Configuration IEEE 802.11n MCS8 40MHz / Chain 1+ Chain 2 + Chain 3

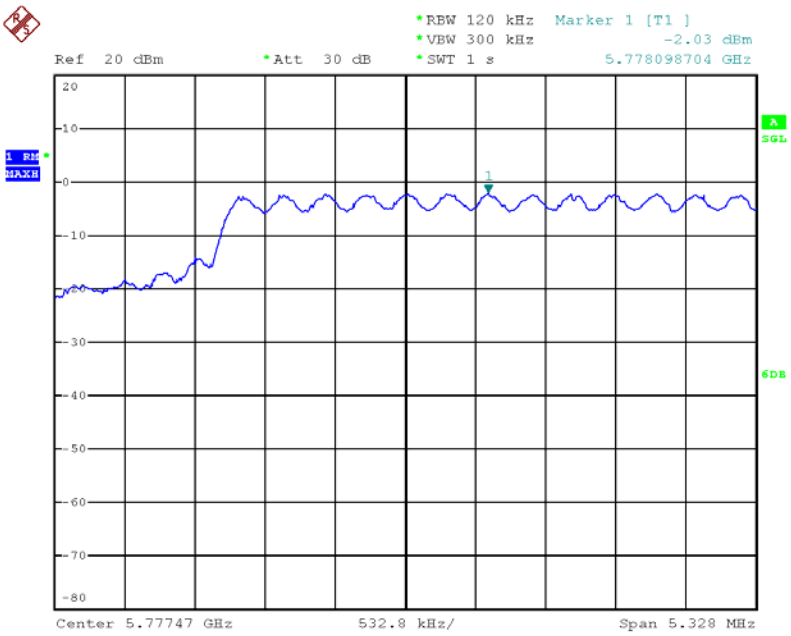
Channel	Frequency	Power Density (dBm/100kHz)			Total Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3					
151	5755 MHz	-13.19	-11.46	-11.89	-7.35	-15.23	-22.58	0.50	Complies
159	5795 MHz	-9.72	-8.04	-7.77	-3.66	-15.23	-18.89	0.50	Complies

Note: $\text{Directional gain} = G_{ANT} + 10\log(\text{N})\ \text{dBi}$ =12.51dBi > 6dBi, so the power density limit =8-(13.5-6)=0.5dBm.

Note: All the test values were listed in the report.

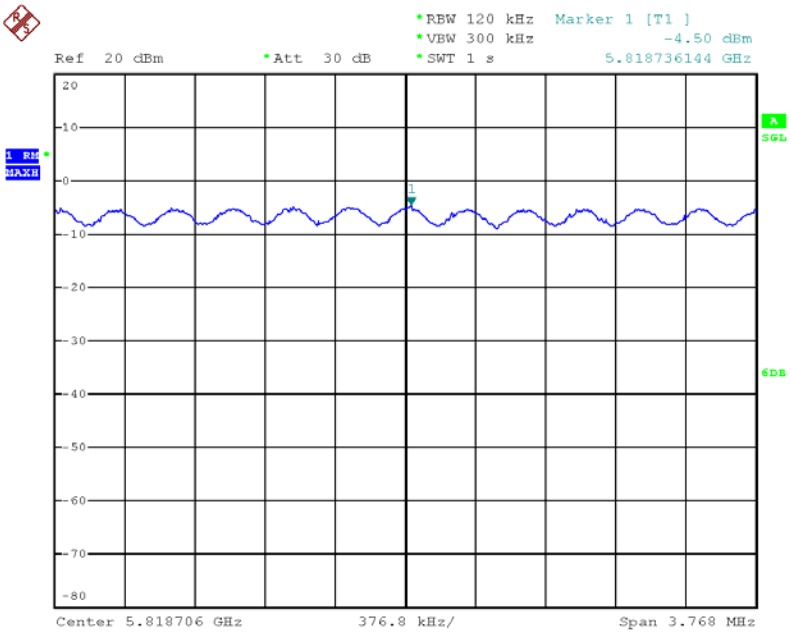
For plots, only the channel with maximum results was shown.

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5785 MHz (1TX)



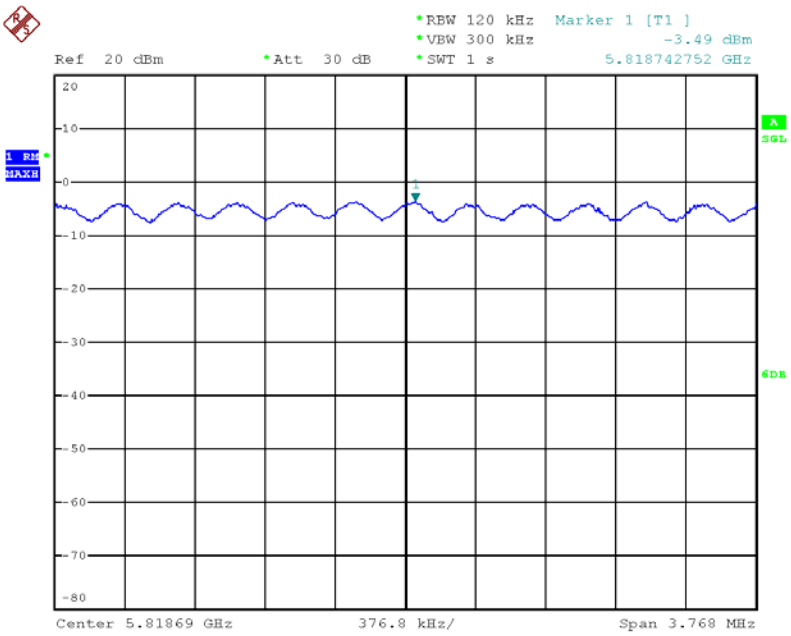
Date: 5.JUN.2012 14:03:42

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5825 MHz (2TX)



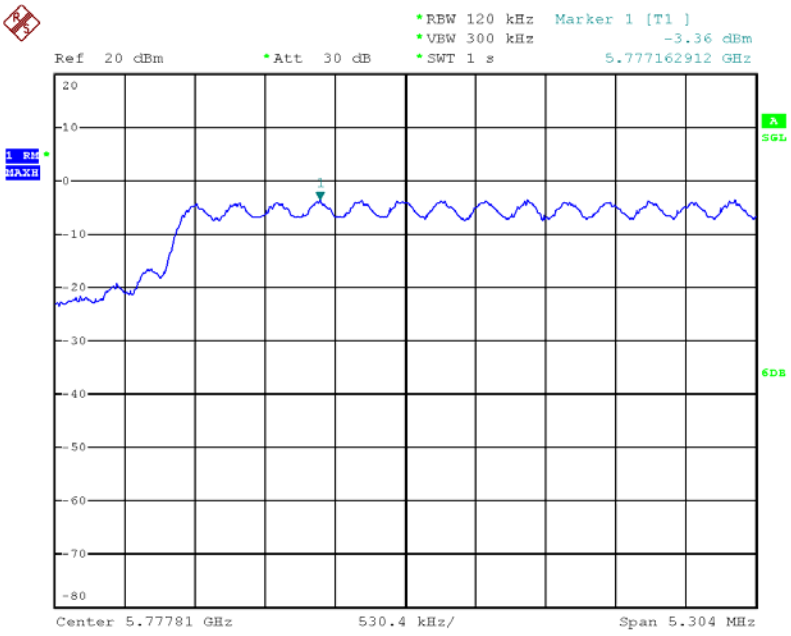
Date: 5.JUN.2012 14:16:27

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 5825 MHz (2TX)



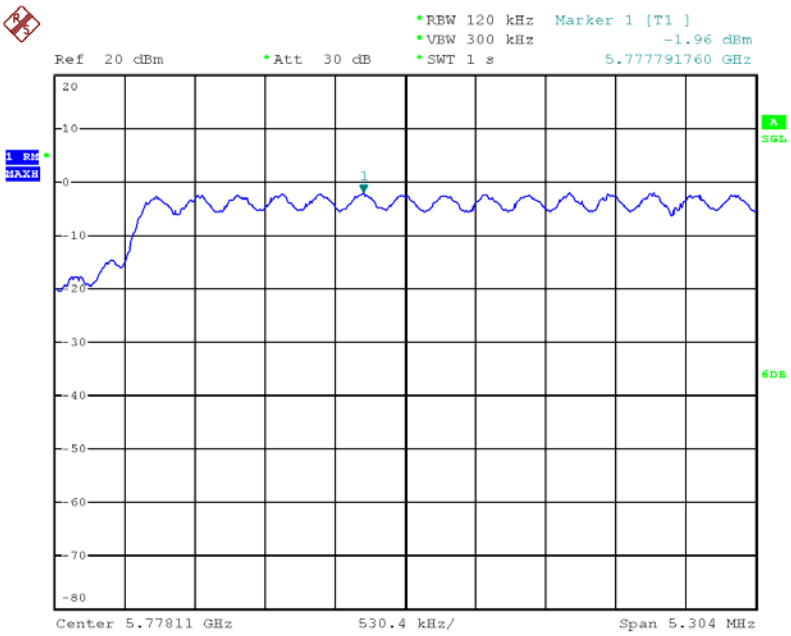
Date: 5.JUN.2012 14:15:52

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 / 5785 MHz (2TX)



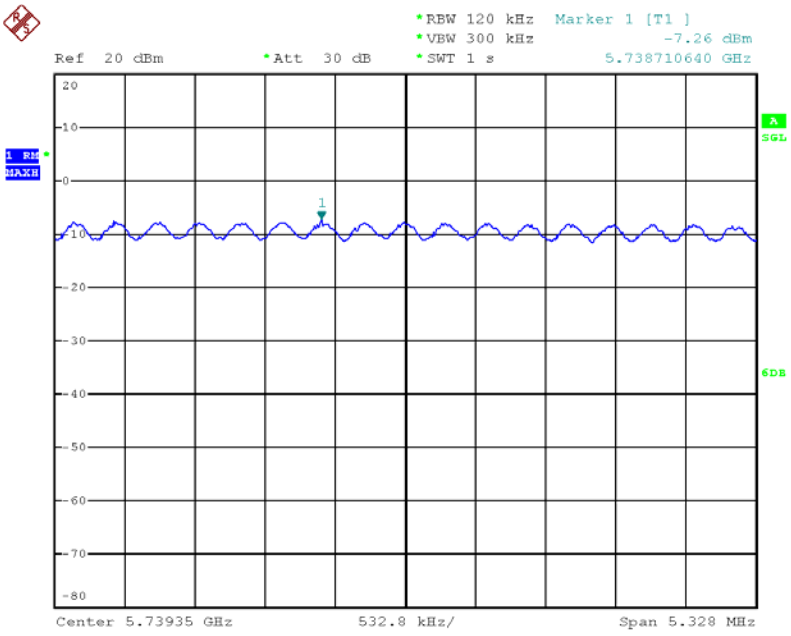
Date: 5.JUN.2012 14:13:43

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 2 / 5785 MHz (2TX)



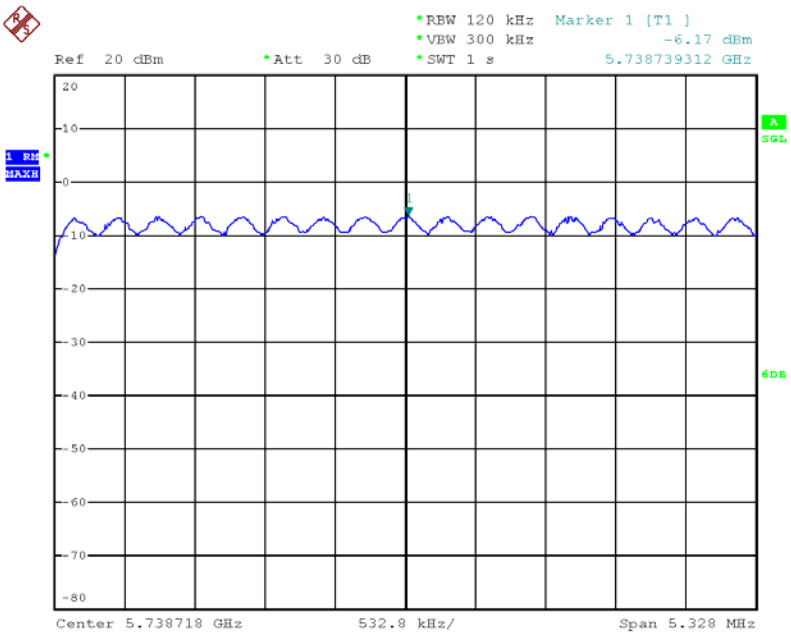
Date: 5.JUN.2012 14:13:11

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5745 MHz (3TX)



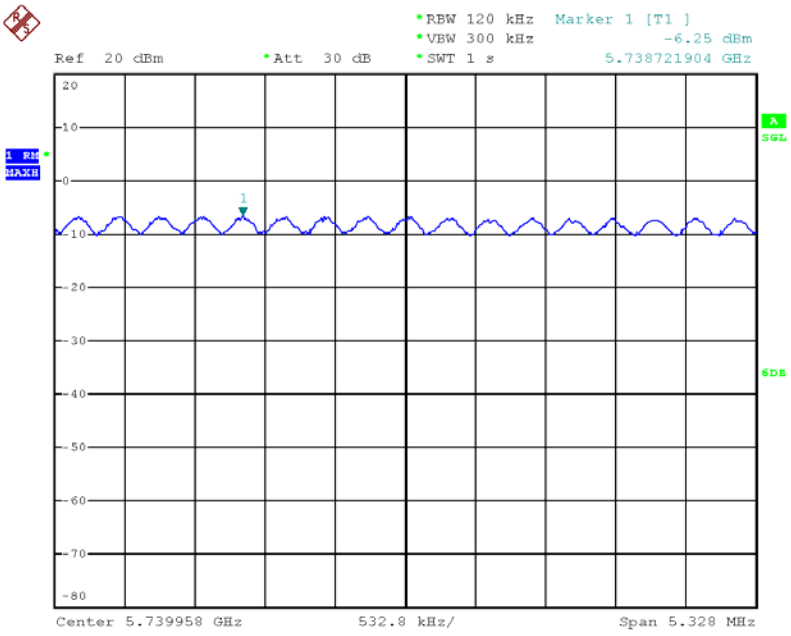
Date: 5.JUN.2012 14:20:51

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 5745 MHz (3TX)



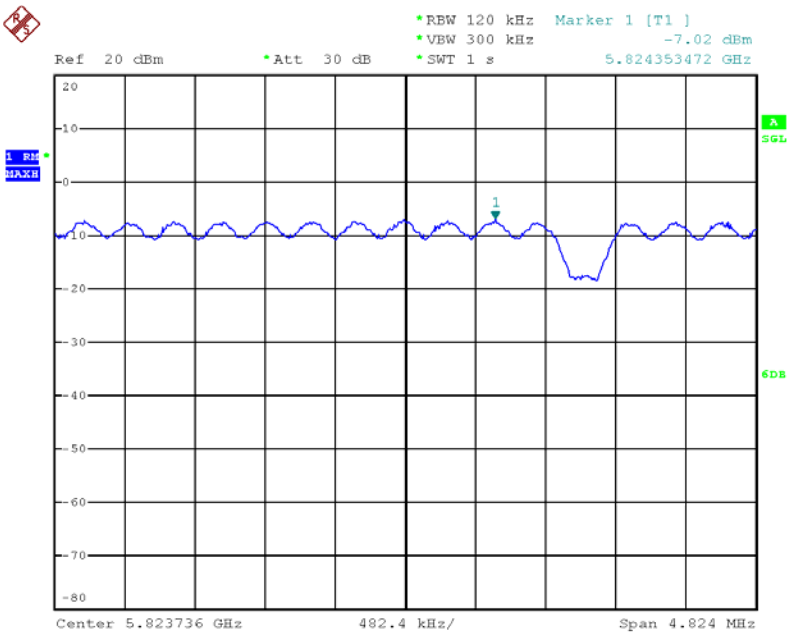
Date: 5.JUN.2012 14:21:22

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 3 / 5745 MHz (3TX)



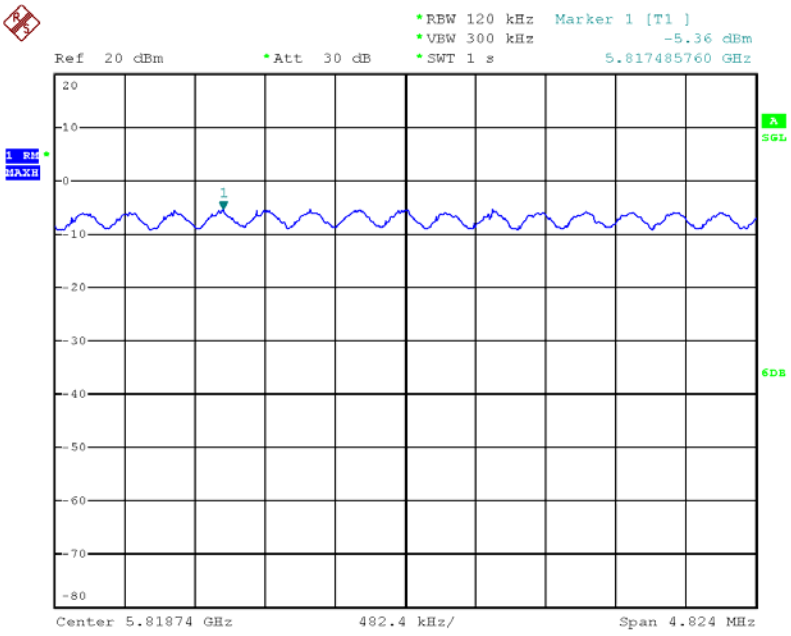
Date: 5.JUN.2012 14:21:48

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 / 5825 MHz (3TX)



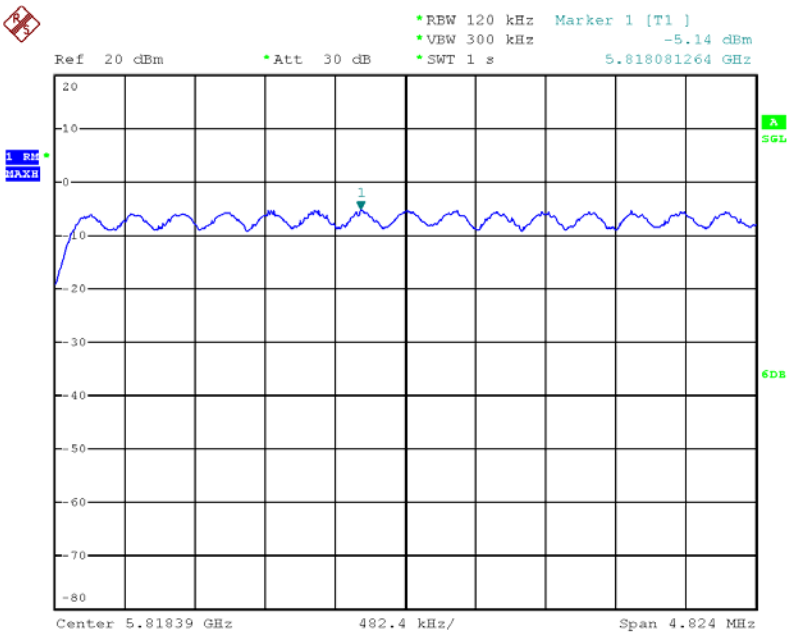
Date: 5.JUN.2012 14:27:00

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 2 / 5825 MHz (3TX)



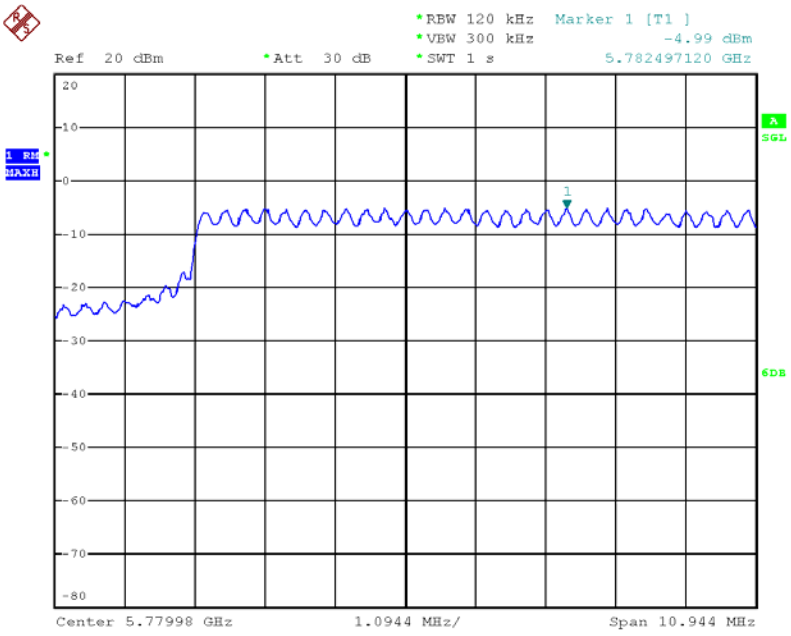
Date: 5.JUN.2012 14:26:32

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 3 / 5825 MHz (3TX)



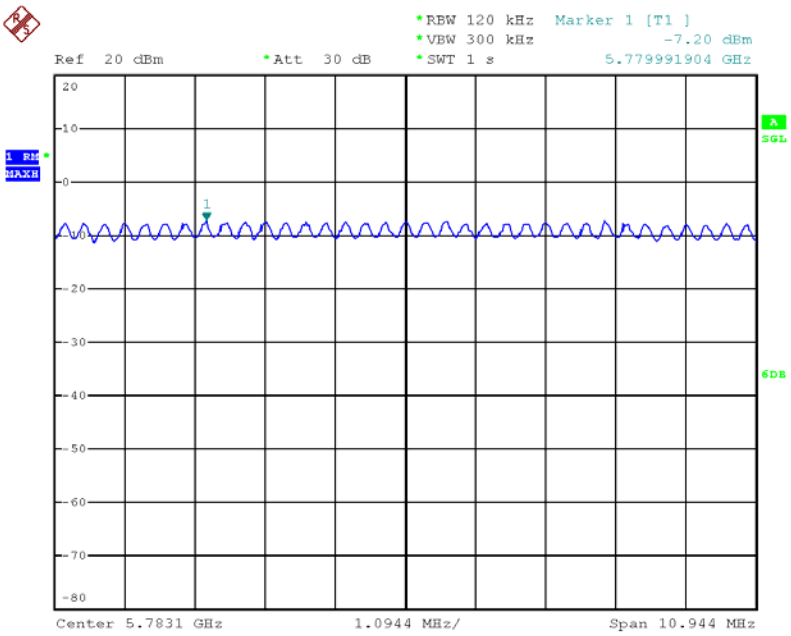
Date: 5.JUN.2012 14:26:00

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5795 MHz / (1TX)



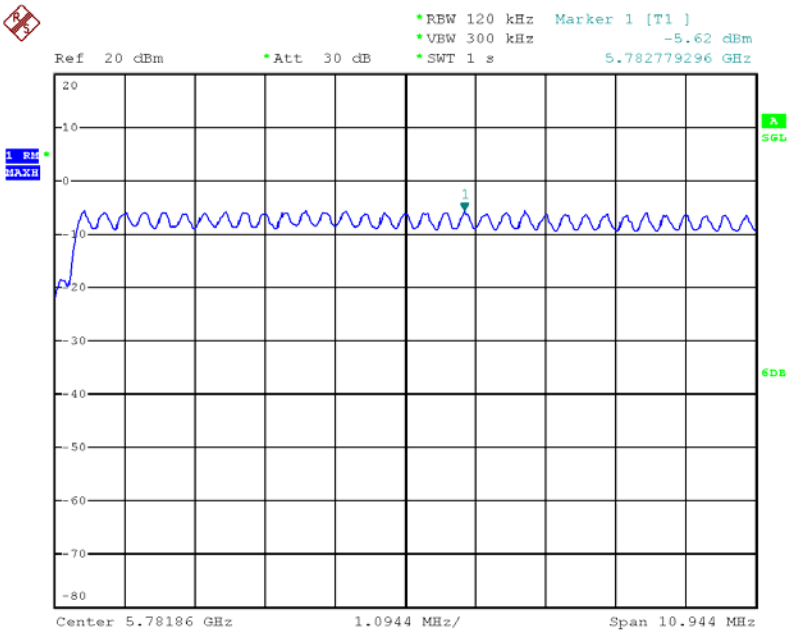
Date: 5.JUN.2012 14:05:46

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5795 MHz (2TX)



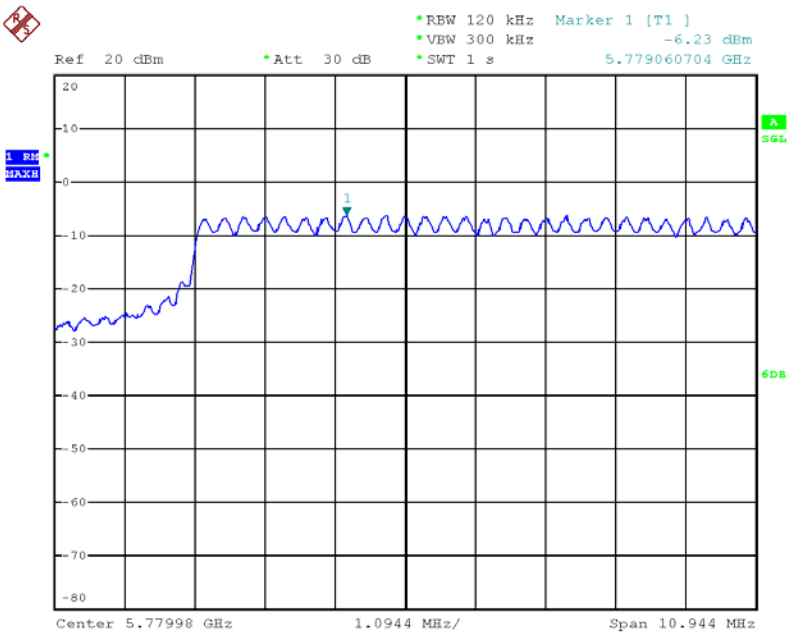
Date: 5.JUN.2012 14:07:55

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 2 / 5795 MHz (2TX)



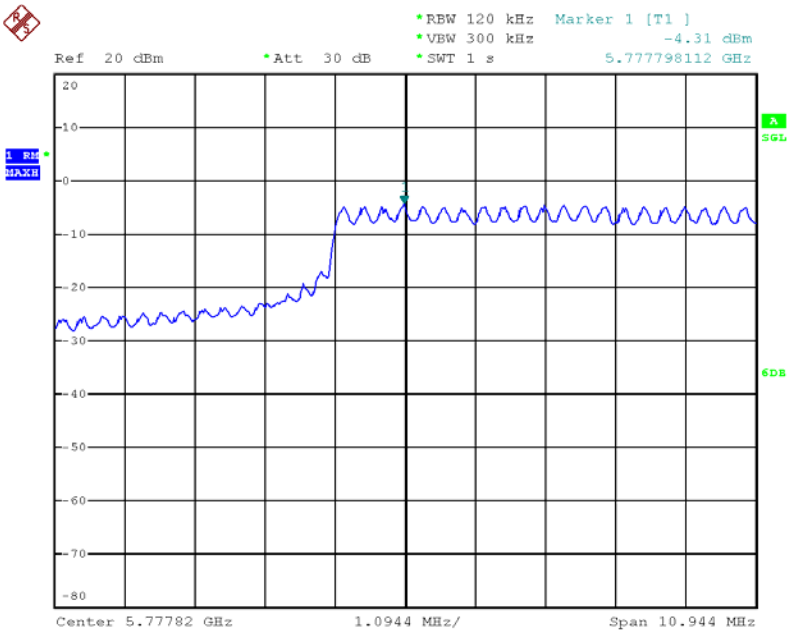
Date: 5.JUN.2012 14:07:31

Power Density Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 / 5795 MHz (2TX)



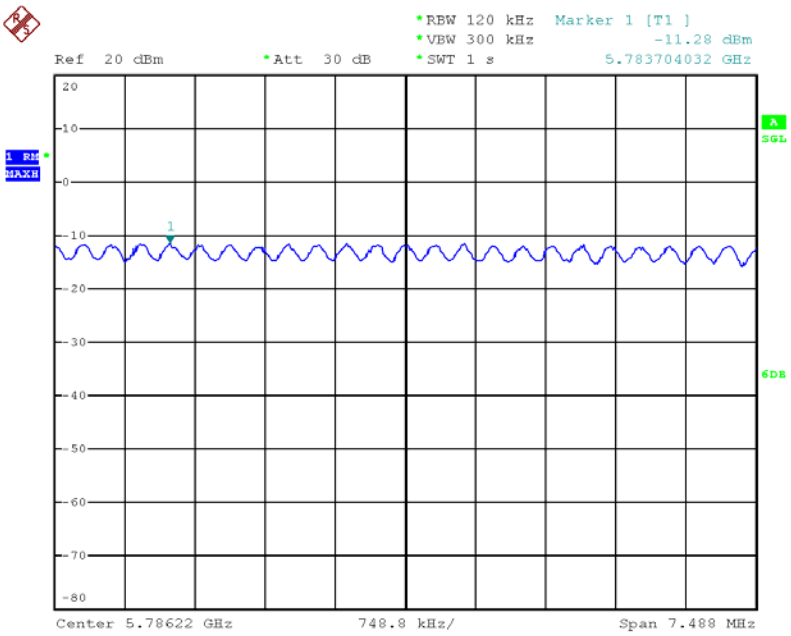
Date: 5.JUN.2012 14:08:37

Power Density Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 2 / 5795 MHz (2TX)



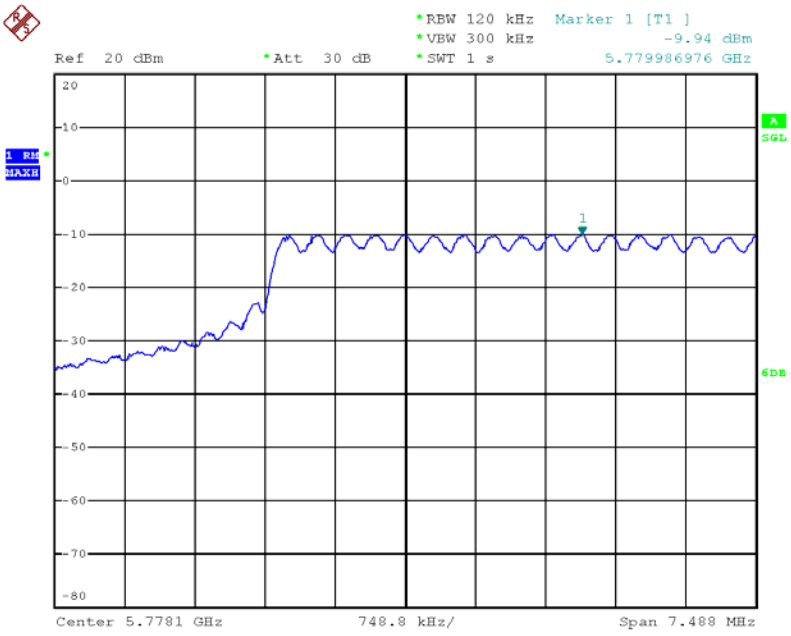
Date: 5.JUN.2012 14:09:03

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5795 MHz (3TX)



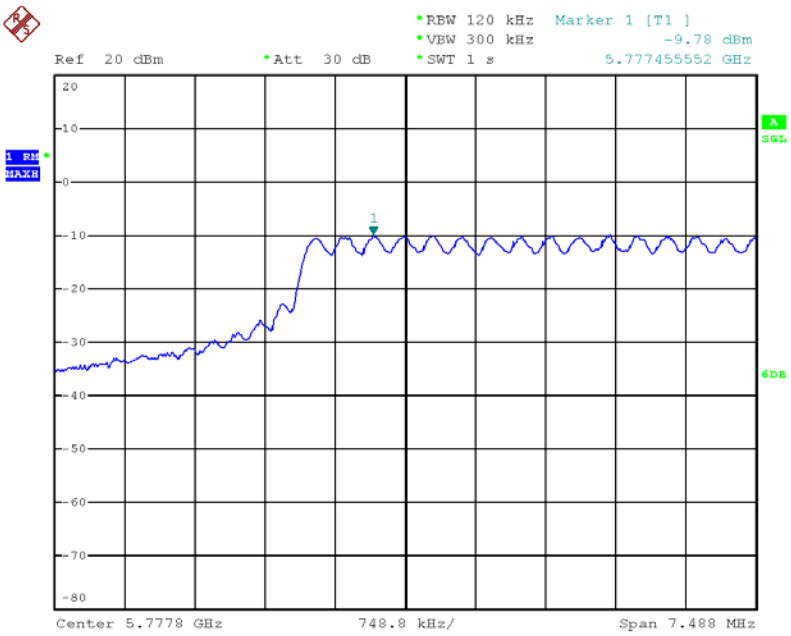
Date: 5.JUN.2012 14:34:18

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 2 / 5795 MHz (3TX)



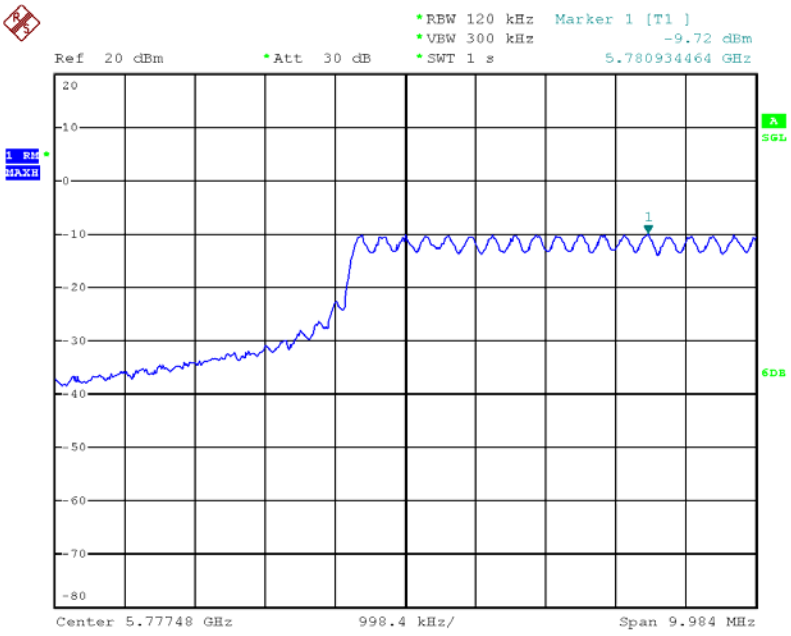
Date: 5.JUN.2012 14:34:45

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 3 / 5795 MHz (3TX)



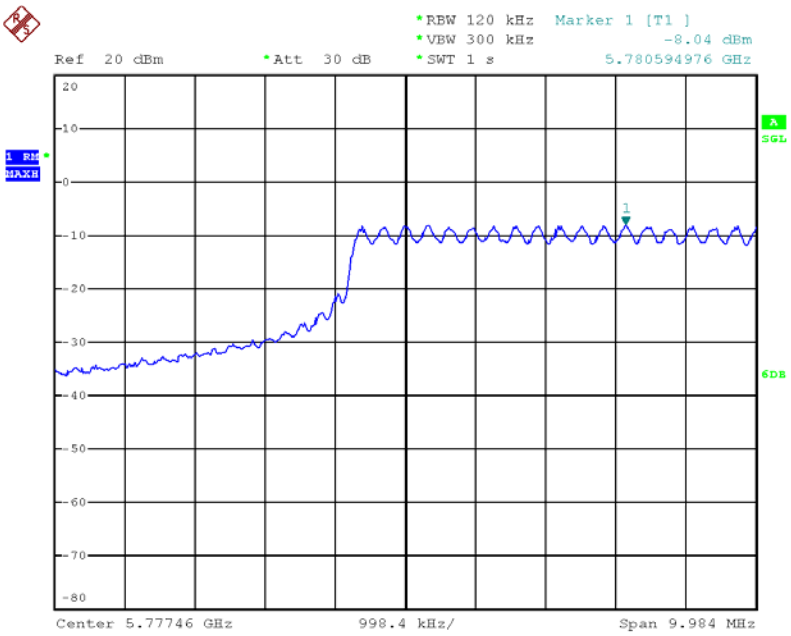
Date: 5.JUN.2012 14:35:09

Power Density Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 / 5795 MHz (3TX)



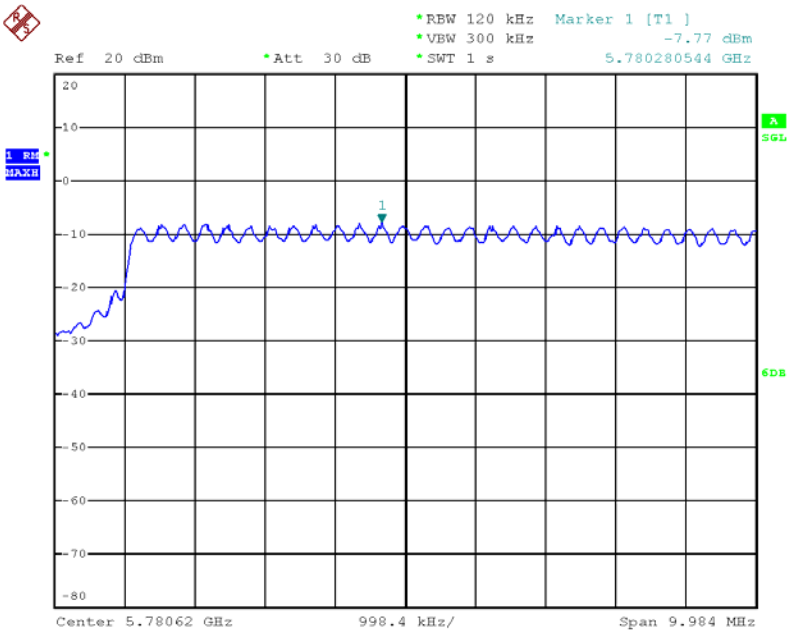
Date: 5.JUN.2012 14:33:25

Power Density Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 2 / 5795 MHz (3TX)



Date: 5.JUN.2012 14:33:03

Power Density Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 3 / 5795 MHz (3TX)



Date: 5.JUN.2012 14:32:39

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n
Test Mode	Mode 9 (Ant. 9 Yagi antenna / 8dBi)		

1TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1

Channel	Frequency	Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-4.53	-15.23	-19.76	6.00	Complies
157	5785 MHz	-2.56	-15.23	-17.79	6.00	Complies
165	5825 MHz	-2.94	-15.23	-18.17	6.00	Complies

Note: 8dBi > 6dBi, so the power density limit =8-(8-6)=6dBm.

Configuration IEEE 802.11n MCS0 40MHz / Chain 1

Channel	Frequency	Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
151	5755 MHz	-8.77	-15.23	-24.00	6.00	Complies
159	5795 MHz	-5.04	-15.23	-20.27	6.00	Complies

Note: 8dBi > 6dBi, so the power density limit =8-(8-6)=6dBm.

2TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1+ Chain 2

Channel	Frequency	Power Density (dBm/100kHz)		Total Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2					
149	5745 MHz	-5.26	-3.34	-1.18	-15.23	-16.41	2.99	Complies
157	5785 MHz	-4.15	-2.81	-0.42	-15.23	-15.65	2.99	Complies
165	5825 MHz	-5.23	-4.26	-1.71	-15.23	-16.94	2.99	Complies

Note: $\text{Directional gain} = G_{ANT} + 10\log(N)\ \text{dBi}$ =11.01dBi > 6dBi, so the power density limit =8-(11.01-6)=2.99dBm.

Configuration IEEE 802.11n MCS0 40MHz / Chain 1+ Chain 2

Channel	Frequency	Power Density (dBm/100kHz)		Total Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2					
151	5755 MHz	-9.37	-7.31	-5.21	-15.23	-20.44	2.99	Complies
159	5795 MHz	-6.45	-5.41	-2.89	-15.23	-18.12	2.99	Complies

Note: $\text{Directional gain} = G_{ANT} + 10\log(N)\ \text{dBi}$ =11.01dBi > 6dBi, so the power density limit =8-(11.01-6)=2.99dBm.

Configuration IEEE 802.11n MCS8 20MHz / Chain 1+ Chain 2

Channel	Frequency	Power Density (dBm/100kHz)		Total Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2					
149	5745 MHz	-3.96	-2.55	-0.19	-15.23	-15.42	6.00	Complies
157	5785 MHz	-3.72	-2.41	-0.01	-15.23	-15.23	6.00	Complies
165	5825 MHz	-4.31	-2.96	-0.57	-15.23	-15.80	6.00	Complies

Note:8dBi > 6dBi, so the power density limit =8-(8-6)=6dBm.

Configuration IEEE 802.11n MCS8 40MHz / Chain 1+ Chain 2

Channel	Frequency	Power Density (dBm/100kHz)		Total Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2					
151	5755 MHz	-8.79	-6.83	-4.69	-15.23	-19.92	6.00	Complies
159	5795 MHz	-6.69	-5.08	-2.80	-15.23	-18.03	6.00	Complies

Note:8dBi > 6dBi, so the power density limit =8-(8-6)=6dBm.

3TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1+ Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			Total Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3					
149	5745 MHz	-5.53	-3.84	-3.71	0.49	-15.23	-14.74	1.23	Complies
157	5785 MHz	-6.08	-4.88	-4.63	-0.38	-15.23	-15.61	1.23	Complies
165	5825 MHz	-5.84	-4.82	-4.79	-0.35	-15.23	-15.58	1.23	Complies

Note: $\text{Directional gain} = G_{ANT} + 10\log(N)\ \text{dBi}$ =12.77dBi > 6dBi, so the power density limit =8-(12.77-6)=1.23dBm.

Configuration IEEE 802.11n MCS0 40MHz / Chain 1+ Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			Total Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3					
151	5755 MHz	-8.70	-6.85	-6.78	-2.59	-15.23	-17.81	1.23	Complies
159	5795 MHz	-9.01	-7.75	-7.70	-3.34	-15.23	-18.57	1.23	Complies

Note: $\text{Directional gain} = G_{ANT} + 10\log(N)\ \text{dBi}$ =12.77dBi > 6dBi, so the power density limit =8-(12.77-6)=1.23dBm.

Configuration IEEE 802.11n MCS8 20MHz / Chain 1+ Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			Total Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3					
149	5745 MHz	-5.35	-3.37	-3.38	0.83	-15.23	-14.40	3.00	Complies
157	5785 MHz	-5.11	-3.78	-3.94	0.53	-15.23	-14.70	3.00	Complies
165	5825 MHz	-6.37	-5.20	-4.72	-0.61	-15.23	-15.83	3.00	Complies

Note: $\text{Directional gain} = G_{ANT} + 10\log(N)\ \text{dBi}$ =11dBi > 6dBi, so the power density limit =8-(11-6)=3dBm.

Configuration IEEE 802.11n MCS8 40MHz / Chain 1+ Chain 2 + Chain 3

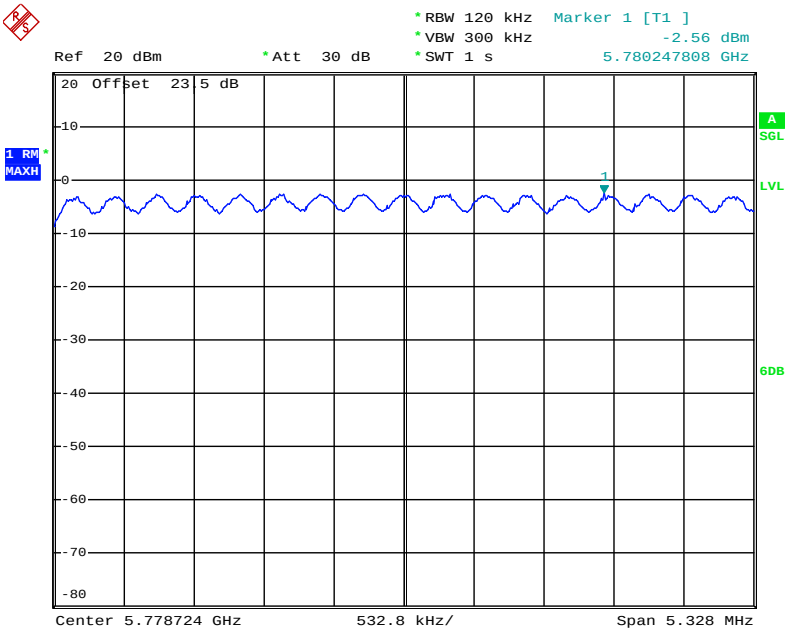
Channel	Frequency	Power Density (dBm/100kHz)			Total Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3					
151	5755 MHz	-9.86	-8.22	-8.34	-3.97	-15.23	-19.20	3.00	Complies
159	5795 MHz	-8.10	-6.86	-6.80	-2.44	-15.23	-17.67	3.00	Complies

Note: $\text{Directional gain} = G_{ANT} + 10\log(\text{N})\ \text{dBi}$ =11dBi > 6dBi, so the power density limit =8-(11-6)=3dBm.

Note: All the test values were listed in the report.

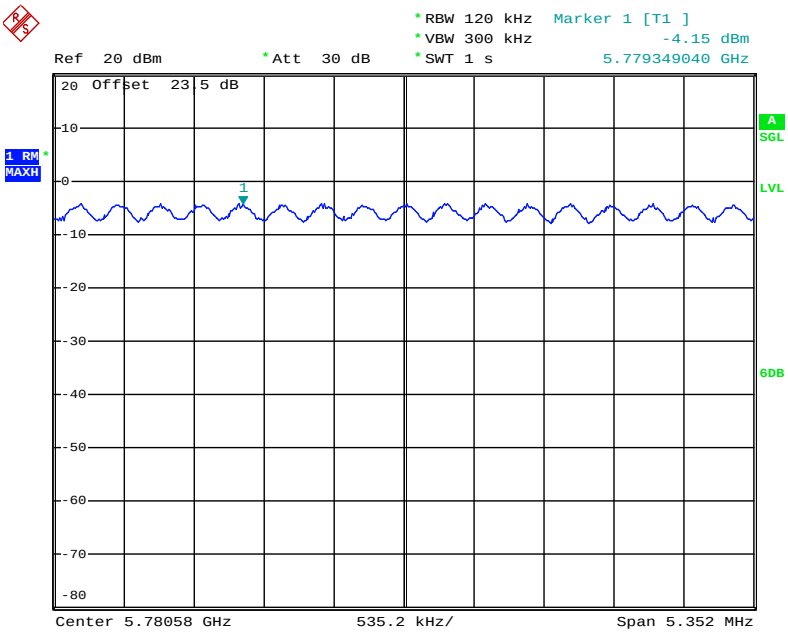
For plots, only the channel with maximum results was shown.

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5785 MHz (1TX)



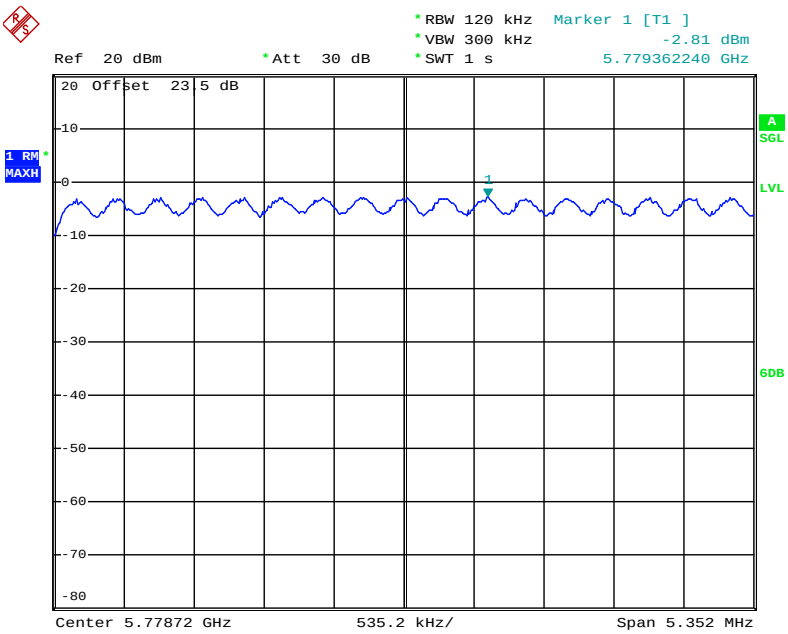
Date: 11.MAY.2012 08:57:20

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5785 MHz (2TX)



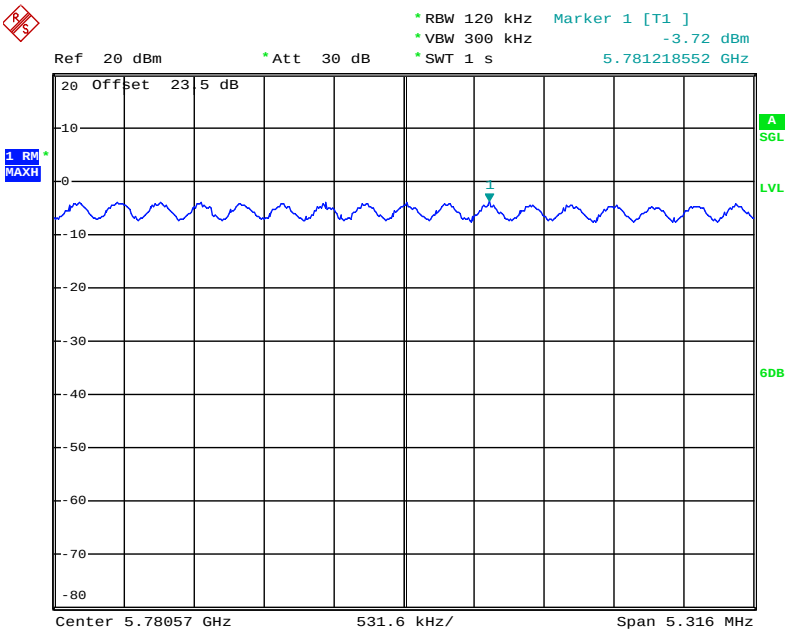
Date: 11.MAY.2012 08:47:44

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 5785 MHz (2TX)



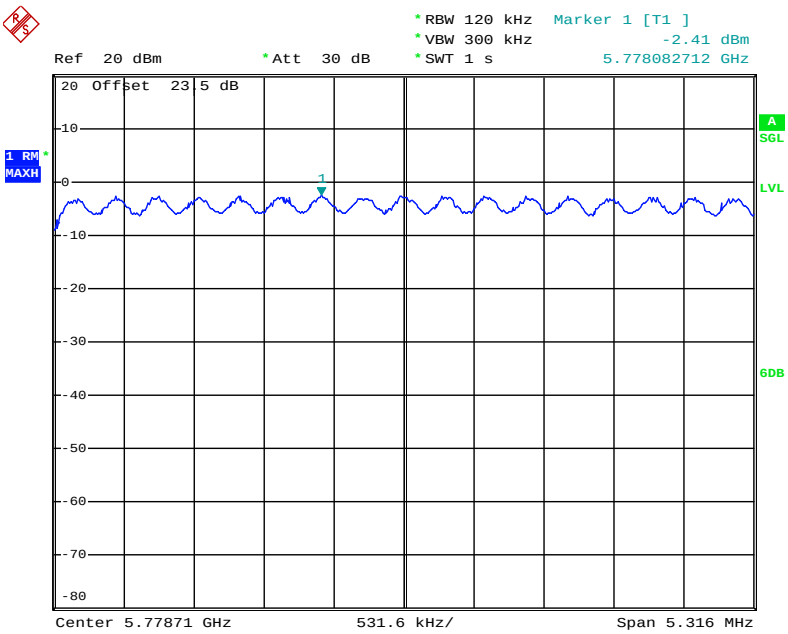
Date: 11.MAY.2012 08:47:20

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 / 5785 MHz (2TX)



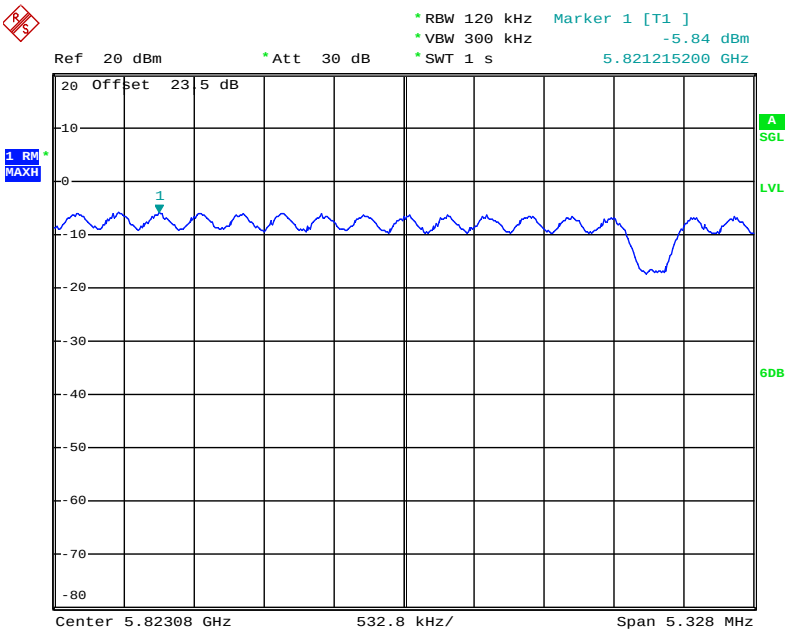
Date: 11.MAY.2012 08:50:22

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 2 / 5785 MHz (2TX)



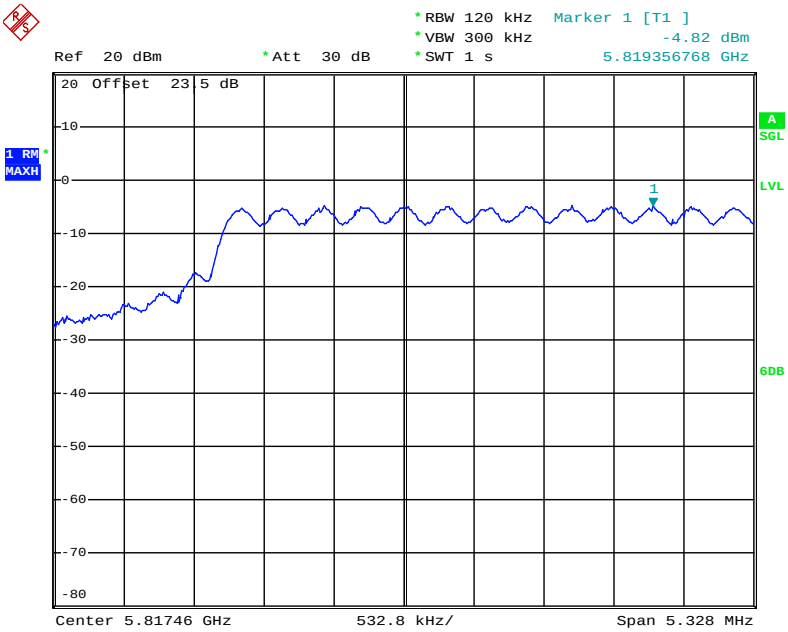
Date: 11.MAY.2012 08:50:49

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5745 MHz (3TX)



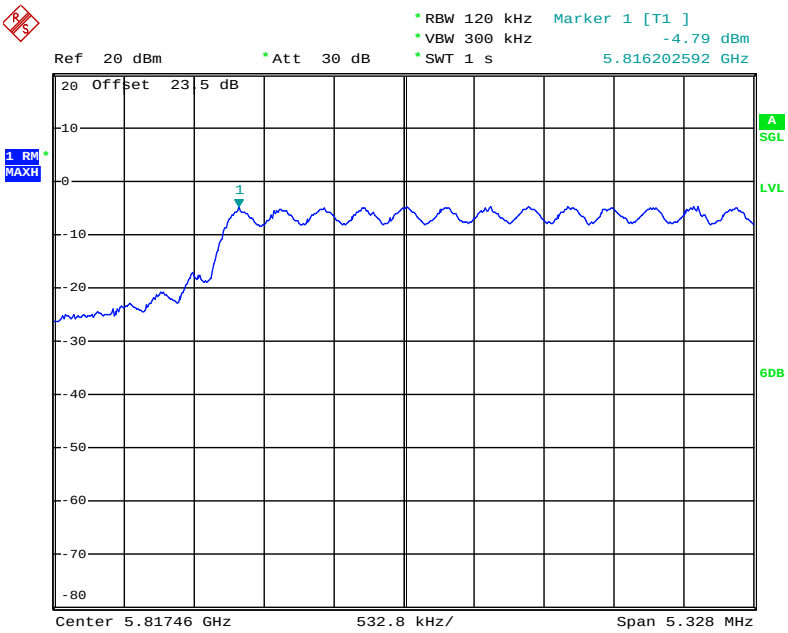
Date: 11.MAY.2012 08:41:28

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 5745 MHz (3TX)



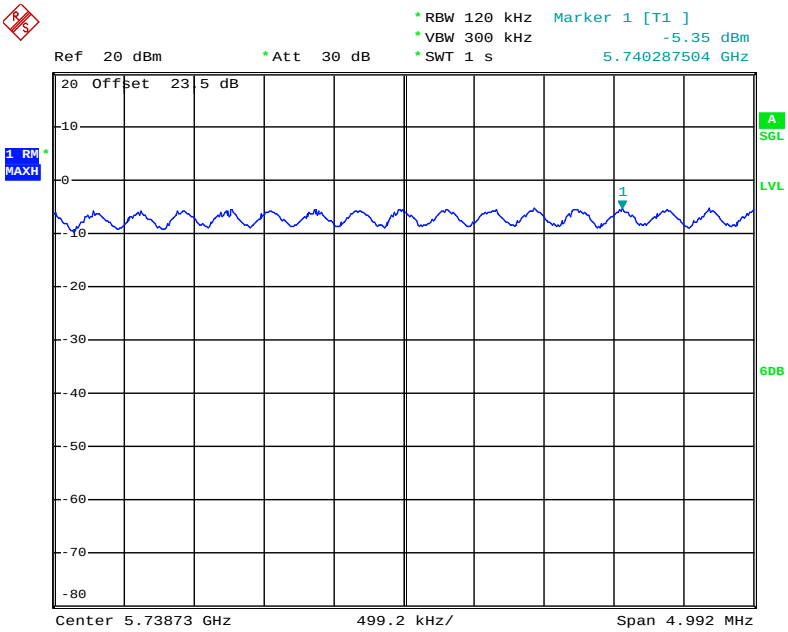
Date: 11.MAY.2012 08:41:48

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 3 / 5745 MHz (3TX)



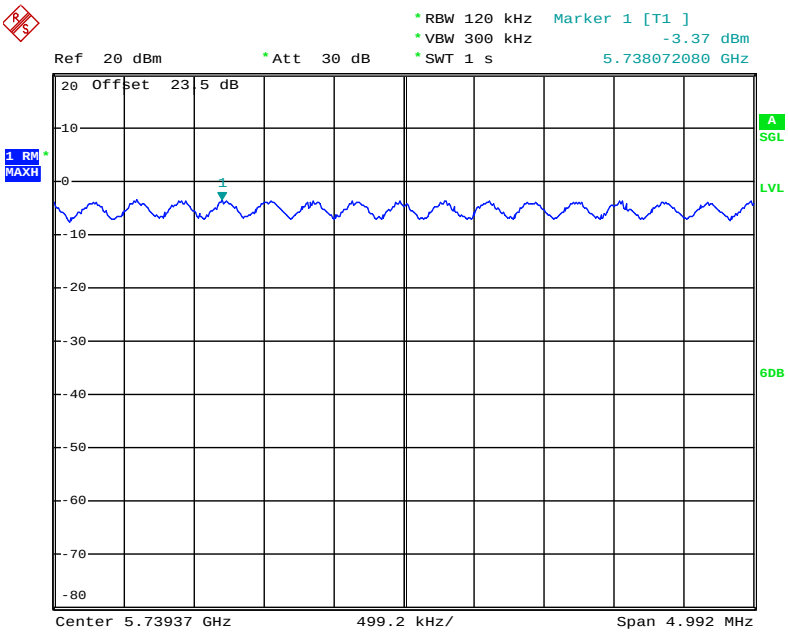
Date: 11.MAY.2012 08:42:07

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 / 5745 MHz (3TX)



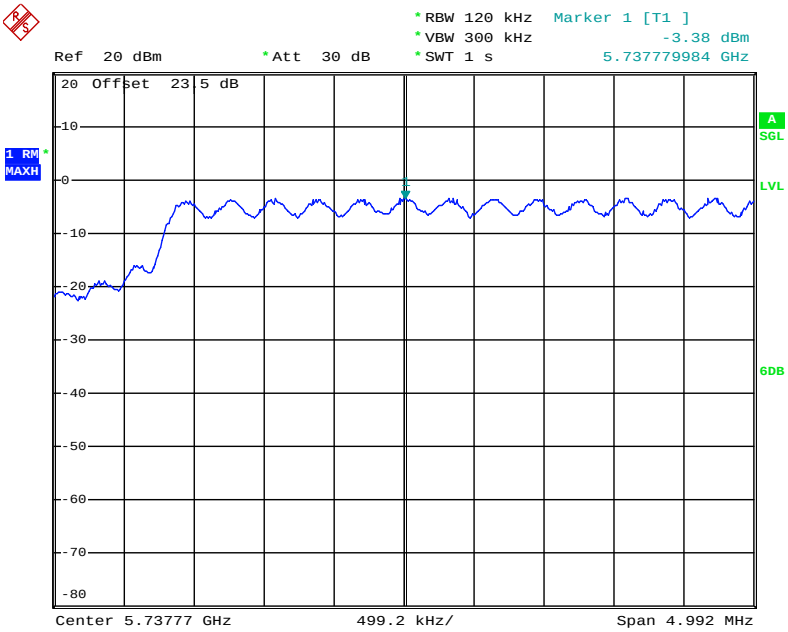
Date: 11.MAY.2012 08:38:02

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 2 / 5745 MHz (3TX)



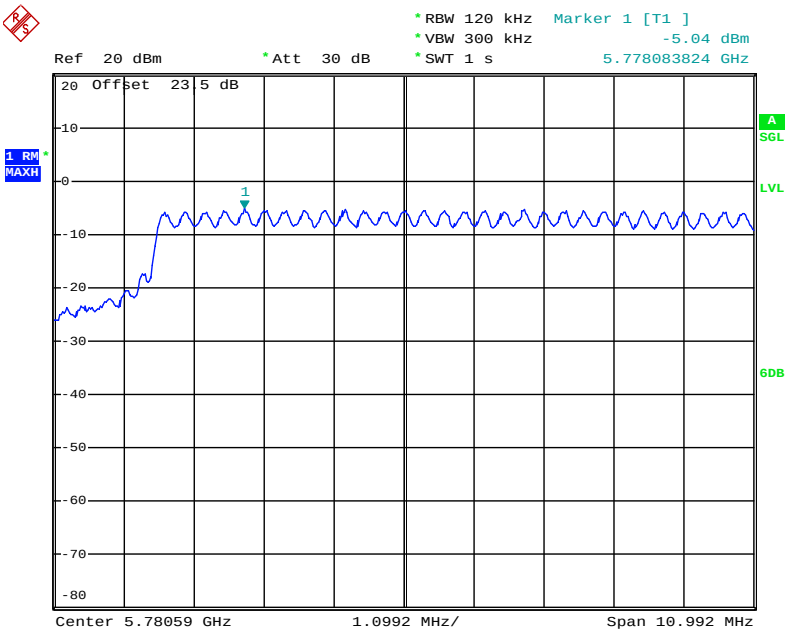
Date: 11.MAY.2012 08:37:39

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 3 / 5745 MHz (3TX)



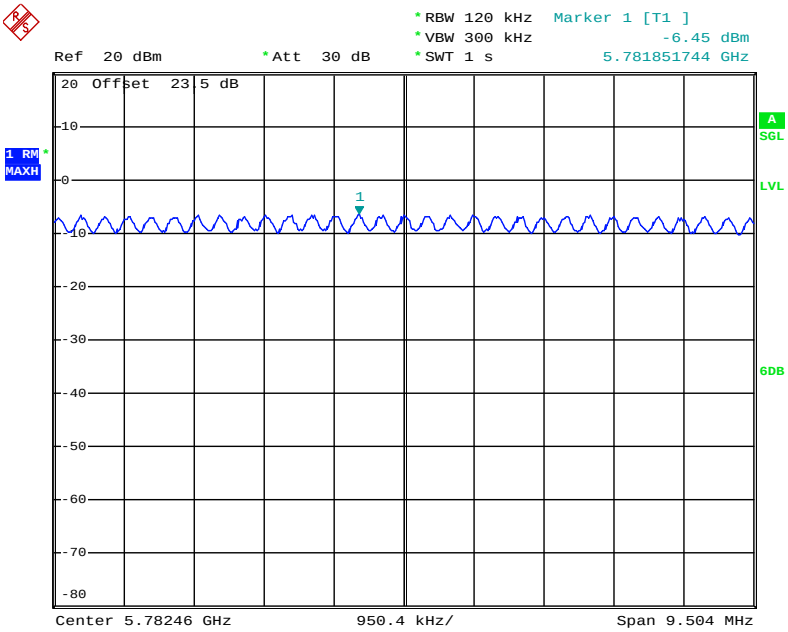
Date: 11.MAY.2012 08:37:17

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5795 MHz / (1TX)



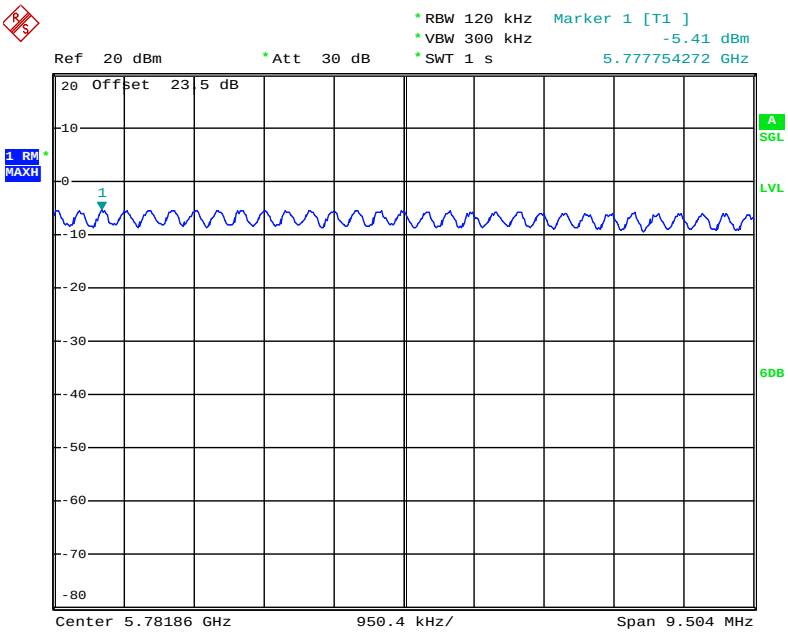
Date: 11.MAY.2012 08:59:14

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5795 MHz (2TX)



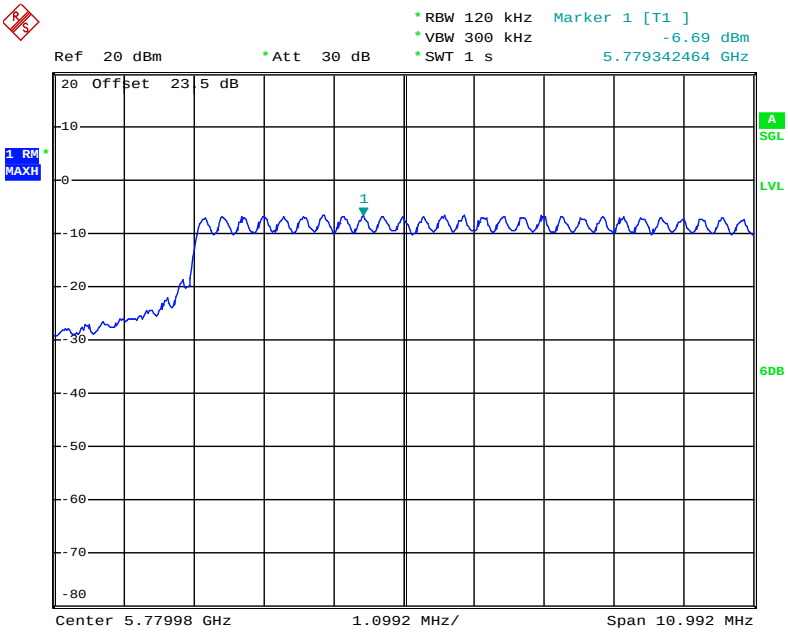
Date: 11.MAY.2012 08:54:30

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 2 / 5795 MHz (2TX)



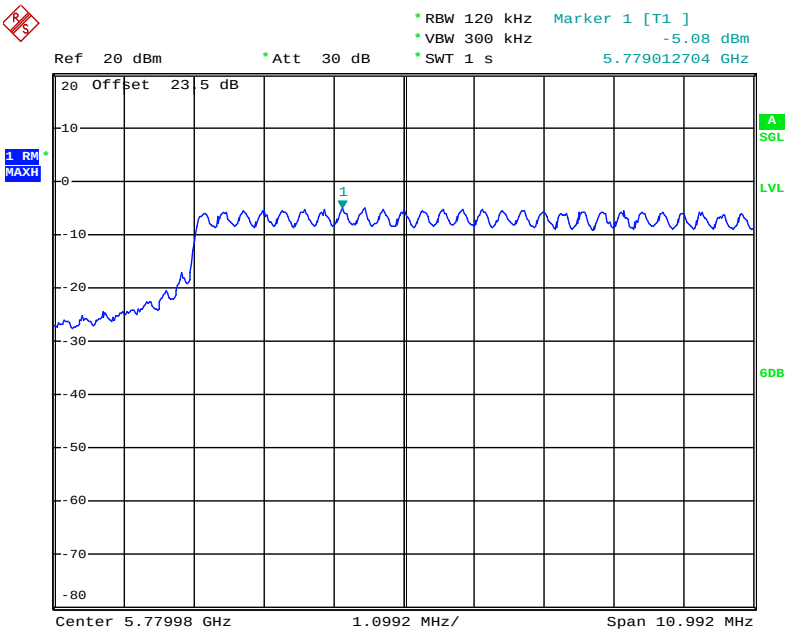
Date: 11.MAY.2012 08:54:51

Power Density Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 / 5795 MHz (2TX)



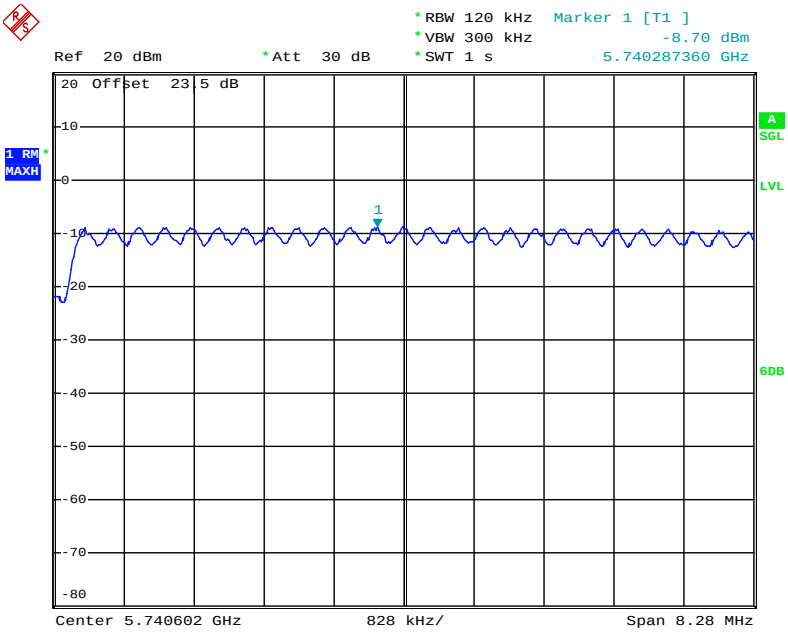
Date: 11.MAY.2012 08:53:43

Power Density Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 2 / 5795 MHz (2TX)



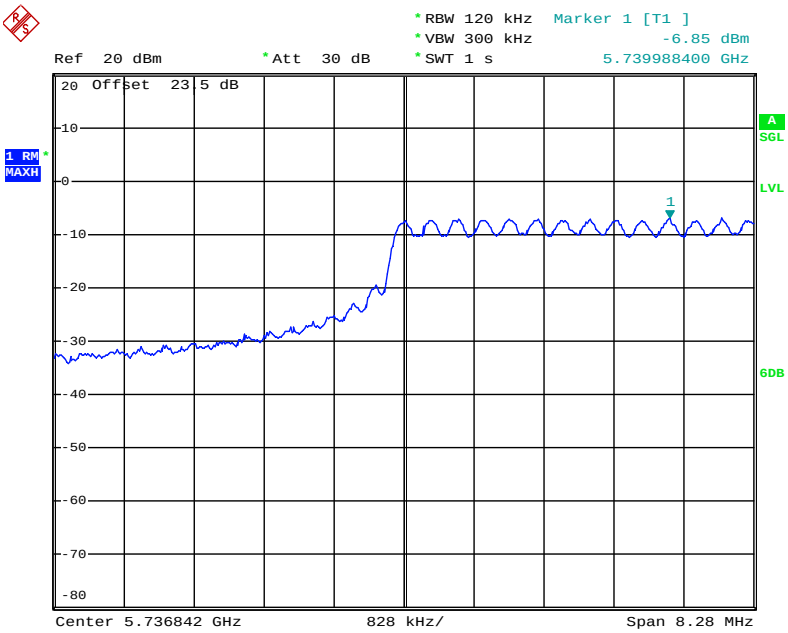
Date: 11.MAY.2012 08:53:19

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5755 MHz (3TX)



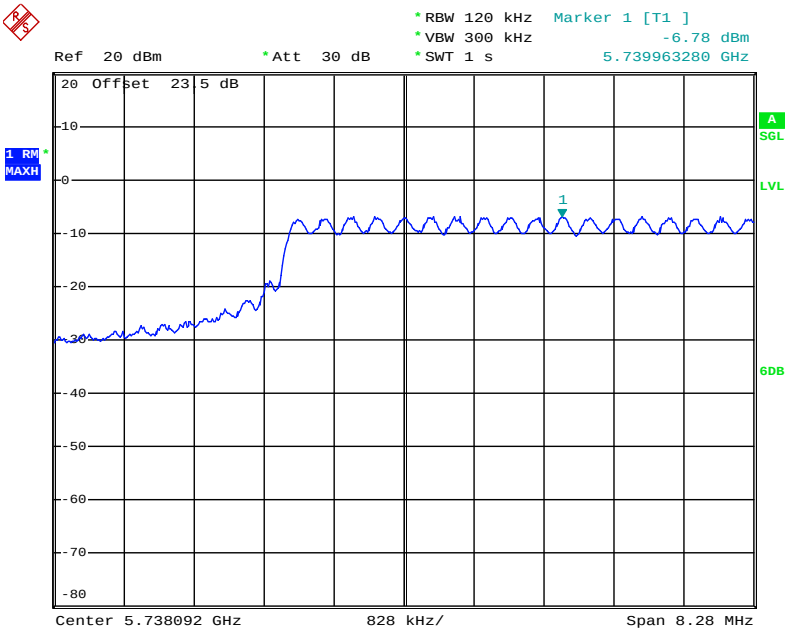
Date: 11.MAY.2012 08:31:49

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 2 / 5755 MHz (3TX)



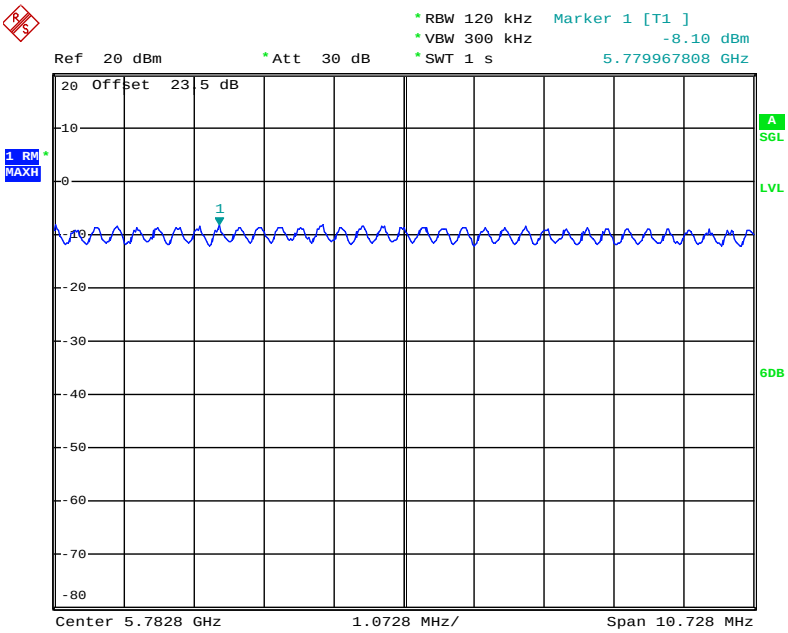
Date: 11.MAY.2012 08:31:14

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 3 / 5755 MHz (3TX)



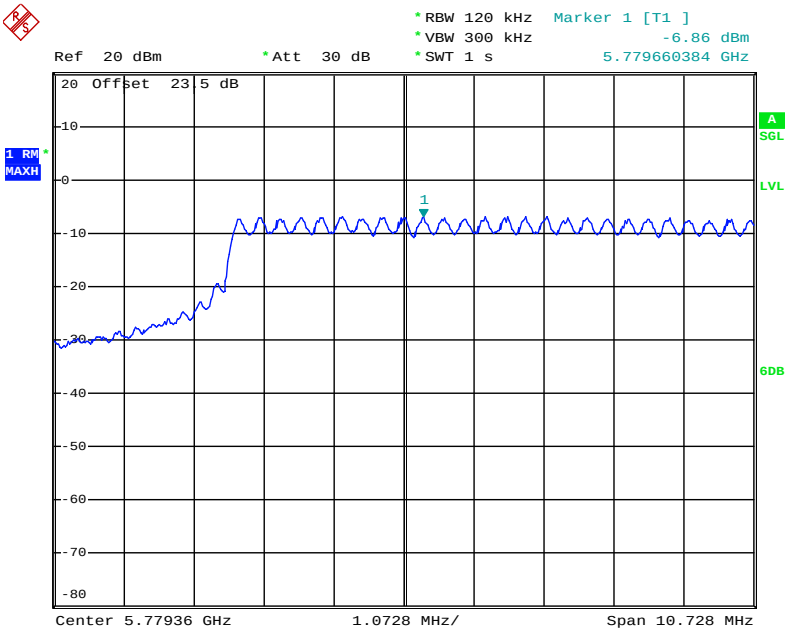
Date: 11.MAY.2012 08:30:42

Power Density Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 / 5795 MHz (3TX)



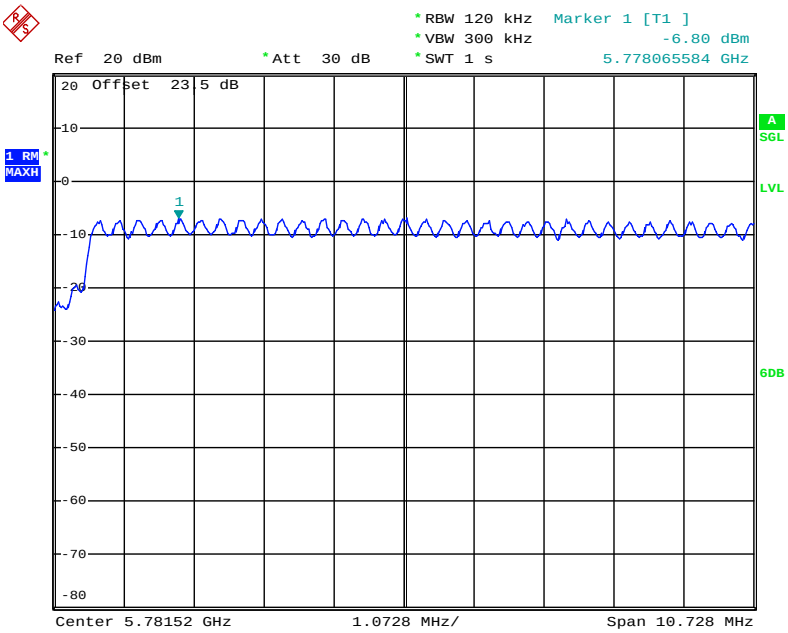
Date: 11.MAY.2012 08:35:20

Power Density Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 2 / 5795 MHz (3TX)



Date: 11.MAY.2012 08:34:54

Power Density Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 3 / 5795 MHz (3TX)



Date: 11.MAY.2012 08:34:29

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n
Test Mode	Mode 10 (Ant. 5 Facade antenna / 2.5dBi)		

1TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1

Channel	Frequency	Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-2.72	-15.23	-17.95	8.00	Complies
157	5785 MHz	-1.97	-15.23	-17.20	8.00	Complies
165	5825 MHz	-2.86	-15.23	-18.09	8.00	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1

Channel	Frequency	Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
151	5755 MHz	-8.31	-15.23	-23.54	8.00	Complies
159	5795 MHz	-5.81	-15.23	-21.04	8.00	Complies

2TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1+ Chain 2

Channel	Frequency	Power Density (dBm/100kHz)		Total Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2					
149	5745 MHz	-4.14	-2.32	-0.13	-15.23	-15.35	8.00	Complies
157	5785 MHz	-3.35	-2.37	0.18	-15.23	-15.05	8.00	Complies
165	5825 MHz	-3.95	-3.27	-0.59	-15.23	-15.82	8.00	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1+ Chain 2

Channel	Frequency	Power Density (dBm/100kHz)		Total Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2					
151	5755 MHz	-7.35	-5.98	-3.60	-15.23	-18.83	8.00	Complies
159	5795 MHz	-5.95	-5.05	-2.47	-15.23	-17.70	8.00	Complies

Configuration IEEE 802.11n MCS8 20MHz / Chain 1+ Chain 2

Channel	Frequency	Power Density (dBm/100kHz)		Total Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2					
149	5745 MHz	-3.31	-1.78	0.53	-15.23	-14.70	8.00	Complies
157	5785 MHz	-3.39	-2.15	0.28	-15.23	-14.94	8.00	Complies
165	5825 MHz	-4.01	-3.00	-0.47	-15.23	-15.69	8.00	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1+ Chain 2

Channel	Frequency	Power Density (dBm/100kHz)		Total Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2					
151	5755 MHz	-7.64	-5.99	-3.73	-15.23	-18.96	8.00	Complies
159	5795 MHz	-5.96	-4.65	-2.25	-15.23	-17.47	8.00	Complies

3TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1+ Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			Total Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3					
149	5745 MHz	-5.14	-3.19	-3.14	1.04	-15.23	-14.19	6.73	Complies
157	5785 MHz	-4.52	-3.60	-3.60	0.89	-15.23	-14.34	6.73	Complies
165	5825 MHz	-5.13	-4.68	-4.21	0.11	-15.23	-15.11	6.73	Complies

Note: $\text{Directional gain} = G_{ANT} + 10\log(N)\ \text{dBi}$ =7.27dBi > 6dBi, so the power density limit =8-(7.27-6)=6.73dBm.

Configuration IEEE 802.11n MCS0 40MHz / Chain 1+ Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			Total Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3					
151	5755 MHz	-9.52	-7.59	-7.10	-3.18	-15.23	-18.41	6.73	Complies
159	5795 MHz	-7.63	-6.29	-6.48	-1.99	-15.23	-17.22	6.73	Complies

Note: $\text{Directional gain} = G_{ANT} + 10\log(N)\ \text{dBi}$ =7.27dBi > 6dBi, so the power density limit =8-(7.27-6)=6.73dBm.

Configuration IEEE 802.11n MCS8 20MHz / Chain 1+ Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			Total Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3					
149	5745 MHz	-4.82	-3.42	-3.44	0.93	-15.23	-14.30	8.00	Complies
157	5785 MHz	-5.05	-3.64	-3.77	0.66	-15.23	-14.57	8.00	Complies
165	5825 MHz	-5.44	-4.26	-4.30	0.14	-15.23	-15.09	8.00	Complies

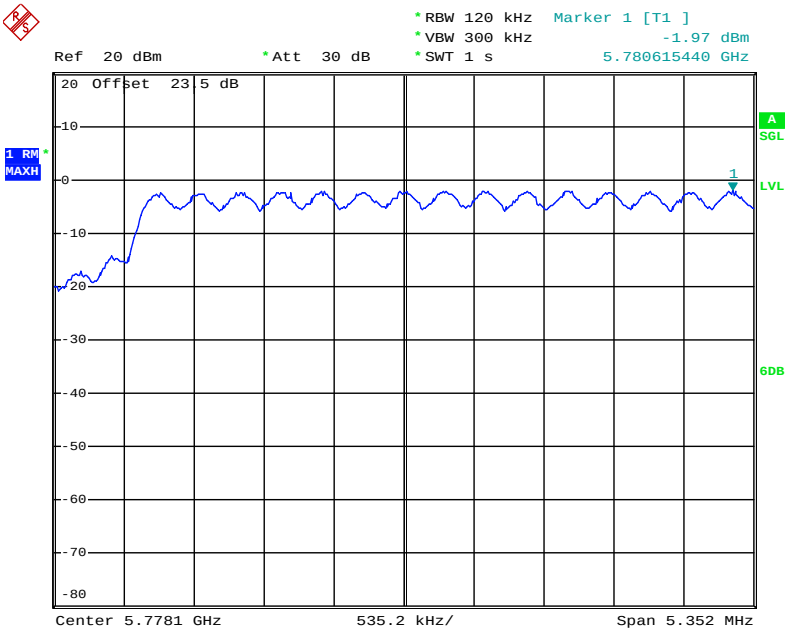
Configuration IEEE 802.11n MCS8 40MHz / Chain 1+ Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			Total Power Density (dBm/100kHz)	BWCF factor (100KHz to 3KHz	Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3					
151	5755 MHz	-8.94	-7.45	-7.08	-2.98	-15.23	-18.21	8.00	Complies
159	5795 MHz	-8.02	-6.66	-6.57	-2.26	-15.23	-17.49	8.00	Complies

Note: All the test values were listed in the report.

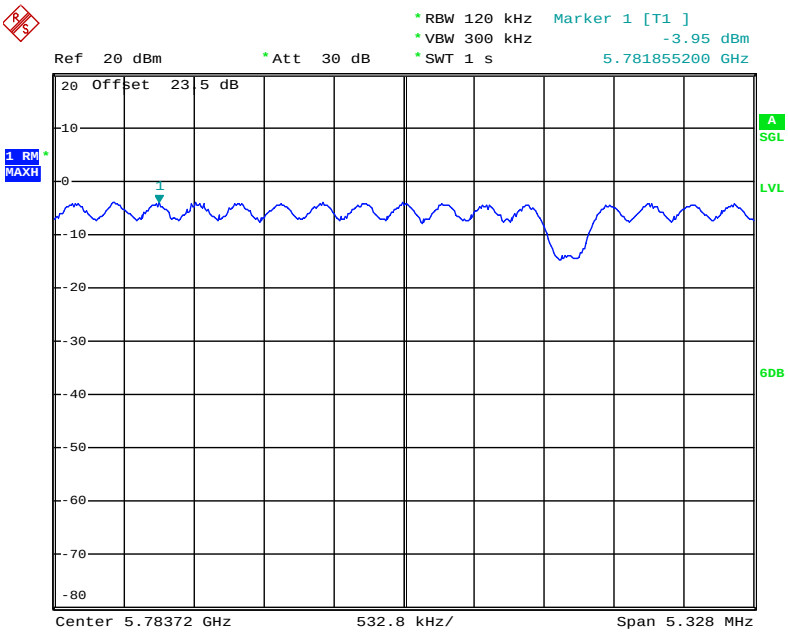
For plots, only the channel with maximum results was shown.

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5785 MHz (1TX)



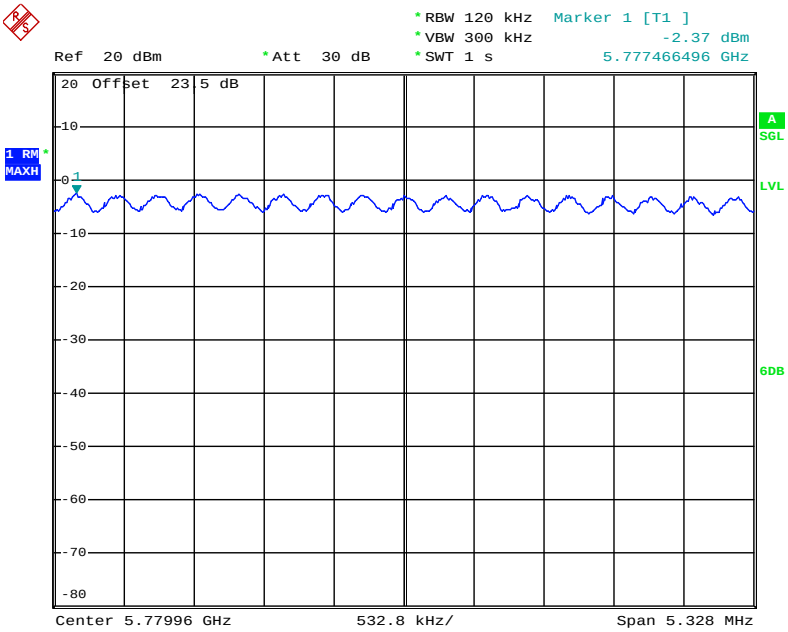
Date: 11.MAY.2012 05:55:31

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5785 MHz (2TX)



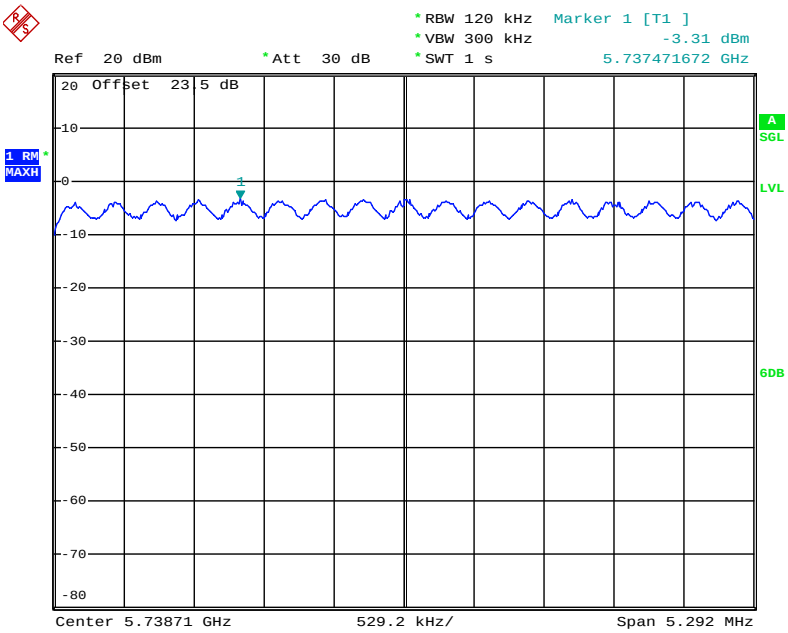
Date: 11.MAY.2012 05:41:04

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 5785 MHz (2TX)



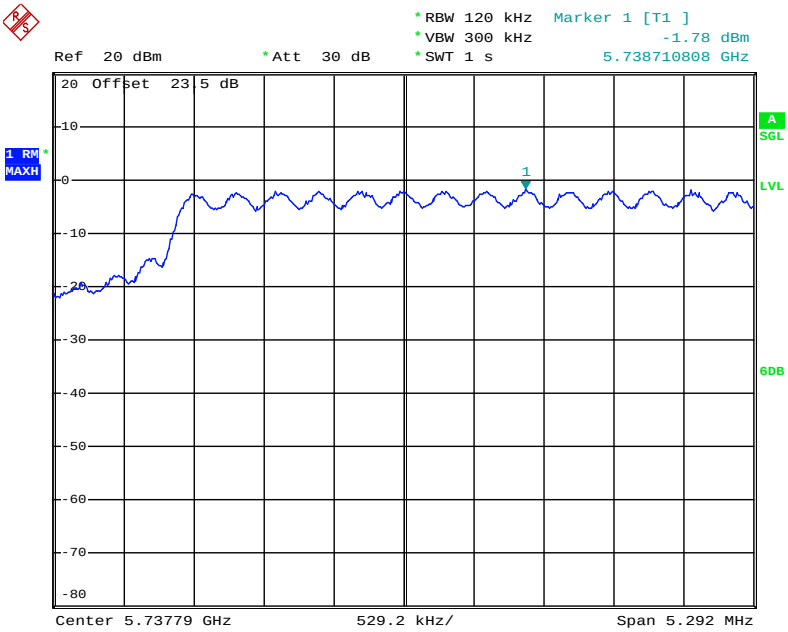
Date: 11.MAY.2012 05:40:40

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 / 5745 MHz (2TX)



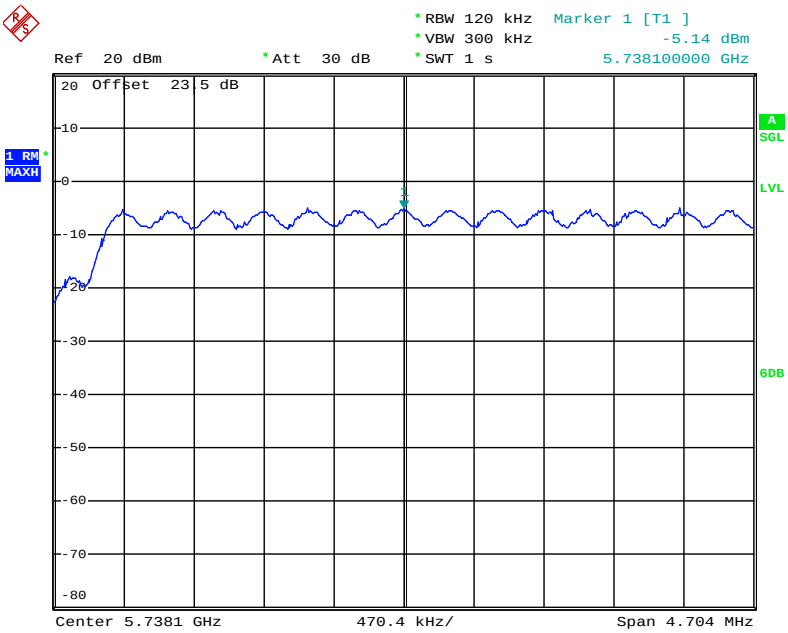
Date: 11.MAY.2012 05:45:38

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 2 / 5745 MHz (2TX)



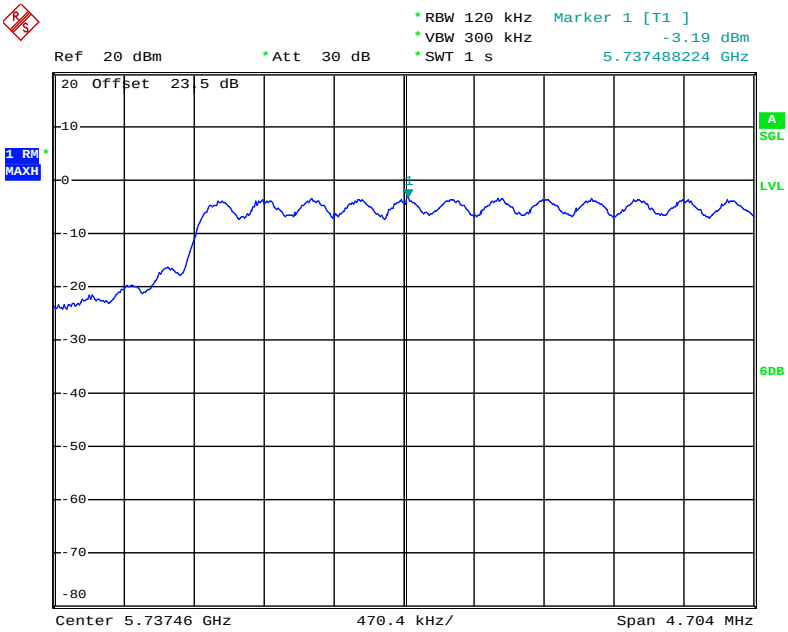
Date: 11.MAY.2012 05:45:10

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5745 MHz (3TX)



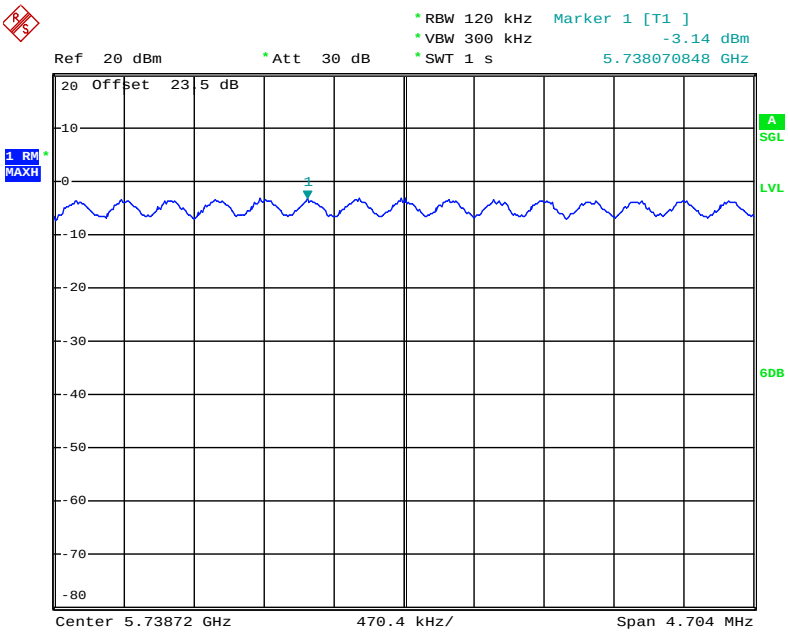
Date: 11.MAY.2012 05:38:31

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 5745 MHz (3TX)



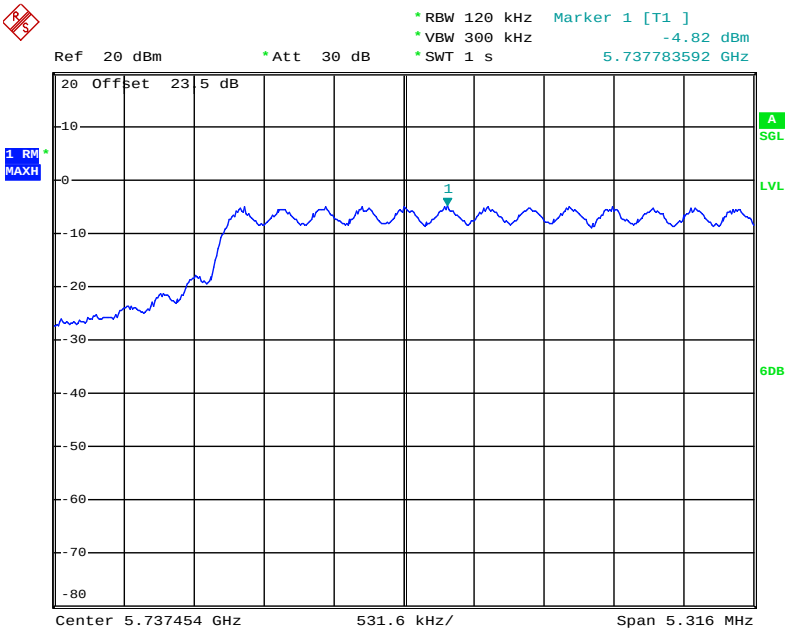
Date: 11.MAY.2012 05:38:10

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 3 / 5745 MHz (3TX)



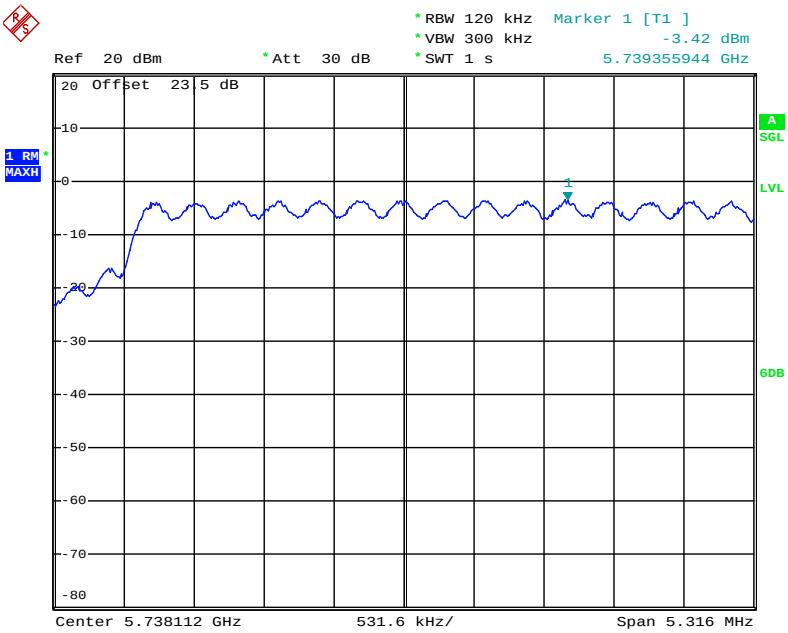
Date: 11.MAY.2012 05:37:51

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 / 5745 MHz (3TX)



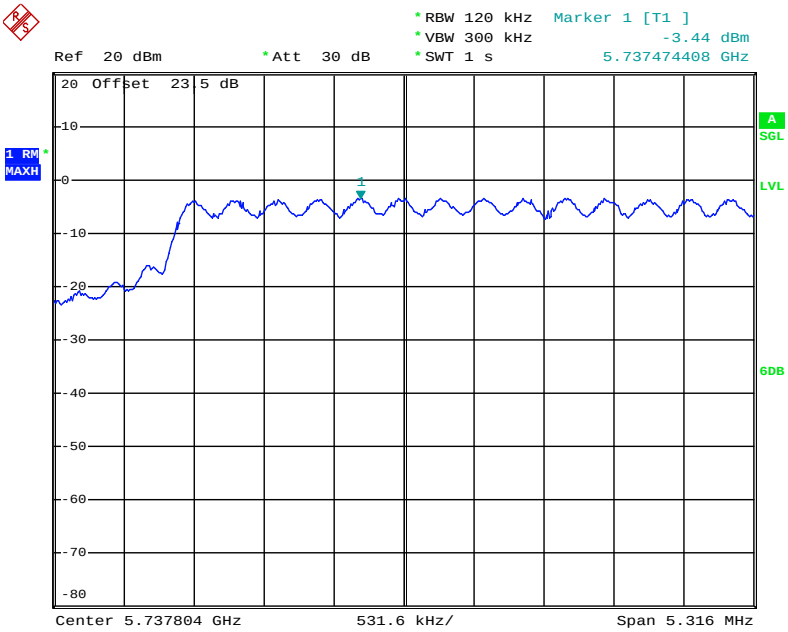
Date: 11.MAY.2012 05:24:54

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 2 / 5745 MHz (3TX)



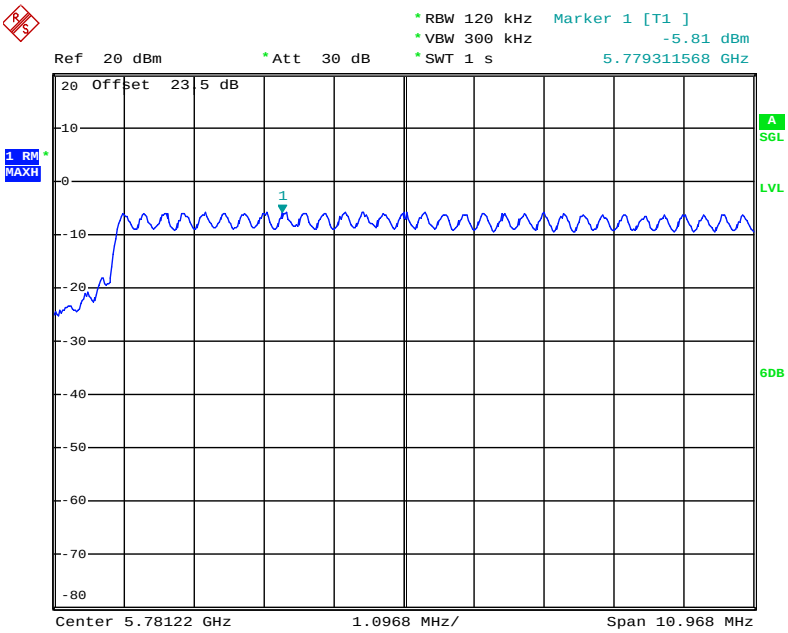
Date: 11.MAY.2012 05:25:53

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 3 / 5745 MHz (3TX)



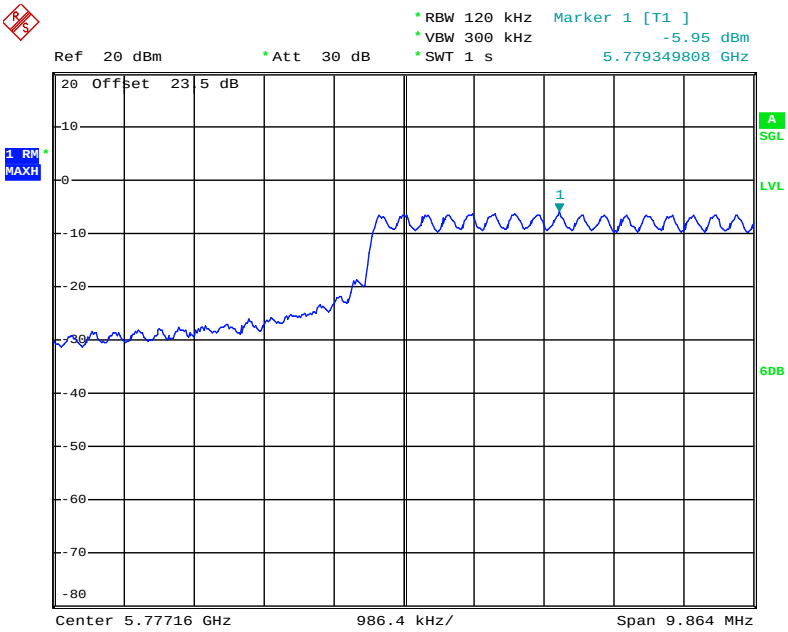
Date: 11.MAY.2012 05:27:01

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5795 MHz / (1TX)



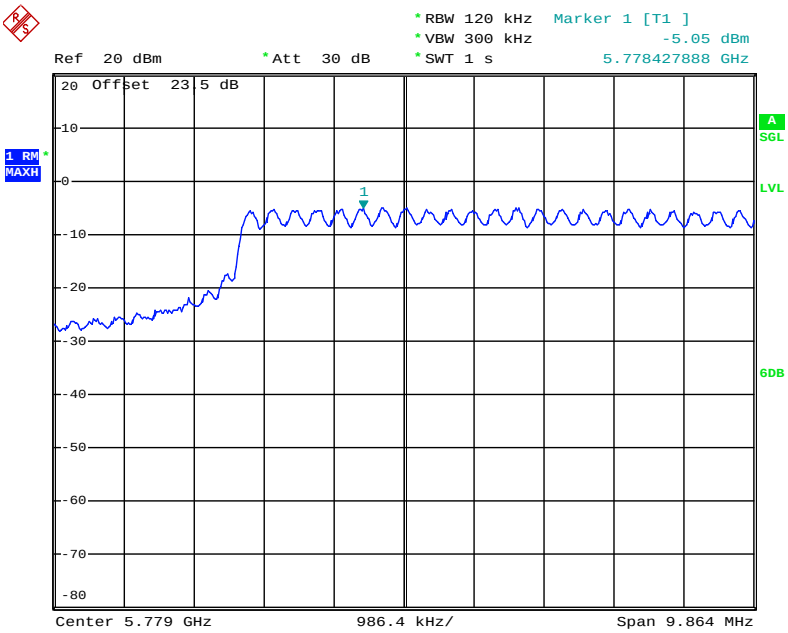
Date: 11.MAY.2012 05:53:37

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5795 MHz (2TX)



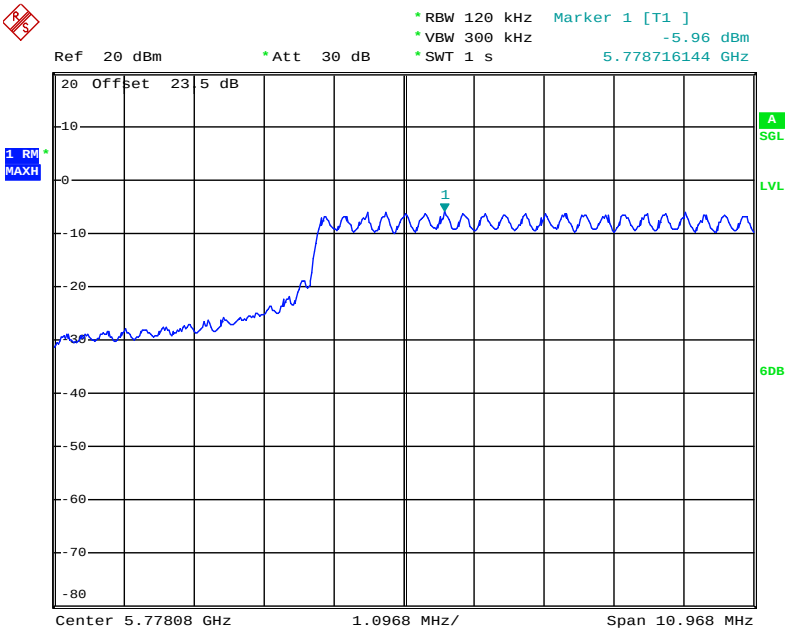
Date: 11.MAY.2012 05:49:20

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 2 / 5795 MHz (2TX)



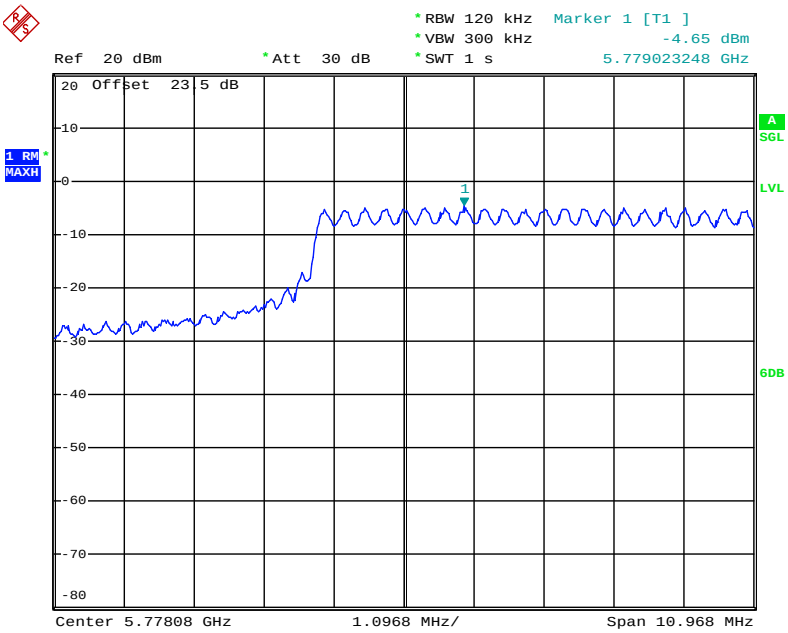
Date: 11.MAY.2012 05:50:23

Power Density Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 / 5795 MHz (2TX)



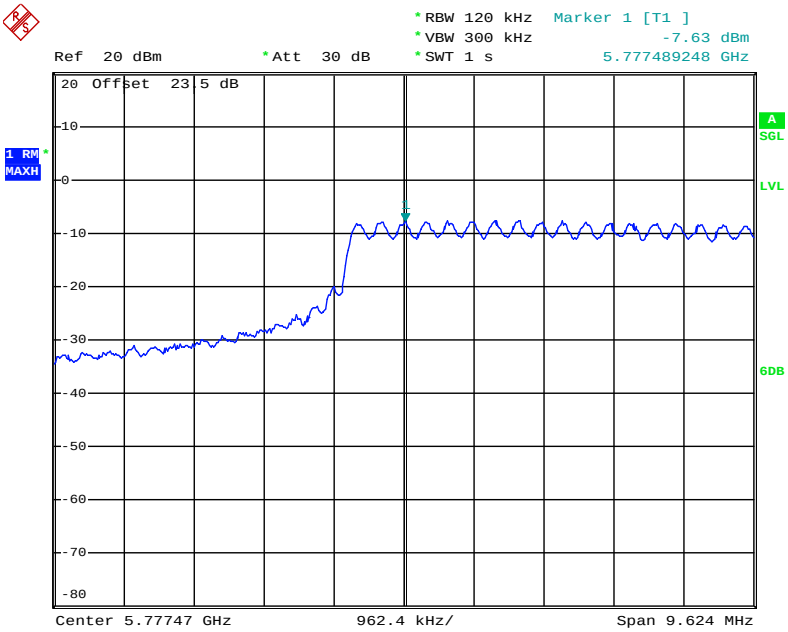
Date: 11.MAY.2012 05:48:30

Power Density Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 2 / 5795 MHz (2TX)



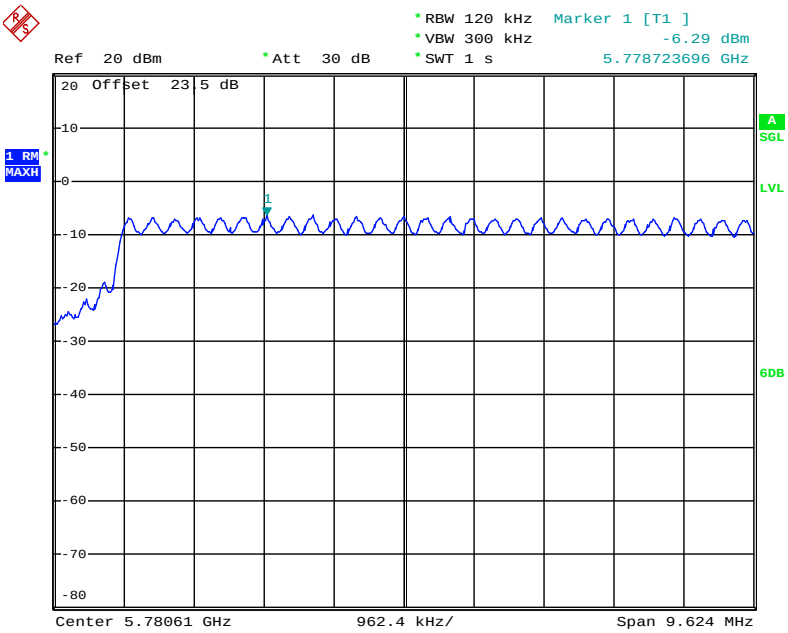
Date: 11.MAY.2012 05:48:05

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5795 MHz (3TX)



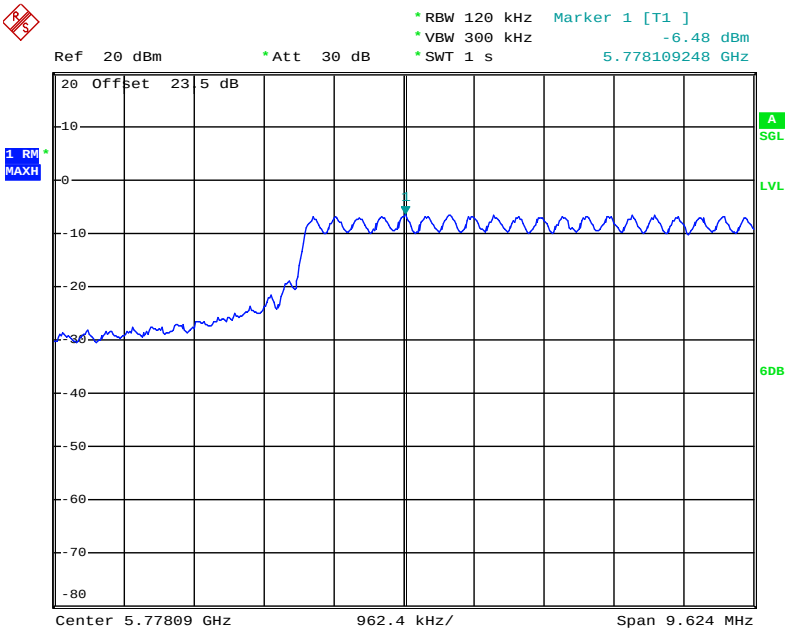
Date: 11.MAY.2012 05:13:29

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 2 / 5795 MHz (3TX)



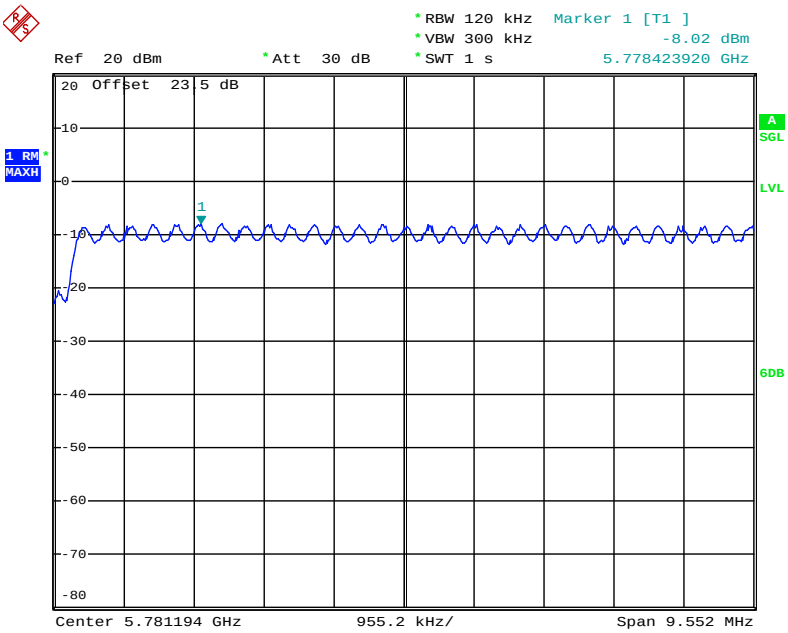
Date: 11.MAY.2012 05:13:05

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 3 / 5795 MHz (3TX)



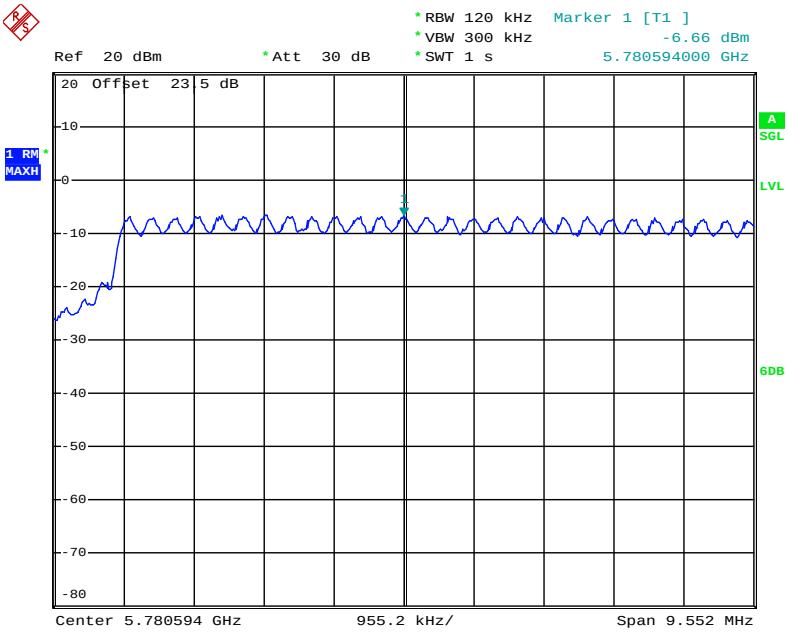
Date: 11.MAY.2012 05:12:38

Power Density Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 / 5795 MHz (3TX)



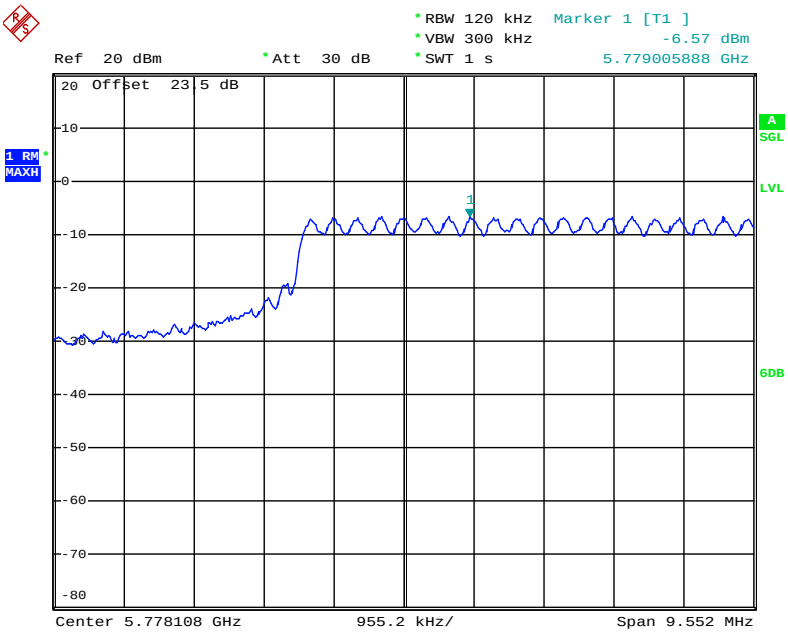
Date: 11.MAY.2012 05:23:03

Power Density Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 2 / 5795 MHz (3TX)



Date: 11.MAY.2012 05:21:58

Power Density Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 3 / 5795 MHz (3TX)



Date: 11.MAY.2012 05:20:51

4.4. 6dB Spectrum Bandwidth Measurement

4.4.1. Limit

For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz.

4.4.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 6dB Bandwidth
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.4.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
2. The resolution bandwidth of 100 kHz and the video bandwidth of 100 kHz were used.
3. Measured the spectrum width with power higher than 6dB below carrier.

4.4.4. Test Setup Layout

4.4.5. Test Deviation

There is no deviation with the original standard.

4.4.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.4.7. Test Result of 6dB Spectrum Bandwidth

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n
Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi)		

1TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.84	17.72	500	Complies
6	2437 MHz	17.80	17.72	500	Complies
11	2462 MHz	17.84	17.72	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.64	36.40	500	Complies
6	2437 MHz	36.56	36.40	500	Complies
9	2452 MHz	36.48	36.32	500	Complies

2TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	13.56	16.44	500	Complies
6	2437 MHz	13.56	16.56	500	Complies
11	2462 MHz	17.84	17.88	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.72	36.72	500	Complies
6	2437 MHz	36.56	36.56	500	Complies
9	2452 MHz	32.40	35.28	500	Complies

Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.64	17.64	500	Complies
6	2437 MHz	17.64	17.64	500	Complies
11	2462 MHz	17.60	17.64	500	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.64	36.40	500	Complies
6	2437 MHz	36.56	36.40	500	Complies
9	2452 MHz	36.56	36.32	500	Complies

3TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.08	17.48	500	Complies
6	2437 MHz	15.12	17.52	500	Complies
11	2462 MHz	7.92	15.84	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.00	36.24	500	Complies
6	2437 MHz	35.76	36.16	500	Complies
9	2452 MHz	28.00	34.32	500	Complies

Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.96	17.44	500	Complies
6	2437 MHz	17.08	17.68	500	Complies
11	2462 MHz	17.64	17.68	500	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.48	36.48	500	Complies
6	2437 MHz	31.12	36.16	500	Complies
9	2452 MHz	36.48	36.32	500	Complies

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b/g
Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi)		

1TX

Configuration IEEE 802.11b / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	10.04	13.92	500	Complies
6	2437 MHz	10.08	13.84	500	Complies
11	2462 MHz	10.08	13.88	500	Complies

2TX

Configuration IEEE 802.11b / Chain 1 + Chain 2

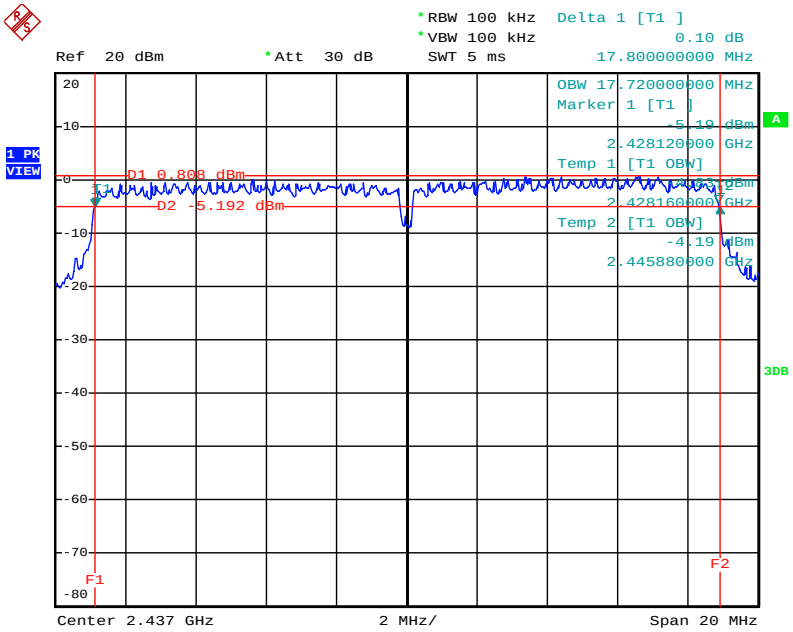
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	12.04	12.44	500	Complies
6	2437 MHz	13.56	15.36	500	Complies
11	2462 MHz	9.04	12.44	500	Complies

3TX

Configuration IEEE 802.11b / Chain 1 + Chain 2 + Chain 3

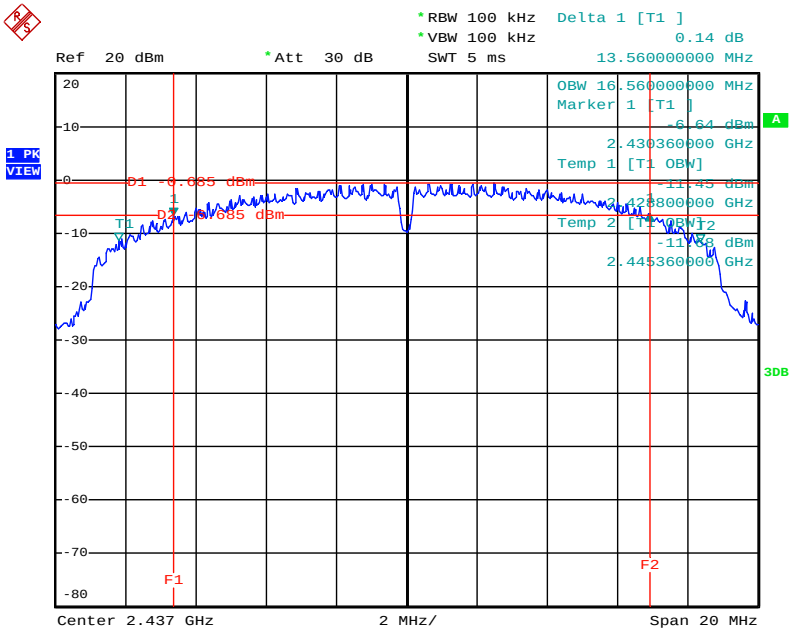
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	9.52	15.56	500	Complies
6	2437 MHz	7.04	10.16	500	Complies
11	2462 MHz	10.56	15.36	500	Complies

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 2437 MHz (1TX)



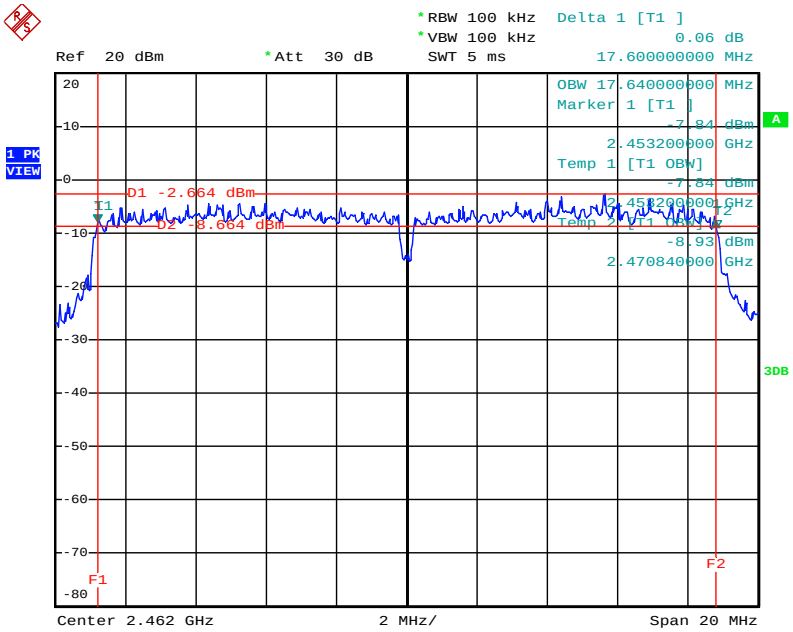
Date: 9.MAY.2012 12:28:42

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2/ 2437 MHz (2TX)



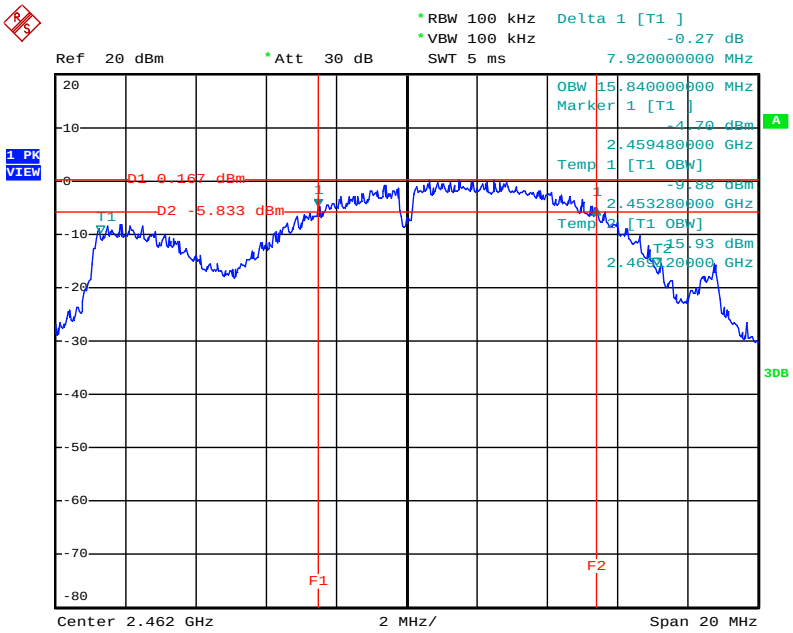
Date: 9.MAY.2012 12:32:32

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 / 2462 MHz (2TX)



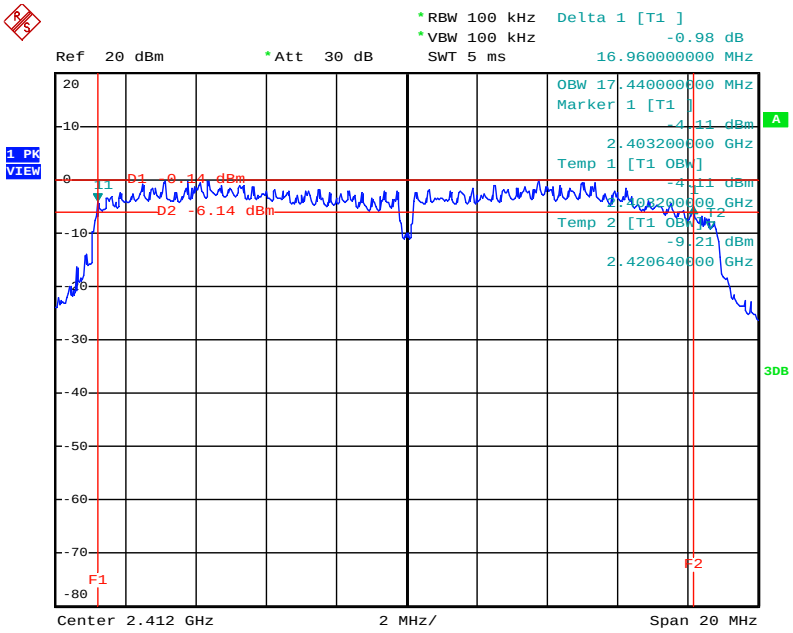
Date: 9.MAY.2012 12:36:24

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 + Chain 3 / 2462 MHz (3TX)



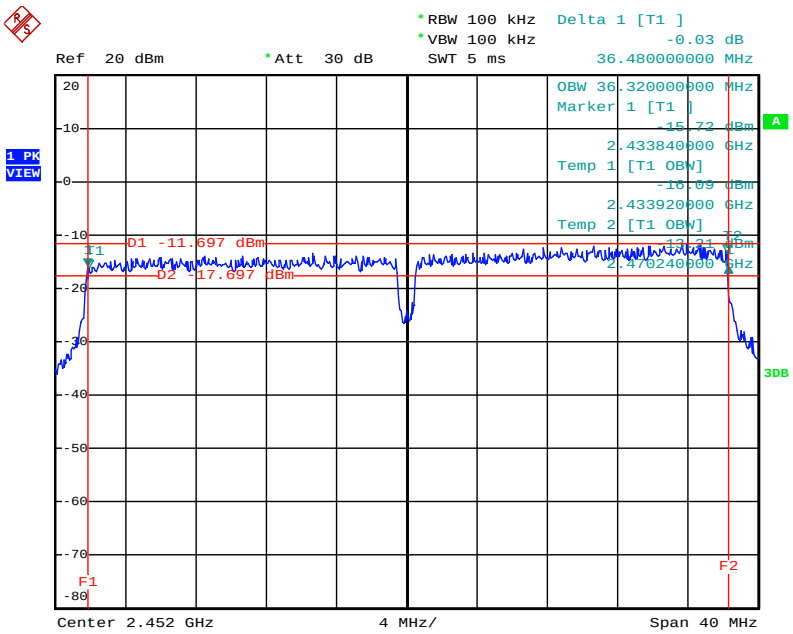
Date: 9.MAY.2012 12:42:09

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 + Chain 3 / 2412 MHz (3TX)



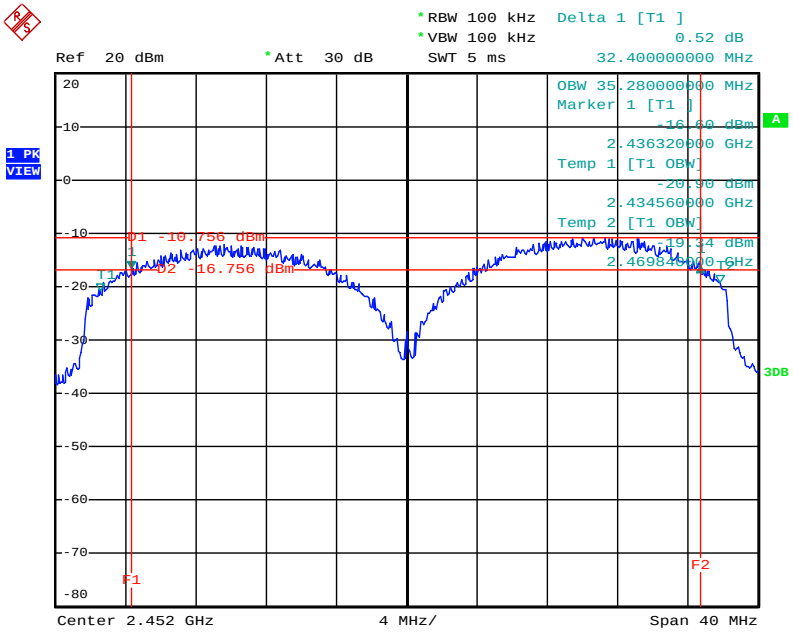
Date: 9.MAY.2012 12:37:05

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 2452 MHz (1TX)



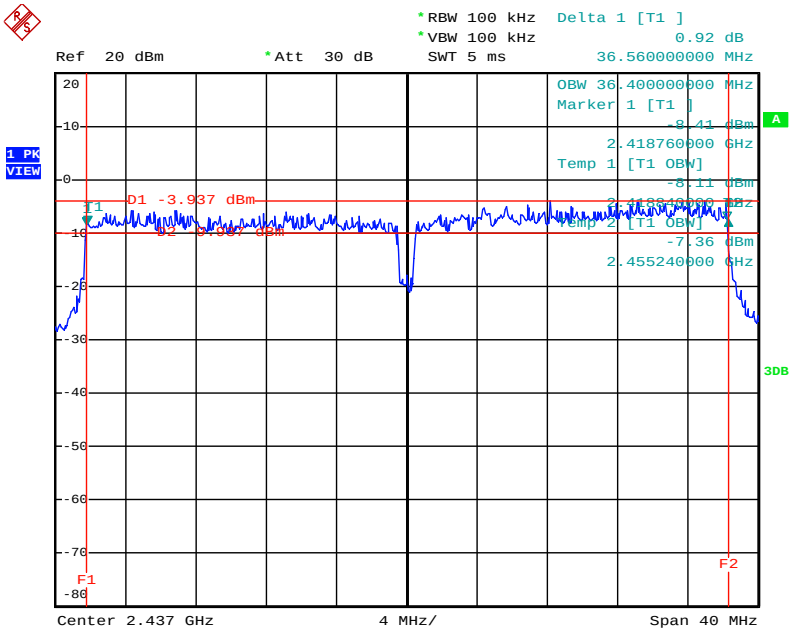
Date: 9.MAY.2012 12:26:43

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 / 2452 MHz (2TX)



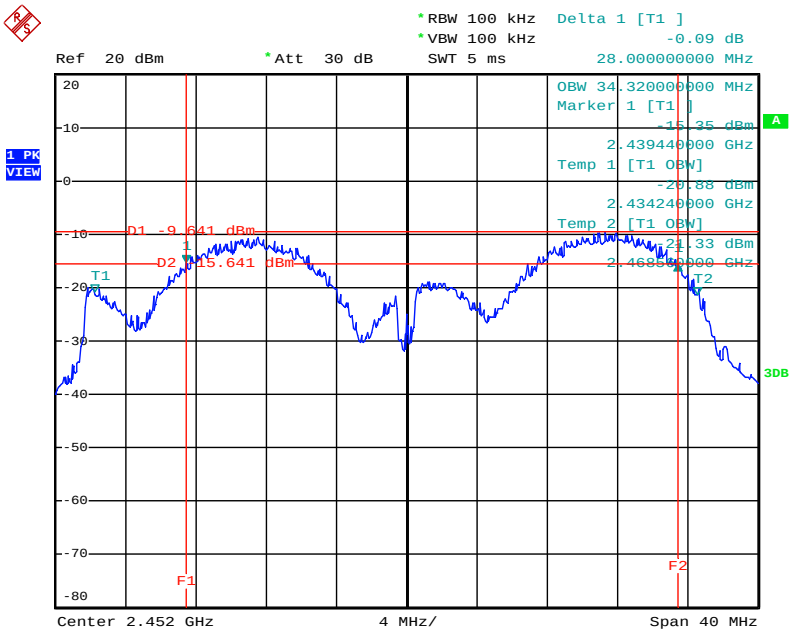
Date: 9.MAY.2012 12:34:02

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 / 2437 MHz (2TX)



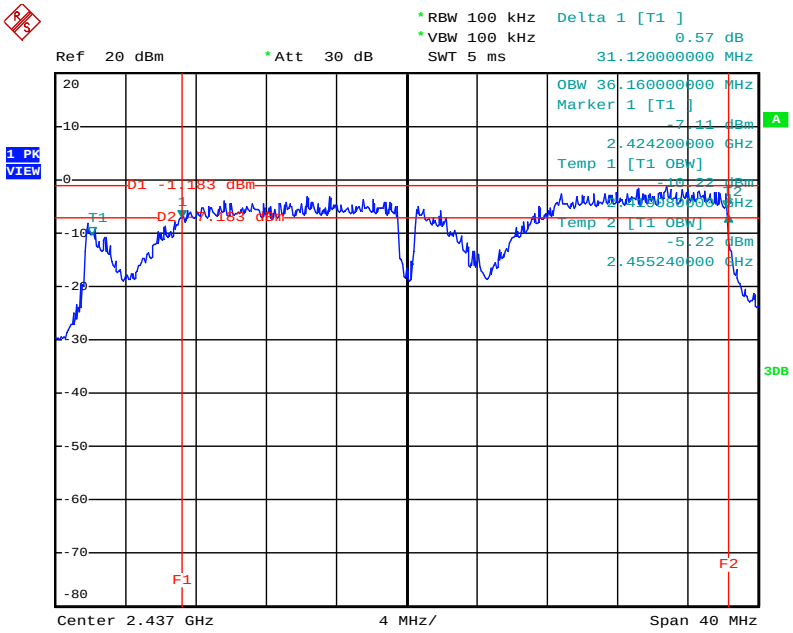
Date: 9.MAY.2012 12:34:54

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 + Chain 3 / 2452 MHz (3TX)



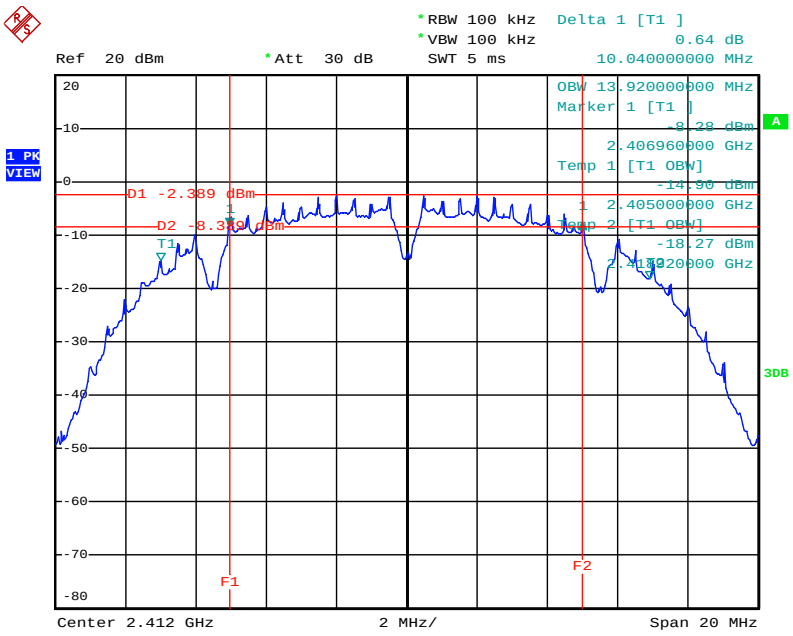
Date: 9.MAY.2012 12:39:29

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 + Chain 3 / 2437 MHz (3TX)



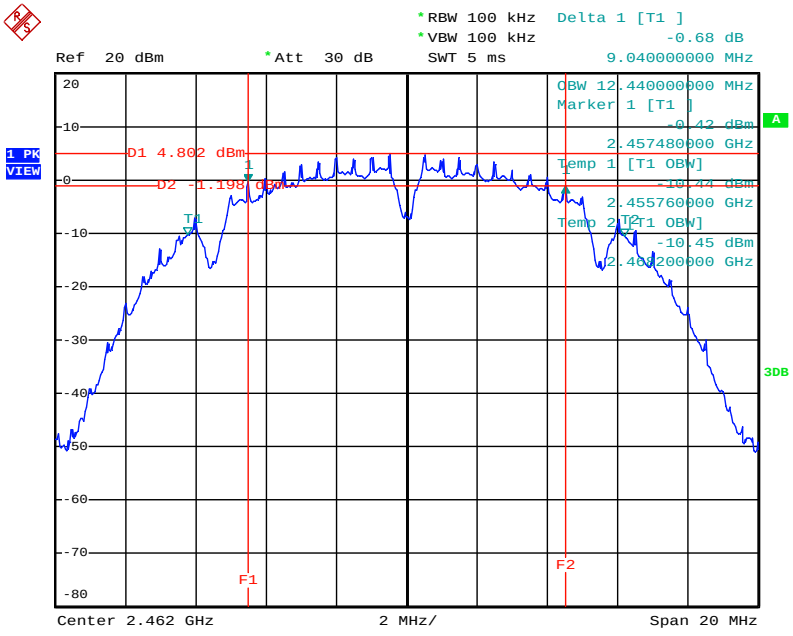
Date: 9.MAY.2012 12:38:31

6 dB Bandwidth Plot on Configuration IEEE 802.11b / Chain 1 / 2412 MHz (1TX)



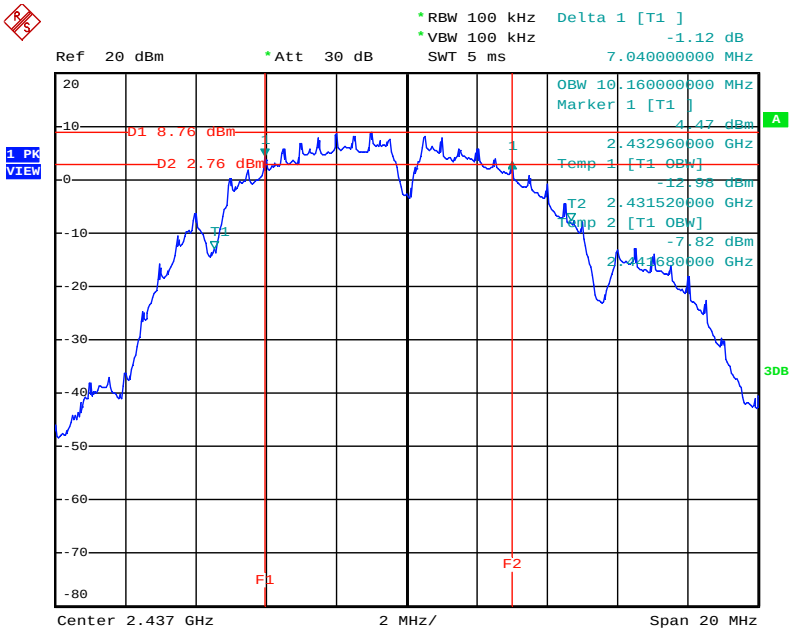
Date: 9.MAY.2012 12:29:32

6 dB Bandwidth Plot on Configuration IEEE 802.11b / Chain 1 + Chain 2 / 2462 MHz (2TX)



Date: 9.MAY.2012 12:31:33

6 dB Bandwidth Plot on Configuration IEEE 802.11b / Chain 1 + Chain 2 + Chain 3 / 2437 MHz (3TX)



Date: 9.MAY.2012 12:45:05

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n
Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi)		

1TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.84	17.72	500	Complies
6	2437 MHz	17.76	17.72	500	Complies
11	2462 MHz	17.72	17.68	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.64	36.40	500	Complies
6	2437 MHz	36.56	36.40	500	Complies
9	2452 MHz	36.56	36.32	500	Complies

2TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	13.56	16.48	500	Complies
6	2437 MHz	17.84	17.92	500	Complies
11	2462 MHz	17.84	17.92	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	33.92	35.52	500	Complies
6	2437 MHz	36.56	36.56	500	Complies
9	2452 MHz	36.56	36.56	500	Complies

Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.60	17.64	500	Complies
6	2437 MHz	17.64	17.64	500	Complies
11	2462 MHz	17.64	17.60	500	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.56	36.40	500	Complies
6	2437 MHz	36.56	36.40	500	Complies
9	2452 MHz	36.48	36.40	500	Complies

3TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.80	18.08	500	Complies
6	2437 MHz	16.36	17.36	500	Complies
11	2462 MHz	7.88	15.80	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.40	36.32	500	Complies
6	2437 MHz	28.24	36.56	500	Complies
9	2452 MHz	34.64	36.08	500	Complies

Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.72	17.72	500	Complies
6	2437 MHz	17.00	17.52	500	Complies
11	2462 MHz	17.36	17.56	500	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.48	36.32	500	Complies
6	2437 MHz	36.48	36.40	500	Complies
9	2452 MHz	36.48	36.32	500	Complies

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b/g
Test Mode	Mode 2 (Ant. 2 Patch antenna / 3dBi)		

1TX

Configuration IEEE 802.11b / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	10.08	13.88	500	Complies
6	2437 MHz	10.08	14.00	500	Complies
11	2462 MHz	10.04	13.88	500	Complies

2TX

Configuration IEEE 802.11b / Chain 1 + Chain 2

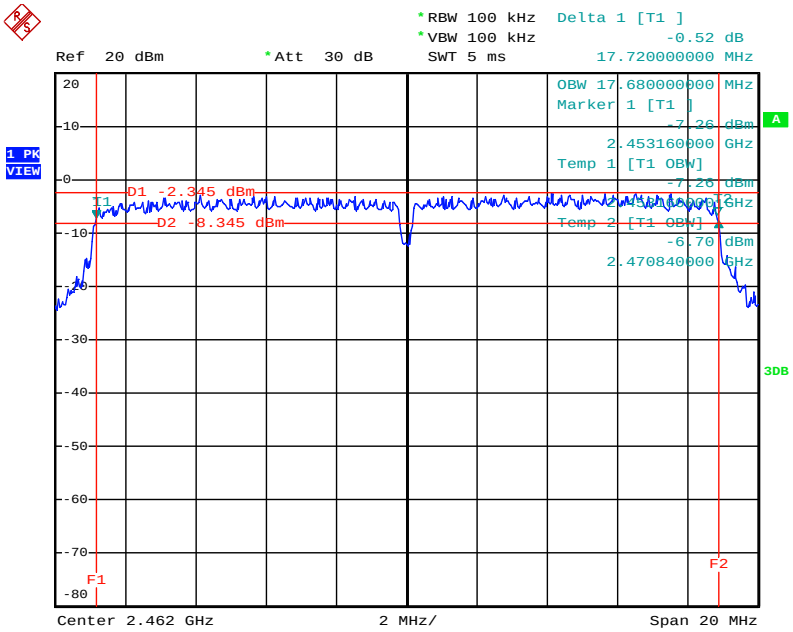
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	8.52	12.40	500	Complies
6	2437 MHz	8.60	12.52	500	Complies
11	2462 MHz	12.60	15.32	500	Complies

3TX

Configuration IEEE 802.11b / Chain 1 + Chain 2 + Chain 3

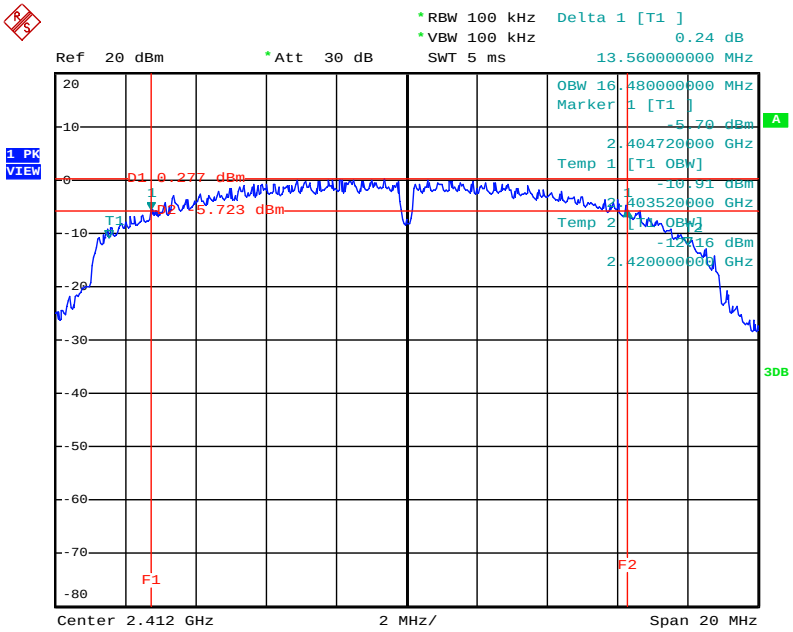
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	9.60	13.96	500	Complies
6	2437 MHz	10.56	15.40	500	Complies
11	2462 MHz	7.04	10.16	500	Complies

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 2462 MHz(1TX)



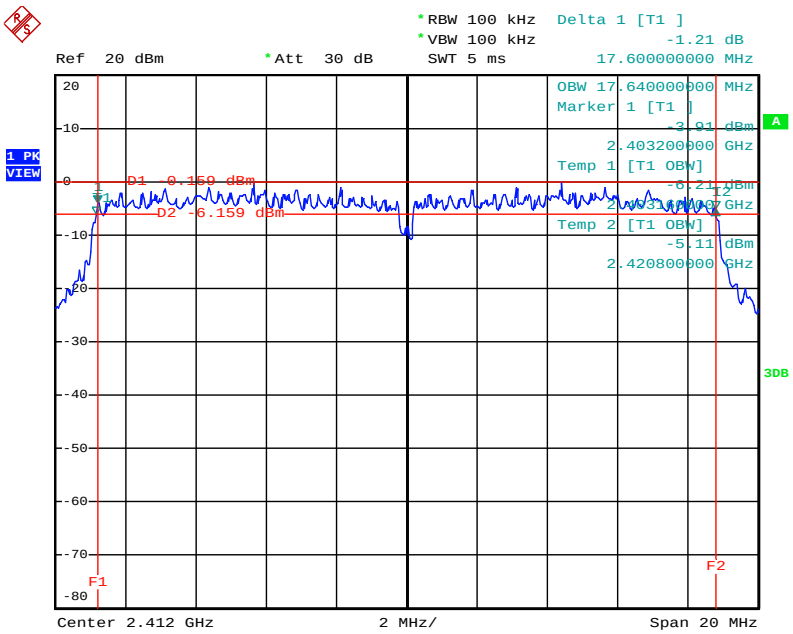
Date: 9.MAY.2012 12:20:06

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2/ 2412 MHz (2TX)



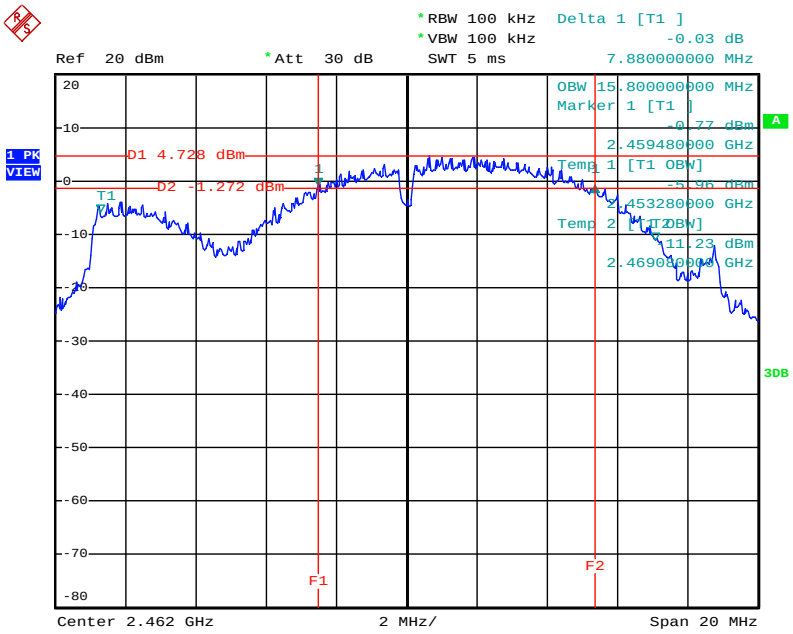
Date: 9.MAY.2012 12:12:43

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2/ 2412 MHz (2TX)



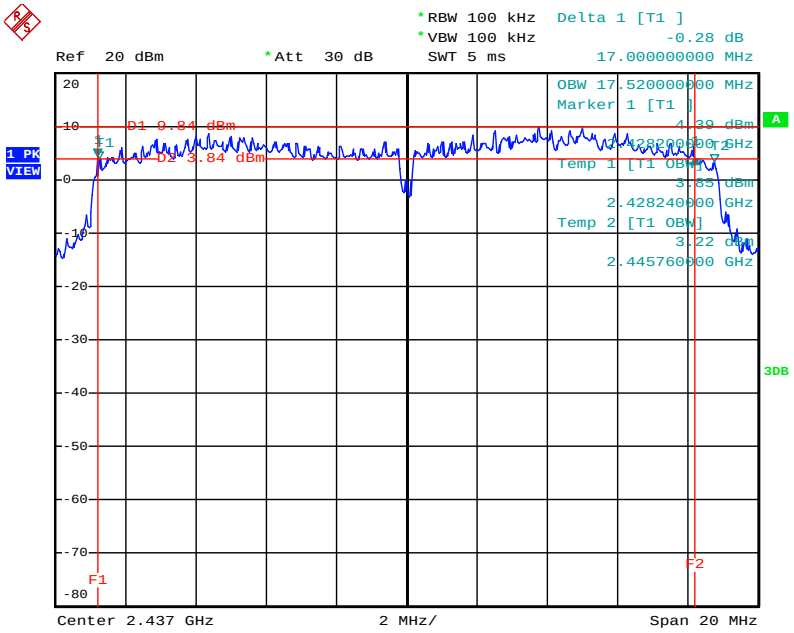
Date: 9.MAY.2012 12:09:25

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 + Chain 3 / 2462 MHz (3TX)



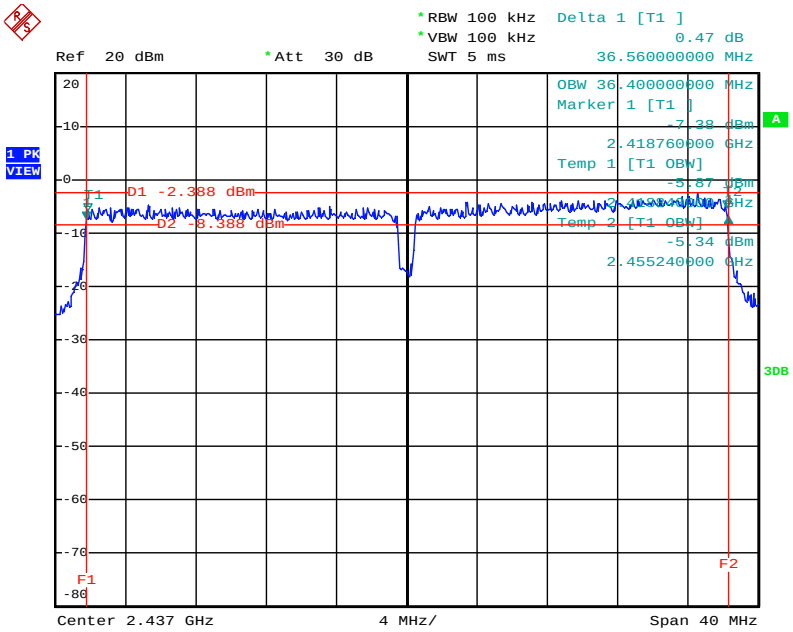
Date: 9.MAY.2012 12:02:42

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 + Chain 3 / 2437 MHz (3TX)



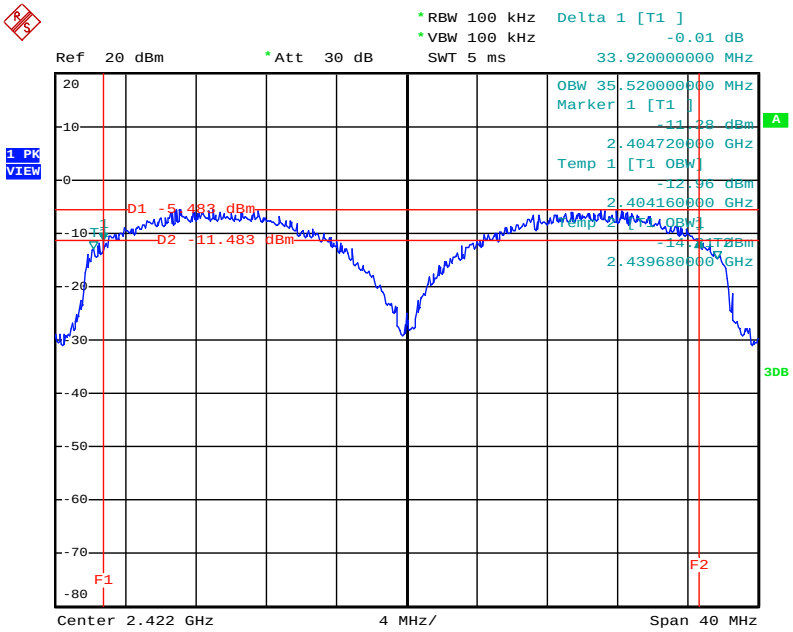
Date: 9.MAY.2012 12:07:02

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 2437 MHz (1TX)



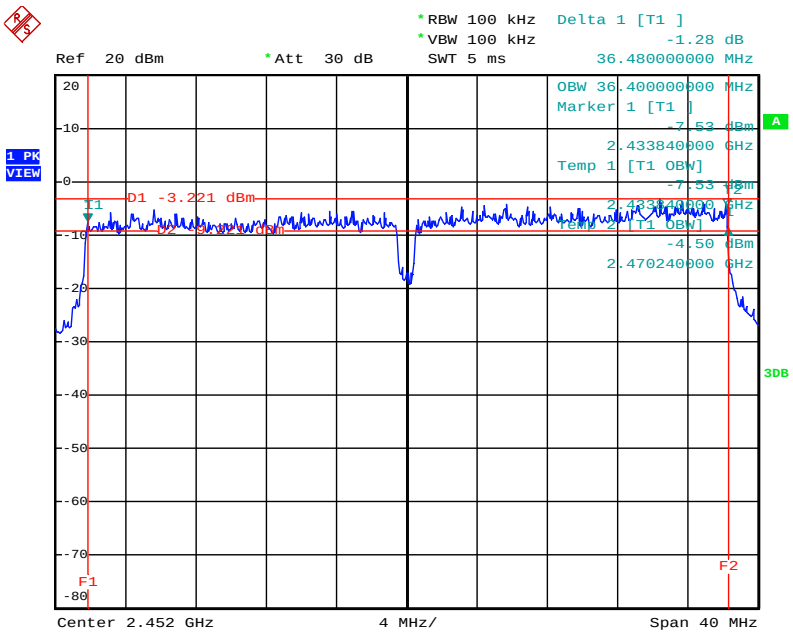
Date: 9.MAY.2012 12:21:00

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 / 2422 MHz (2TX)



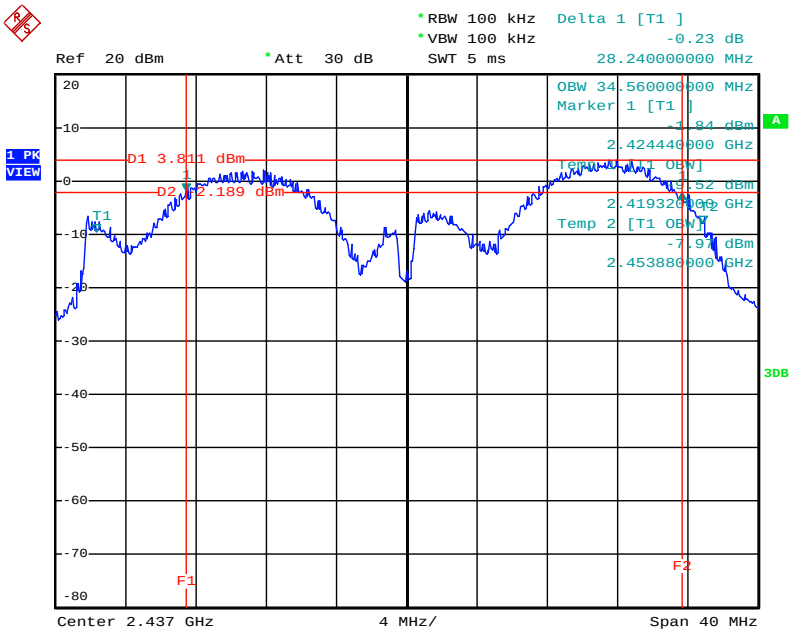
Date: 9.MAY.2012 12:12:09

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 / 2452 MHz (2TX)



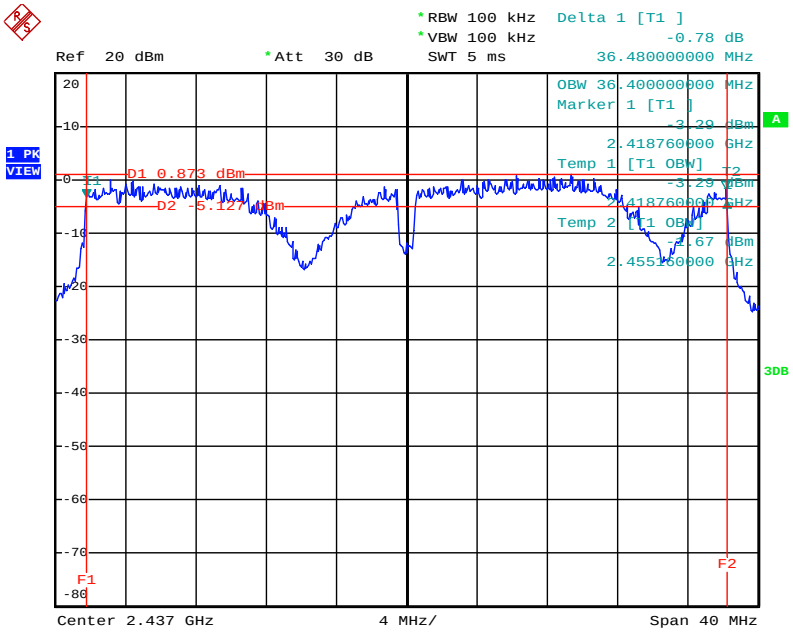
Date: 9.MAY.2012 12:10:54

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 + Chain 3 / 2437 MHz (3TX)



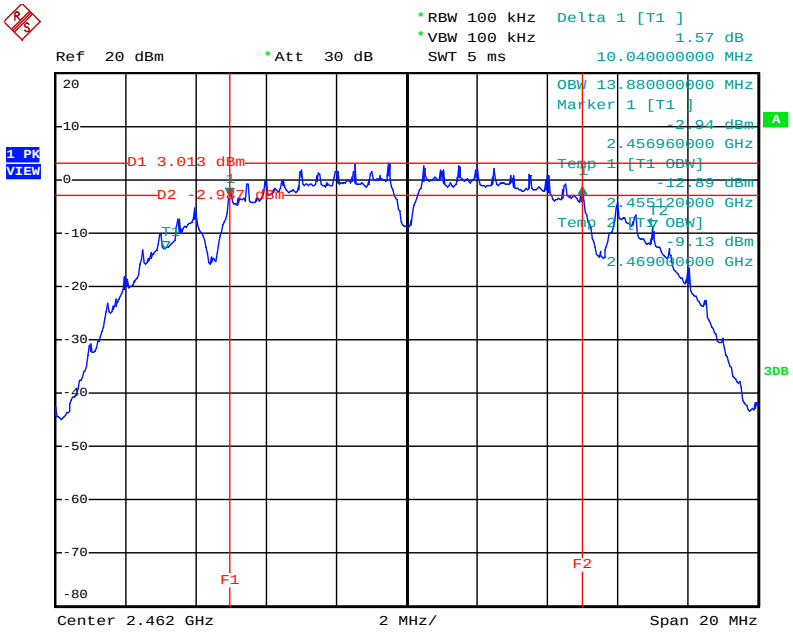
Date: 9.MAY.2012 12:03:37

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 + Chain 3 / 2437 MHz (3TX)



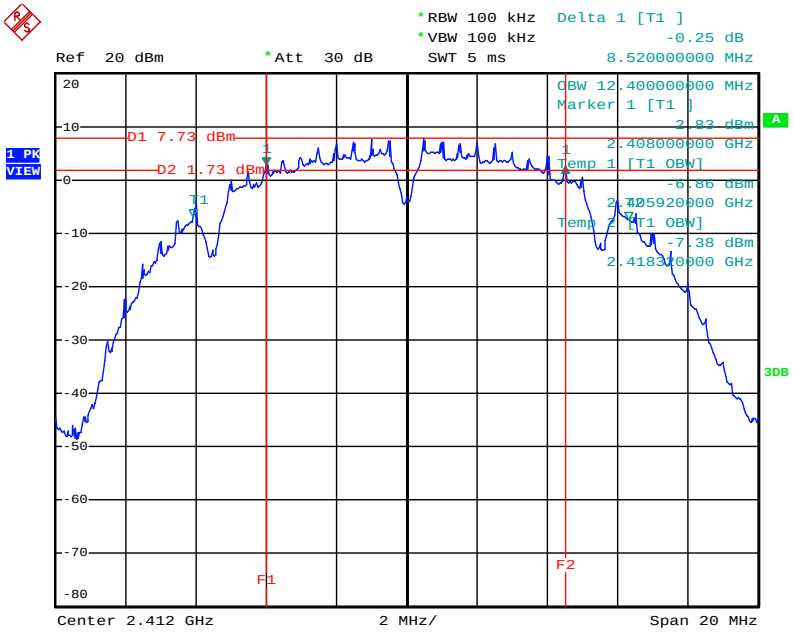
Date: 9.MAY.2012 12:05:05

6 dB Bandwidth Plot on Configuration IEEE 802.11b / Chain 1 / 2462 MHz (1TX)



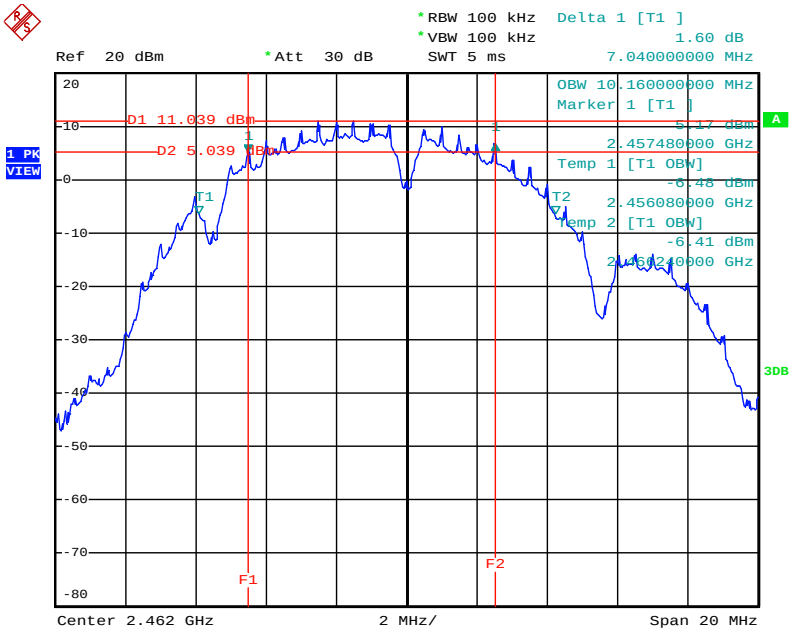
Date: 9.MAY.2012 12:15:41

6 dB Bandwidth Plot on Configuration IEEE 802.11b / Chain 1 + Chain 2 / 2412 MHz (2TX)



Date: 9.MAY.2012 12:14:16

6 dB Bandwidth Plot on Configuration IEEE 802.11b / Chain 1 + Chain 2 + Chain 3 / 2462 MHz (3TX)



Date: 9.MAY.2012 12:00:50

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n
Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi)		

1TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.84	17.72	500	Complies
6	2437 MHz	17.80	17.72	500	Complies
11	2462 MHz	17.84	17.72	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.64	36.40	500	Complies
6	2437 MHz	36.56	36.40	500	Complies
9	2452 MHz	36.56	36.32	500	Complies

2TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	13.80	16.44	500	Complies
6	2437 MHz	17.84	17.92	500	Complies
11	2462 MHz	13.16	16.48	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	33.20	35.44	500	Complies
6	2437 MHz	33.60	35.44	500	Complies
9	2452 MHz	36.56	36.56	500	Complies

Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.68	17.68	500	Complies
6	2437 MHz	17.68	17.64	500	Complies
11	2462 MHz	17.68	17.64	500	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.64	36.40	500	Complies
6	2437 MHz	36.56	36.40	500	Complies
9	2452 MHz	36.48	36.32	500	Complies

3TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.36	17.48	500	Complies
6	2437 MHz	16.56	17.28	500	Complies
11	2462 MHz	16.32	17.32	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	28.64	34.80	500	Complies
6	2437 MHz	27.92	34.48	500	Complies
9	2452 MHz	36.48	36.64	500	Complies

Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.64	17.72	500	Complies
6	2437 MHz	12.00	17.64	500	Complies
11	2462 MHz	17.60	17.68	500	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.48	36.32	500	Complies
6	2437 MHz	36.48	36.40	500	Complies
9	2452 MHz	31.12	36.24	500	Complies

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b/g
Test Mode	Mode 3 (Ant. 3 Panel antenna / 14dBi)		

1TX

Configuration IEEE 802.11b / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	10.16	13.92	500	Complies
6	2437 MHz	10.08	13.96	500	Complies
11	2462 MHz	10.08	13.88	500	Complies

2TX

Configuration IEEE 802.11b / Chain 1 + Chain 2

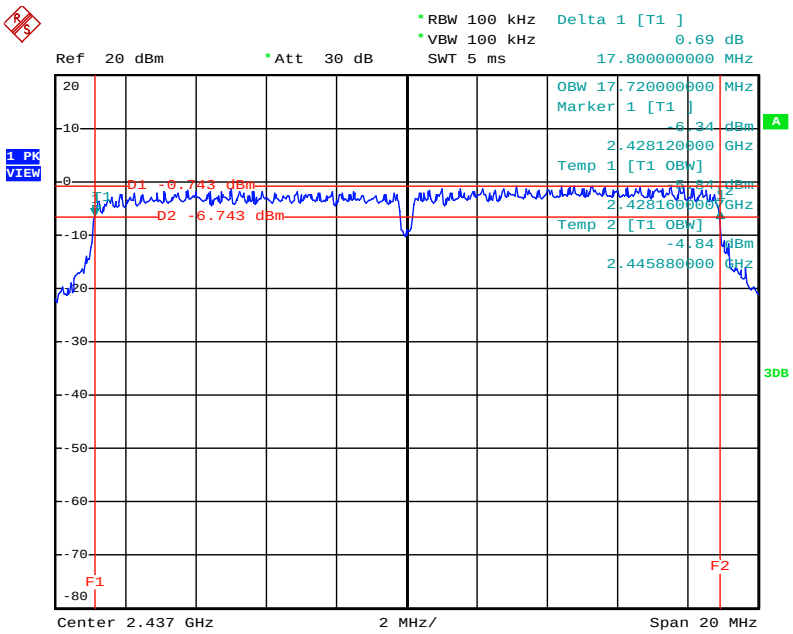
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	12.56	15.40	500	Complies
6	2437 MHz	9.04	12.60	500	Complies
11	2462 MHz	12.64	15.40	500	Complies

3TX

Configuration IEEE 802.11b / Chain 1 + Chain 2 + Chain 3

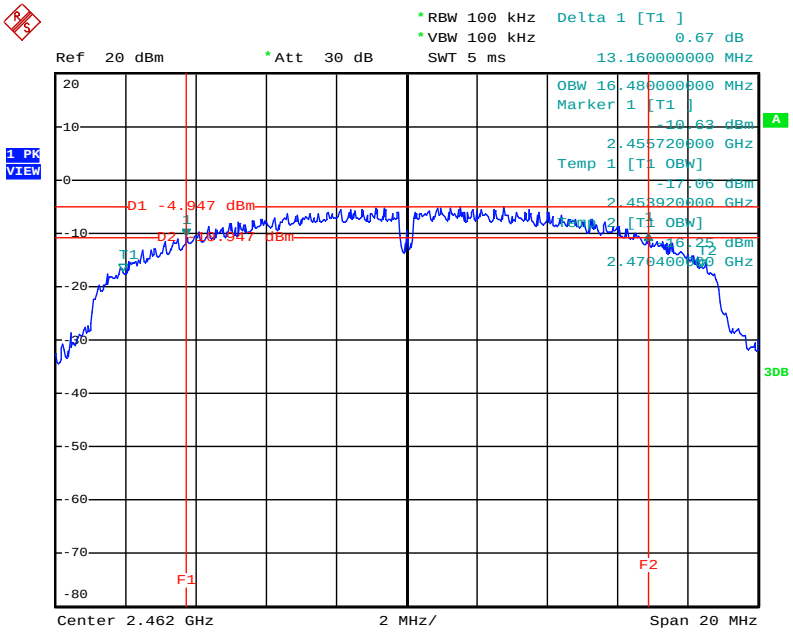
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	9.56	14.00	500	Complies
6	2437 MHz	6.60	10.08	500	Complies
11	2462 MHz	10.04	13.28	500	Complies

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 2437 MHz (1TX)



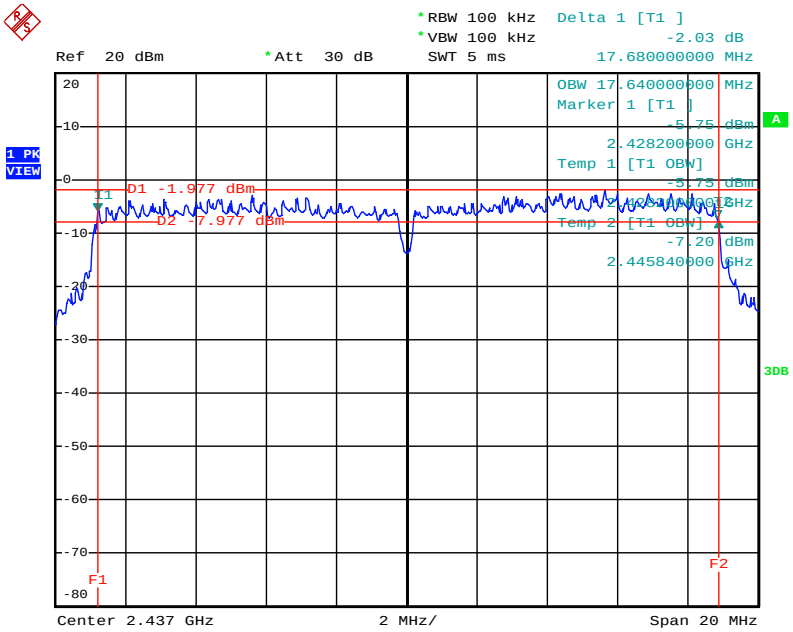
Date: 9.MAY.2012 14:14:12

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 / 2462 MHz (2TX)



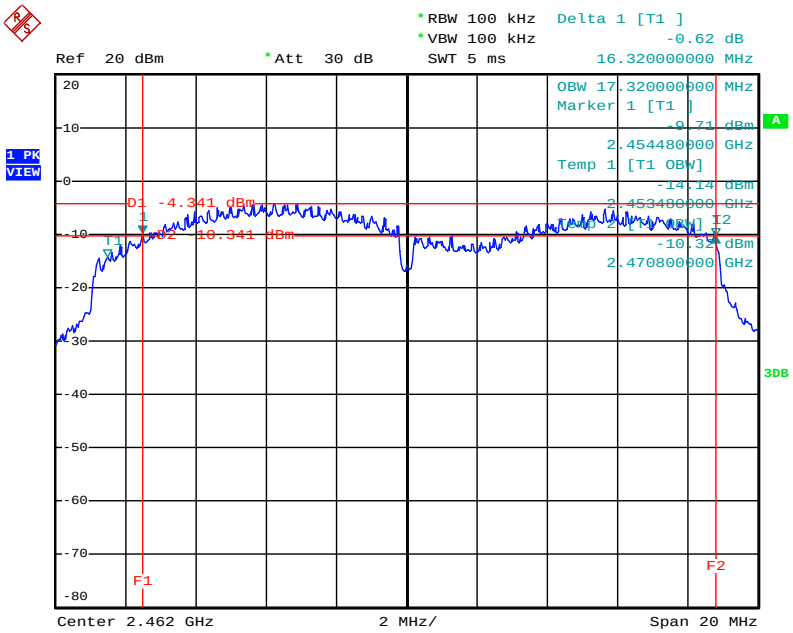
Date: 9.MAY.2012 14:19:45

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2/ 2437 MHz (2TX)



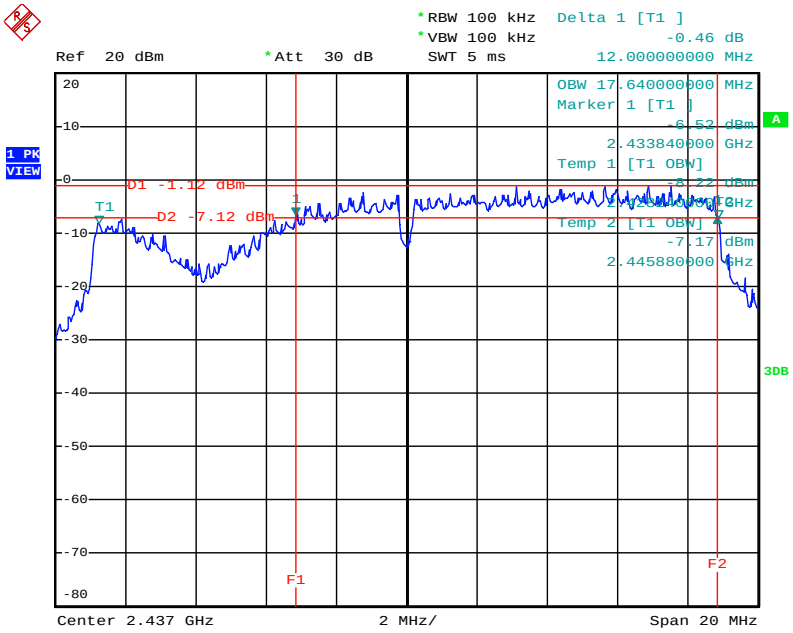
Date: 9.MAY.2012 14:23:24

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 + Chain 3 / 2462 MHz (3TX)



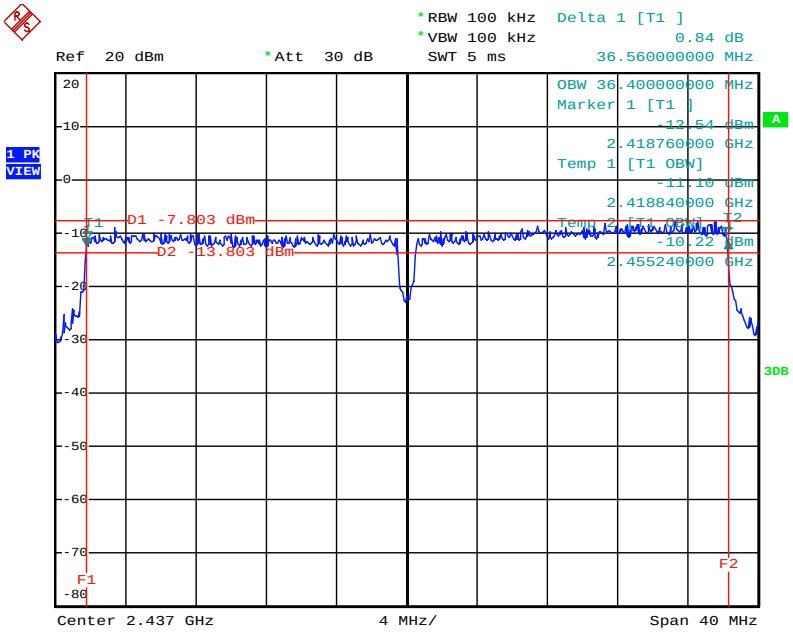
Date: 9.MAY.2012 14:29:50

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 + Chain 3 / 2437 MHz (3TX)



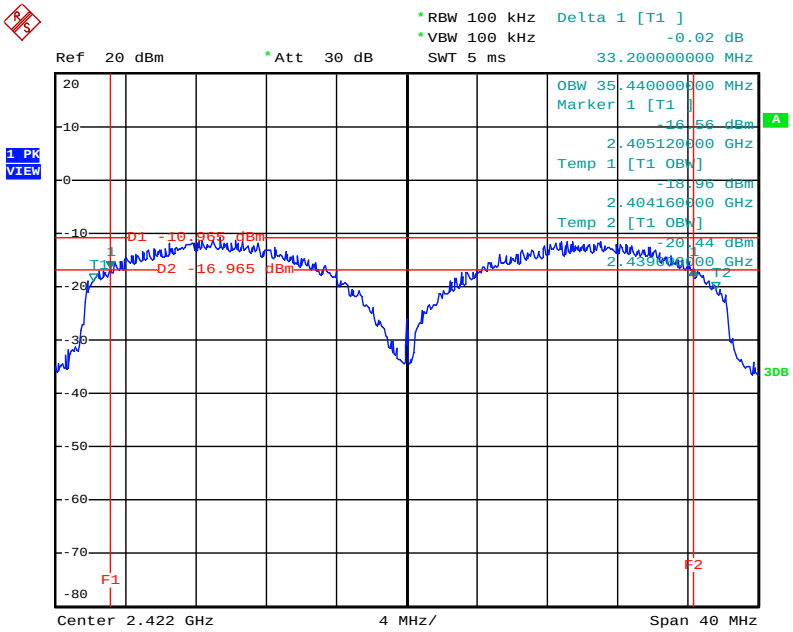
Date: 9.MAY.2012 14:25:09

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 2437 MHz (1TX)



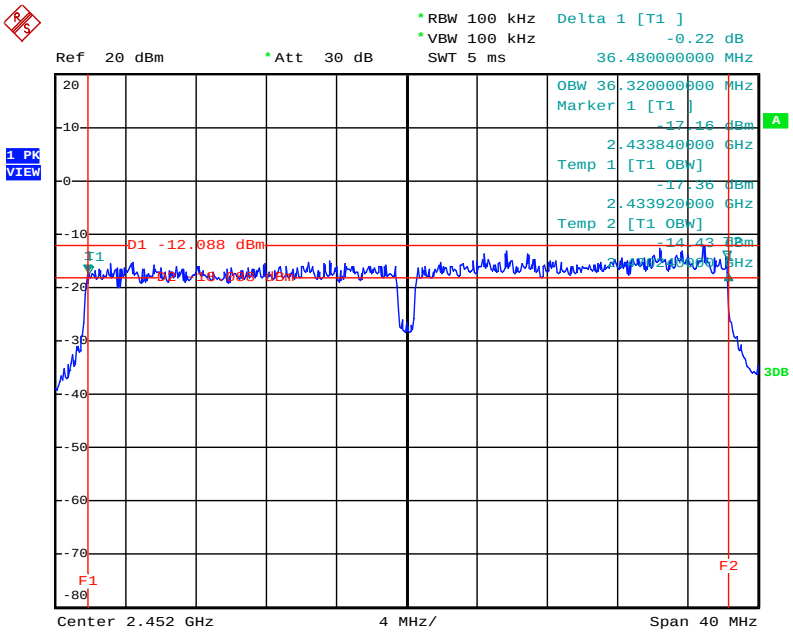
Date: 9.MAY.2012 14:16:02

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 / 2422 MHz (2TX)



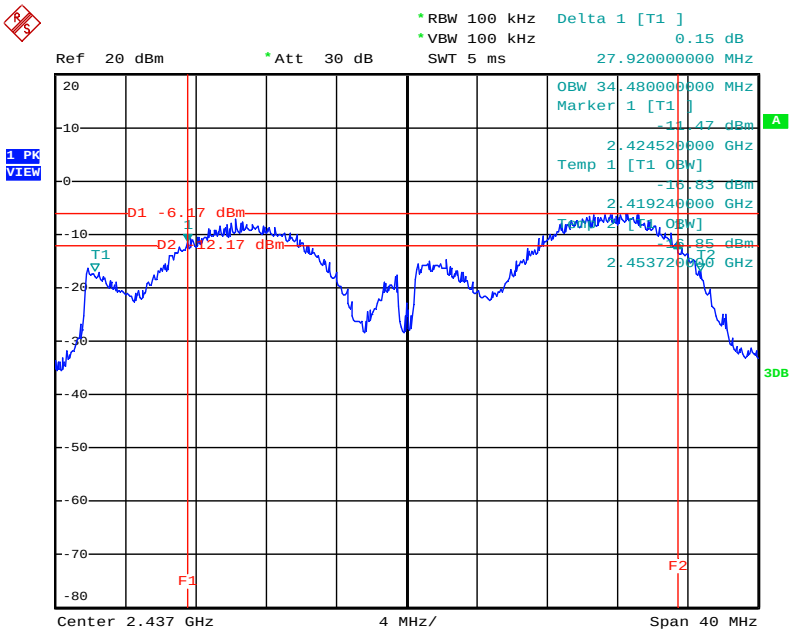
Date: 9.MAY.2012 14:20:18

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 / 2452 MHz (2TX)



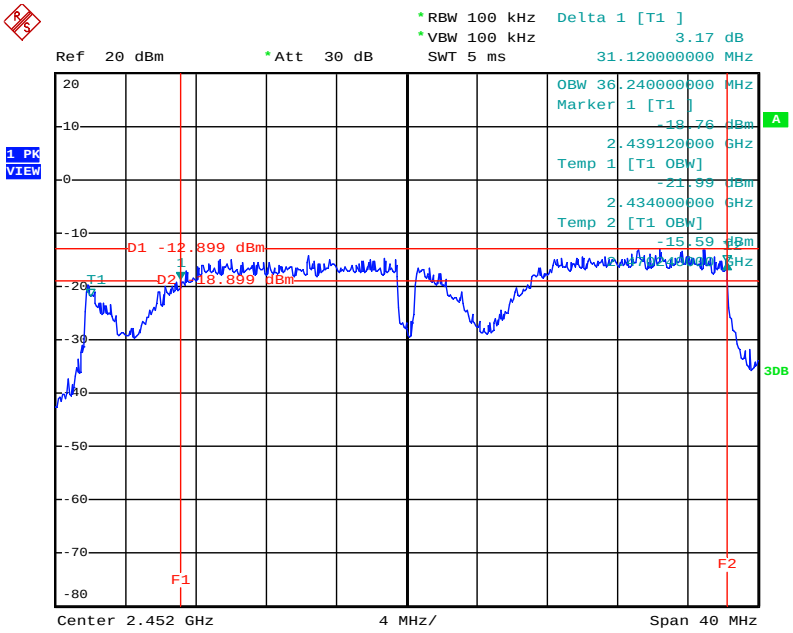
Date: 9.MAY.2012 14:21:42

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 + Chain 3 / 2437 MHz (3TX)



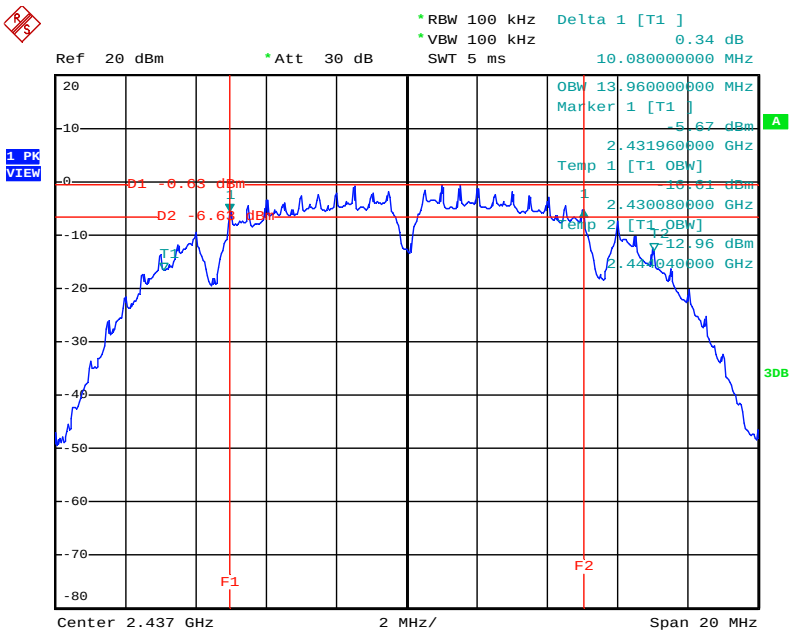
Date: 9.MAY.2012 14:28:05

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 + Chain 3 / 2452 MHz (3TX)



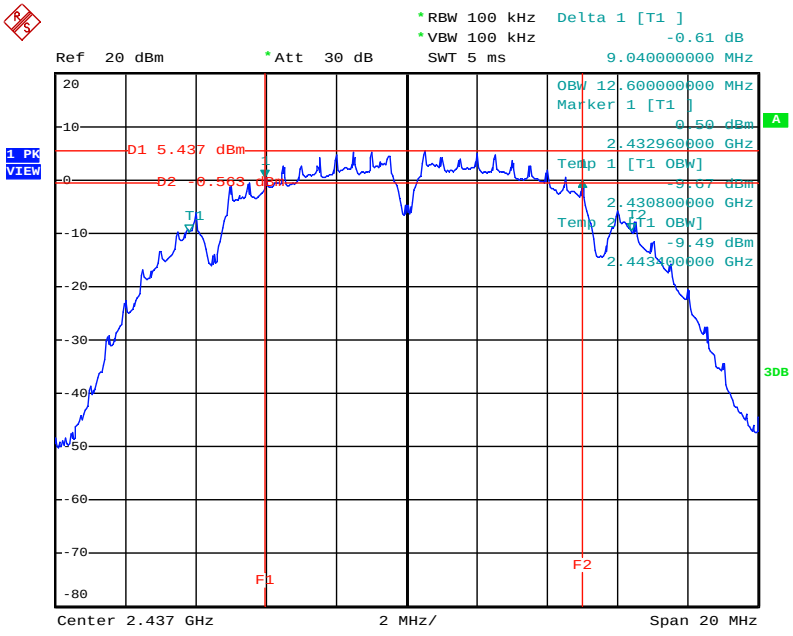
Date: 9.MAY.2012 14:27:02

6 dB Bandwidth Plot on Configuration IEEE 802.11b / Chain 1 / 2437 MHz (1TX)



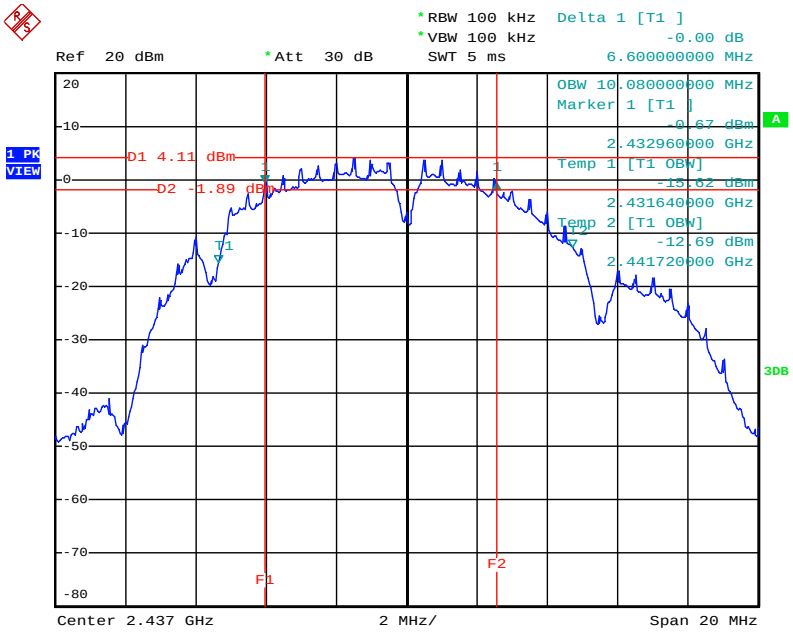
Date: 9.MAY.2012 14:11:45

6 dB Bandwidth Plot on Configuration IEEE 802.11b / Chain 1 + Chain 2 / 2437 MHz (2TX)



Date: 9.MAY.2012 14:17:40

6 dB Bandwidth Plot on Configuration IEEE 802.11b / Chain 1 + Chain 2 + Chain 3 / 2437 MHz (3TX)



Date: 9.MAY.2012 14:31:00

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n
Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi)		

1TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.80	17.72	500	Complies
6	2437 MHz	17.72	17.72	500	Complies
11	2462 MHz	17.76	17.68	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.64	36.40	500	Complies
6	2437 MHz	36.56	36.40	500	Complies
9	2452 MHz	36.56	36.32	500	Complies

2TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	13.52	16.36	500	Complies
6	2437 MHz	17.84	17.92	500	Complies
11	2462 MHz	13.76	16.48	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	34.48	35.52	500	Complies
6	2437 MHz	36.56	36.56	500	Complies
9	2452 MHz	32.96	35.36	500	Complies

Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.60	17.64	500	Complies
6	2437 MHz	17.64	17.64	500	Complies
11	2462 MHz	17.68	17.64	500	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.56	36.40	500	Complies
6	2437 MHz	36.56	36.40	500	Complies
9	2452 MHz	36.56	36.40	500	Complies

3TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.80	18.04	500	Complies
6	2437 MHz	8.28	16.48	500	Complies
11	2462 MHz	17.76	18.04	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.64	36.64	500	Complies
6	2437 MHz	33.92	36.16	500	Complies
9	2452 MHz	36.48	36.56	500	Complies

Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.24	17.64	500	Complies
6	2437 MHz	17.72	17.76	500	Complies
11	2462 MHz	17.36	17.68	500	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.48	36.40	500	Complies
6	2437 MHz	31.28	36.24	500	Complies
9	2452 MHz	36.56	36.40	500	Complies

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b/g
Test Mode	Mode 4 (Ant. 4 Yagi antenna / 13.5dBi)		

1TX

Configuration IEEE 802.11b / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	10.08	13.96	500	Complies
6	2437 MHz	10.08	13.88	500	Complies
11	2462 MHz	10.08	13.88	500	Complies

2TX

Configuration IEEE 802.11b / Chain 1 + Chain 2

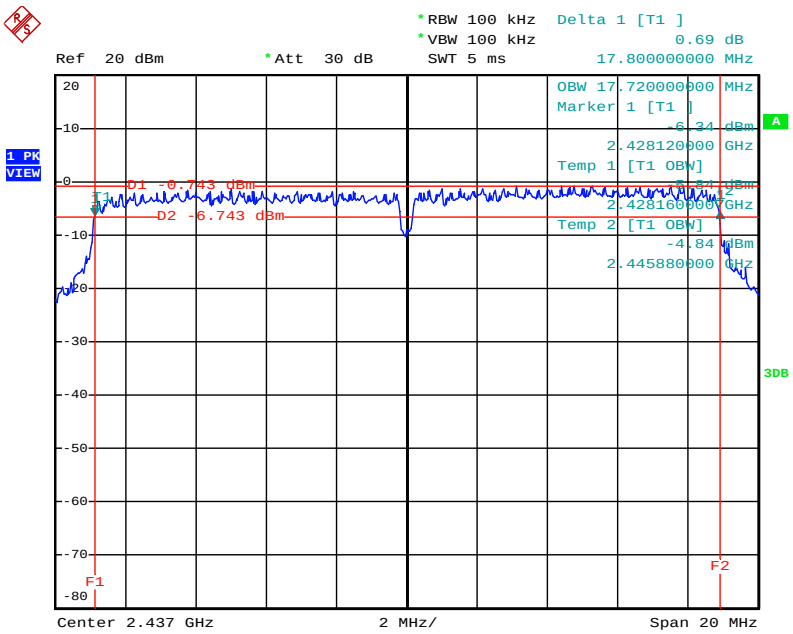
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	8.52	12.44	500	Complies
6	2437 MHz	8.56	12.60	500	Complies
11	2462 MHz	9.04	12.48	500	Complies

3TX

Configuration IEEE 802.11b / Chain 1 + Chain 2 + Chain 3

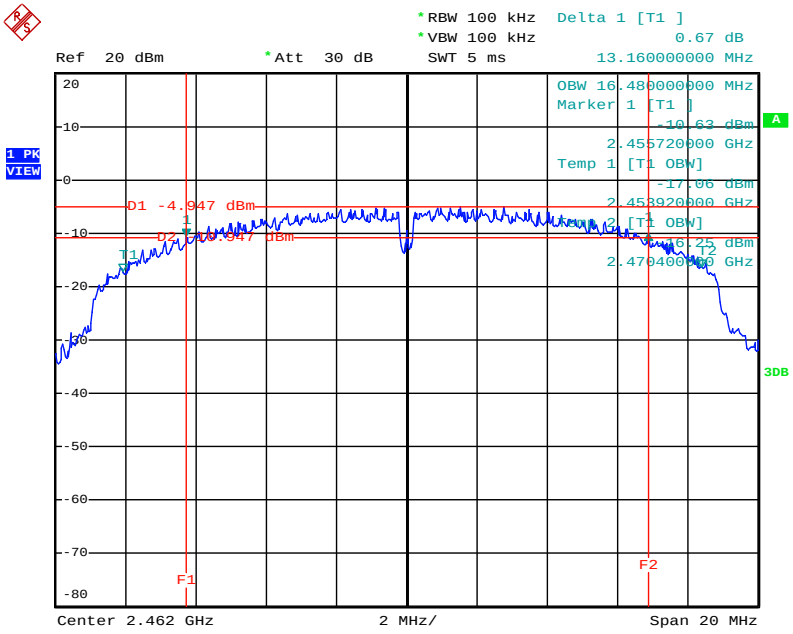
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	6.52	9.76	500	Complies
6	2437 MHz	10.60	15.48	500	Complies
11	2462 MHz	11.08	15.44	500	Complies

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 2437 MHz (1TX)



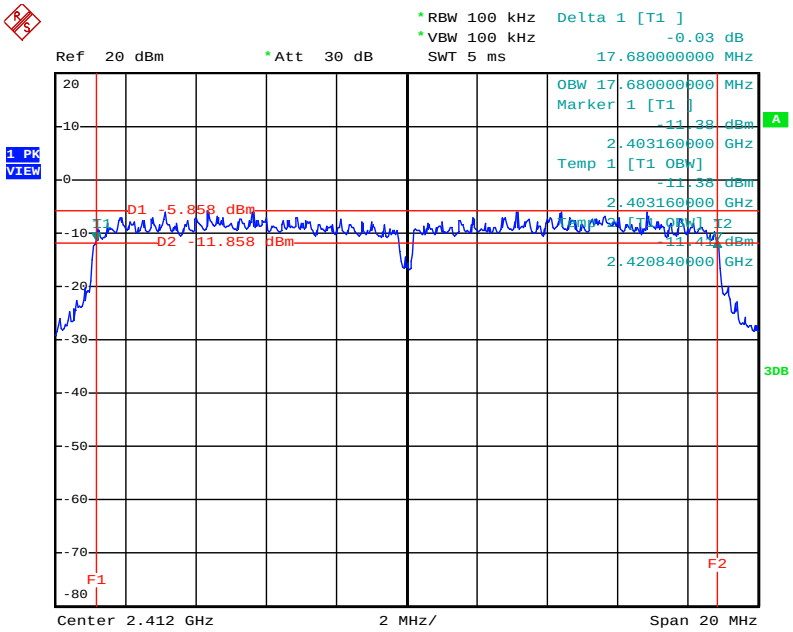
Date: 9.MAY.2012 14:14:12

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 / 2462 MHz (2TX)



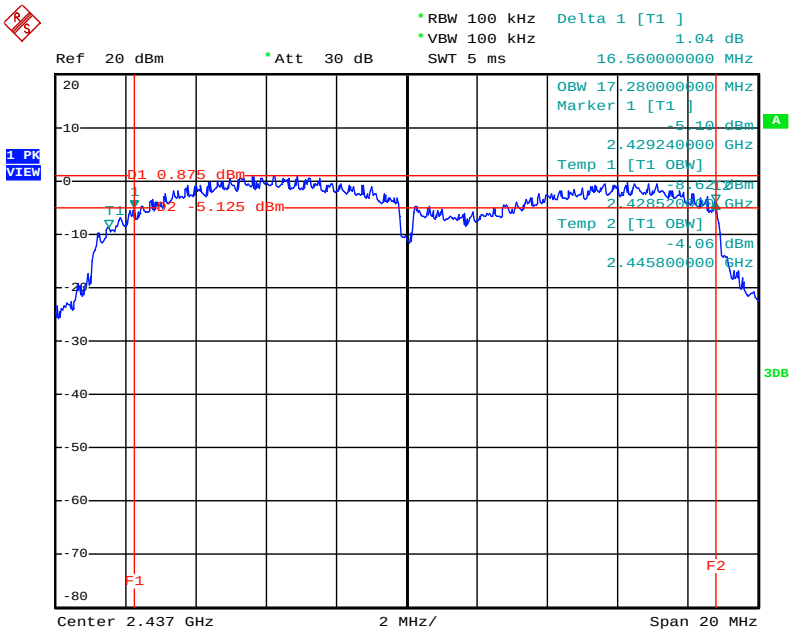
Date: 9.MAY.2012 14:19:45

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2/ 2412 MHz (2TX)



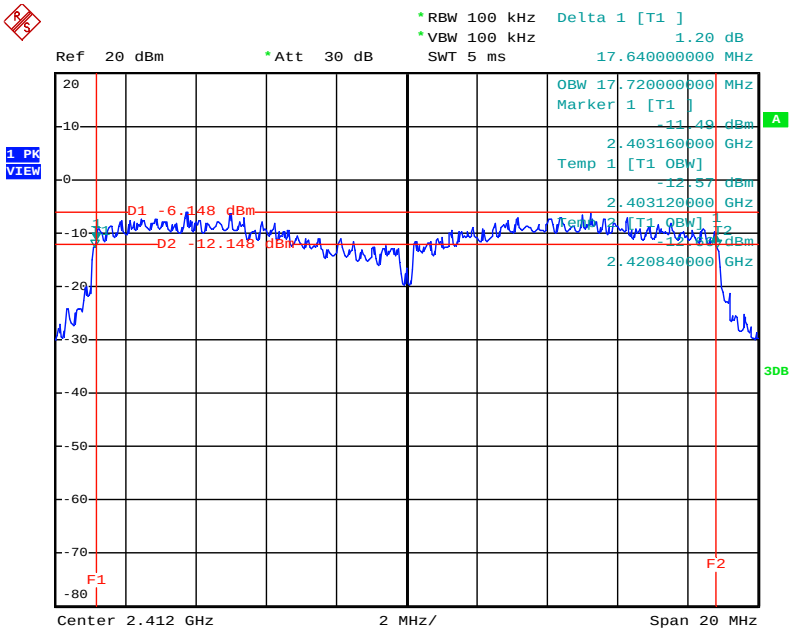
Date: 9.MAY.2012 14:23:03

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 + Chain 3 / 2437 MHz (3TX)



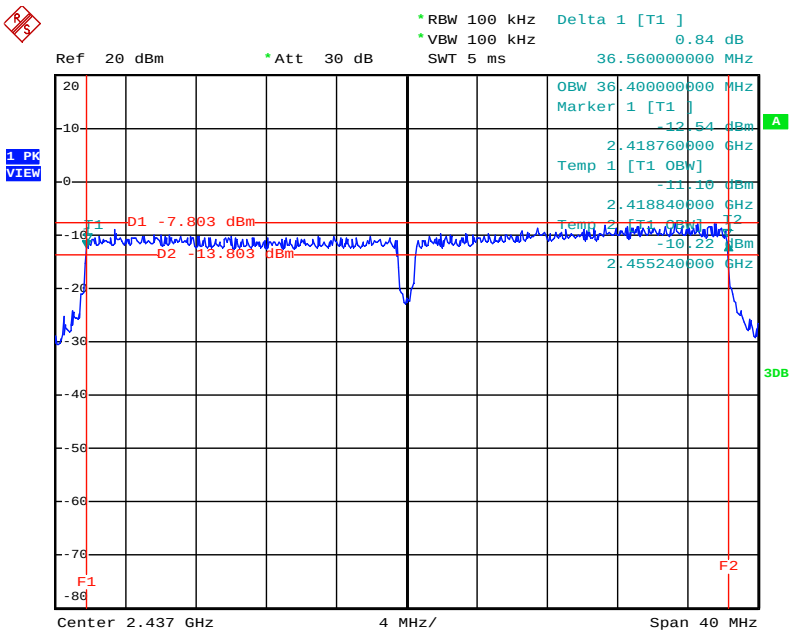
Date: 9.MAY.2012 14:29:25

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 + Chain 3 / 2412 MHz (3TX)



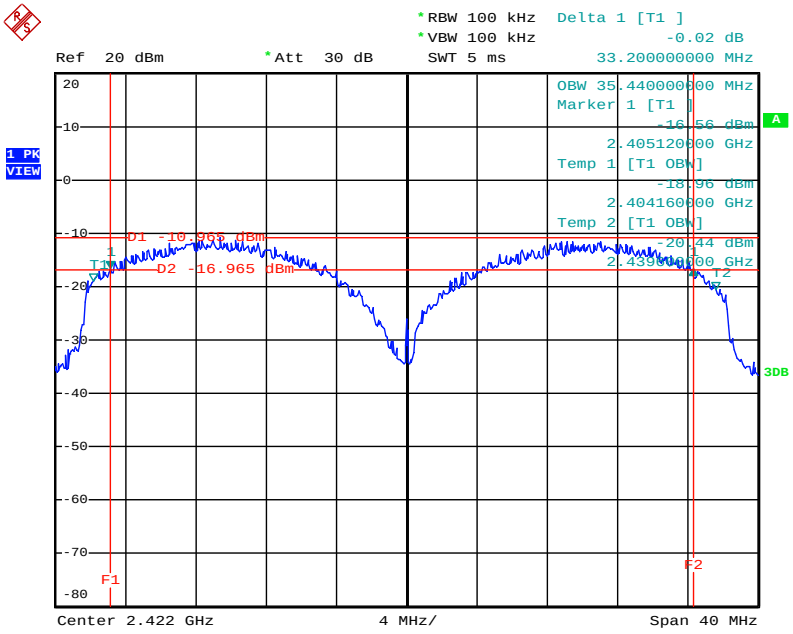
Date: 9.MAY.2012 14:24:29

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 2437 MHz (1TX)



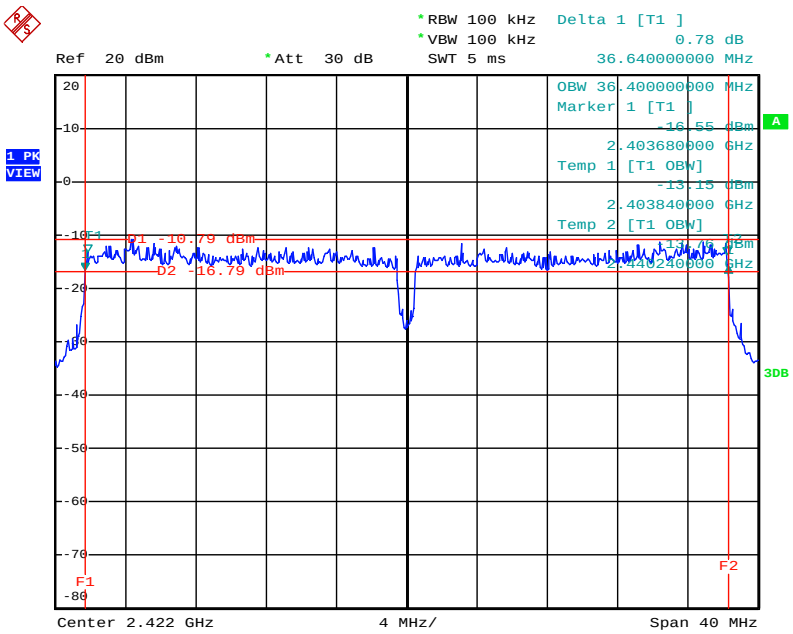
Date: 9.MAY.2012 14:16:02

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 / 2422 MHz (2TX)



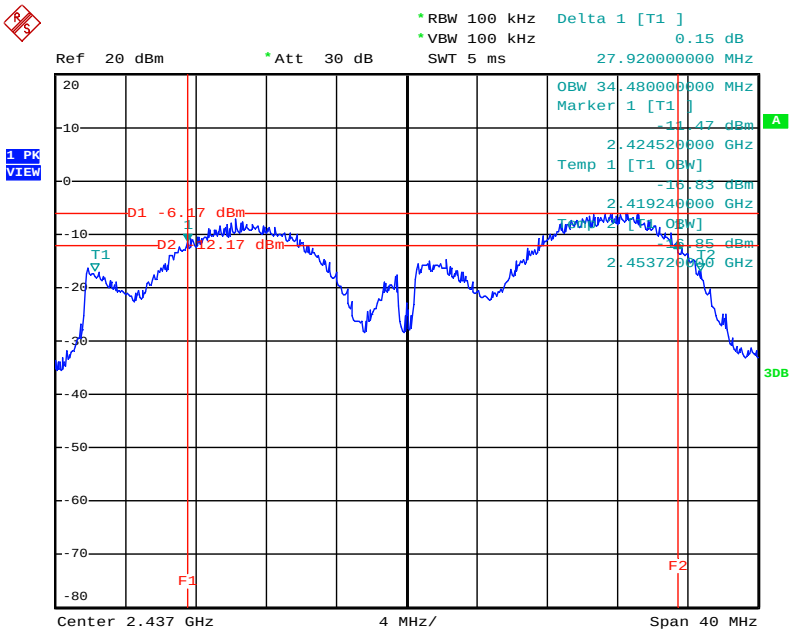
Date: 9.MAY.2012 14:20:18

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 / 2422 MHz (2TX)



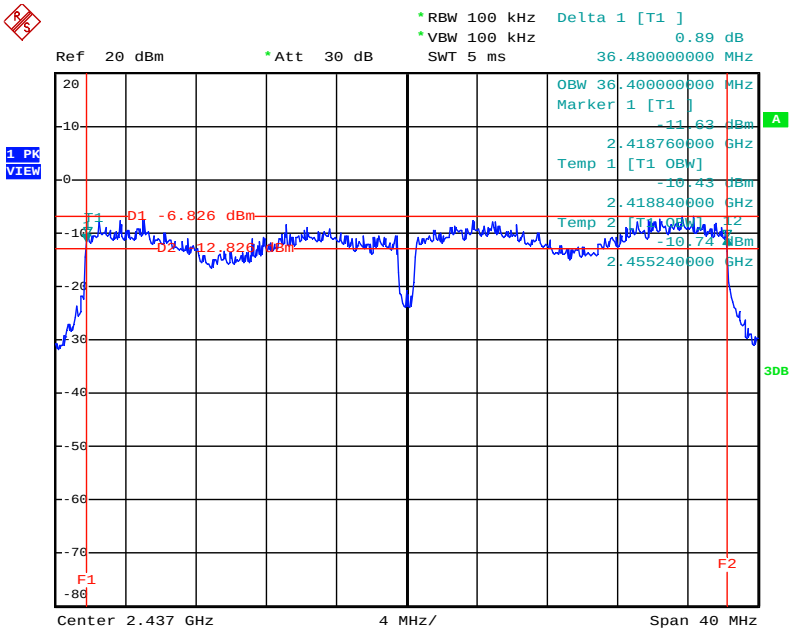
Date: 9.MAY.2012 14:22:37

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 + Chain 3 / 2437 MHz (3TX)



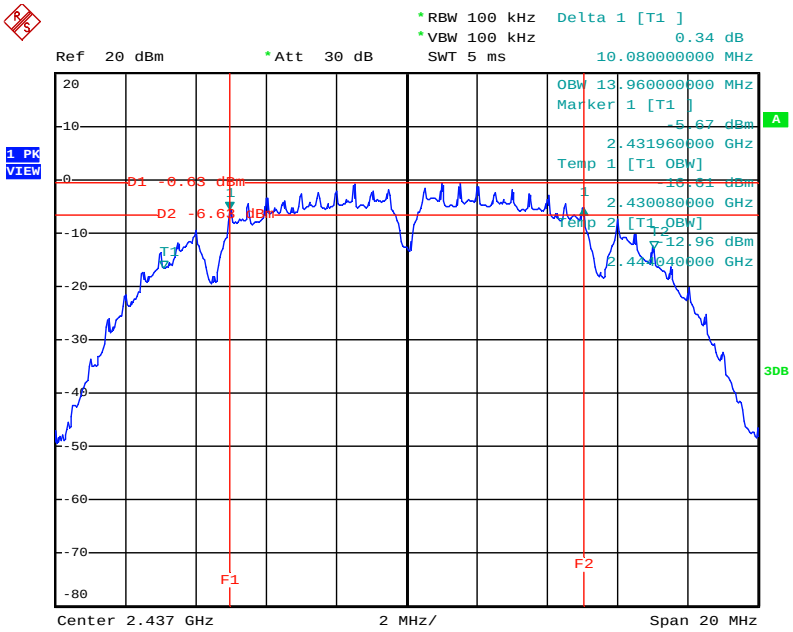
Date: 9.MAY.2012 14:28:05

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 + Chain 3 / 2437 MHz (3TX)



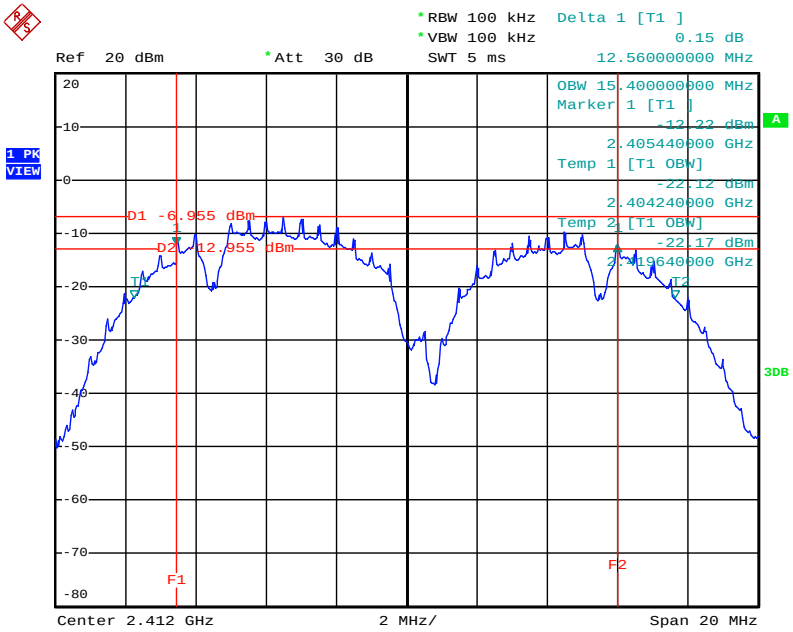
Date: 9.MAY.2012 14:26:30

6 dB Bandwidth Plot on Configuration IEEE 802.11b / Chain 1 / 2437 MHz (1TX)



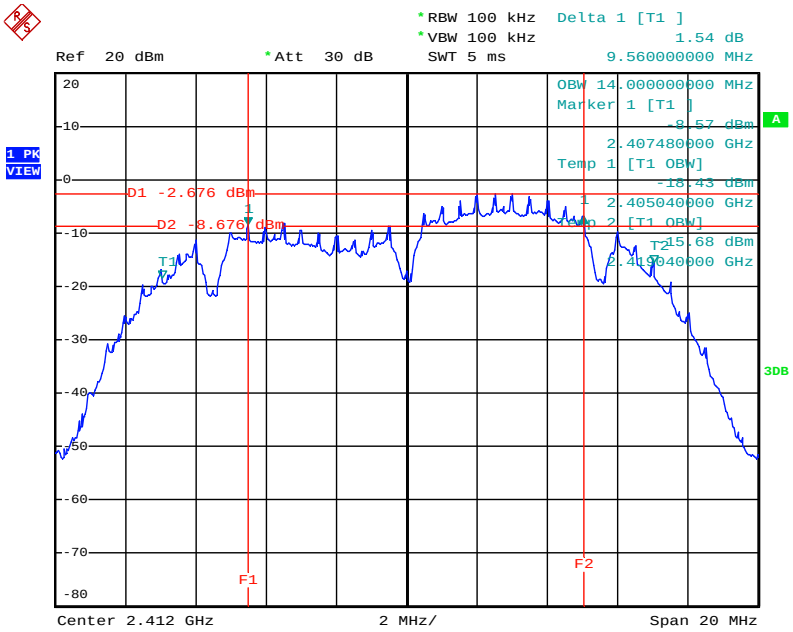
Date: 9.MAY.2012 14:11:45

6 dB Bandwidth Plot on Configuration IEEE 802.11b / Chain 1 + Chain 2 / 2412 MHz (2TX)



Date: 9.MAY.2012 14:17:02

6 dB Bandwidth Plot on Configuration IEEE 802.11b / Chain 1 + Chain 2 + Chain 3 / 2412 MHz (3TX)



Date: 9.MAY.2012 14:30:39

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n
Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi)		

1TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.80	17.68	500	Complies
6	2437 MHz	17.82	17.68	500	Complies
11	2462 MHz	17.82	17.65	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.64	36.35	500	Complies
6	2437 MHz	36.64	36.29	500	Complies
9	2452 MHz	36.57	36.29	500	Complies

2TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.84	17.88	500	Complies
6	2437 MHz	17.80	17.88	500	Complies
11	2462 MHz	17.76	17.84	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.64	36.56	500	Complies
6	2437 MHz	36.64	36.56	500	Complies
9	2452 MHz	36.56	36.48	500	Complies

Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.60	17.68	500	Complies
6	2437 MHz	17.64	17.64	500	Complies
11	2462 MHz	17.68	17.68	500	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.56	36.40	500	Complies
6	2437 MHz	36.56	36.40	500	Complies
9	2452 MHz	36.48	36.32	500	Complies

3TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.72	18.04	500	Complies
6	2437 MHz	17.72	17.96	500	Complies
11	2462 MHz	17.68	17.92	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.56	36.56	500	Complies
6	2437 MHz	36.40	36.48	500	Complies
9	2452 MHz	24.32	36.48	500	Complies

Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.60	17.64	500	Complies
6	2437 MHz	17.60	17.64	500	Complies
11	2462 MHz	17.68	17.68	500	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.48	36.32	500	Complies
6	2437 MHz	36.16	36.16	500	Complies
9	2452 MHz	36.40	36.24	500	Complies

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b/g
Test Mode	Mode 5 (Ant. 5 Facade antenna / 2.5dBi)		

1TX

Configuration IEEE 802.11b / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	10.10	13.86	500	Complies
6	2437 MHz	10.13	14.50	500	Complies
11	2462 MHz	10.13	13.74	500	Complies

2TX

Configuration IEEE 802.11b / Chain 1 + Chain 2

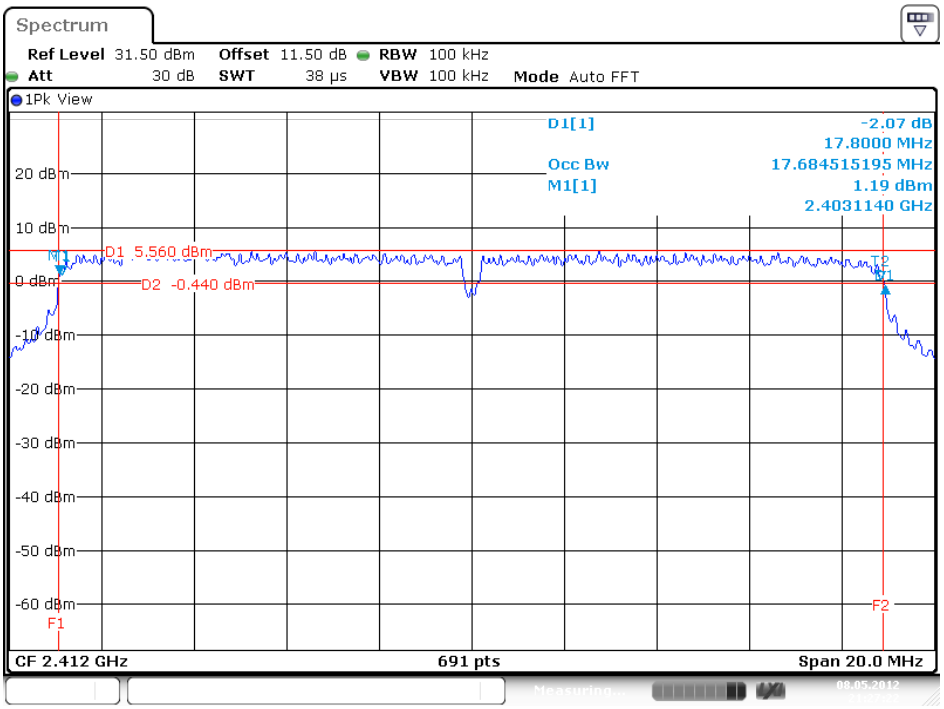
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	8.56	11.88	500	Complies
6	2437 MHz	9.04	11.76	500	Complies
11	2462 MHz	8.08	11.68	500	Complies

3TX

Configuration IEEE 802.11b / Chain 1 + Chain 2 + Chain 3

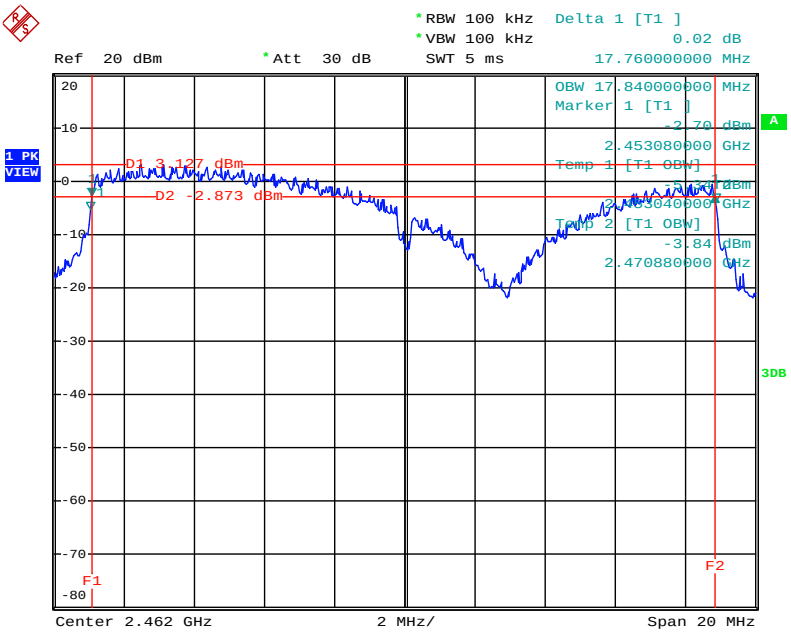
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	11.08	13.92	500	Complies
6	2437 MHz	10.00	13.68	500	Complies
11	2462 MHz	10.08	13.60	500	Complies

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 2412 MHz (1TX)



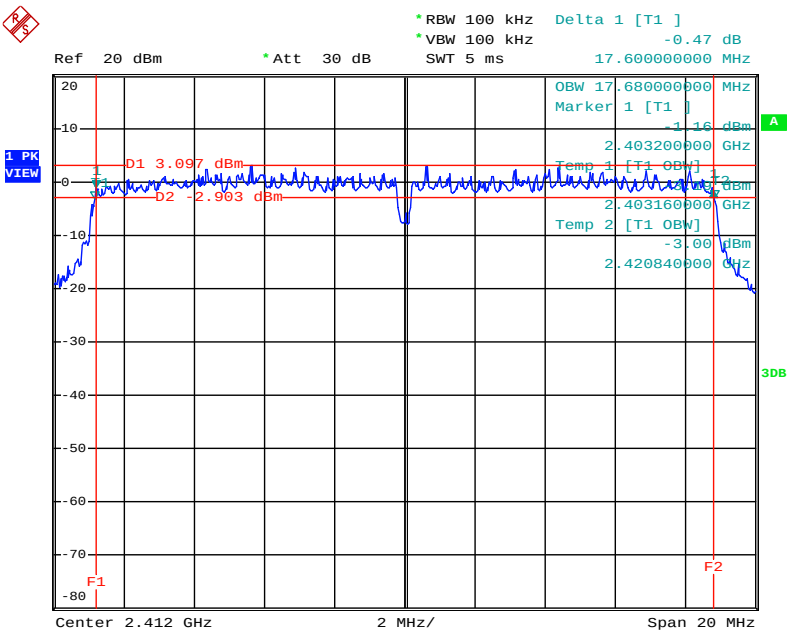
Date: 8.MAY.2012 21:27:22

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 / 2462 MHz (2TX)



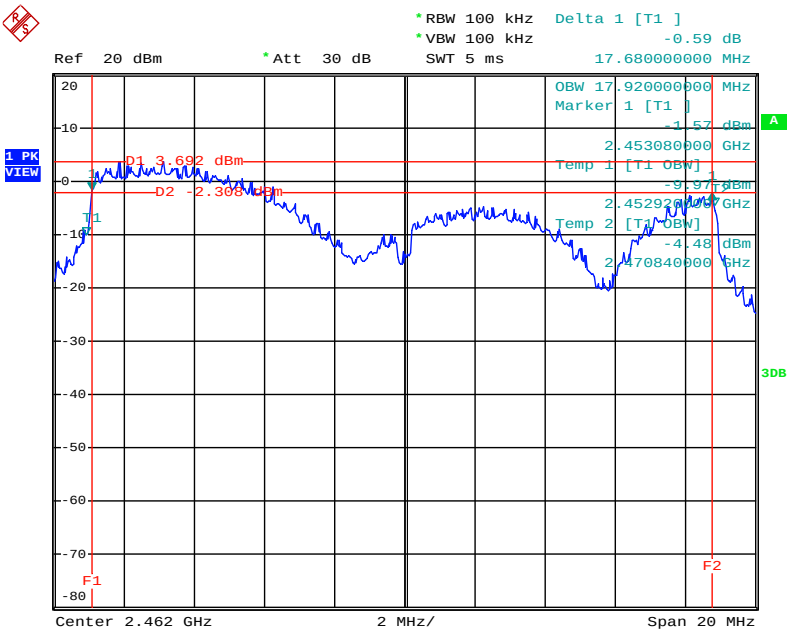
Date: 8.MAY.2012 20:31:46

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2/ 2412 MHz (2TX)



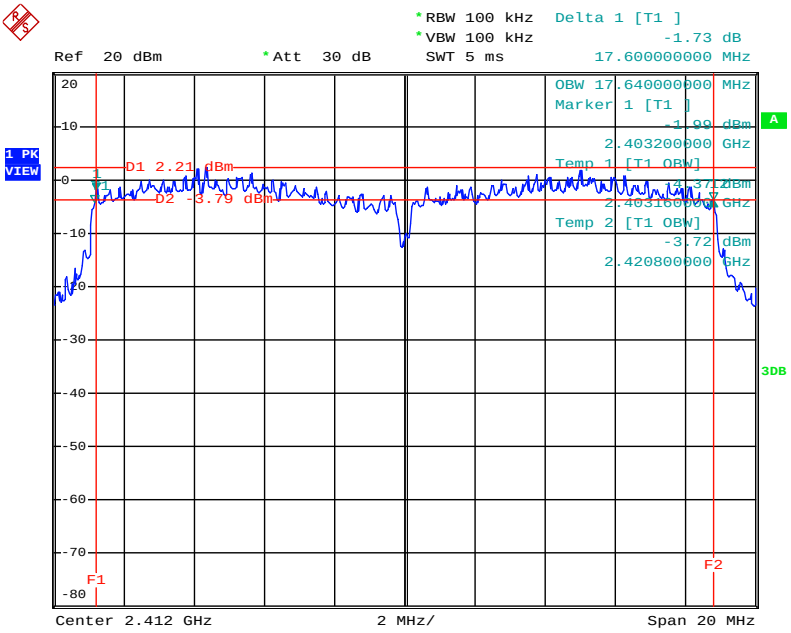
Date: 8.MAY.2012 20:41:00

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 + Chain 3 / 2462 MHz (3TX)



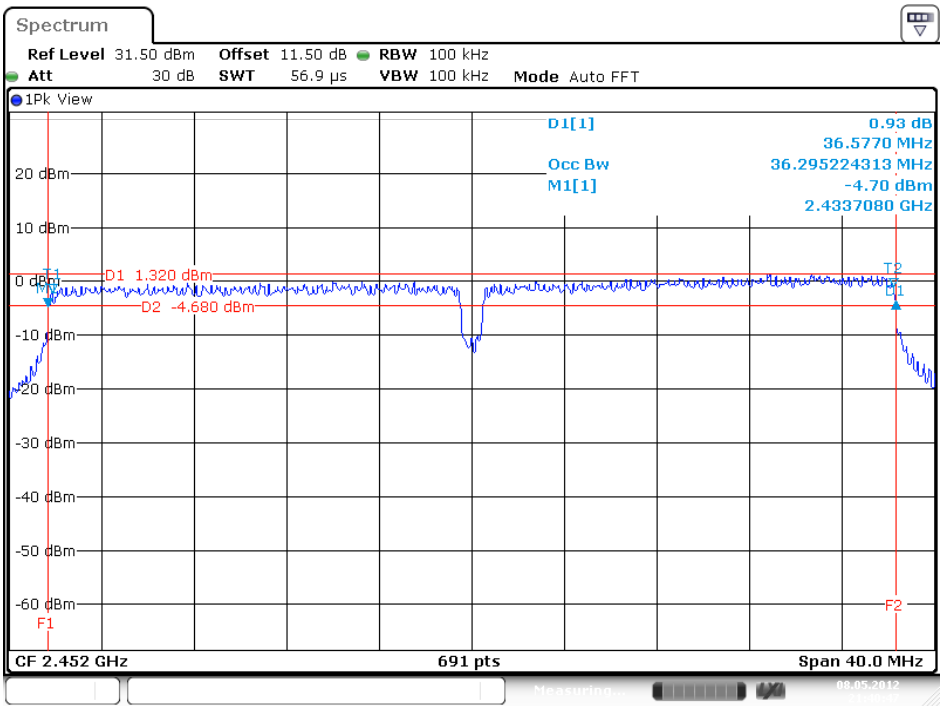
Date: 8.MAY.2012 21:01:55

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 + Chain 3 / 2412 MHz (3TX)



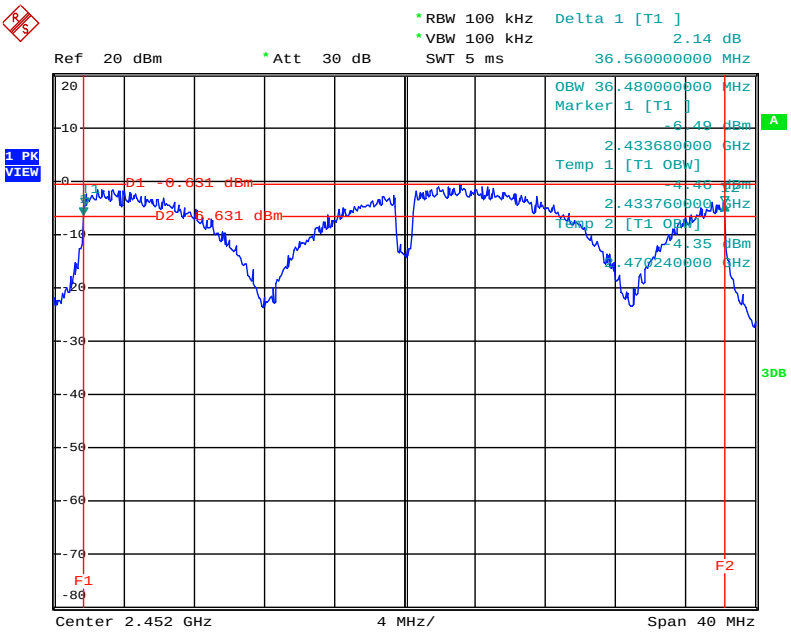
Date: 8.MAY.2012 21:21:38

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 2452 MHz (1TX)



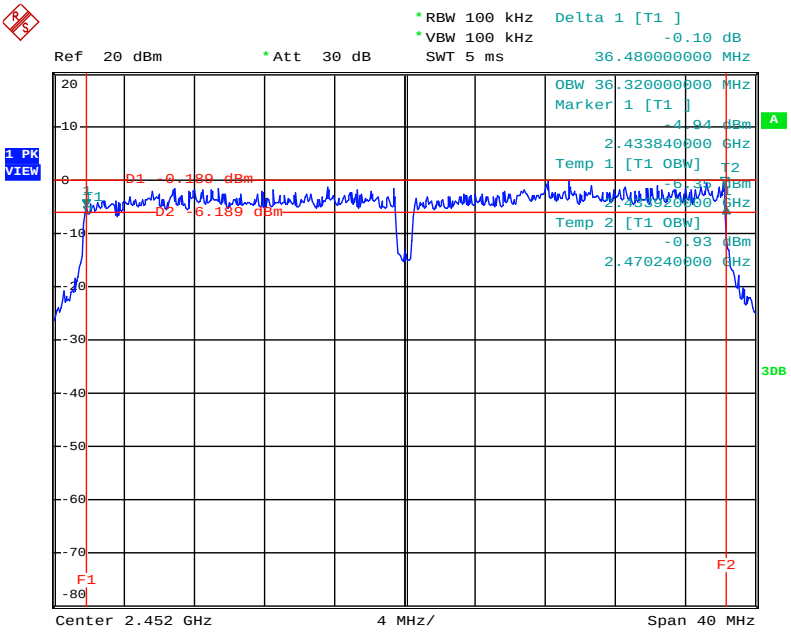
Date: 8.MAY.2012 21:40:47

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 / 2452 MHz (2TX)



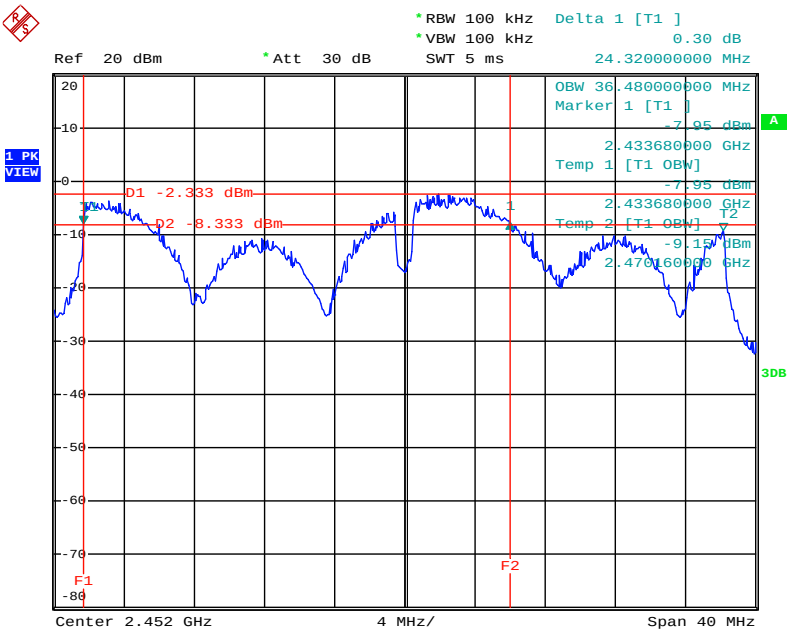
Date: 8.MAY.2012 20:36:07

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 / 2452 MHz (2TX)



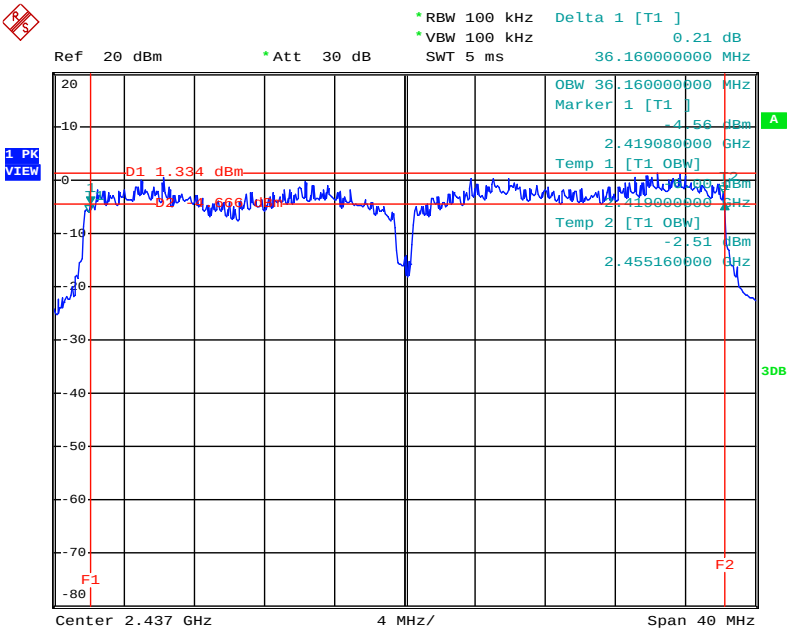
Date: 8.MAY.2012 20:37:31

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 + Chain 3 / 2452 MHz (3TX)



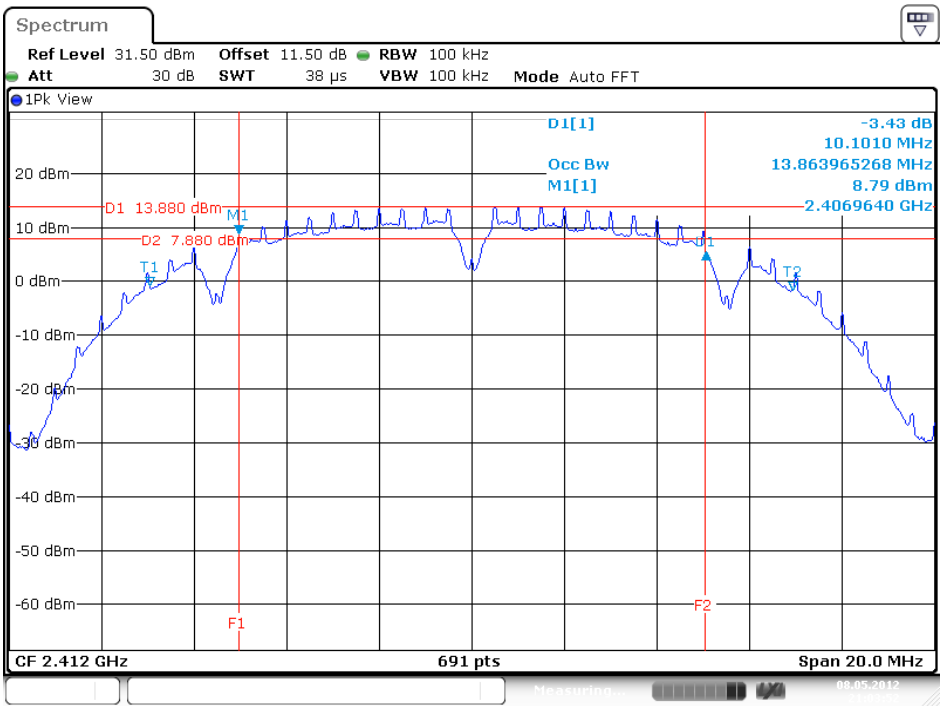
Date: 8.MAY.2012 21:11:53

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 + Chain 3 / 2437 MHz (3TX)



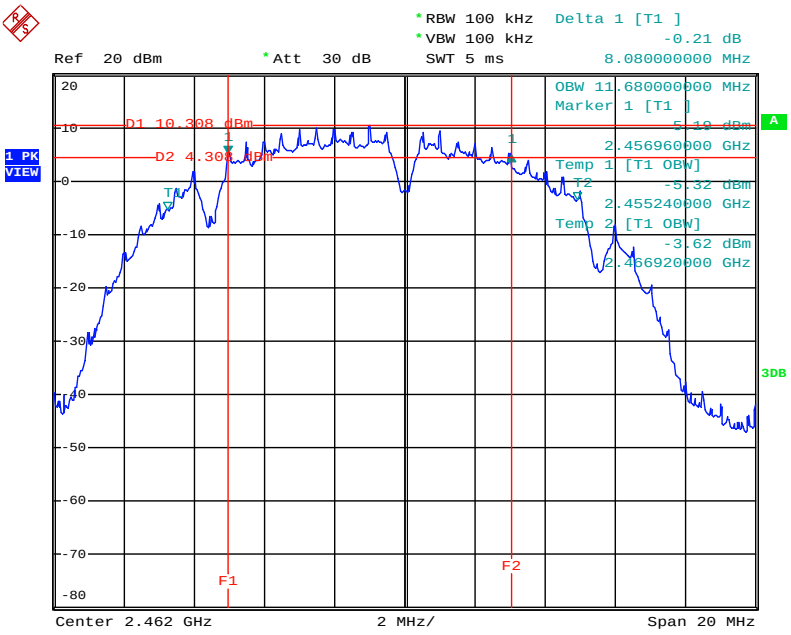
Date: 8.MAY.2012 21:16:03

6 dB Bandwidth Plot on Configuration IEEE 802.11b / Chain 1 / 2412 MHz (1TX)



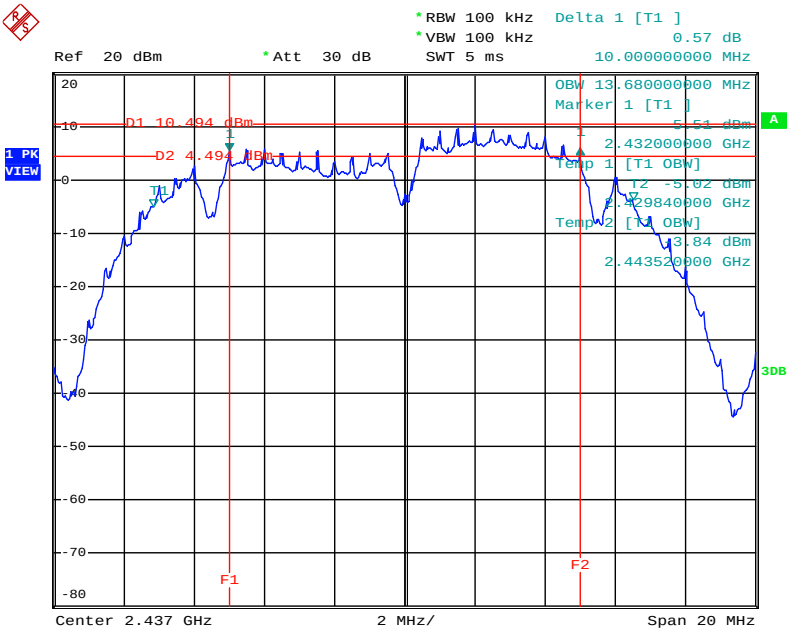
Date: 8.MAY.2012 21:03:52

6 dB Bandwidth Plot on Configuration IEEE 802.11b / Chain 1 + Chain 2 / 2462 MHz (2TX)



Date: 8.MAY.2012 20:22:09

6 dB Bandwidth Plot on Configuration IEEE 802.11b / Chain 1 + Chain 2 + Chain 3 / 2437 MHz (3TX)



Date: 8.MAY.2012 20:47:48

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n
Test Mode	Mode 6 (Ant. 6 Dipole antenna / 8dBi)		

1TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.84	17.84	500	Complies
157	5785 MHz	17.84	17.88	500	Complies
165	5825 MHz	17.84	17.84	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	36.64	36.40	500	Complies
159	5795 MHz	36.64	36.48	500	Complies

2TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	12.28	16.04	500	Complies
157	5785 MHz	17.84	18.28	500	Complies
165	5825 MHz	13.28	16.32	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	32.32	34.88	500	Complies
159	5795 MHz	36.56	36.80	500	Complies

Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.68	17.72	500	Complies
157	5785 MHz	17.68	17.76	500	Complies
165	5825 MHz	17.72	17.72	500	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	36.56	36.40	500	Complies
159	5795 MHz	36.48	36.40	500	Complies

3TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.76	17.96	500	Complies
157	5785 MHz	14.44	17.56	500	Complies
165	5825 MHz	15.08	17.56	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	35.12	36.16	500	Complies
159	5795 MHz	27.60	35.84	500	Complies

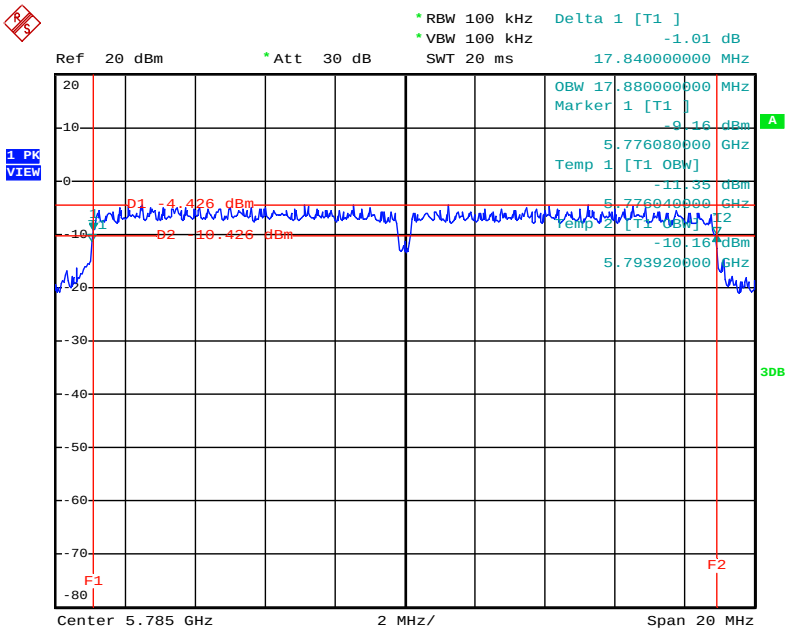
Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.84	17.84	500	Complies
157	5785 MHz	17.80	17.84	500	Complies
165	5825 MHz	15.28	17.52	500	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 + Chain 3

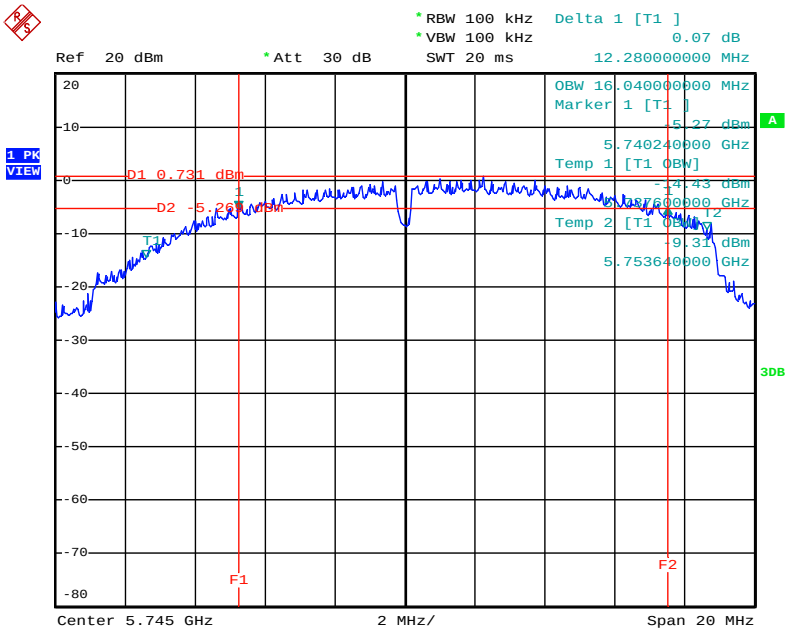
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	32.72	36.00	500	Complies
159	5795 MHz	31.76	36.00	500	Complies

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5785 MHz (1TX)



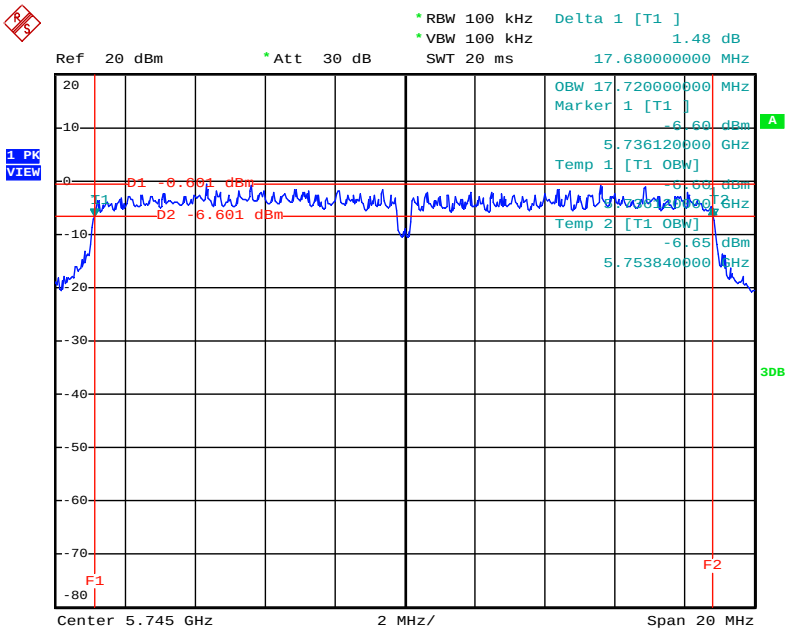
Date: 10.MAY.2012 16:02:05

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 / 5745 MHz (2TX)

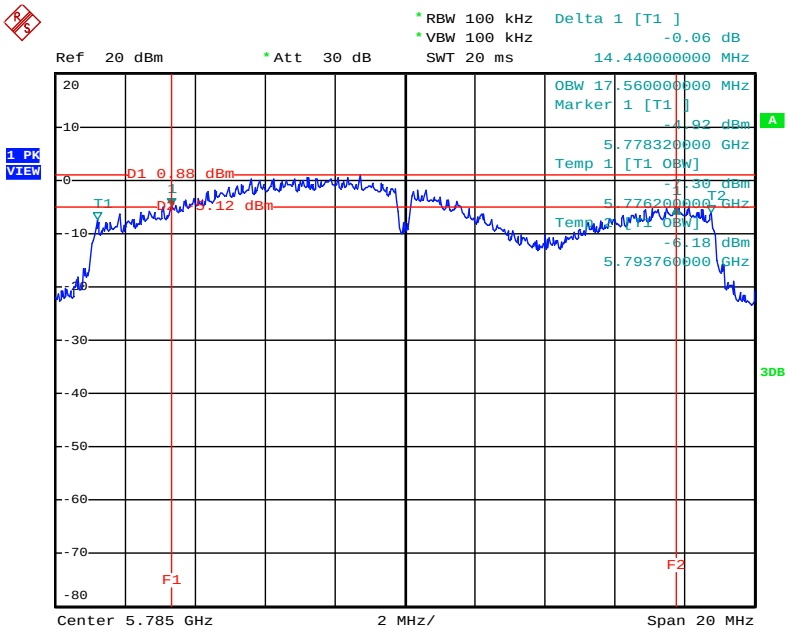


Date: 10.MAY.2012 16:05:38

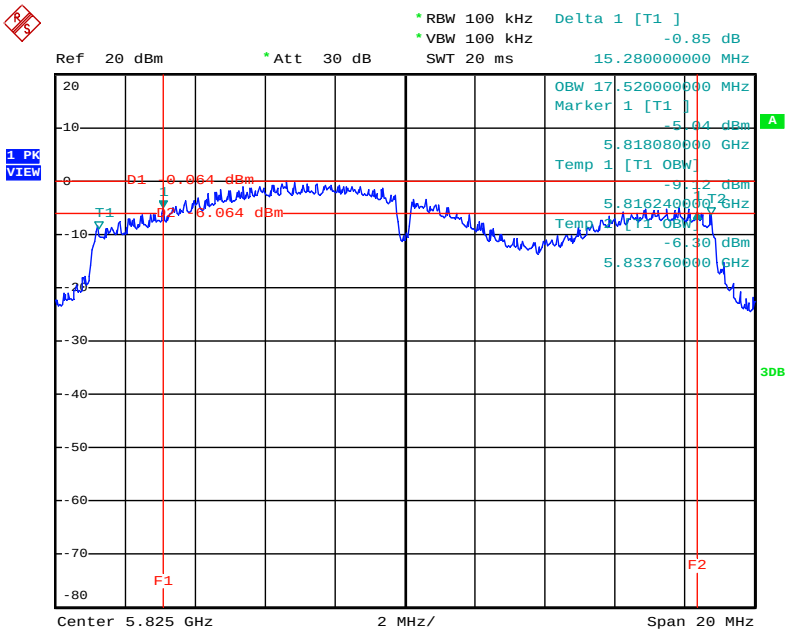
6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2/ 5745 MHz (2TX)



6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 + Chain 3 / 5785 MHz (3TX)

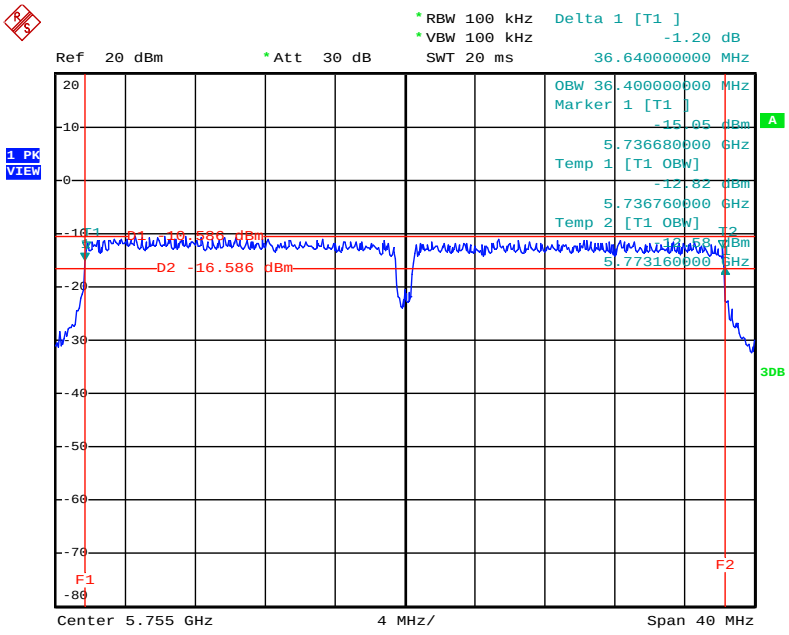


6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 + Chain 3 / 5825 MHz (3TX)



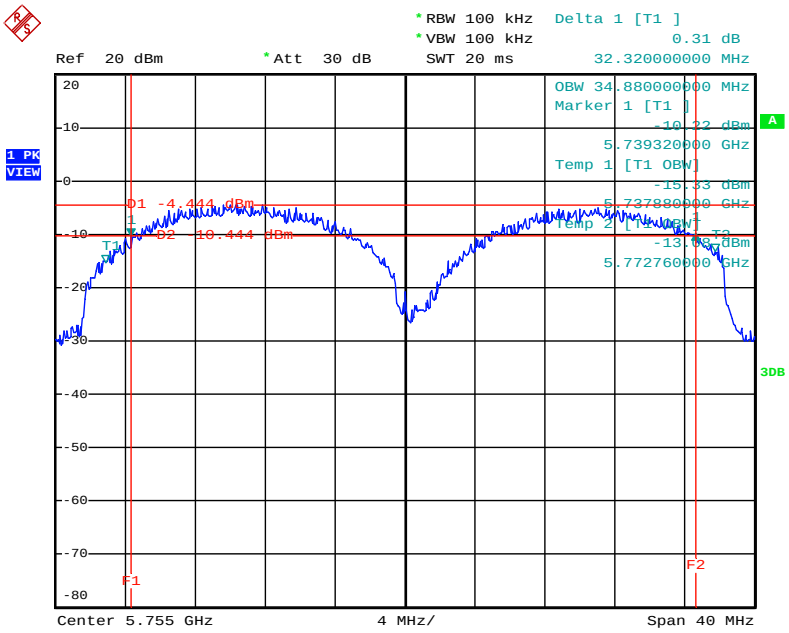
Date: 10.MAY.2012 16:13:17

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5755 MHz (1TX)



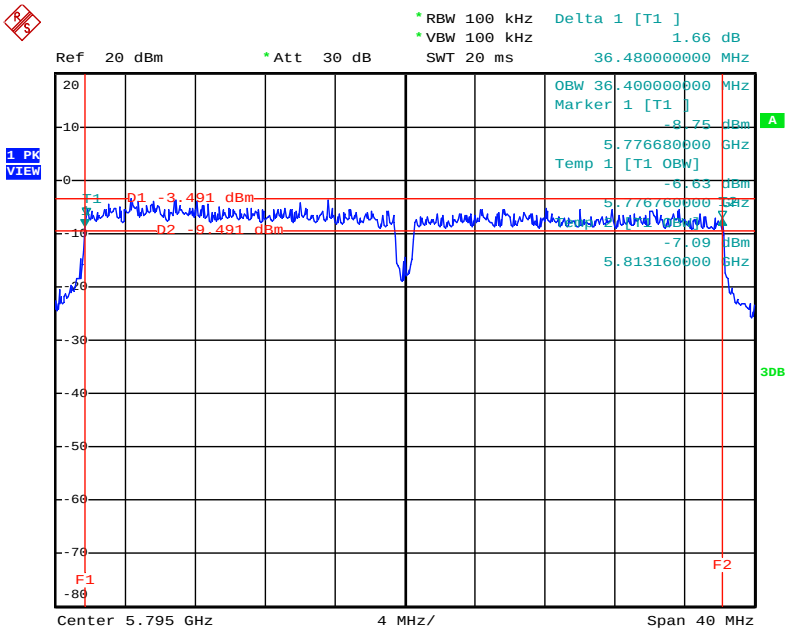
Date: 10.MAY.2012 16:03:08

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 / 5755 MHz (2TX)



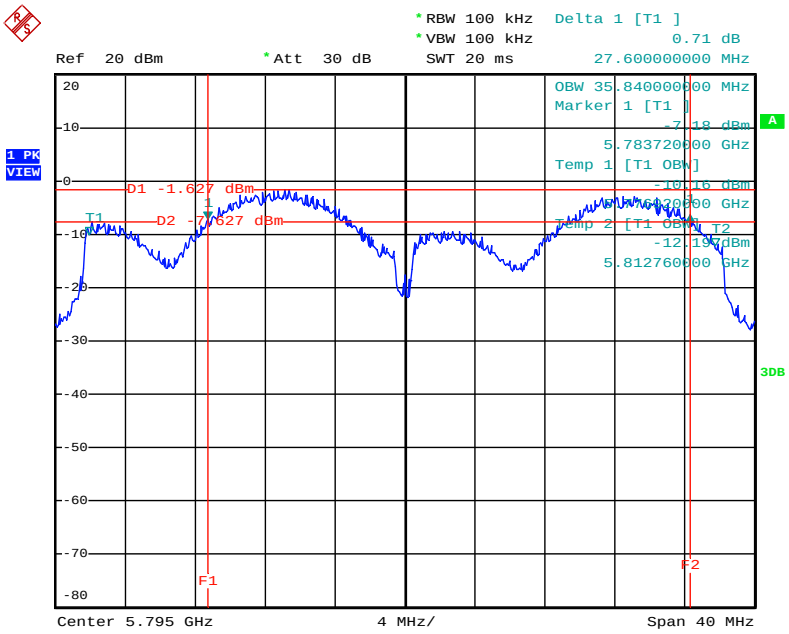
Date: 10.MAY.2012 16:05:04

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 / 5795 MHz (2TX)



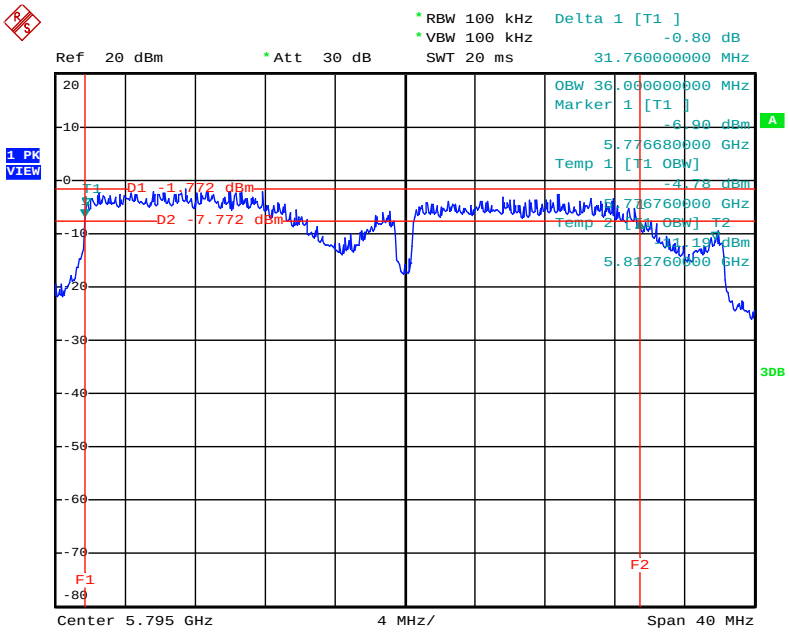
Date: 10.MAY.2012 16:08:39

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 + Chain 3 / 5795 MHz (3TX)



Date: 10.MAY.2012 16:10:23

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 + Chain 3 / 5795 MHz (3TX)



Date: 10.MAY.2012 16:09:04

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n
Test Mode	Mode 7 (Ant. 7 Patch antenna / 2.3dBi)		

1TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.80	17.76	500	Complies
157	5785 MHz	17.84	17.80	500	Complies
165	5825 MHz	17.84	17.80	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	36.56	36.40	500	Complies
159	5795 MHz	36.64	36.40	500	Complies

2TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	12.92	15.92	500	Complies
157	5785 MHz	17.84	18.00	500	Complies
165	5825 MHz	13.16	16.28	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	36.56	36.56	500	Complies
159	5795 MHz	36.56	36.64	500	Complies

Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.72	17.72	500	Complies
157	5785 MHz	17.72	17.72	500	Complies
165	5825 MHz	17.60	17.68	500	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	36.40	36.32	500	Complies
159	5795 MHz	36.40	36.40	500	Complies

3TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.72	17.92	500	Complies
157	5785 MHz	14.80	17.52	500	Complies
165	5825 MHz	17.72	17.88	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	29.20	36.08	500	Complies
159	5795 MHz	27.84	36.00	500	Complies

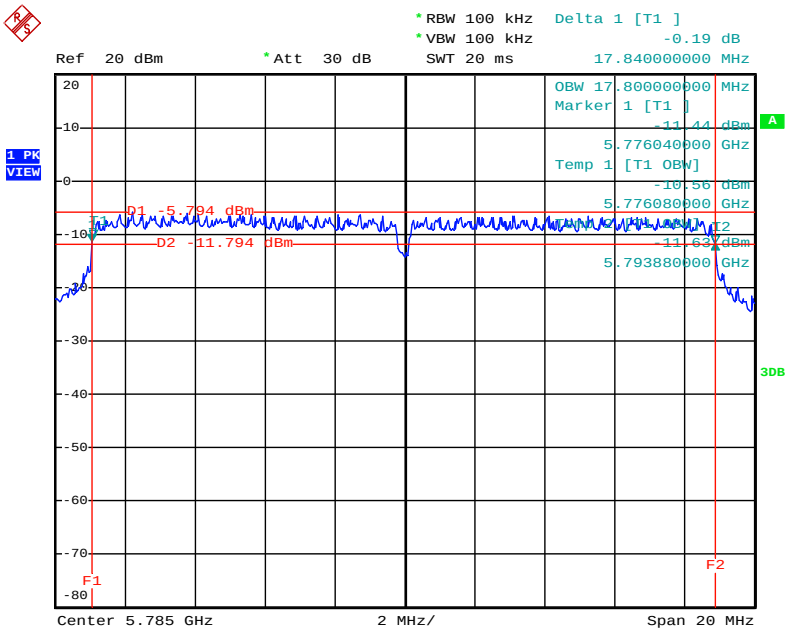
Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.72	17.80	500	Complies
157	5785 MHz	16.68	17.52	500	Complies
165	5825 MHz	17.76	17.80	500	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 + Chain 3

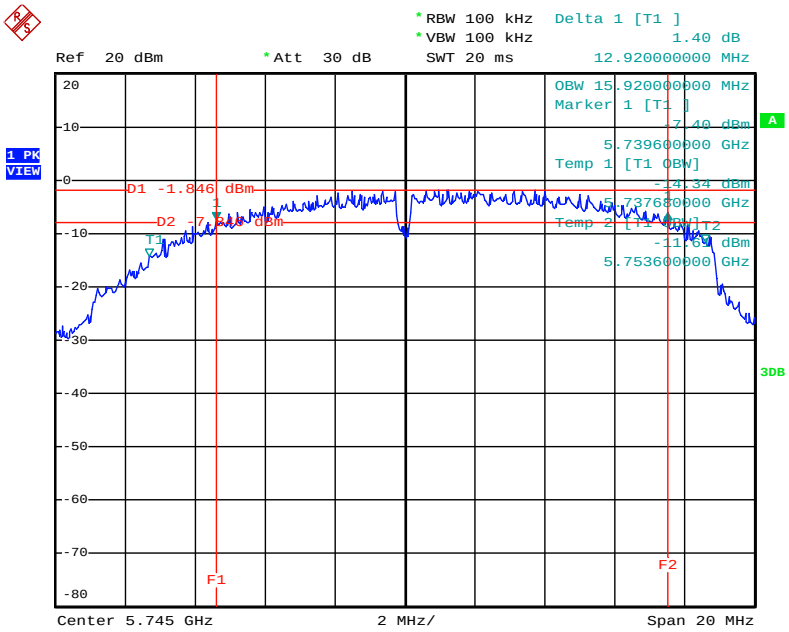
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	32.00	36.00	500	Complies
159	5795 MHz	35.52	36.00	500	Complies

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5785 MHz (1TX)



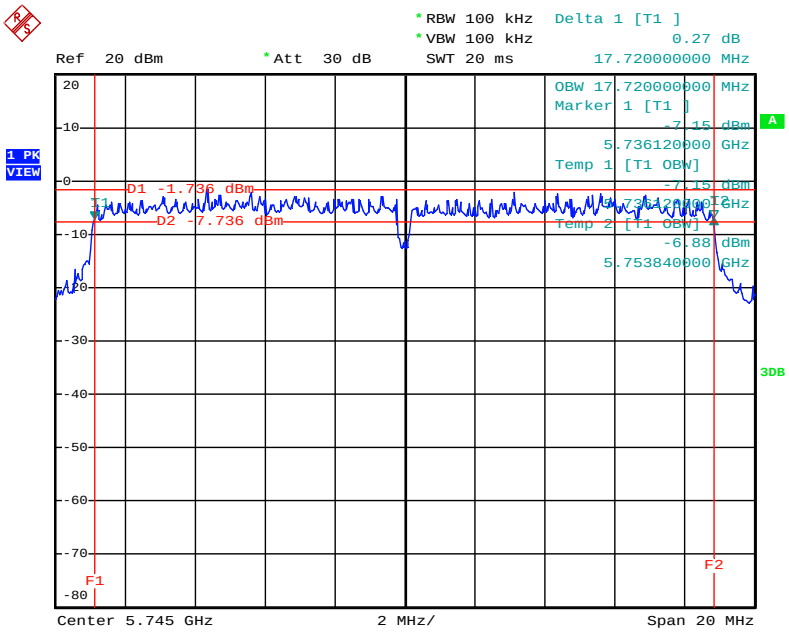
Date: 10.MAY.2012 16:46:11

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 / 5745 MHz (2TX)



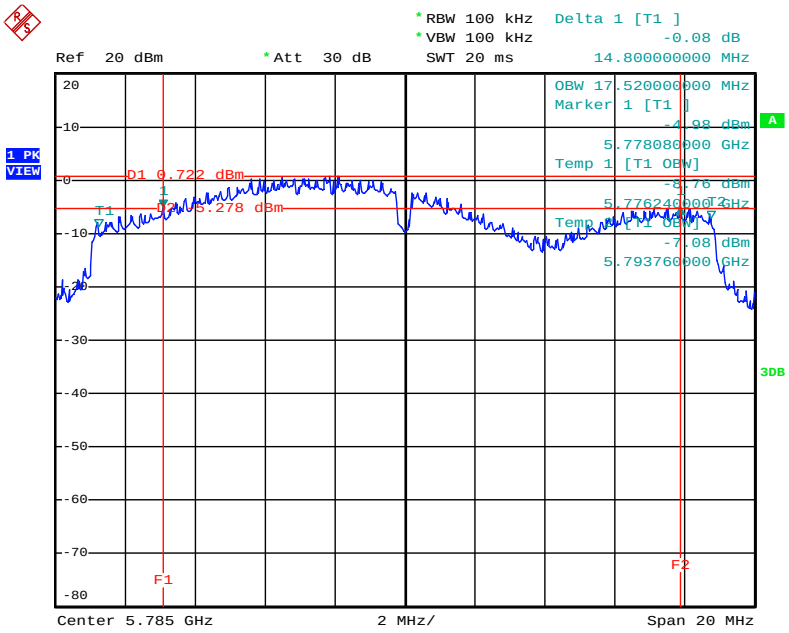
Date: 10.MAY.2012 16:38:02

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2/ 5745 MHz (2TX)



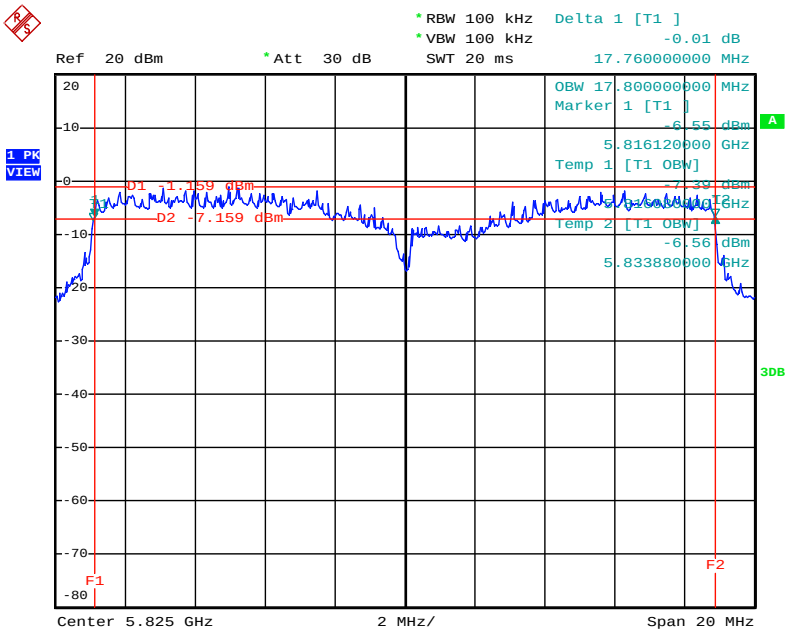
Date: 10.MAY.2012 16:39:56

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 + Chain 3 / 5785 MHz (3TX)



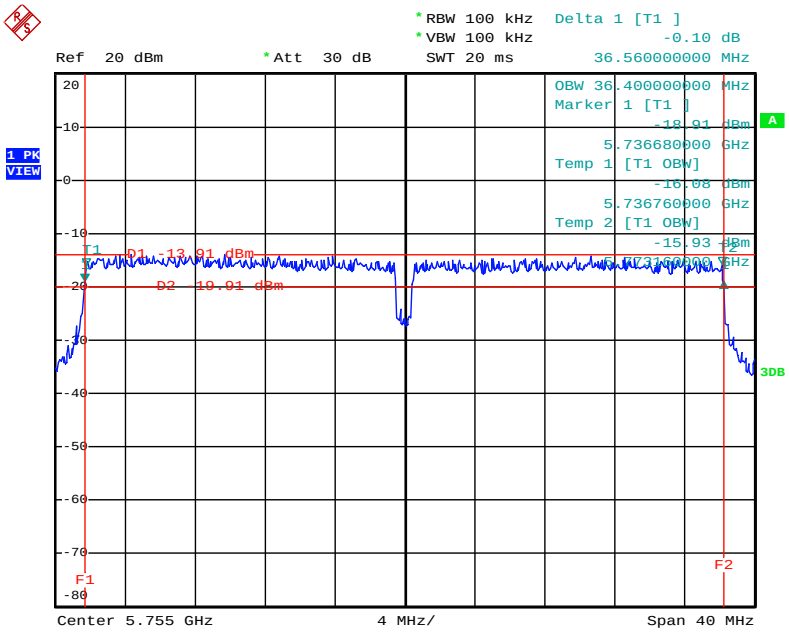
Date: 10.MAY.2012 16:37:00

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 + Chain 3 / 5825 MHz (3TX)



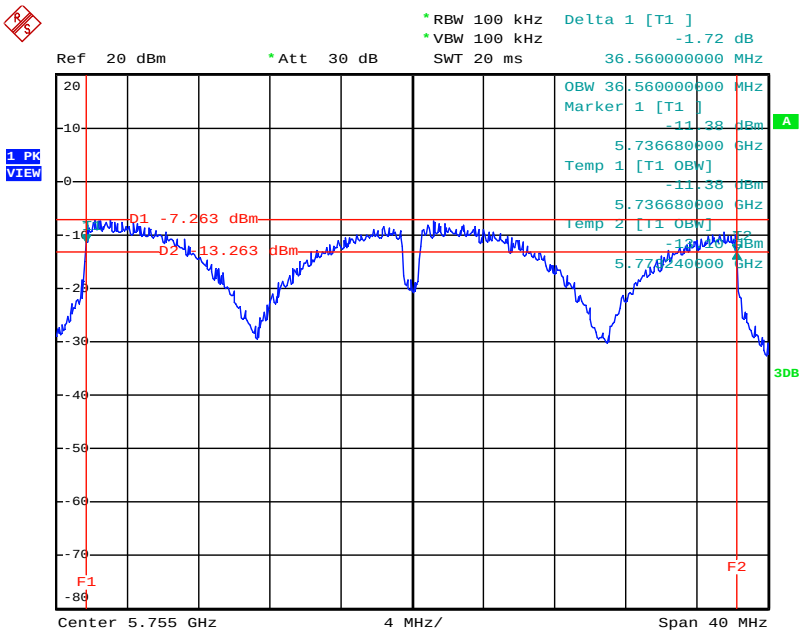
Date: 10.MAY.2012 16:36:11

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5755 MHz (1TX)



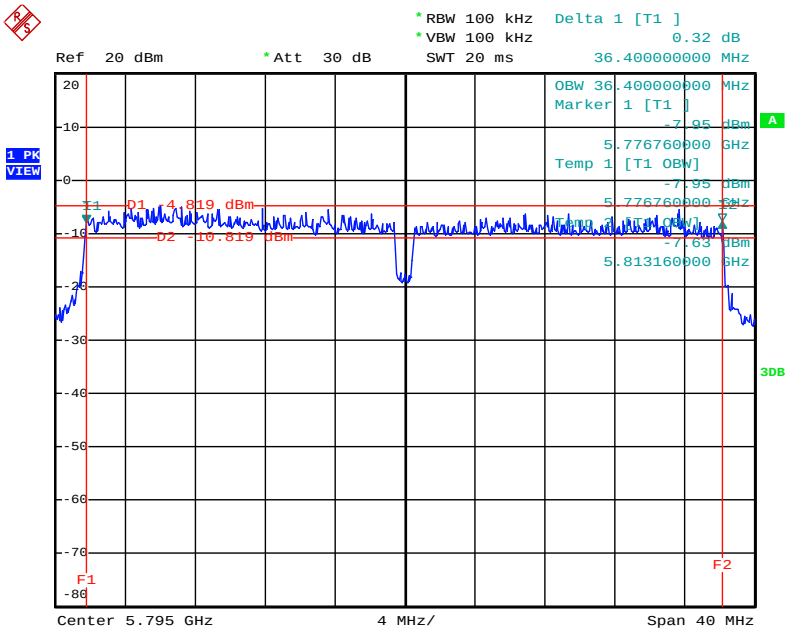
Date: 10.MAY.2012 16:42:34

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 / 5755 MHz (2TX)



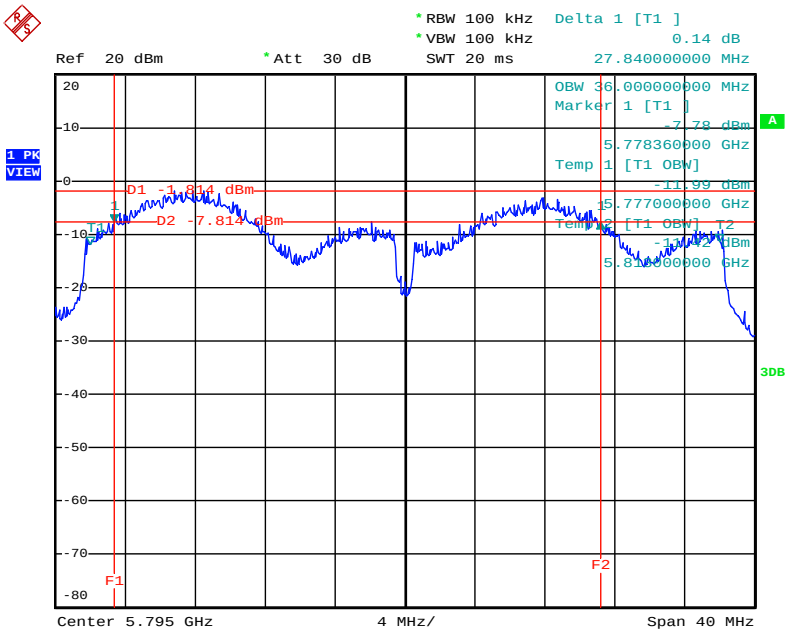
Date: 10.MAY.2012 16:41:59

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 / 5795 MHz (2TX)



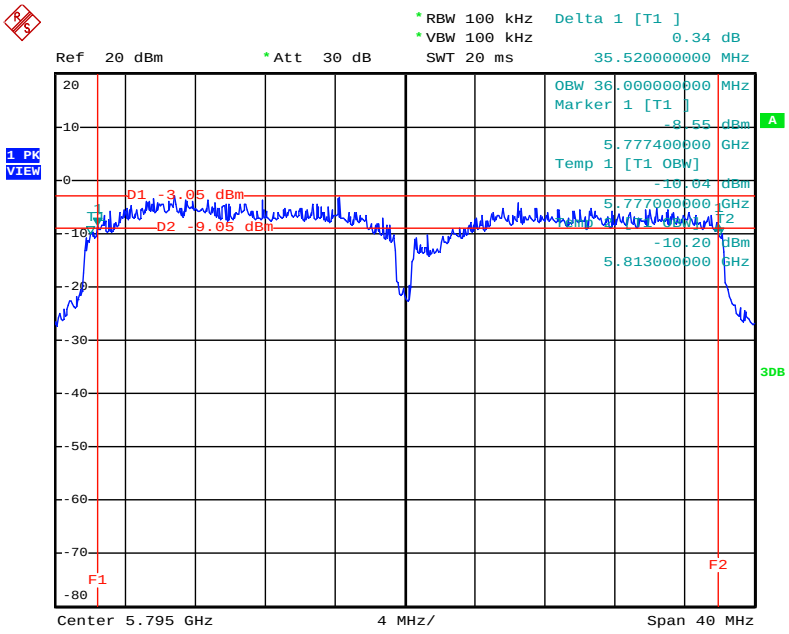
Date: 10.MAY.2012 16:41:04

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 + Chain 3 / 5795 MHz (3TX)



Date: 10.MAY.2012 16:34:26

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 + Chain 3 / 5795 MHz (3TX)



Date: 10.MAY.2012 16:34:51

Temperature	25°C	Humidity	56%
Test Engineer	Densin Su	Configurations	IEEE 802.11n
Test Mode	Mode 8 (Ant. 8 Panel antenna / 10.5dBi)		

1TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.84	17.92	500	Complies
157	5785 MHz	17.76	21.60	500	Complies
165	5825 MHz	17.84	20.32	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	36.64	36.48	500	Complies
159	5795 MHz	36.48	40.48	500	Complies

2TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.84	18.40	500	Complies
157	5785 MHz	17.76	19.28	500	Complies
165	5825 MHz	12.56	16.80	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	36.64	36.64	500	Complies
159	5795 MHz	36.48	37.12	500	Complies

Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.76	17.84	500	Complies
157	5785 MHz	17.68	18.88	500	Complies
165	5825 MHz	17.68	18.08	500	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	36.48	36.48	500	Complies
159	5795 MHz	36.48	37.12	500	Complies

3TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.76	18.16	500	Complies
157	5785 MHz	17.76	18.16	500	Complies
165	5825 MHz	17.68	18.16	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	25.92	35.36	500	Complies
159	5795 MHz	24.96	35.68	500	Complies

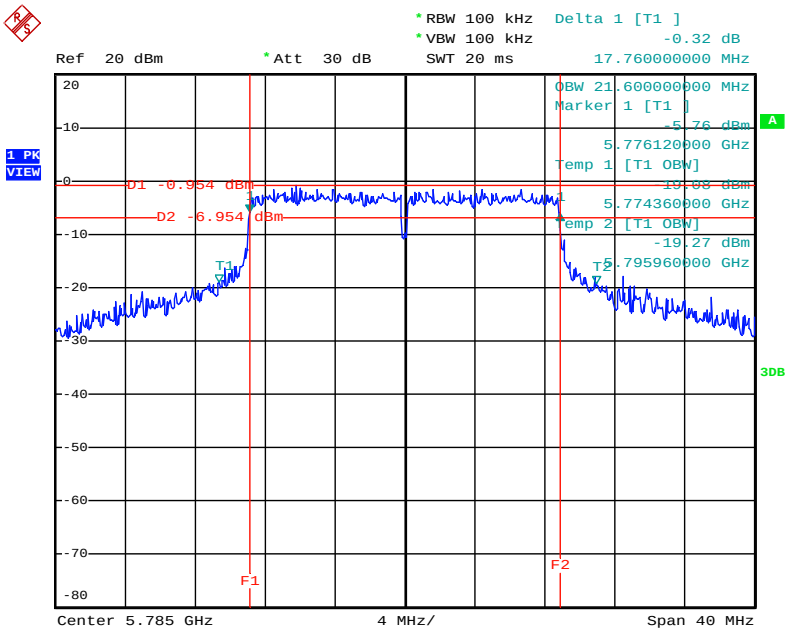
Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.76	17.92	500	Complies
157	5785 MHz	15.68	17.60	500	Complies
165	5825 MHz	16.08	17.52	500	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 + Chain 3

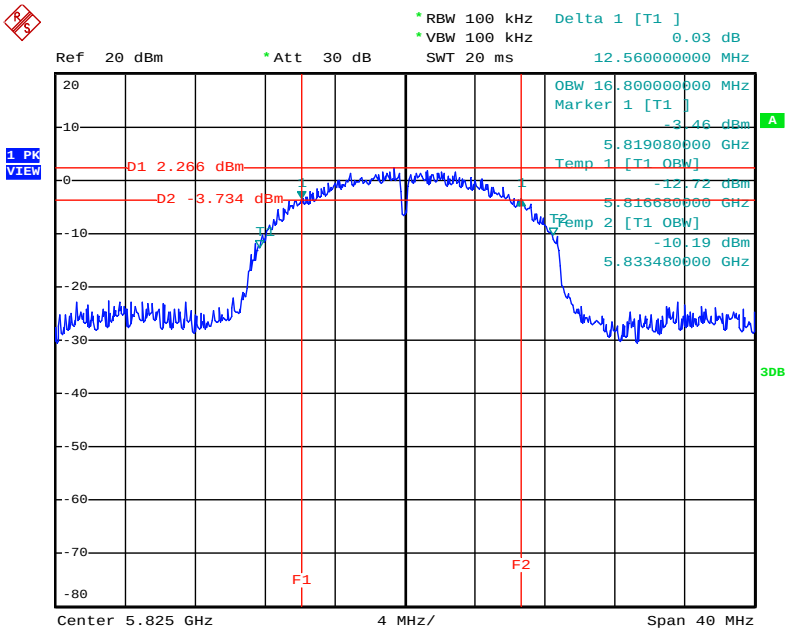
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	36.48	36.48	500	Complies
159	5795 MHz	33.28	36.16	500	Complies

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5785 MHz (1TX)



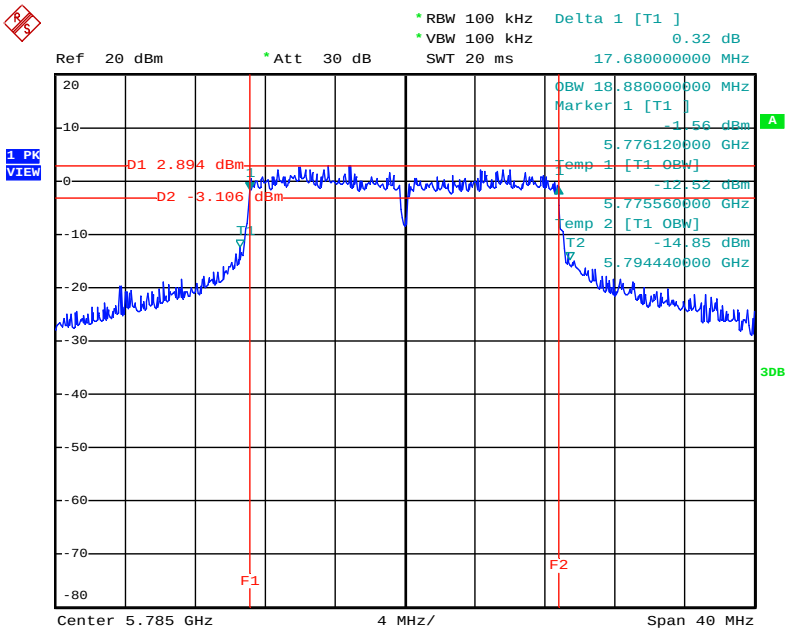
Date: 5.JUN.2012 13:46:00

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 / 5825 MHz (2TX)



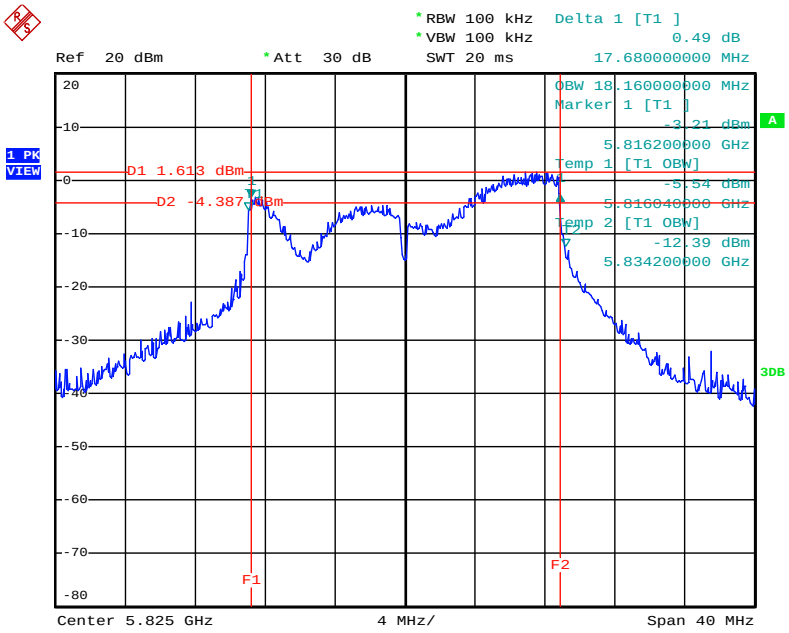
Date: 5.JUN.2012 13:41:41

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2/ 5785MHz (2TX)



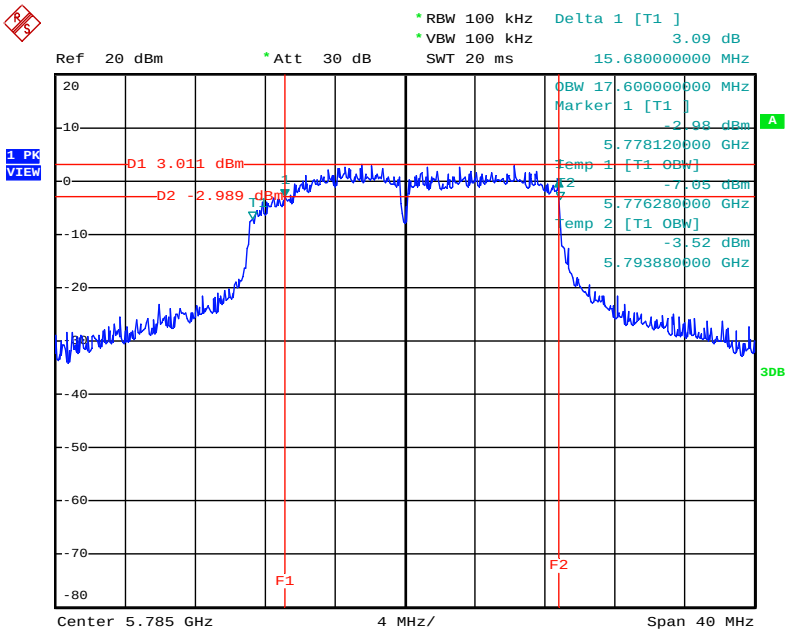
Date: 5.JUN.2012 13:42:25

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 + Chain 3 / 5825 MHz (3TX)



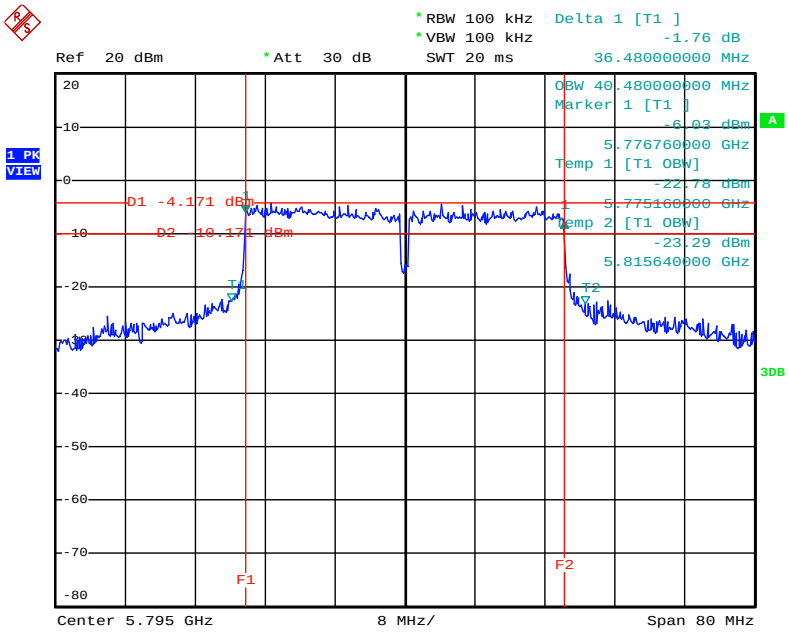
Date: 5.JUN.2012 13:39:07

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 + Chain 3 / 5785 MHz (3TX)



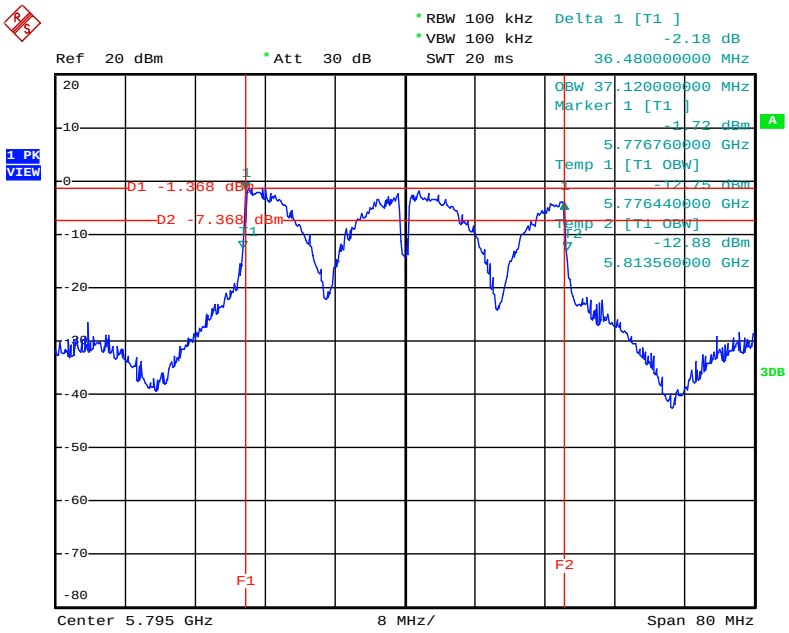
Date: 5.JUN.2012 13:38:22

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5795 MHz (1TX)



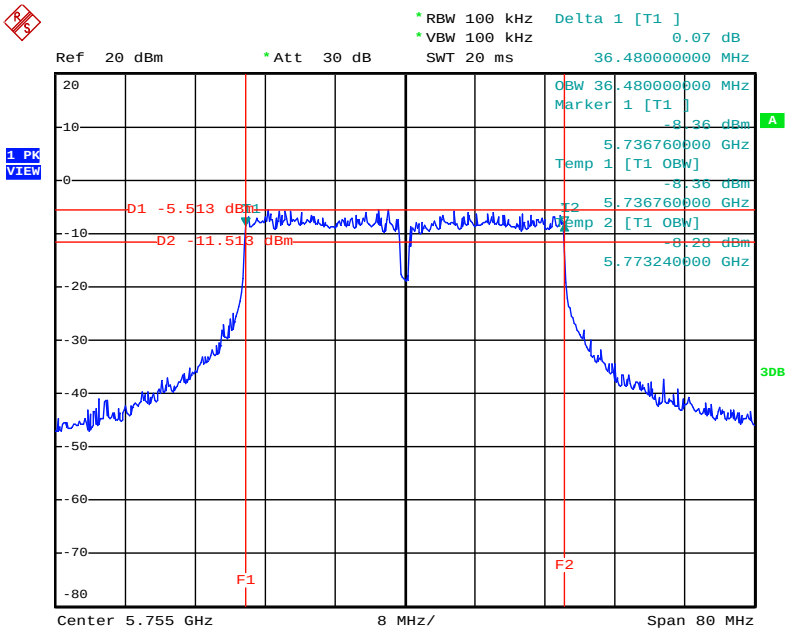
Date: 5.JUN.2012 13:45:11

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 / 5795 MHz (2TX)



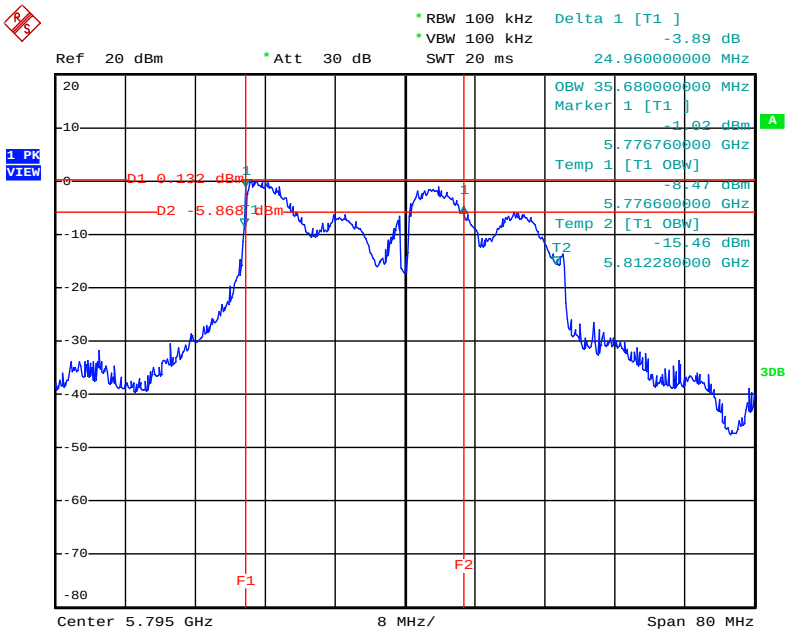
Date: 5.JUN.2012 13:44:09

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 / 5755 MHz (2TX)



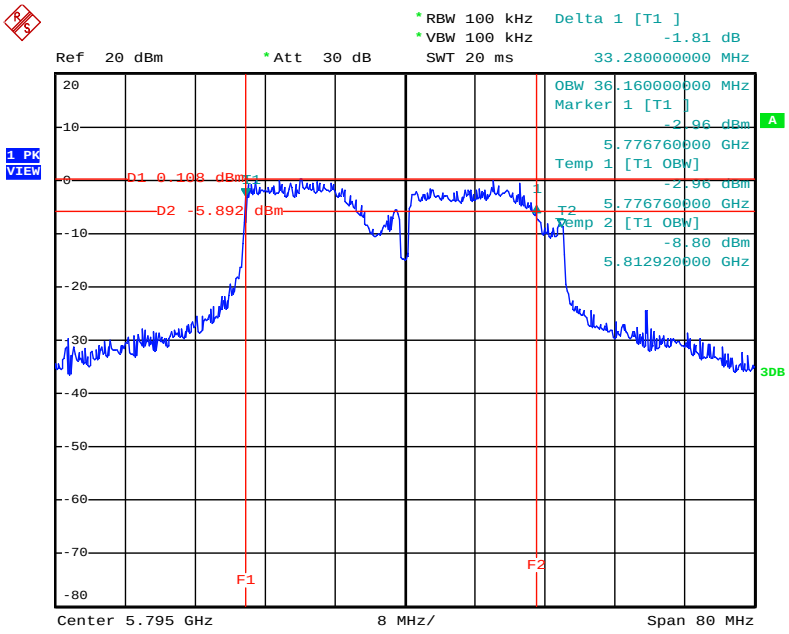
Date: 5.JUN.2012 13:43:15

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 + Chain 3 / 5795 MHz (3TX)



Date: 5.JUN.2012 13:36:17

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 + Chain 3 / 5795 MHz (3TX)



Date: 5.JUN.2012 13:36:57

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n
Test Mode	Mode 9 (Ant. 9 Yagi antenna / 8dBi)		

1TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.84	17.76	500	Complies
157	5785 MHz	17.76	17.80	500	Complies
165	5825 MHz	17.80	17.84	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	36.64	36.40	500	Complies
159	5795 MHz	36.64	36.40	500	Complies

2TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	12.52	16.04	500	Complies
157	5785 MHz	17.84	18.16	500	Complies
165	5825 MHz	17.80	18.08	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	36.48	36.56	500	Complies
159	5795 MHz	31.68	35.20	500	Complies

Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.72	17.72	500	Complies
157	5785 MHz	17.72	17.72	500	Complies
165	5825 MHz	17.68	17.72	500	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	36.40	36.40	500	Complies
159	5795 MHz	36.64	36.40	500	Complies

3TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.04	17.68	500	Complies
157	5785 MHz	14.68	17.52	500	Complies
165	5825 MHz	17.76	18.00	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	27.60	35.76	500	Complies
159	5795 MHz	32.48	36.48	500	Complies

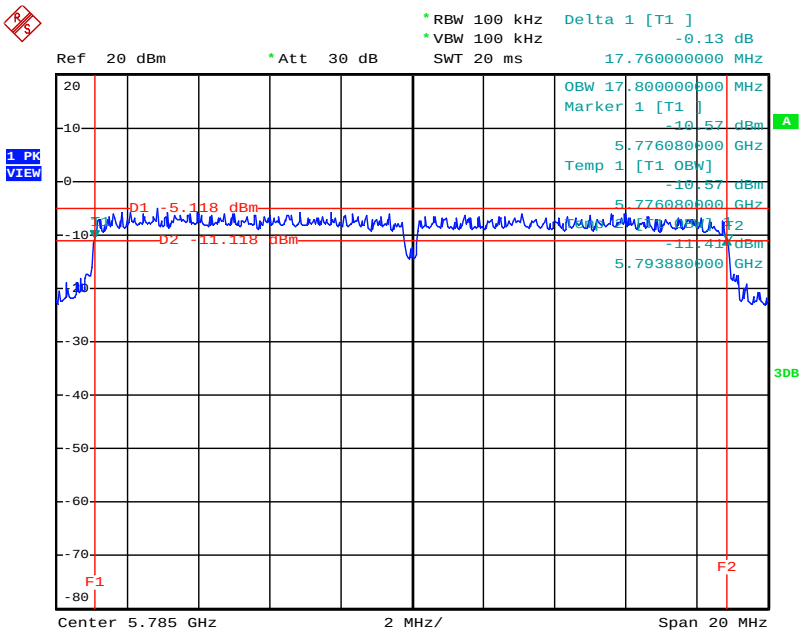
Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.64	17.56	500	Complies
157	5785 MHz	17.68	17.80	500	Complies
165	5825 MHz	17.72	17.72	500	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 + Chain 3

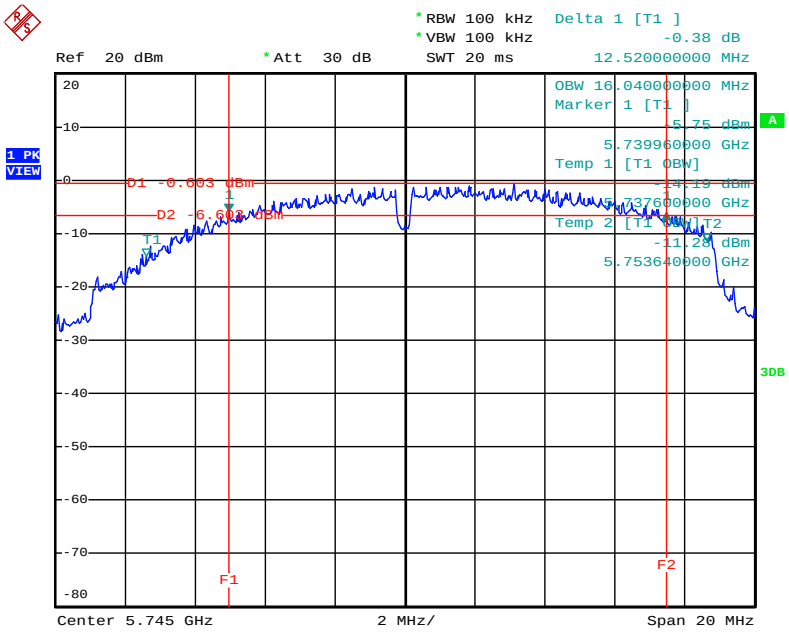
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	36.48	36.40	500	Complies
159	5795 MHz	35.76	36.00	500	Complies

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5785 MHz (1TX)



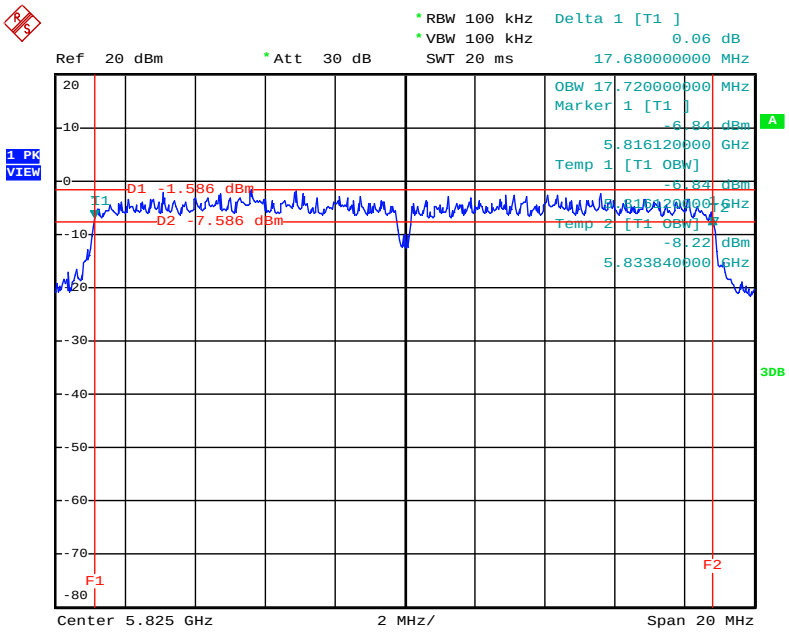
Date: 10.MAY.2012 16:51:19

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 / 5745 MHz (2TX)



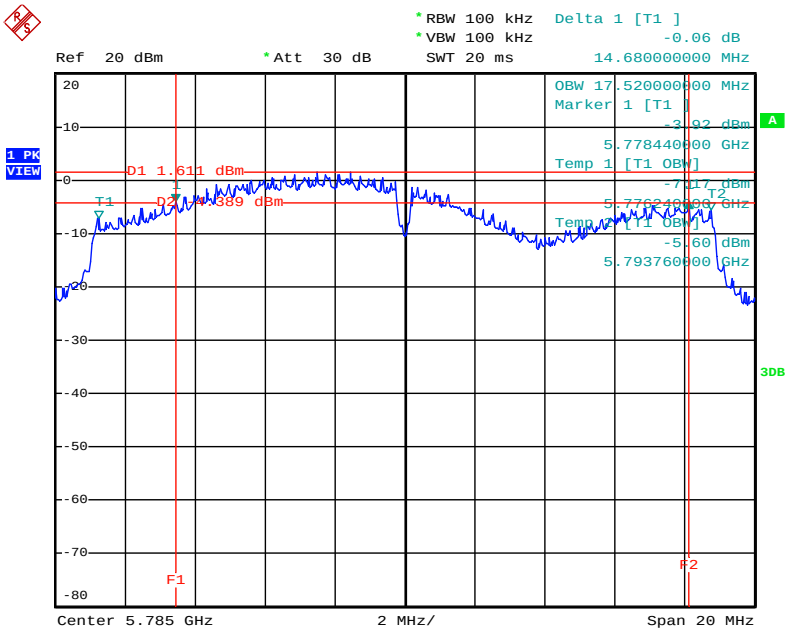
Date: 10.MAY.2012 16:57:19

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2/ 5825 MHz (2TX)



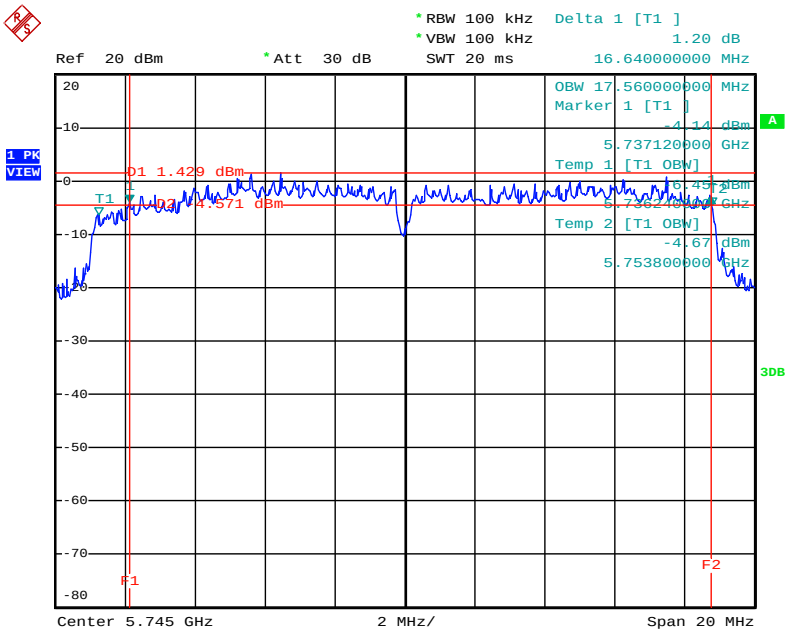
Date: 10.MAY.2012 16:56:05

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 + Chain 3 / 5785 MHz (3TX)



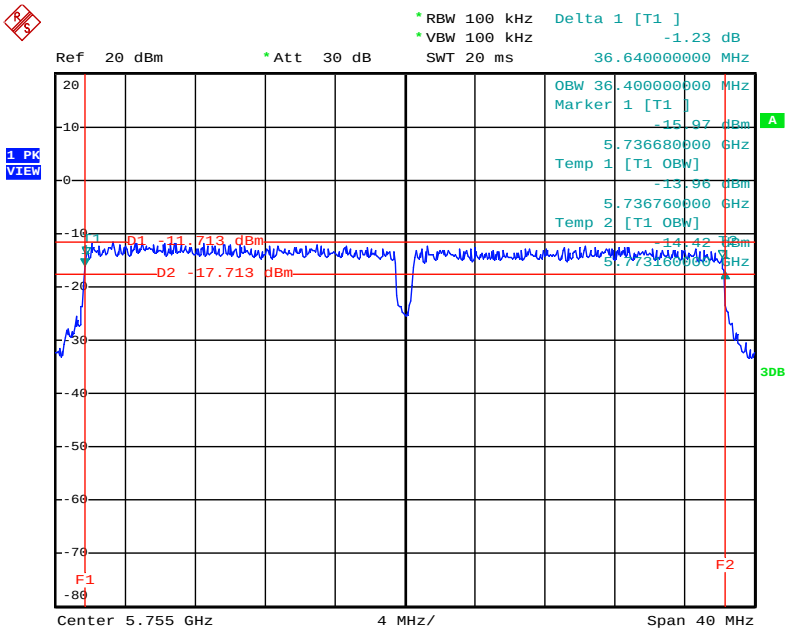
Date: 10.MAY.2012 16:58:02

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 + Chain 3 / 5745 MHz (3TX)



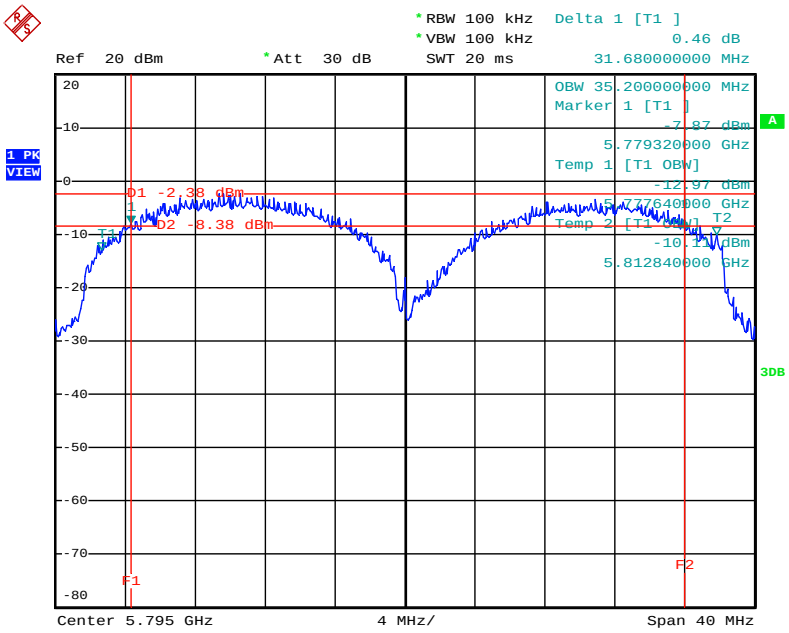
Date: 10.MAY.2012 16:59:33

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5755 MHz (1TX)



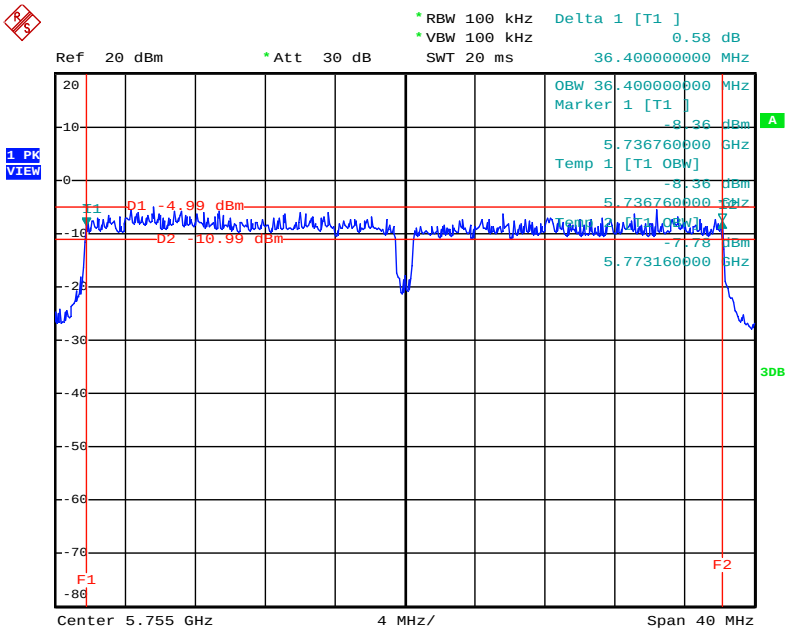
Date: 10.MAY.2012 16:52:24

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 / 5795 MHz (2TX)



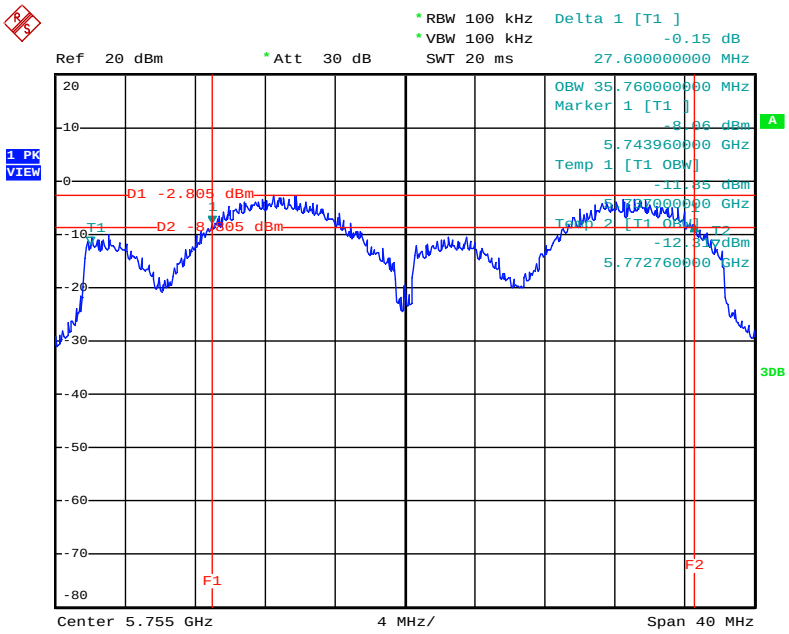
Date: 10.MAY.2012 16:53:23

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 / 5755 MHz (2TX)



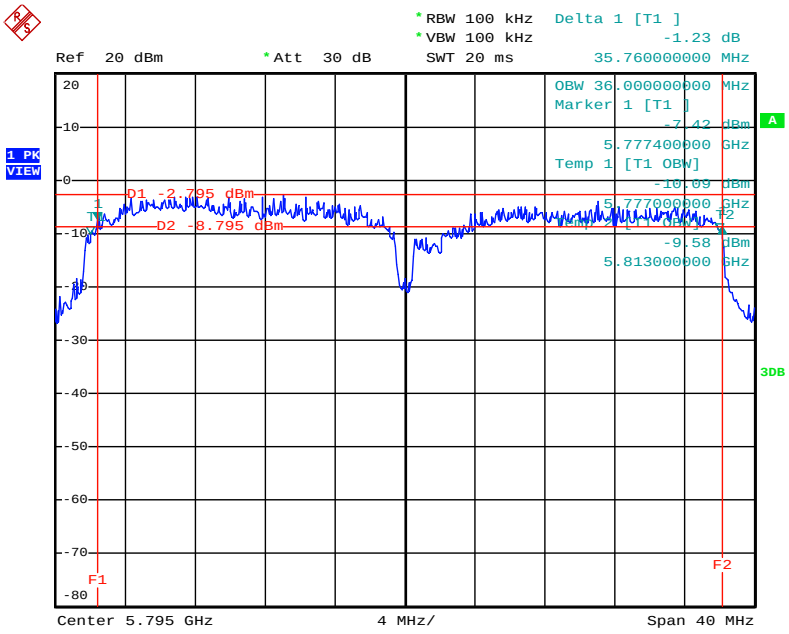
Date: 10.MAY.2012 16:54:10

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 + Chain 3 / 5755 MHz (3TX)



Date: 10.MAY.2012 17:01:23

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 + Chain 3 / 5795 MHz (3TX)



Date: 10.MAY.2012 17:00:34

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n
Test Mode	Mode 10 (Ant. 5 Facade antenna / 2.5dBi)		

1TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.80	17.80	500	Complies
157	5785 MHz	17.84	17.76	500	Complies
165	5825 MHz	17.84	17.76	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	36.56	36.40	500	Complies
159	5795 MHz	36.56	36.40	500	Complies

2TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.80	18.00	500	Complies
157	5785 MHz	17.76	18.08	500	Complies
165	5825 MHz	17.84	18.12	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	32.56	34.72	500	Complies
159	5795 MHz	32.88	35.20	500	Complies

Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.64	17.72	500	Complies
157	5785 MHz	17.72	17.72	500	Complies
165	5825 MHz	17.68	17.72	500	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	36.40	36.32	500	Complies
159	5795 MHz	36.56	36.40	500	Complies

3TX

Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	15.68	17.68	500	Complies
157	5785 MHz	14.40	17.60	500	Complies
165	5825 MHz	17.72	17.96	500	Complies

Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	34.24	36.16	500	Complies
159	5795 MHz	32.08	36.48	500	Complies

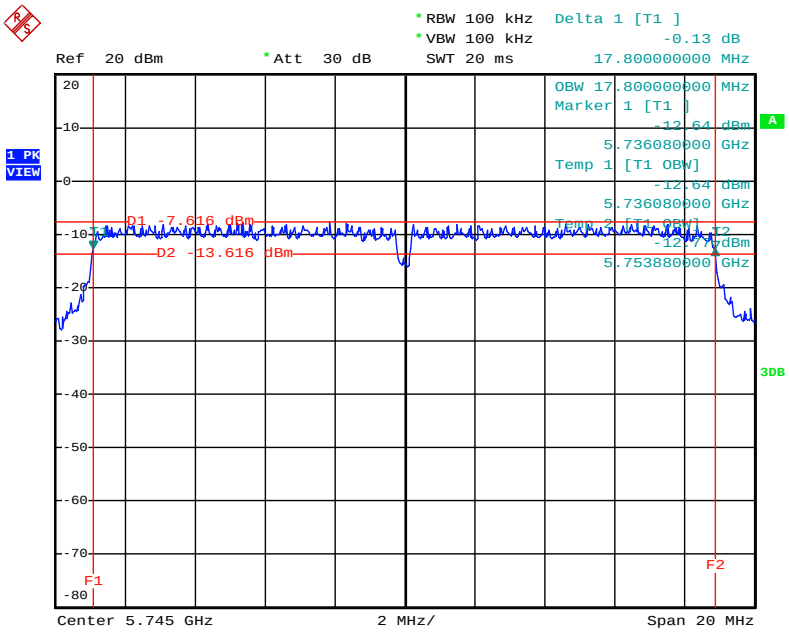
Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.72	17.80	500	Complies
157	5785 MHz	17.72	17.80	500	Complies
165	5825 MHz	16.68	17.56	500	Complies

Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 + Chain 3

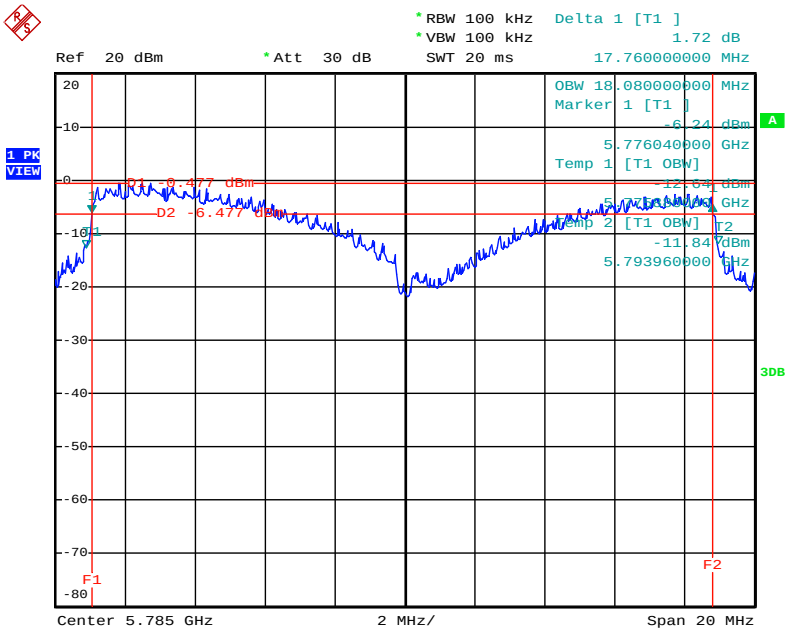
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	36.56	36.40	500	Complies
159	5795 MHz	31.84	36.00	500	Complies

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5745 MHz (1TX)



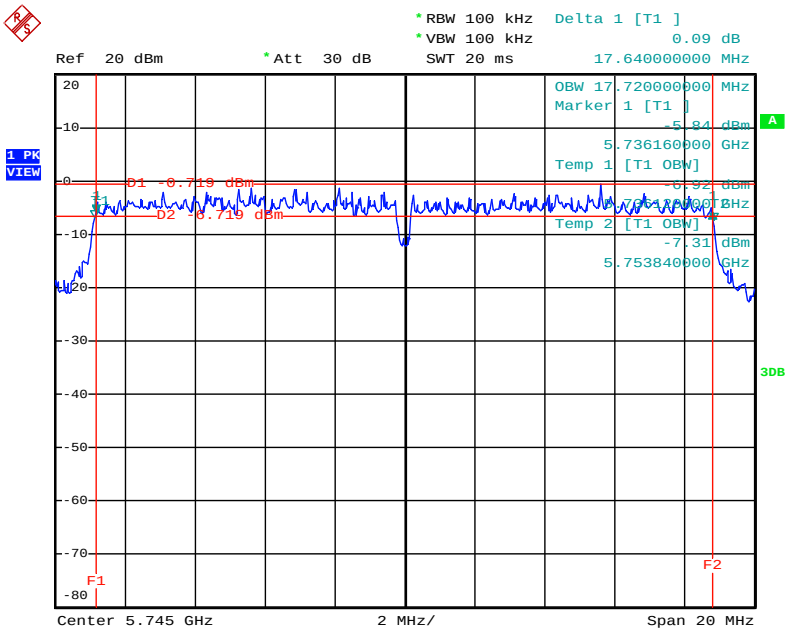
Date: 10.MAY.2012 16:18:56

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 / 5785 MHz (2TX)



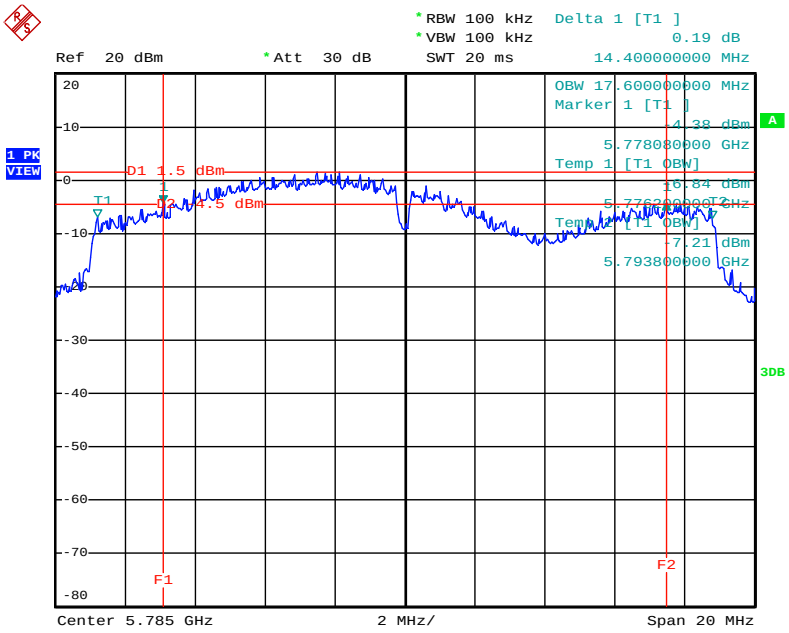
Date: 10.MAY.2012 16:25:16

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2/ 5745 MHz (2TX)



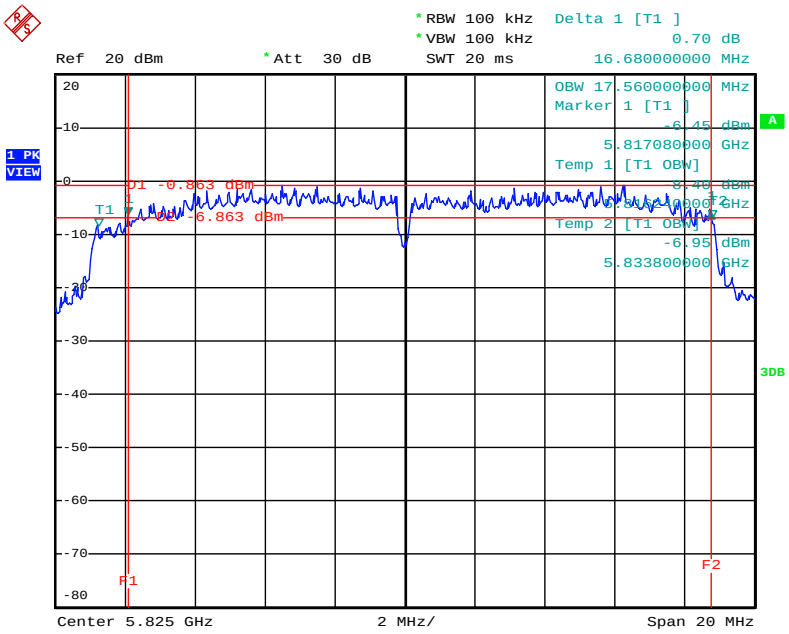
Date: 10.MAY.2012 16:23:48

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 2 + Chain 3 / 5785 MHz (3TX)



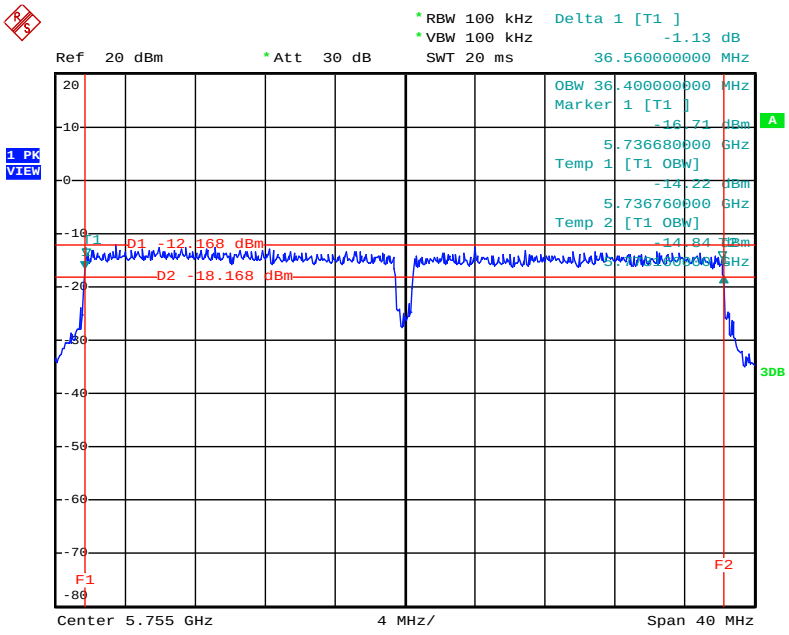
Date: 10.MAY.2012 16:26:32

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 + Chain 2 + Chain 3 / 5825 MHz (3TX)



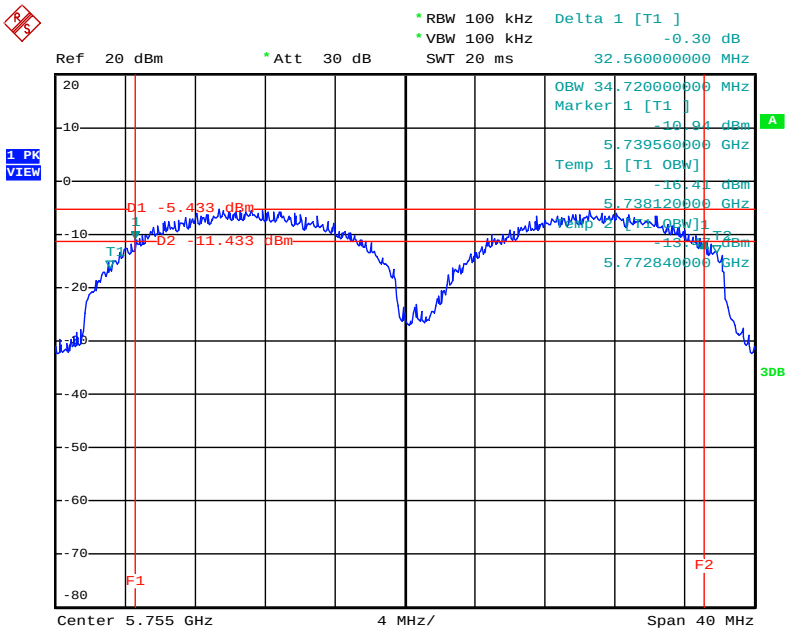
Date: 10.MAY.2012 16:27:28

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5755 MHz (1TX)



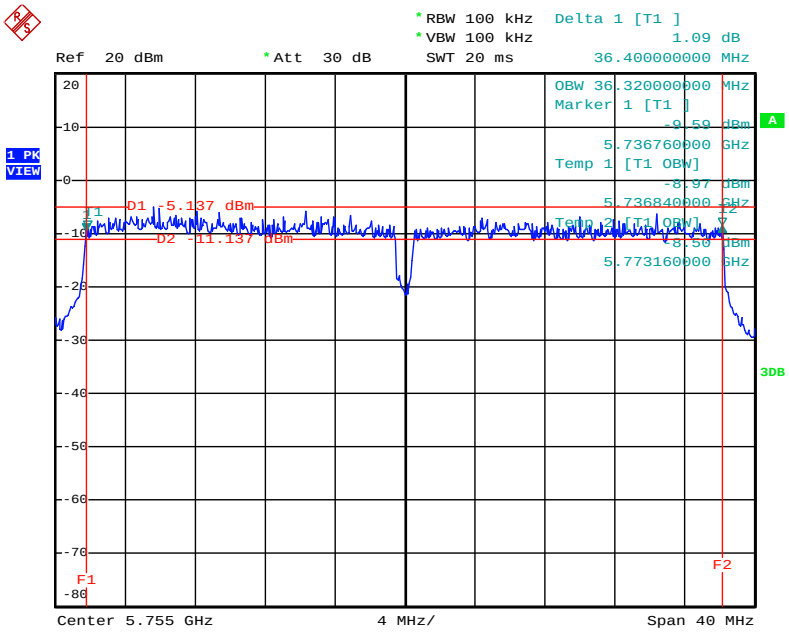
Date: 10.MAY.2012 16:20:36

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 / 5755 MHz (2TX)



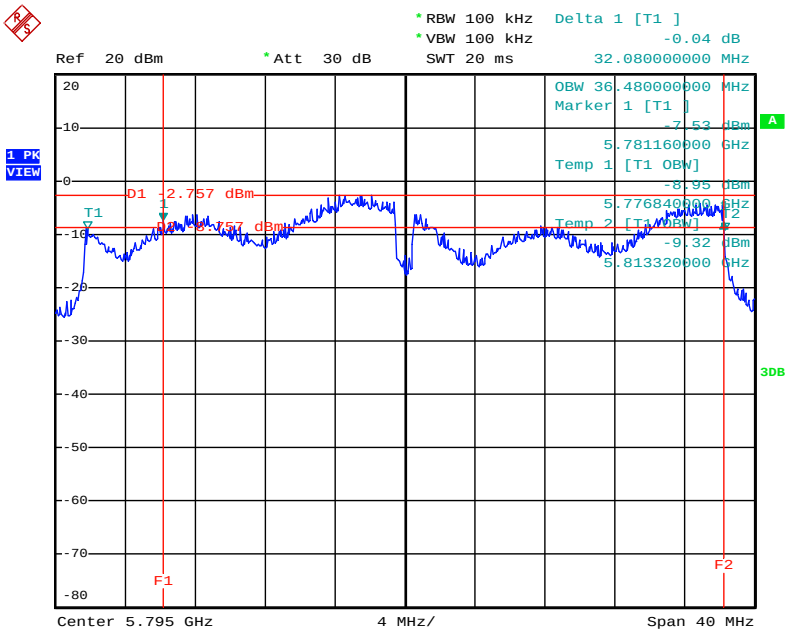
Date: 10.MAY.2012 16:22:14

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 / 5755 MHz (2TX)



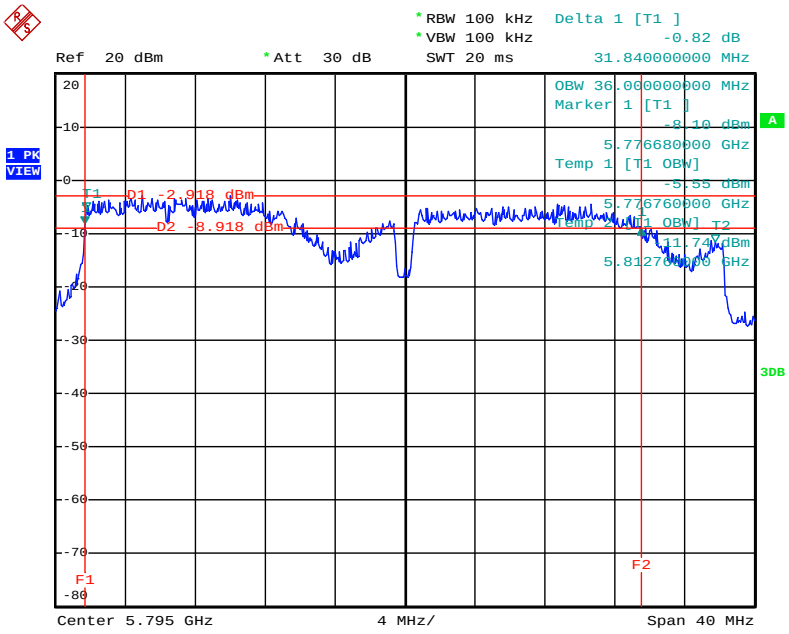
Date: 10.MAY.2012 16:23:00

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 + Chain 2 + Chain 3 / 5795 MHz (3TX)



Date: 10.MAY.2012 16:29:13

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 + Chain 2 + Chain 3 / 5795 MHz (3TX)



Date: 10.MAY.2012 16:28:52

4.5. Radiated Emissions Measurement

4.5.1. Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/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

4.5.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1GHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 3MHz for peak

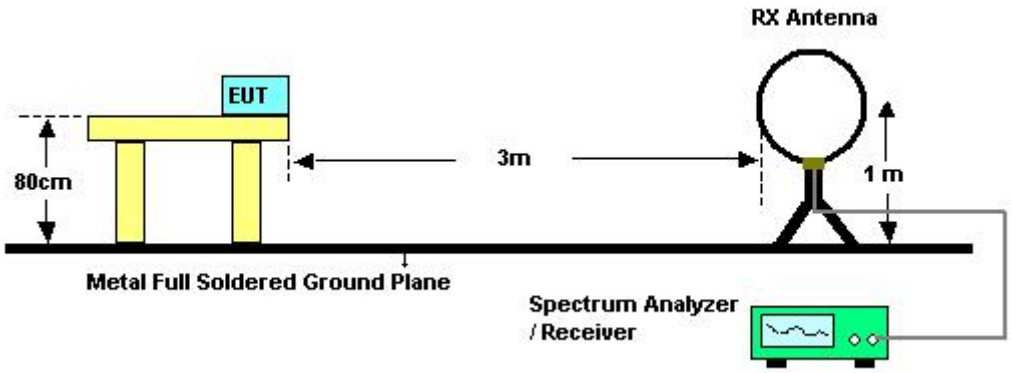
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1GHz / RB 120kHz for QP

4.5.3. Test Procedures

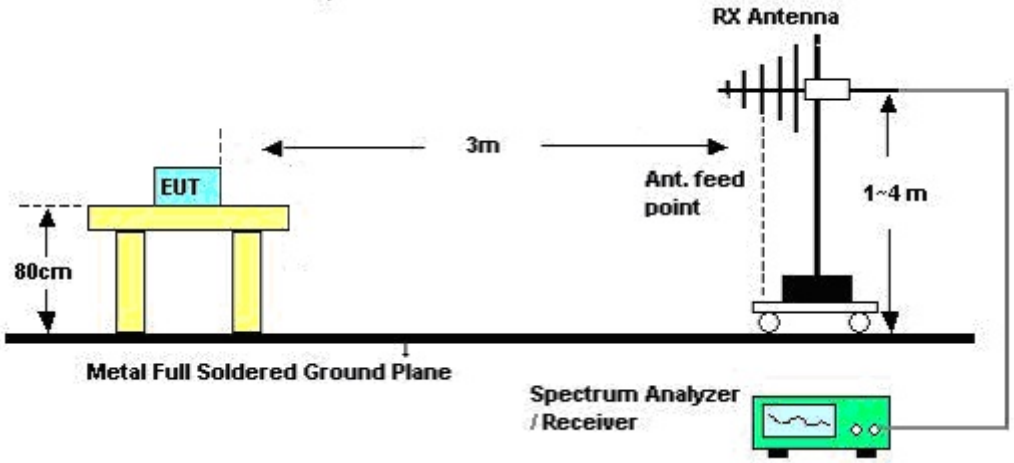
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

4.5.4. Test Setup Layout

For radiated emissions below 1GHz



For radiated emissions above 1GHz



4.5.5. Test Deviation

There is no deviation with the original standard.

4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.5.7. Results of Radiated Emissions (9kHz~30MHz)

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	Normal Link
Test Date	Apr. 26, 2012		

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

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

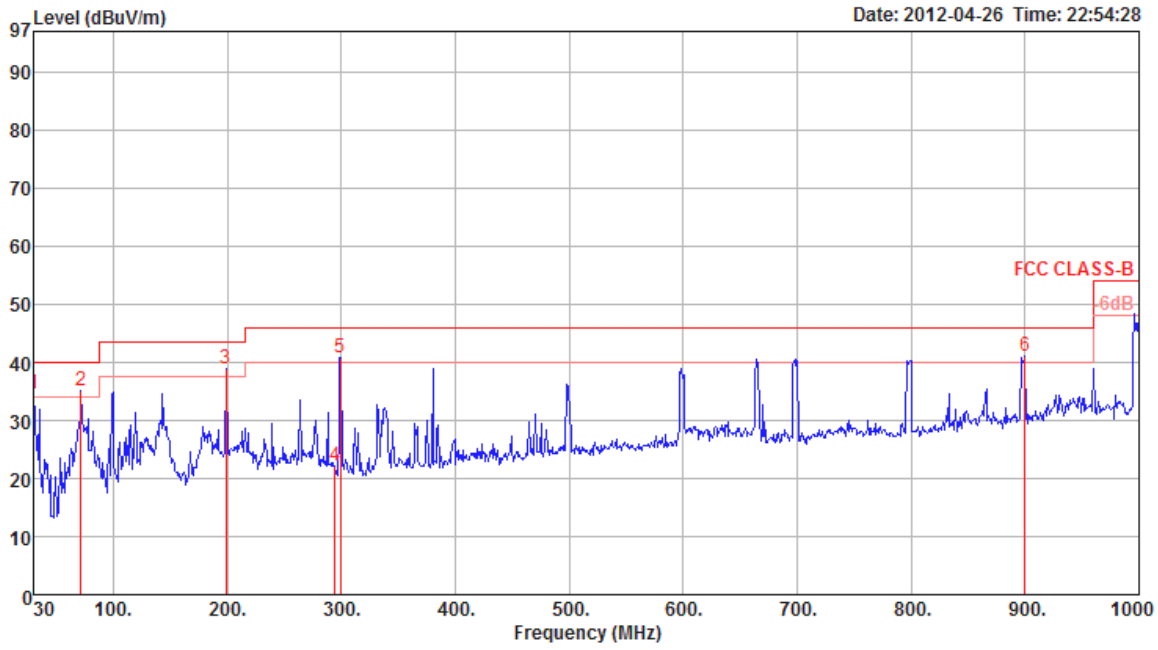
Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

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

4.5.8. Results of Radiated Emissions (30MHz~1GHz)

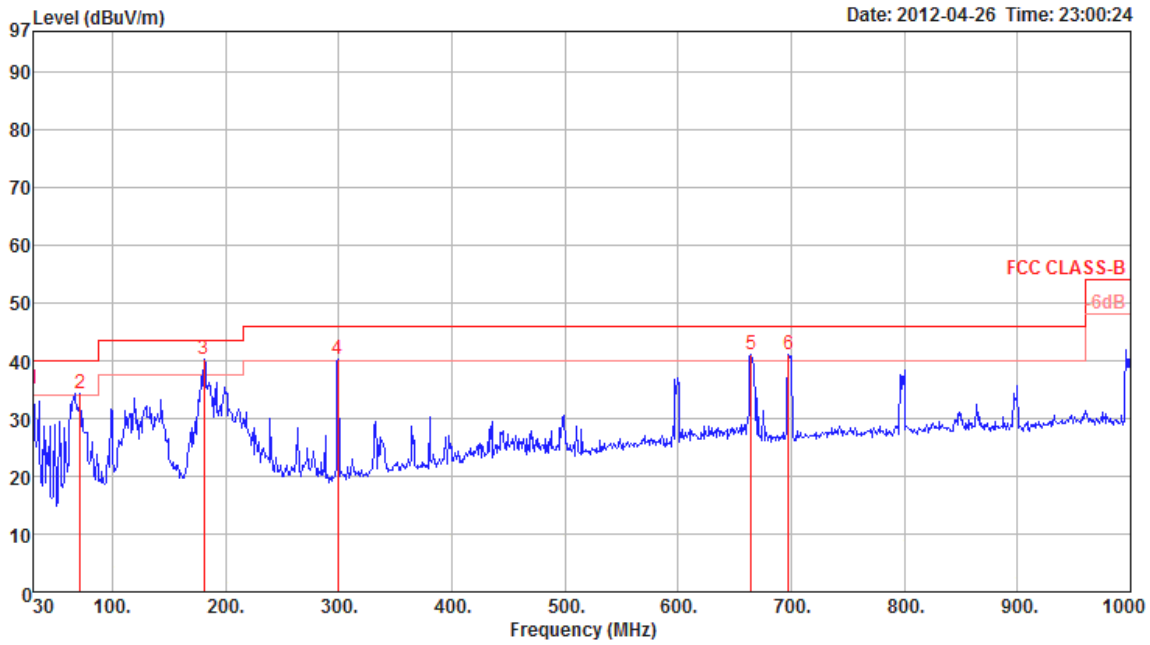
Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	Normal Link / Mode 1 (Module + Ant. 3 Panel antenna / 14dBi)

Horizontal



		Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	!	30.00	34.49	40.00	-5.51	44.21	0.83	27.80	17.25	0	400	Peak	HORIZONTAL
2	!	71.71	35.04	40.00	-4.96	55.34	1.28	27.71	6.13	0	400	Peak	HORIZONTAL
3	p	198.78	38.96	43.50	-4.54	54.33	2.09	27.11	9.65	0	400	Peak	HORIZONTAL
4		294.81	22.24	46.00	-23.76	33.18	2.52	26.91	13.45	0	400	Peak	HORIZONTAL
5	!	299.66	40.79	46.00	-5.21	51.60	2.51	26.90	13.58	0	400	Peak	HORIZONTAL
6	!	900.09	40.97	46.00	-5.03	42.74	4.60	27.40	21.03	0	400	Peak	HORIZONTAL

Vertical



		Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	!	30.00	35.04	40.00	-4.96	44.76	0.83	27.80	17.25	0	100	Peak	VERTICAL
2	!	71.71	34.38	40.00	-5.62	54.68	1.28	27.71	6.13	0	100	Peak	VERTICAL
3	p	181.32	40.19	43.50	-3.31	56.35	2.01	27.19	9.02	0	100	Peak	VERTICAL
4	!	299.66	40.30	46.00	-5.70	51.11	2.51	26.90	13.58	0	100	Peak	VERTICAL
5	!	664.38	41.08	46.00	-4.92	45.78	3.98	28.04	19.36	0	100	Peak	VERTICAL
6	!	697.36	41.17	46.00	-4.83	45.10	4.15	28.00	19.92	0	100	Peak	VERTICAL

Note:

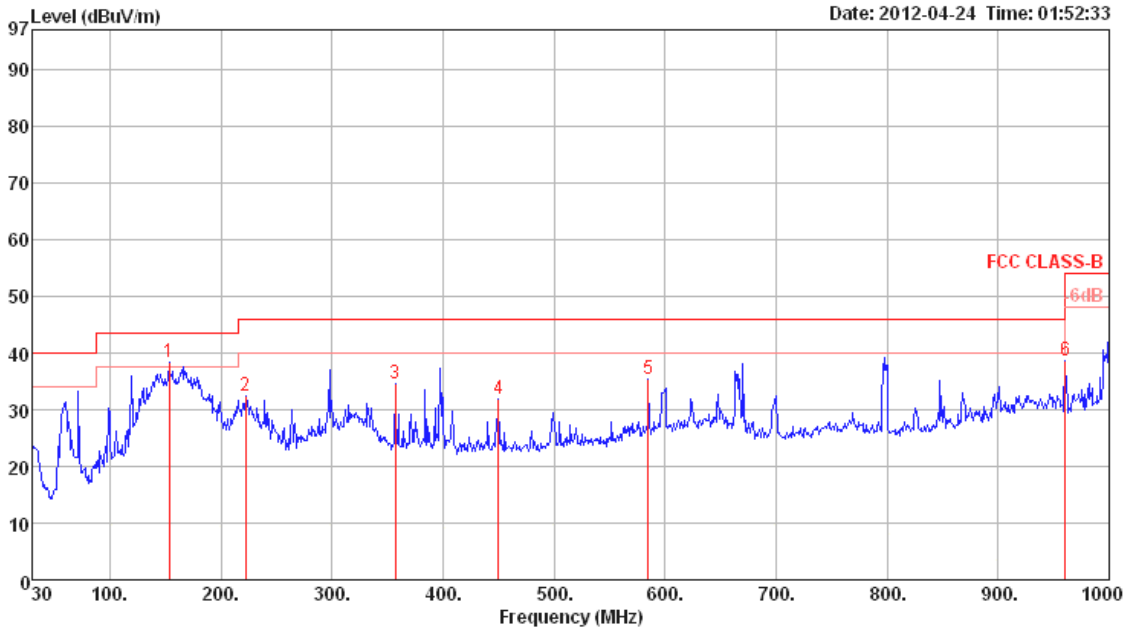
The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

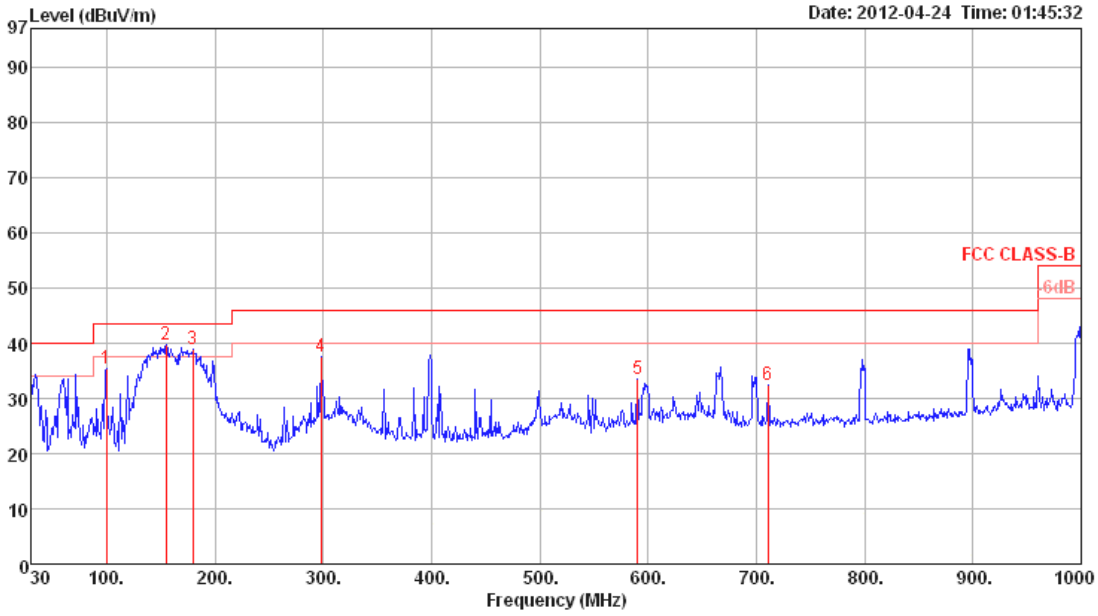
Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	Normal Link / Mode 2 (Module + Ant. 8 Panel antenna / 10.5dBi)

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	153.19	38.34	43.50	-5.16	52.30	1.47	11.90	27.33	Peak	100	0	HORIZONTAL
2	222.06	32.45	46.00	-13.55	47.01	1.79	10.70	27.05	Peak	100	0	HORIZONTAL
3	356.89	34.45	46.00	-11.55	44.62	2.21	14.91	27.29	Peak	100	0	HORIZONTAL
4	450.01	31.93	46.00	-14.07	40.34	2.60	16.84	27.85	Peak	100	0	HORIZONTAL
5	584.84	35.37	46.00	-10.63	42.01	2.87	18.59	28.10	Peak	100	0	HORIZONTAL
6	960.23	38.52	54.00	-15.48	41.07	3.62	20.99	27.16	Peak	100	0	HORIZONTAL

Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	99.84	35.32	43.50	-8.18	50.73	1.20	10.99	27.60	Peak	400	0	VERTICAL
2	155.13	39.59	43.50	-3.91	53.49	1.48	11.94	27.32	Peak	400	0	VERTICAL
3	179.38	38.85	43.50	-4.65	51.31	1.60	13.14	27.20	Peak	400	0	VERTICAL
4	297.72	37.63	46.00	-8.37	49.11	2.09	13.34	26.91	Peak	400	0	VERTICAL
5	590.66	33.43	46.00	-12.57	39.99	2.88	18.66	28.10	Peak	400	0	VERTICAL
6	710.94	32.29	46.00	-13.71	37.74	3.34	19.16	27.95	Peak	400	0	VERTICAL

Note:

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

4.5.9. Results for Radiated Emissions (1GHz~10th Harmonic)

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 1 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (1TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 p	4821.92	43.67	74.00	-30.33	42.39	4.08	35.26	32.46	213	100	Peak	HORIZONTAL
2 a	4824.58	30.47	54.00	-23.53	29.19	4.08	35.26	32.46	213	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 a	4821.14	30.36	54.00	-23.64	29.08	4.08	35.26	32.46	156	100	Average	VERTICAL
2 p	4821.64	43.93	74.00	-30.07	42.65	4.08	35.26	32.46	156	100	Peak	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 6 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (1TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4875.06	43.64	74.00	-30.36	42.12	4.11	35.15	32.56	107	100	Peak	HORIZONTAL
2	4878.72	30.78	54.00	-23.22	29.26	4.11	35.15	32.56	107	100	Average	HORIZONTAL
3 a	7311.60	35.91	54.00	-18.09	28.87	5.30	34.93	36.67	218	100	Average	HORIZONTAL
4 p	7313.34	48.56	74.00	-25.44	41.52	5.30	34.93	36.67	218	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4875.70	30.83	54.00	-23.17	29.31	4.11	35.15	32.56	229	100	Average	VERTICAL
2	4877.40	43.72	74.00	-30.28	42.20	4.11	35.15	32.56	229	100	Peak	VERTICAL
3 p	7306.28	48.80	74.00	-25.20	41.77	5.30	34.94	36.67	69	100	Peak	VERTICAL
4 a	7312.10	35.97	54.00	-18.03	28.93	5.30	34.93	36.67	69	100	Average	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch11 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (1TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4920.26	30.62	54.00	-23.38	28.86	4.13	35.03	32.66	203	100	Average	HORIZONTAL
2	4928.80	43.59	74.00	-30.41	41.83	4.13	35.03	32.66	203	100	Peak	HORIZONTAL
3 p	7382.10	49.35	74.00	-24.65	42.15	5.34	34.90	36.76	302	100	Peak	HORIZONTAL
4 a	7390.98	36.15	54.00	-17.85	28.91	5.35	34.89	36.78	302	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4921.62	30.64	54.00	-23.36	28.88	4.13	35.03	32.66	157	100	Average	VERTICAL
2	4927.06	43.29	74.00	-30.71	41.53	4.13	35.03	32.66	157	100	Peak	VERTICAL
3 a	7382.30	36.19	54.00	-17.81	28.99	5.34	34.90	36.76	188	100	Average	VERTICAL
4 p	7383.46	49.27	74.00	-24.73	42.07	5.34	34.90	36.76	188	100	Peak	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 1 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (2TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4823.81	41.41	74.00	-32.59	40.07	3.31	33.06	35.03	Peak	100	178	HORIZONTAL
2	4825.17	28.69	54.00	-25.31	27.35	3.31	33.06	35.03	Average	100	178	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4821.86	28.83	54.00	-25.17	27.49	3.31	33.06	35.03	Average	100	252	VERTICAL
2	4822.98	42.23	74.00	-31.77	40.89	3.31	33.06	35.03	Peak	100	252	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 6 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (2TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4873.82	42.65	74.00	-31.35	41.19	3.33	33.16	35.03	Peak	100	286	HORIZONTAL
2	4874.88	28.65	54.00	-25.35	27.19	3.33	33.16	35.03	Average	100	286	HORIZONTAL
3	7311.39	32.93	54.00	-21.07	28.31	4.06	35.96	35.40	Average	100	183	HORIZONTAL
4	7311.88	46.13	74.00	-27.87	41.51	4.06	35.96	35.40	Peak	100	183	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4873.46	28.90	54.00	-25.10	27.44	3.33	33.16	35.03	Average	100	128	VERTICAL
2	4874.11	41.92	74.00	-32.08	40.46	3.33	33.16	35.03	Peak	100	128	VERTICAL
3	7311.40	46.38	74.00	-27.62	41.76	4.06	35.96	35.40	Peak	100	213	VERTICAL
4	7311.82	33.12	54.00	-20.88	28.50	4.06	35.96	35.40	Average	100	213	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch11 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (2TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4924.30	41.33	74.00	-32.67	39.73	3.35	33.26	35.01	Peak	100	255	HORIZONTAL
2	4924.94	28.60	54.00	-25.40	27.00	3.35	33.26	35.01	Average	100	255	HORIZONTAL
3	7386.31	45.50	74.00	-28.50	40.75	4.06	36.09	35.40	Peak	100	197	HORIZONTAL
4	7386.69	32.90	54.00	-21.10	28.15	4.06	36.09	35.40	Average	100	197	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4923.72	41.39	74.00	-32.61	39.79	3.35	33.26	35.01	Peak	100	120	VERTICAL
2	4924.82	28.62	54.00	-25.38	27.02	3.35	33.26	35.01	Average	100	120	VERTICAL
3	7386.25	32.94	54.00	-21.06	28.19	4.06	36.09	35.40	Average	100	91	VERTICAL
4	7386.36	45.89	74.00	-28.11	41.14	4.06	36.09	35.40	Peak	100	91	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 1 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (2TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4823.71	28.62	54.00	-25.38	27.28	3.31	33.06	35.03	Average	100	334	HORIZONTAL
2	4824.97	41.02	74.00	-32.98	39.68	3.31	33.06	35.03	Peak	100	334	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4823.34	28.63	54.00	-25.37	27.29	3.31	33.06	35.03	Average	100	153	VERTICAL
2	4823.82	42.52	74.00	-31.48	41.18	3.31	33.06	35.03	Peak	100	153	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 6 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (2TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4873.28	28.69	54.00	-25.31	27.23	3.33	33.16	35.03	Average	100	104	HORIZONTAL
2	4874.13	41.57	74.00	-32.43	40.11	3.33	33.16	35.03	Peak	100	104	HORIZONTAL
3	7310.40	32.95	54.00	-21.05	28.33	4.06	35.96	35.40	Average	100	184	HORIZONTAL
4	7310.81	45.66	74.00	-28.34	41.04	4.06	35.96	35.40	Peak	100	184	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4874.06	42.69	74.00	-31.31	41.23	3.33	33.16	35.03	Peak	100	163	VERTICAL
2	4874.72	28.95	54.00	-25.05	27.49	3.33	33.16	35.03	Average	100	163	VERTICAL
3	7311.13	46.19	74.00	-27.81	41.57	4.06	35.96	35.40	Peak	100	218	VERTICAL
4	7311.41	33.03	54.00	-20.97	28.41	4.06	35.96	35.40	Average	100	218	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch11 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (2TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4924.23	42.67	74.00	-31.33	41.07	3.35	33.26	35.01	Peak	100	142	HORIZONTAL
2	4924.81	28.52	54.00	-25.48	26.92	3.35	33.26	35.01	Average	100	142	HORIZONTAL
3	7385.31	45.99	74.00	-28.01	41.24	4.06	36.09	35.40	Peak	100	233	HORIZONTAL
4	7386.94	32.99	54.00	-21.01	28.24	4.06	36.09	35.40	Average	100	233	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4923.04	28.62	54.00	-25.38	27.02	3.35	33.26	35.01	Average	100	263	VERTICAL
2	4924.64	42.07	74.00	-31.93	40.47	3.35	33.26	35.01	Peak	100	263	VERTICAL
3	7385.93	45.54	74.00	-28.46	40.79	4.06	36.09	35.40	Peak	100	159	VERTICAL
4	7386.80	33.04	54.00	-20.96	28.29	4.06	36.09	35.40	Average	100	159	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 1 / Chain 1+ Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (3TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4824.45	41.65	74.00	-32.35	40.31	3.31	33.06	35.03	Peak	100	203	HORIZONTAL
2	4824.52	27.91	54.00	-26.09	26.57	3.31	33.06	35.03	Average	100	203	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4823.83	41.65	74.00	-32.35	40.31	3.31	33.06	35.03	Peak	100	325	VERTICAL
2	4824.76	27.91	54.00	-26.09	26.57	3.31	33.06	35.03	Average	100	325	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch 6 / Chain 1+ Chain 2+ Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (3TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4873.39	41.65	74.00	-32.35	40.19	3.33	33.16	35.03	Peak	100	144	HORIZONTAL
2	4874.72	27.88	54.00	-26.12	26.42	3.33	33.16	35.03	Average	100	144	HORIZONTAL
3	7310.64	44.75	74.00	-29.25	40.13	4.06	35.96	35.40	Peak	100	252	HORIZONTAL
4	7311.16	31.06	54.00	-22.94	26.44	4.06	35.96	35.40	Average	100	252	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4874.00	41.60	74.00	-32.40	40.14	3.33	33.16	35.03	Peak	100	210	VERTICAL
2	4874.88	27.78	54.00	-26.22	26.32	3.33	33.16	35.03	Average	100	210	VERTICAL
3	7310.88	31.06	54.00	-22.94	26.44	4.06	35.96	35.40	Average	100	321	VERTICAL
4	7311.62	44.94	74.00	-29.06	40.32	4.06	35.96	35.40	Peak	100	321	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 20MHz Ch11 / Chain 1+ Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (3TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4923.52	42.58	74.00	-31.42	40.98	3.35	33.26	35.01	Peak	100	180	HORIZONTAL
2	4924.92	28.10	54.00	-25.90	26.50	3.35	33.26	35.01	Average	100	180	HORIZONTAL
3	7385.61	45.91	74.00	-28.09	41.16	4.06	36.09	35.40	Peak	100	258	HORIZONTAL
4	7386.59	32.02	54.00	-21.98	27.27	4.06	36.09	35.40	Average	100	258	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4924.38	42.11	74.00	-31.89	40.51	3.35	33.26	35.01	Peak	100	122	VERTICAL
2	4924.99	28.06	54.00	-25.94	26.46	3.35	33.26	35.01	Average	100	122	VERTICAL
3	7386.66	32.04	54.00	-21.96	27.29	4.06	36.09	35.40	Average	100	298	VERTICAL
4	7386.95	47.38	74.00	-26.62	42.63	4.06	36.09	35.40	Peak	100	298	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 1 / Chain 1+ Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (3TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4823.46	41.72	74.00	-32.28	40.38	3.31	33.06	35.03	Peak	100	117	HORIZONTAL
2	4824.65	27.90	54.00	-26.10	26.56	3.31	33.06	35.03	Average	100	117	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4823.09	42.03	74.00	-31.97	40.69	3.31	33.06	35.03	Peak	100	179	VERTICAL
2	4824.08	28.00	54.00	-26.00	26.66	3.31	33.06	35.03	Average	100	179	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch 6 / Chain 1+ Chain 2+ Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (3TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4874.47	42.67	74.00	-31.33	41.21	3.33	33.16	35.03	Peak	100	235	HORIZONTAL
2	4874.52	27.60	54.00	-26.40	26.14	3.33	33.16	35.03	Average	100	235	HORIZONTAL
3	7310.04	31.02	54.00	-22.98	26.40	4.06	35.96	35.40	Average	100	211	HORIZONTAL
4	7311.73	44.90	74.00	-29.10	40.28	4.06	35.96	35.40	Peak	100	211	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4874.79	44.64	74.00	-29.36	43.18	3.33	33.16	35.03	Peak	100	289	VERTICAL
2	4874.92	30.52	54.00	-23.48	29.06	3.33	33.16	35.03	Average	100	289	VERTICAL
3	7310.39	45.88	74.00	-28.12	41.26	4.06	35.96	35.40	Peak	100	317	VERTICAL
4	7311.16	31.10	54.00	-22.90	26.48	4.06	35.96	35.40	Average	100	317	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 20MHz Ch11 / Chain 1+ Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (3TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4924.18	42.36	74.00	-31.64	40.76	3.35	33.26	35.01	Peak	100	69	HORIZONTAL
2	4924.45	28.07	54.00	-25.93	26.47	3.35	33.26	35.01	Average	100	69	HORIZONTAL
3	7385.36	45.58	74.00	-28.42	40.83	4.06	36.09	35.40	Peak	100	160	HORIZONTAL
4	7386.50	31.92	54.00	-22.08	27.17	4.06	36.09	35.40	Average	100	160	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4923.18	28.04	54.00	-25.96	26.44	3.35	33.26	35.01	Average	100	187	VERTICAL
2	4924.17	42.08	74.00	-31.92	40.48	3.35	33.26	35.01	Peak	100	187	VERTICAL
3	7385.45	31.92	54.00	-22.08	27.17	4.06	36.09	35.40	Average	100	108	VERTICAL
4	7385.68	46.17	74.00	-27.83	41.42	4.06	36.09	35.40	Peak	100	108	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 3 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (1TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 a	4839.38	30.49	54.00	-23.51	29.11	4.09	35.20	32.49	158	100	Average	HORIZONTAL
2 p	4842.44	42.99	74.00	-31.01	41.61	4.09	35.20	32.49	158	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 a	4841.68	30.30	54.00	-23.70	28.92	4.09	35.20	32.49	216	100	Average	VERTICAL
2 p	4842.28	43.03	74.00	-30.97	41.65	4.09	35.20	32.49	216	100	Peak	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 6 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (1TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4874.59	43.80	74.00	-30.20	42.28	4.11	35.15	32.56	79	100	Peak	HORIZONTAL
2	4875.29	30.64	54.00	-23.36	29.12	4.11	35.15	32.56	79	100	Average	HORIZONTAL
3 p	7310.72	48.92	74.00	-25.08	41.89	5.30	34.94	36.67	213	100	Peak	HORIZONTAL
4 a	7312.16	35.97	54.00	-18.03	28.93	5.30	34.93	36.67	213	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4872.69	43.55	74.00	-30.45	42.03	4.11	35.15	32.56	238	100	Peak	VERTICAL
2	4874.31	30.65	54.00	-23.35	29.13	4.11	35.15	32.56	238	100	Average	VERTICAL
3 a	7310.52	35.82	54.00	-18.18	28.79	5.30	34.94	36.67	141	100	Average	VERTICAL
4 p	7312.06	49.32	74.00	-24.68	42.28	5.30	34.93	36.67	141	100	Peak	VERTICAL

Temperature	25℃	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 9 / Chain 1
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (1TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4903.04	30.98	54.00	-23.02	29.32	4.12	35.09	32.63	296	100	Average	HORIZONTAL
2	4903.92	44.13	74.00	-29.87	42.47	4.12	35.09	32.63	296	100	Peak	HORIZONTAL
3 a	7856.04	34.72	54.00	-19.28	27.32	5.68	35.18	36.90	213	100	Average	HORIZONTAL
4 p	7856.11	45.40	74.00	-28.60	38.00	5.68	35.18	36.90	213	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4905.84	30.96	54.00	-23.04	29.30	4.12	35.09	32.63	96	100	Average	VERTICAL
2	4905.88	44.27	74.00	-29.73	42.61	4.12	35.09	32.63	96	100	Peak	VERTICAL
3 a	7356.01	34.76	54.00	-19.24	27.62	5.33	34.92	36.73	112	100	Average	VERTICAL
4 p	7356.88	48.27	74.00	-25.73	41.13	5.33	34.92	36.73	112	100	Peak	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 3 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (2TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4844.37	29.03	54.00	-24.97	27.65	3.32	33.09	35.03	Average	100	173	HORIZONTAL
2	4844.64	41.70	74.00	-32.30	40.32	3.32	33.09	35.03	Peak	100	173	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4841.84	28.92	54.00	-25.08	27.54	3.32	33.09	35.03	Average	100	243	VERTICAL
2	4843.02	41.67	74.00	-32.33	40.29	3.32	33.09	35.03	Peak	100	243	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 6 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (2TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4876.06	29.17	54.00	-24.83	27.71	3.33	33.16	35.03	Average	100	190	HORIZONTAL
2	4876.11	41.66	74.00	-32.34	40.20	3.33	33.16	35.03	Peak	100	190	HORIZONTAL
3	7309.69	47.33	74.00	-26.67	42.71	4.06	35.96	35.40	Peak	100	149	HORIZONTAL
4	7313.01	33.14	54.00	-20.86	28.52	4.06	35.96	35.40	Average	100	149	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4873.96	28.83	54.00	-25.17	27.37	3.33	33.16	35.03	Average	100	90	VERTICAL
2	4875.02	42.97	74.00	-31.03	41.51	3.33	33.16	35.03	Peak	100	90	VERTICAL
3	7309.01	33.01	54.00	-20.99	28.39	4.06	35.96	35.40	Average	100	310	VERTICAL
4	7313.12	46.18	74.00	-27.82	41.56	4.06	35.96	35.40	Peak	100	310	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 9 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (2TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4905.01	28.60	54.00	-25.40	27.05	3.34	33.23	35.02	Average	100	241	HORIZONTAL
2	4906.12	41.78	74.00	-32.22	40.23	3.34	33.23	35.02	Peak	100	241	HORIZONTAL
3	7355.25	33.09	54.00	-20.91	28.41	4.06	36.02	35.40	Average	100	172	HORIZONTAL
4	7356.20	46.38	74.00	-27.62	41.70	4.06	36.02	35.40	Peak	100	172	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4902.12	28.64	54.00	-25.36	27.13	3.34	33.19	35.02	Average	100	133	VERTICAL
2	4905.07	42.16	74.00	-31.84	40.61	3.34	33.23	35.02	Peak	100	133	VERTICAL
3	7355.13	33.00	54.00	-21.00	28.32	4.06	36.02	35.40	Average	100	37	VERTICAL
4	7357.24	45.94	74.00	-28.06	41.26	4.06	36.02	35.40	Peak	100	37	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / Chain 1+ Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (2TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4841.86	41.75	74.00	-32.25	40.37	3.32	33.09	35.03	Peak	100	288	HORIZONTAL
2	4845.36	28.99	54.00	-25.01	27.61	3.32	33.09	35.03	Average	100	288	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4844.41	29.10	54.00	-24.90	27.72	3.32	33.09	35.03	Average	100	144	VERTICAL
2	4844.72	41.80	74.00	-32.20	40.42	3.32	33.09	35.03	Peak	100	144	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (2TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4873.78	41.92	74.00	-32.08	40.46	3.33	33.16	35.03	Peak	100	231	HORIZONTAL
2	4875.73	29.01	54.00	-24.99	27.55	3.33	33.16	35.03	Average	100	231	HORIZONTAL
3	7308.71	33.16	54.00	-20.84	28.54	4.06	35.96	35.40	Average	100	187	HORIZONTAL
4	7312.45	46.31	74.00	-27.69	41.69	4.06	35.96	35.40	Peak	100	187	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4875.06	29.05	54.00	-24.95	27.59	3.33	33.16	35.03	Average	100	120	VERTICAL
2	4875.27	42.58	74.00	-31.42	41.12	3.33	33.16	35.03	Peak	100	120	VERTICAL
3	7308.57	33.14	54.00	-20.86	28.52	4.06	35.96	35.40	Average	100	214	VERTICAL
4	7311.33	46.32	74.00	-27.68	41.70	4.06	35.96	35.40	Peak	100	214	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / Chain 1 + Chain 2
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (2TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4906.00	29.15	54.00	-24.85	27.60	3.34	33.23	35.02	Average	100	305	HORIZONTAL
2	4907.08	41.61	74.00	-32.39	40.06	3.34	33.23	35.02	Peak	100	305	HORIZONTAL
3	7355.20	46.54	74.00	-27.46	41.86	4.06	36.02	35.40	Peak	100	185	HORIZONTAL
4	7356.08	32.74	54.00	-21.26	28.06	4.06	36.02	35.40	Average	100	185	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4904.20	29.22	54.00	-24.78	27.71	3.34	33.19	35.02	Average	100	112	VERTICAL
2	4905.56	42.82	74.00	-31.18	41.27	3.34	33.23	35.02	Peak	100	112	VERTICAL
3	7355.52	32.95	54.00	-21.05	28.27	4.06	36.02	35.40	Average	100	171	VERTICAL
4	7360.80	46.60	74.00	-27.40	41.88	4.06	36.06	35.40	Peak	100	171	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 3 / Chain 1+ Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (3TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4843.59	41.79	74.00	-32.21	40.41	3.32	33.09	35.03	Peak	100	151	HORIZONTAL
2	4844.03	27.80	54.00	-26.20	26.42	3.32	33.09	35.03	Average	100	151	HORIZONTAL
3	7265.80	31.44	54.00	-22.56	26.93	4.06	35.85	35.40	Average	100	82	HORIZONTAL
4	7266.92	45.65	74.00	-28.35	41.14	4.06	35.85	35.40	Peak	100	82	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4843.21	27.88	54.00	-26.12	26.50	3.32	33.09	35.03	Average	100	224	VERTICAL
2	4844.27	41.47	74.00	-32.53	40.09	3.32	33.09	35.03	Peak	100	224	VERTICAL
3	7265.87	31.46	54.00	-22.54	26.95	4.06	35.85	35.40	Average	100	160	VERTICAL
4	7266.74	46.62	74.00	-27.38	42.11	4.06	35.85	35.40	Peak	100	160	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 6 / Chain 1 + Chain 2 +Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (3TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4873.86	41.83	74.00	-32.17	40.37	3.33	33.16	35.03	Peak	100	156	HORIZONTAL
2	4874.46	27.60	54.00	-26.40	26.14	3.33	33.16	35.03	Average	100	156	HORIZONTAL
3	7310.79	31.02	54.00	-22.98	26.40	4.06	35.96	35.40	Average	100	241	HORIZONTAL
4	7311.10	44.85	74.00	-29.15	40.23	4.06	35.96	35.40	Peak	100	241	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4873.56	27.69	54.00	-26.31	26.23	3.33	33.16	35.03	Average	100	196	VERTICAL
2	4874.59	41.89	74.00	-32.11	40.43	3.33	33.16	35.03	Peak	100	196	VERTICAL
3	7310.87	31.02	54.00	-22.98	26.40	4.06	35.96	35.40	Average	100	294	VERTICAL
4	7311.74	44.44	74.00	-29.56	39.82	4.06	35.96	35.40	Peak	100	294	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS0 40MHz Ch 9 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (3TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4903.96	28.17	54.00	-25.83	26.66	3.34	33.19	35.02	Average	100	126	HORIZONTAL
2	4904.46	41.81	74.00	-32.19	40.30	3.34	33.19	35.02	Peak	100	126	HORIZONTAL
3	7355.34	45.76	74.00	-28.24	41.08	4.06	36.02	35.40	Peak	100	263	HORIZONTAL
4	7355.70	31.69	54.00	-22.31	27.01	4.06	36.02	35.40	Average	100	263	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4904.18	28.20	54.00	-25.80	26.69	3.34	33.19	35.02	Average	100	318	VERTICAL
2	4904.59	42.00	74.00	-32.00	40.49	3.34	33.19	35.02	Peak	100	318	VERTICAL
3	7355.36	45.26	74.00	-28.74	40.58	4.06	36.02	35.40	Peak	100	211	VERTICAL
4	7355.73	31.67	54.00	-22.33	26.99	4.06	36.02	35.40	Average	100	211	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / Chain 1+ Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (3TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4843.73	27.80	54.00	-26.20	26.42	3.32	33.09	35.03	Average	100	215	HORIZONTAL
2	4844.54	41.56	74.00	-32.44	40.18	3.32	33.09	35.03	Peak	100	215	HORIZONTAL
3	7265.53	45.23	74.00	-28.77	40.72	4.06	35.85	35.40	Peak	100	110	HORIZONTAL
4	7265.59	31.40	54.00	-22.60	26.89	4.06	35.85	35.40	Average	100	110	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4843.68	27.83	54.00	-26.17	26.45	3.32	33.09	35.03	Average	100	110	VERTICAL
2	4844.59	41.93	74.00	-32.07	40.55	3.32	33.09	35.03	Peak	100	110	VERTICAL
3	7265.58	46.00	74.00	-28.00	41.49	4.06	35.85	35.40	Peak	100	233	VERTICAL
4	7265.84	31.44	54.00	-22.56	26.93	4.06	35.85	35.40	Average	100	233	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / Chain 1 + Chain 2 +Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (3TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4873.56	41.32	74.00	-32.68	39.86	3.33	33.16	35.03	Peak	100	211	HORIZONTAL
2	4874.96	27.62	54.00	-26.38	26.16	3.33	33.16	35.03	Average	100	211	HORIZONTAL
3	7310.51	44.98	74.00	-29.02	40.36	4.06	35.96	35.40	Peak	100	310	HORIZONTAL
4	7310.62	31.09	54.00	-22.91	26.47	4.06	35.96	35.40	Average	100	310	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4873.22	42.48	74.00	-31.52	41.02	3.33	33.16	35.03	Peak	100	156	VERTICAL
2	4874.97	27.67	54.00	-26.33	26.21	3.33	33.16	35.03	Average	100	156	VERTICAL
3	7310.64	45.25	74.00	-28.75	40.63	4.06	35.96	35.40	Peak	100	260	VERTICAL
4	7310.96	31.01	54.00	-22.99	26.39	4.06	35.96	35.40	Average	100	260	VERTICAL

Temperature	25°C	Humidity	65%
Test Engineer	Serway Lee	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / Chain 1 + Chain 2 + Chain 3
Test Date	Apr. 27, 2012	Test Mode	Mode 1 (Ant. 1 Dipole antenna / 9dBi) (3TX)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4903.28	28.19	54.00	-25.81	26.68	3.34	33.19	35.02	Average	100	182	HORIZONTAL
2	4903.42	41.85	74.00	-32.15	40.34	3.34	33.19	35.02	Peak	100	182	HORIZONTAL
3	7355.10	47.13	74.00	-26.87	42.45	4.06	36.02	35.40	Peak	100	85	HORIZONTAL
4	7355.73	31.70	54.00	-22.30	27.02	4.06	36.02	35.40	Average	100	85	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4903.55	42.01	74.00	-31.99	40.50	3.34	33.19	35.02	Peak	100	136	VERTICAL
2	4903.73	28.17	54.00	-25.83	26.66	3.34	33.19	35.02	Average	100	136	VERTICAL
3	7355.60	45.82	74.00	-28.18	41.14	4.06	36.02	35.40	Peak	100	207	VERTICAL
4	7355.82	31.67	54.00	-22.33	26.99	4.06	36.02	35.40	Average	100	207	VERTICAL