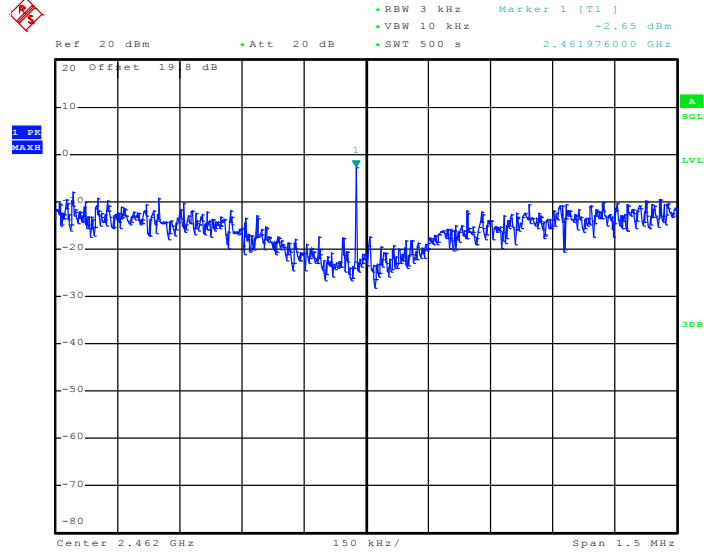




Mode 3 :

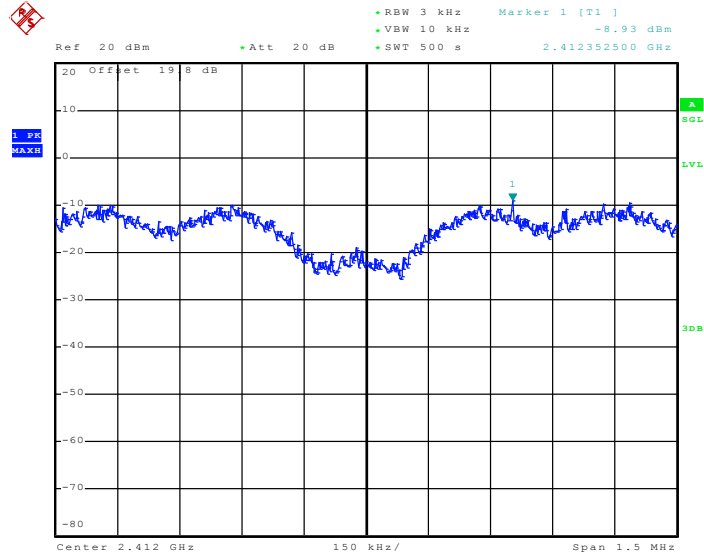
PSD Plot on 802.11b Channel 11 – Chain A



Date: 17.FEB.2011 18:40:35

Mode 4 :

PSD Plot on 802.11g Channel 01 – Chain B

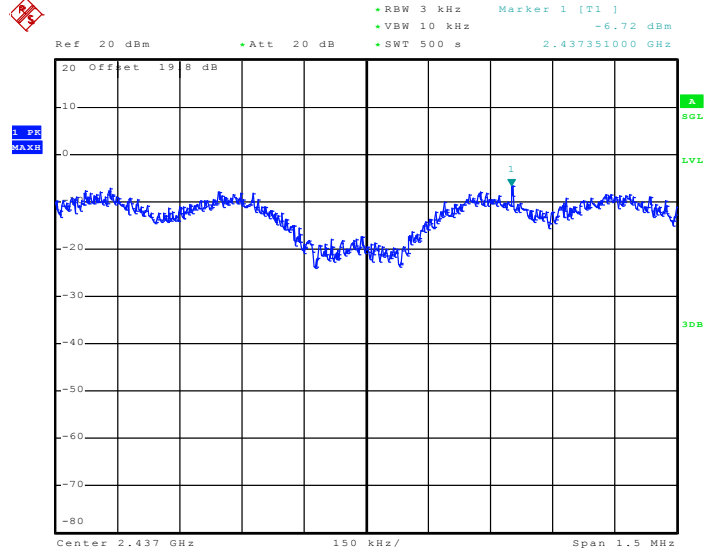


Date: 17.FEB.2011 19:35:45



Mode 5 :

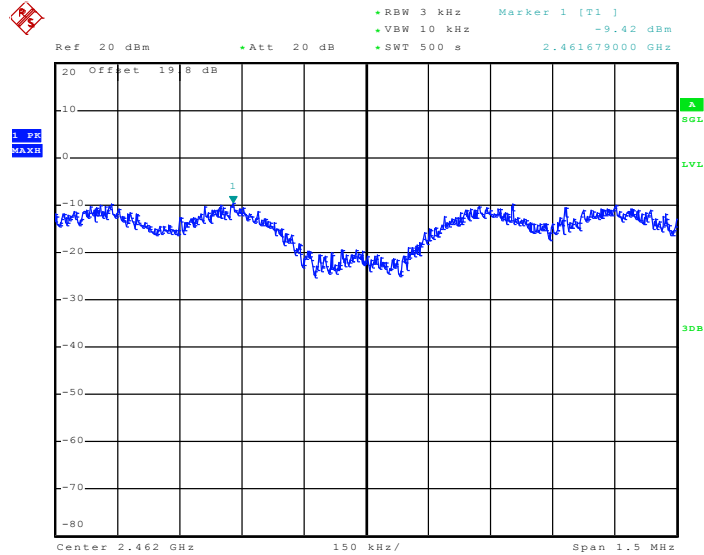
PSD Plot on 802.11g Channel 06 – Chain B



Date: 17.FEB.2011 19:50:19

Mode 6 :

PSD Plot on 802.11g Channel 11 – Chain B

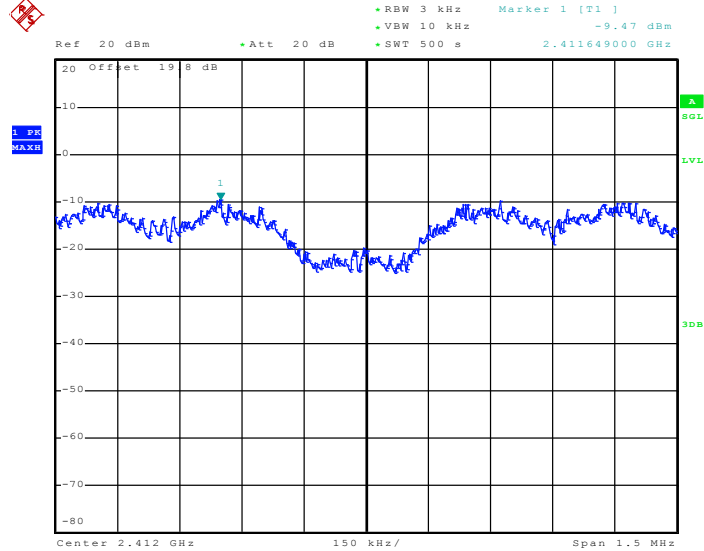


Date: 17.FEB.2011 20:07:56



Mode 7 :

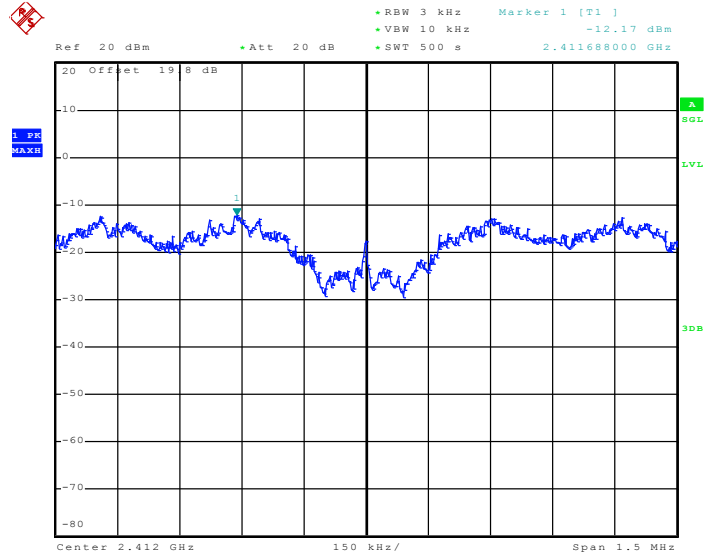
PSD Plot on 802.11n (BW 20MHz) Channel 01 – Chain B



Date: 17.FEB.2011 20:35:58

Mode 7 :

PSD Plot on 802.11n (BW 20MHz) Channel 01 – Chain A+B(A)

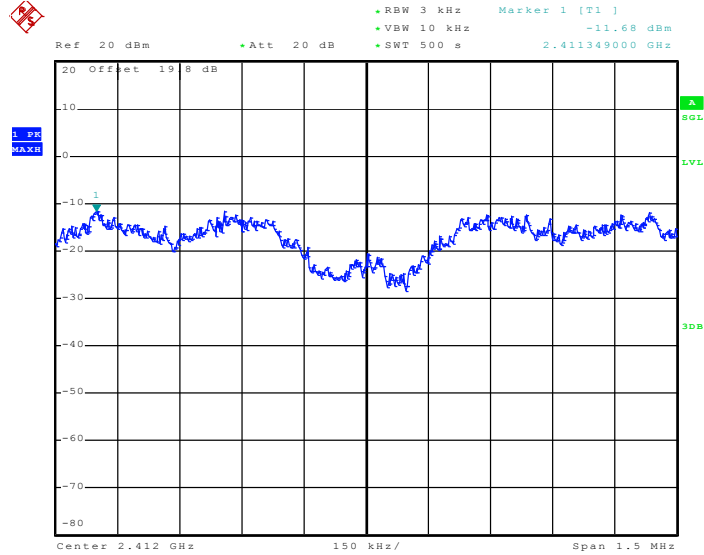


Date: 17.FEB.2011 22:37:44



Mode 7 :

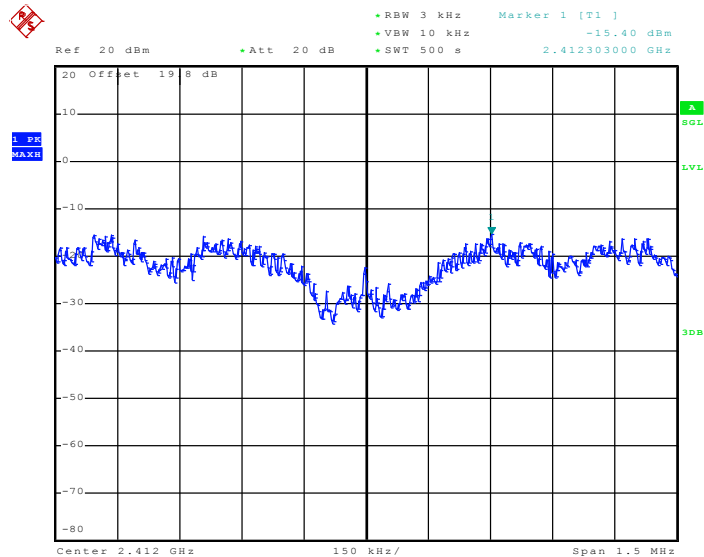
PSD Plot on 802.11n (BW 20MHz) Channel 01 – Chain A+B(B)



Date: 17.FEB.2011 23:24:34

Mode 7 :

PSD Plot on 802.11n (BW 20MHz) Channel 01 – Chain A+B+C(A)

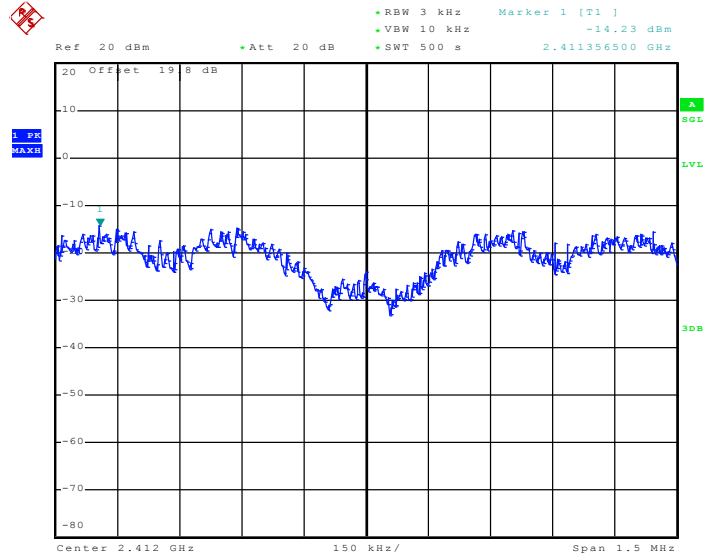


Date: 18.FEB.2011 01:49:46



Mode 7 :

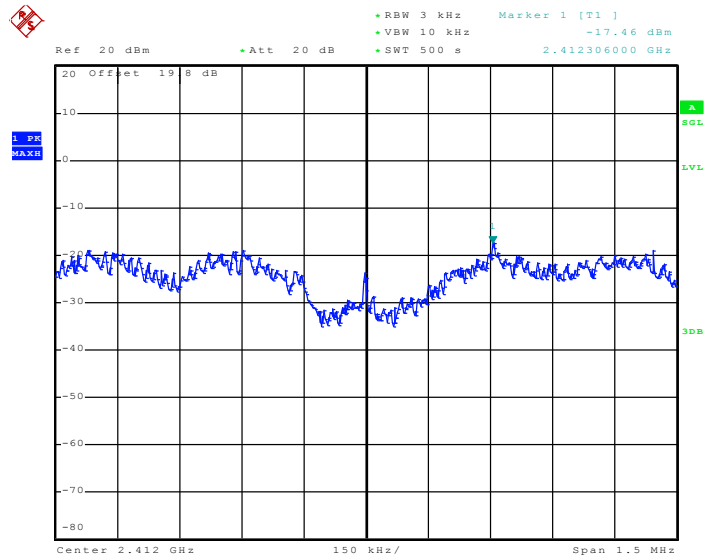
PSD Plot on 802.11n (BW 20MHz) Channel 01 – Chain A+B+C(B)



Date: 18.FEB.2011 02:34:08

Mode 7 :

PSD Plot on 802.11n (BW 20MHz) Channel 01 – Chain A+B+C(C)

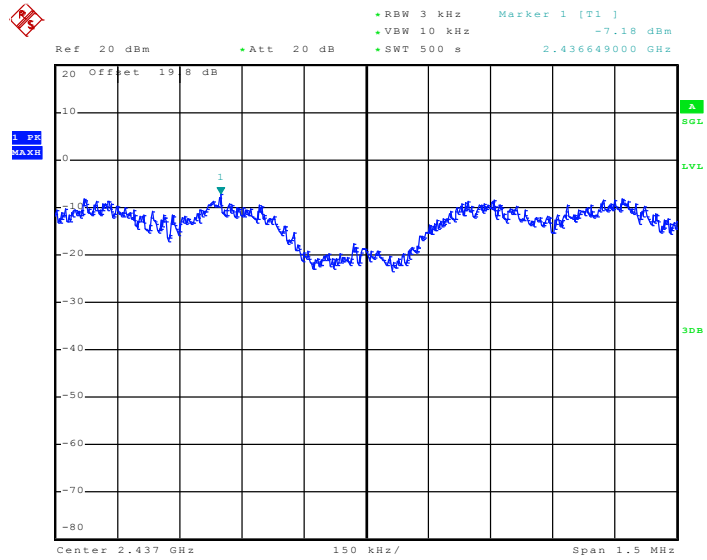


Date: 18.FEB.2011 03:18:46



Mode 8 :

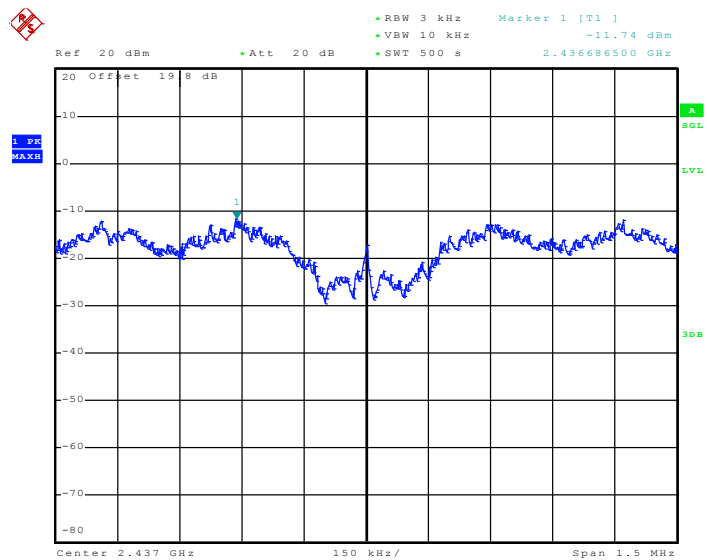
PSD Plot on 802.11n (BW 20MHz) Channel 06 – Chain B



Date: 17.FEB.2011 21:01:45

Mode 8 :

PSD Plot on 802.11n (BW 20MHz) Channel 06 – Chain A+B(A)

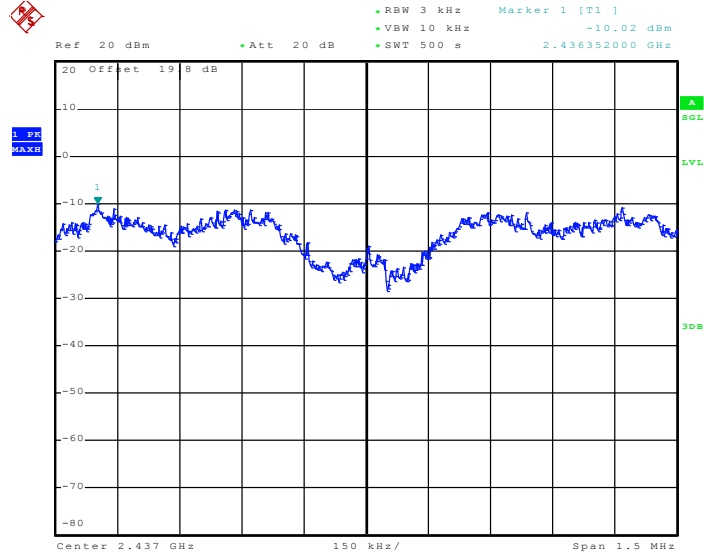


Date: 17.FEB.2011 22:51:03



Mode 8 :

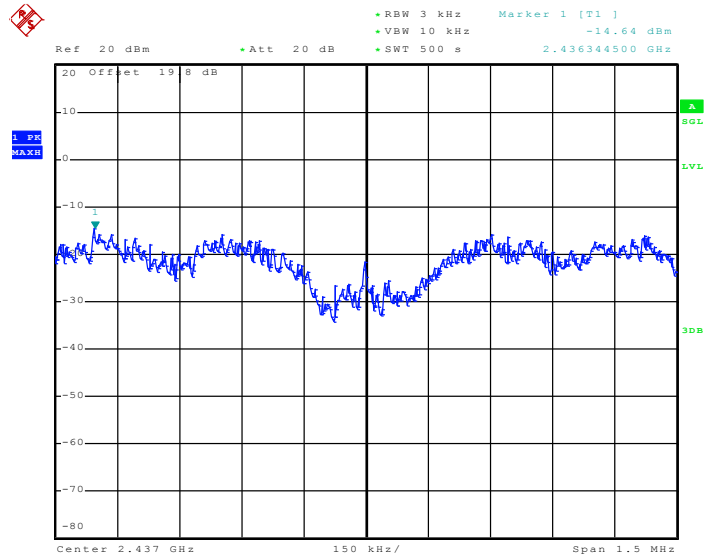
PSD Plot on 802.11n (BW 20MHz) Channel 06 – Chain A+B(B)



Date: 17.FEB.2011 23:37:37

Mode 8 :

PSD Plot on 802.11n (BW 20MHz) Channel 06 – Chain A+B+C(A)

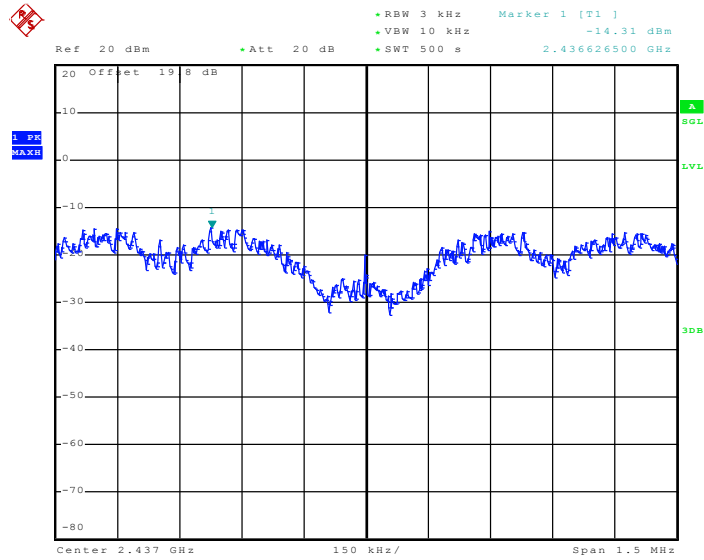


Date: 18.FEB.2011 02:02:27



Mode 8 :

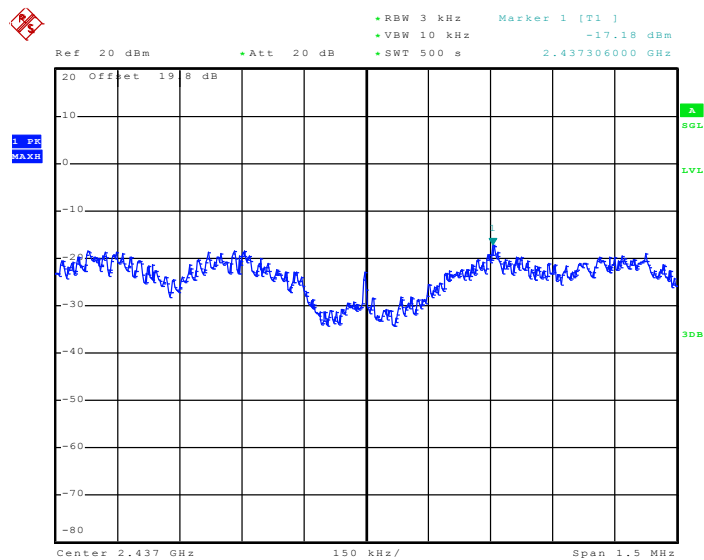
PSD Plot on 802.11n (BW 20MHz) Channel 06 – Chain A+B+C(B)



Date: 18.FEB.2011 02:46:27

Mode 8 :

PSD Plot on 802.11n (BW 20MHz) Channel 06 – Chain A+B+C(C)



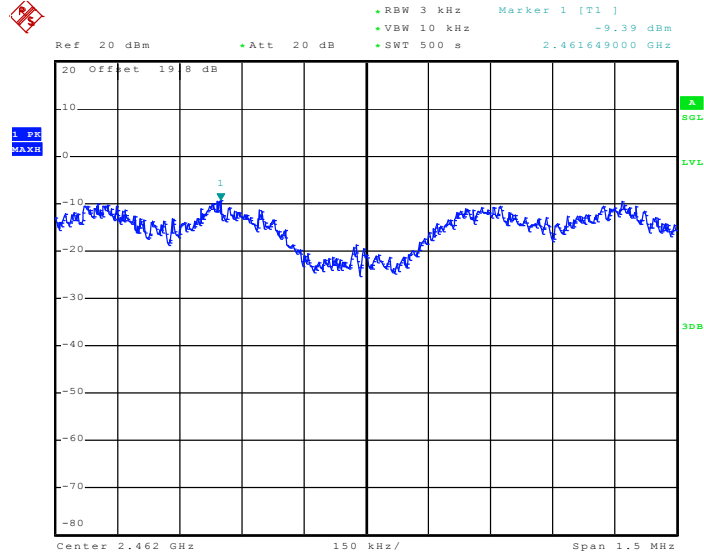
Date: 18.FEB.2011 03:30:27





Mode 9 :

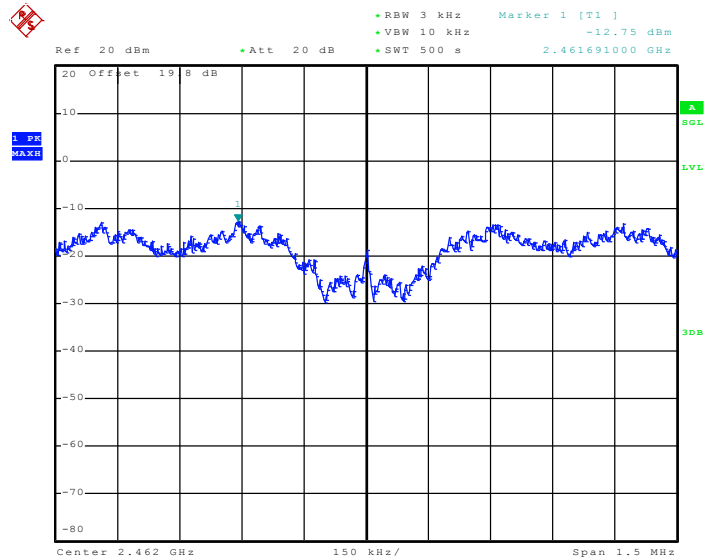
PSD Plot on 802.11n (BW 20MHz) Channel 11 – Chain B



Date: 17.FEB.2011 21:15:27

Mode 9 :

PSD Plot on 802.11n (BW 20MHz) Channel 11 – A+B(A)

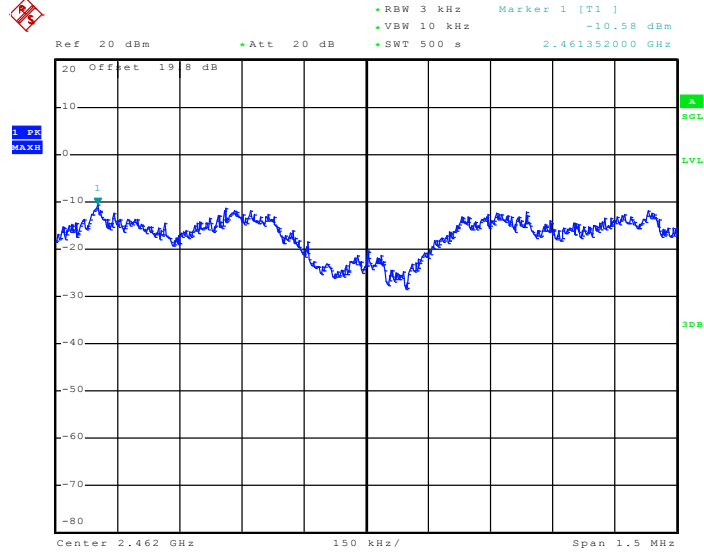


Date: 17.FEB.2011 23:04:58



Mode 9 :

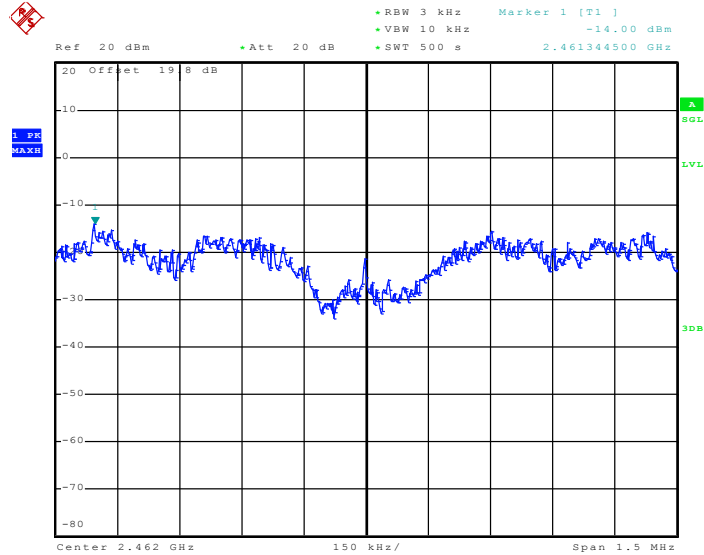
PSD Plot on 802.11n (BW 20MHz) Channel 11 – Chain A+B(B)



Date: 17.FEB.2011 23:50:43

Mode 9 :

PSD Plot on 802.11n (BW 20MHz) Channel 11 – A+B+C(A)

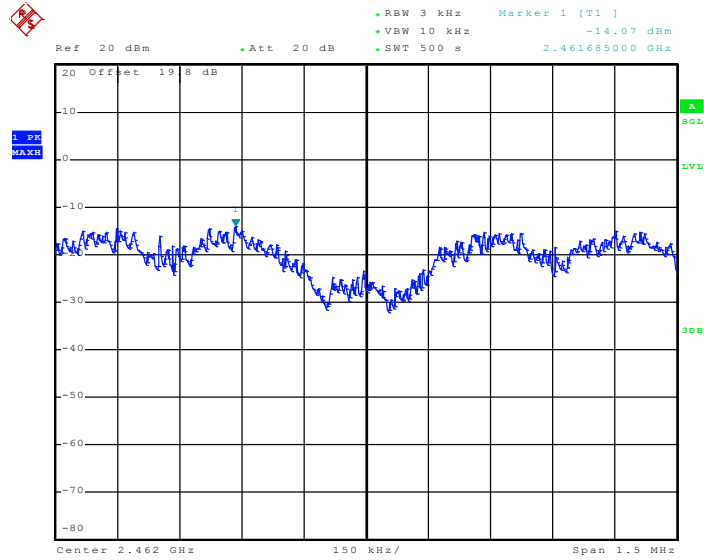


Date: 18.FEB.2011 02:16:42



Mode 9 :

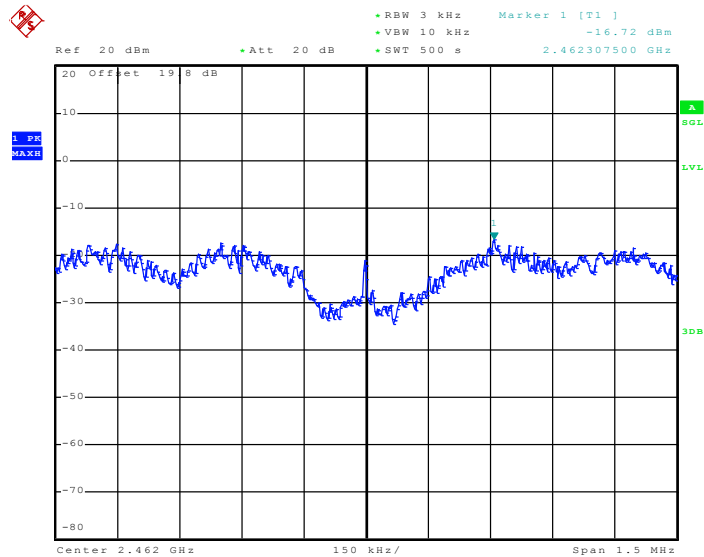
PSD Plot on 802.11n (BW 20MHz) Channel 11 – Chain A+B+C(B)



Date: 18.FEB.2011 02:59:55

Mode 9 :

PSD Plot on 802.11n (BW 20MHz) Channel 11 – Chain A+B+C(C)

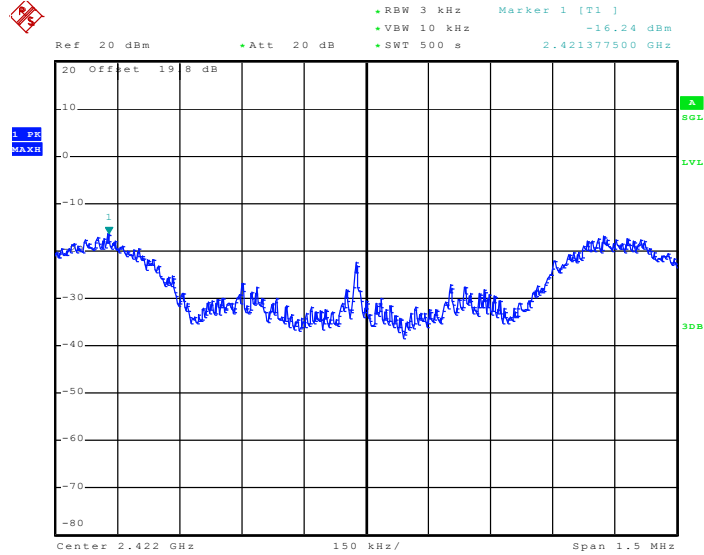


Date: 18.FEB.2011 03:43:28



Mode 10 :

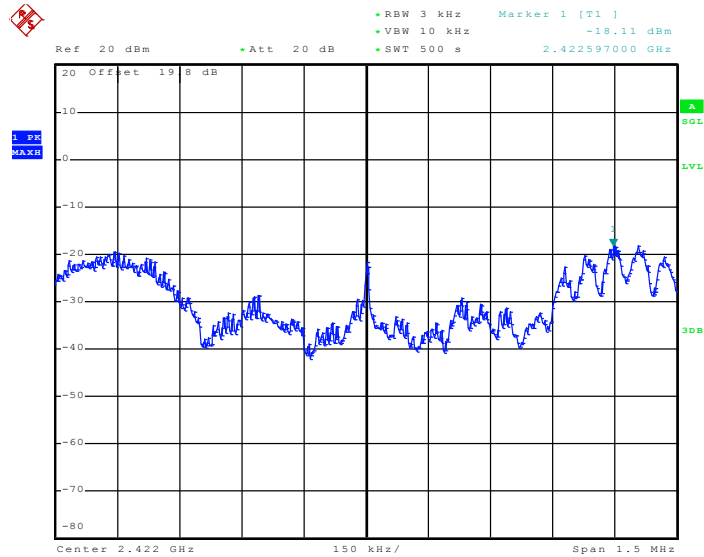
PSD Plot on 802.11n (BW 40MHz) Channel 03 – Chain A



Date: 17.FEB.2011 21:39:20

Mode 10 :

PSD Plot on 802.11n (BW 40MHz) Channel 03 – Chain A+B(A)

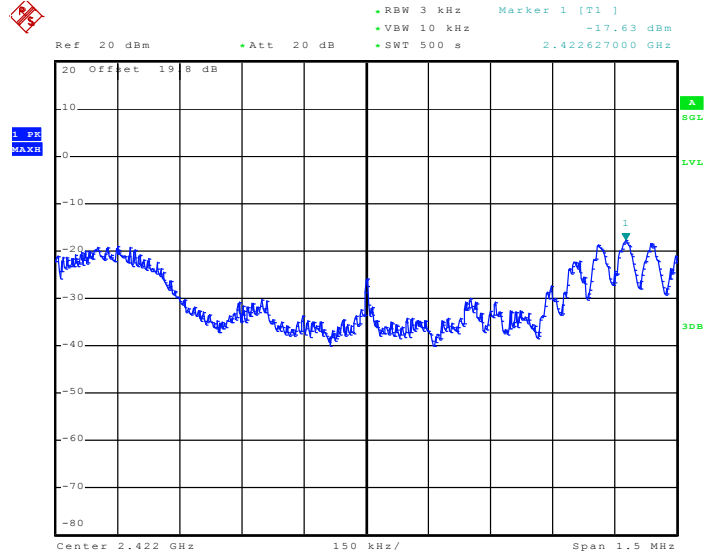


Date: 18.FEB.2011 01:03:32



Mode 10 :

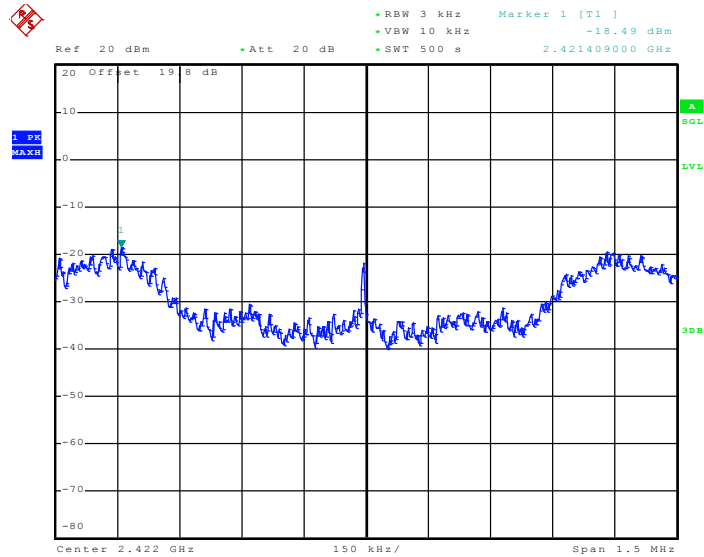
PSD Plot on 802.11n (BW 40MHz) Channel 03 – Chain A+B(B)



Date: 18.FEB.2011 00:10:38

Mode 10:

PSD Plot on 802.11n (BW 40MHz) Channel 03 – Chain A+B+C(A)

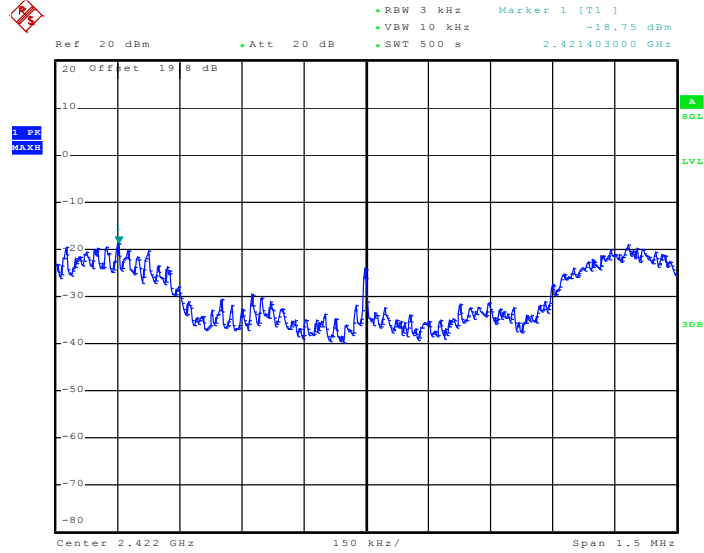


Date: 18.FEB.2011 05:22:58



Mode 10 :

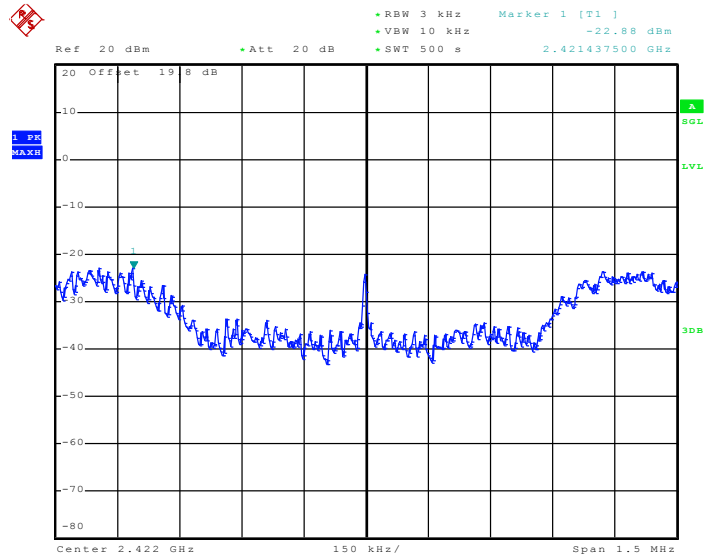
PSD Plot on 802.11n (BW 40MHz) Channel 03 – Chain A+B+C(B)



Date: 18.FEB.2011 04:41:19

Mode 10 :

PSD Plot on 802.11n (BW 40MHz) Channel 03 – Chain A+B+C(C)

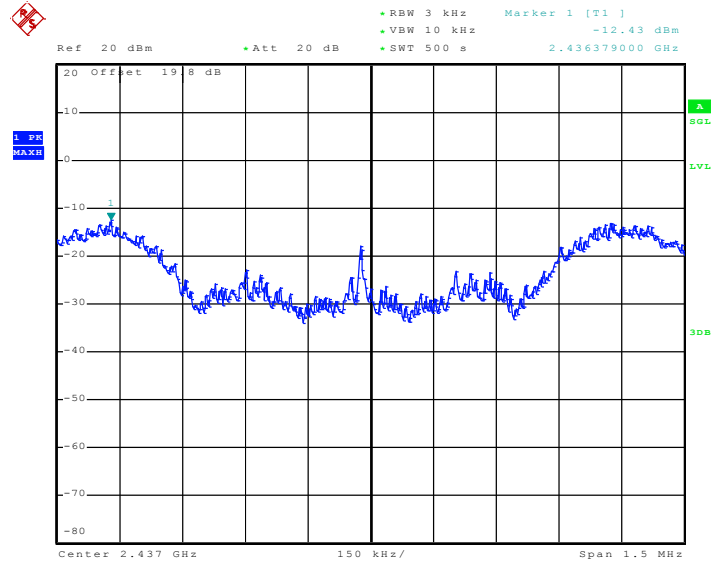


Date: 18.FEB.2011 04:00:16



Mode 11 :

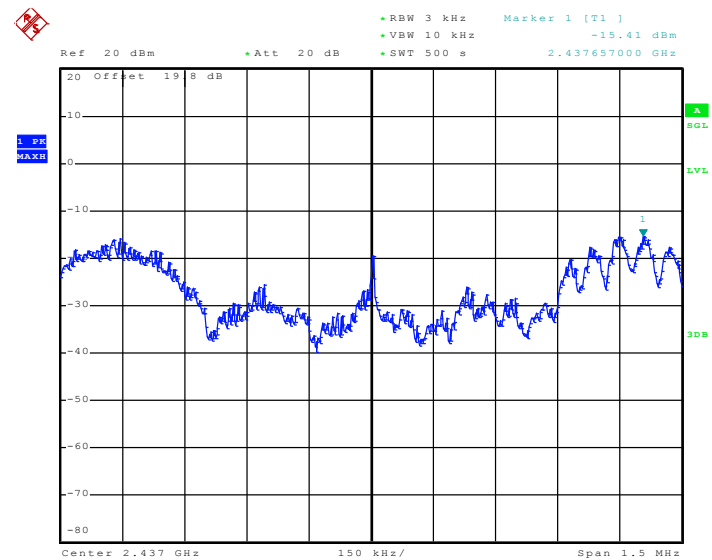
PSD Plot on 802.11n (BW 40MHz) Channel 06 – Chain A



Date: 17.FEB.2011 22:01:22

Mode 11 :

PSD Plot on 802.11n (BW 40MHz) Channel 06 – Chain A+B(A)

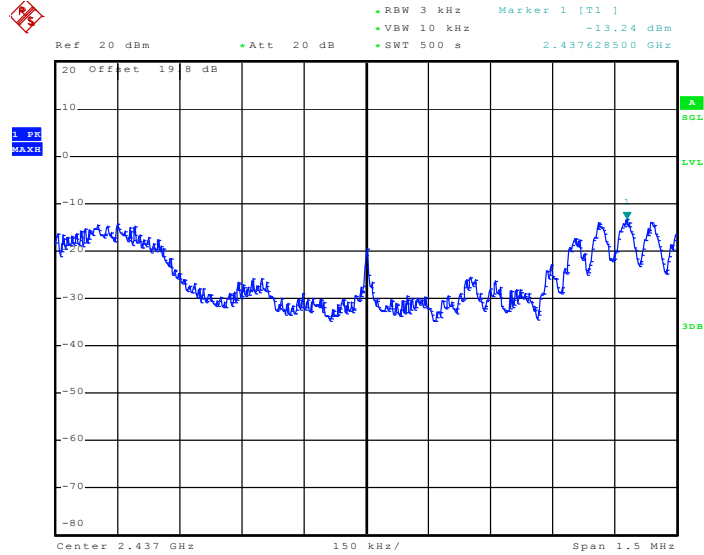


Date: 18.FEB.2011 01:17:33



Mode 11 :

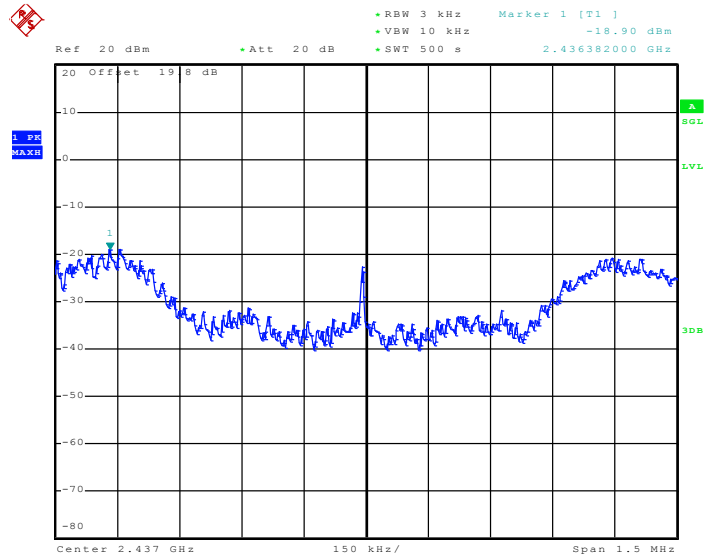
PSD Plot on 802.11n (BW 40MHz) Channel 06 – Chain A+B(B)



Date: 18.FEB.2011 00:23:12

Mode 11 :

PSD Plot on 802.11n (BW 40MHz) Channel 06 – Chain A+B+C(A)



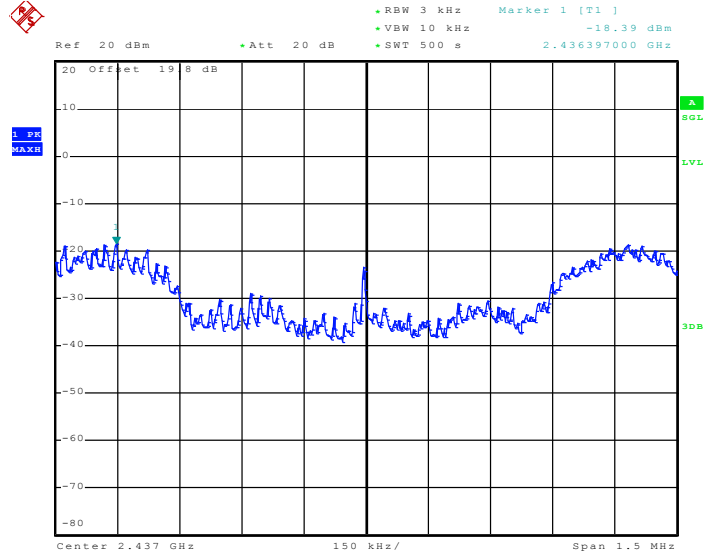
Date: 18.FEB.2011 05:40:29





Mode 11 :

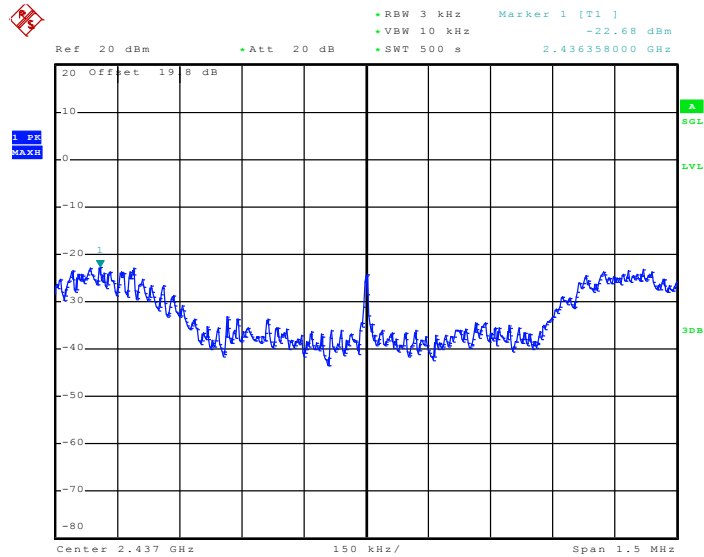
PSD Plot on 802.11n (BW 40MHz) Channel 06 – Chain A+B+C(B)



Date: 18.FEB.2011 04:53:50

Mode 11 :

PSD Plot on 802.11n (BW 40MHz) Channel 06 – Chain A+B+C(C)

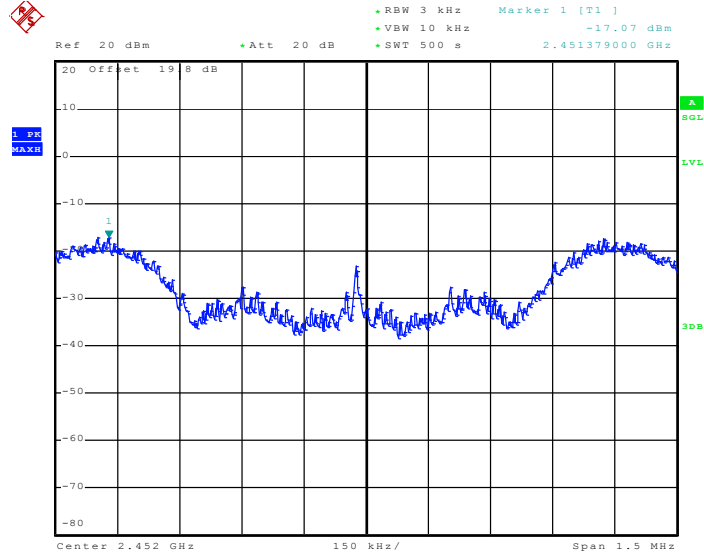


Date: 18.FEB.2011 04:14:09



Mode 12 :

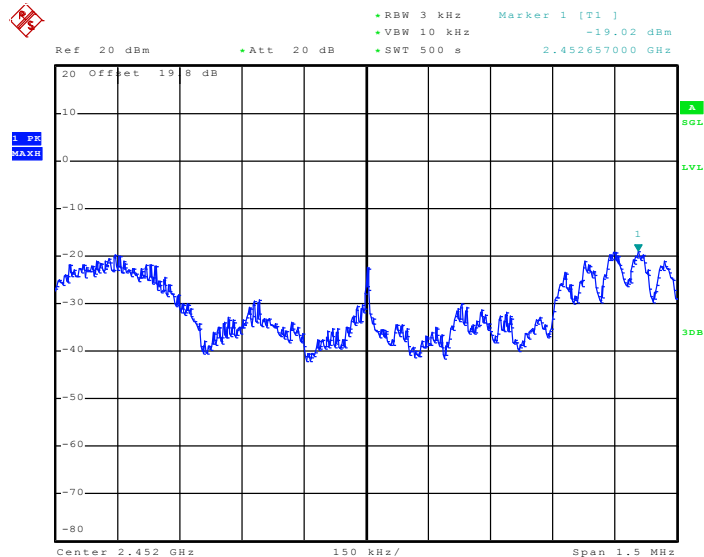
PSD Plot on 802.11n (BW 40MHz) Channel 09 – Chain A



Date: 17.FEB.2011 22:19:17

Mode 12 :

PSD Plot on 802.11n (BW 40MHz) Channel 09 – A+B(A)

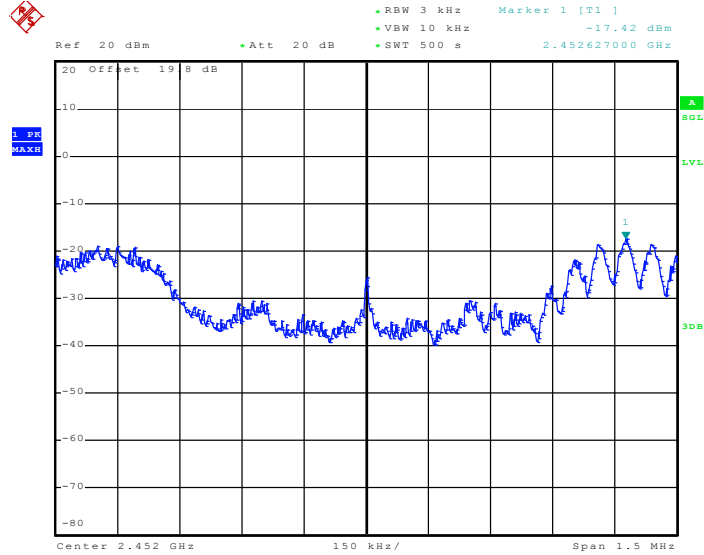


Date: 18.FEB.2011 01:31:15



Mode 12 :

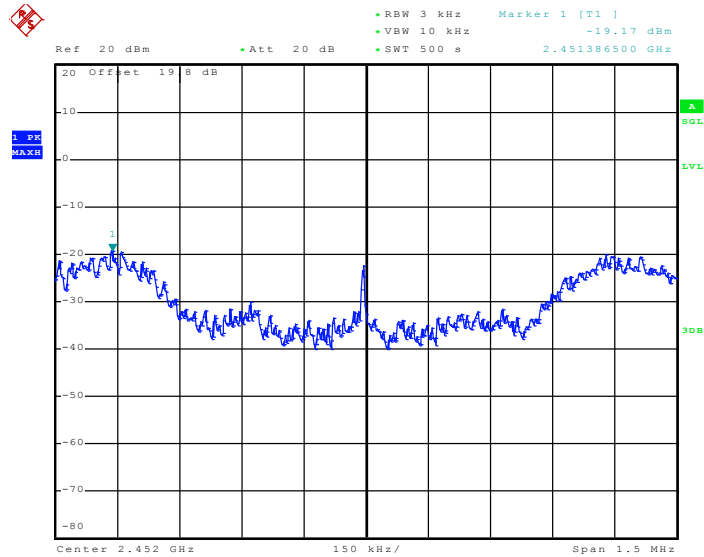
PSD Plot on 802.11n (BW 40MHz) Channel 09 – Chain A+B(B)



Date: 18.FEB.2011 00:37:42

Mode 12 :

PSD Plot on 802.11n (BW 40MHz) Channel 09 – A+B+C(A)

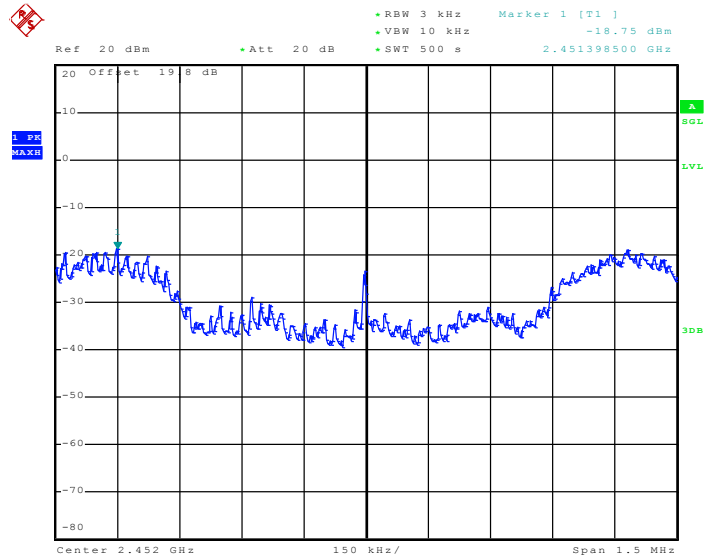


Date: 18.FEB.2011 05:54:10



Mode 12 :

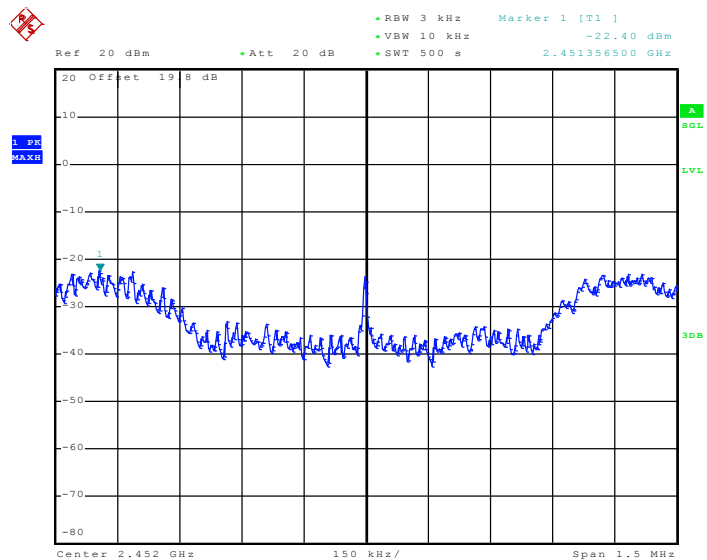
PSD Plot on 802.11n (BW 40MHz) Channel 09 – Chain A+B+C(B)



Date: 18.FEB.2011 05:05:31

Mode 12 :

PSD Plot on 802.11n (BW 40MHz) Channel 09 – Chain A+B+C(C)

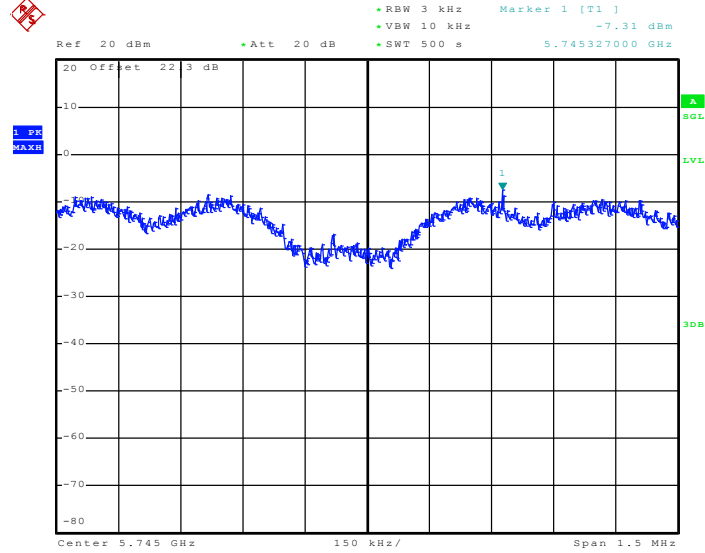


Date: 18.FEB.2011 04:26:03



Mode 13:

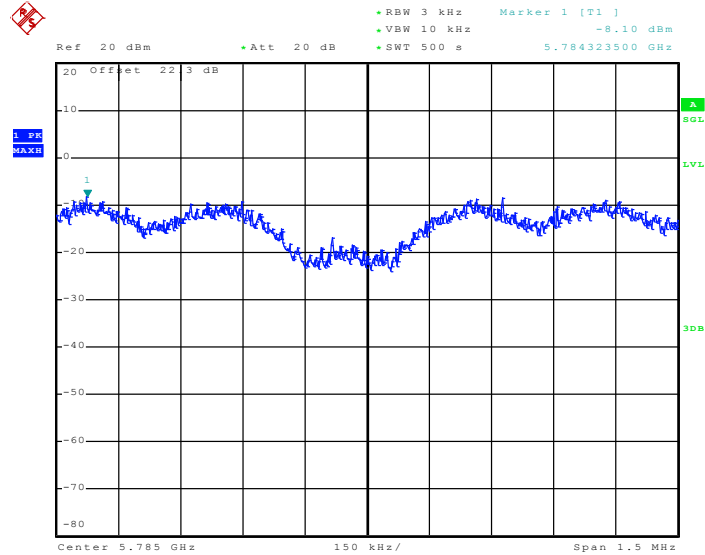
PSD Plot on 802.11a Channel 149 – Chain C



Date: 23.FEB.2011 02:06:26

Mode 14:

PSD Plot on 802.11a Channel 157 – Chain C

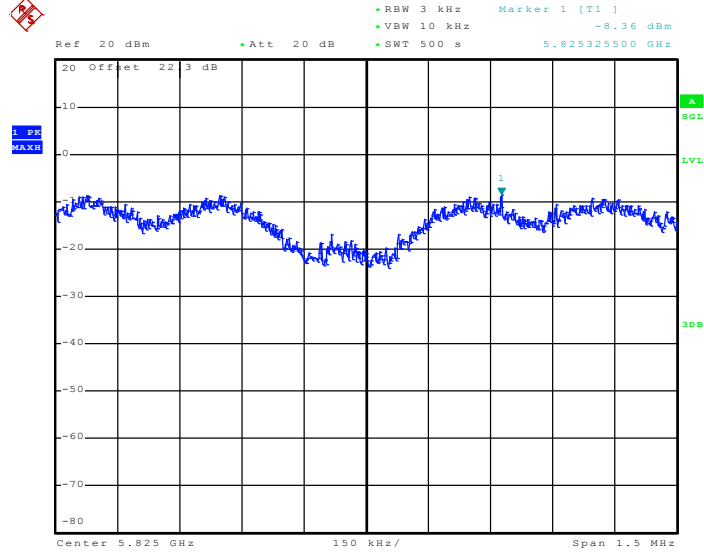


Date: 23.FEB.2011 02:22:43



Mode 15:

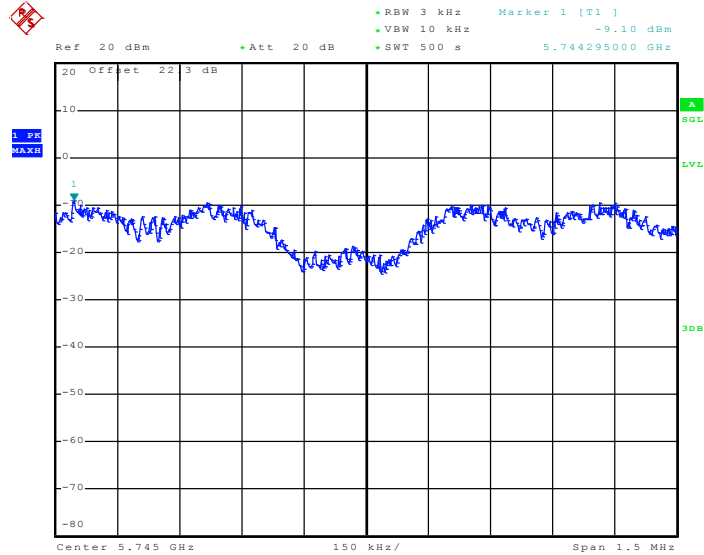
PSD Plot on 802.11a Channel 165 – Chain C



Date: 23.FEB.2011 02:34:48

Mode 16:

PSD Plot on 802.11n (BW 20MHz) Channel 149 – Chain C

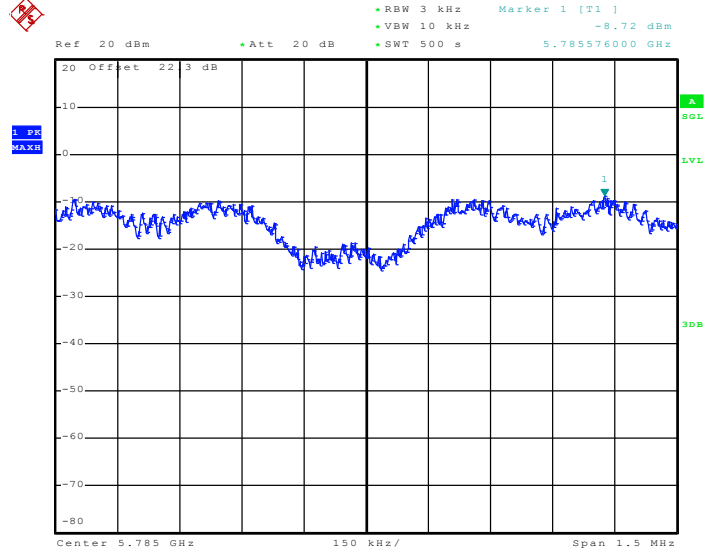


Date: 23.FEB.2011 02:48:14



Mode 17:

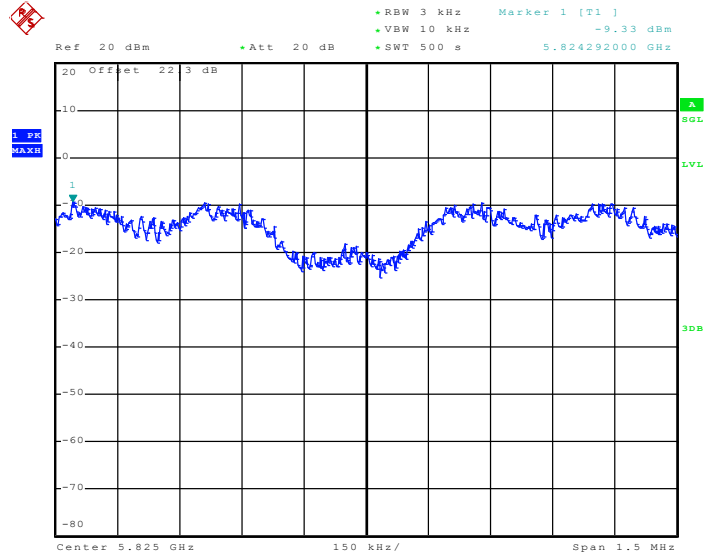
PSD Plot on 802.11n (BW 20MHz) Channel 157 – Chain C



Date: 23.FEB.2011 03:03:02

Mode 18:

PSD Plot on 802.11n (BW 20MHz) Channel 165 – Chain C

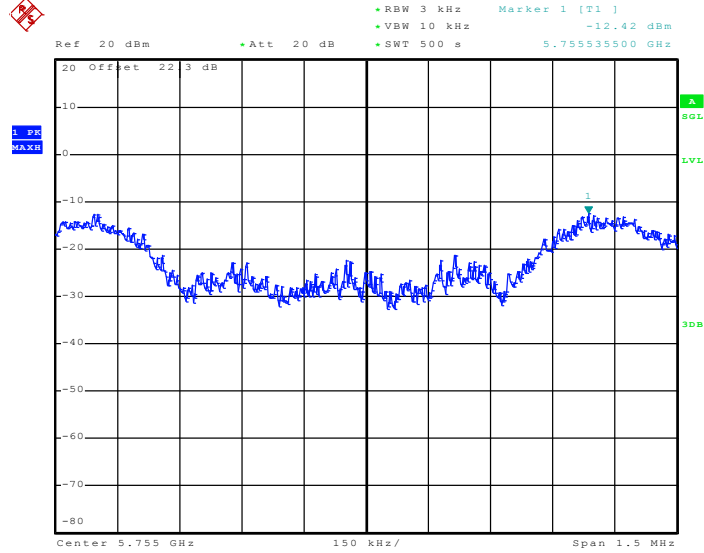


Date: 23.FEB.2011 03:16:30



Mode 19:

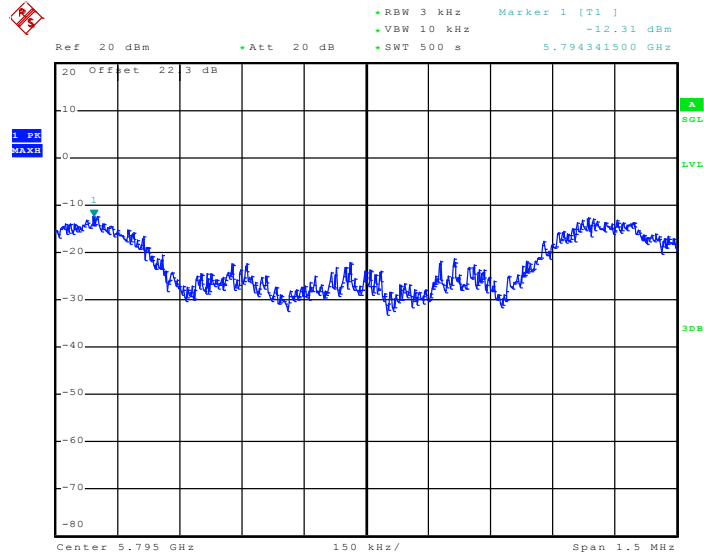
PSD Plot on 802.11n (BW 40MHz) Channel 151 – Chain C



Date: 23.FEB.2011 03:33:31

Mode 20:

PSD Plot on 802.11n (BW 40MHz) Channel 159 – Chain C



Date: 23.FEB.2011 03:46:19



## 3.6 AC Conducted Emission Measurement

### 3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

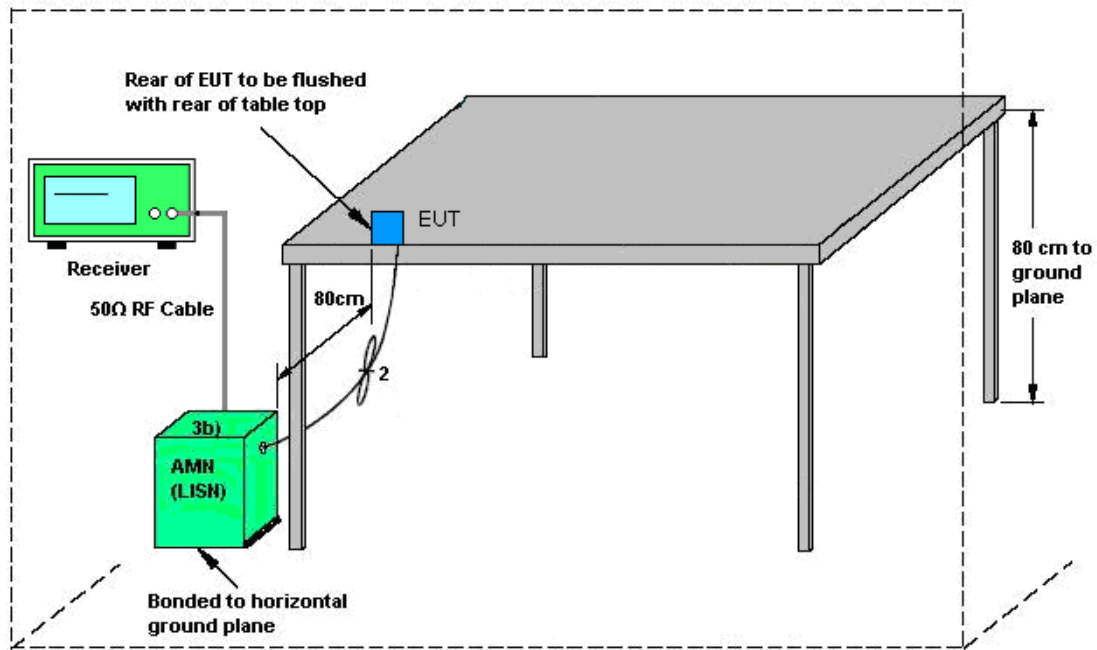
### 3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.6.3 Test Procedures

4. The testing follows the guidelines in ANSI C63.4-2003.
5. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
6. Connect EUT to the power mains through a line impedance stabilization network (LISN).
7. All the support units are connecting to the other LISN.
8. The LISN provides 50 ohm coupling impedance for the measuring instrument.
9. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
10. Both sides of AC line were checked for maximum conducted interference.
11. The frequency range from 150 kHz to 30 MHz was searched.
12. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

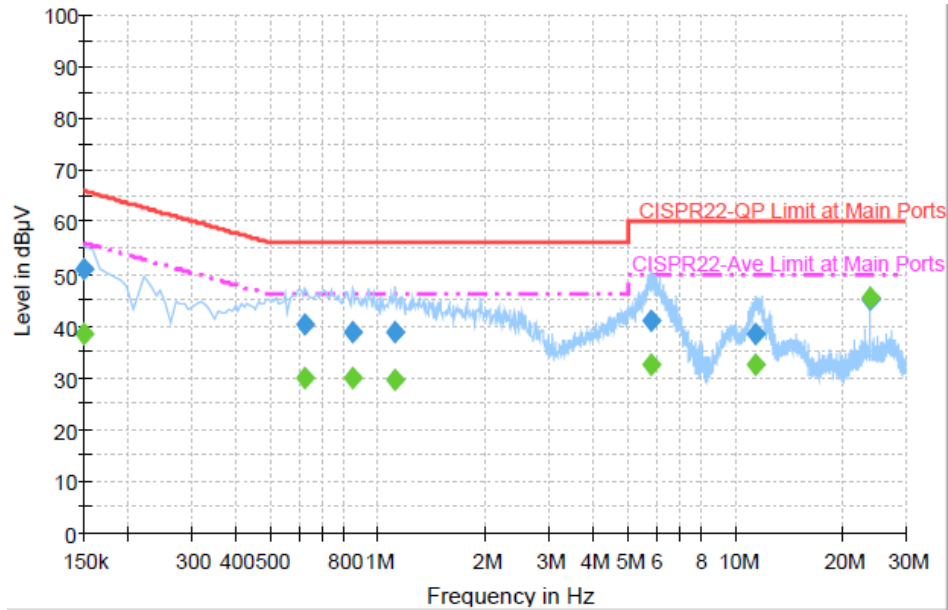
### 3.6.4 Test Setup



AMN = Artificial mains network (LISH)  
AE = Associated equipment  
EUT = Equipment under test  
ISN = Impedance stabilization network

### 3.6.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	20~22°C
Test Engineer :	Novic Chiang	Relative Humidity :	40~42%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN Link + Bluetooth Link + Adapter + TC		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



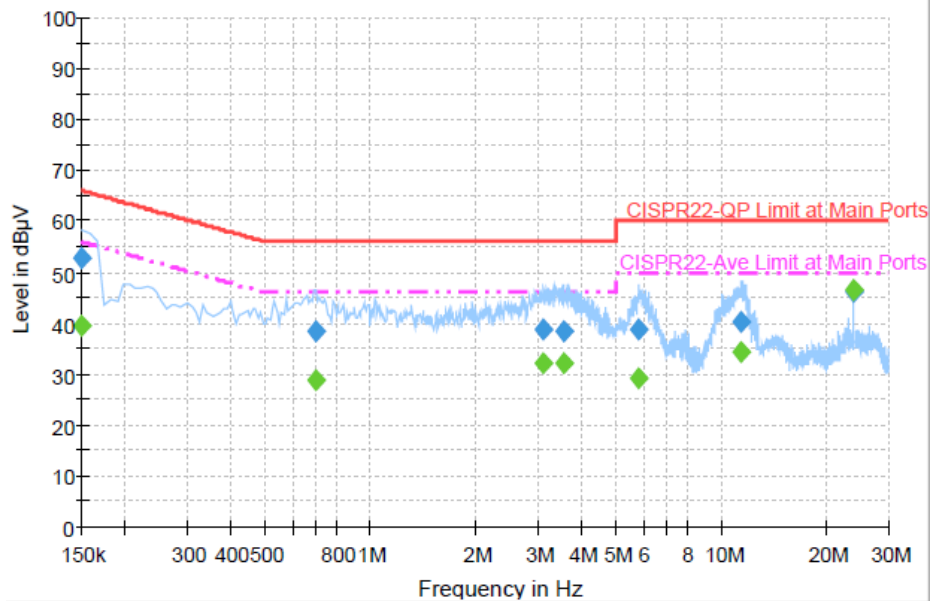
#### Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	51.0	Off	L1	19.5	15.0	66.0
0.622000	40.4	Off	L1	19.5	15.6	56.0
0.846000	38.8	Off	L1	19.5	17.2	56.0
1.118000	38.8	Off	L1	19.5	17.2	56.0
5.782000	41.0	Off	L1	19.5	19.0	60.0
11.430000	38.6	Off	L1	19.6	21.4	60.0
23.998000	45.1	Off	L1	19.7	14.9	60.0

#### Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	38.4	Off	L1	19.5	17.6	56.0
0.622000	29.7	Off	L1	19.5	16.3	46.0
0.846000	29.9	Off	L1	19.5	16.1	46.0
1.118000	29.4	Off	L1	19.5	16.6	46.0
5.782000	32.6	Off	L1	19.5	17.4	50.0
11.430000	32.3	Off	L1	19.6	17.7	50.0
23.998000	45.5	Off	L1	19.7	4.5	50.0

Test Mode :	Mode 1	Temperature :	20~22°C
Test Engineer :	Novic Chiang	Relative Humidity :	40~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN Link + Bluetooth Link + Adapter + TC		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	52.6	Off	N	19.5	13.4	66.0
0.702000	38.4	Off	N	19.5	17.6	56.0
3.102000	38.8	Off	N	19.5	17.2	56.0
3.574000	38.3	Off	N	19.5	17.7	56.0
5.790000	38.6	Off	N	19.5	21.4	60.0
11.366000	40.2	Off	N	19.6	19.8	60.0
23.998000	46.1	Off	N	19.9	13.9	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	39.5	Off	N	19.5	16.5	56.0
0.702000	28.7	Off	N	19.5	17.3	46.0
3.102000	32.2	Off	N	19.5	13.8	46.0
3.574000	31.9	Off	N	19.5	14.1	46.0
5.790000	29.1	Off	N	19.5	20.9	50.0
11.366000	34.4	Off	N	19.6	15.6	50.0
23.998000	46.4	Off	N	19.9	3.6	50.0

### 3.7 Radiated Emission Measurement

#### 3.7.1 Limit of Radiated Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

#### 3.7.2 Measuring Instruments

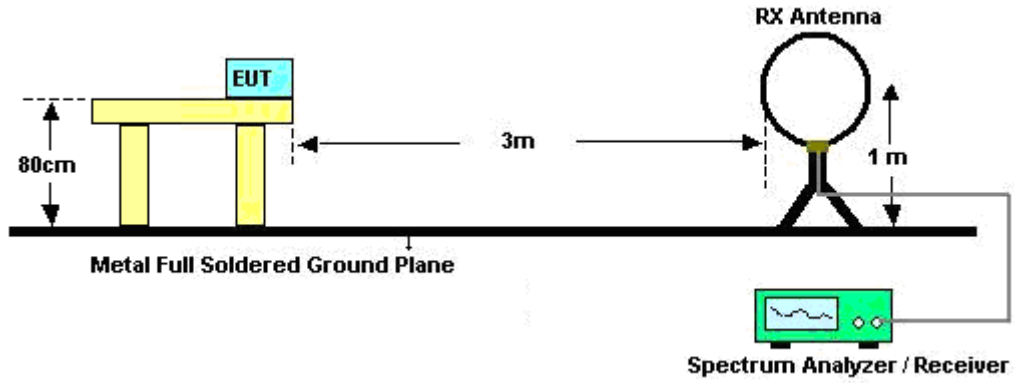
See list of measuring instruments of this test report.

#### 3.7.3 Test Procedures

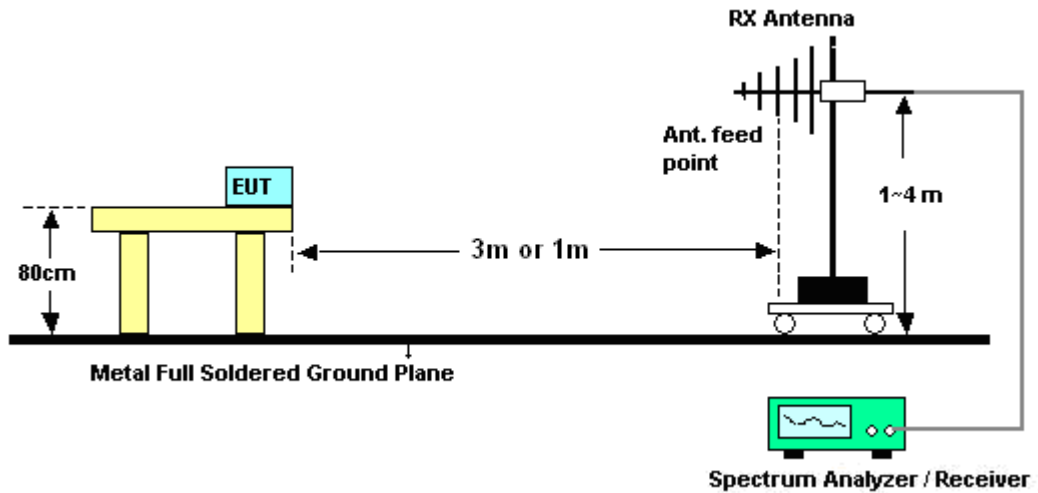
- The testing follows the guidelines in FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
- Use the following spectrum analyzer settings:
  - Span = wide enough to fully capture the emission being measured; RBW = 1 MHz for  $f \geq 1$  GHz, 100 kHz for  $f < 1$  GHz; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold.
  - Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.  
 Distance extrapolation factor =  $20 \log(\text{specific distance [3m]} / \text{test distance [1m]})$  (dB)
- Follow the guidelines in ANSI C63.4-2003 with respect to maximizing the emission by rotating the EUT, measuring the emission for three EUT orthogonal planes, and adjusting the measurement antenna height and polarization. A pre-amp and a high pass filter are used for this test in order to get the good signal level.

### 3.7.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz





3.7.5 Test Results of Radiated Emissions (9kHz ~ 30MHz)

Test Engineer :	Ivan Chiang	Temperature :	23~24°C	
		Relative Humidity :	50~51%	
Frequency (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =  $40 \log(\text{specific distance} / \text{test distance})$  (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.



3.7.6 Test Result of Radiated Emission (30MHz ~ 25<sup>th</sup> Harmonic)

Test Mode :	Mode 1	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	50~51%
Test Engineer :	Ivan Chiang	Polarization :	Horizontal
Remark :	2412 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level (dBuV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
162.3	25.19	-18.31	43.5	45.23	10.26	1.22	31.52	-	-	Peak
233.58	31.42	-14.58	46	49.85	11.5	1.5	31.43	-	-	Peak
287.85	34.19	-11.81	46	50.57	13.27	1.68	31.33	-	-	Peak
309.8	33.58	-12.42	46	49.36	13.76	1.79	31.33	-	-	Peak
365.8	35.92	-10.08	46	49.6	15.51	2.07	31.26	100	124	Peak
430.9	31.14	-14.86	46	42.95	17.07	2.25	31.13	-	-	Peak
2389.99	46.39	-7.61	54	42.03	32.18	6.03	33.85	151	348	Average
2389.99	61.68	-12.32	74	57.32	32.18	6.03	33.85	151	348	Peak
2412	104.25	-	-	99.85	32.2	6.07	33.87	151	348	Average
2412	108.14	-	-	103.74	32.2	6.07	33.87	151	348	Peak
2484	45.86	-28.14	74	41.3	32.28	6.18	33.9	151	348	Peak
2484	33.76	-20.24	54	29.2	32.28	6.18	33.9	151	348	Average
4824	52.74	-21.26	74	66	34.07	9.12	56.45	100	306	Peak
4824	48.15	-5.85	54	61.41	34.07	9.12	56.45	100	306	Average





<b>Test Mode :</b>	Mode 1	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	01	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	2412 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
31.62	26.29	-13.71	40	41.16	16.04	0.55	31.46	-	-	Peak
105.06	28.52	-14.98	43.5	48.85	10.2	1.02	31.55	-	-	Peak
206.85	30.48	-13.02	43.5	51.02	9.58	1.35	31.47	104	48	Peak
309.8	29.54	-16.46	46	45.32	13.76	1.79	31.33	-	-	Peak
365.8	28.42	-17.58	46	42.1	15.51	2.07	31.26	-	-	Peak
699.7	25.99	-20.01	46	32.99	20.88	2.94	30.82	-	-	Peak
2389.99	60.2	-13.8	74	55.84	32.18	6.03	33.85	118	315	Peak
2389.99	46.38	-7.62	54	42.02	32.18	6.03	33.85	118	315	Average
2412	108.17	-	-	103.77	32.2	6.07	33.87	118	315	Peak
2412	104.67	-	-	100.27	32.2	6.07	33.87	118	315	Average
2486	33.52	-20.48	54	28.96	32.28	6.18	33.9	118	315	Average
2486	45.4	-28.6	74	40.84	32.28	6.18	33.9	118	315	Peak
4824	56.17	-17.83	74	69.43	34.07	9.12	56.45	100	331	Peak
4824	51.44	-2.56	54	64.7	34.07	9.12	56.45	100	331	Average



<b>Test Mode :</b>	Mode 2	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	06	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	2437 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
213.33	30	-13.5	43.5	50.03	10.06	1.38	31.47	-	-	Peak
233.58	31.74	-14.26	46	50.17	11.5	1.5	31.43	-	-	Peak
287.85	33.06	-12.94	46	49.44	13.27	1.68	31.33	-	-	Peak
307	34.43	-11.57	46	50.27	13.7	1.79	31.33	114	201	Peak
383.3	33.97	-12.03	46	47.04	16.05	2.11	31.23	-	-	Peak
430.9	31.08	-14.92	46	42.89	17.07	2.25	31.13	-	-	Peak
2390	48.63	-25.37	74	44.27	32.18	6.03	33.85	177	345	Peak
2390	35.43	-18.57	54	31.07	32.18	6.03	33.85	177	345	Average
2437	106.03	-	-	101.58	32.22	6.11	33.88	177	345	Peak
2437	102.74	-	-	98.27	32.24	6.11	33.88	177	345	Average
2484	45.83	-28.17	74	41.27	32.28	6.18	33.9	177	345	Peak
2484	33.31	-20.69	54	28.75	32.28	6.18	33.9	177	345	Average
4874	51.12	-22.88	74	64.4	34.08	9.13	56.49	117	25	Peak
4874	42.84	-11.16	54	56.12	34.08	9.13	56.49	117	25	Average



<b>Test Mode :</b>	Mode 2	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	06	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	2437 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
47.01	25.25	-14.75	40	46.62	9.48	0.67	31.52	-	-	Peak
213.33	30.99	-12.51	43.5	51.02	10.06	1.38	31.47	100	174	Peak
287.85	27.38	-18.62	46	43.76	13.27	1.68	31.33	-	-	Peak
310.5	30.73	-15.27	46	46.47	13.79	1.79	31.32	-	-	Peak
365.8	28.15	-17.85	46	41.83	15.51	2.07	31.26	-	-	Peak
900.6	27.49	-18.51	46	31.21	23.64	3.34	30.7	-	-	Peak
2390	50.73	-23.27	74	46.37	32.18	6.03	33.85	138	317	Peak
2390	35.58	-18.42	54	31.22	32.18	6.03	33.85	138	317	Average
2437	107.22	-	-	102.75	32.24	6.11	33.88	138	317	Peak
2437	103.35	-	-	98.88	32.24	6.11	33.88	138	317	Average
2484	47.58	-26.42	74	43.02	32.28	6.18	33.9	138	317	Peak
2484	34.02	-19.98	54	29.46	32.28	6.18	33.9	138	317	Average
4874	56.38	-17.62	74	69.66	34.08	9.13	56.49	100	26	Peak
4874	50.16	-3.84	54	63.44	34.08	9.13	56.49	100	26	Average



<b>Test Mode :</b>	Mode 3	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	11	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	2462 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
163.38	24.59	-18.91	43.5	44.75	10.14	1.22	31.52	-	-	Peak
233.58	31.89	-14.11	46	50.32	11.5	1.5	31.43	-	-	Peak
287.85	32.52	-13.48	46	48.9	13.27	1.68	31.33	-	-	Peak
309.8	34.51	-11.49	46	50.29	13.76	1.79	31.33	-	-	Peak
365.8	35.08	-10.92	46	48.76	15.51	2.07	31.26	122	263	Peak
430.9	30.83	-15.17	46	42.64	17.07	2.25	31.13	-	-	Peak
2366	47.29	-26.71	74	43.01	32.13	5.99	33.84	116	192	Peak
2366	34.59	-19.41	54	30.31	32.13	5.99	33.84	116	192	Average
2462	102.72	-	-	98.21	32.26	6.14	33.89	116	192	Average
2462	106.26	-	-	101.75	32.26	6.14	33.89	116	192	Peak
2483.5	58.77	-15.23	74	54.21	32.28	6.18	33.9	116	192	Peak
2483.5	41.19	-12.81	54	36.63	32.28	6.18	33.9	116	192	Average
4924	52.14	-21.86	74	65.42	34.09	9.15	56.52	102	266	Peak
4924	44.77	-9.23	54	58.05	34.09	9.15	56.52	102	266	Average



<b>Test Mode :</b>	Mode 3	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	11	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	2462 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
120.18	27.76	-15.74	43.5	46.69	11.53	1.1	31.56	-	-	Peak
213.33	30.25	-13.25	43.5	50.28	10.06	1.38	31.47	100	252	Peak
282.45	28.25	-17.75	46	44.76	13.18	1.65	31.34	-	-	Peak
309.8	30.79	-15.21	46	46.57	13.76	1.79	31.33	-	-	Peak
500.2	25	-21	46	35.39	18.23	2.45	31.07	-	-	Peak
666.1	26.11	-19.89	46	33.58	20.51	2.87	30.85	-	-	Peak
2372	46.46	-27.54	74	42.15	32.16	5.99	33.84	114	312	Peak
2372	34.33	-19.67	54	30.02	32.16	5.99	33.84	114	312	Average
2462	107.22	-	-	102.71	32.26	6.14	33.89	114	312	Peak
2462	103.49	-	-	98.98	32.26	6.14	33.89	114	312	Average
2483.5	62.52	-11.48	74	57.96	32.28	6.18	33.9	114	312	Peak
2483.5	43.68	-10.32	54	39.12	32.28	6.18	33.9	114	312	Average
4924	56.41	-17.59	74	69.69	34.09	9.15	56.52	110	13	Peak
4924	50.23	-3.77	54	63.51	34.09	9.15	56.52	110	13	Average
7386	49.82	-24.18	74	61.27	35.38	10.1	56.93	100	0	Peak



<b>Test Mode :</b>	Mode 4	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	01	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	2412 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2389.99	45.39	-8.61	54	41.03	32.18	6.03	33.85	108	8	Average
2389.99	65.43	-8.57	74	61.07	32.18	6.03	33.85	108	8	Peak
2412	100.47	-	-	96.07	32.2	6.07	33.87	108	8	Average
2412	110.44	-	-	106.04	32.2	6.07	33.87	108	8	Peak
2492	47.13	-26.87	74	42.55	32.3	6.18	33.9	108	8	Peak
2492	34.21	-19.79	54	29.63	32.3	6.18	33.9	108	8	Average

<b>Test Mode :</b>	Mode 4	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	01	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	2412 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2389.99	42.96	-11.04	54	38.6	32.18	6.03	33.85	149	67	Average
2389.99	63.1	-10.9	74	58.74	32.18	6.03	33.85	149	67	Peak
2412	98.72	-	-	94.32	32.2	6.07	33.87	149	67	Average
2412	109	-	-	104.6	32.2	6.07	33.87	149	67	Peak
2486	46.5	-27.5	74	41.94	32.28	6.18	33.9	149	67	Peak
2486	33.35	-20.65	54	28.79	32.28	6.18	33.9	149	67	Average



<b>Test Mode :</b>	Mode 5	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	06	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	2437 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2390	35.48	-18.52	54	31.12	32.18	6.03	33.85	171	17	Average
2390	49.9	-24.1	74	45.54	32.18	6.03	33.85	171	17	Peak
2437	101.7	-	-	97.23	32.24	6.11	33.88	171	17	Average
2437	112.61	-	-	108.14	32.24	6.11	33.88	171	17	Peak
2484	35.1	-18.9	54	30.54	32.28	6.18	33.9	171	17	Average
2484	47.4	-26.6	74	42.84	32.28	6.18	33.9	171	17	Peak

<b>Test Mode :</b>	Mode 5	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	06	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	2437 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2390	36.23	-17.77	54	31.87	32.18	6.03	33.85	115	48	Average
2390	51.79	-22.21	74	47.43	32.18	6.03	33.85	115	48	Peak
2437	99.13	-	-	94.66	32.24	6.11	33.88	115	48	Average
2437	109.18	-	-	104.71	32.24	6.11	33.88	115	48	Peak
2486	34.68	-19.32	54	30.12	32.28	6.18	33.9	115	48	Average
2486	47.71	-26.29	74	43.15	32.28	6.18	33.9	115	48	Peak



<b>Test Mode :</b>	Mode 6	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	11	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	2462 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2334	34.76	-19.24	54	30.55	32.09	5.95	33.83	195	10	Average
2334	46.34	-27.66	74	42.13	32.09	5.95	33.83	195	10	Peak
2462	110.74	-	-	106.23	32.26	6.14	33.89	195	10	Peak
2462	99.52	-	-	95.01	32.26	6.14	33.89	195	10	Average
2483.66	43.96	-10.04	54	39.4	32.28	6.18	33.9	195	10	Average
2483.66	63.88	-10.12	74	59.32	32.28	6.18	33.9	195	10	Peak

<b>Test Mode :</b>	Mode 6	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	11	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	2462 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2366	35.38	-18.62	54	31.1	32.13	5.99	33.84	137	46	Average
2366	47.37	-26.63	74	43.09	32.13	5.99	33.84	137	46	Peak
2462	109.08	-	-	104.57	32.26	6.14	33.89	137	46	Peak
2462	98.03	-	-	93.52	32.26	6.14	33.89	137	46	Average
2483.66	43.65	-10.35	54	39.09	32.28	6.18	33.9	137	46	Average
2483.66	64.97	-9.03	74	60.41	32.28	6.18	33.9	137	46	Peak





<b>Test Mode :</b>	Mode 7	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	01	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	2412 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2389.61	47.6	-6.4	54	43.24	32.18	6.03	33.85	174	360	Average
2389.61	66.93	-7.07	74	62.57	32.18	6.03	33.85	174	360	Peak
2412	99.21	-	-	94.81	32.2	6.07	33.87	174	360	Average
2412	111.82	-	-	107.42	32.2	6.07	33.87	174	360	Peak
2486	47.77	-26.23	74	43.21	32.28	6.18	33.9	174	360	Peak
2486	35.14	-18.86	54	30.58	32.28	6.18	33.9	174	360	Average

<b>Test Mode :</b>	Mode 7	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	01	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	2412 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2389.99	46.14	-7.86	54	41.78	32.18	6.03	33.85	117	348	Average
2389.99	65.47	-8.53	74	61.11	32.18	6.03	33.85	117	348	Peak
2412	96.1	-	-	91.7	32.2	6.07	33.87	117	348	Average
2412	108.8	-	-	104.4	32.2	6.07	33.87	117	348	Peak
2484	47.11	-26.89	74	42.55	32.28	6.18	33.9	117	348	Peak
2484	34.61	-19.39	54	30.05	32.28	6.18	33.9	117	348	Average



<b>Test Mode :</b>	Mode 8	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	06	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	2437 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2390	35.34	-18.66	54	30.98	32.18	6.03	33.85	171	5	Average
2390	55.31	-18.69	74	50.95	32.18	6.03	33.85	171	5	Peak
2437	98.89	-	-	94.42	32.24	6.11	33.88	171	5	Average
2437	111.2	-	-	106.73	32.24	6.11	33.88	171	5	Peak
2492	35.36	-18.64	54	30.78	32.3	6.18	33.9	171	5	Average
2492	47.34	-26.66	74	42.76	32.3	6.18	33.9	171	5	Peak

<b>Test Mode :</b>	Mode 8	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	06	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	2437 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2390	36.33	-17.67	54	31.97	32.18	6.03	33.85	118	348	Average
2390	55.24	-18.76	74	50.88	32.18	6.03	33.85	118	348	Peak
2437	97.1	-	-	92.63	32.24	6.11	33.88	118	348	Average
2437	109.9	-	-	105.43	32.24	6.11	33.88	118	348	Peak
2484	34.63	-19.37	54	30.07	32.28	6.18	33.9	118	348	Average
2484	46.95	-27.05	74	42.39	32.28	6.18	33.9	118	348	Peak



<b>Test Mode :</b>	Mode 9	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	11	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	2462 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2366	36.09	-17.91	54	31.81	32.13	5.99	33.84	150	4	Average
2366	48.15	-25.85	74	43.87	32.13	5.99	33.84	150	4	Peak
2462	110.92	-	-	106.41	32.26	6.14	33.89	150	4	Peak
2462	98.18	-	-	93.67	32.26	6.14	33.89	150	4	Average
2483.85	45.98	-8.02	54	41.42	32.28	6.18	33.9	150	4	Average
2483.85	63.08	-10.92	74	58.52	32.28	6.18	33.9	150	4	Peak

<b>Test Mode :</b>	Mode 9	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	11	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	2462 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2380	35.37	-18.63	54	31.03	32.16	6.03	33.85	114	12	Average
2380	47.6	-26.4	74	43.26	32.16	6.03	33.85	114	12	Peak
2462	109.5	-	-	104.99	32.26	6.14	33.89	114	12	Peak
2462	96.75	-	-	92.24	32.26	6.14	33.89	114	12	Average
2483.5	47.21	-6.79	54	42.65	32.28	6.18	33.9	114	12	Average
2483.5	63.56	-10.44	74	59	32.28	6.18	33.9	114	12	Peak



<b>Test Mode :</b>	Mode 10	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	03	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	2422 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
79.41	20.08	-19.92	40	43.59	7.14	0.88	31.53	-	-	Peak
163.38	24.11	-19.39	43.5	44.27	10.14	1.22	31.52	-	-	Peak
233.58	32.15	-13.85	46	50.58	11.5	1.5	31.43	-	-	Peak
310.5	35.41	-10.59	46	51.15	13.79	1.79	31.32	141	189	Peak
430.9	31.2	-14.8	46	43.01	17.07	2.25	31.13	-	-	Peak
603.8	20.95	-25.05	46	29.36	19.81	2.7	30.92	-	-	Peak
2389.61	72.42	-1.58	74	68.06	32.18	6.03	33.85	176	0	Peak
2389.61	50.67	-3.33	54	46.31	32.18	6.03	33.85	176	0	Average
2422	105.76	-	-	101.36	32.2	6.07	33.87	176	0	Peak
2422	91.53	-	-	87.11	32.22	6.07	33.87	176	0	Average
2486	33.69	-20.31	54	29.13	32.28	6.18	33.9	176	0	Average
2486	45.77	-28.23	74	41.21	32.28	6.18	33.9	176	0	Peak



<b>Test Mode :</b>	Mode 10	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	03	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	2422 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
30	26.2	-13.8	40	40.62	16.51	0.53	31.46	-	-	Peak
213.33	31.36	-12.14	43.5	51.39	10.06	1.38	31.47	142	256	Peak
287.85	28.41	-17.59	46	44.79	13.27	1.68	31.33	-	-	Peak
310.5	30.37	-15.63	46	46.11	13.79	1.79	31.32	-	-	Peak
365.8	28.16	-17.84	46	41.84	15.51	2.07	31.26	-	-	Peak
668.2	23.85	-22.15	46	31.29	20.53	2.88	30.85	-	-	Peak
2389.61	71.5	-2.5	74	67.14	32.18	6.03	33.85	115	349	Peak
2389.61	49.65	-4.35	54	45.29	32.18	6.03	33.85	115	349	Average
2422	103.73	-	-	99.28	32.22	6.11	33.88	115	349	Peak
2422	89.52	-	-	85.1	32.22	6.07	33.87	115	349	Average
2492	33.99	-20.01	54	29.41	32.3	6.18	33.9	115	349	Average
2492	48.43	-25.57	74	43.85	32.3	6.18	33.9	115	349	Peak



<b>Test Mode :</b>	Mode 11	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	06	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	2437 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level (dBuV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
159.33	24.18	-19.32	43.5	44.03	10.45	1.22	31.52	-	-	Peak
233.58	32.25	-13.75	46	50.68	11.5	1.5	31.43	-	-	Peak
273.81	31.99	-14.01	46	48.67	13.04	1.64	31.36	-	-	Peak
307.7	34.71	-11.29	46	50.55	13.7	1.79	31.33	-	-	Peak
365.8	35.75	-10.25	46	49.43	15.51	2.07	31.26	136	147	Peak
430.9	30.43	-15.57	46	42.24	17.07	2.25	31.13	-	-	Peak
2390	65.55	-8.45	74	61.19	32.18	6.03	33.85	176	360	Peak
2390	44.15	-9.85	54	39.79	32.18	6.03	33.85	176	360	Average
2437	108.66	-	-	104.24	32.22	6.07	33.87	176	360	Peak
2437	95.15	-	-	90.68	32.24	6.11	33.88	176	360	Average
2484	63.44	-10.56	74	58.88	32.28	6.18	33.9	176	360	Peak
2484	41.9	-12.1	54	37.34	32.28	6.18	33.9	176	360	Average



<b>Test Mode :</b>	Mode 11	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	06	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	2437 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
47.01	26.55	-13.45	40	47.92	9.48	0.67	31.52	-	-	Peak
99.66	24.47	-19.03	43.5	45.23	9.79	0.99	31.54	-	-	Peak
210.9	31.45	-12.05	43.5	51.7	9.86	1.36	31.47	112	159	Peak
307.7	29.7	-16.3	46	45.54	13.7	1.79	31.33	-	-	Peak
500.2	25.56	-20.44	46	35.95	18.23	2.45	31.07	-	-	Peak
668.2	27.03	-18.97	46	34.47	20.53	2.88	30.85	-	-	Peak
2390	62.3	-11.7	74	57.94	32.18	6.03	33.85	114	14	Peak
2390	41.72	-12.28	54	37.36	32.18	6.03	33.85	114	14	Average
2437	93.43	-	-	88.96	32.24	6.11	33.88	114	14	Average
2437	106.84	-	-	102.37	32.24	6.11	33.88	114	14	Peak
2484	64.84	-9.16	74	60.28	32.28	6.18	33.9	114	14	Peak
2484	43.13	-10.87	54	38.57	32.28	6.18	33.9	114	14	Average



<b>Test Mode :</b>	Mode 12	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	09	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	2452 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
31.89	18.67	-21.33	40	33.54	16.04	0.55	31.46	-	-	Peak
161.49	24.99	-18.51	43.5	45.03	10.26	1.22	31.52	-	-	Peak
233.58	33.51	-12.49	46	51.94	11.5	1.5	31.43	-	-	Peak
310.5	35.01	-10.99	46	50.75	13.79	1.79	31.32	144	187	Peak
430.9	30.64	-15.36	46	42.45	17.07	2.25	31.13	-	-	Peak
643	21.08	-24.92	46	28.89	20.25	2.82	30.88	-	-	Peak
2382	46.38	-27.62	74	42.04	32.16	6.03	33.85	200	0	Peak
2382	34.64	-19.36	54	30.3	32.16	6.03	33.85	200	0	Average
2452	90.72	-	-	86.25	32.24	6.11	33.88	200	0	Average
2452	104.67	-	-	100.16	32.26	6.14	33.89	200	0	Peak
2484.61	70.69	-3.31	74	66.13	32.28	6.18	33.9	200	0	Peak
2484.61	49.24	-4.76	54	44.68	32.28	6.18	33.9	200	0	Average





<b>Test Mode :</b>	Mode 12	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	09	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	2452 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
30	26.45	-13.55	40	40.87	16.51	0.53	31.46	-	-	Peak
99.66	28.2	-15.3	43.5	48.96	9.79	0.99	31.54	-	-	Peak
213.33	30.33	-13.17	43.5	50.36	10.06	1.38	31.47	118	241	Peak
310.5	30.1	-15.9	46	45.84	13.79	1.79	31.32	-	-	Peak
500.2	25.51	-20.49	46	35.9	18.23	2.45	31.07	-	-	Peak
699.7	25.43	-20.57	46	32.43	20.88	2.94	30.82	-	-	Peak
2390	46.23	-27.77	74	41.87	32.18	6.03	33.85	116	347	Peak
2390	34.73	-19.27	54	30.37	32.18	6.03	33.85	116	347	Average
2452	89.01	-	-	84.54	32.24	6.11	33.88	116	347	Average
2452	102.33	-	-	97.86	32.24	6.11	33.88	116	347	Peak
2484.61	69.76	-4.24	74	65.2	32.28	6.18	33.9	116	347	Peak
2484.61	48.14	-5.86	54	43.58	32.28	6.18	33.9	116	347	Average



<b>Test Mode :</b>	Mode 13	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	149	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5745 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level (dBuV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
213.33	27.83	-15.67	43.5	47.86	10.06	1.38	31.47	-	-	Peak
233.58	32.9	-13.1	46	51.33	11.5	1.5	31.43	-	-	Peak
287.85	32.91	-13.09	46	49.29	13.27	1.68	31.33	-	-	Peak
307	34.59	-11.41	46	50.43	13.7	1.79	31.33	-	-	Peak
365.8	34.82	-11.18	46	48.5	15.51	2.07	31.26	100	312	Peak
430.9	30.32	-15.68	46	42.13	17.07	2.25	31.13	-	-	Peak
5725	75.19	-9.94	85.13	63.63	34.82	9.92	33.18	109	306	Peak
5745	95.45	-	-	83.91	34.84	9.91	33.21	109	306	Average
5745	105.13	-	-	93.59	34.84	9.91	33.21	109	306	Peak
5850	47.91	-37.22	85.13	36.42	34.94	9.87	33.32	109	306	Peak



<b>Test Mode :</b>	Mode 13	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	149	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5745 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
47.01	25.66	-14.34	40	47.03	9.48	0.67	31.52	-	-	Peak
104.25	29.24	-14.26	43.5	49.57	10.2	1.02	31.55	-	-	Peak
213.06	30.21	-13.29	43.5	50.24	10.06	1.38	31.47	105	257	Peak
307.7	30.65	-15.35	46	46.49	13.7	1.79	31.33	-	-	Peak
365.8	28.99	-17.01	46	42.67	15.51	2.07	31.26	-	-	Peak
500.2	25.58	-20.42	46	35.97	18.23	2.45	31.07	-	-	Peak
5725	78.42	-9	87.42	66.86	34.82	9.92	33.18	100	307	Peak
5745	97.95	-	-	86.41	34.84	9.91	33.21	100	307	Average
5745	107.42	-	-	95.88	34.84	9.91	33.21	100	307	Peak
5850	51.11	-36.31	87.42	39.62	34.94	9.87	33.32	100	307	Peak



<b>Test Mode :</b>	Mode 14	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	157	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5785 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
162.3	23.43	-20.07	43.5	43.47	10.26	1.22	31.52	-	-	Peak
233.58	33.09	-12.91	46	51.52	11.5	1.5	31.43	-	-	Peak
287.85	33.62	-12.38	46	50	13.27	1.68	31.33	-	-	Peak
307.7	34.67	-11.33	46	50.51	13.7	1.79	31.33	-	-	Peak
365.8	35.24	-10.76	46	48.92	15.51	2.07	31.26	128	100	Peak
430.9	30.97	-15.03	46	42.78	17.07	2.25	31.13	-	-	Peak
5725	52.5	-32.44	84.94	40.94	34.82	9.92	33.18	103	334	Peak
5785	94.8	-	-	83.25	34.88	9.9	33.23	103	334	Average
5785	104.94	-	-	93.39	34.88	9.9	33.23	103	334	Peak
5850	51.52	-33.42	84.94	40.03	34.94	9.87	33.32	103	334	Peak



<b>Test Mode :</b>	Mode 14	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	157	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5785 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
104.25	28.75	-14.75	43.5	49.08	10.2	1.02	31.55	-	-	Peak
191.73	29.48	-14.02	43.5	50.61	9.08	1.29	31.5	-	-	Peak
213.33	30.38	-13.12	43.5	50.41	10.06	1.38	31.47	111	135	Peak
310.5	30.06	-15.94	46	45.8	13.79	1.79	31.32	-	-	Peak
365.8	28.4	-17.6	46	42.08	15.51	2.07	31.26	-	-	Peak
699.7	26.34	-19.66	46	33.34	20.88	2.94	30.82	-	-	Peak
5725	51.53	-36.89	88.42	39.97	34.82	9.92	33.18	100	313	Peak
5785	98.98	-	-	87.43	34.88	9.9	33.23	100	313	Average
5785	108.42	-	-	96.87	34.88	9.9	33.23	100	313	Peak
5850	51.39	-37.03	88.42	39.9	34.94	9.87	33.32	100	313	Peak



<b>Test Mode :</b>	Mode 15	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	165	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5825 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
213.33	29.57	-13.93	43.5	49.6	10.06	1.38	31.47	-	-	Peak
233.58	32.2	-13.8	46	50.63	11.5	1.5	31.43	-	-	Peak
287.85	32.76	-13.24	46	49.14	13.27	1.68	31.33	-	-	Peak
307.7	34.99	-11.01	46	50.83	13.7	1.79	31.33	-	-	Peak
365.8	35.06	-10.94	46	48.74	15.51	2.07	31.26	105	255	Peak
430.9	29.86	-16.14	46	41.67	17.07	2.25	31.13	-	-	Peak
5725	51.08	-33.65	84.73	39.52	34.82	9.92	33.18	100	311	Peak
5825	104.73	-	-	93.21	34.93	9.88	33.29	100	311	Peak
5825	93.44	-	-	81.92	34.93	9.88	33.29	100	311	Average
5850	62.87	-21.86	84.73	51.38	34.94	9.87	33.32	100	311	Peak
11650	52.76	-21.24	74	56.34	38.47	13.22	55.27	100	287	Peak
11650	40.26	-13.74	54	43.84	38.47	13.22	55.27	100	287	Average



<b>Test Mode :</b>	Mode 15	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	165	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5825 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
104.25	28.81	-14.69	43.5	49.14	10.2	1.02	31.55	-	-	Peak
213.33	30.65	-12.85	43.5	50.68	10.06	1.38	31.47	163	107	Peak
282.45	28.74	-17.26	46	45.25	13.18	1.65	31.34	-	-	Peak
307.7	31.24	-14.76	46	47.08	13.7	1.79	31.33	-	-	Peak
365.8	28.18	-17.82	46	41.86	15.51	2.07	31.26	-	-	Peak
900.6	27.31	-18.69	46	31.03	23.64	3.34	30.7	-	-	Peak
5725	51.65	-34.32	85.97	40.09	34.82	9.92	33.18	100	329	Peak
5825	105.97	-	-	94.45	34.93	9.88	33.29	100	329	Peak
5825	95.91	-	-	84.39	34.93	9.88	33.29	100	329	Average
5850	64.98	-20.99	85.97	53.49	34.94	9.87	33.32	100	329	Peak
11650	54.39	-19.61	74	57.97	38.47	13.22	55.27	100	324	Peak
11650	42.4	-11.6	54	45.98	38.47	13.22	55.27	100	324	Average



<b>Test Mode :</b>	Mode 16	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	149	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5745 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5725	62.56	-13.77	76.33	51	34.82	9.92	33.18	130	310	Peak
5745	96.33	-	-	84.79	34.84	9.91	33.21	130	310	Peak
5745	83.74	-	-	72.2	34.84	9.91	33.21	130	310	Average
5850	51.23	-25.1	76.33	39.74	34.94	9.87	33.32	130	310	Peak

<b>Test Mode :</b>	Mode 16	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	149	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5745 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5725	65.05	-14.85	79.9	53.49	34.82	9.92	33.18	102	328	Peak
5745	99.9	-	-	88.36	34.84	9.91	33.21	102	328	Peak
5745	86.57	-	-	75.03	34.84	9.91	33.21	102	328	Average
5850	51.36	-28.54	79.9	39.87	34.94	9.87	33.32	102	328	Peak





<b>Test Mode :</b>	Mode 17	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	157	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5785 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5725	51.41	-30.02	81.43	39.85	34.82	9.92	33.18	100	310	Peak
5785	88.74	-	-	77.19	34.88	9.9	33.23	100	310	Average
5785	101.43	-	-	89.91	34.89	9.89	33.26	100	310	Peak
5850	51.14	-30.29	81.43	39.65	34.94	9.87	33.32	100	310	Peak

<b>Test Mode :</b>	Mode 17	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	157	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5785 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5725	51.5	-31.25	82.75	39.94	34.82	9.92	33.18	123	303	Peak
5785	90.67	-	-	79.12	34.88	9.9	33.23	123	303	Average
5785	102.75	-	-	91.23	34.89	9.89	33.26	123	303	Peak
5850	51.54	-31.21	82.75	40.05	34.94	9.87	33.32	123	303	Peak



<b>Test Mode :</b>	Mode 18	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	165	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5825 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5725	51.83	-26.74	78.57	40.27	34.82	9.92	33.18	110	301	Peak
5825	85.43	-	-	73.91	34.93	9.88	33.29	110	301	Average
5825	98.57	-	-	87.05	34.93	9.88	33.29	110	301	Peak
5850	53.47	-25.1	78.57	41.98	34.94	9.87	33.32	110	301	Peak

<b>Test Mode :</b>	Mode 18	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	165	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5825 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5725	51.83	-27.65	79.48	40.27	34.82	9.92	33.18	112	309	Peak
5825	85.79	-	-	74.27	34.93	9.88	33.29	112	309	Average
5825	99.48	-	-	87.96	34.93	9.88	33.29	112	309	Peak
5850	53.38	-26.1	79.48	41.89	34.94	9.87	33.32	112	309	Peak



<b>Test Mode :</b>	Mode 19	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	151	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5755 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5725	66.23	-8.6	74.83	54.67	34.82	9.92	33.18	100	314	Peak
5755	81.19	-	-	69.63	34.86	9.91	33.21	100	314	Average
5755	94.83	-	-	83.27	34.86	9.91	33.21	100	314	Peak
5850	51.54	-23.29	74.83	40.05	34.94	9.87	33.32	100	314	Peak

<b>Test Mode :</b>	Mode 19	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	151	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5755 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5725	68.53	-8.53	77.06	56.97	34.82	9.92	33.18	123	308	Peak
5755	83.59	-	-	72.03	34.86	9.91	33.21	123	308	Average
5755	97.06	-	-	85.52	34.84	9.91	33.21	123	308	Peak
5850	51.71	-25.35	77.06	40.22	34.94	9.87	33.32	123	308	Peak



<b>Test Mode :</b>	Mode 20	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	159	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5795 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5725	51.56	-28.26	79.82	40	34.82	9.92	33.18	120	302	Peak
5795	86.67	-	-	75.15	34.89	9.89	33.26	120	302	Average
5795	99.82	-	-	88.28	34.91	9.89	33.26	120	302	Peak
5850	52.6	-27.22	79.82	41.11	34.94	9.87	33.32	120	302	Peak

<b>Test Mode :</b>	Mode 20	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	159	<b>Relative Humidity :</b>	50~51%
<b>Test Engineer :</b>	Ivan Chiang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5795 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5725	51.49	-30.81	82.3	39.93	34.82	9.92	33.18	123	308	Peak
5795	89.08	-	-	77.56	34.89	9.89	33.26	123	308	Average
5795	102.3	-	-	90.78	34.89	9.89	33.26	123	308	Peak
5850	53.28	-29.02	82.3	41.79	34.94	9.87	33.32	123	308	Peak



## **3.8 Antenna Requirements**

### **3.8.1 Standard Applicable**

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

### **3.8.2 Antenna Connected Construction**

The antennas type used in this product is PIFA Antenna without connector and it is considered to meet antenna requirement.

### **3.8.3 Antenna Gain**

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
System Simulator	R&S	CMU200	117995	N/A	Mar. 19, 2009	Mar. 18, 2011	Conducted (TH02-HY)
Spectrum Analyzer	R&S	FSP40	100055	9kHz~40GHz	Jun. 11, 2010	Jun. 10, 2011	Conducted (TH02-HY)
Power Meter	Anritsu	ML2495A	0932001	N/A	Sep. 13, 2010	Sep. 12, 2011	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	0846202	N/A	Sep. 14, 2010	Sep. 13, 2011	Conducted (TH02-HY)
Thermal Chamber	Ten Billion	TTH-D35P	TBN-930701	N/A	Jul. 30,2010	Jul. 29, 2011	Conducted (TH02-HY)
EMI Test Receive	R&S	ESCS 30	100356	9KHz – 2.75GHz	Aug. 16, 2010	Aug. 15, 2011	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100081	9KHz – 30MHz	Dec. 03, 2010	Dec. 02, 2011	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100080	9KHz – 30MHz	Dec. 01, 2010	Nov. 30, 2011	Conduction (CO05-HY)
AC Power Source	APC	APC-1000W	N/A	N/A	N/A	N/A	Conduction (CO05-HY)
ISN	Teseq GmbH	ISN T400A	25696	N/A	Jun. 19, 2010	Jun. 18, 2011	Conduction (CO05-HY)
ISN	Teseq GmbH	ISN T800	27134	N/A	Jun. 19, 2010	Jun. 18, 2011	Conduction (CO05-HY)
DC- LISN	R&S	ESH3-26	1000485	0.1MHz~200MHz	Jun. 17, 2010	Jun. 16, 2011	Conduction (CO05-HY)
DC- LISN	R&S	ESH3-26	1000484	0.1MHz~200MHz	Jun. 17, 2010	Jun. 16, 2011	Conduction (CO05-HY)
GPS Station	T&E	GS-50	N/A	N/A	N/A	N/A	Conduction (CO05-HY)
Bilog Antenna	SCHAFFNER	CBL6111C	2726	30MHz ~ 1GHz	Oct. 31, 2010	Oct. 30, 2011	Radiation (03CH07-HY)
Spectrum Analyzer	R&S	FSP	101067	9KHz ~ 30GHz	Dec. 03, 2010	Dec. 02, 2011	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 19, 2010	Aug. 18, 2011	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz- 40GHz	Oct. 18, 2010	Oct. 17, 2011	Radiation (03CH07-HY)
Pre Amplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Dec. 06, 2010	Dec. 05, 2011	Radiation (03CH07-HY)
Pre Amplifier	COM-POWER	PA-103A	161241	10-1000MHz.32dB.GAIN	Mar. 27, 2010	Mar. 26, 2011	Radiation (03CH07-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz~30 MHz	Jul. 29, 2010	Jul. 28, 2011	Radiation (03CH07-HY)

## 5 Uncertainty of Evaluation

### 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 Specification	1.50	Rectangular	0.43
Site Imperfection	1.39	Rectangular	0.80
Mismatch	+0.34 / -0.35	U-Shape	0.24
<b>Combined Standard Uncertainty <math>U_c(y)</math></b>	<b>1.13</b>		
<b>Measuring Uncertainty for a Level of Confidence of 95% (<math>U = 2U_c(y)</math>)</b>	<b>2.26</b>		

### 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-Shape	0.28
<b>Combined Standard Uncertainty <math>U_c(y)</math></b>	<b>1.27</b>		
<b>Measuring Uncertainty for a Level of Confidence of 95% (<math>U = 2U_c(y)</math>)</b>	<b>2.54</b>		



**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=2)	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 = $20\text{Log}(1-\Gamma_1*\Gamma_2)$	+0.34 / -0.35	U-Shape	0.244	1	0.244
<b>Combined Standard Uncertainty <math>U_c(y)</math></b>	<b>2.36</b>				
<b>Measuring Uncertainty for a Level of Confidence of 95% (<math>U = 2U_c(y)</math>)</b>	<b>4.72</b>				





## **Appendix A. Photographs of EUT**

Please refer to Sporton report number EP052506-04 as below.