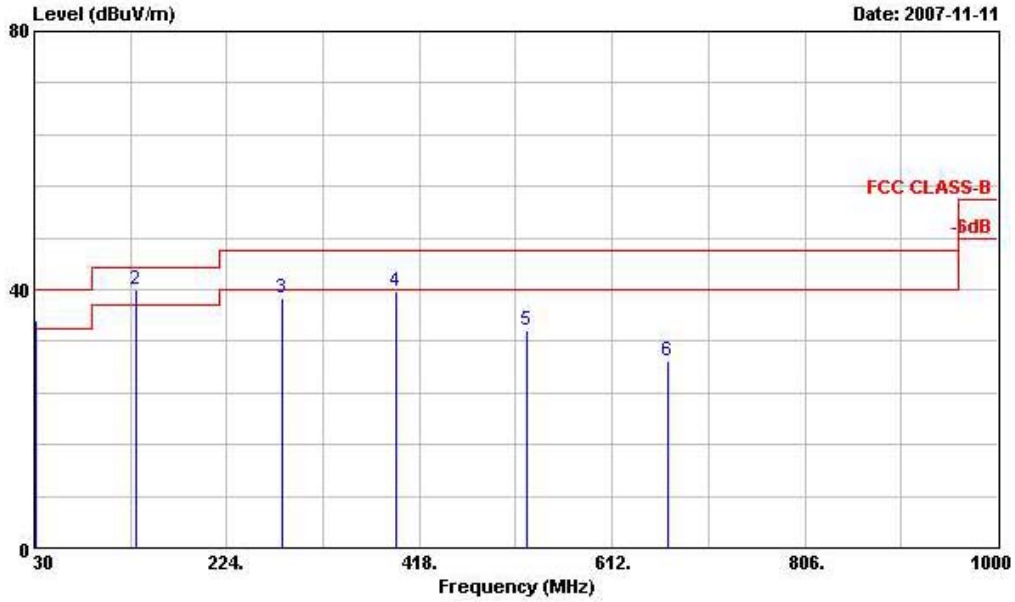
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-3117 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :11n(a) Tx(40M)_CH46;5230MHz
Data Rate:9

		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		1100.000	43.43	-30.57	74.00	46.97	28.38	2.34	34.26	100	0	Peak
2		1332.000	44.05	-29.95	74.00	46.82	28.58	2.60	33.95	100	0	Peak
3		1668.000	46.33	-27.67	74.00	47.16	29.90	2.97	33.70	100	0	Peak
4		2004.000	46.87	-27.13	74.00	44.93	32.30	3.34	33.70	100	0	Peak
5		2332.000	47.17	-26.83	74.00	44.75	32.50	3.69	33.77	100	0	Peak
6		5150.000	38.98	-15.02	54.00	32.33	34.89	6.00	34.24	121	7	Average
7		5150.000	52.46	-21.54	74.00	45.81	34.89	6.00	34.24	100	0	Peak
8	X	5230.000	75.24			68.51	34.94	6.00	34.21	121	7	Average
9	@	5230.000	100.70			93.97	34.94	6.00	34.21	100	0	Peak
10		5350.000	50.11	-23.89	74.00	43.25	35.01	6.00	34.15	100	0	Peak
11		5350.000	38.30	-15.70	54.00	31.44	35.01	6.00	34.15	121	7	Average
12		6974.000	59.18	-14.82	74.00	49.35	36.00	6.35	32.52	100	0	Peak
13	!	6974.000	48.34	-5.66	54.00	38.51	36.00	6.35	32.52	100	135	Average
14		7036.000	54.07	-19.93	74.00	44.32	36.00	6.38	32.63	100	0	Peak
15		7036.000	43.32	-10.68	54.00	33.57	36.00	6.38	32.63	100	158	Average
16		10458.000	58.54	-15.46	74.00	93.85	-8.56	7.80	34.55	100	0	Peak
17		10458.000	46.68	-7.32	54.00	81.99	-8.56	7.80	34.55	100	187	Average

Remark: #8 and #9 Fundamental Signal
Remark: Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

- Test Mode : Mode 15
- Polarization : Horizontal

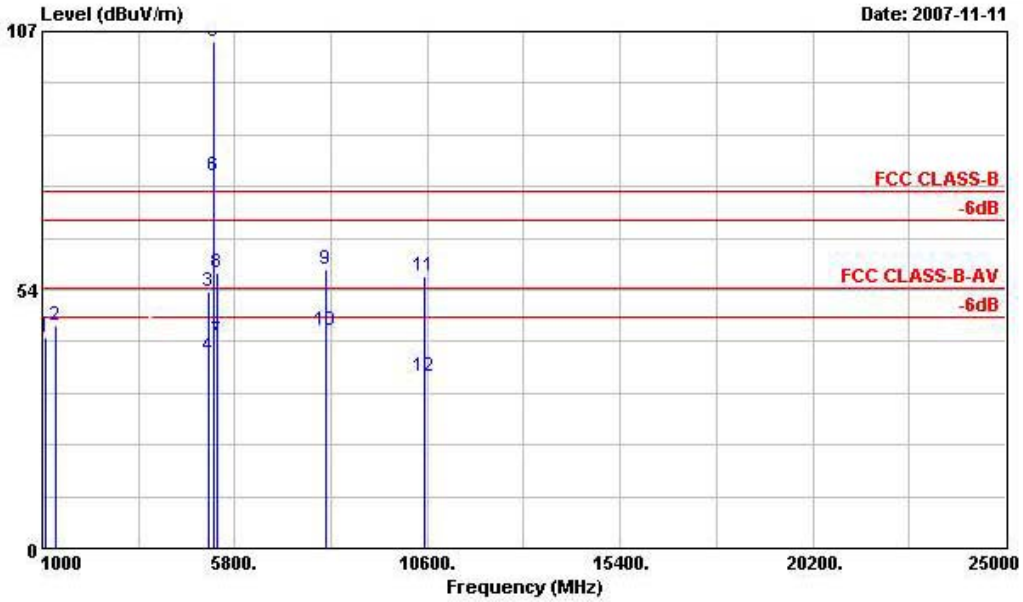
■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT : N/B
POWER : 120Vac/60Hz
MODEL : FR 7O1819
MEMO : 11n(a) Tx(40M)_CH54;5270MHz
Data Rate: 9

		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	!	31.620	35.36	-4.64	40.00	46.40	16.34	0.88	28.26	---	---	Peak
2	!	133.410	39.96	-3.54	43.50	55.34	11.11	1.58	28.07	100	203	Peak
3		280.020	38.71	-7.29	46.00	51.77	12.41	2.17	27.64	---	---	Peak
4		394.500	39.74	-6.26	46.00	49.86	15.58	2.56	28.26	---	---	Peak
5		526.100	33.71	-12.29	46.00	42.16	17.66	2.91	29.03	---	---	Peak
6		668.200	29.05	-16.95	46.00	34.64	20.06	3.45	29.10	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



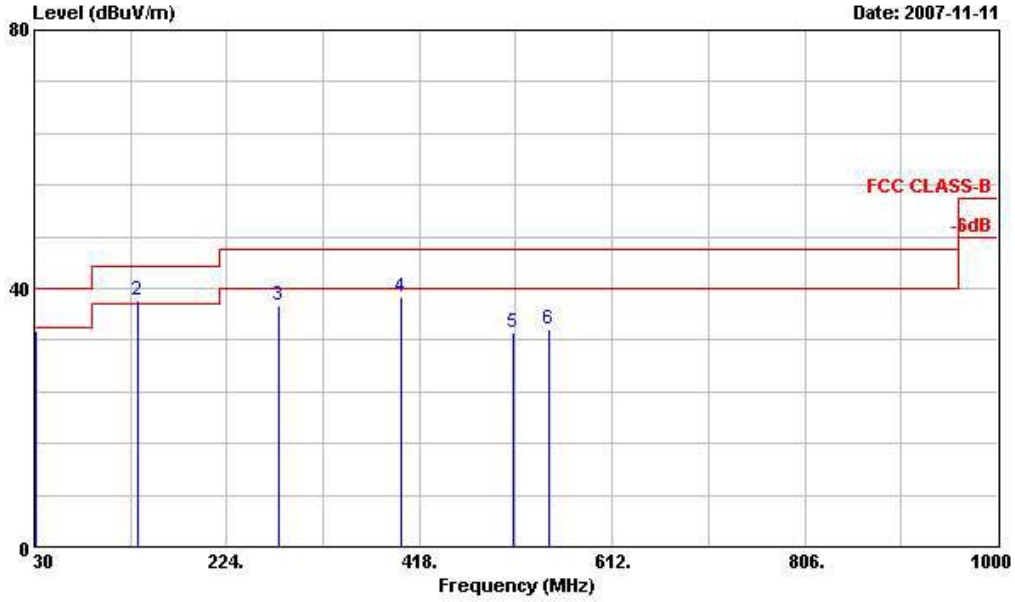
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(40M)_CH54;5270MHz
Data Rate:9

	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	1100.000	43.66	-30.34	74.00	50.05	25.53	2.34	34.26	100	0	Peak
2	1334.000	46.15	-27.85	74.00	50.95	26.55	2.60	33.95	100	0	Peak
3	5150.000	53.13	-20.87	74.00	46.09	35.28	6.00	34.24	100	0	Peak
4	5150.000	39.78	-14.22	54.00	32.74	35.28	6.00	34.24	100	2	Average
5 @	5270.000	104.92			97.69	35.42	6.00	34.19	100	0	Peak
6 X	5270.000	77.00	-----	-----	69.77	35.42	6.00	34.19	100	2	Average
7	5350.000	42.78	-11.22	54.00	35.41	35.52	6.00	34.15	100	2	Average
8	5350.000	56.99	-17.01	74.00	49.62	35.52	6.00	34.15	100	0	Peak
9	8076.000	57.76	-16.24	74.00	45.15	39.50	6.80	33.68	100	0	Peak
10	8076.000	45.14	-8.86	54.00	32.53	39.50	6.80	33.68	100	244	Average
11	10542.000	56.19	-17.81	74.00	91.36	-8.48	7.80	34.48	100	0	Peak
12	10542.000	35.54	-18.46	54.00	70.71	-8.48	7.80	34.48	100	278	Average

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

- Polarization : Vertical

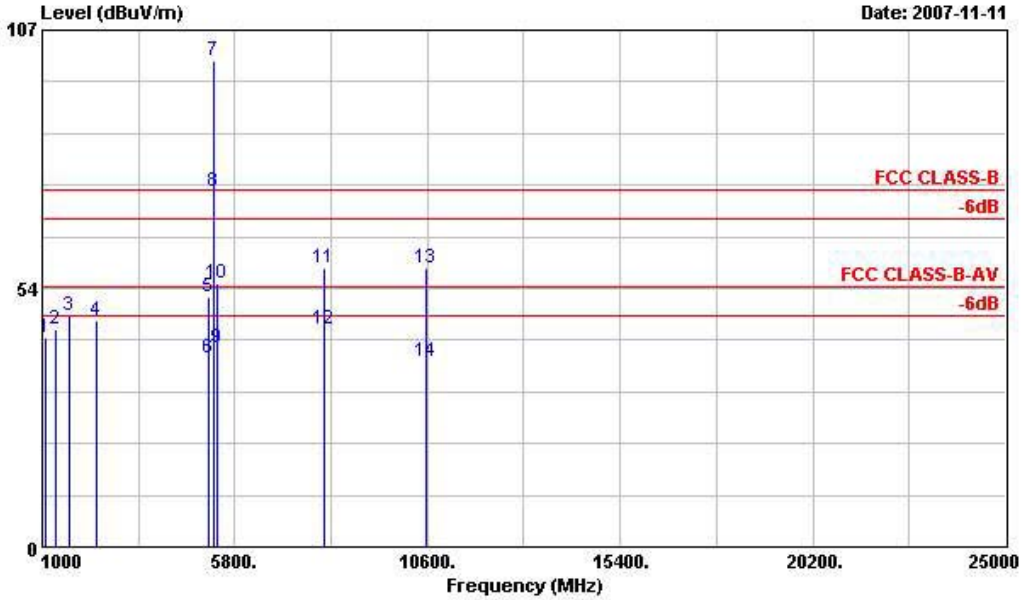
■ The test that passed at minimum margin was marked by the boldface in the following table.




```
Site      :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT       :N/B
POWER     :120Vac/60Hz
MODEL     :FR 701819
MEMO      :11n(a) Tx(40M)_CH54;5270MHz
Data Rate:9
```

	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	31.890	33.41	-6.59	40.00	44.44	16.34	0.89	28.26	---	---	Peak
2 !	134.220	38.18	-5.32	43.50	53.55	11.11	1.59	28.07	100	171	Peak
3	277.050	37.33	-8.67	46.00	50.39	12.43	2.15	27.65	---	---	Peak
4	399.400	38.60	-7.40	46.00	48.57	15.75	2.57	28.29	---	---	Peak
5	512.100	33.17	-12.83	46.00	42.07	17.26	2.86	29.01	---	---	Peak
6	548.500	33.78	-12.22	46.00	41.47	18.36	3.00	29.05	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



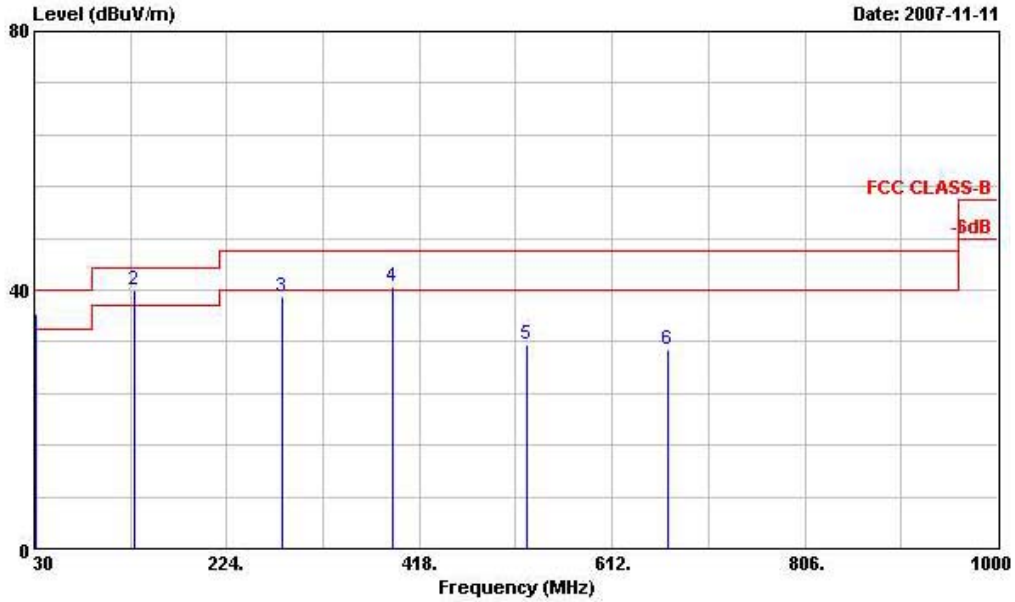
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(40M)_CH54;5270MHz
Data Rate:9

		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		1084.000	43.41	-30.59	74.00	49.91	25.46	2.34	34.30	100	0	Peak
2		1332.000	45.00	-29.00	74.00	49.80	26.55	2.60	33.95	100	0	Peak
3		1668.000	47.79	-26.21	74.00	50.05	28.47	2.97	33.70	100	0	Peak
4		2334.000	46.83	-27.17	74.00	46.37	30.54	3.69	33.77	100	0	Peak
5		5150.000	51.61	-22.39	74.00	44.57	35.28	6.00	34.24	100	0	Peak
6		5150.000	39.23	-14.77	54.00	32.19	35.28	6.00	34.24	110	43	Average
7	@	5270.000	100.60			93.37	35.42	6.00	34.19	100	0	Peak
8	X	5270.000	73.71			66.48	35.42	6.00	34.19	110	43	Average
9		5350.000	41.14	-12.86	54.00	33.77	35.52	6.00	34.15	110	43	Average
10		5350.000	54.44	-19.56	74.00	47.07	35.52	6.00	34.15	100	0	Peak
11		8030.000	57.83	-16.17	74.00	45.20	39.50	6.77	33.64	100	0	Peak
12		8030.000	45.19	-8.81	54.00	32.56	39.50	6.77	33.64	100	127	Average
13		10545.000	57.67	-16.33	74.00	92.84	-8.48	7.80	34.48	100	0	Peak
14		10545.000	38.41	-15.59	54.00	73.58	-8.48	7.80	34.48	100	57	Average

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

- Test Mode : Mode 16
- Polarization : Horizontal

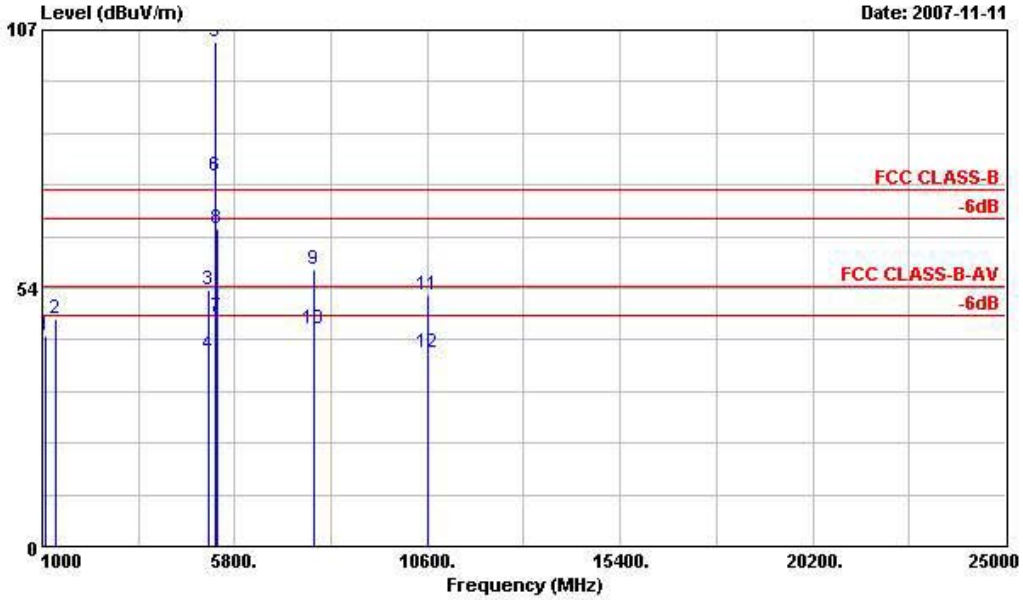
■ The test that passed at minimum margin was marked by the boldface in the following table.




```
Site      :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 HORIZONTAL
EUT       :N/B
POWER     :120Vac/60Hz
MODEL     :FR 7O1819
MEMO      :11n(a) Tx(40M)_CH62;5310MHz
Data Rate:9
```

	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 !	31.890	36.38	-3.62	40.00	47.41	16.34	0.89	28.26	---	---	Peak
2 !	131.250	39.89	-3.61	43.50	55.03	11.37	1.56	28.08	100	185	Peak
3	279.210	38.84	-7.16	46.00	51.90	12.42	2.16	27.64	---	---	Peak
4 !	391.000	40.59	-5.41	46.00	50.83	15.45	2.54	28.24	---	---	Peak
5	526.100	31.49	-14.51	46.00	39.94	17.66	2.91	29.03	---	---	Peak
6	668.200	30.67	-15.33	46.00	36.26	20.06	3.45	29.10	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



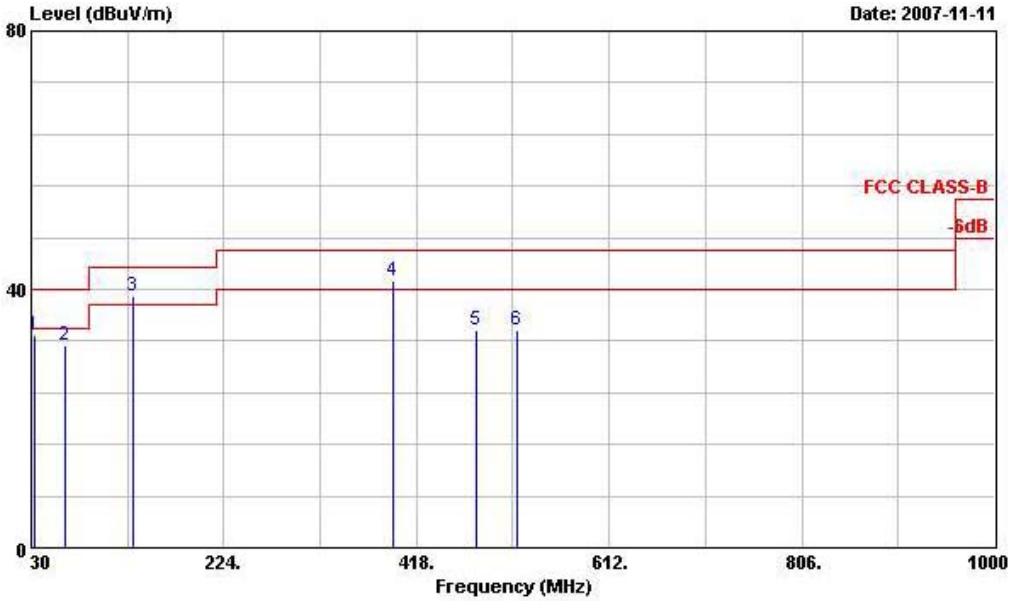
Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 HORIZONTAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(40M)_CH62;5310MHz
Data Rate:9

		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		1084.000	43.53	-30.47	74.00	50.03	25.46	2.34	34.30	100	0	Peak
2		1334.000	47.18	-26.82	74.00	51.98	26.55	2.60	33.95	100	0	Peak
3		5150.000	53.09	-20.91	74.00	46.05	35.28	6.00	34.24	100	0	Peak
4		5150.000	39.72	-14.28	54.00	32.68	35.28	6.00	34.24	100	5	Average
5	@	5310.000	104.66			97.35	35.48	6.00	34.17	100	0	Peak
6	X	5310.000	76.74			69.43	35.48	6.00	34.17	100	5	Average
7		5350.000	47.69	-6.31	54.00	40.32	35.52	6.00	34.15	100	5	Average
8		5350.000	65.69	-8.31	74.00	58.32	35.52	6.00	34.15	100	0	Peak
9		7790.000	57.46	-16.54	74.00	45.02	39.46	6.67	33.69	100	0	Peak
10		7790.000	45.10	-8.90	54.00	32.66	39.46	6.67	33.69	100	187	Average
11		10626.000	51.92	-22.08	74.00	87.00	-8.45	7.80	34.44	100	0	Peak
12		10626.000	40.14	-13.86	54.00	75.22	-8.45	7.80	34.44	100	175	Average

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

- Polarization : Vertical

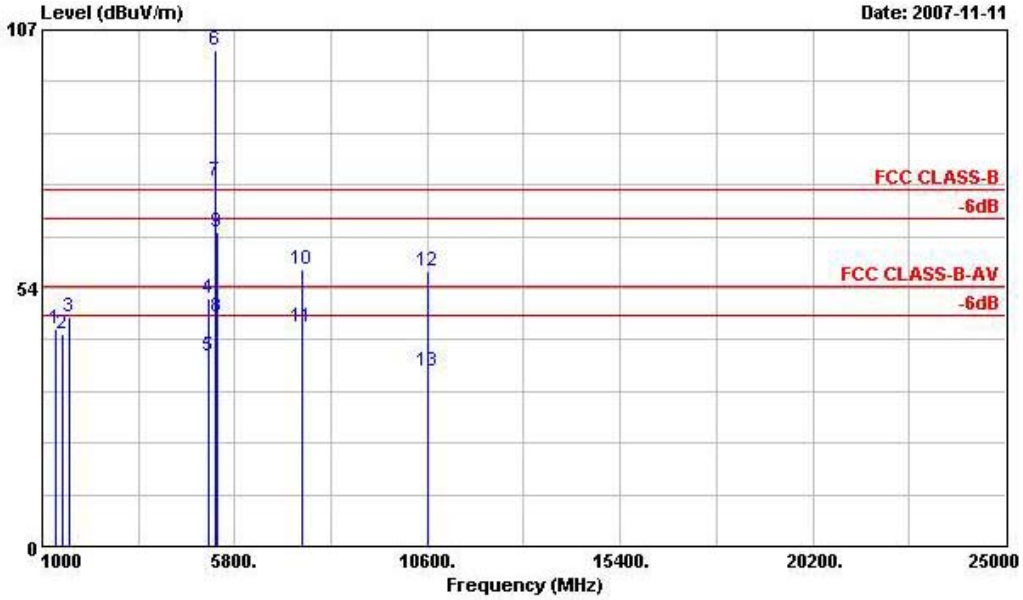
■ The test that passed at minimum margin was marked by the boldface in the following table.




```
Site      :03CH04-HY
Condition:FCC CLASS-B 3m ANT2724 VERTICAL
EUT       :N/B
POWER     :120Vac/60Hz
MODEL     :FR 701819
MEMO      :11n(a) Tx(40M)_CH62;5310MHz
Data Rate:9
```

		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		32.970	33.02	-6.98	40.00	44.06	16.33	0.90	28.26	---	---	Peak
2		64.290	31.21	-8.79	40.00	54.05	4.29	1.14	28.27	---	---	Peak
3	!	133.410	38.82	-4.68	43.50	54.20	11.11	1.58	28.07	100	187	Peak
4	!	394.500	41.30	-4.70	46.00	51.42	15.58	2.56	28.26	---	---	Peak
5		478.500	33.62	-12.38	46.00	43.04	16.65	2.77	28.85	---	---	Peak
6		519.800	33.75	-12.25	46.00	42.39	17.49	2.89	29.02	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



Site :03CH04-HY
Condition:FCC CLASS-B 3m HF-ANT-10094 VERTICAL
EUT :N/B
POWER :120Vac/60Hz
MODEL :FR 701819
MEMO :1ln(a) Tx(40M)_CH62;5310MHz
Data Rate:9

		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		1326.000	45.07	-28.93	74.00	49.94	26.48	2.60	33.95	100	0	Peak
2		1500.000	44.02	-29.98	74.00	47.74	27.20	2.79	33.70	100	0	Peak
3		1668.000	47.60	-26.40	74.00	49.86	28.47	2.97	33.70	100	0	Peak
4		5150.000	51.25	-22.75	74.00	44.21	35.28	6.00	34.24	100	0	Peak
5		5150.000	39.26	-14.74	54.00	32.22	35.28	6.00	34.24	112	10	Average
6	@	5310.000	102.86			95.55	35.48	6.00	34.17	100	0	Peak
7	X	5310.000	75.62			68.31	35.48	6.00	34.17	112	10	Average
8		5350.000	47.56	-6.44	54.00	40.19	35.52	6.00	34.15	112	10	Average
9		5350.000	65.15	-8.85	74.00	57.78	35.52	6.00	34.15	100	0	Peak
10		7470.000	57.47	-16.53	74.00	45.26	39.39	6.55	33.74	100	0	Peak
11		7470.000	45.26	-8.74	54.00	33.05	39.39	6.55	33.74	100	245	Average
12		10614.000	56.93	-17.07	74.00	92.02	-8.46	7.80	34.44	100	0	Peak
13		10614.000	36.21	-17.79	54.00	71.30	-8.46	7.80	34.44	100	145	Average

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

5.6.4 E.I.R.P. Power

Mode	Frequency (MHz)	Field Strength (dBuV/m)	EIRP (dBm)	Over Limit (dB)	Limit (EIPR dBm)
802.11a	5150.00 MHz	61.60 dBuV/m	-35.53	-8.53	-27.00
	5350.00 MHz	56.80 dBuV/m	-40.33	-13.33	-27.00
802.11n(a) BW 20M	5150.00 MHz	64.26 dBuV/m	-32.87	-5.87	-27.00
	5350.00 MHz	62.31 dBuV/m	-34.82	-7.82	-27.00
802.11n(a) BW 40M	5150.00 MHz	67.76 dBuV/m	-29.37	-2.37	-27.00
	5350.00 MHz	65.69 dBuV/m	-31.44	-4.44	-27.00

Remark: EIRP=10*Log({10^[(Field Strength-120)/20]*distance}^2/{30*[10^(Antenna Gain/10)]}/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.

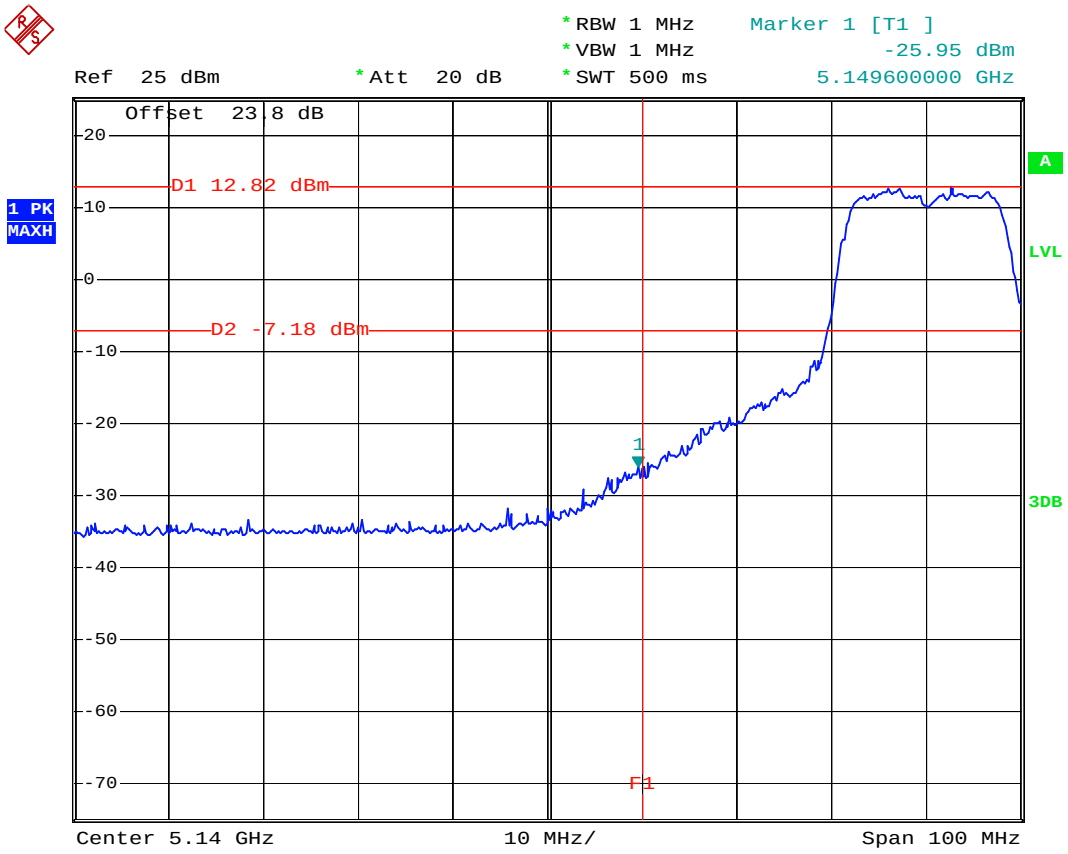
5.7.3 Test Result

- Temperature : 25~26℃
- Relative Humidity : 49~51%
- Test Engineer : CKC

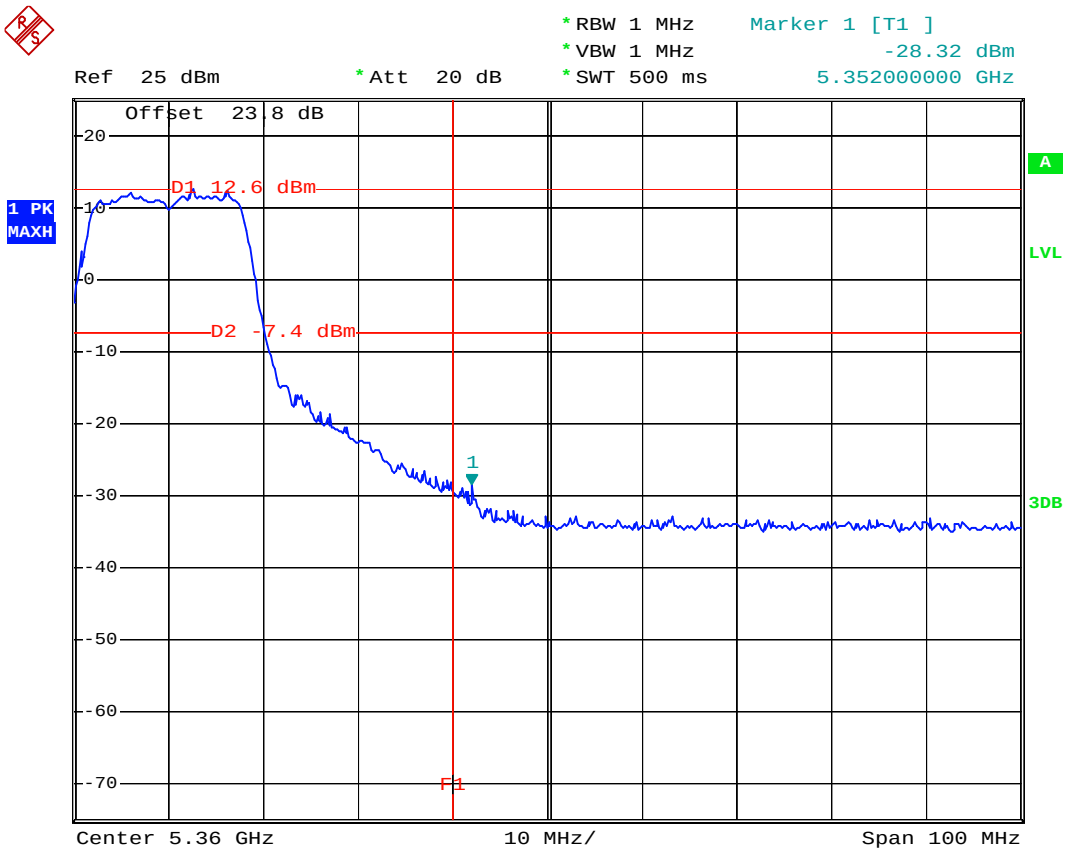
Test Result Mode		Verdict
Test Result for 802.11a band I,II	:	PASS

5.7.4 Test Data

Mode 1

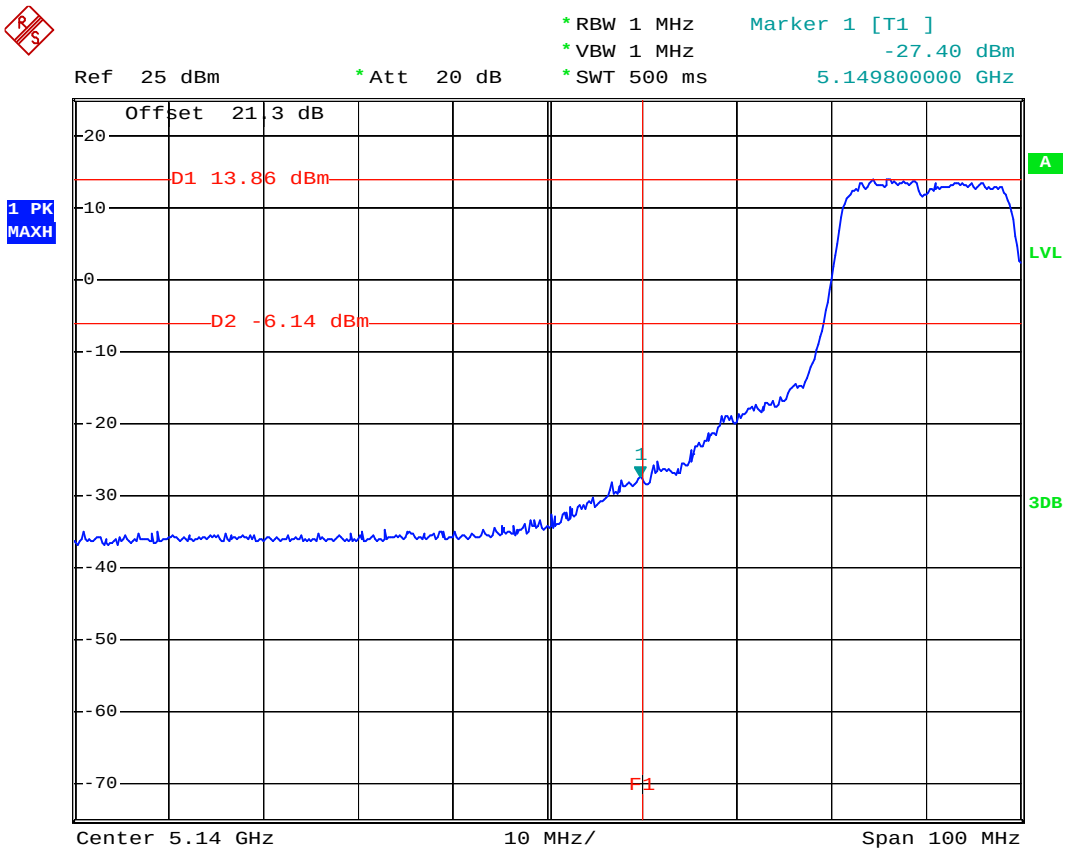


Mode 6

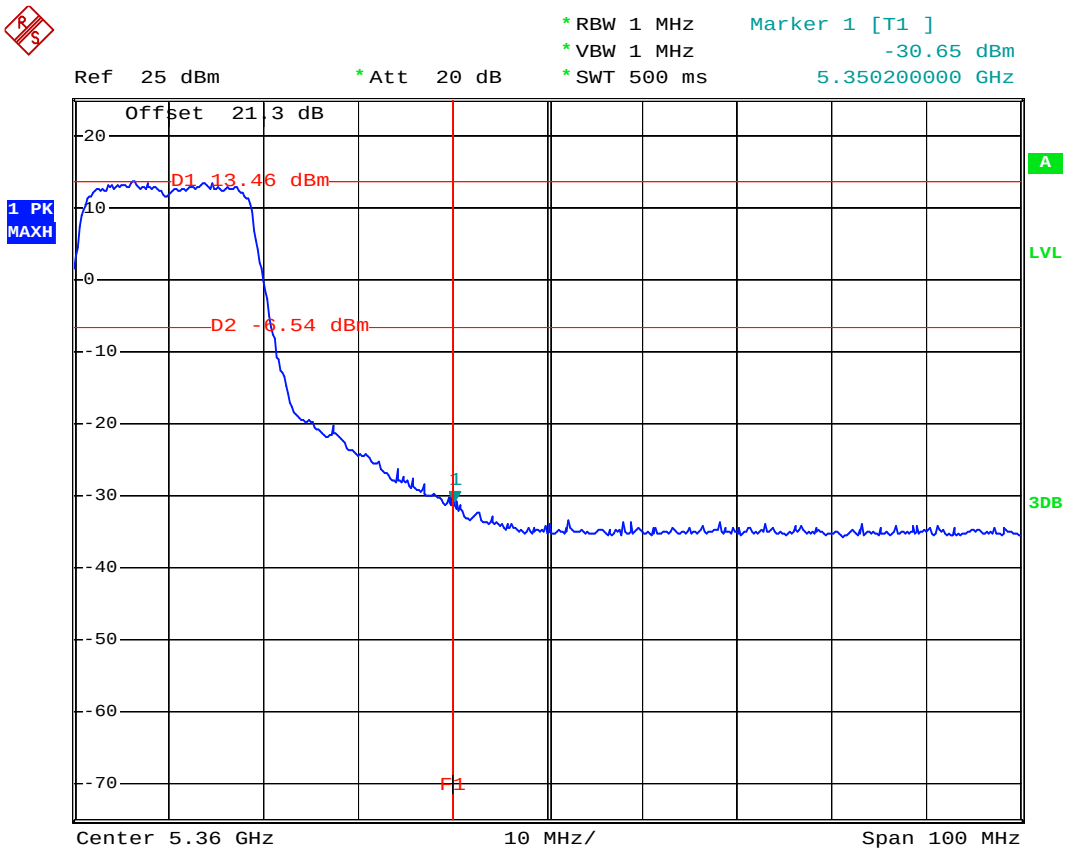


Date: 21.NOV.2007 23:37:34

Mode 7

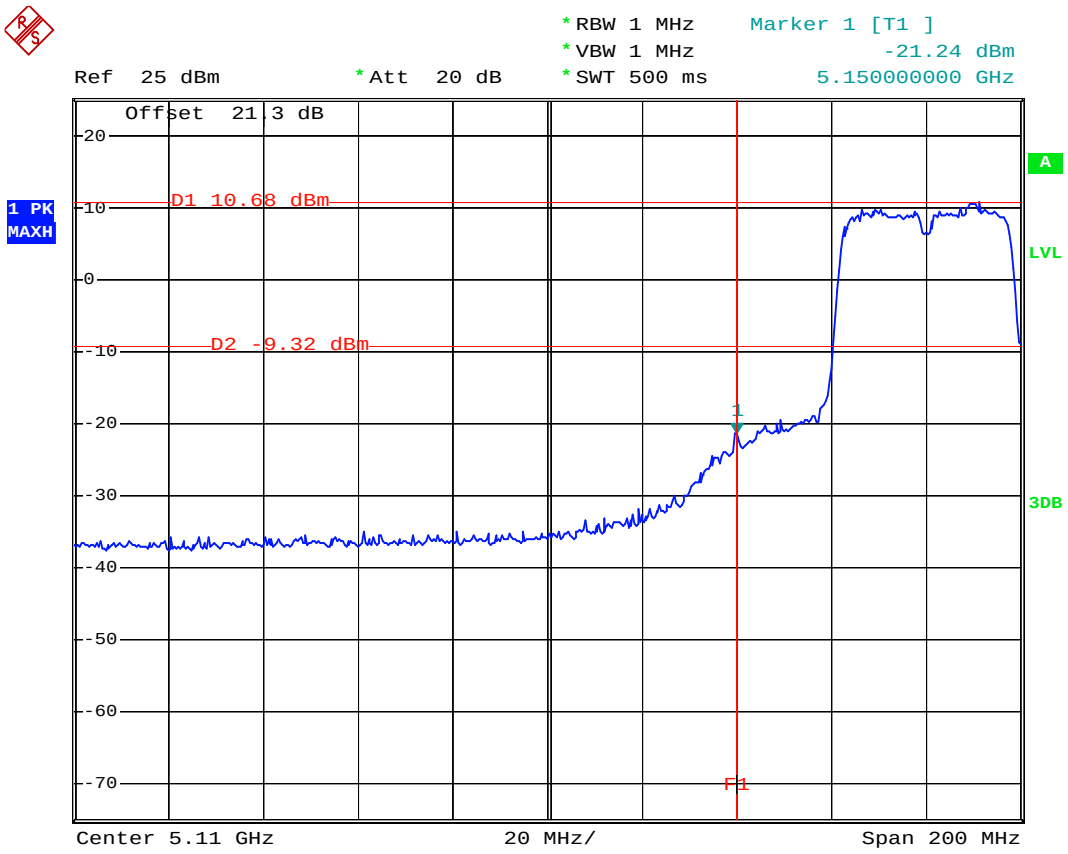

*RBW 1 MHz
*VBW 1 MHz
*SWT 500 ms
Marker 1 [T1]
-27.40 dBm
5.149800000 GHz
Ref 25 dBm
*Att 20 dB
Offset 21.3 dB
D1 13.86 dBm
D2 -6.14 dBm
1 PK
MAXH
A
LVL
3DB
Center 5.14 GHz
10 MHz/
Span 100 MHz
Date: 22.NOV.2007 00:50:58

Mode 12



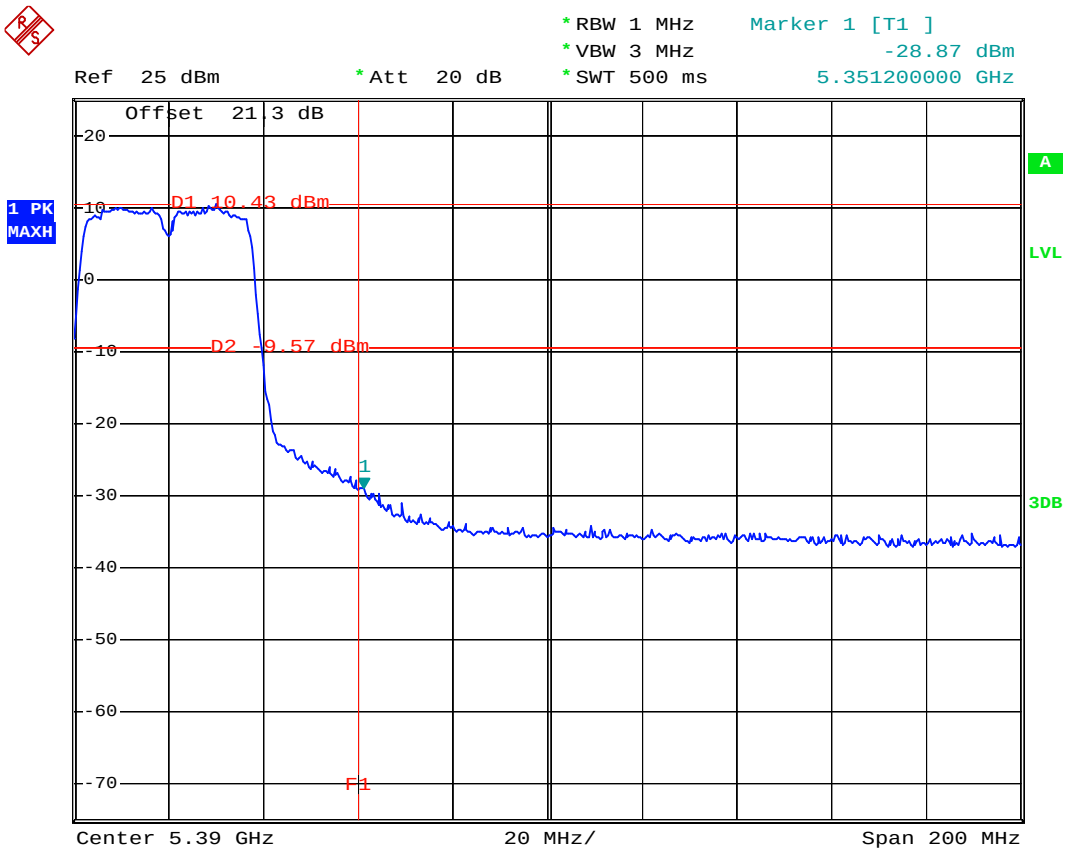
Date: 20.NOV.2007 15:08:04

Mode 13



Date: 22.NOV.2007 01:56:16

Mode 16



Date: 22.NOV.2007 01:04:42

5.8 Peak Excursion Ratio Measurement

5.8.1 Measuring Instruments

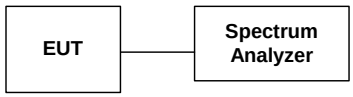
As described in chapter 6 of this test report.

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 : 25~26℃
- Relative Humidity : 49~51%
- Test Engineer : CKC

➢ **802.11a Normal mode**

Channel	Frequency (MHz)	Peak Excursion (dB)	Limits (MHz)	Plot Ref. No.
36	5180	-8.00	13	Mode 1
44	5220	-9.12	13	Mode 2
48	5240	-7.08	13	Mode 3
52	5260	-9.10	13	Mode 4
60	5300	-8.18	13	Mode 5
64	5320	-7.78	13	Mode 6

➢ **802.11n(a) BW 20M mode**

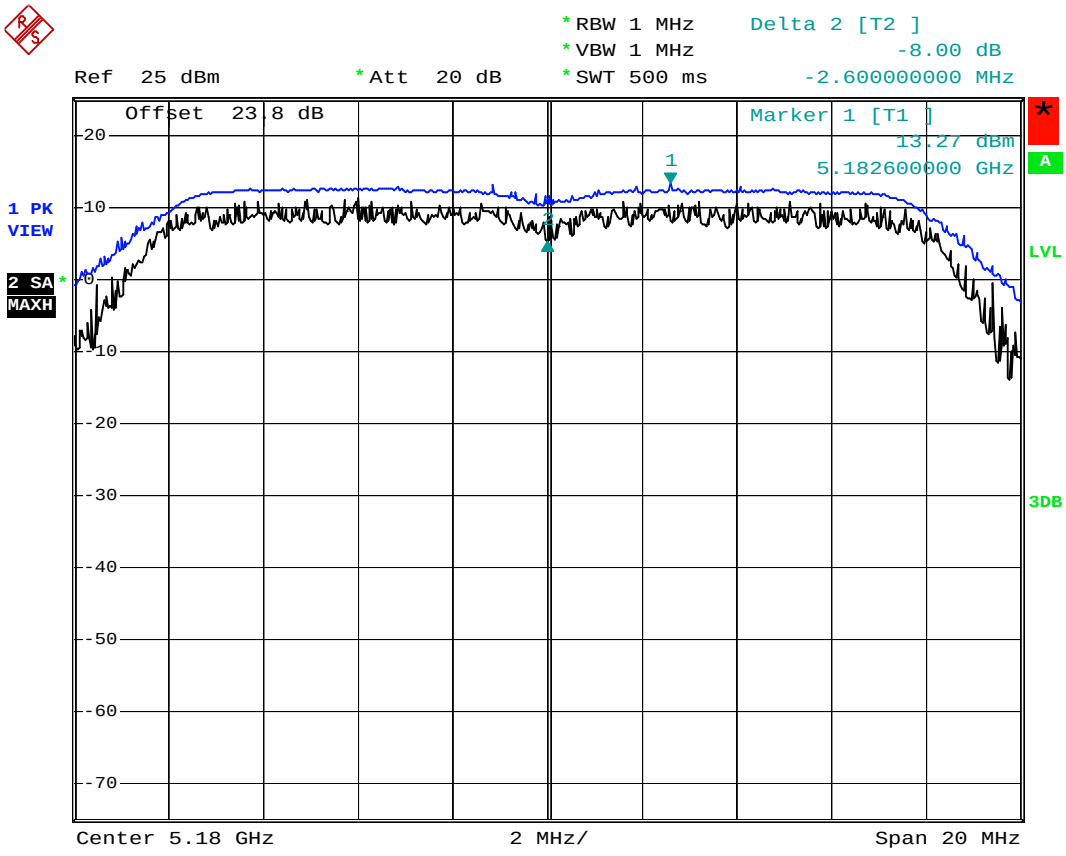
Channel	Frequency (MHz)	Peak Excursion (dB)	Limits (MHz)	Plot Ref. No.
36	5180	-8.30	13	Mode 7
44	5220	-8.70	13	Mode 8
48	5240	-7.42	13	Mode 9
52	5260	-7.87	13	Mode 10
60	5300	-8.74	13	Mode 11
64	5320	-7.11	13	Mode 12

➢ **802.11n(a) BW 40M mode**

Channel	Frequency (MHz)	Peak Excursion (dB)	Limits (MHz)	Plot Ref. No.
38	5190	-10.52	13	Mode 13
46	5230	-11.95	13	Mode 14
54	5270	-10.24	13	Mode 15
62	5310	-10.84	13	Mode 16

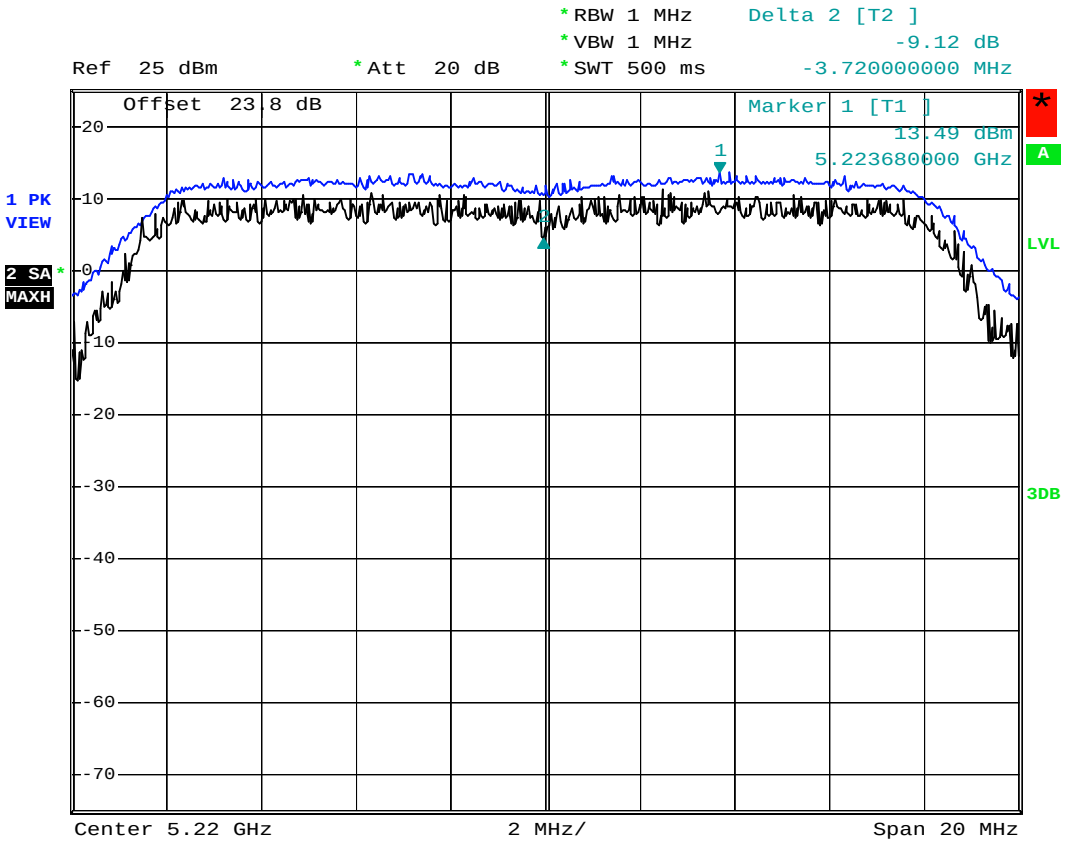
5.8.5 Test Data

Mode 1



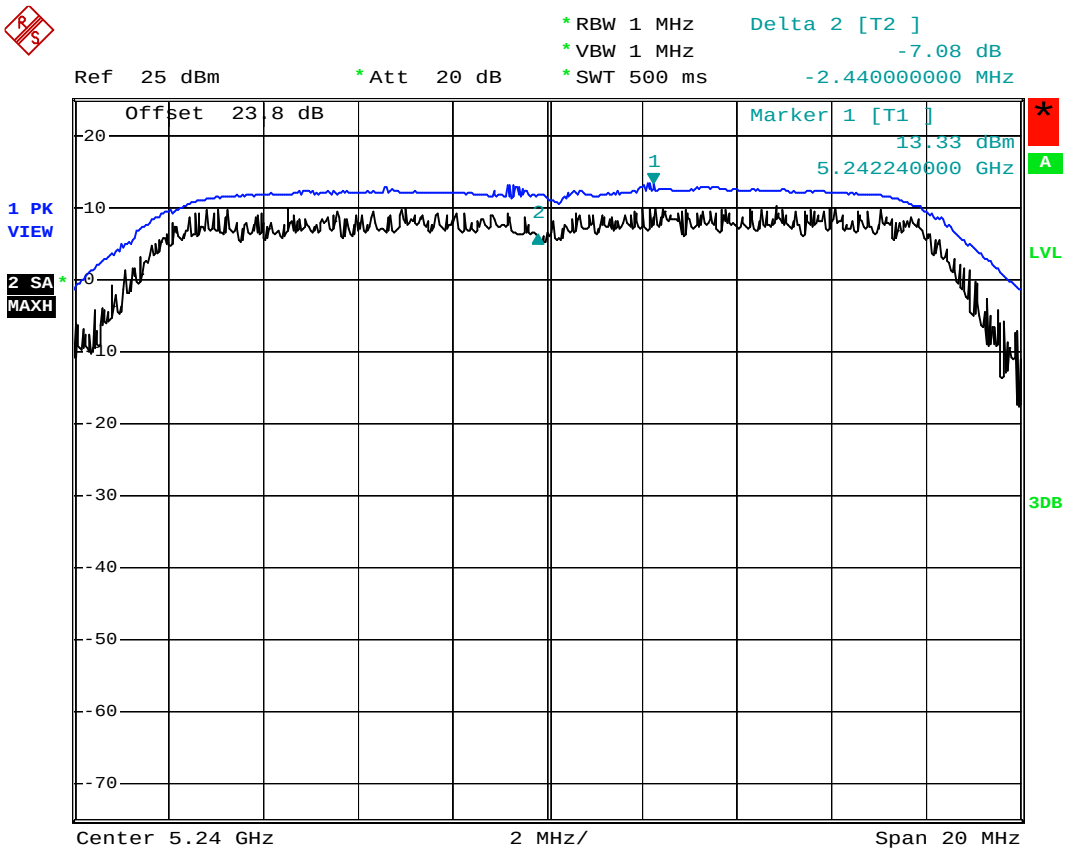
Date: 9.NOV.2007 16:08:41

Mode 2



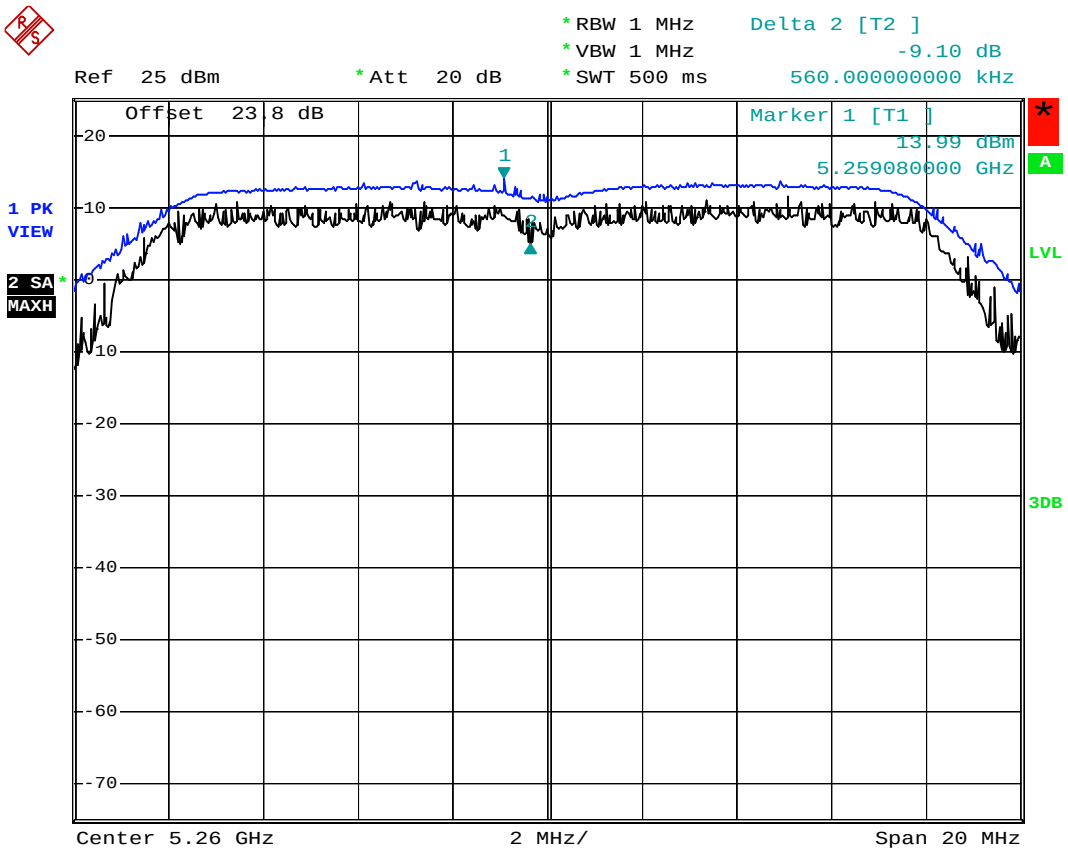
Date: 5.JAN.2008 00:58:08

Mode 3



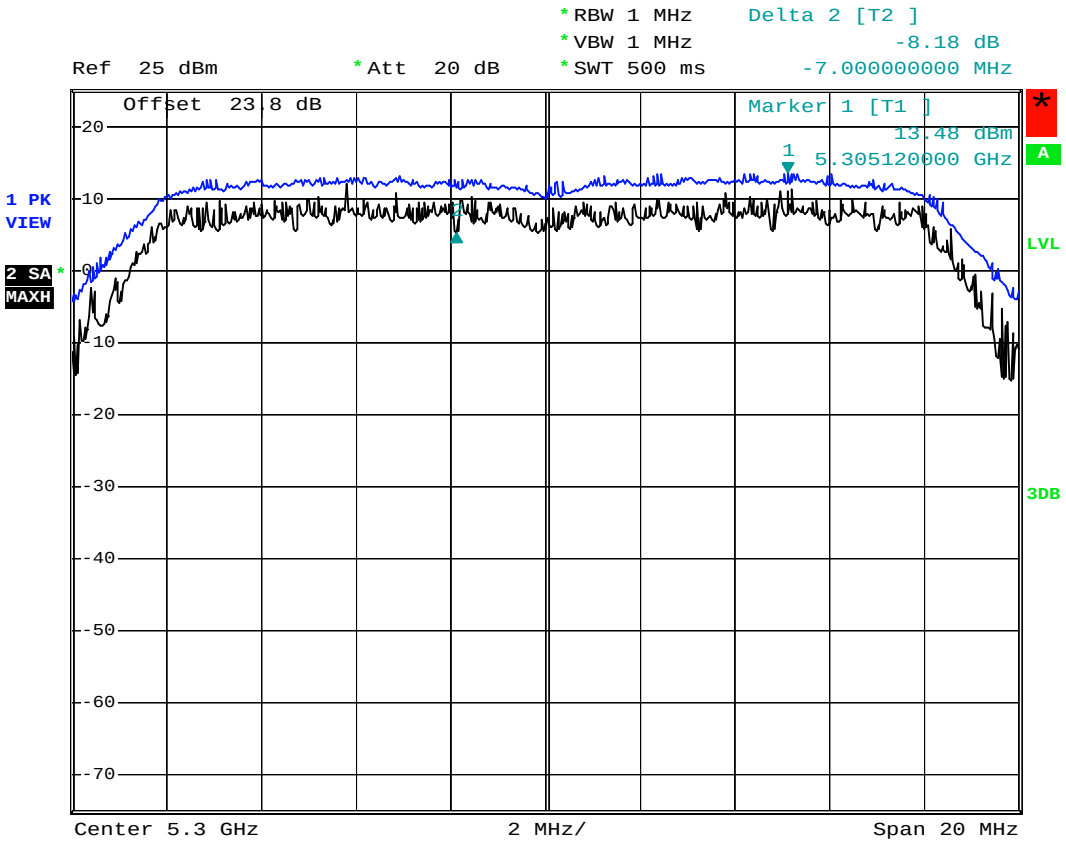
Date: 9.NOV.2007 16:06:43

Mode 4



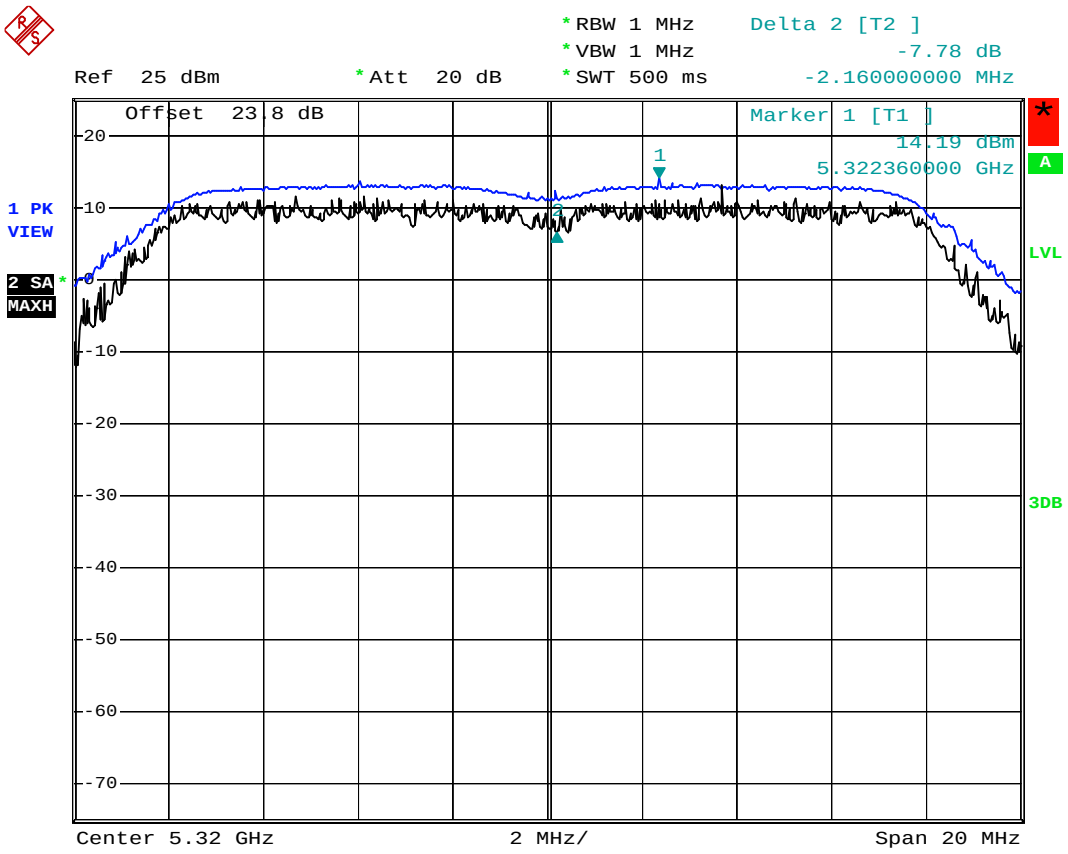
Date: 9.NOV.2007 16:04:09

Mode 5



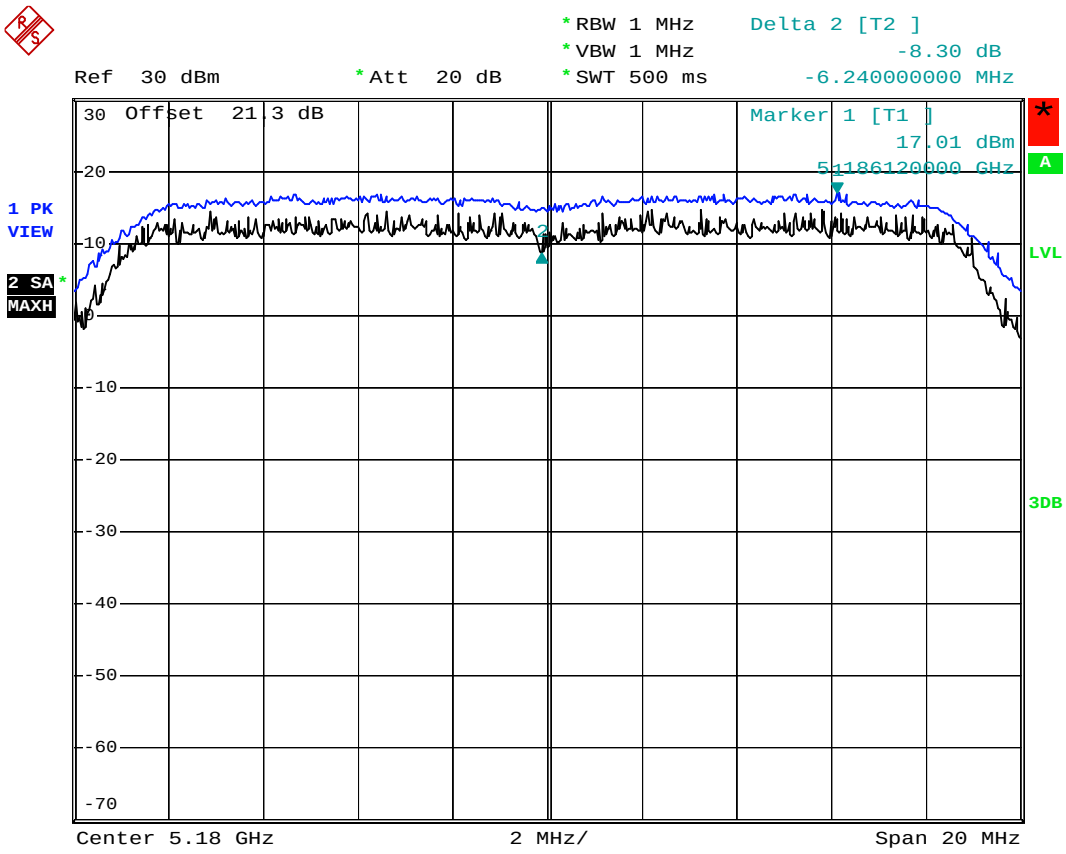
Date: 5.JAN.2008 00:52:27

Mode 6



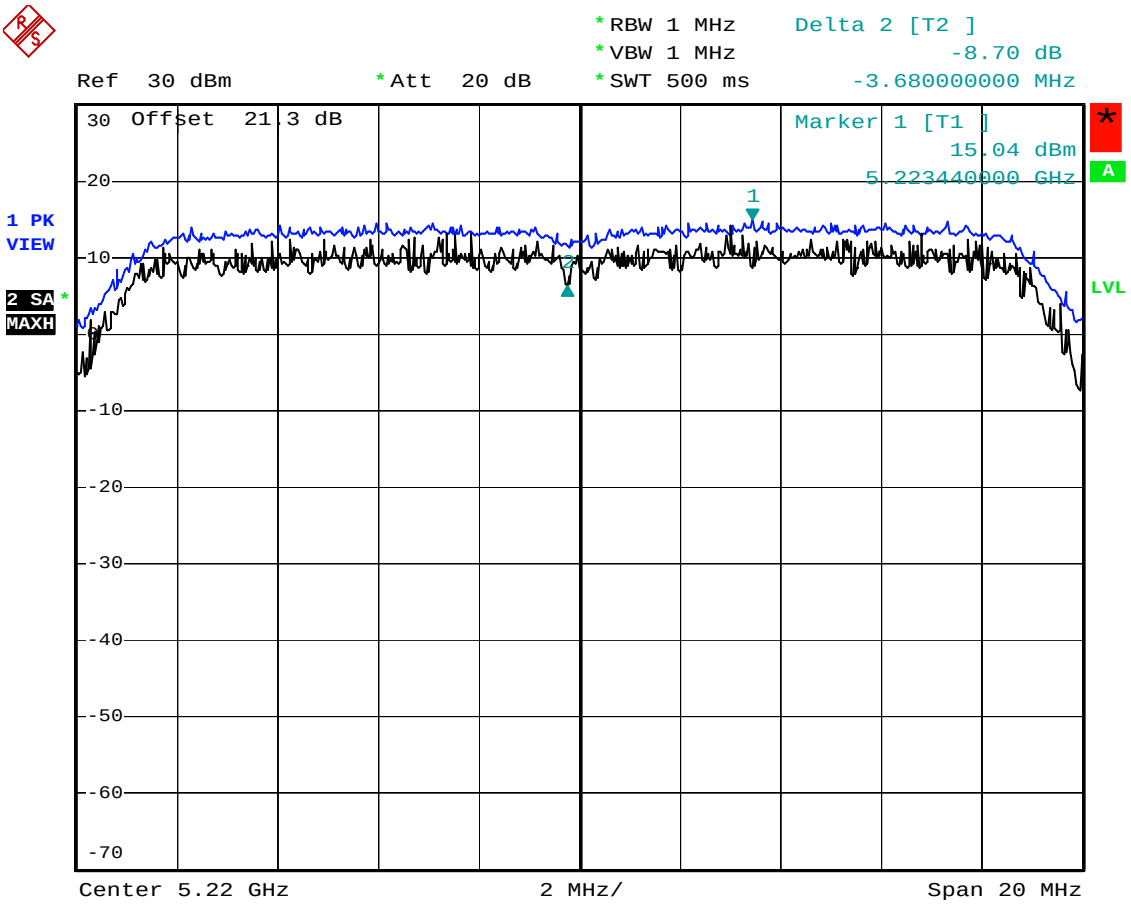
Date: 9.NOV.2007 16:02:47

Mode 7



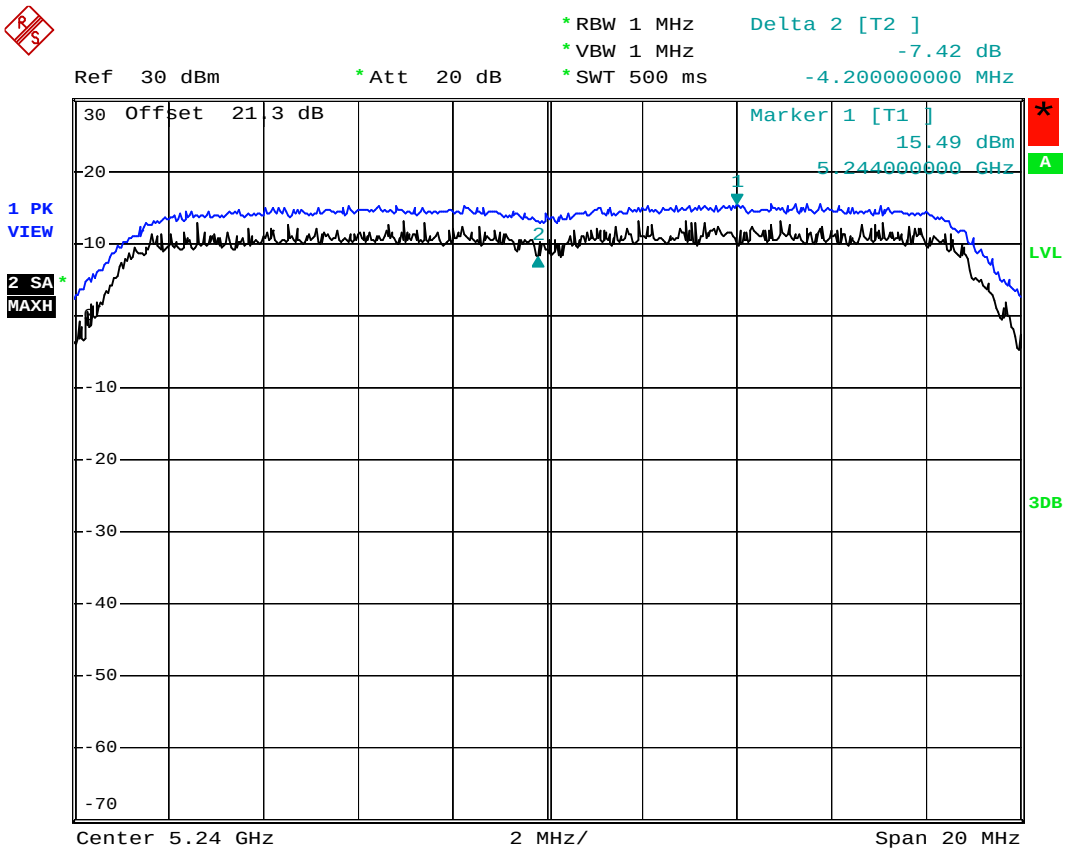
Date: 8.NOV.2007 16:39:24

Mode 8



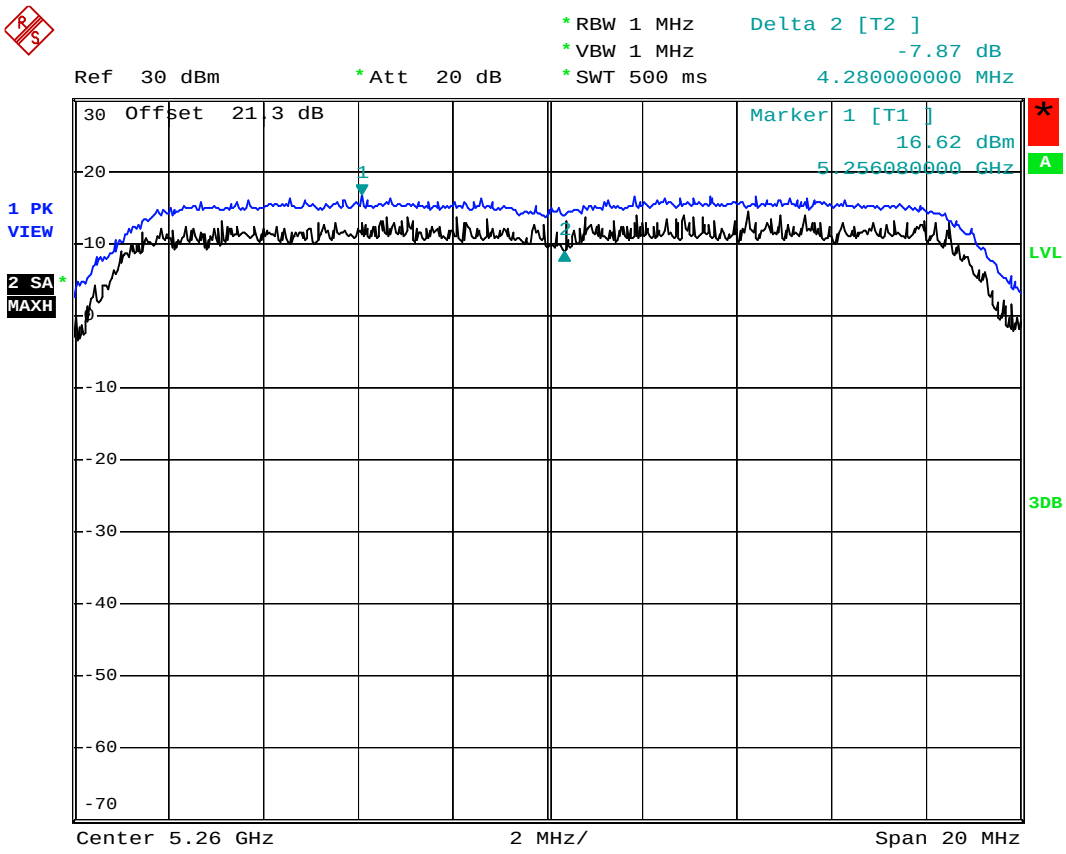
Date: 7.JAN.2008 18:19:13

Mode 9



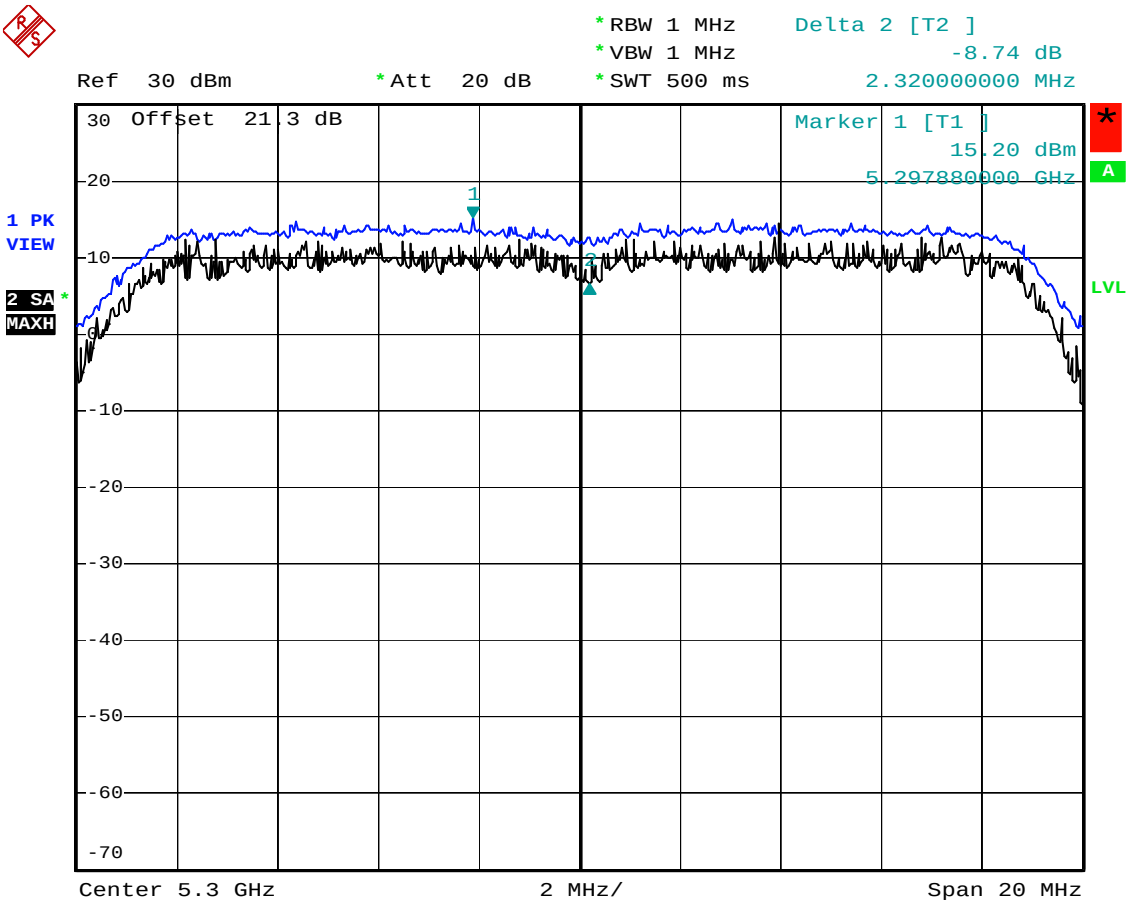
Date: 8.NOV.2007 16:37:35

Mode 10



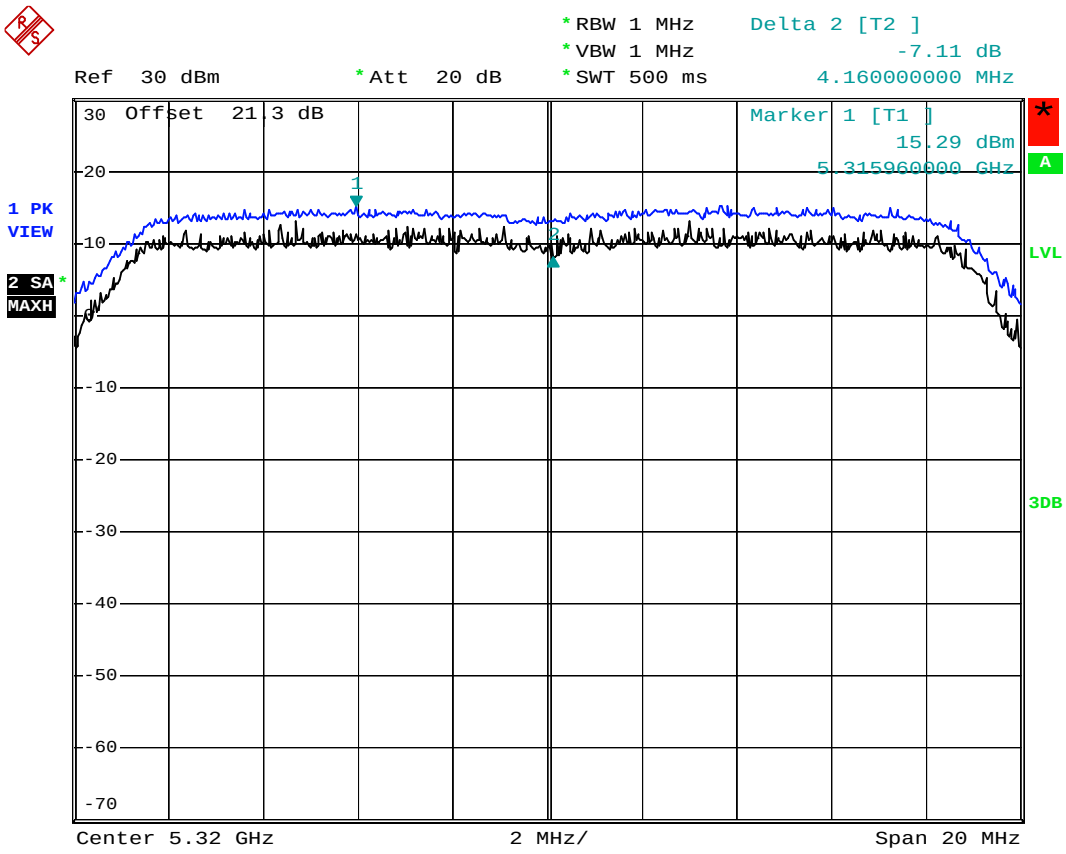
Date: 8.NOV.2007 16:41:01

Mode 11



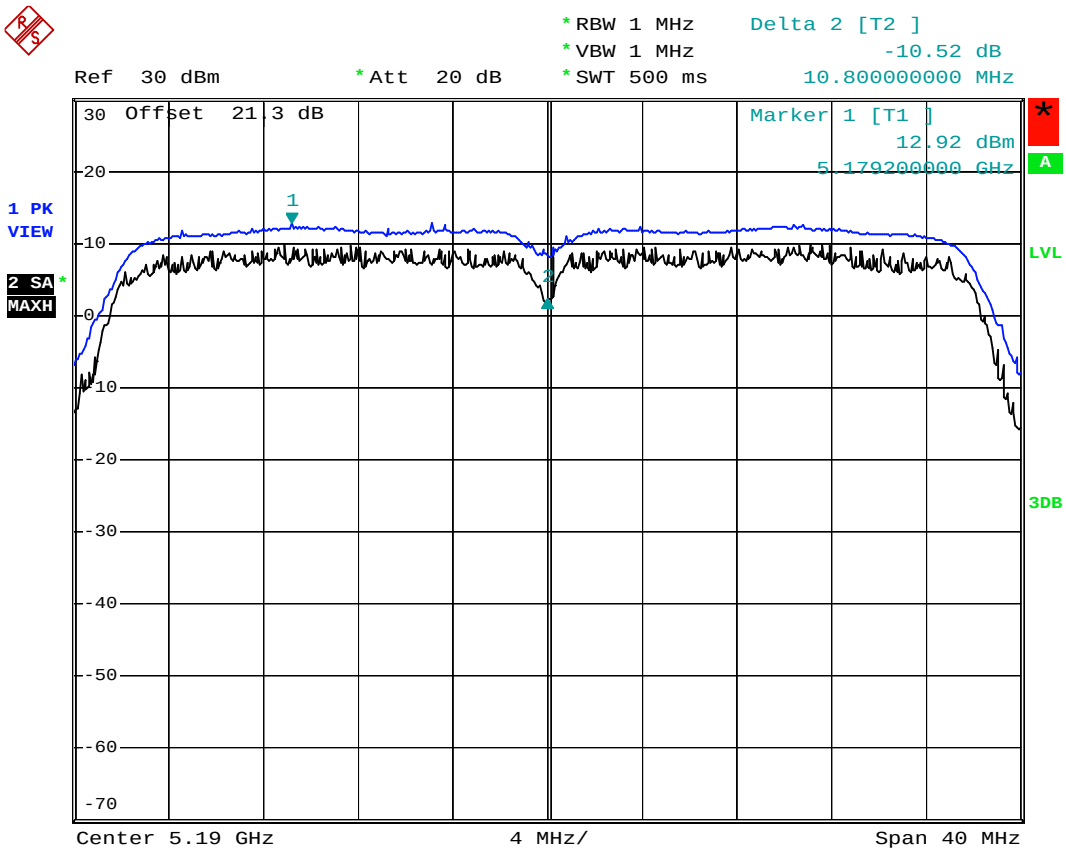
Date: 7.JAN.2008 18:12:22

Mode 12



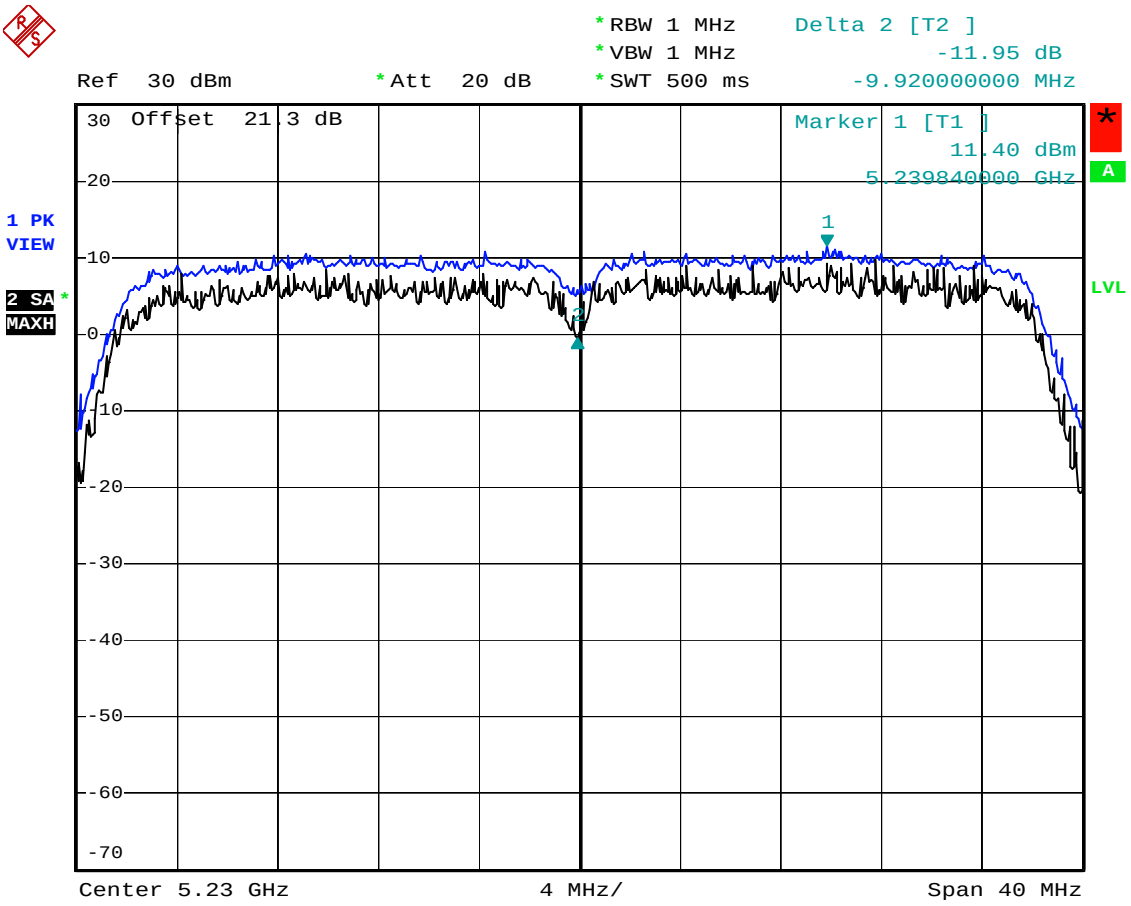
Date: 8.NOV.2007 16:43:14

Mode 13



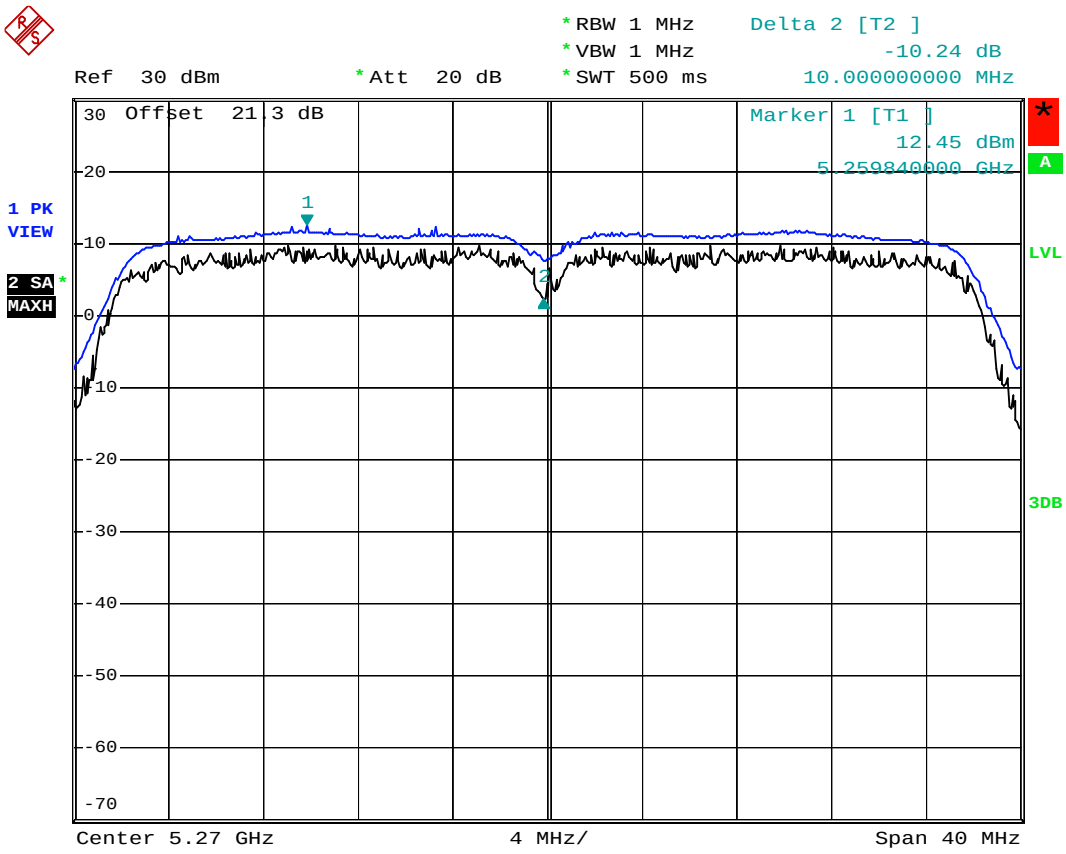
Date: 8.NOV.2007 16:45:40

Mode 14



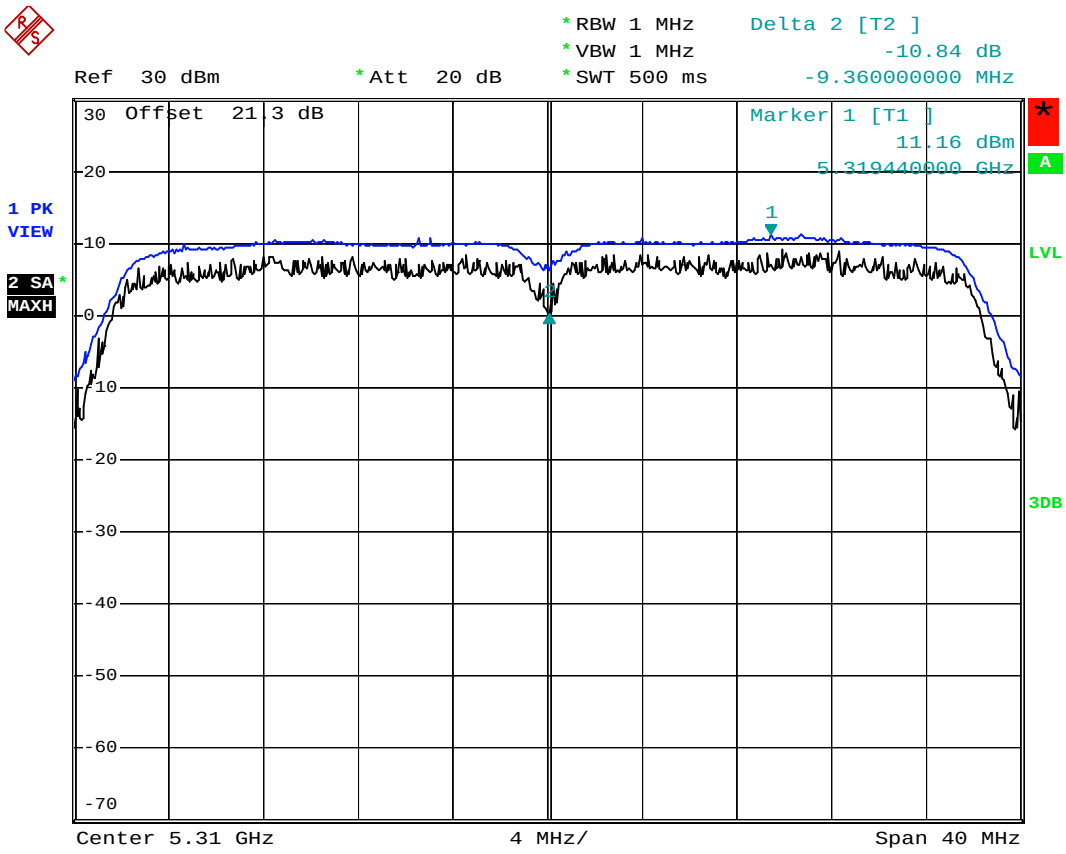
Date: 7.JAN.2008 18:25:58

Mode 15



Date: 8.NOV.2007 16:47:49

Mode 16



Date: 8.NOV.2007 16:49:52

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.

➢ **802.11a Normal mode**

Frequency(MHz)	Low Frequency (Fl)	High Frequency (Fh)	Center Frequency (Fc)	Frequency Staility (ppm)
5180	5171.68	5188.28	5179.98	-0.02
5220	5211.64	5228.32	5219.98	-0.02
5240	5231.68	5248.32	5240.00	0.00
5260	5251.68	5268.32	5260.00	0.00
5300	5291.68	5308.28	5299.98	-0.02
5320	5311.68	5328.28	5319.98	-0.02

➢ **802.11n(a) BW 20M mode**

Frequency(MHz)	Low Frequency (Fl)	High Frequency (Fh)	Center Frequency (Fc)	Frequency Staility (ppm)
5180	5171.08	5188.92	5180.00	0.00
5220	5211.08	5228.92	5220.00	0.00
5240	5231.08	5248.92	5240.00	0.00
5260	5251.08	5268.92	5260.00	0.00
5300	5291.08	5308.96	5300.02	0.02
5320	5311.08	5328.92	5320.00	0.00

➢ **802.11n(a) BW 40M mode**

Frequency(MHz)	Low Frequency (Fl)	High Frequency (Fh)	Center Frequency (Fc)	Frequency Staility (ppm)
5190	5171.76	5208.24	5190.00	0.00
5230	5211.68	5248.24	5229.96	-0.04
5270	5251.68	5288.24	5269.96	-0.04
5310	5291.76	5328.32	5310.04	0.04

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 used in this product is PIFA Antenna for both WLAN and Bluetooth without connector and it is considered to meet antenna requirement of FCC.

5 List of Measuring Equipments

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)
3m Semi Anechoic	TDK	SAC-3M	03CH04-HY	30 MHz - 1 GHz 3m	Oct. 29, 2007	Oct. 28, 2008	Radiation (03CH04-HY)
Amplifier	HP	87405A	3950M00135	10MHz - 3 GHz	Mar. 02, 2007	Mar. 01, 2008	Radiation (03CH04-HY)
Spectrum Analyzer	R&S	FSP40	100305	9 kHz – 40GHz	Sep. 27, 2007	Sep. 26, 2008	Radiation (03CH04-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2724	30 MHz - 1 GHz	Aug. 13, 2007	Aug. 12 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)
RF Cable-R03m	Suhner Switzerland + RFIDEN	RG223/U +RG8/U	CB024	30 MHz - 1 GHz	Sep. 20, 2007	Sep. 19, 2008	Radiation (03CH04-HY)
Isolation Transformer	Erika FiedLer OHG	D-65396 Walluf	N/A	45 MHz – 2.15 GHz 30dB	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		$u(x_i)$	Ci	$Ci*u(x_i)$
	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 Γ1= 0.197 Antenna VSWR Γ2= 0.194 Uncertainty=20log(1-Γ1*Γ2*Γ3)	+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**				

The measured result is ：y dBuV ± U dB

for a level of confidence of approximately 95%，(k= 2)