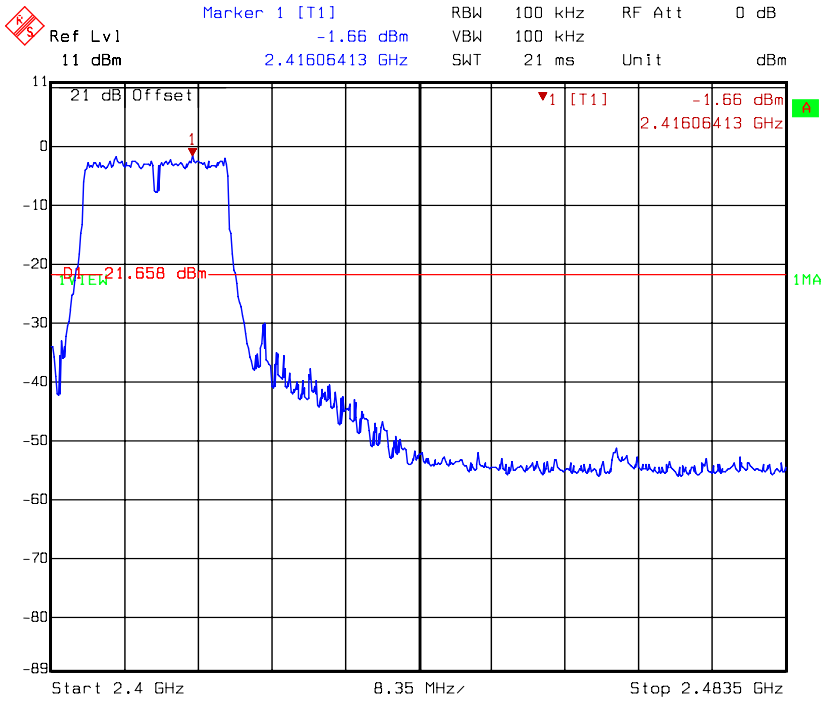
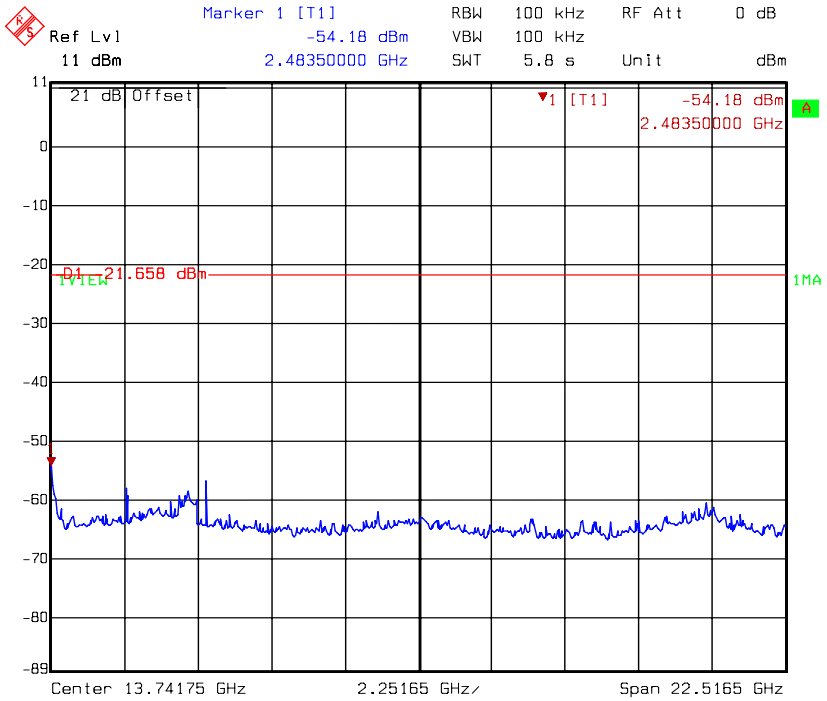
Chain 0: conducted spurious @ 802.11g mode channel 1 (2 of 3)



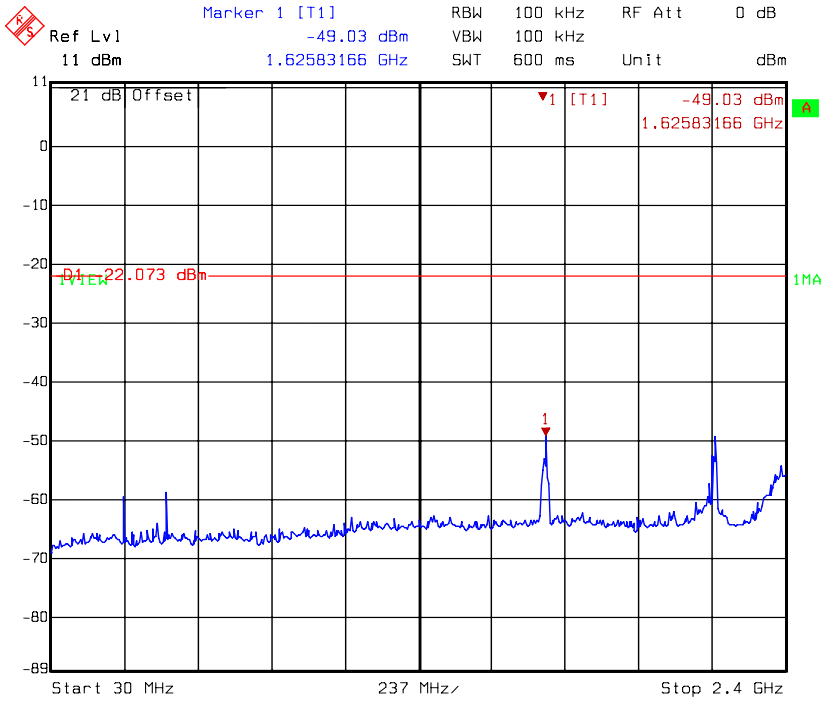
Title: Conductive-Spurious
Comment A: CH 1 at 802.11g mode 2400MHz~2483.5MHzDACO
Date: 24.NOV.2009 10:08:04

Chain 0: conducted spurious @ 802.11g mode channel 1 (3 of 3)



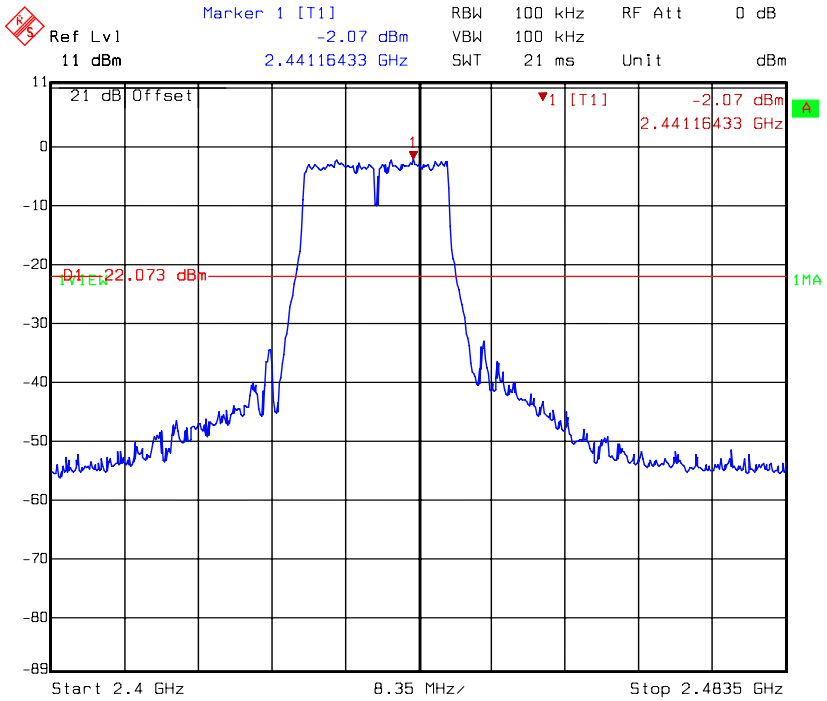
Title: Conductive-Spurious
Comment A: CH 1 at 802.11g mode 2483.5MHz~25000MHzDACO
Date: 24.NOV.2009 10:08:52

Chain 0: conducted spurious @ 802.11g mode channel 6 (1 of 3)



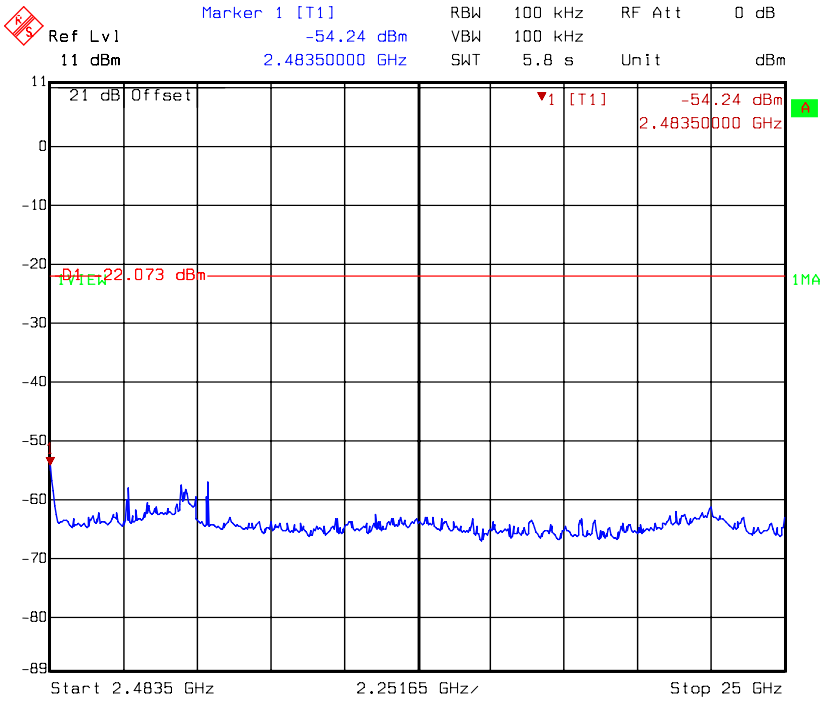
Title: Conductive-Spurious
Comment A: CH 6 at 802.11g mode 30MHz~2400MHzDACO
Date: 24.NOV.2009 10:37:43

Chain 0: conducted spurious @ 802.11g mode channel 6 (2 of 3)



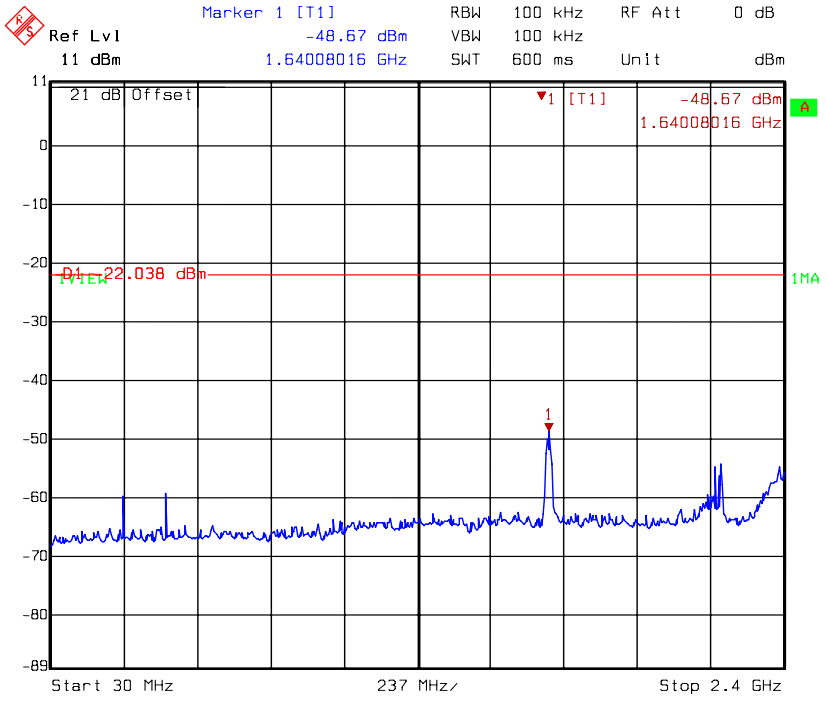
Title: Conductive-Spurious
Comment A: CH 6 at 802.11g mode 2400MHz~2483.5MHzDACO
Date: 24.NOV.2009 10:37:22

Chain 0: conducted spurious @ 802.11g mode channel 6 (3 of 3)



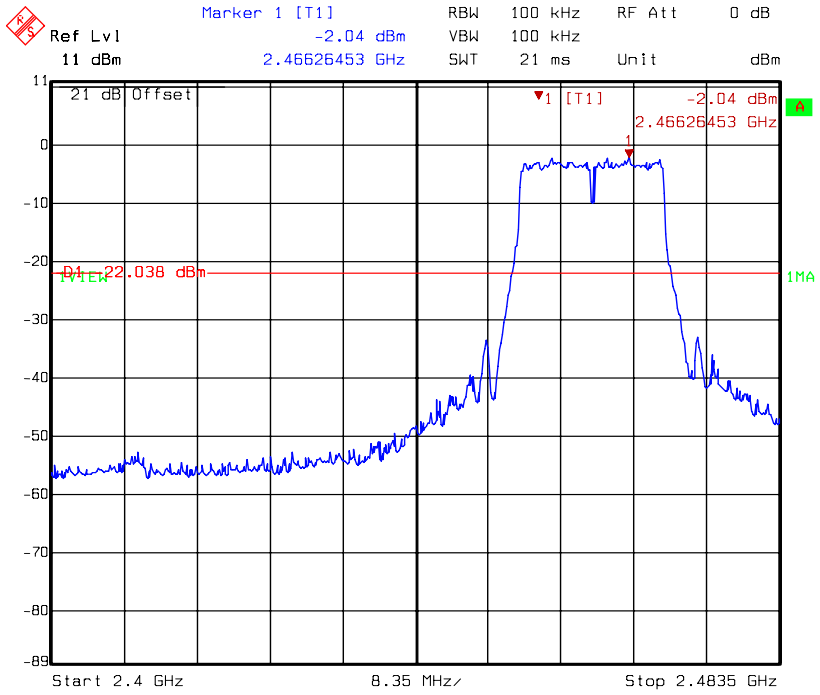
Title: Conductive-Spurious
Comment A: CH 6 at 802.11g mode 2483.5MHz~25000MHzDACO
Date: 24.NOV.2009 10:38:10

Chain 0: conducted spurious @ 802.11g mode channel 11 (1 of 3)



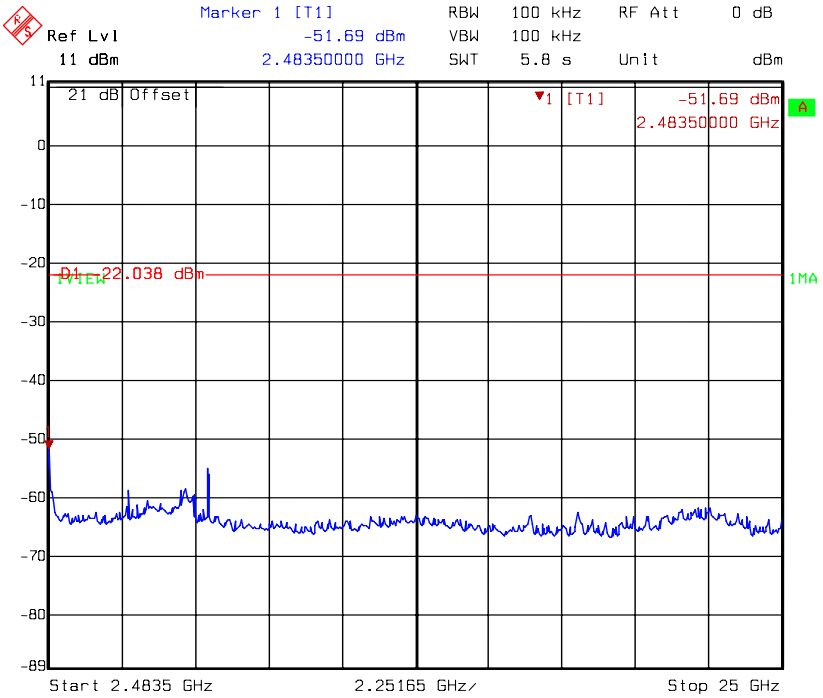
Title: Conductive-Spurious
Comment A: CH 11 at 802.11g mode 30MHz~2400MHzDACO
Date: 24.NOV.2009 10:41:29

Chain 0: conducted spurious @ 802.11g mode channel 11 (2 of 3)



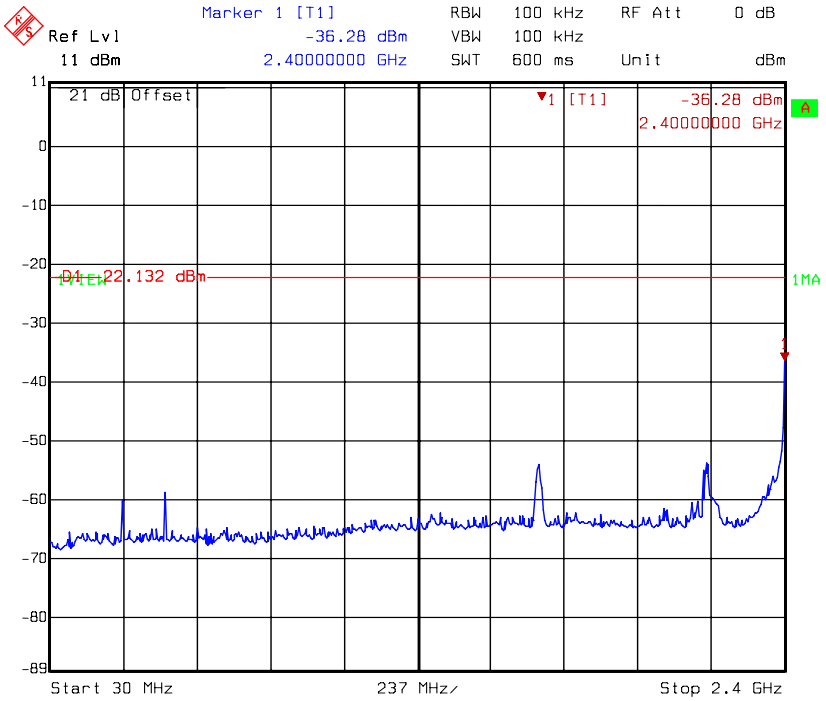
Title: Conductive-Spurious
Comment A: CH 11 at 802.11g mode 2400MHz~2483.5MHzDACO
Date: 24.NOV.2009 10:41:08

Chain 0: conducted spurious @ 802.11g mode channel 11 (3 of 3)



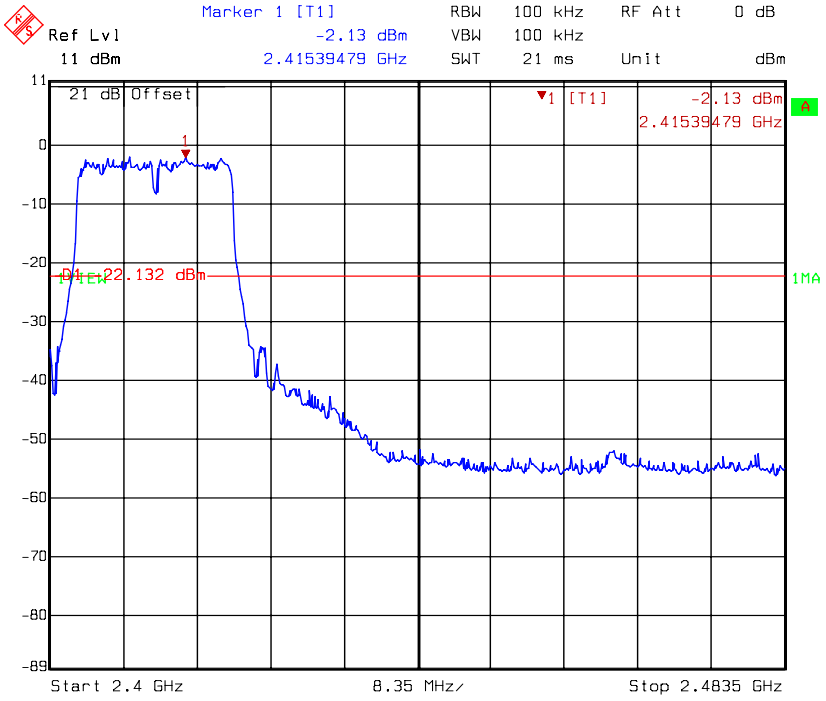
Title: Conductive-Spurious
Comment A: CH 11 at 802.11g mode 2483.5MHz~25000MHzDACO
Date: 24.NOV.2009 10:41:57

Chain 0: conducted spurious @ 802.11n (HT20) mode channel 1 (1 of 3)



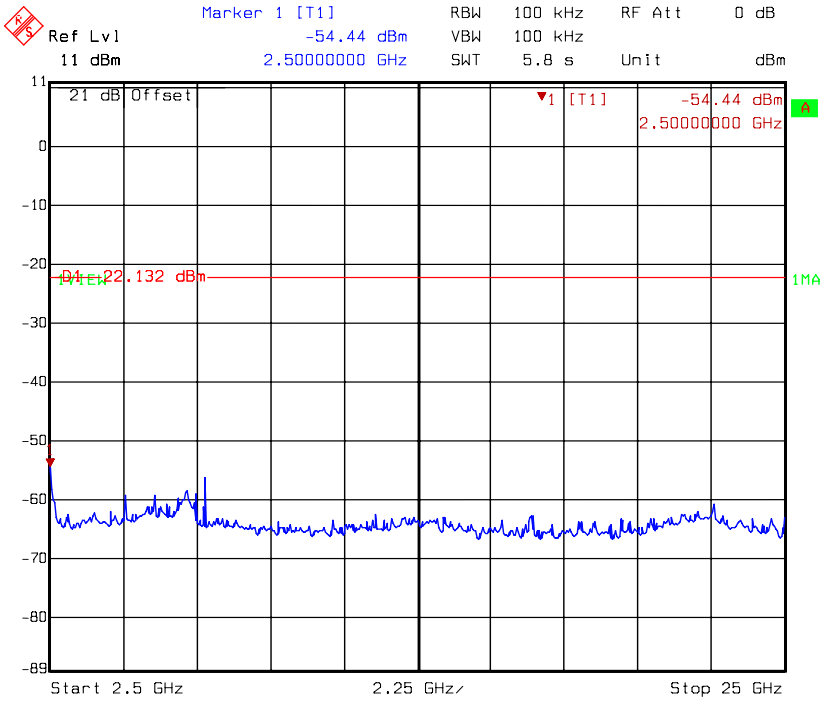
Title: Conductive-Spurious
Comment A: CH 1 at 802.11n 20MHz mode DACO
Date: 24.NOV.2009 10:45:22

Chain 0: conducted spurious @ 802.11n (HT20) mode channel 1 (2 of 3)



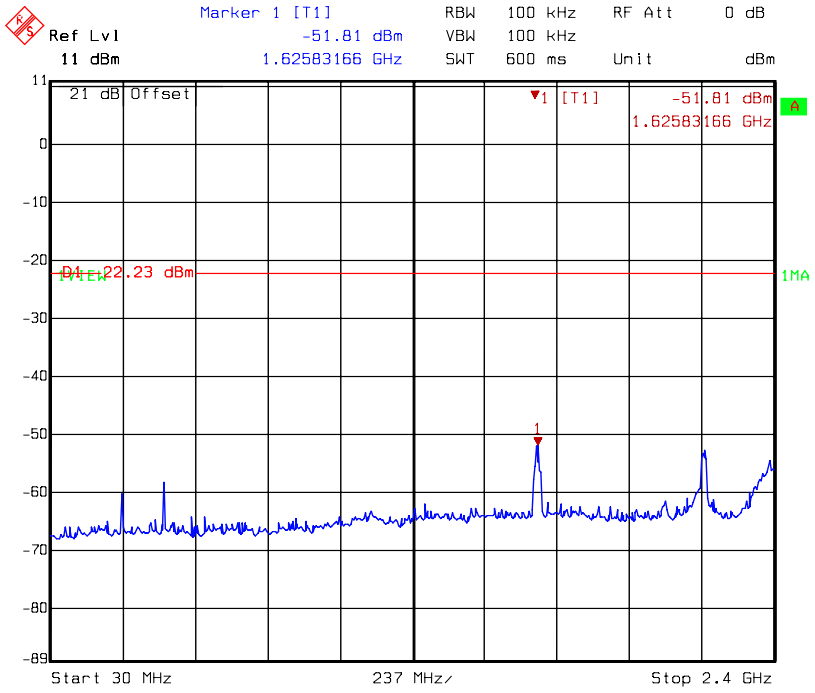
Title: Conductive-Spurious
Comment A: CH 1 at 802.11n 20MHz mode DACO
Date: 24.NOV.2009 10:45:01

Chain 0: conducted spurious @ 802.11n (HT20) mode channel 1 (3 of 3)



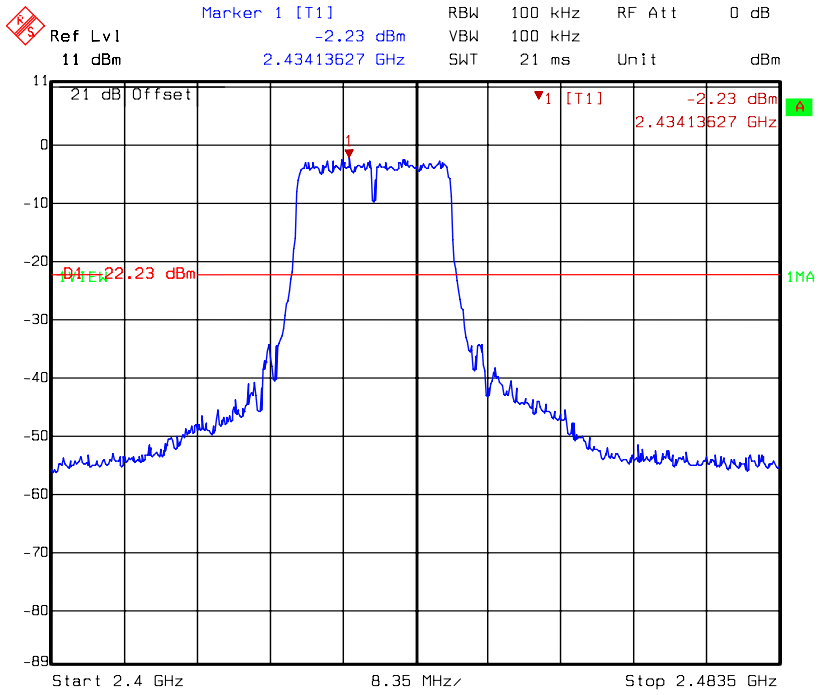
Title: Conductive-Spurious
Comment A: CH 1 at 802.11n 20MHz mode DACO
Date: 24.NOV.2009 10:45:49

Chain 0: conducted spurious @ 802.11n (HT20) mode channel 6 (1 of 3)



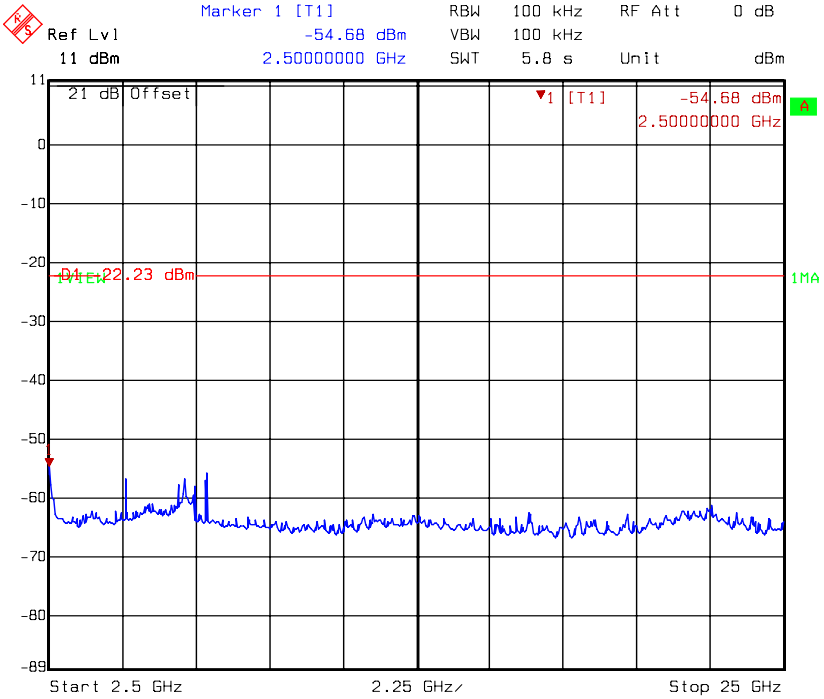
Title: Conductive-Spurious
Comment A: CH 6 at 802.11n 20MHz mode DACO
Date: 24.NOV.2009 10:49:08

Chain 0: conducted spurious @ 802.11n (HT20) mode channel 6 (2 of 3)



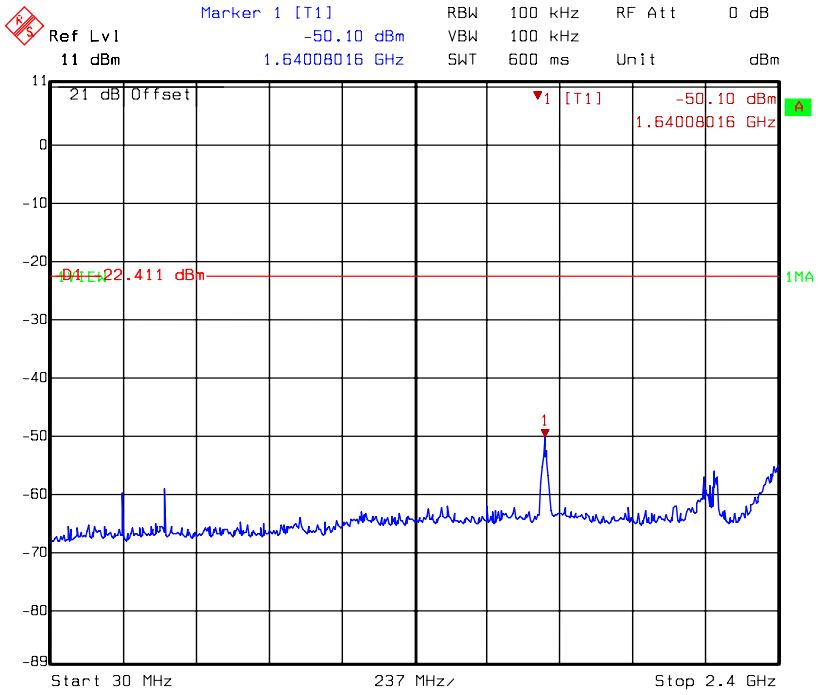
Title: Conductive-Spurious
Comment A: CH 6 at 802.11n 20MHz mode DACO
Date: 24.NOV.2009 10:48:47

Chain 0: conducted spurious @ 802.11n (HT20) mode channel 6 (3 of 3)



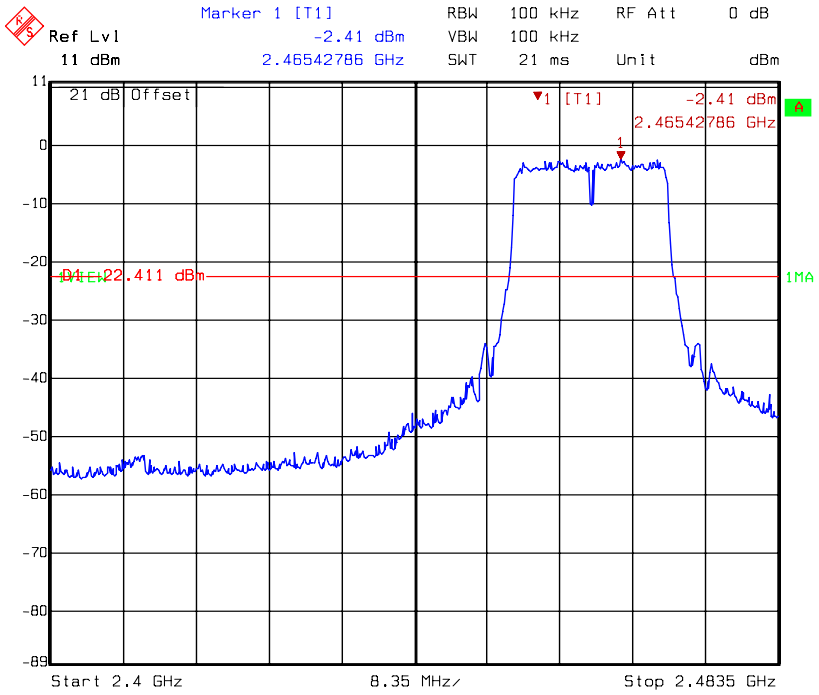
Title: Conductive-Spurious
Comment A: CH 6 at 802.11n 20MHz mode DACO
Date: 24.NOV.2009 10:49:35

Chain 0: conducted spurious @ 802.11n (HT20) mode channel 11 (1 of 3)



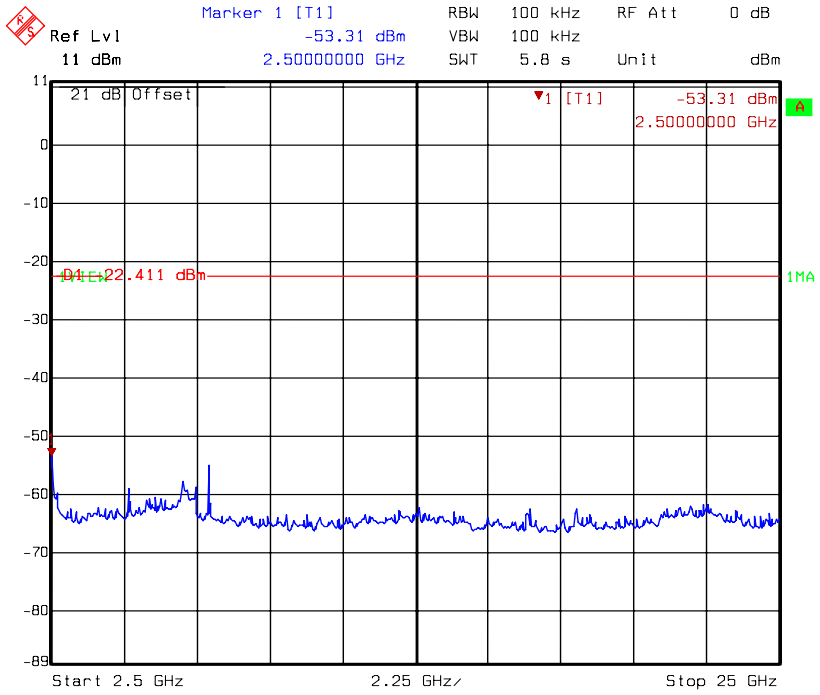
Title: Conductive-Spurious
Comment A: CH 11 at 802.11n 20MHz mode DACO
Date: 24.NOV.2009 10:52:16

Chain 0: conducted spurious @ 802.11n (HT20) mode channel 11 (2 of 3)



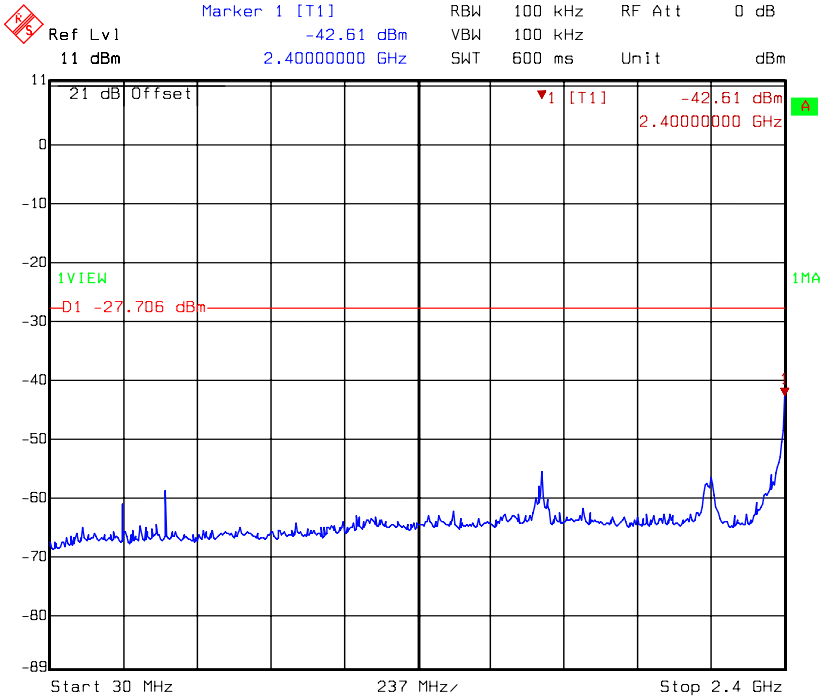
Title: Conductive-Spurious
Comment A: CH 11 at 802.11n 20MHz mode DACO
Date: 24.NOV.2009 10:51:55

Chain 0: conducted spurious @ 802.11n (HT20) mode channel 11 (3 of 3)



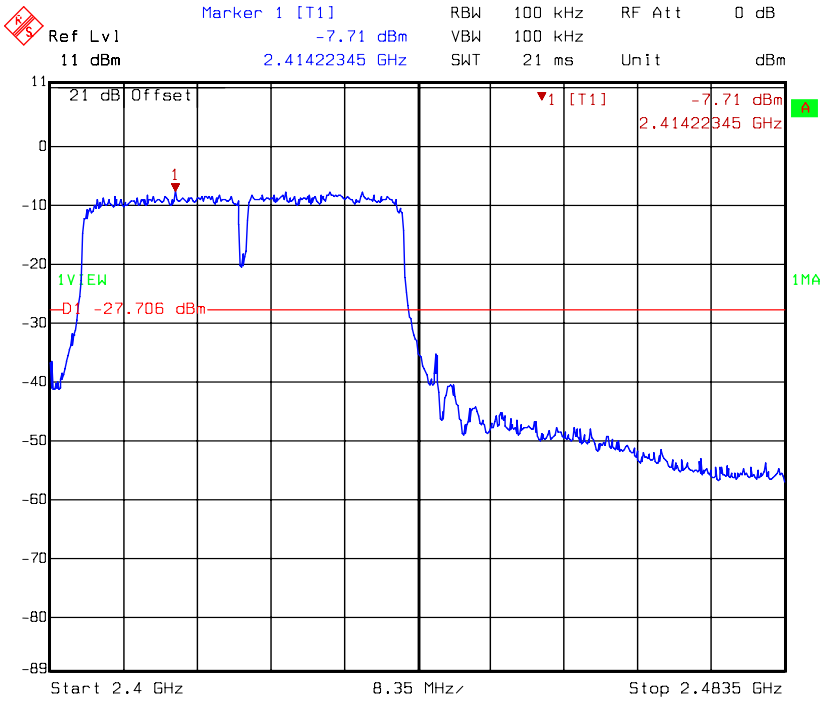
Title: Conductive-Spurious
Comment A: CH 11 at 802.11n 20MHz mode DACO
Date: 24.NOV.2009 10:52:43

Chain 0: conducted spurious @ 802.11n (HT40) mode channel 3 (1 of 3)



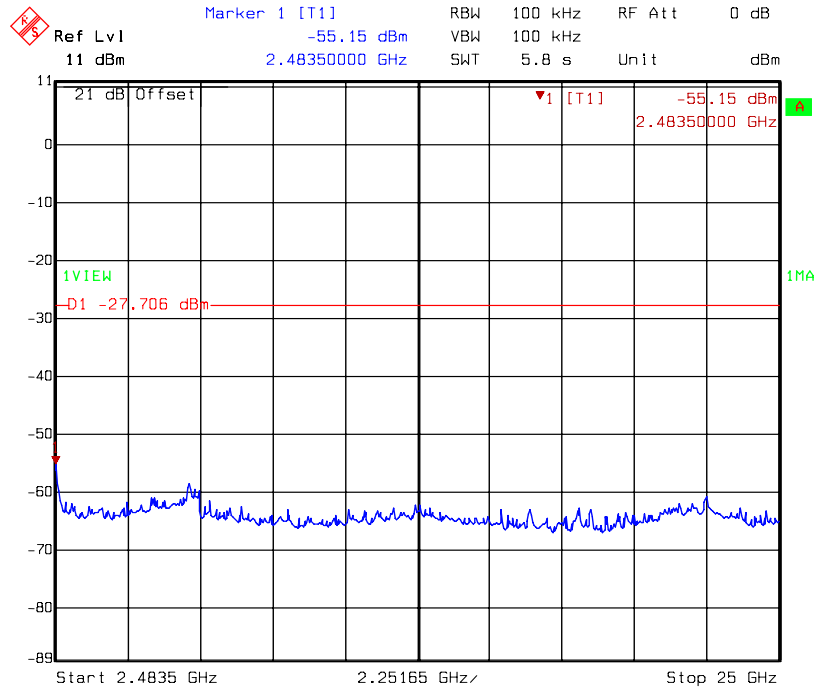
Title: Conductive-Spurious
Comment A: CH 3 at 802.11n 40MHz mode DACO
Date: 24.NOV.2009 10:55:43

Chain 0: conducted spurious @ 802.11n (HT40) mode channel 3 (2 of 3)



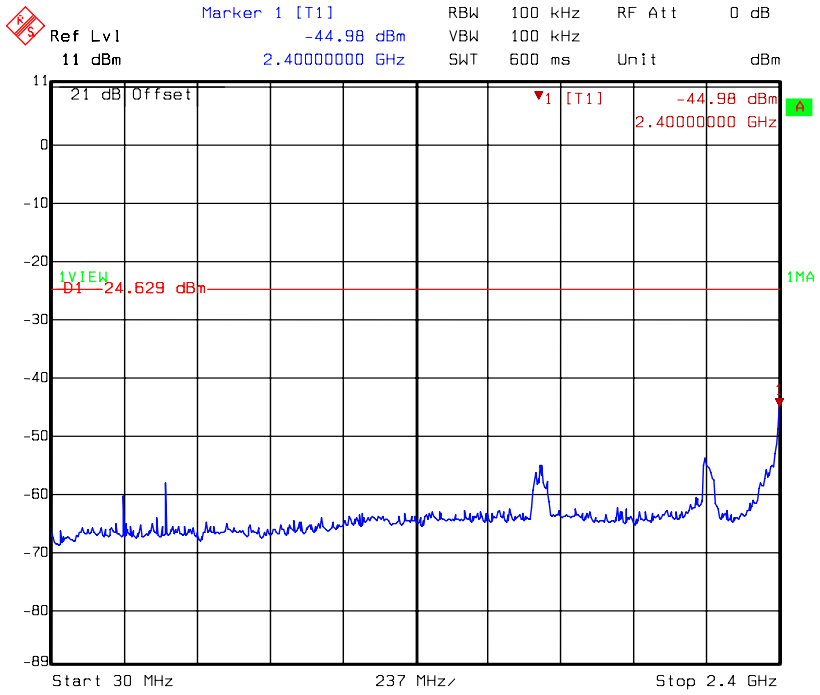
Title: Conductive-Spurious
Comment A: CH 3 at 802.11n 40MHz mode DACO
Date: 24.NOV.2009 10:55:22

Chain 0: conducted spurious @ 802.11n (HT40) mode channel 3 (3 of 3)



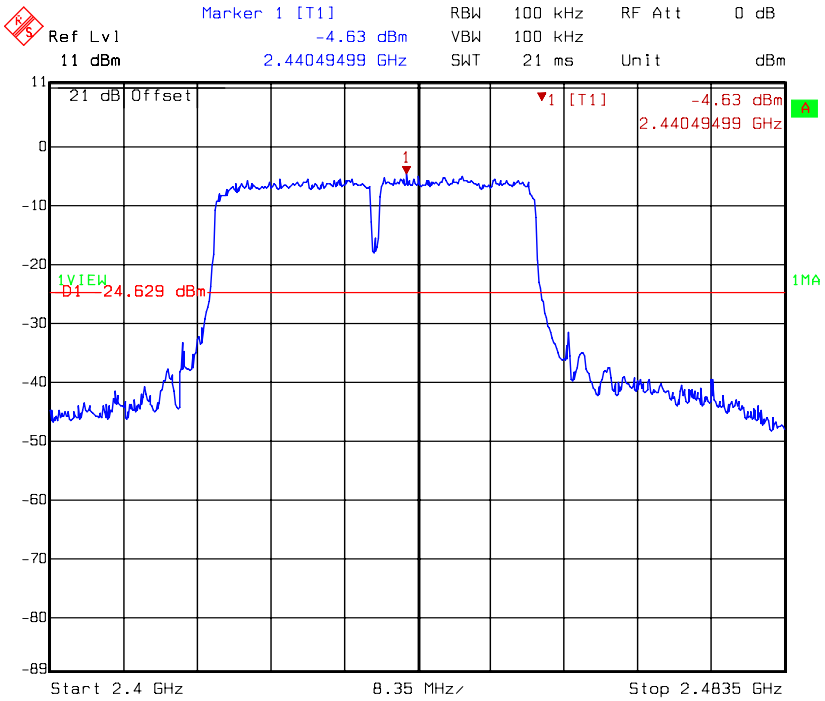
Title: Conductive-Spurious
Comment A: CH 3 at 802.11n 40MHz mode DACO
Date: 24.NOV.2009 10:56:11

Chain 0: conducted spurious @ 802.11n (HT40) mode channel 6 (1 of 3)



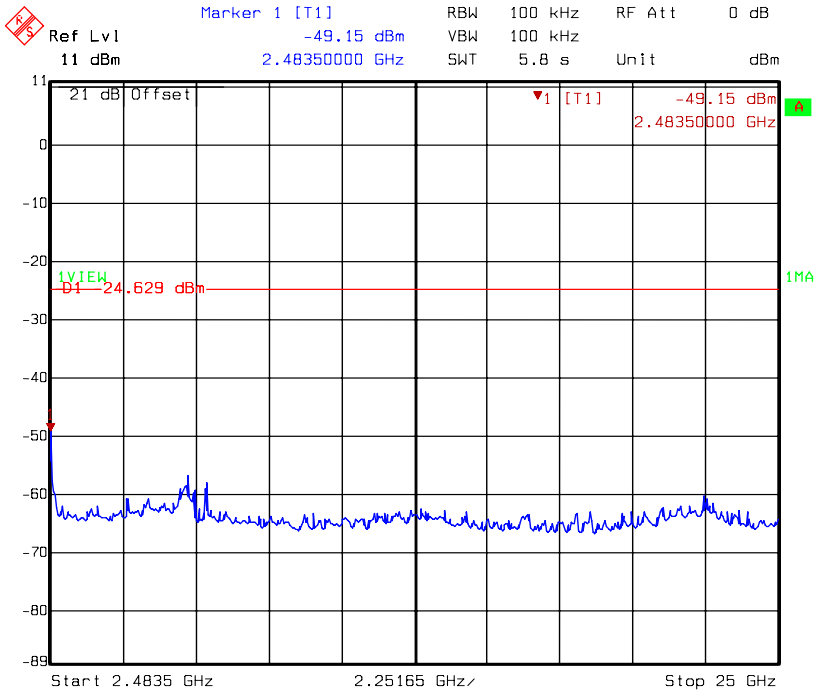
Title: Conductive-Spurious
Comment A: CH 6 at 802.11n 40MHz mode DACO
Date: 24.NOV.2009 10:58:31

Chain 0: conducted spurious @ 802.11n (HT40) mode channel 6 (2 of 3)



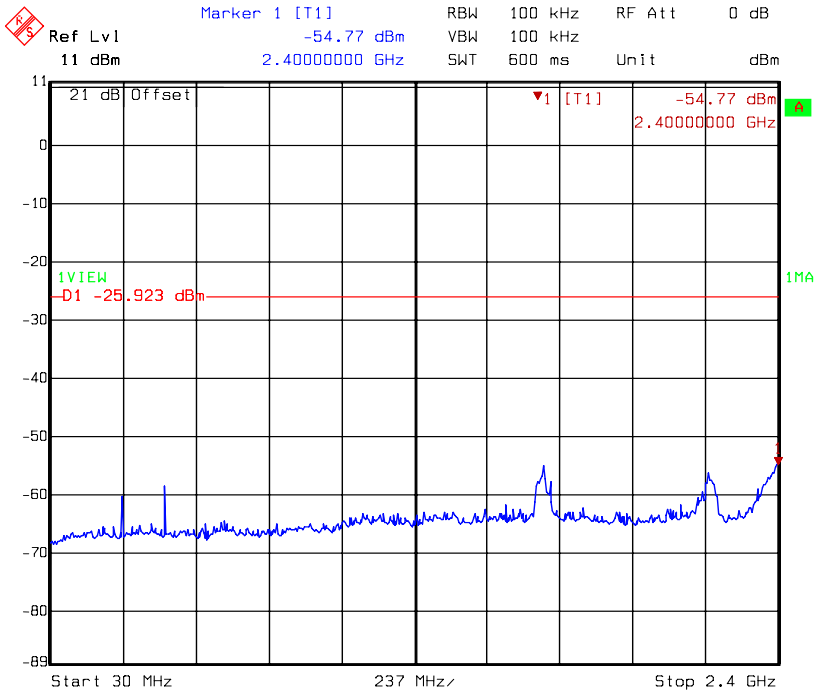
Title: Conductive-Spurious
Comment A: CH 6 at 802.11n 40MHz mode DACO
Date: 24.NOV.2009 10:58:10

Chain 0: conducted spurious @ 802.11n (HT40) mode channel 6 (3 of 3)



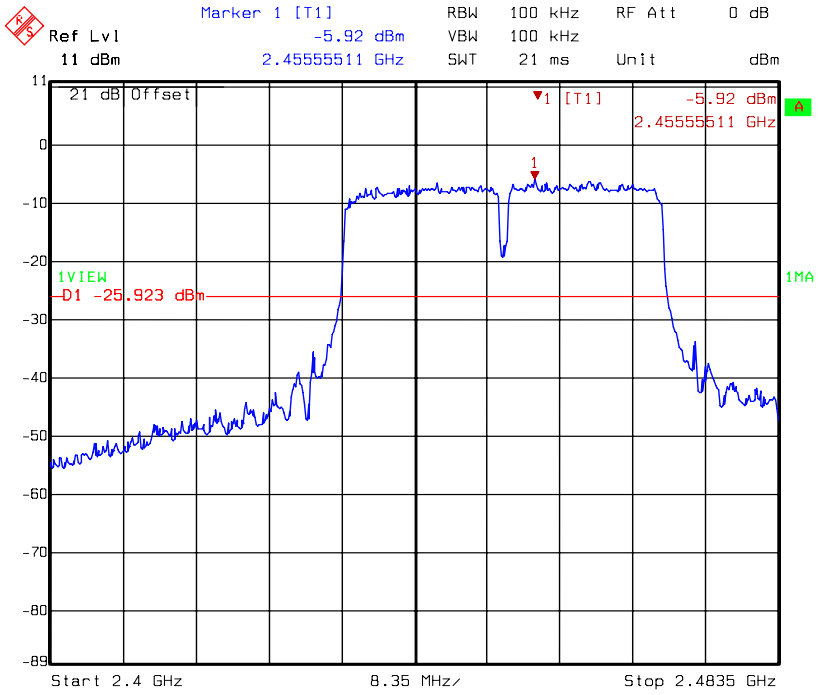
Title: Conductive-Spurious
Comment A: CH 6 at 802.11n 40MHz mode DACO
Date: 24.NOV.2009 10:58:58

Chain 0: conducted spurious @ 802.11n (HT40) mode channel 9 (1 of 3)



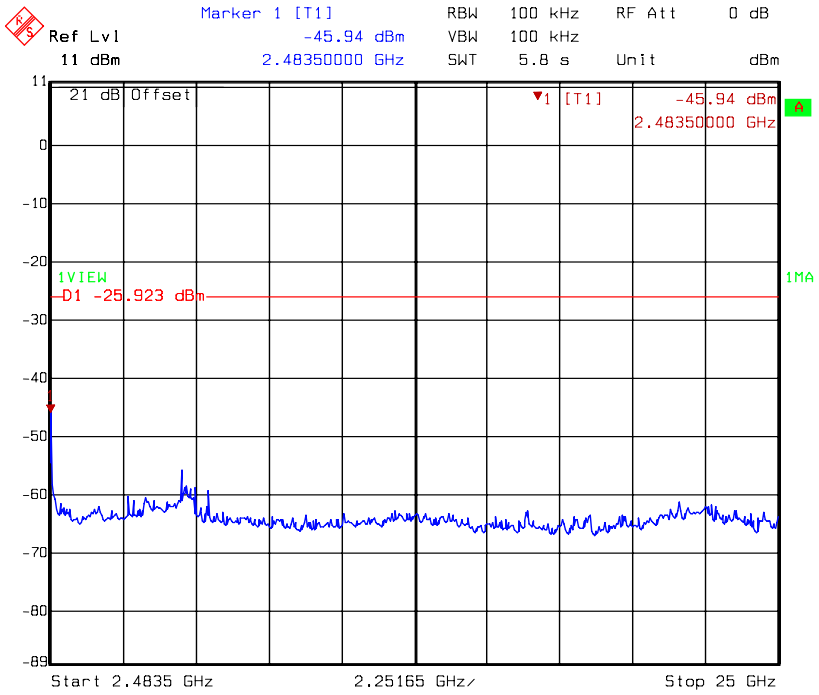
Title: Conductive-Spurious
Comment A: CH 9 at 802.11n 40MHz mode DACO
Date: 24.NOV.2009 11:02:20

Chain 0: conducted spurious @ 802.11n (HT40) mode channel 9 (2 of 3)



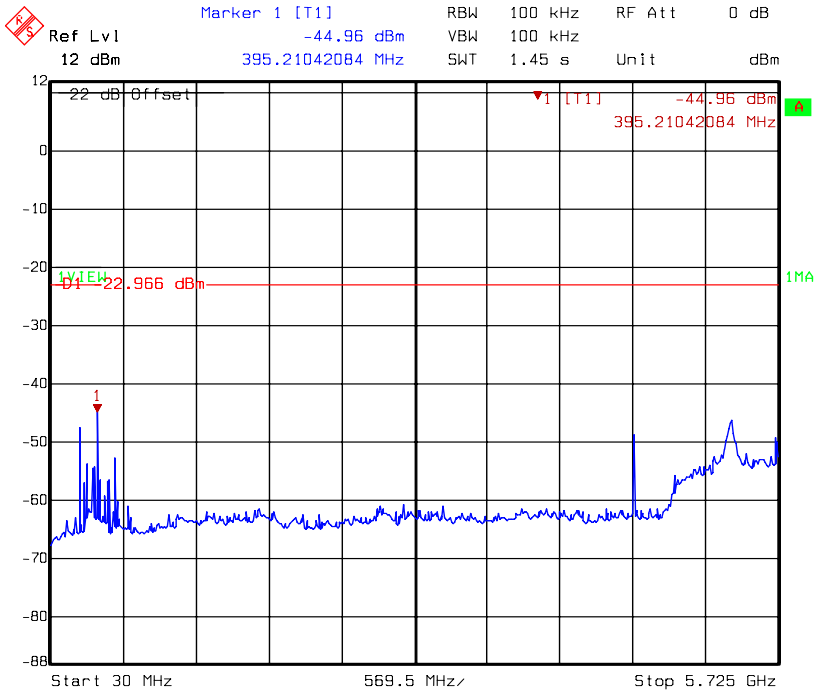
Title: Conductive-Spurious
Comment A: CH 9 at 802.11n 40MHz mode DACO
Date: 24.NOV.2009 11:01:59

Chain 0: conducted spurious @ 802.11n (HT40) mode channel 9 (3 of 3)



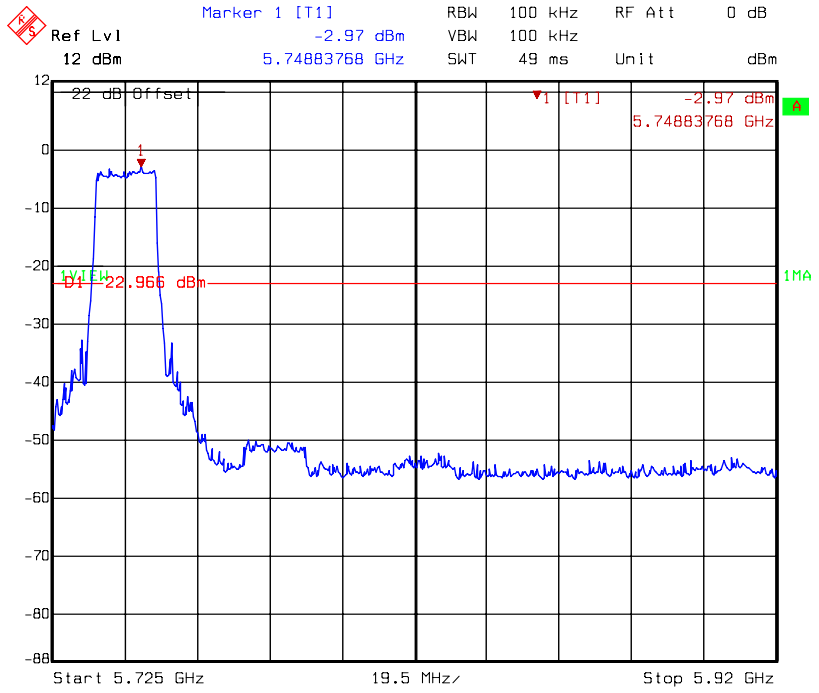
Title: Conductive-Spurious
Comment A: CH 9 at 802.11n 40MHz mode DACO
Date: 24.NOV.2009 11:02:48

Chain 0: conducted spurious @ 802.11a mode channel 149 (1 of 4)



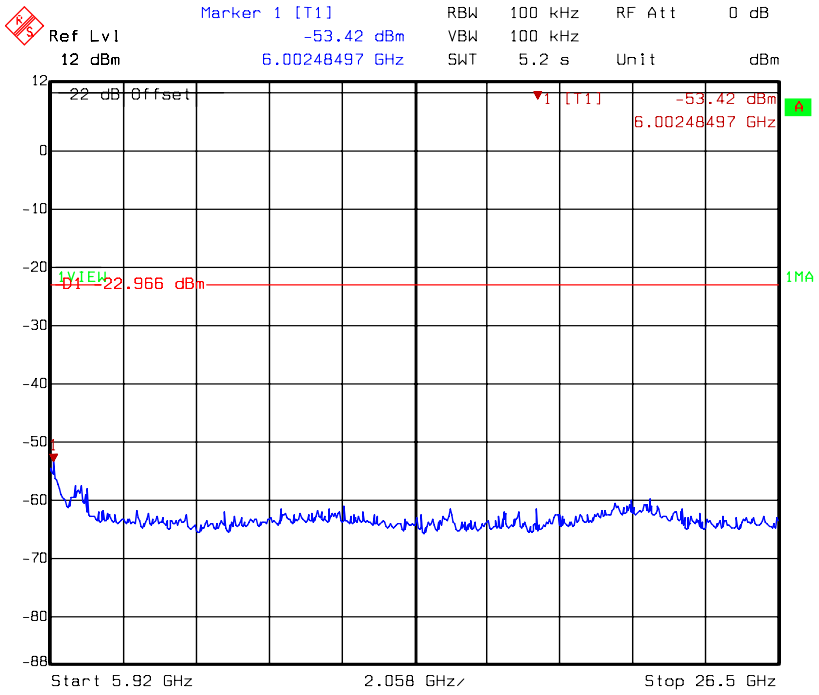
Title: Conductive-Spurious
Comment A: CH 149 at 802.11a mode 30MHz~5725MHzDAC0
Date: 24.NOV.2009 14:43:57

Chain 0: conducted spurious @ 802.11a mode channel 149 (2 of 4)



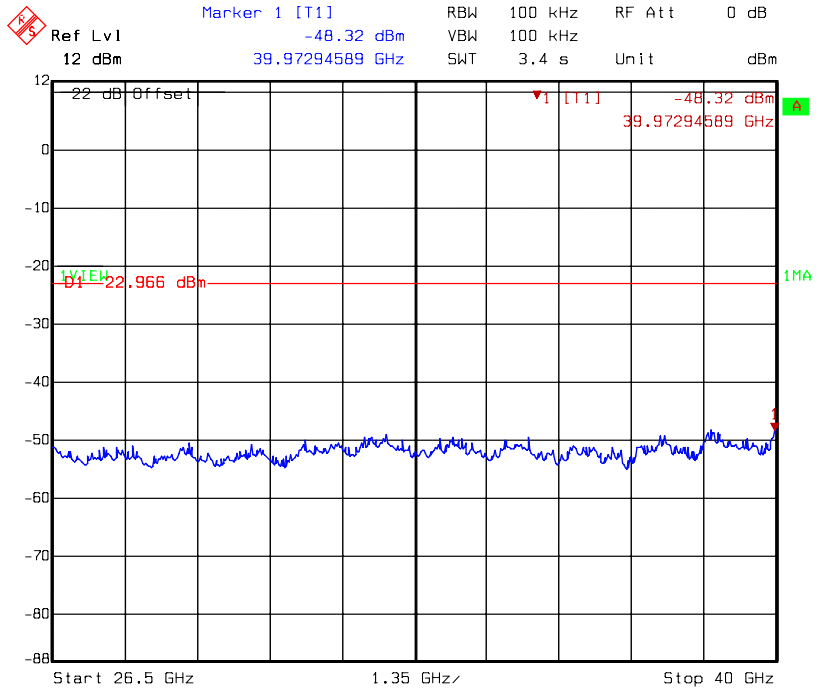
Title: Conductive-Spurious
Comment A: CH 149 at 802.11a mode 5725MHz~5920MHzDAC0
Date: 24.NOV.2009 14:43:36

Chain 0: conducted spurious @ 802.11a mode channel 149 (3 of 4)



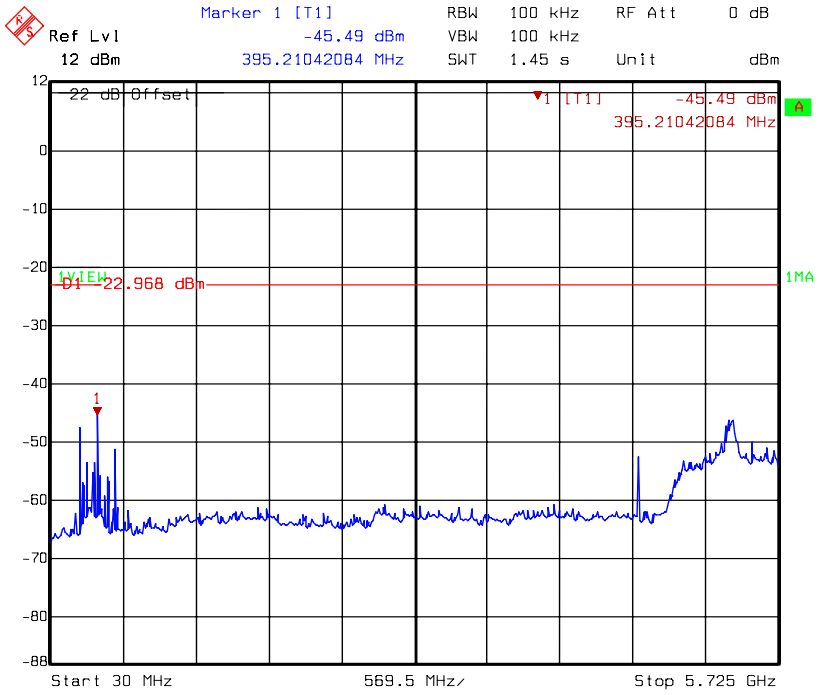
Title: Conductive-Spurious
Comment A: CH 149 at 802.11a mode 5925MHz~26500MHzDAC0
Date: 24.NOV.2009 14:44:23

Chain 0: conducted spurious @ 802.11a mode channel 149 (4 of 4)



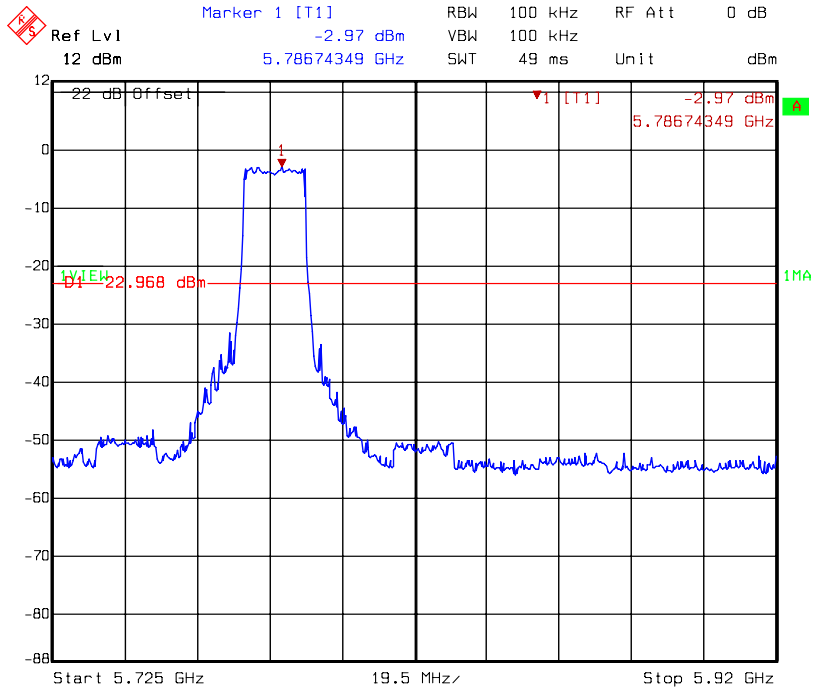
Title: Conductive-Spurious
Comment A: CH 149 at 802.11a mode 26500MHz~40000MHzDAC0
Date: 24.NOV.2009 14:44:45

Chain 0: conducted spurious @ 802.11a mode channel 157 (1 of 4)



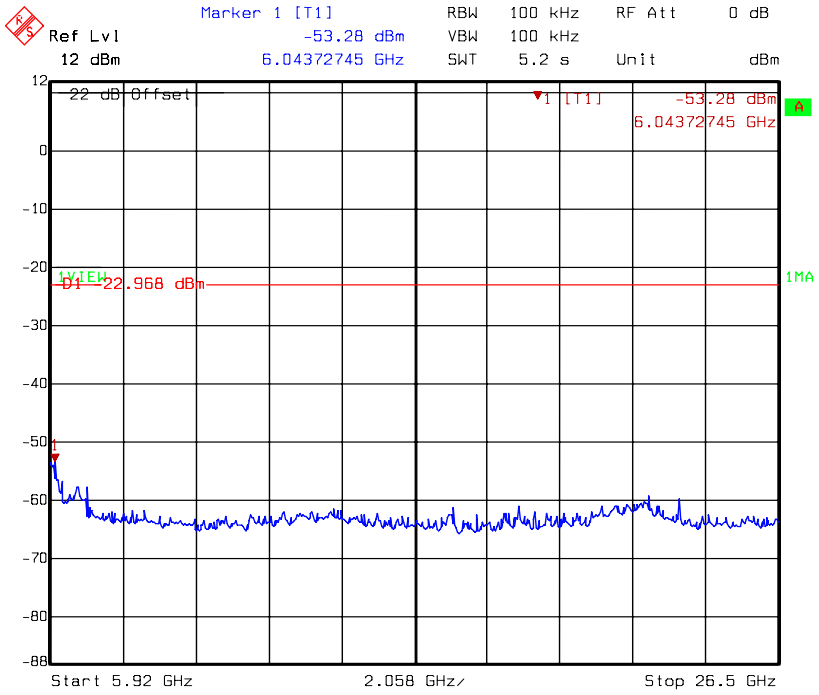
Title: Conductive-Spurious
Comment A: CH 157 at 802.11a mode 30MHz~5725MHzDACO
Date: 24.NOV.2009 14:47:05

Chain 0: conducted spurious @ 802.11a mode channel 157 (2 of 4)



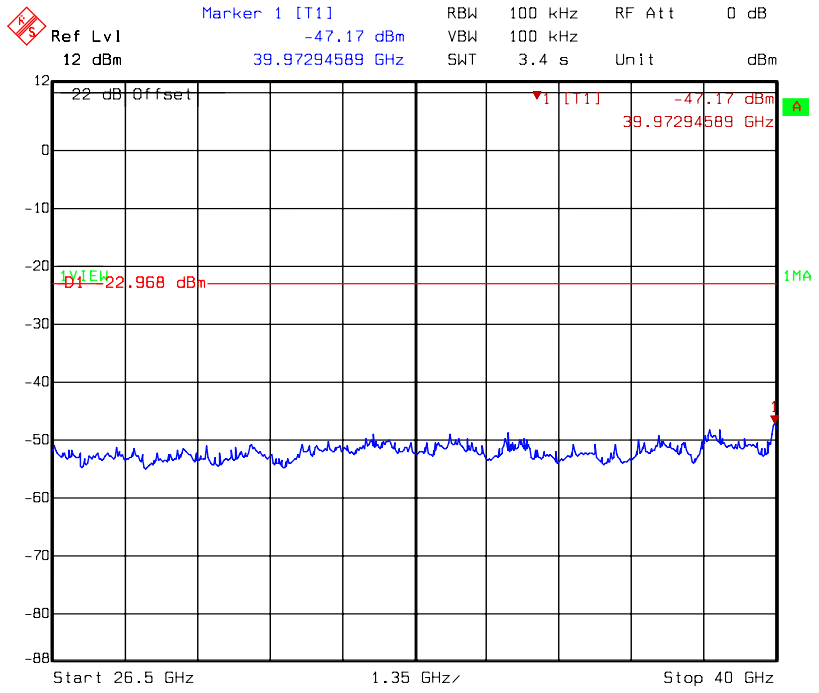
Title: Conductive-Spurious
Comment A: CH 157 at 802.11a mode 5725MHz~5920MHzDACO
Date: 24.NOV.2009 14:46:43

Chain 0: conducted spurious @ 802.11a mode channel 157 (3 of 4)



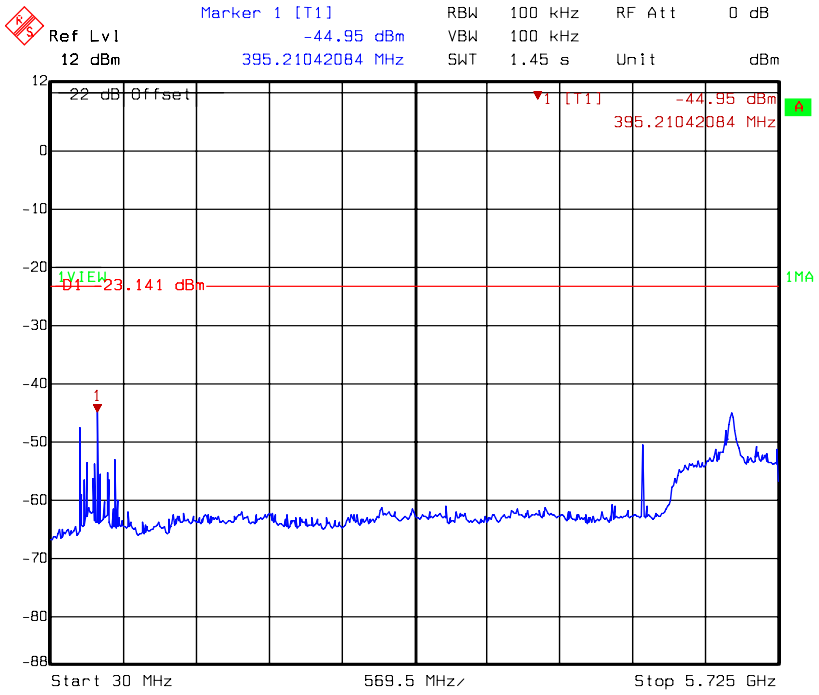
Title: Conductive-Spurious
Comment A: CH 157 at 802.11a mode 5925MHz~26500MHzDAC0
Date: 24.NOV.2009 14:47:31

Chain 0: conducted spurious @ 802.11a mode channel 157 (4 of 4)



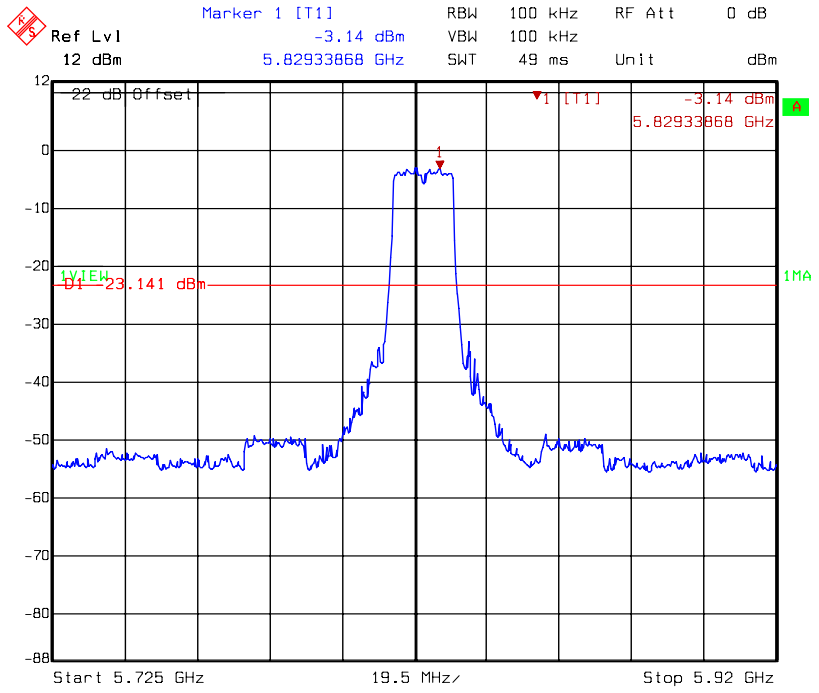
Title: Conductive-Spurious
Comment A: CH 157 at 802.11a mode 26500MHz~40000MHzDAC0
Date: 24.NOV.2009 14:47:53

Chain 0: conducted spurious @ 802.11a mode channel 165 (1 of 4)



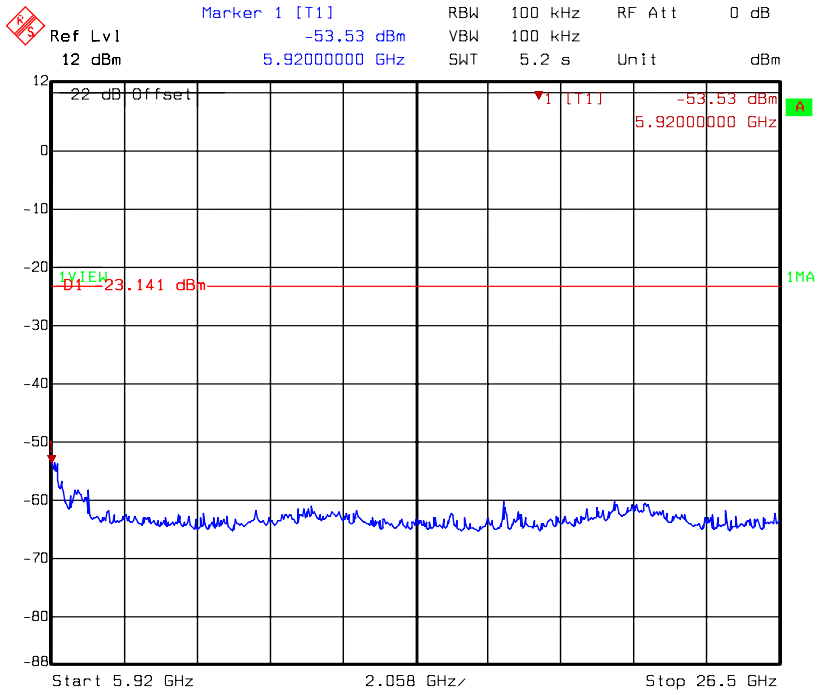
Title: Conductive-Spurious
Comment A: CH 165 at 802.11a mode 30MHz~5725MHzDAC0
Date: 24.NOV.2009 14:56:12

Chain 0: conducted spurious @ 802.11a mode channel 165 (2 of 4)



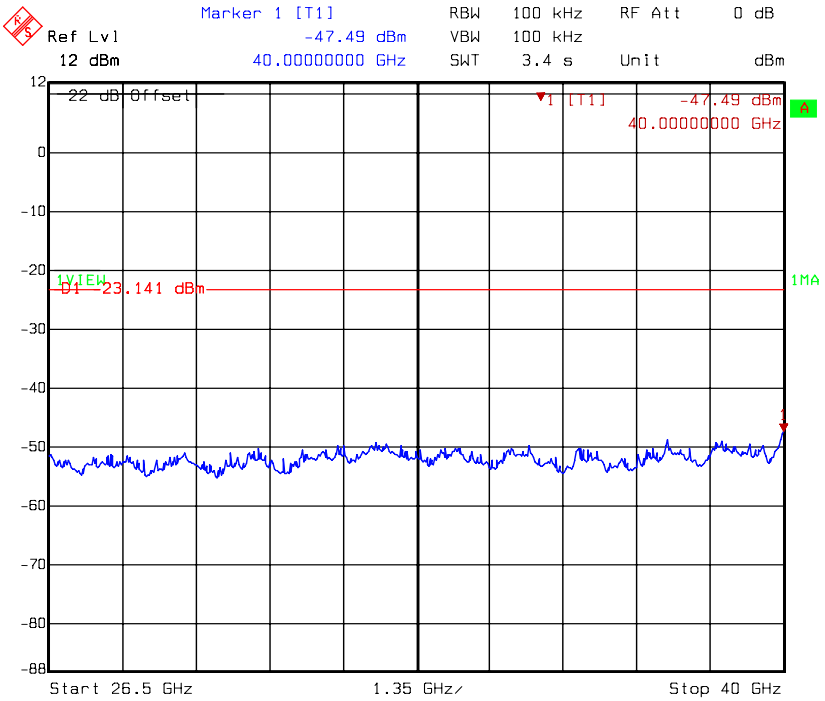
Title: Conductive-Spurious
Comment A: CH 165 at 802.11a mode 5725MHz~5920MHzDAC0
Date: 24.NOV.2009 14:55:51

Chain 0: conducted spurious @ 802.11a mode channel 165 (3 of 4)



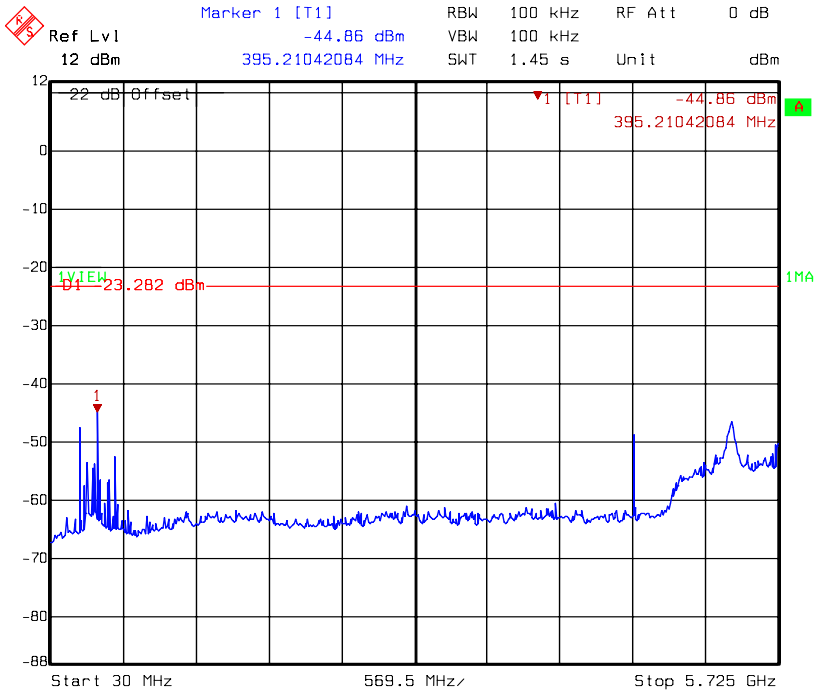
Title: Conductive-Spurious
Comment A: CH 165 at 802.11a mode 5925MHz~26500MHzDACO
Date: 24.NOV.2009 14:56:38

Chain 0: conducted spurious @ 802.11a mode channel 165 (4 of 4)



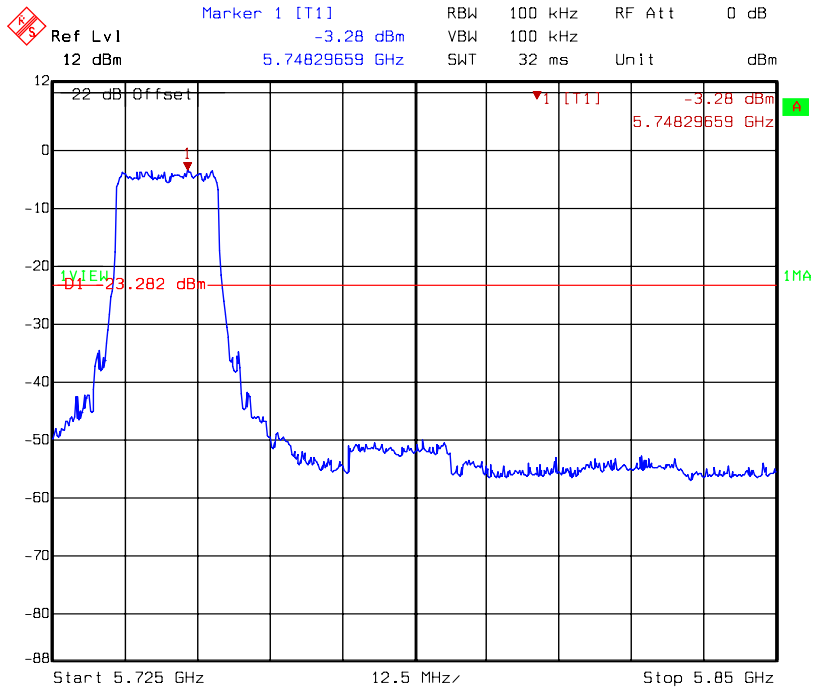
Title: Conductive-Spurious
Comment A: CH 165 at 802.11a mode 26500MHz~40000MHzDACO
Date: 24.NOV.2009 14:57:00

Chain 0: conducted spurious @ 802.11n (HT20) mode channel 149 (1 of 3)



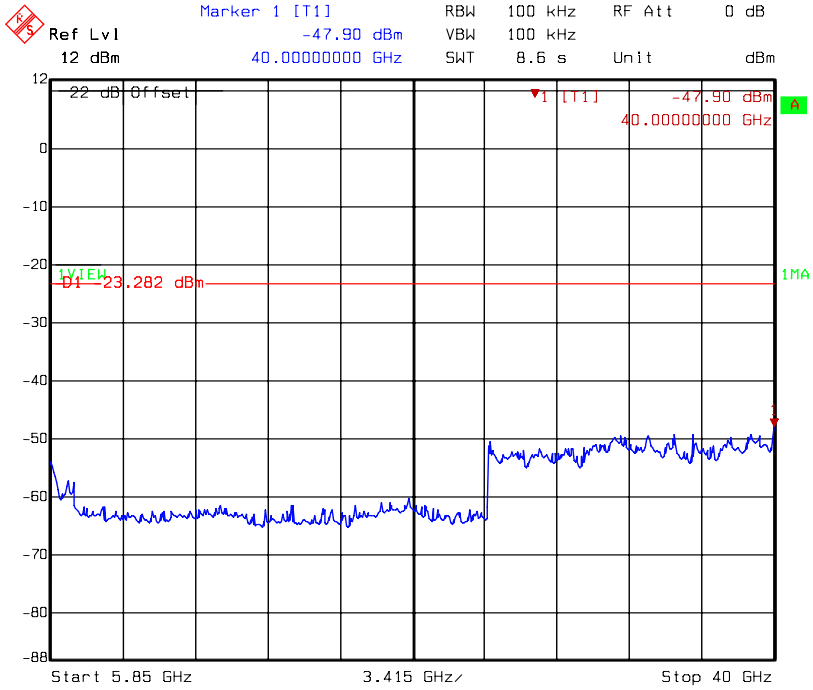
Title: Conductive-Spurious
Comment A: CH 149 at 802.11n 20MHz mode DACO
Date: 24.NOV.2009 14:35:19

Chain 0: conducted spurious @ 802.11n (HT20) mode channel 149 (2 of 3)



Title: Conductive-Spurious
Comment A: CH 149 at 802.11n 20MHz mode DACO
Date: 24.NOV.2009 14:34:58

Chain 0: conducted spurious @ 802.11n (HT20) mode channel 149 (3 of 3)

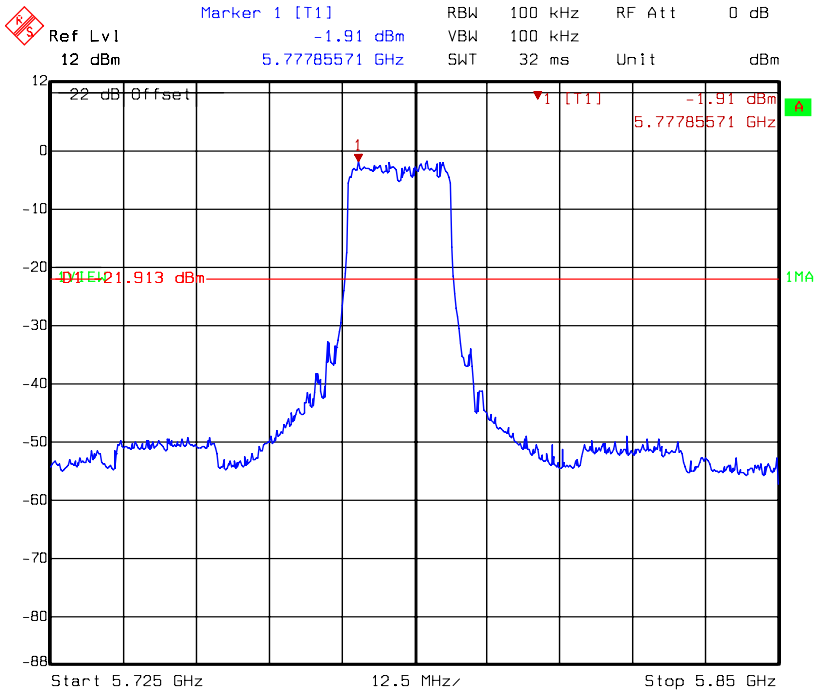


Title: Conductive-Spurious
Comment A: CH 149 at 802.11n 20MHz mode DACO
Date: 24.NOV.2009 14:35:51

Chain 0: conducted spurious @ 802.11n (HT20) mode channel 157 (1 of 3)

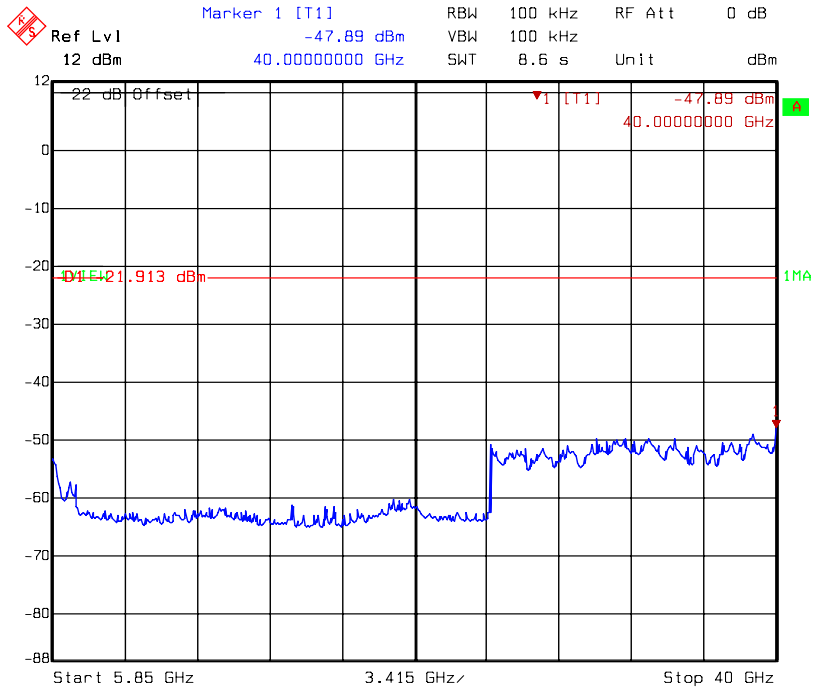
Title: Conductive-Spurious
Comment A: CH 157 at 802.11n 20MHz mode DACO
Date: 24.NOV.2009 14:39:58

Chain 0: conducted spurious @ 802.11n (HT20) mode channel 157 (2 of 3)



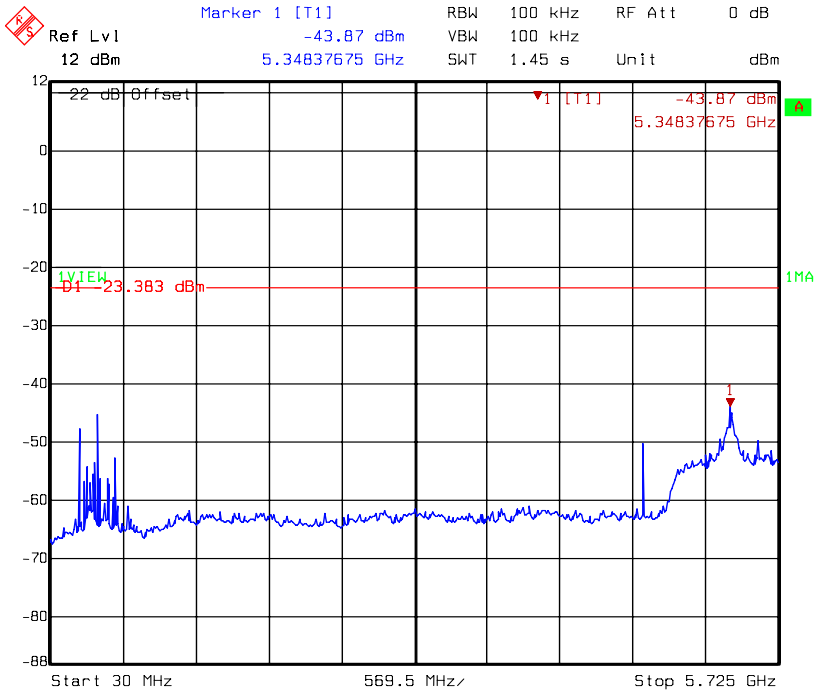
Title: Conductive-Spurious
Comment A: CH 157 at 802.11n 20MHz mode DACO
Date: 24.NOV.2009 14:39:37

Chain 0: conducted spurious @ 802.11n (HT20) mode channel 157 (3 of 3)



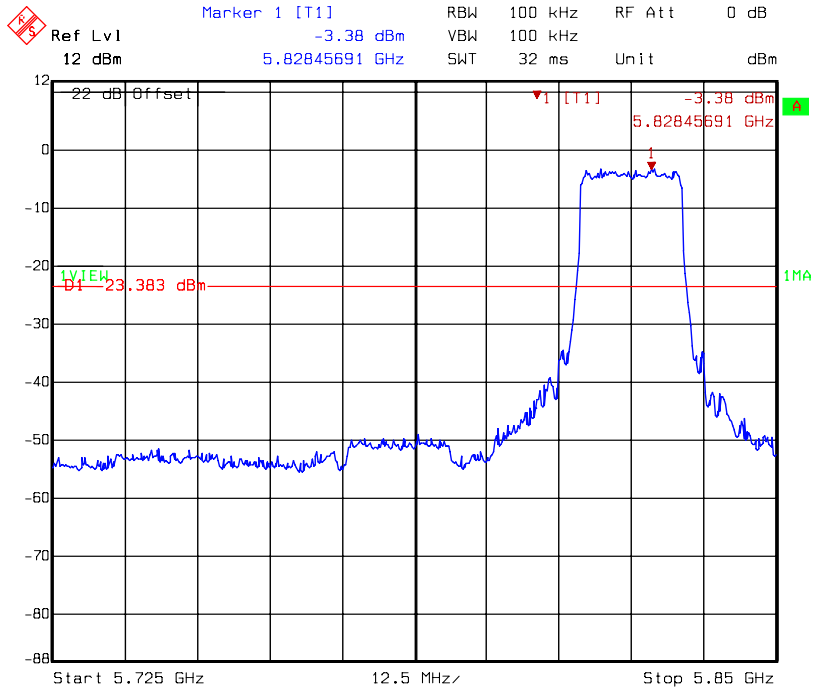
Title: Conductive-Spurious
Comment A: CH 157 at 802.11n 20MHz mode DACO
Date: 24.NOV.2009 14:40:31

Chain 0: conducted spurious @ 802.11n (HT20) mode channel 165 (1 of 3)



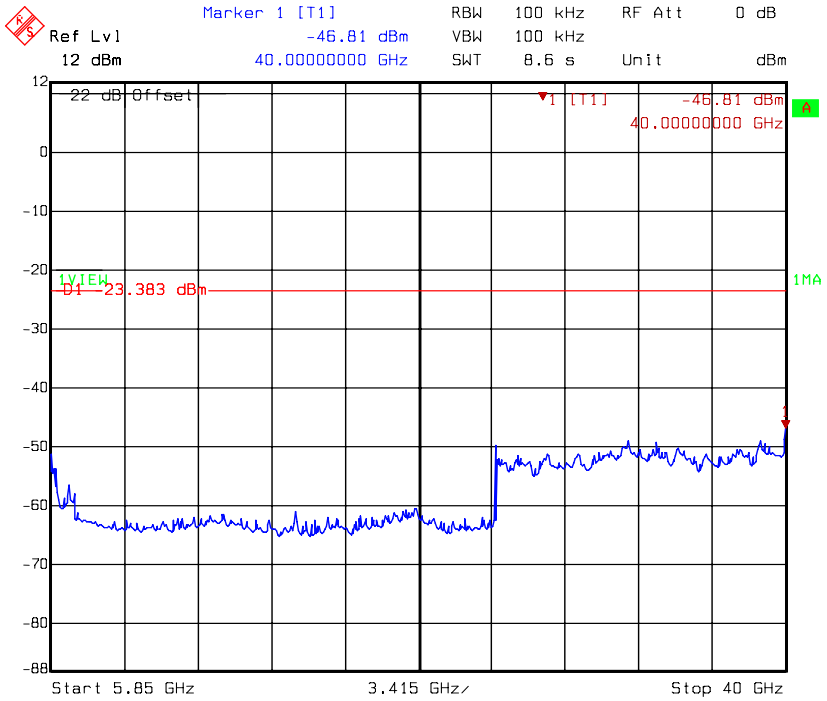
Title: Conductive-Spurious
Comment A: CH 165 at 802.11n 20MHz mode DACO
Date: 24.NOV.2009 14:29:31

Chain 0: conducted spurious @ 802.11n (HT20) mode channel 165 (2 of 3)



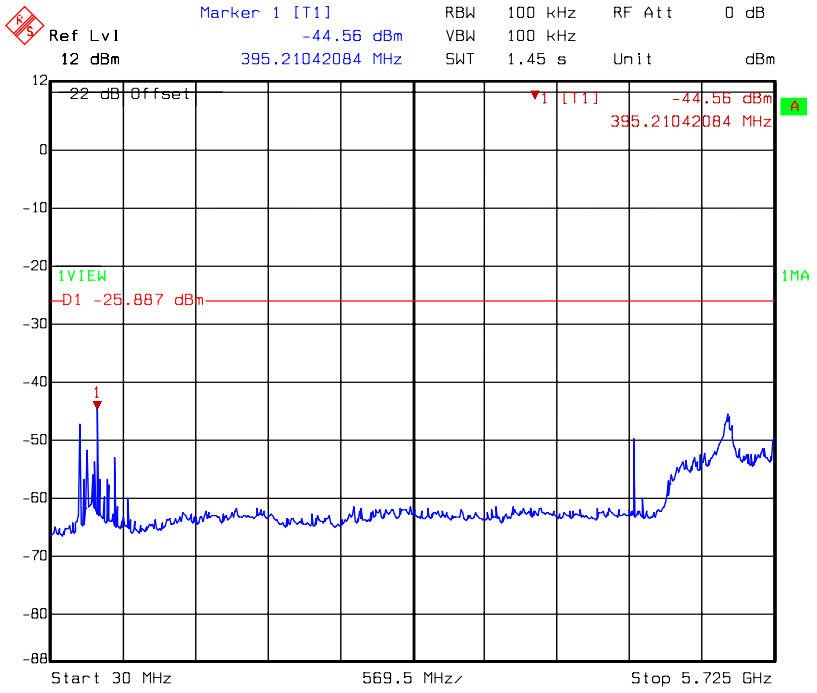
Title: Conductive-Spurious
Comment A: CH 165 at 802.11n 20MHz mode DACO
Date: 24.NOV.2009 14:29:10

Chain 0: conducted spurious @ 802.11n (HT20) mode channel 165 (3 of 3)



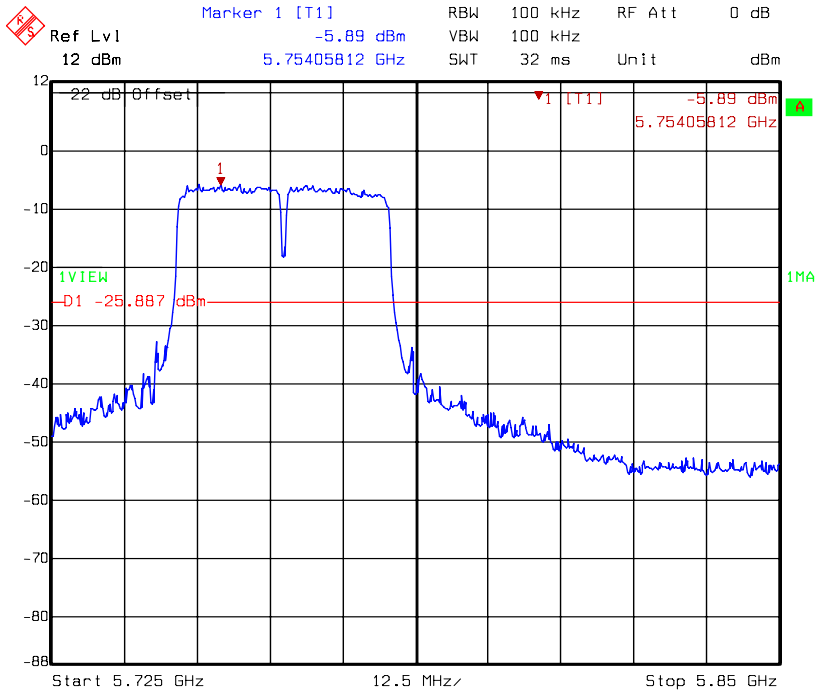
Title: Conductive-Spurious
Comment A: CH 165 at 802.11n 20MHz mode DACO
Date: 24.NOV.2009 14:30:04

Chain 0: conducted spurious @ 802.11n (HT40) mode channel 153 (1 of 3)



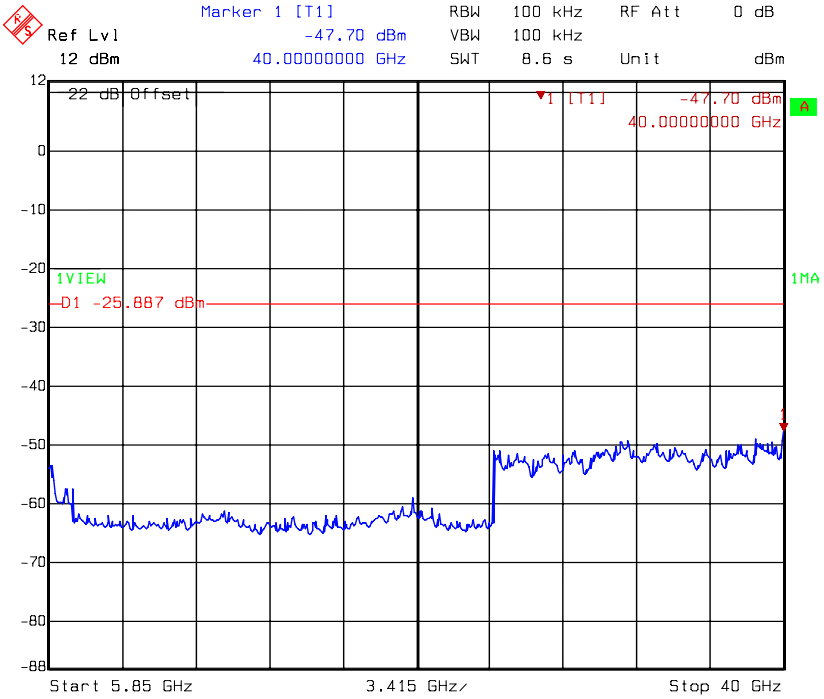
Title: Conductive-Spurious
Comment A: CH 153 at 802.11n 40MHz mode DACO
Date: 24.NOV.2009 14:07:34

Chain 0: conducted spurious @ 802.11n (HT40) mode channel 153 (2 of 3)



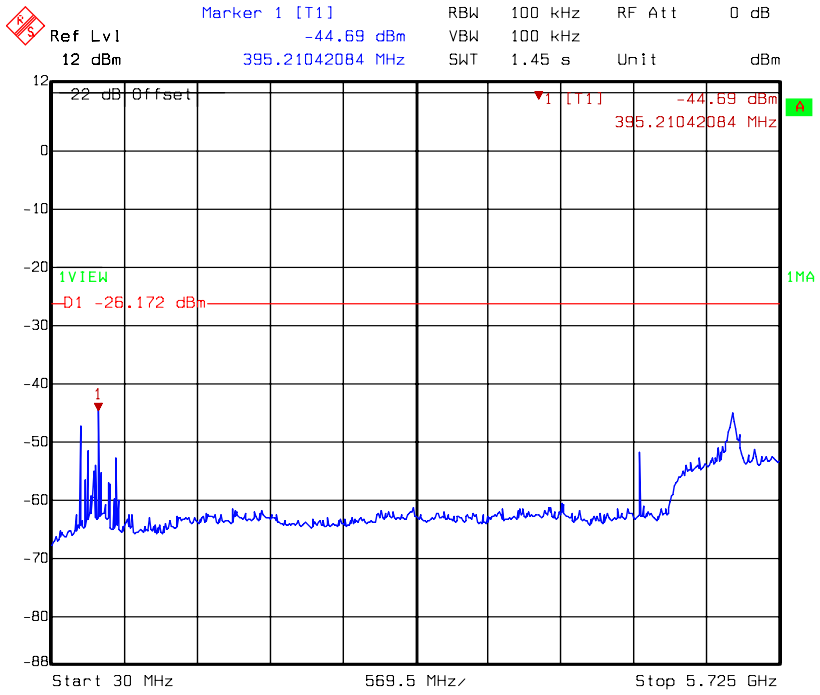
Title: Conductive-Spurious
Comment A: CH 153 at 802.11n 40MHz mode DACO
Date: 24.NOV.2009 14:07:12

Chain 0: conducted spurious @ 802.11n (HT40) mode channel 153 (3 of 3)



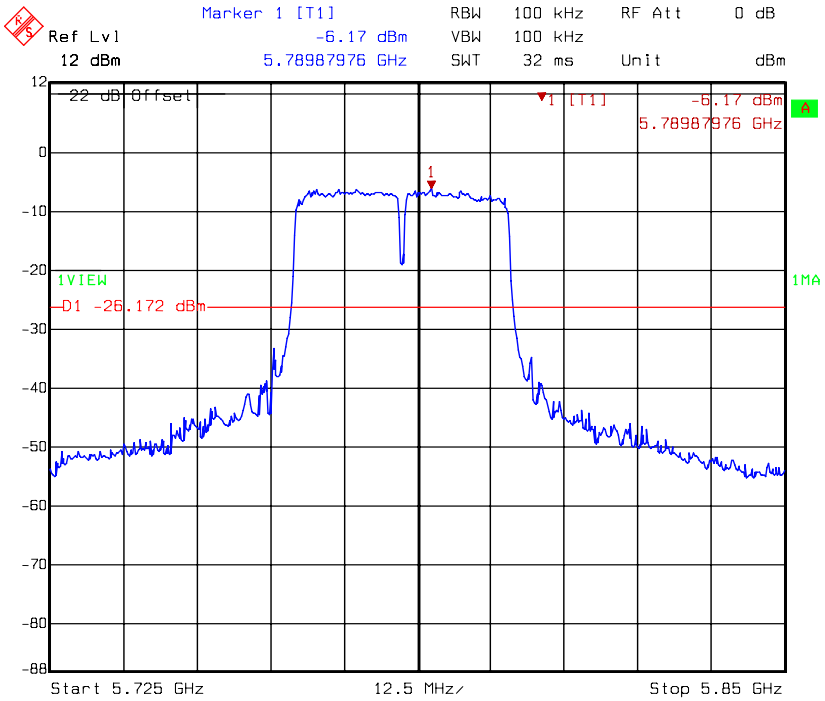
Title: Conductive-Spurious
Comment A: CH 153 at 802.11n 40MHz mode DACO
Date: 24.NOV.2009 14:08:06

Chain 0: conducted spurious @ 802.11n (HT40) mode channel 157 (1 of 3)



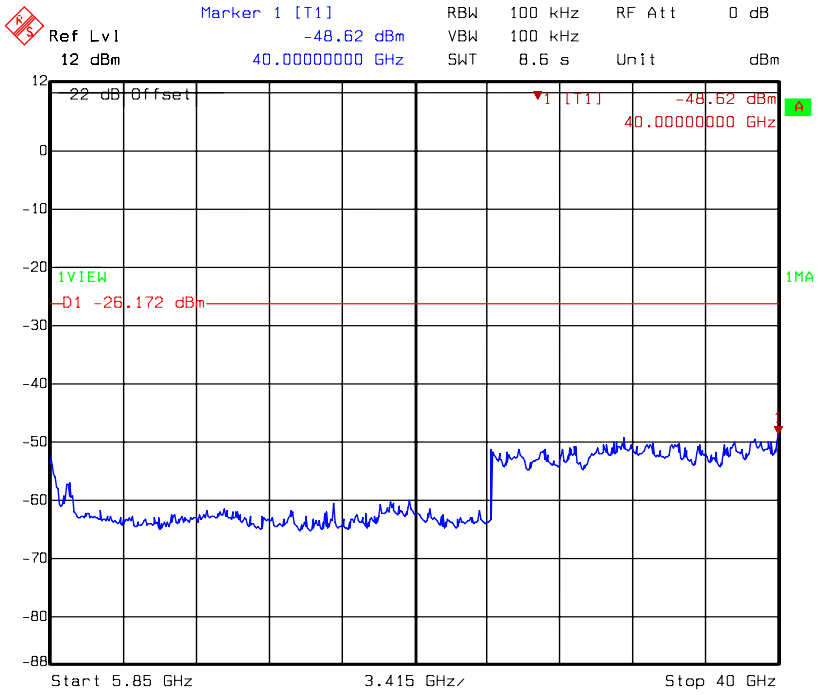
Title: Conductive-Spurious
Comment A: CH 157 at 802.11n 40MHz mode DACO
Date: 24.NOV.2009 14:11:37

Chain 0: conducted spurious @ 802.11n (HT40) mode channel 157 (2 of 3)



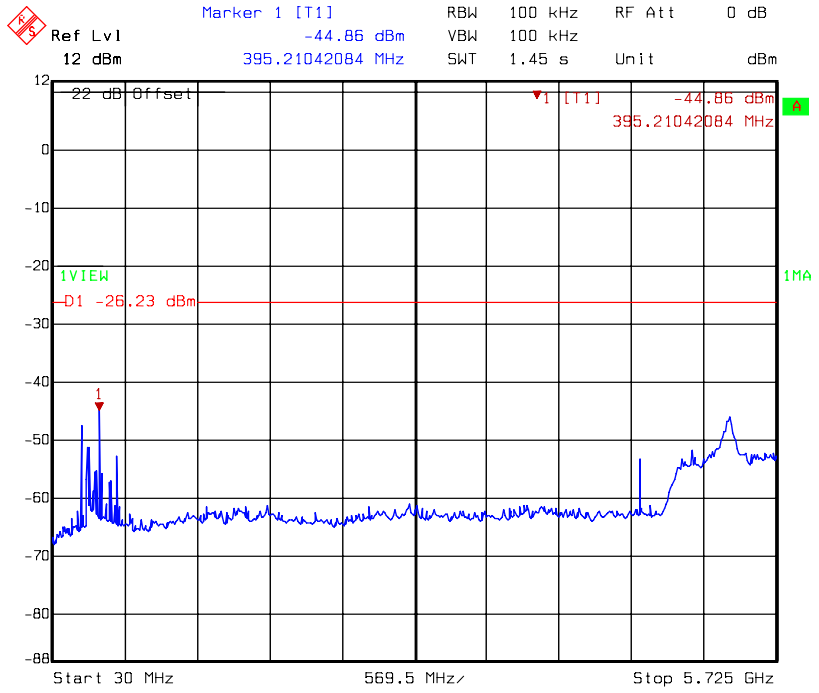
Title: Conductive-Spurious
Comment A: CH 157 at 802.11n 40MHz mode DACO
Date: 24.NOV.2009 14:11:16

Chain 0: conducted spurious @ 802.11n (HT40) mode channel 157 (3 of 3)



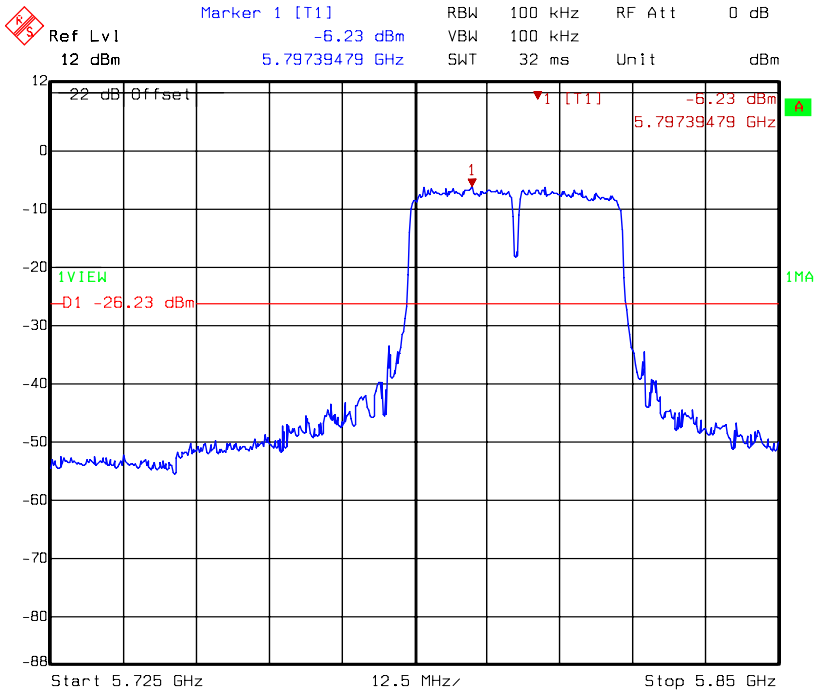
Title: Conductive-Spurious
Comment A: CH 157 at 802.11n 40MHz mode DACO
Date: 24.NOV.2009 14:12:10

Chain 0: conducted spurious @ 802.11n (HT40) mode channel 161 (1 of 3)



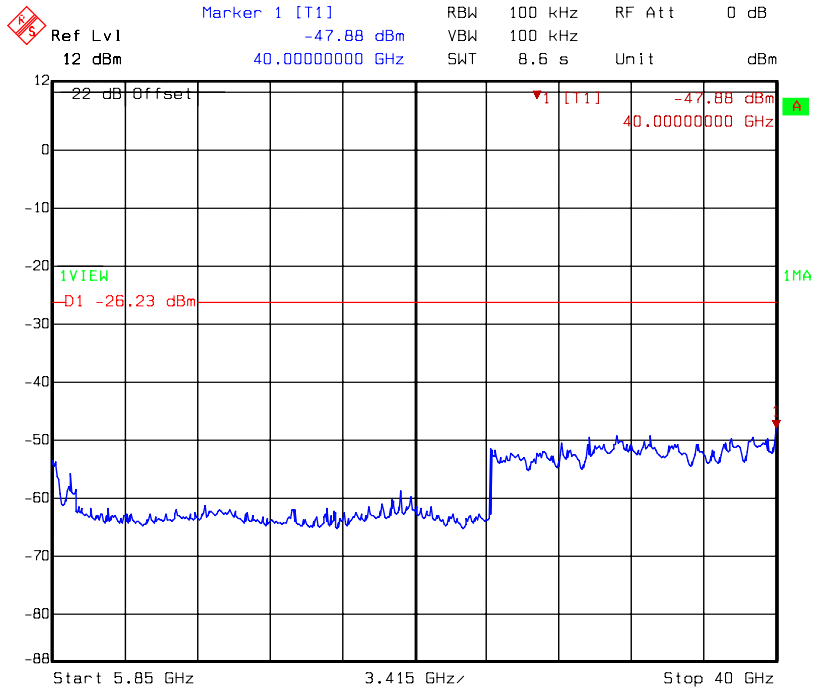
Title: Conductive-Spurious
Comment A: CH 161 at 802.11n 40MHz mode DACO
Date: 24.NOV.2009 14:14:40

Chain 0: conducted spurious @ 802.11n (HT40) mode channel 161 (2 of 3)



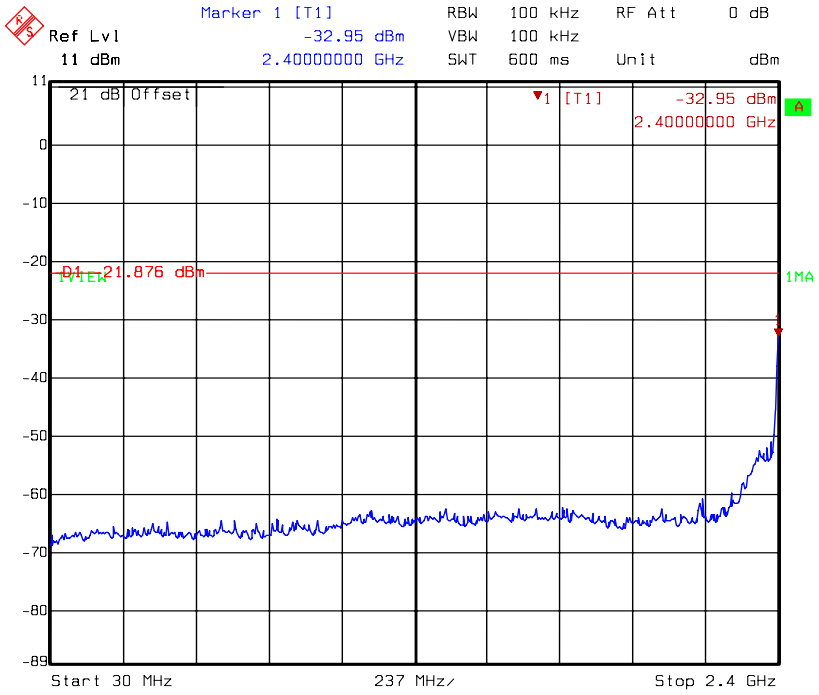
Title: Conductive-Spurious
Comment A: CH 161 at 802.11n 40MHz mode DACO
Date: 24.NOV.2009 14:14:18

Chain 0: conducted spurious @ 802.11n (HT40) mode channel 161 (3 of 3)



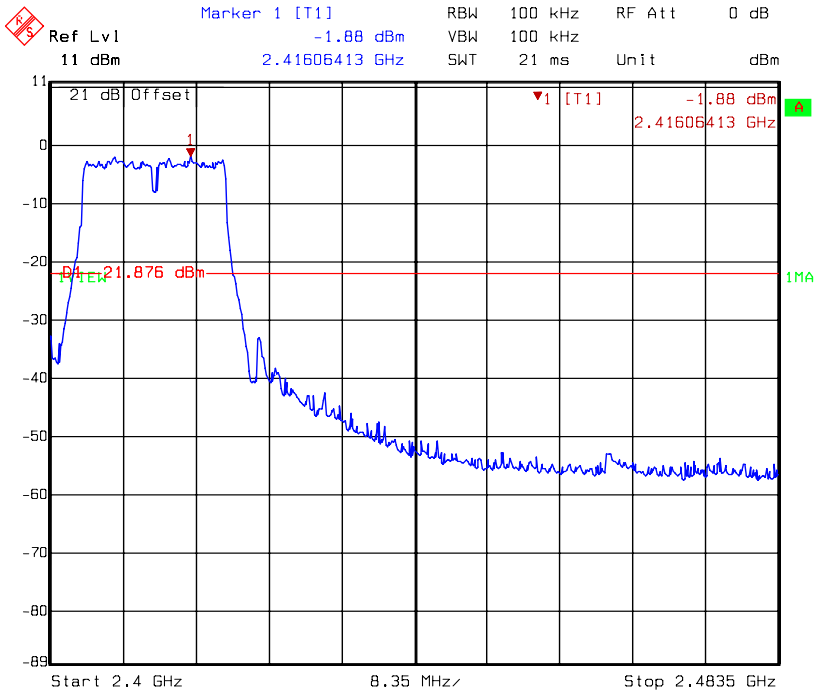
Title: Conductive-Spurious
Comment A: CH 161 at 802.11n 40MHz mode DACO
Date: 24.NOV.2009 14:15:12

Chain 1: conducted spurious @ 802.11g mode channel 1 (1 of 3)



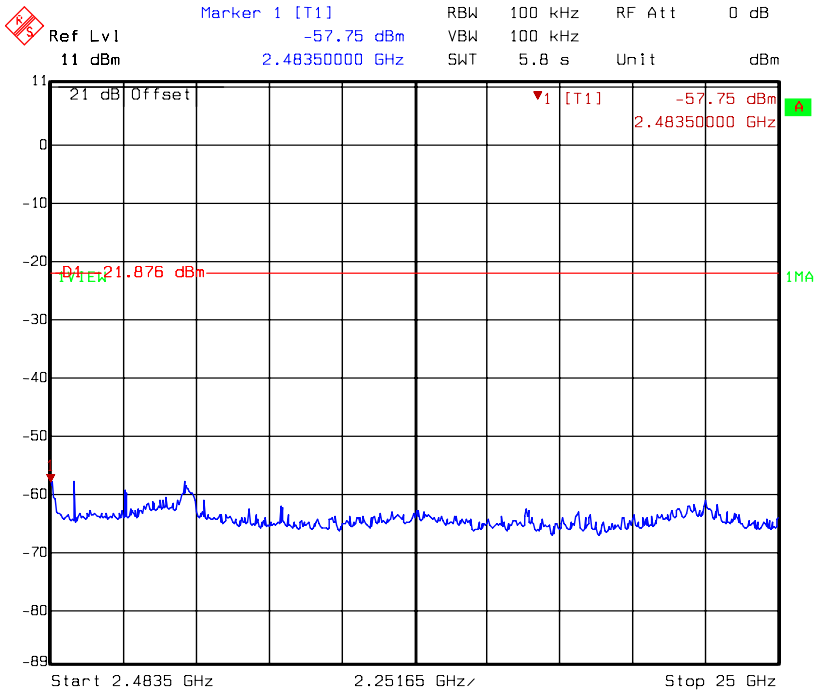
Title: Conductive-Spurious
Comment A: CH 1 at 802.11g mode 30MHz~2400MHzDAC1
Date: 24.NOV.2009 11:07:40

Chain 1: conducted spurious @ 802.11g mode channel 1 (2 of 3)



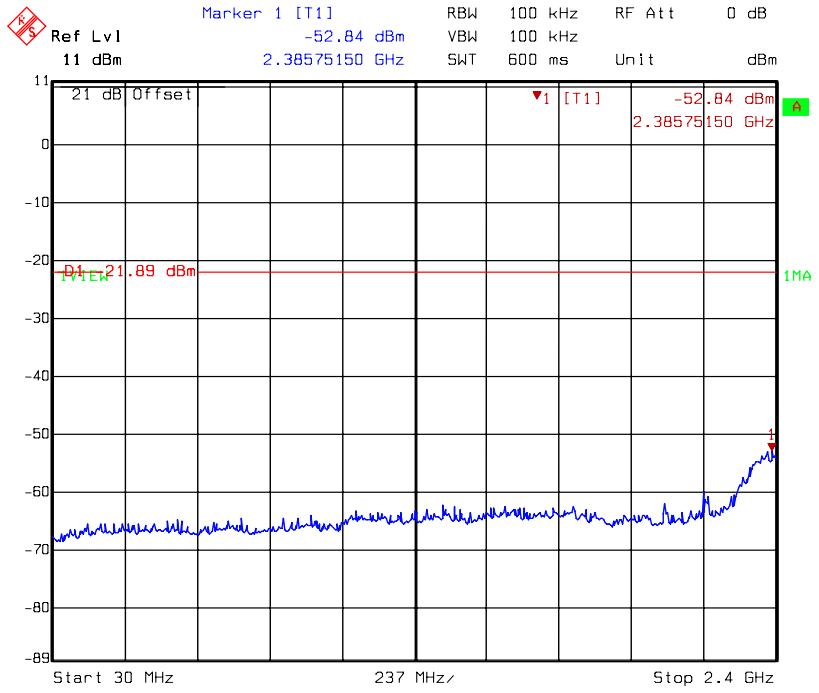
Title: Conductive-Spurious
Comment A: CH 1 at 802.11g mode 2400MHz~2483.5MHzDAC1
Date: 24.NOV.2009 11:07:19

Chain 1: conducted spurious @ 802.11g mode channel 1 (3 of 3)



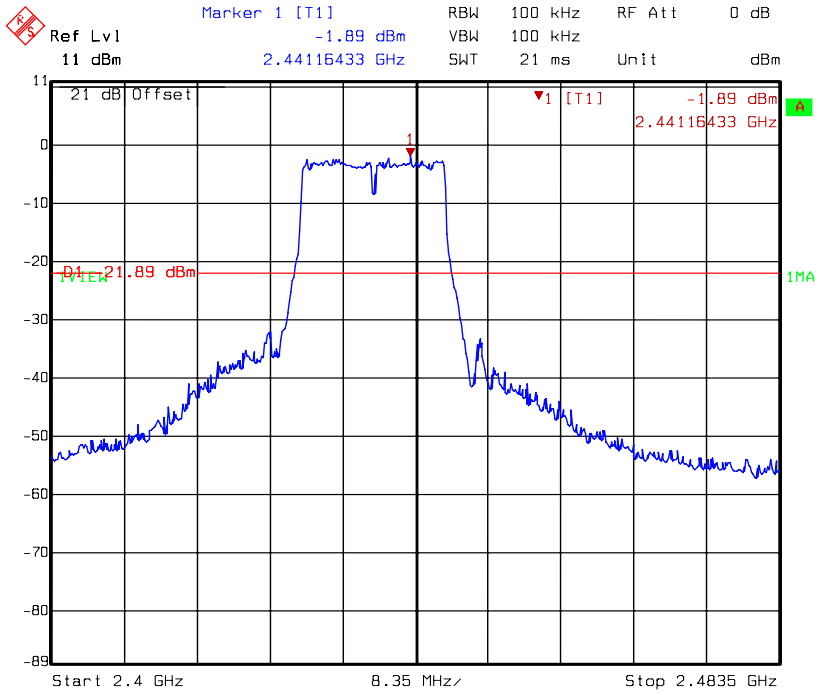
Title: Conductive-Spurious
Comment A: CH 1 at 802.11g mode 2483.5MHz~25000MHzDAC1
Date: 24.NOV.2009 11:08:08

Chain 1: conducted spurious @ 802.11g mode channel 6 (1 of 3)



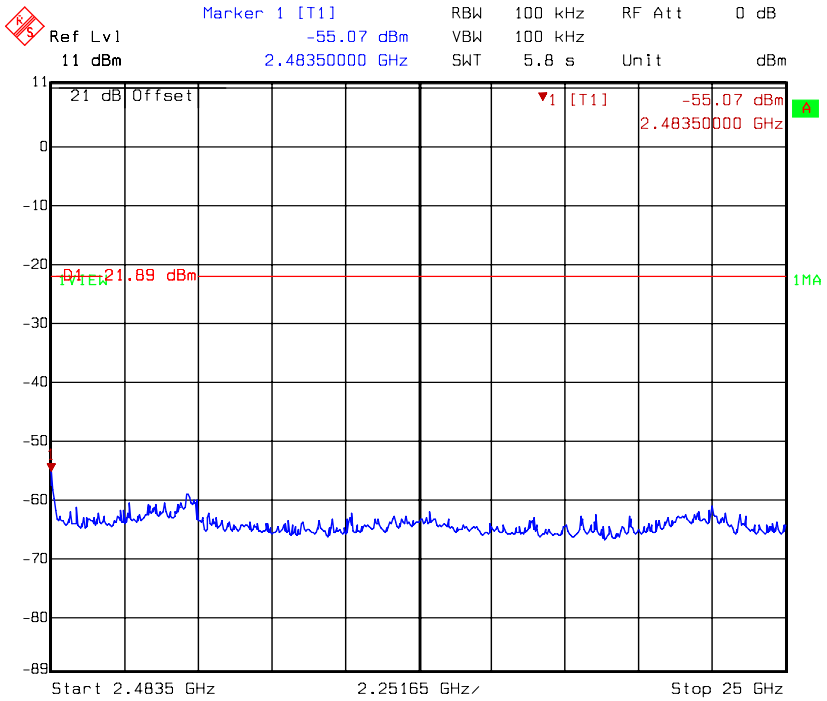
Title: Conductive-Spurious
Comment A: CH 6 at 802.11g mode 30MHz~2400MHzDAC1
Date: 24.NOV.2009 11:10:30

Chain 1: conducted spurious @ 802.11g mode channel 6 (2 of 3)



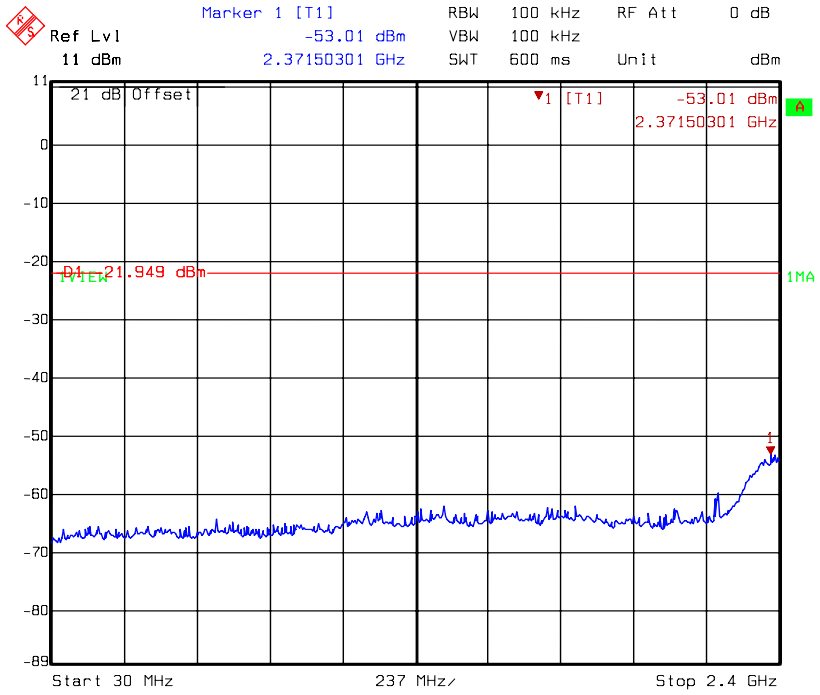
Title: Conductive-Spurious
Comment A: CH 6 at 802.11g mode 2400MHz~2483.5MHzDAC1
Date: 24.NOV.2009 11:10:09

Chain 1: conducted spurious @ 802.11g mode channel 6 (3 of 3)



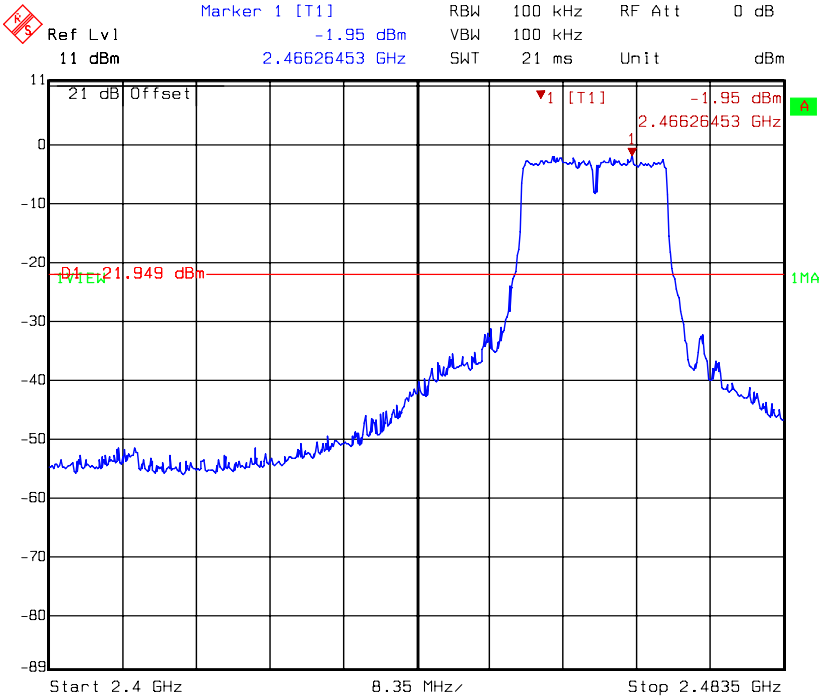
Title: Conductive-Spurious
Comment A: CH 6 at 802.11g mode 2483.5MHz~25000MHzDAC1
Date: 24.NOV.2009 11:10:57

Chain 1: conducted spurious @ 802.11g mode channel 11 (1 of 3)



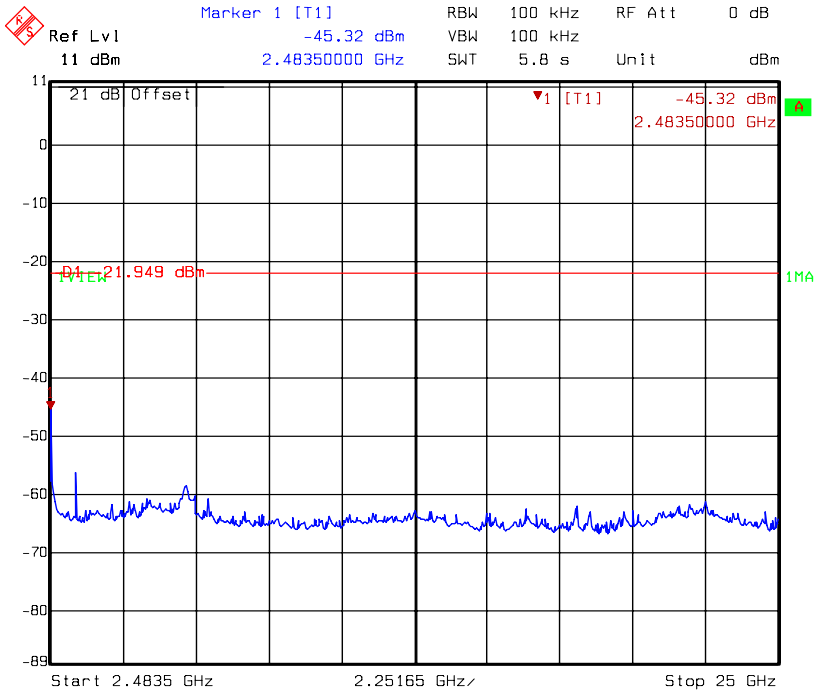
Title: Conductive-Spurious
Comment A: CH 11 at 802.11g mode 30MHz~2400MHzDAC1
Date: 24.NOV.2009 11:13:16

Chain 1: conducted spurious @ 802.11g mode channel 11 (2 of 3)



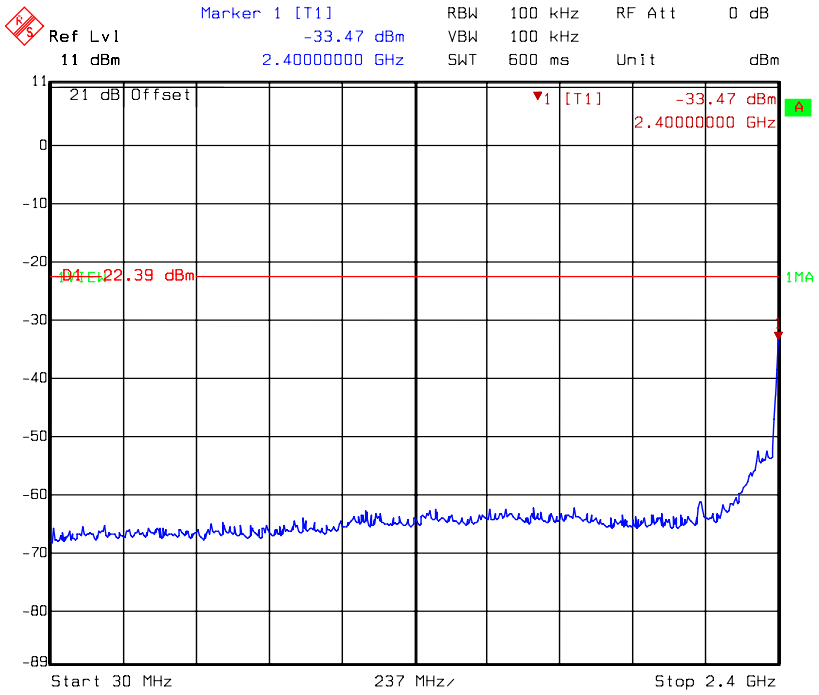
Title: Conductive-Spurious
Comment A: CH 11 at 802.11g mode 2400MHz~2483.5MHzDAC1
Date: 24.NOV.2009 11:12:55

Chain 1: conducted spurious @ 802.11g mode channel 11 (3 of 3)



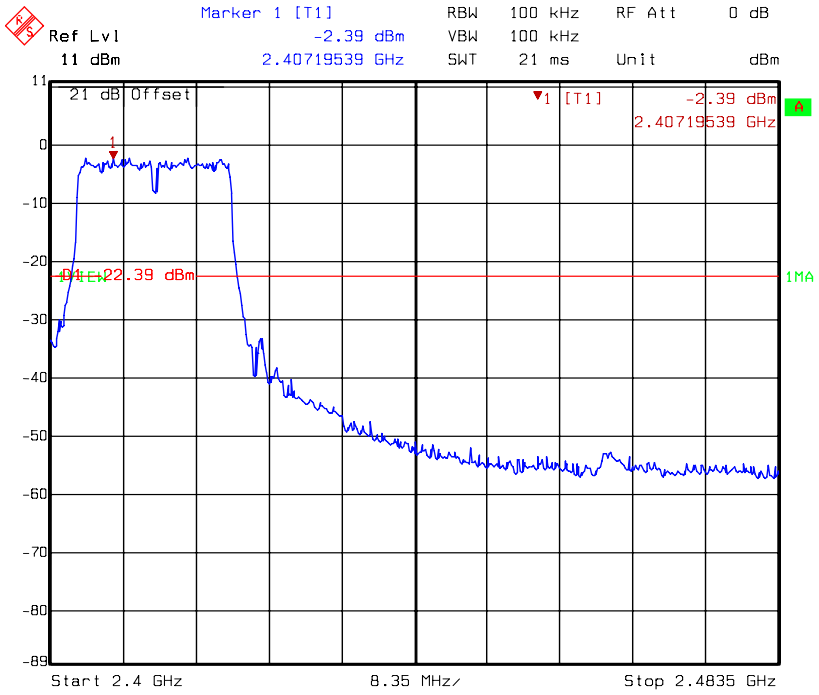
Title: Conductive-Spurious
Comment A: CH 11 at 802.11g mode 2483.5MHz~25000MHzDAC1
Date: 24.NOV.2009 11:13:43

Chain 1: conducted spurious @ 802.11n (HT20) mode channel 1 (1 of 3)



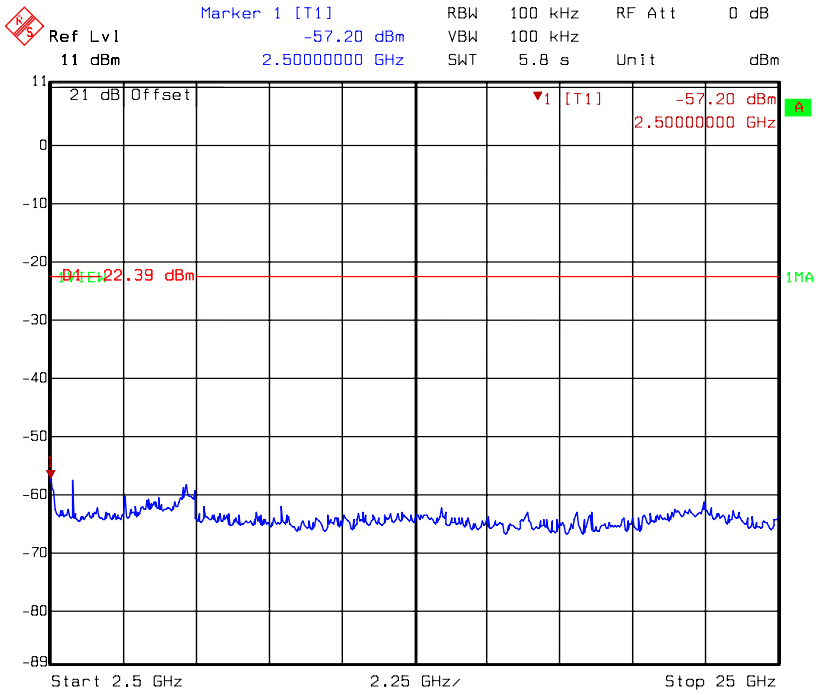
Title: Conductive-Spurious
Comment A: CH 1 at 802.11n 20MHz mode DAC1
Date: 24.NOV.2009 11:19:59

Chain 1: conducted spurious @ 802.11n (HT20) mode channel 1 (2 of 3)



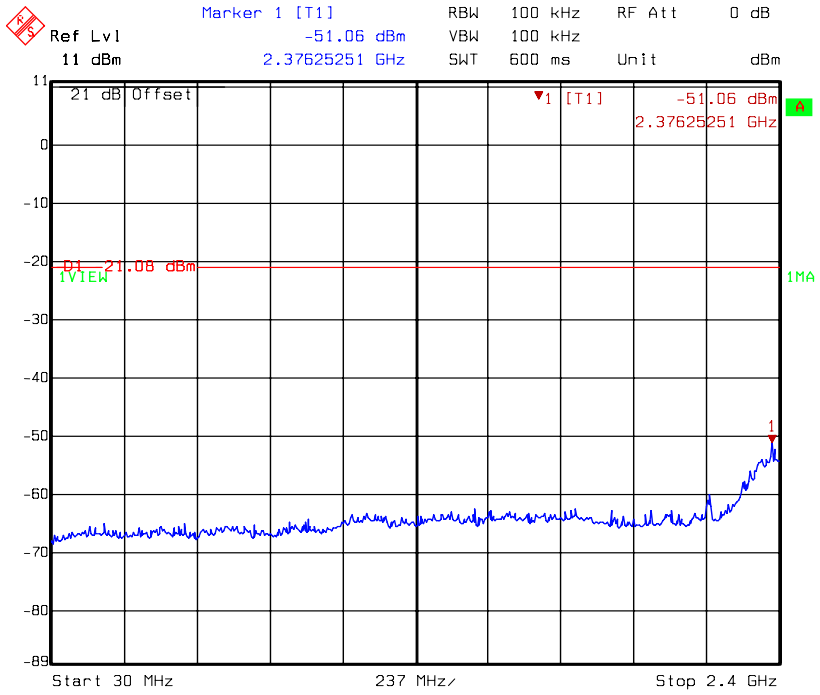
Title: Conductive-Spurious
Comment A: CH 1 at 802.11n 20MHz mode DAC1
Date: 24.NOV.2009 11:19:37

Chain 1: conducted spurious @ 802.11n (HT20) mode channel 1 (3 of 3)



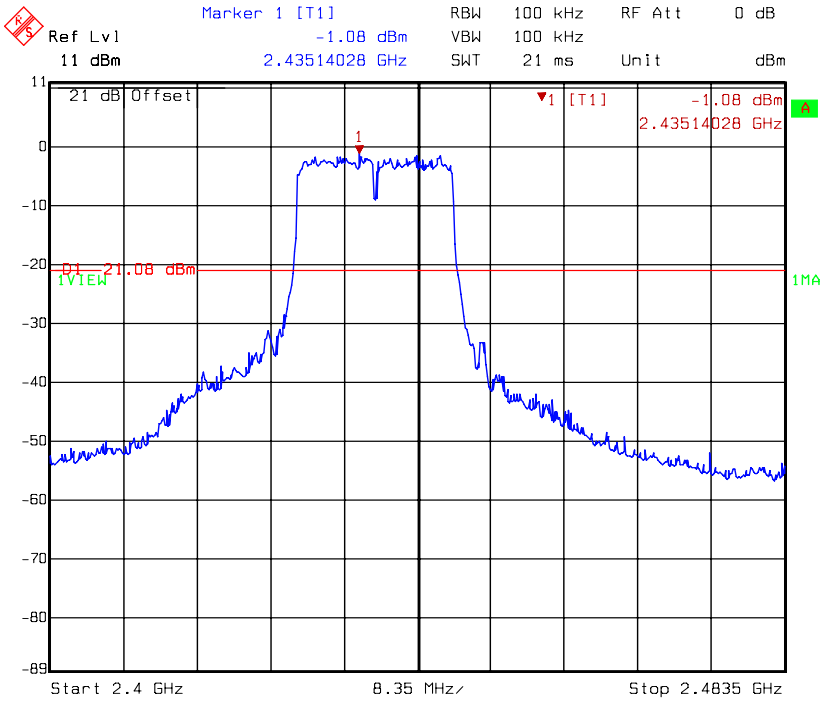
Title: Conductive-Spurious
Comment A: CH 1 at 802.11n 20MHz mode DAC1
Date: 24.NOV.2009 11:20:26

Chain 1: conducted spurious @ 802.11n (HT20) mode channel 6 (1 of 3)



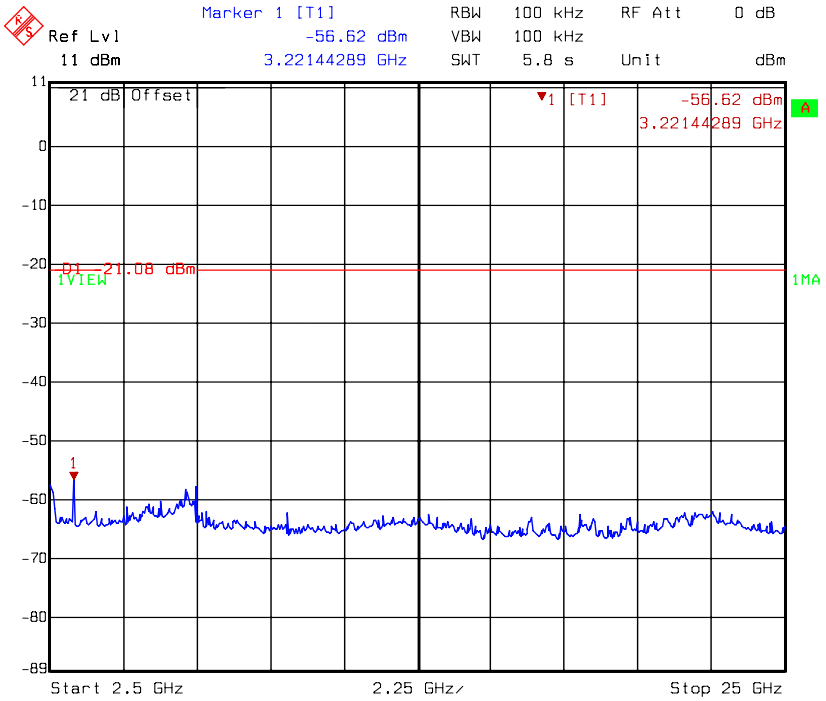
Title: Conductive-Spurious
Comment A: CH 6 at 802.11n 20MHz mode DAC1
Date: 24.NOV.2009 11:23:09

Chain 1: conducted spurious @ 802.11n (HT20) mode channel 6 (2 of 3)



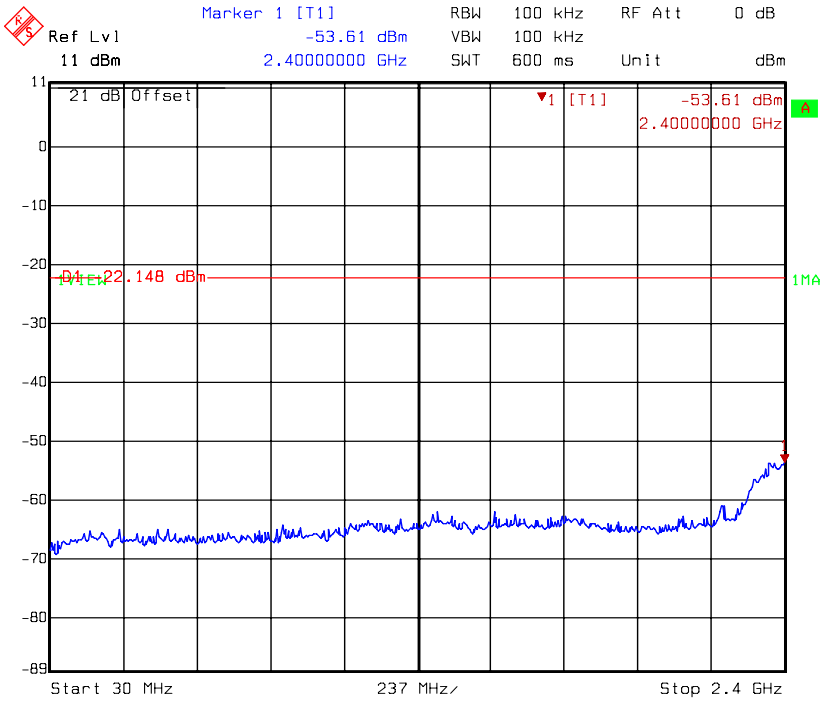
Title: Conductive-Spurious
Comment A: CH 6 at 802.11n 20MHz mode DAC1
Date: 24.NOV.2009 11:22:47

Chain 1: conducted spurious @ 802.11n (HT20) mode channel 6 (3 of 3)



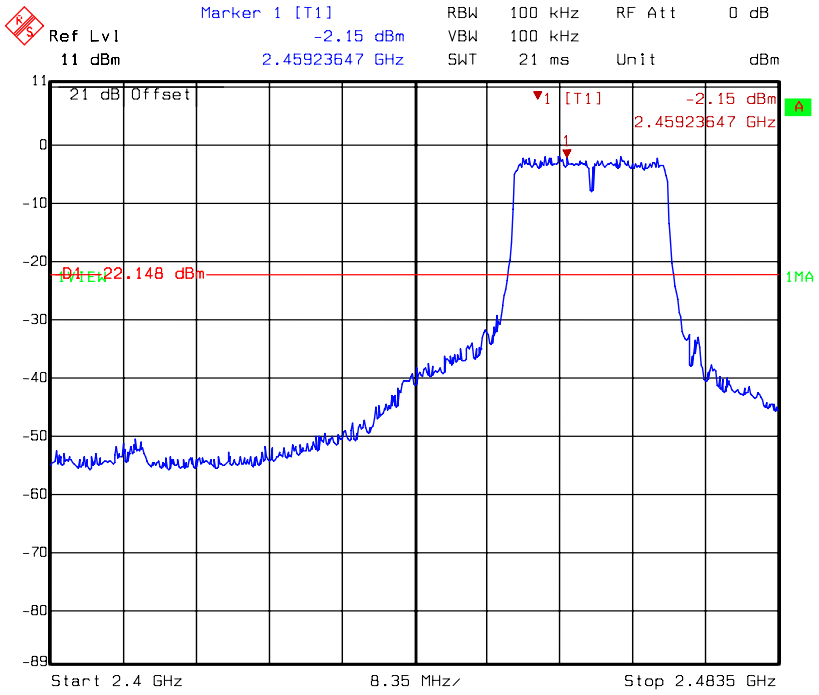
Title: Conductive-Spurious
Comment A: CH 6 at 802.11n 20MHz mode DAC1
Date: 24.NOV.2009 11:23:36

Chain 1: conducted spurious @ 802.11n (HT20) mode channel 11 (1 of 3)



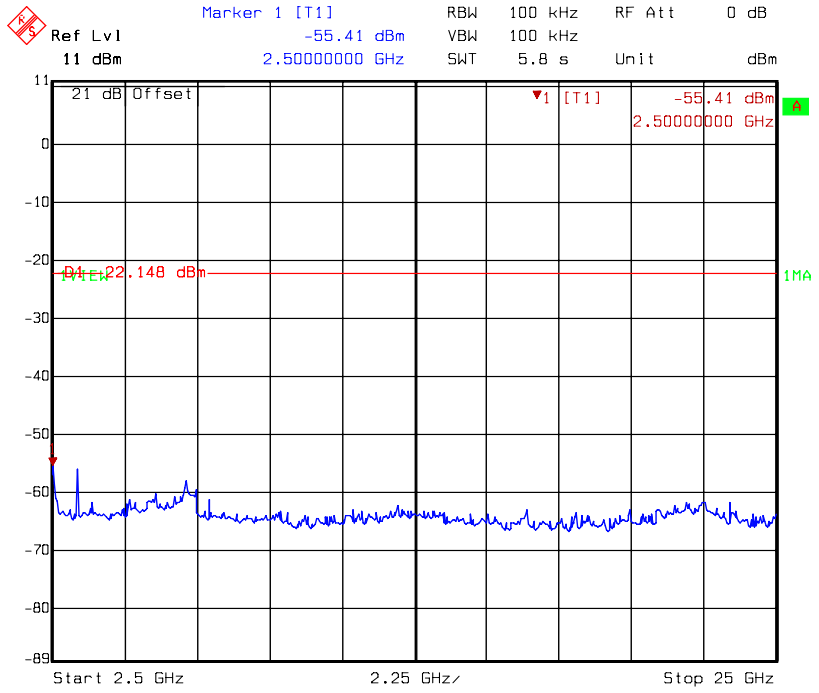
Title: Conductive-Spurious
Comment A: CH 11 at 802.11n 20MHz mode DAC1
Date: 24.NOV.2009 11:27:00

Chain 1: conducted spurious @ 802.11n (HT20) mode channel 11 (2 of 3)



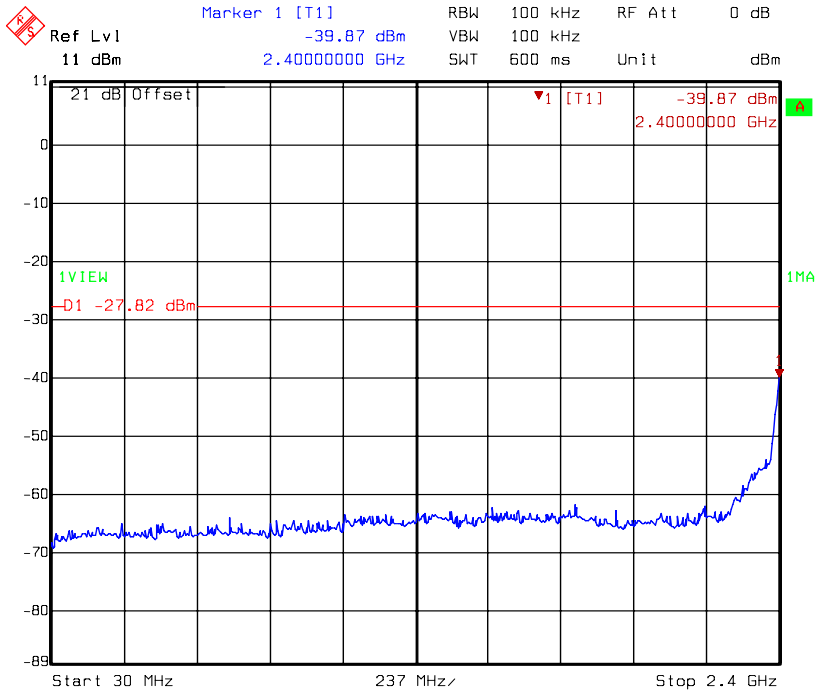
Title: Conductive-Spurious
Comment A: CH 11 at 802.11n 20MHz mode DAC1
Date: 24.NOV.2009 11:26:39

Chain 1: conducted spurious @ 802.11n (HT20) mode channel 11 (3 of 3)



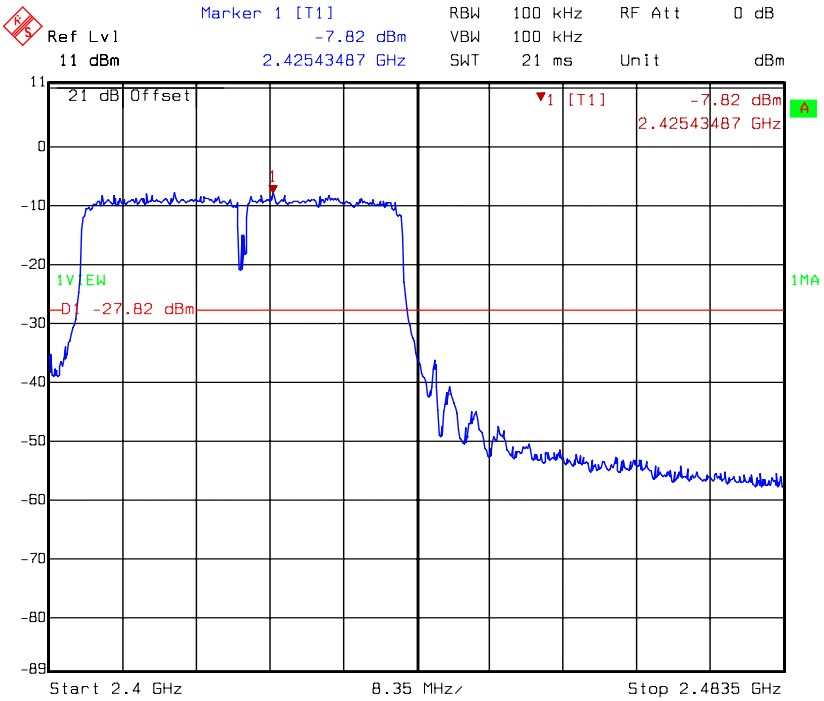
Title: Conductive-Spurious
Comment A: CH 11 at 802.11n 20MHz mode DAC1
Date: 24.NOV.2009 11:27:27

Chain 1: conducted spurious @ 802.11n (HT40) mode channel 3 (1 of 3)



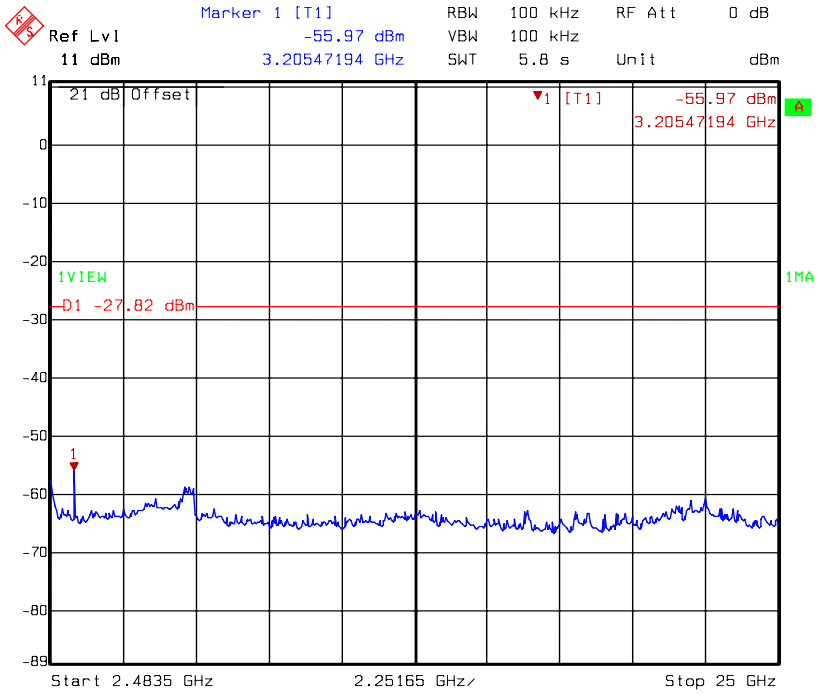
Title: Conductive-Spurious
Comment A: CH 3 at 802.11n 40MHz mode DAC1
Date: 24.NOV.2009 11:30:47

Chain 1: conducted spurious @ 802.11n (HT40) mode channel 3 (2 of 3)



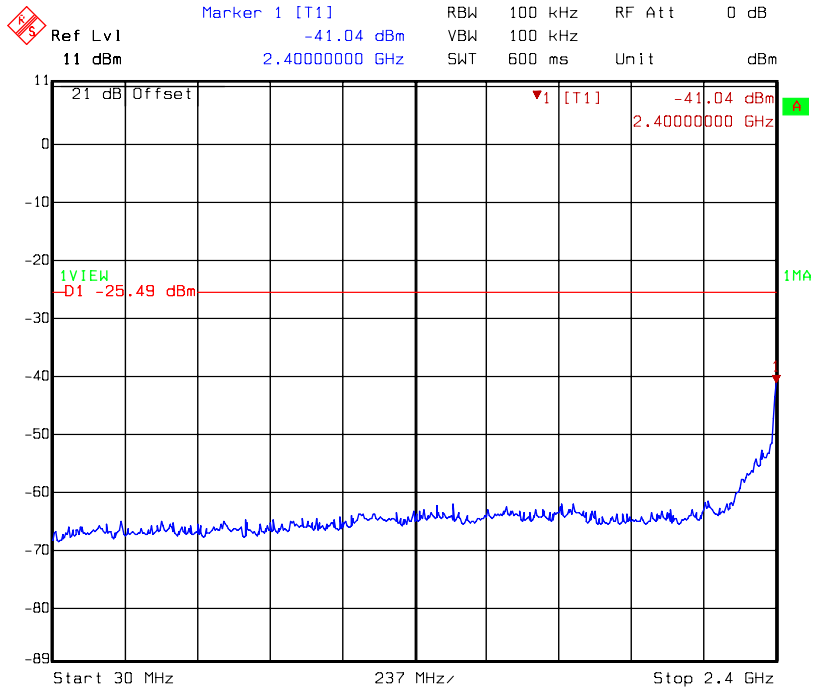
Title: Conductive-Spurious
Comment A: CH 3 at 802.11n 40MHz mode DAC1
Date: 24.NOV.2009 11:30:25

Chain 1: conducted spurious @ 802.11n (HT40) mode channel 3 (3 of 3)



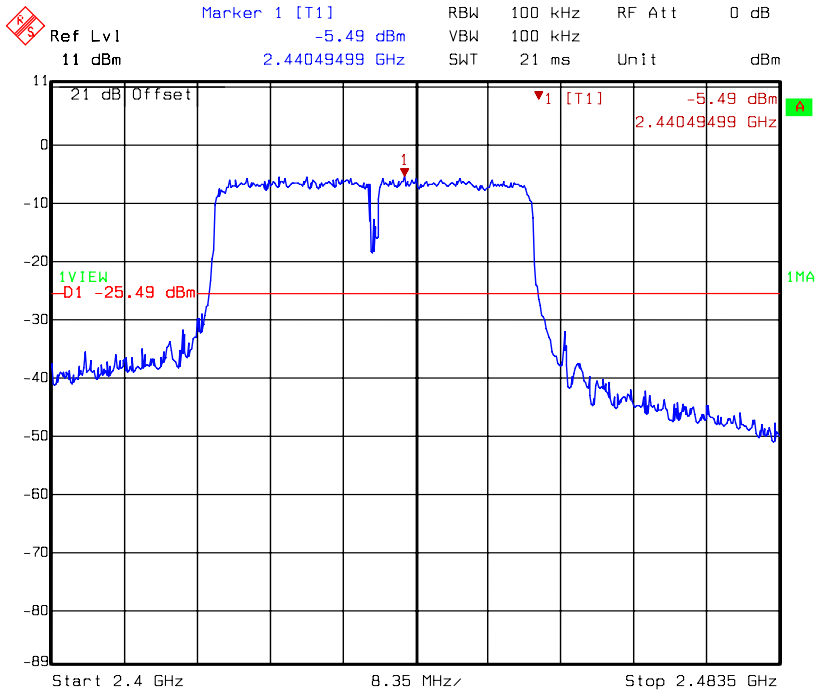
Title: Conductive-Spurious
Comment A: CH 3 at 802.11n 40MHz mode DAC1
Date: 24.NOV.2009 11:31:14

Chain 1: conducted spurious @ 802.11n (HT40) mode channel 6 (1 of 3)



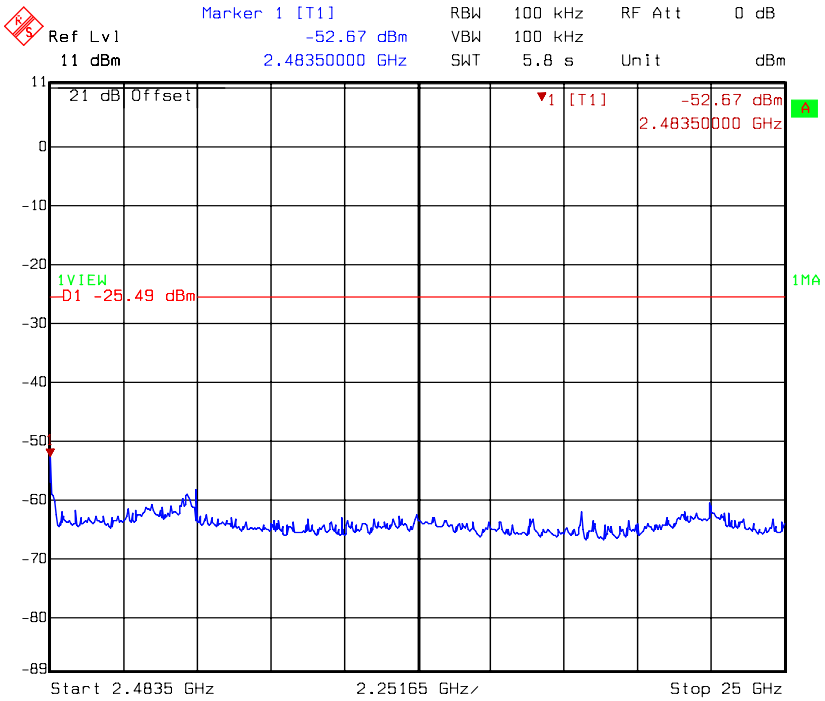
Title: Conductive-Spurious
Comment A: CH 6 at 802.11n 40MHz mode DAC1
Date: 24.NOV.2009 11:34:22

Chain 1: conducted spurious @ 802.11n (HT40) mode channel 6 (2 of 3)



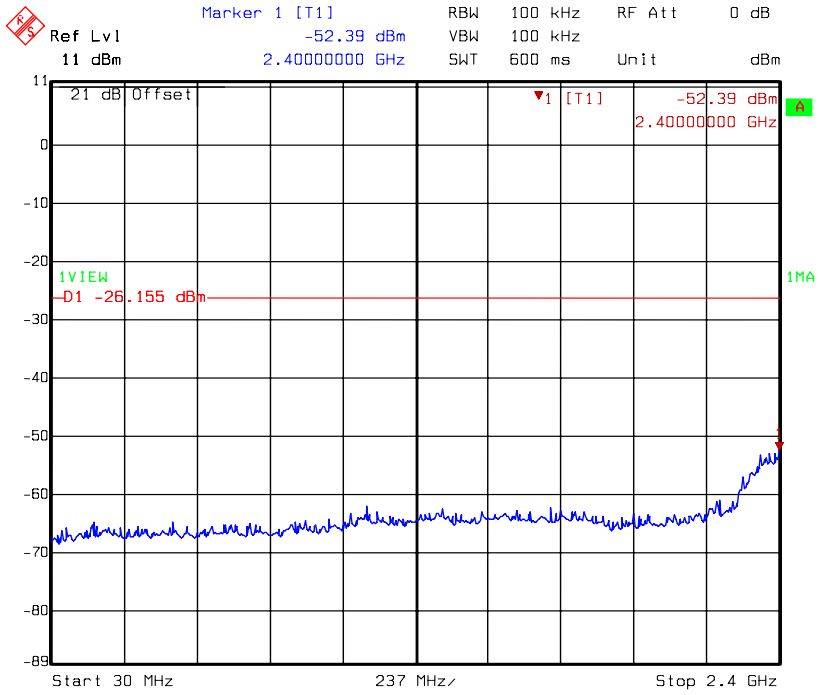
Title: Conductive-Spurious
Comment A: CH 6 at 802.11n 40MHz mode DAC1
Date: 24.NOV.2009 11:34:01

Chain 1: conducted spurious @ 802.11n (HT40) mode channel 6 (3 of 3)



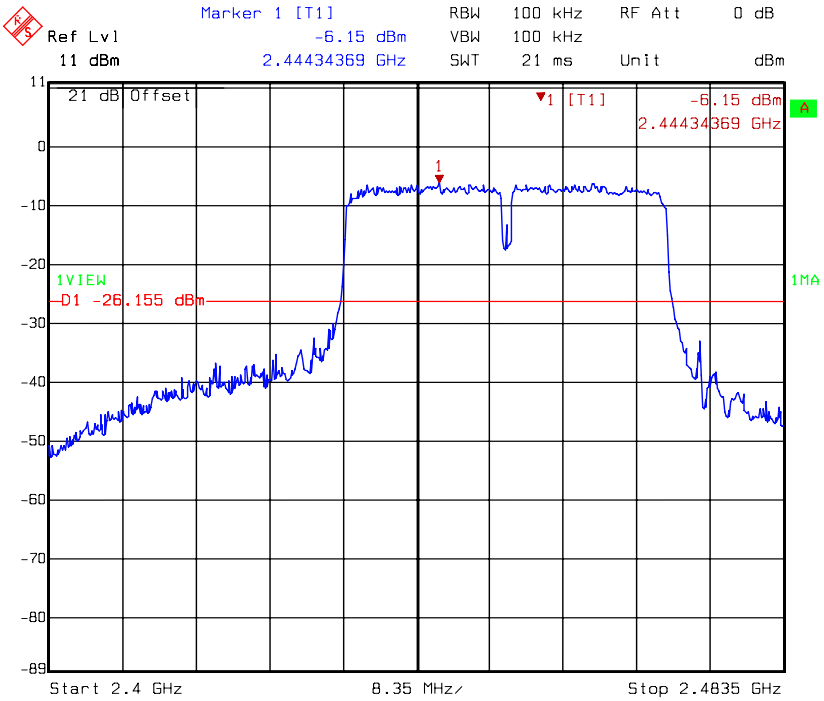
Title: Conductive-Spurious
Comment A: CH 6 at 802.11n 40MHz mode DAC1
Date: 24.NOV.2009 11:34:49

Chain 1: conducted spurious @ 802.11n (HT40) mode channel 9 (1 of 3)



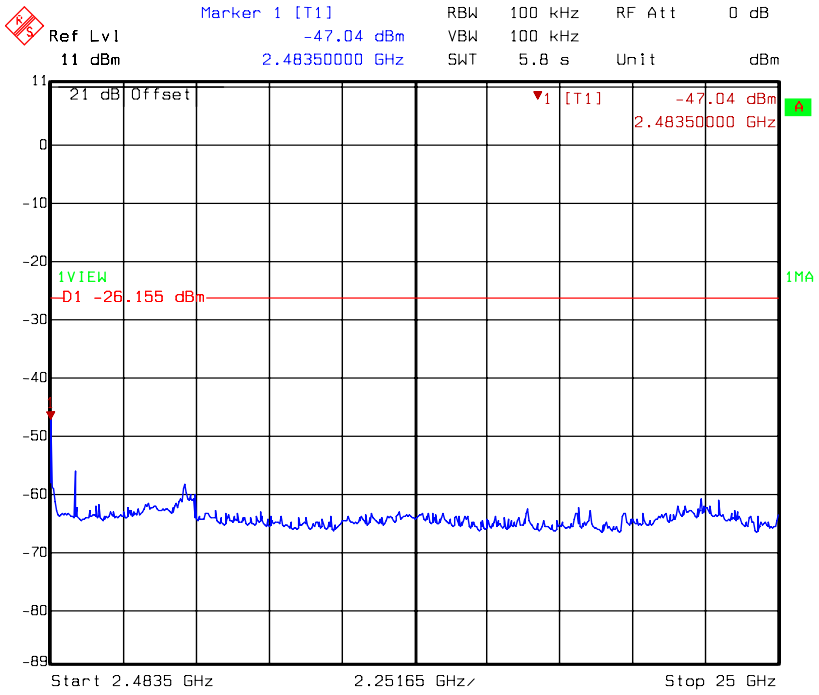
Title: Conductive-Spurious
Comment A: CH 9 at 802.11n 40MHz mode DAC1
Date: 24.NOV.2009 11:37:09

Chain 1: conducted spurious @ 802.11n (HT40) mode channel 9 (2 of 3)



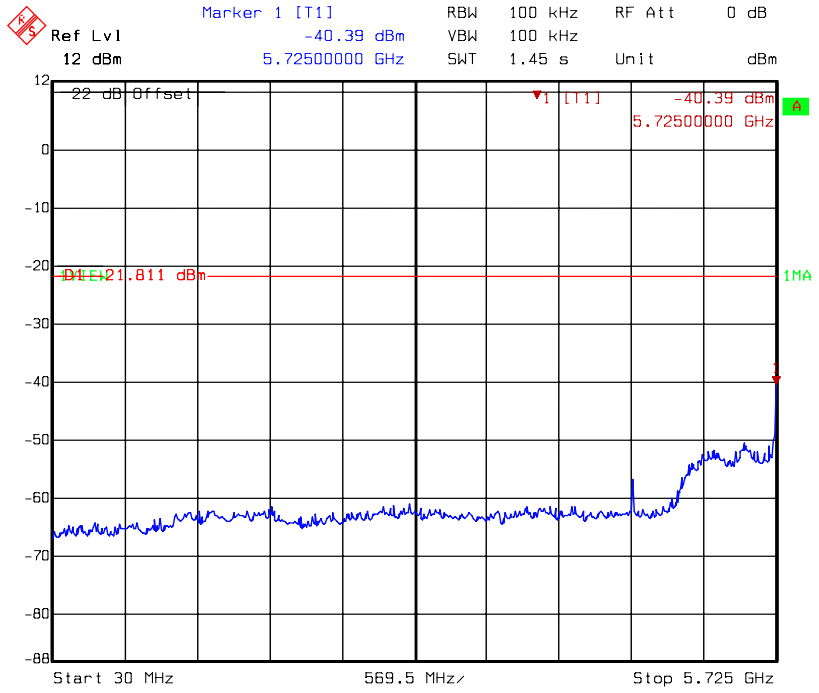
Title: Conductive-Spurious
Comment A: CH 9 at 802.11n 40MHz mode DAC1
Date: 24.NOV.2009 11:36:48

Chain 1: conducted spurious @ 802.11n (HT40) mode channel 9 (3 of 3)



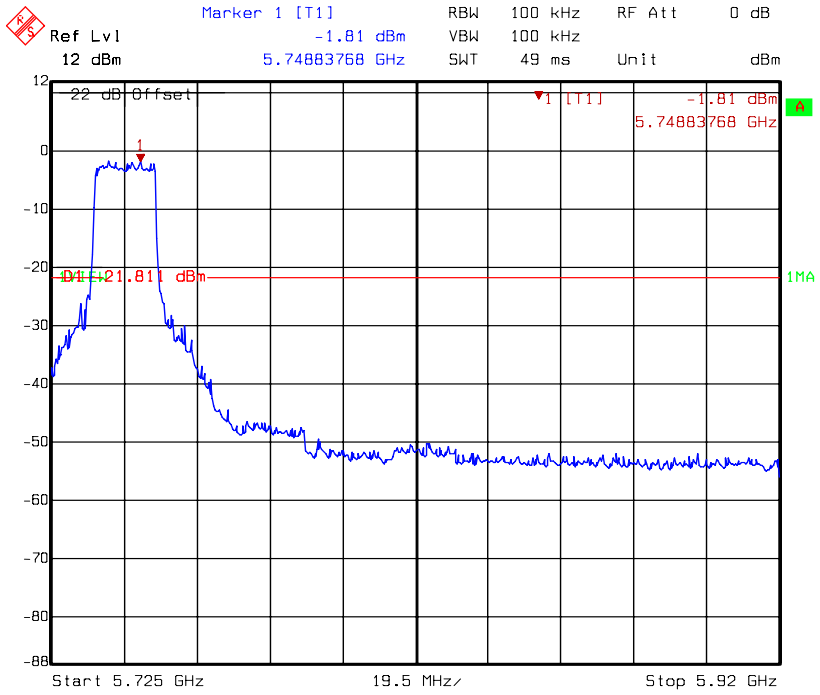
Title: Conductive-Spurious
Comment A: CH 9 at 802.11n 40MHz mode DAC1
Date: 24.NOV.2009 11:37:36

Chain 1: conducted spurious @ 802.11a mode channel 149 (1 of 4)



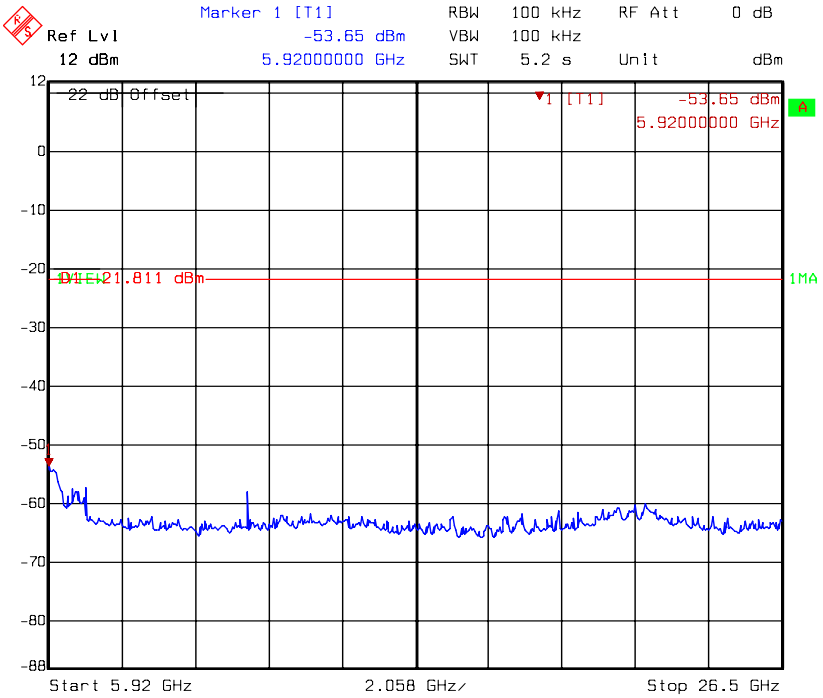
Title: Conductive-Spurious
Comment A: CH 149 at 802.11a mode 30MHz~5725MHzDAC1
Date: 24.NOV.2009 11:50:39

Chain 1: conducted spurious @ 802.11a mode channel 149 (2 of 4)



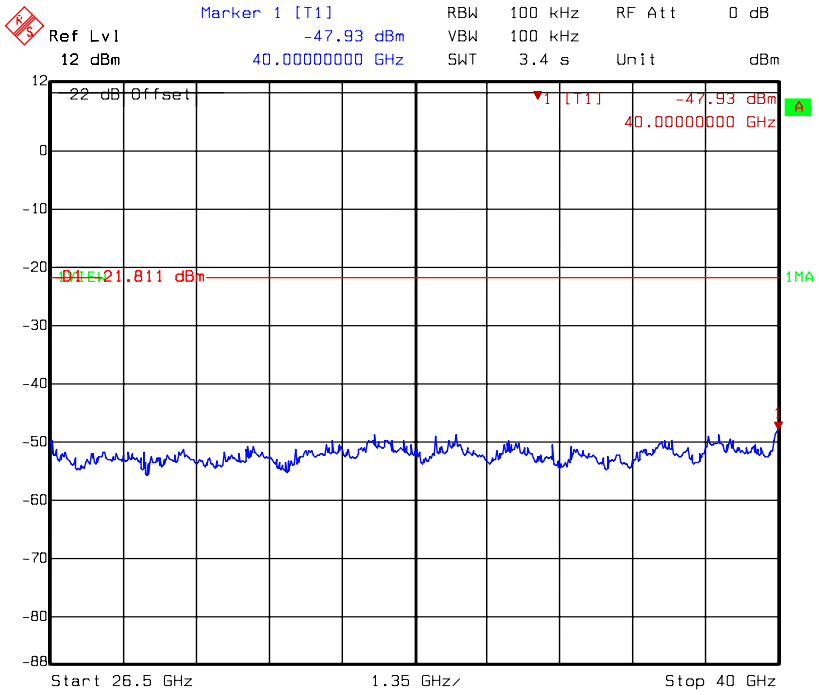
Title: Conductive-Spurious
Comment A: CH 149 at 802.11a mode 5725MHz~5920MHzDAC1
Date: 24.NOV.2009 11:50:18

Chain 1: conducted spurious @ 802.11a mode channel 149 (3 of 4)



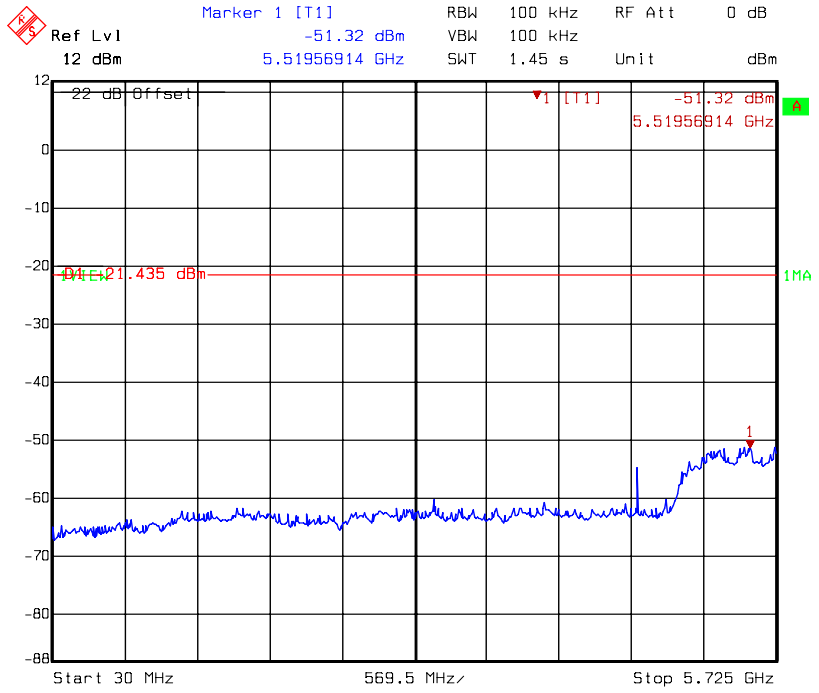
Title: Conductive-Spurious
Comment A: CH 149 at 802.11a mode 5925MHz~26500MHzDAC1
Date: 24.NOV.2009 11:51:05

Chain 1: conducted spurious @ 802.11a mode channel 149 (4 of 4)



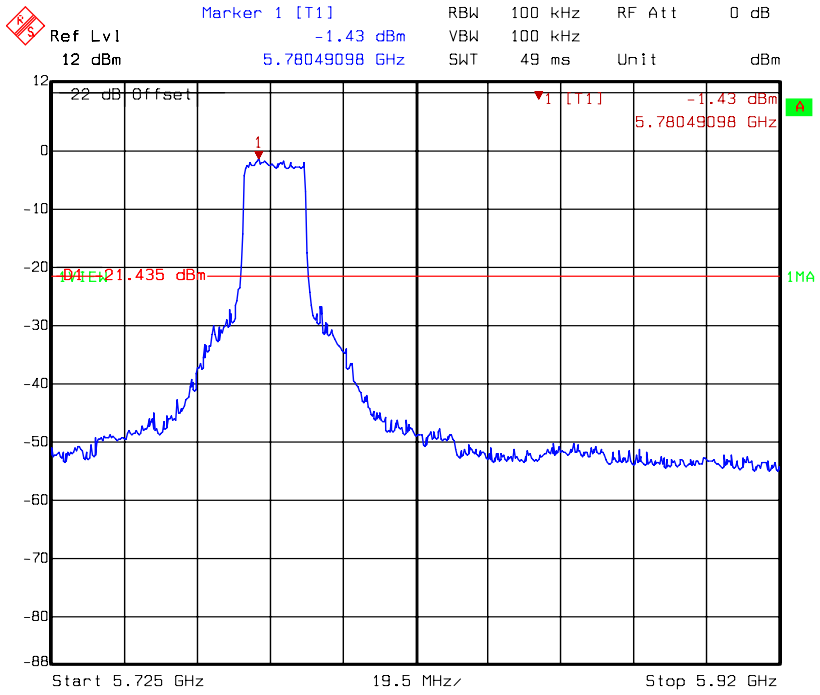
Title: Conductive-Spurious
Comment A: CH 149 at 802.11a mode 26500MHz~40000MHzDAC1
Date: 24.NOV.2009 11:51:28

Chain 1: conducted spurious @ 802.11a mode channel 157 (1 of 4)



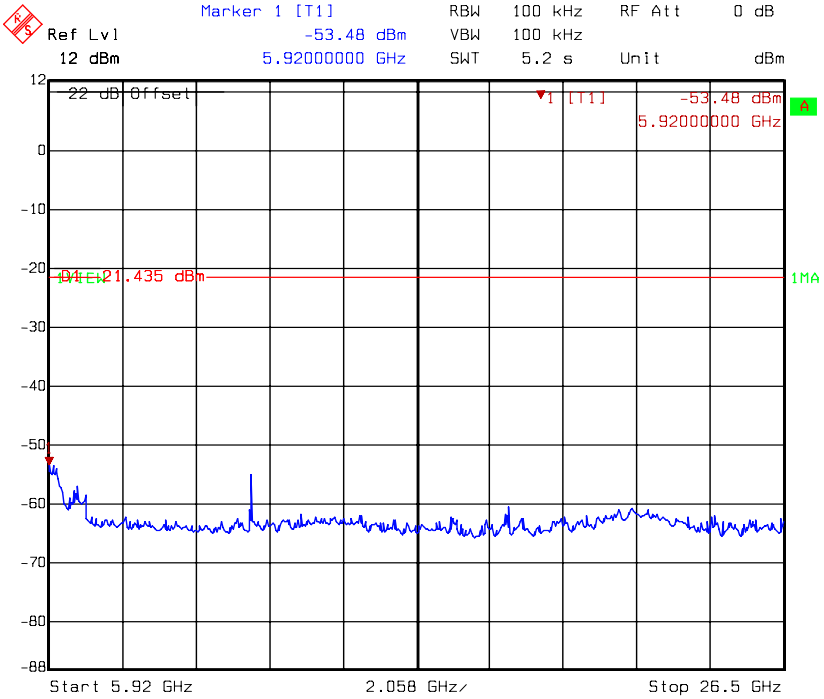
Title: Conductive-Spurious
Comment A: CH 157 at 802.11a mode 30MHz~5725MHzDAC1
Date: 24.NOV.2009 12:06:02

Chain 1: conducted spurious @ 802.11a mode channel 157 (2 of 4)



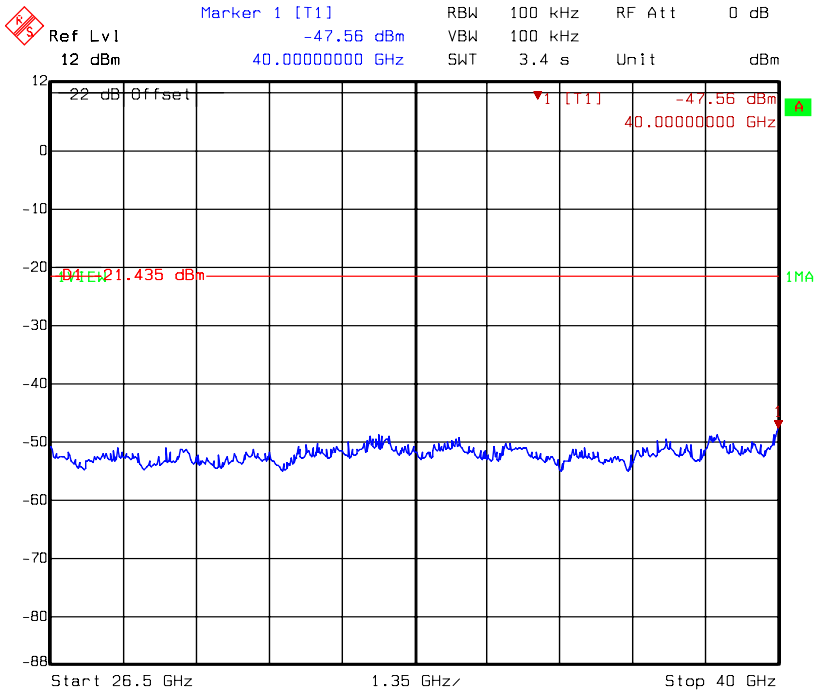
Title: Conductive-Spurious
Comment A: CH 157 at 802.11a mode 5725MHz~5920MHzDAC1
Date: 24.NOV.2009 12:05:40

Chain 1: conducted spurious @ 802.11a mode channel 157 (3 of 4)



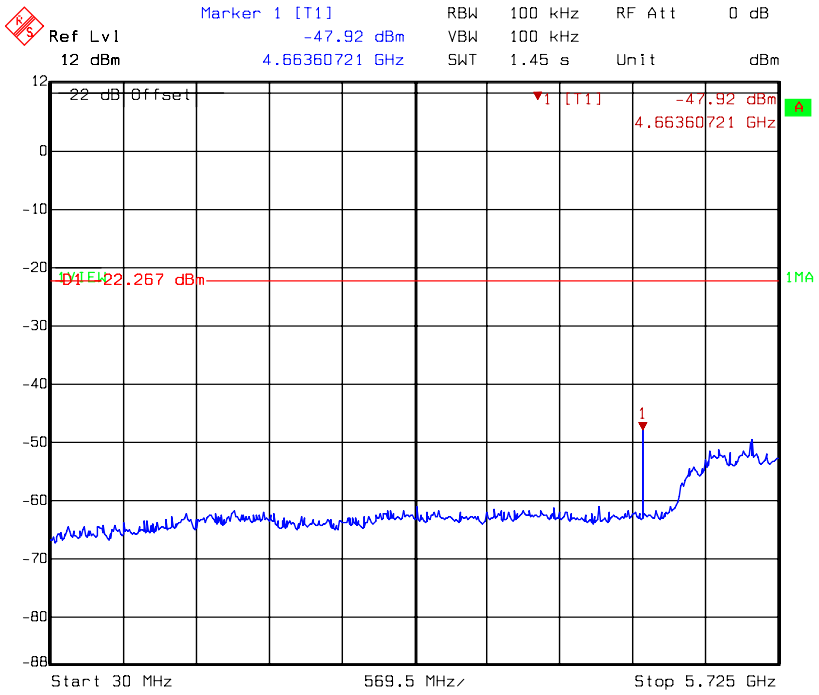
Title: Conductive-Spurious
Comment A: CH 157 at 802.11a mode 5925MHz~26500MHzDAC1
Date: 24.NOV.2009 12:06:28

Chain 1: conducted spurious @ 802.11a mode channel 157 (4 of 4)



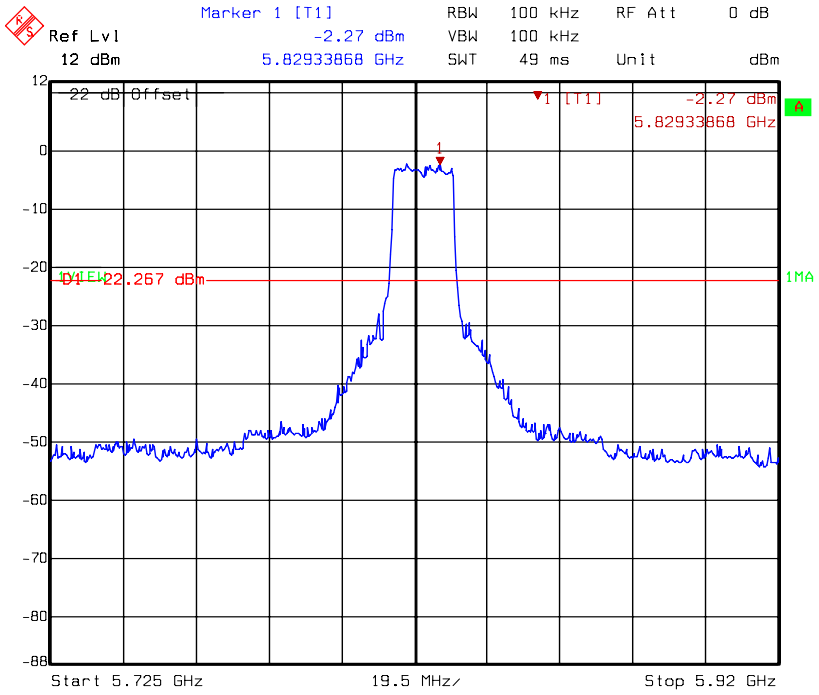
Title: Conductive-Spurious
Comment A: CH 157 at 802.11a mode 26500MHz~40000MHzDAC1
Date: 24.NOV.2009 12:06:50

Chain 1: conducted spurious @ 802.11a mode channel 165 (1 of 4)



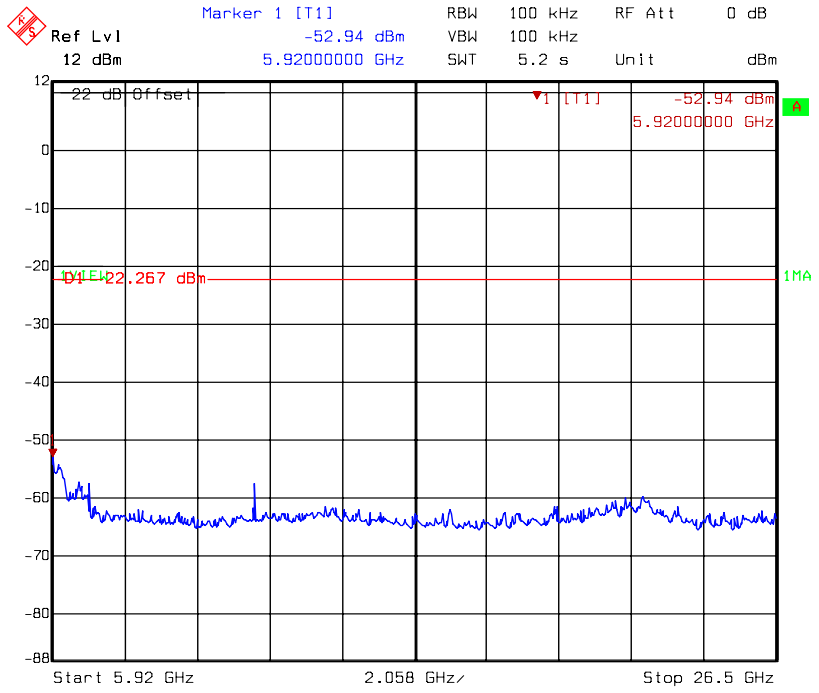
Title: Conductive-Spurious
Comment A: CH 165 at 802.11a mode 30MHz~5725MHzDAC1
Date: 24.NOV.2009 12:09:44

Chain 1: conducted spurious @ 802.11a mode channel 165 (2 of 4)



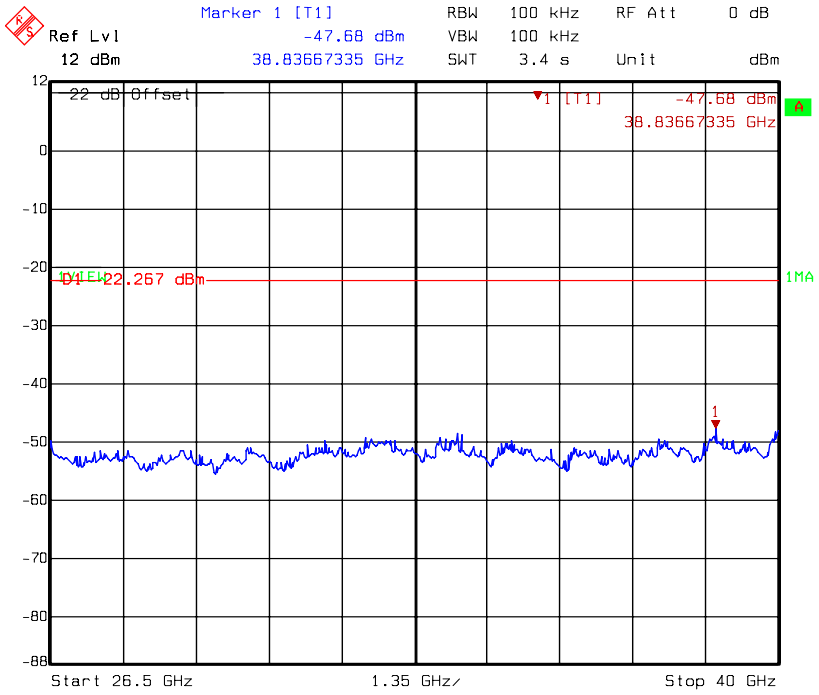
Title: Conductive-Spurious
Comment A: CH 165 at 802.11a mode 5725MHz~5920MHzDAC1
Date: 24.NOV.2009 12:09:23

Chain 0: conducted spurious @ 802.11a mode channel 165 (3 of 4)



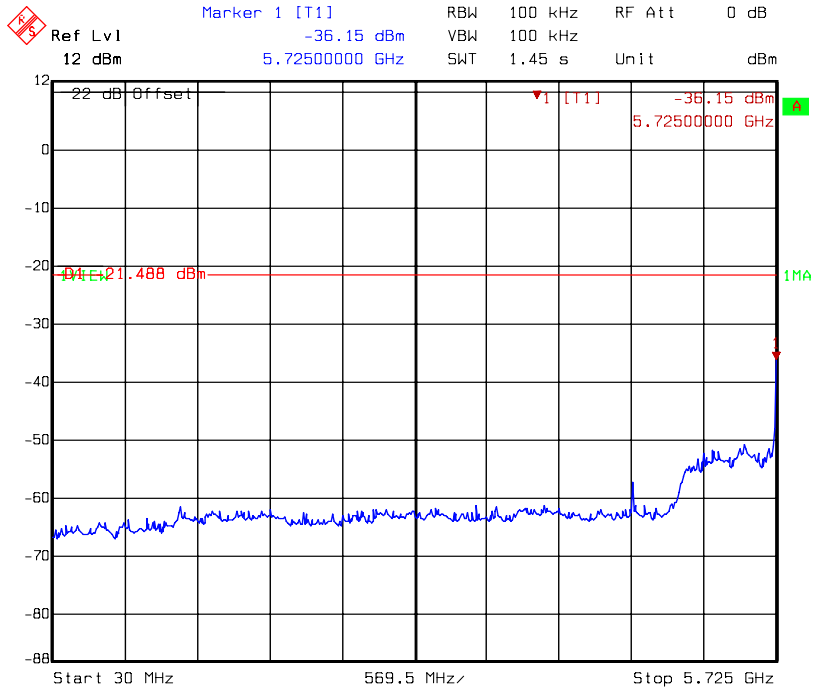
Title: Conductive-Spurious
Comment A: CH 165 at 802.11a mode 5925MHz~26500MHzDAC1
Date: 24.NOV.2009 12:10:10

Chain 1: conducted spurious @ 802.11a mode channel 165 (4 of 4)



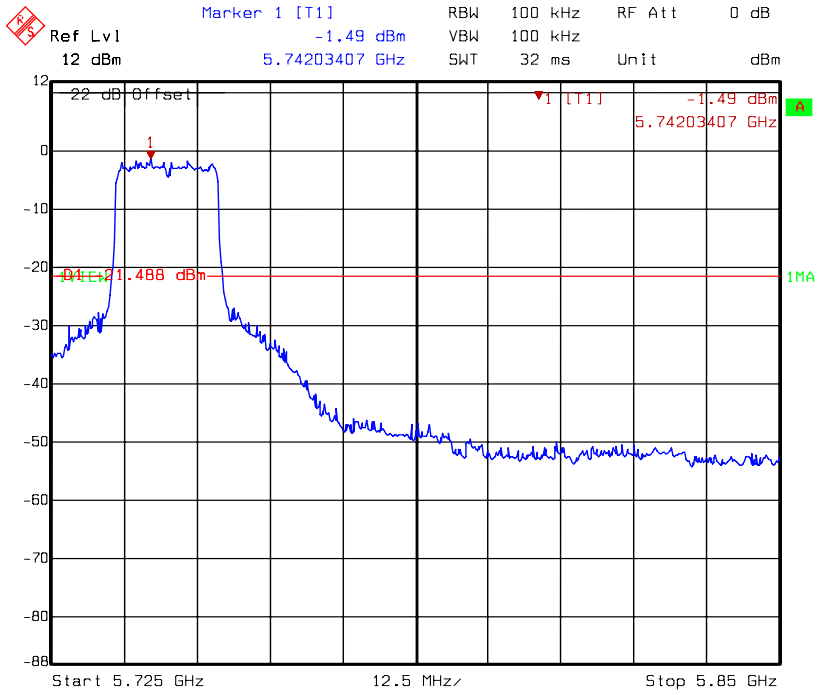
Title: Conductive-Spurious
Comment A: CH 165 at 802.11a mode 26500MHz~40000MHzDAC1
Date: 24.NOV.2009 12:10:33

Chain 1: conducted spurious @ 802.11n (HT20) mode channel 149 (1 of 3)



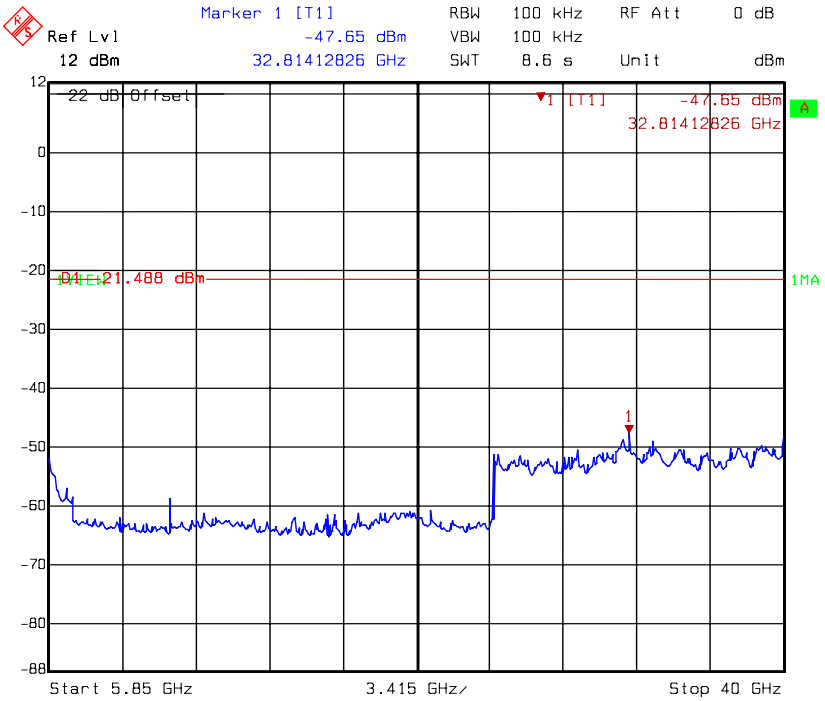
Title: Conductive-Spurious
Comment A: CH 149 at 802.11n 20MHz mode DAC1
Date: 24.NOV.2009 13:38:09

Chain 1: conducted spurious @ 802.11n (HT20) mode channel 149 (2 of 3)



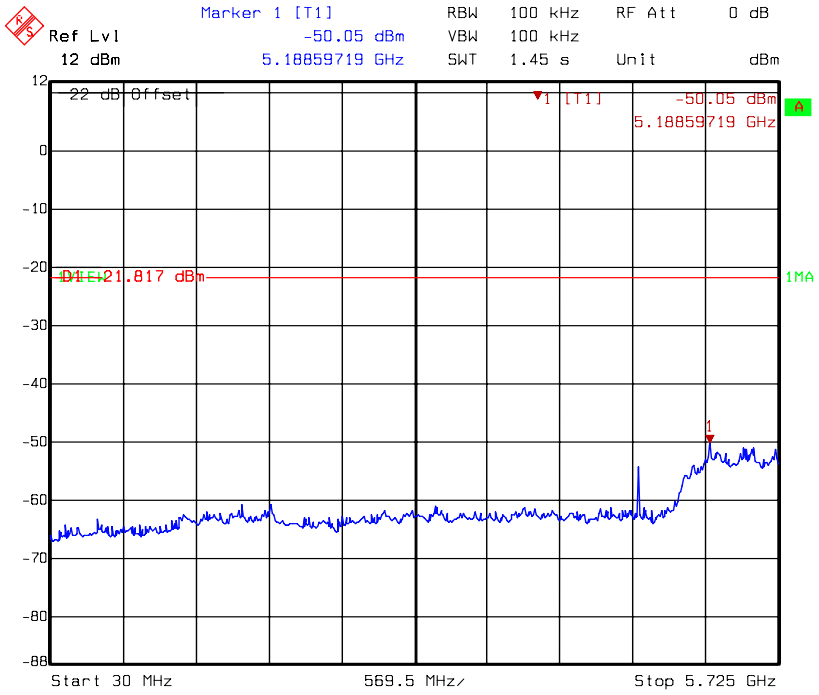
Title: Conductive-Spurious
Comment A: CH 149 at 802.11n 20MHz mode DAC1
Date: 24.NOV.2009 13:37:48

Chain 1: conducted spurious @ 802.11n (HT20) mode channel 149 (3 of 3)



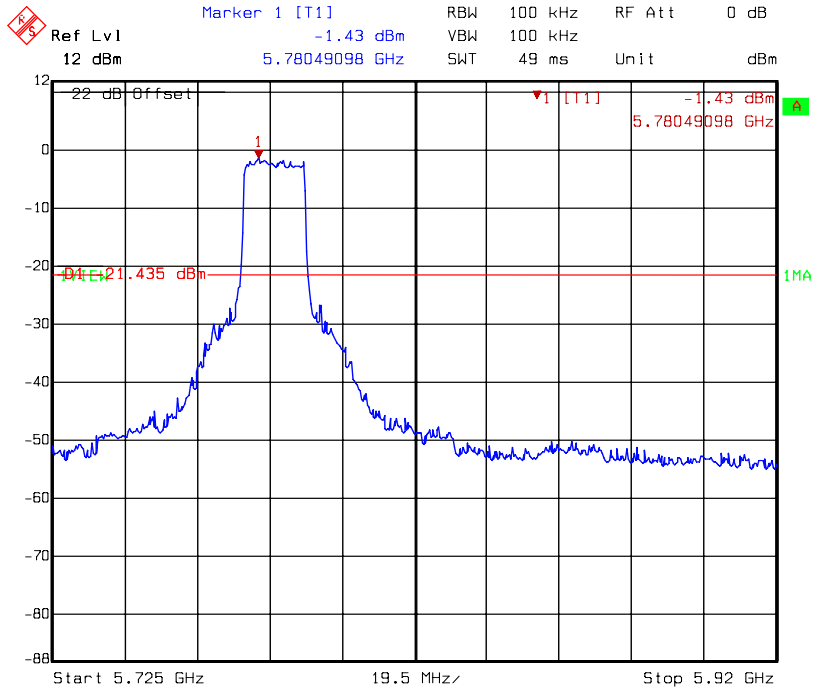
Title: Conductive-Spurious
Comment A: CH 149 at 802.11n 20MHz mode DAC1
Date: 24.NOV.2009 13:38:42

Chain 1: conducted spurious @ 802.11n (HT20) mode channel 157 (1 of 3)



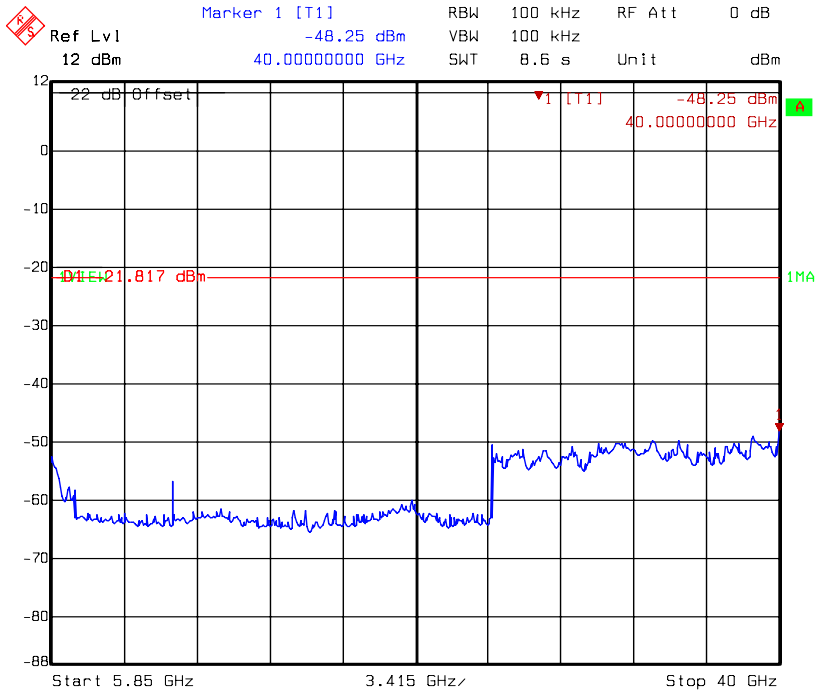
Title: Conductive-Spurious
Comment A: CH 157 at 802.11n 20MHz mode DAC1
Date: 24.NOV.2009 13:41:22

Chain 1: conducted spurious @ 802.11n (HT20) mode channel 157 (2 of 3)



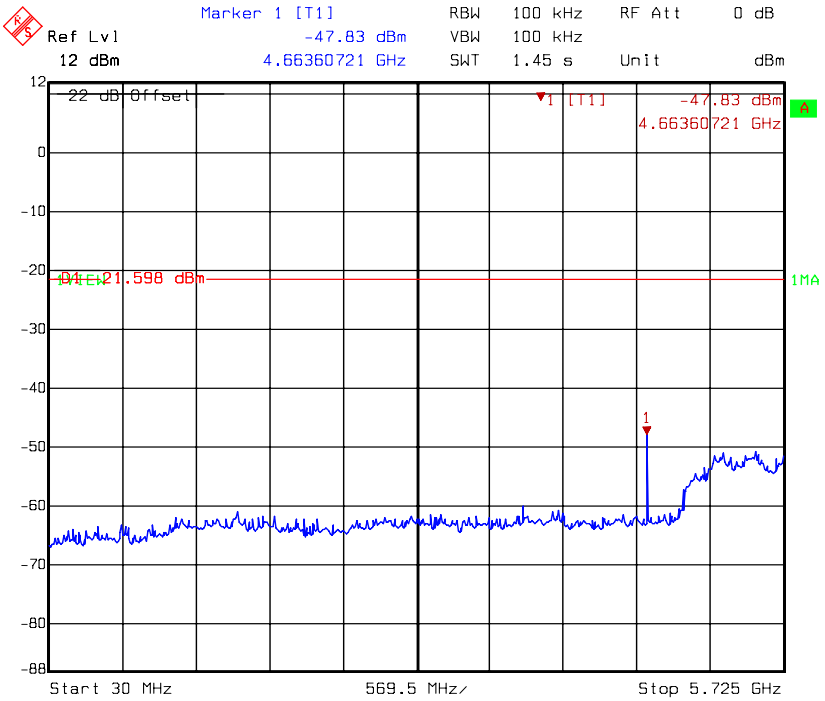
Title: Conductive-Spurious
Comment A: CH 157 at 802.11a mode 5725MHz~5920MHzDAC1
Date: 24.NOV.2009 12:05:40

Chain 1: conducted spurious @ 802.11n (HT20) mode channel 157 (3 of 3)



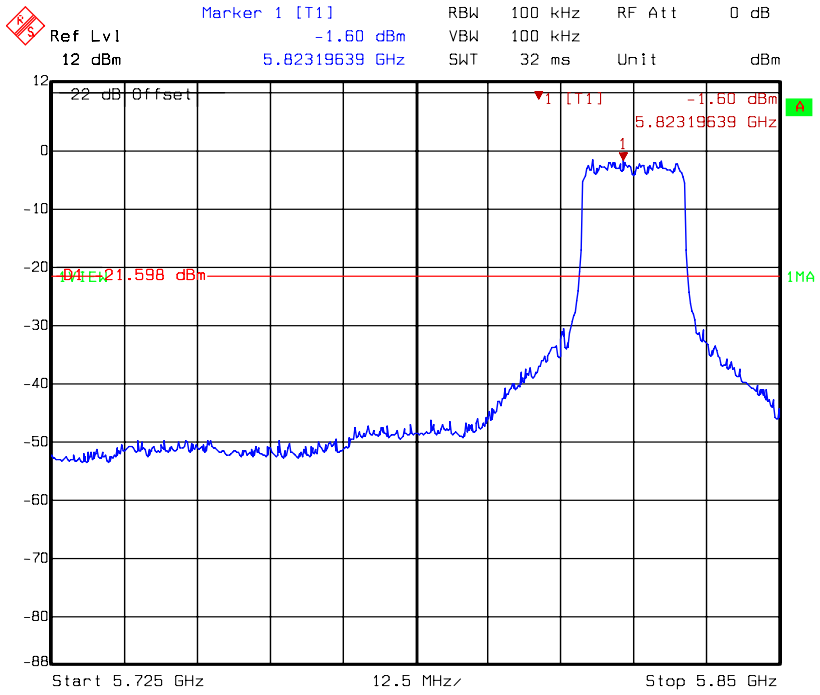
Title: Conductive-Spurious
Comment A: CH 157 at 802.11n 20MHz mode DAC1
Date: 24.NOV.2009 13:41:54

Chain 1: conducted spurious @ 802.11n (HT20) mode channel 165 (1 of 3)



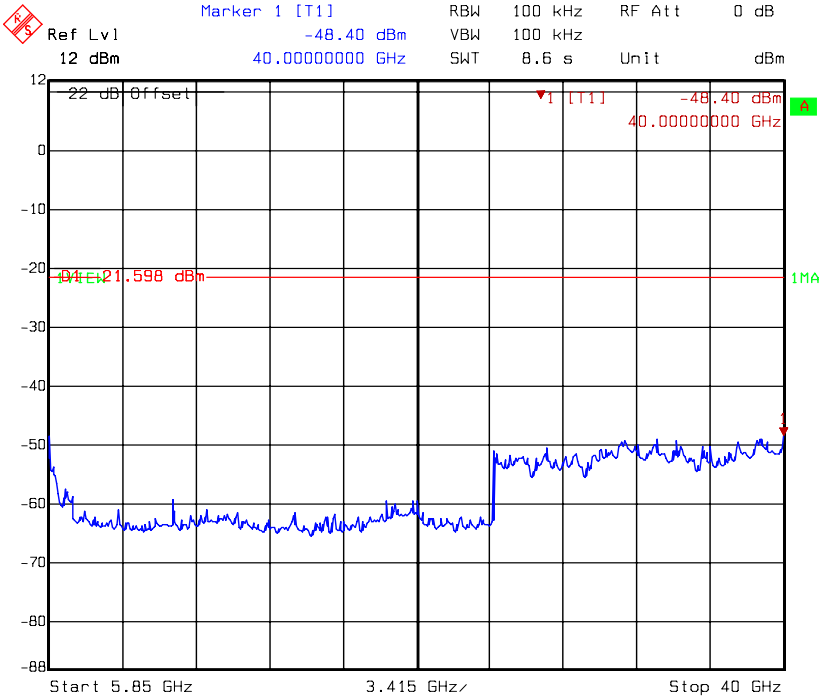
Title: Conductive-Spurious
Comment A: CH 165 at 802.11n 20MHz mode DAC1
Date: 24.NOV.2009 13:45:22

Chain 1: conducted spurious @ 802.11n (HT20) mode channel 165 (2 of 3)



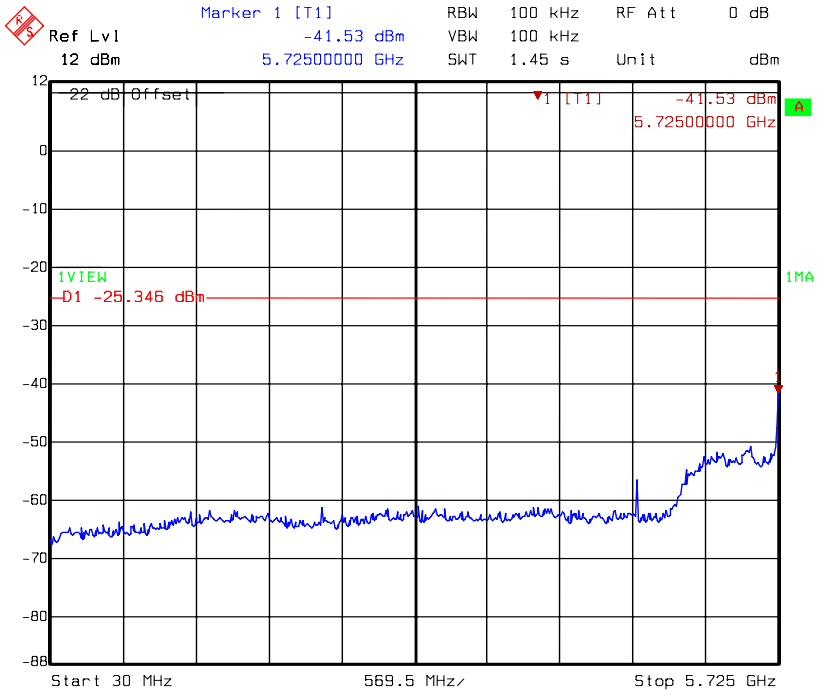
Title: Conductive-Spurious
Comment A: CH 165 at 802.11n 20MHz mode DAC1
Date: 24.NOV.2009 13:45:01

Chain 1: conducted spurious @ 802.11n (HT20) mode channel 165 (3 of 3)



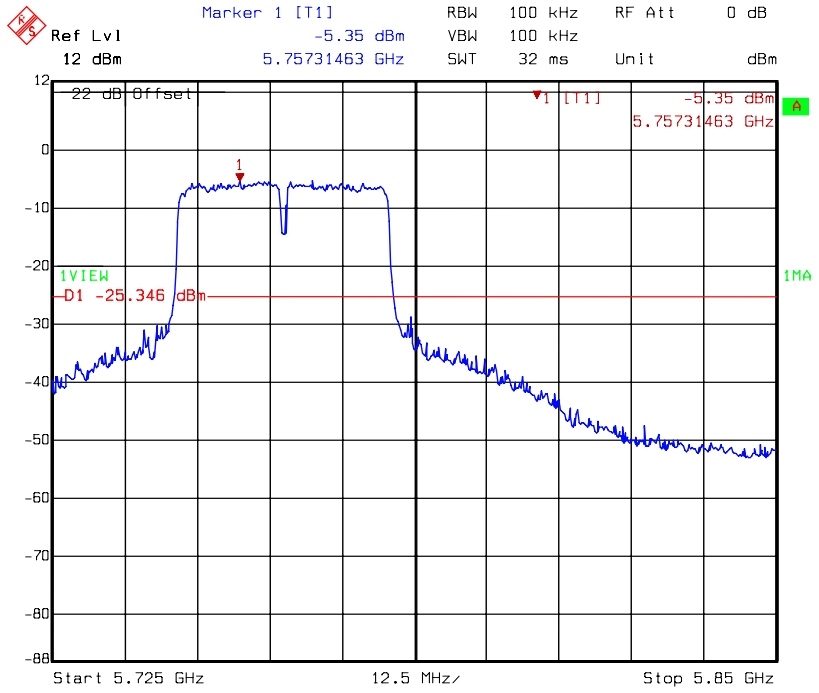
Title: Conductive-Spurious
Comment A: CH 165 at 802.11n 20MHz mode DAC1
Date: 24.NOV.2009 13:45:54

Chain 1: conducted spurious @ 802.11n (HT40) mode channel 153 (1 of 3)



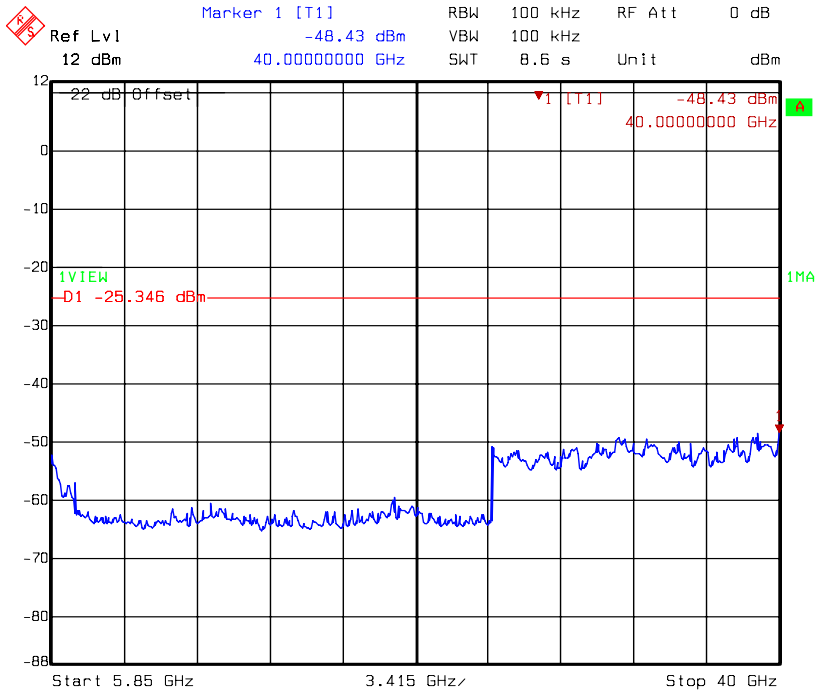
Title: Conductive-Spurious
Comment A: CH 153 at 802.11n 40MHz mode DAC1
Date: 24.NOV.2009 13:49:57

Chain 1: conducted spurious @ 802.11n (HT40) mode channel 153 (2 of 3)



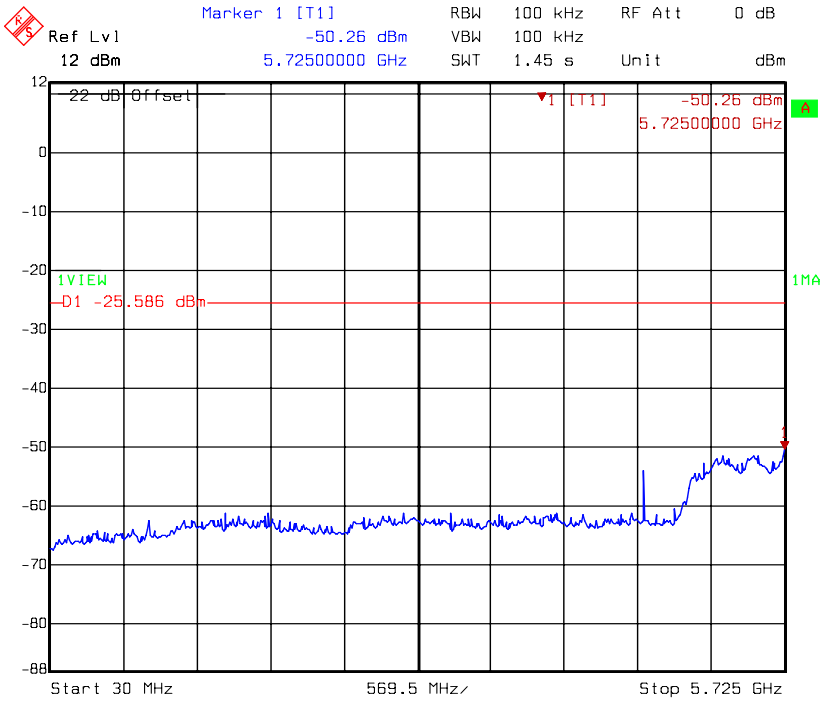
Title: Conductive-Spurious
Comment A: CH 153 at 802.11n 40MHz mode DAC1
Date: 24.NOV.2009 13:49:35

Chain 1: conducted spurious @ 802.11n (HT40) mode channel 153 (3 of 3)



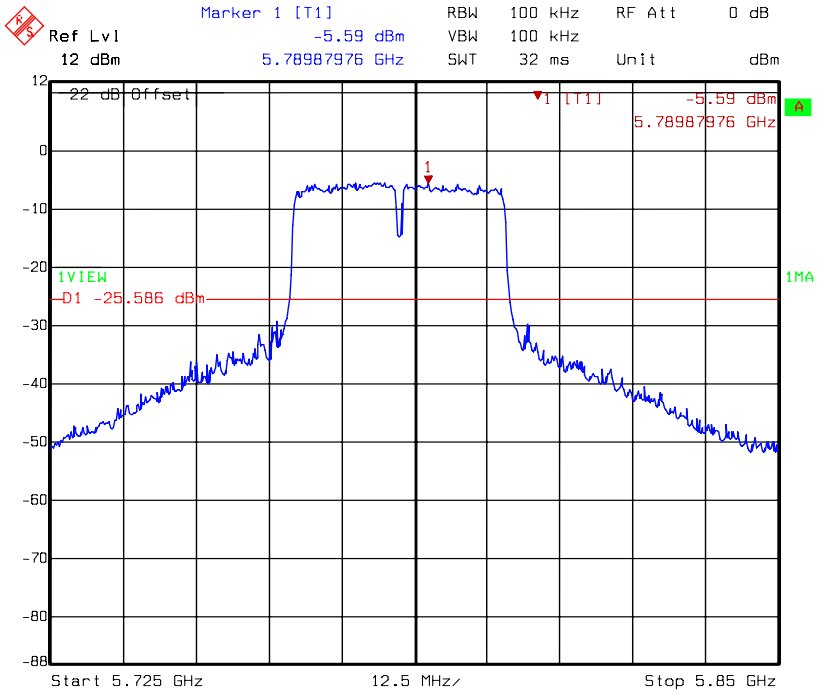
Title: Conductive-Spurious
Comment A: CH 153 at 802.11n 40MHz mode DAC1
Date: 24.NOV.2009 13:50:29

Chain 1: conducted spurious @ 802.11n (HT40) mode channel 157 (1 of 3)



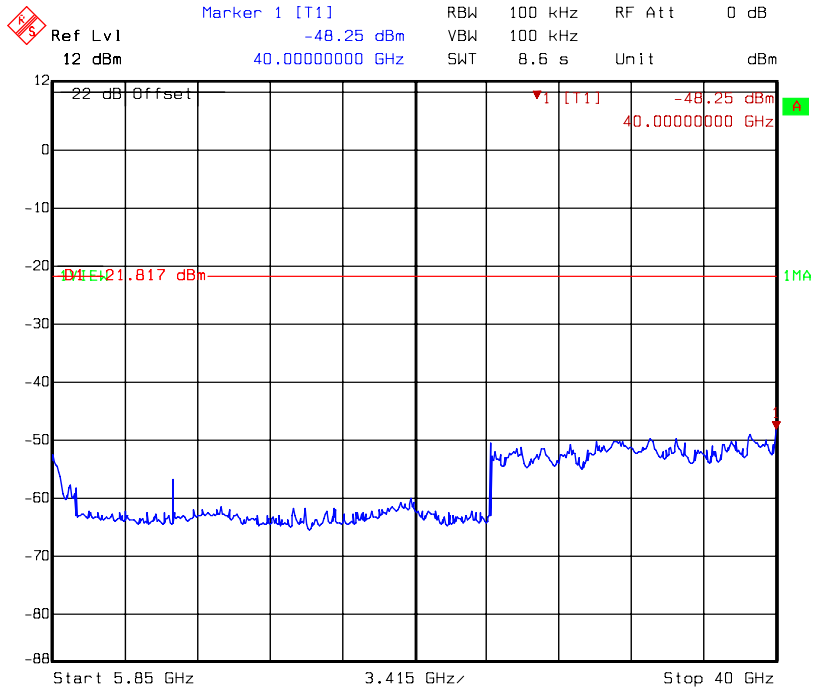
Title: Conductive-Spurious
Comment A: CH 157 at 802.11n 40MHz mode DAC1
Date: 24.NOV.2009 13:55:59

Chain 1: conducted spurious @ 802.11n (HT40) mode channel 157 (2 of 3)



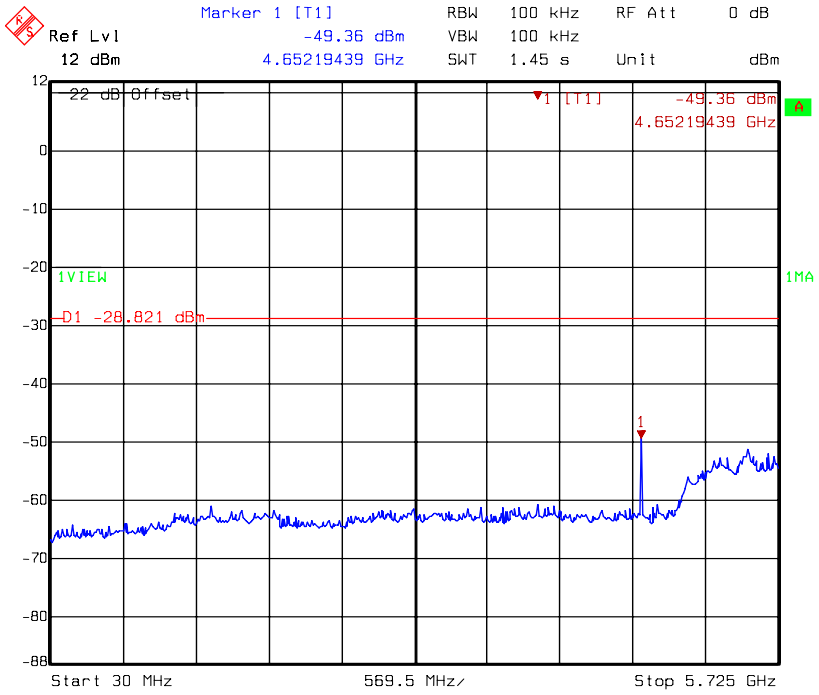
Title: Conductive-Spurious
Comment A: CH 157 at 802.11n 40MHz mode DAC1
Date: 24.NOV.2009 13:55:38

Chain 1: conducted spurious @ 802.11n (HT40) mode channel 157 (3 of 3)



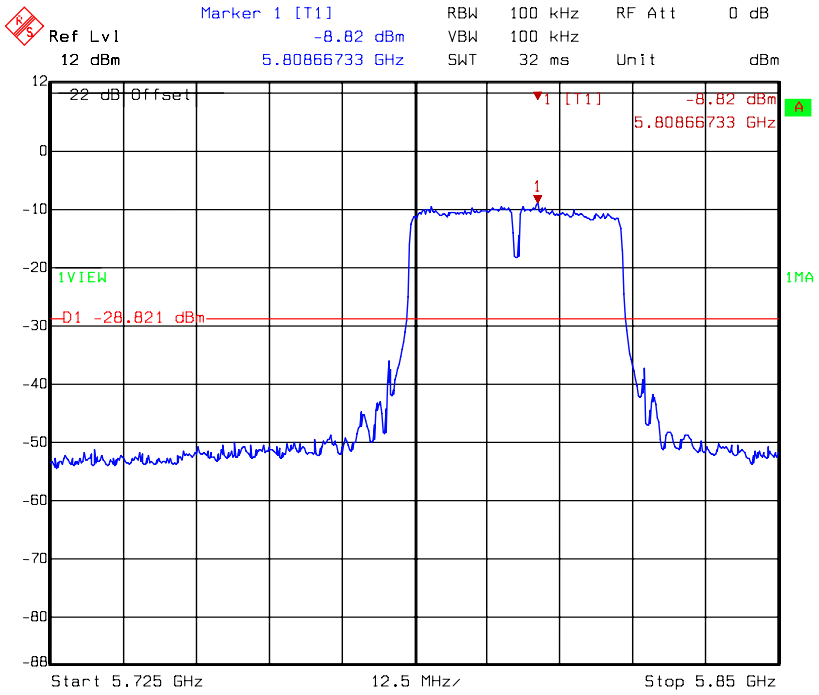
Title: Conductive-Spurious
Comment A: CH 157 at 802.11n 20MHz mode DAC1
Date: 24.NOV.2009 13:41:54

Chain 1: conducted spurious @ 802.11n (HT40) mode channel 161 (1 of 3)



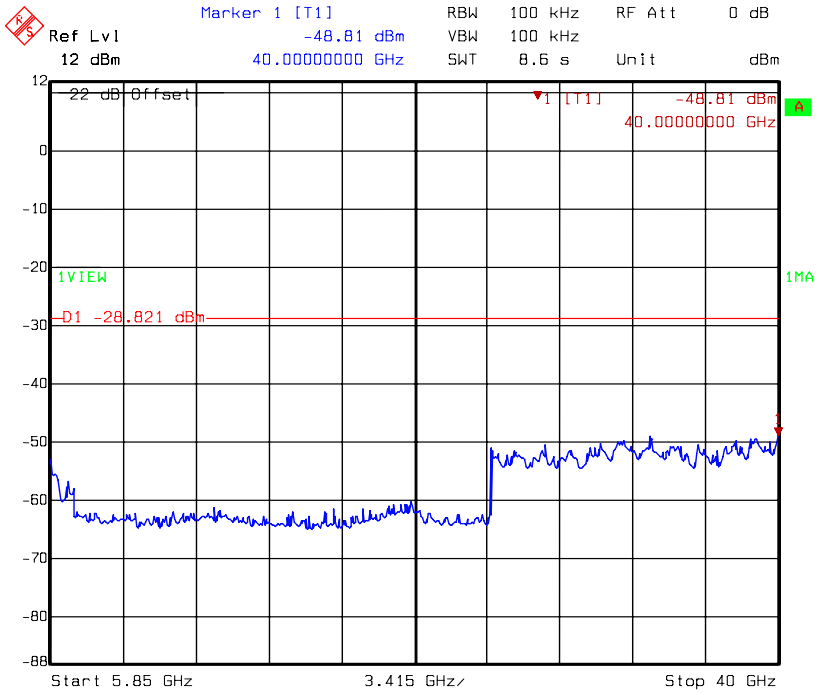
Title: Conductive-Spurious
Comment A: CH 161 at 802.11n 40MHz mode DAC1
Date: 24.NOV.2009 14:00:31

Chain 1: conducted spurious @ 802.11n (HT40) mode channel 161 (2 of 3)



Title: Conductive-Spurious
Comment A: CH 161 at 802.11n 40MHz mode DAC1
Date: 24.NOV.2009 14:00:10

Chain 1: conducted spurious @ 802.11n (HT40) mode channel 161 (3 of 3)



Title: Conductive-Spurious
Comment A: CH 161 at 802.11n 40MHz mode DAC1
Date: 24.NOV.2009 14:01:04

8. Radiated Spurious Emission

Name of Test	Radiated Spurious Emission
Base Standard	FCC 15.247(d), 15.209, 15.205

Test Result: Complies
Measurement Data: See Tables below

Method of Measurement:

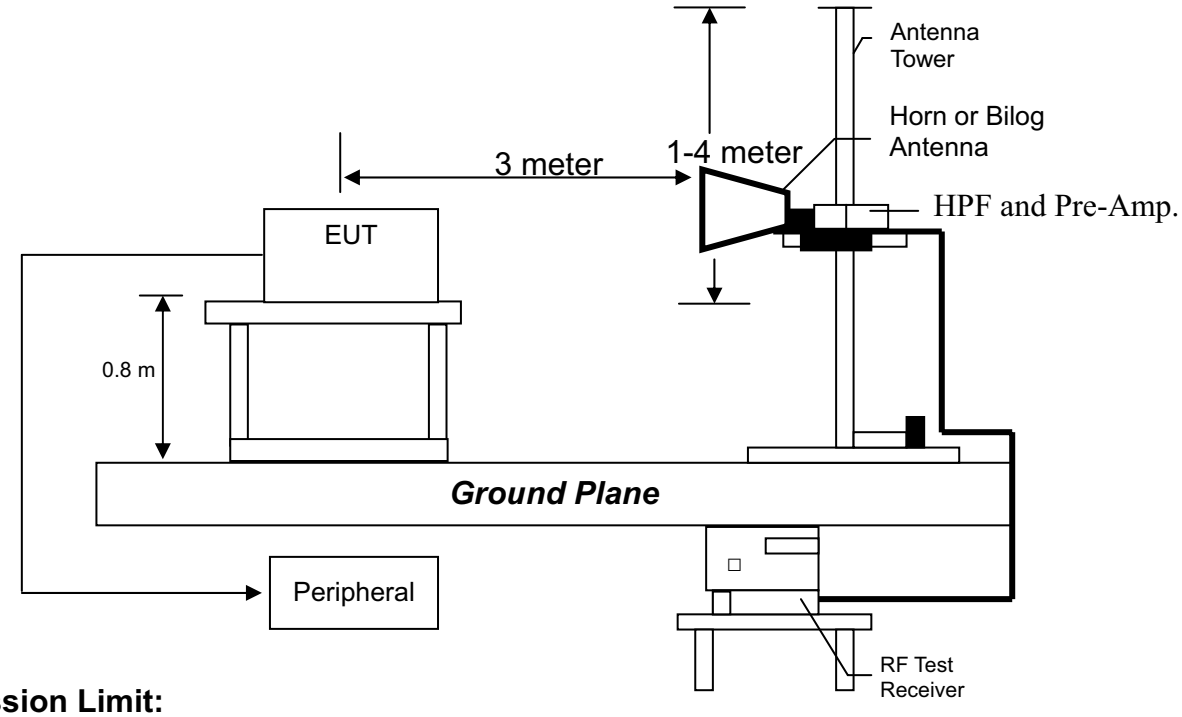
Reference FCC document: KDB558074, ANSI C63.4
The frequency range from 30 MHz to 1000 MHz using Bilog Antenna.
The frequency range over 1 GHz using Horn Antenna.

Radiated emissions were invested cover the frequency range from 30 MHz to 1000 MHz using a receiver RBW of 120 kHz record QP reading, and the frequency over 1 GHz using a spectrum analyzer RBW of 1 MHz and 10 Hz VBW record Average reading. (15.209 paragraph), the Peak reading (1 MHz RBW/VBW) recorded also on the report.

The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter. The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent 3 meters reading using inverse scaling with distance.

The EUT configuration please refer to the “Spurious set-up photo.pdf”.

Test Diagram:



Emission Limit:

The spurious Emission shall test through the 10th harmonic. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

Frequency (MHz)	Limits (dBμV/m@ 3 meter)
30-88	40
88-216	43.5
216-960	46
Above 960	54

Remark:
1. In the above table, the tighter limit applies at the band edges.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

Note: (1) The EUT was tested while in a continuous transmit mode and the worst case data rates are 1 Mbps data rate for 802.11b mode, 6 Mbps data rate for 802.11g mode, 6 Mbps data rate for 802.11a, 6.5 Mbps data rate for 802.11n (HT20) mode and 13.5 Mbps data rate for 802.11n (HT40) mode. The EUT was tuned to a low, middle and high channel.
(2) When the EUT operating at 2.4 GHz ISM band, frequency range was scanned from 30 MHz to 25 GHz. When the EUT operating at 5 GHz band, frequency range was scanned from 30 MHz to 40 GHz.

Measurement results: frequencies equal to or less than 1 GHz

The test was performed on EUT under 802.11b, 802.11g, 802.11a, 802.11n (HT 20) and 802.11n (HT 40) continuously transmitting mode. Their low, middle and high channels were verified. The worst case occurred at 802.11b Tx channel 1.

EUT : P-3202HN-Ba
Worst Case : 802.11b Tx at channel 1

Antenna Polariz. (V/H)	Freq. (MHz)	Receiver Detector	Corr. Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
V	38.56	QP	12.62	25.07	37.69	40.00	-2.31
V	68.80	QP	12.23	25.46	37.69	40.00	-2.31
V	374.35	QP	15.06	23.78	38.84	46.00	-7.16
V	499.48	QP	18.43	23.07	41.49	46.00	-4.51
V	533.43	QP	19.46	18.87	38.33	46.00	-7.67
V	624.61	QP	20.75	21.07	41.82	46.00	-4.18
H	87.23	QP	9.45	25.40	34.84	40.00	-5.16
H	249.22	QP	12.36	26.76	39.12	46.00	-6.88
H	532.46	QP	19.65	19.11	38.76	46.00	-7.24
H	624.61	QP	20.88	19.39	40.26	46.00	-5.74
H	749.74	QP	22.95	16.21	39.16	46.00	-6.84
H	799.21	QP	23.52	15.93	39.45	46.00	-6.55

Remark:

1. Corr. Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Corr. Factor

Measurement results: frequency above 1GHz

15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Fundamental (dBuV/m)
802.11b	1	2412	1	PK	V	108.43
				AV	V	104.94
	6	2437		PK	V	106.89
				AV	V	103.43
	11	2462		PK	V	108.81
				AV	V	105.36
802.11g	1	2412	6	PK	V	109.96
				AV	V	100.59
	6	2437		PK	V	109.89
				AV	V	101.32
	11	2462		PK	V	110.4
				AV	V	102.05
802.11n (HT20)	1	2412	6.5	PK	V	109.23
				AV	V	99.51
	6	2437		PK	V	110.62
				AV	V	100.38
	11	2462		PK	V	111.13
				AV	V	101.52

Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Fundamental (dBuV/m)
802.11n (HT40)	3	2422	13.5	PK	V	103.46
				AV	V	94.02
	6	2437		PK	V	109.23
				AV	V	98.69
	9	2452		PK	V	107.18
				AV	V	97.69
802.11a	149	5745	6	PK	V	111.76
				AV	V	102.23
	157	5785		PK	V	111.8
				AV	V	102.38
	165	5825		PK	V	111.33
				AV	V	101.86
802.11n (HT20)	149	5745	6.5	PK	V	111.66
				AV	V	101.89
	157	5785		PK	V	111.33
				AV	V	101.78
	165	5825		PK	V	111.09
				AV	V	101.62
802.11n (HT40)	149	5745	13.5	PK	V	109.62
				AV	V	99.48
	157	5785		PK	V	109.32
				AV	V	99.31
	165	5825		PK	V	108.98
				AV	V	99.06

EUT : P-3202HN-Ba
Test Condition : 802.11b Tx at channel 1

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3090.00	PK	V	33.8	36.24	47.02	49.46	54	-4.54
4824.00	PK	V	35.1	38.54	47.7	51.14	54	-2.86
6210.00	PK	V	34.6	41.49	43.83	50.72	54	-3.28
6432.00	PK	V	34.6	41.49	49.03	55.92	104.94	-49.02
6432.00	AV	V	34.6	41.49	46.34	53.23	84.94	-31.71
7236.00	PK	V	33	44.6	43.42	55.02	74	-18.98
7236.00	AV	V	33	44.6	37.8	49.4	54	-4.60
7465.00	PK	V	33	44.6	43.31	54.91	74	-19.09
7465.00	AV	V	33	44.6	39.59	51.19	54	-2.81
3720.00	PK	H	33.9	36.16	46.07	48.33	54	-5.67
4824.00	PK	H	35.1	38.54	44.06	47.5	54	-6.50
6432.00	PK	H	34.6	41.49	47.27	54.16	104.94	-50.78
6432.00	AV	H	34.6	41.49	44.65	51.54	84.94	-33.40
7236.00	PK	H	33	44.6	38.07	49.67	54	-4.33

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : P-3202HN-Ba
Test Condition : 802.11b Tx at channel 6

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
4874.00	PK	V	35.1	38.54	48.11	51.55	54	-2.45
6498.70	PK	V	34.6	41.49	49.55	56.44	103.43	-46.99
6498.70	AV	V	34.6	41.49	46.48	53.37	83.43	-30.06
7311.00	PK	V	33	44.6	44.74	56.34	74	-17.66
7311.00	AV	V	33	44.6	39.55	51.15	54	-2.85
7470.00	PK	V	33	44.6	39.63	51.23	54	-2.77
9960.00	PK	V	32.7	49.3	35.37	51.97	54	-2.03
4874.00	PK	H	35.1	38.54	43.41	46.85	54	-7.15
6498.70	PK	H	34.6	41.49	48.75	55.64	103.43	-47.79
6498.70	AV	H	34.6	41.49	46.43	53.32	83.43	-30.11
7311.00	PK	H	33	44.6	39.73	51.33	54	-2.67

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : P-3202HN-Ba
Test : 802.11b Tx at channel 11

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
4924.00	PK	V	35.1	38.54	48.84	52.28	54	-1.72
6565.40	PK	V	33.8	43.21	47.6	57.01	105.36	-48.35
6565.40	AV	V	33.8	43.21	45.57	54.98	85.36	-30.38
7380.00	PK	V	33	44.6	40.56	52.16	54	-1.84
7470.00	PK	V	33	44.6	41.29	52.89	54	-1.11
4924.00	PK	H	35.1	38.54	42.3	45.74	54	-8.26
6565.40	PK	H	33.8	43.21	47.96	57.37	105.36	-47.99
6565.40	AV	H	33.8	43.21	46.04	55.45	85.36	-29.91
4924.00	PK	H	35.1	38.54	46.1	49.54	54	-4.46

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : P-3202HN-Ba
Test : 802.11g Tx at channel 1

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
4824.00	PK	V	35.1	38.54	51.18	54.62	74	-19.38
4824.00	AV	V	35.1	38.54	36.94	40.38	54	-13.62
6432.00	PK	V	34.6	41.49	53.79	60.68	100.59	-39.91
6432.00	AV	V	34.6	41.49	52.56	59.45	80.59	-21.14
7236.00	PK	V	33	44.6	49.62	61.22	74	-12.78
7236.00	AV	V	33	44.6	35.27	46.87	54	-7.13
9953.20	PK	V	32.7	49.3	38.8	55.4	74	-18.60
9953.20	AV	V	32.7	49.3	32.75	49.35	54	-4.65
4824.00	PK	H	35.1	38.54	43.25	46.69	54	-7.31
6432.00	PK	H	34.6	41.49	47.2	54.09	100.59	-46.50
6432.00	AV	H	34.6	41.49	44.51	51.4	80.59	-29.19
7236.00	PK	H	33	44.6	44.34	55.94	74	-18.06
7236.00	AV	H	33	44.6	28.21	39.81	54	-14.19

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : P-3202HN-Ba
Test : 802.11g Tx at channel 6

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
4874.00	PK	V	35.1	38.54	48.59	52.03	54	-1.97
6210.00	PK	V	34.6	41.49	43.7	50.59	54	-3.41
6498.70	PK	V	34.6	41.49	52.81	59.7	101.32	-41.62
6498.70	AV	V	34.6	41.49	51.55	58.44	81.32	-22.88
7311.00	PK	V	33	44.6	48.78	60.38	74	-13.62
7311.00	AV	V	33	44.6	34.87	46.47	54	-7.53
4874.00	PK	H	35.1	38.54	44.05	47.49	54	-6.51
6498.70	PK	H	34.6	41.49	50.21	57.1	101.32	-44.22
6498.70	AV	H	34.6	41.49	48.37	55.26	81.32	-26.06
7311.00	PK	H	33	44.6	43.63	55.23	74	-18.77
7311.00	AV	H	33	44.6	30.02	41.62	54	-12.38

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : P-3202HN-Ba
Test : 802.11g Tx at channel 11

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
4924.00	PK	V	35.1	38.54	51.79	55.23	74	-18.77
4924.00	AV	V	35.1	38.54	39.42	42.86	54	-11.14
6565.40	PK	V	33.8	43.21	47.43	56.84	102.05	-45.21
6565.40	AV	V	33.8	43.21	45.53	54.94	82.05	-27.11
7386.00	PK	V	33	44.6	47.96	59.56	74	-14.44
7386.00	PK	V	33	44.6	33.58	45.18	54	-8.82
9849.80	PK	V	32.7	49.3	38.38	54.98	74	-19.02
9849.80	AV	V	32.7	49.3	22.42	39.02	54	-14.98
4924.00	PK	H	35.1	38.54	42.33	45.77	54	-8.23
6565.40	PK	H	33.8	43.21	46.21	55.62	102.05	-46.43
6565.40	AV	H	33.8	43.21	43.67	53.08	82.05	-28.97
7386.00	PK	H	33	44.6	44.22	55.82	74	-18.18
7386.00	AV	H	33	44.6	29.09	40.69	54	-13.31

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : P-3202HN-Ba
Test : 802.11n (HT20) Tx at channel 1

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
4824.00	PK	V	35.1	38.54	51.5	54.94	74	-19.06
4824.00	AV	V	35.1	38.54	36.38	39.82	54	-14.18
6432.00	PK	V	34.6	41.49	52.73	59.62	99.51	-39.89
6432.00	AV	V	34.6	41.49	51.43	58.32	79.51	-21.19
7236.00	PK	V	33	44.6	50	61.6	74	-12.40
7236.00	AV	V	33	44.6	33.52	45.12	54	-8.88
4824.00	PK	H	35.1	38.54	45.57	49.01	54	-4.99
6432.00	PK	H	34.6	41.49	49.43	56.32	99.51	-43.19
6432.00	AV	H	34.6	41.49	48.34	55.23	79.51	-24.28
7236.00	PK	H	33	44.6	44.06	55.66	74	-18.34
7236.00	AV	H	33	44.6	28.18	39.78	54	-14.22

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : P-3202HN-Ba
Test : 802.11n (HT20) Tx at channel 6

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
4874.00	PK	V	35.1	38.54	51.52	54.96	74	-19.04
4874.00	PK	V	35.1	38.54	37.38	40.82	54	-13.18
6210.00	PK	V	34.6	41.49	42.79	49.68	54	-4.32
6498.70	PK	V	34.6	41.49	53.23	60.12	100.38	-40.26
6498.70	AV	V	34.6	41.49	52.04	58.93	80.38	-21.45
7311.00	PK	V	33	44.6	47.73	59.33	74	-14.67
7311.00	AV	V	33	44.6	34.08	45.68	54	-8.32
4874.00	PK	H	35.1	38.54	41.71	45.15	54	-8.85
6498.70	PK	H	34.6	41.49	49.99	56.88	100.38	-43.50
6498.70	AV	H	34.6	41.49	47.48	54.37	80.38	-26.01
7311.00	PK	H	33	44.6	43.48	55.08	74	-18.92
7311.00	AV	H	33	44.6	29.46	41.06	54	-12.94

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : P-3202HN-Ba
Test : 802.11n (HT20) Tx at channel 11

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
4924.00	PK	V	35.1	38.54	49.19	52.63	54	-1.37
6565.40	PK	V	33.8	43.21	50.82	60.23	101.52	-41.29
6565.40	AV	V	33.8	43.21	48.75	58.16	81.52	-23.36
7386.00	PK	V	33	44.6	47.73	59.33	74	-14.67
7386.00	PK	V	33	44.6	33.58	45.18	54	-8.82
9849.80	PK	V	32.7	49.3	38.02	54.62	74	-19.38
9849.80	AV	V	32.7	49.3	22.78	39.38	54	-14.62
4924.00	PK	H	35.1	38.54	43.45	46.89	54	-7.11
6565.40	PK	H	33.8	43.21	46.48	55.89	101.52	-45.63
6565.40	AV	H	33.8	43.21	43.71	53.12	81.52	-28.40
7386.00	PK	H	33	44.6	39.94	51.54	54	-2.46

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : P-3202HN-Ba
Test : 802.11n (HT40) Tx at channel 3

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
4844.00	PK	V	35.1	38.54	42.19	45.63	54	-8.37
6458.70	PK	V	34.6	41.49	51	57.89	94.02	-36.13
6458.70	AV	V	34.6	41.49	49.34	56.23	74.02	-17.79
7470.00	PK	V	33	44.6	40.04	51.64	54	-2.36
4844.00	PK	H	35.1	38.54	37.55	40.99	54	-13.01
6458.70	PK	H	34.6	41.49	47.43	54.32	94.02	-39.70
6458.70	AV	H	34.6	41.49	46.12	53.01	74.02	-21.01

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : P-3202HN-Ba
Test : 802.11n (HT40) Tx at channel 6

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
4874.00	PK	V	35.1	38.54	46.11	49.55	54	-4.45
6210.00	PK	V	34.6	41.49	44.28	51.17	54	-2.83
6498.70	PK	V	34.6	41.49	49.74	56.63	98.69	-42.06
6498.70	AV	V	34.6	41.49	47.87	54.76	78.69	-23.93
7311.00	PK	V	33	44.6	44.93	56.53	74	-17.47
7311.00	AV	V	33	44.6	31.34	42.94	54	-11.06
4874.00	PK	H	35.1	38.54	40.07	43.51	54	-10.49
6498.70	PK	H	34.6	41.49	47.48	54.37	98.69	-44.32
6498.70	AV	H	34.6	41.49	45.29	52.18	78.69	-26.51
7311.00	PK	H	33	44.6	39.1	50.7	54	-3.30

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : P-3202HN-Ba
Test : 802.11n (HT40) Tx at channel 9

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
4904.00	PK	V	35.1	38.54	43.85	47.29	54	-6.71
6538.70	PK	V	33.8	43.21	48.18	57.59	97.69	-40.10
6538.70	AV	V	33.8	43.21	46.6	56.01	77.69	-21.68
7350.00	PK	V	33	44.6	40.55	52.15	54	-1.85
7470.00	PK	V	33	44.6	39.74	51.34	54	-2.66
4904.00	PK	H	35.1	38.54	38.93	42.37	54	-11.63
6538.70	PK	H	33.8	43.21	46.92	56.33	97.69	-41.36
6538.70	AV	H	33.8	43.21	45.48	54.89	77.69	-22.80

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : P-3202HN-Ba
Test : 802.11a Tx at channel 149

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
7466.00	PK	V	33	44.6	39.86	51.46	54	-2.54
11490.00	PK	V	29.8	51.41	35.86	57.47	74	-16.53
11490.00	AV	V	29.8	51.41	19.14	40.75	54	-13.25
11490.00	PK	H	29.8	51.41	30.37	51.98	54	-2.02

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : P-3202HN-Ba
Test : 802.11a Tx at channel 157

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
7466.00	PK	V	33	44.6	38.01	49.61	54	-4.39
11570.00	PK	V	30.3	51.84	36.09	57.63	74	-16.37
11570.00	AV	V	30.3	51.84	20.4	41.94	54	-12.06
11570.00	PK	H	30.3	51.84	29.11	50.65	54	-3.35

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : P-3202HN-Ba
Test : 802.11a Tx at channel 165

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
7466.00	PK	V	33	44.6	37.94	49.54	54	-4.46
11650.00	PK	V	30.3	51.84	35.79	57.33	74	-16.67
11650.00	AV	V	30.3	51.84	19.28	40.82	54	-13.18
11650.00	PK	H	30.3	51.84	28.53	50.07	54	-3.93

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : P-3202HN-Ba
Test : 802.11n (HT20) Tx at channel 149

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
7466.00	PK	V	33	44.6	37.39	48.99	54	-5.01
11490.00	PK	V	29.8	51.41	30.71	52.32	54	-1.68
11490.00	PK	H	29.8	51.41	29.13	50.74	54	-3.26

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : P-3202HN-Ba
Test : 802.11n (HT20) Tx at channel 157

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
7466.00	PK	V	33	44.6	37.19	48.79	54	-5.21
11570.00	PK	V	30.3	51.84	30.96	52.5	54	-1.50
11570.00	PK	H	30.3	51.84	30.7	52.24	54	-1.76

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : P-3202HN-Ba
Test : 802.11n (HT20) Tx at channel 165

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
7466.00	PK	V	33	44.6	37.63	49.23	54	-4.77
11650.00	PK	V	30.3	51.84	31.49	53.03	54	-0.97
11650.00	PK	H	30.3	51.84	28.59	50.13	54	-3.87

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : P-3202HN-Ba
Test : 802.11n (HT40) Tx at channel 153

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
7466.00	PK	V	33	44.6	37.96	49.56	54	-4.44
11530.00	PK	V	30.3	51.84	31.11	52.65	54	-1.35
11530.00	PK	H	30.3	51.84	28.77	50.31	54	-3.69

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : P-3202HN-Ba
Test : 802.11n (HT40) Tx at channel 157

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
7466.00	PK	V	33	44.6	37.99	49.59	54	-4.41
11570.00	PK	V	30.3	51.84	29.08	50.62	54	-3.38
11570.00	PK	H	30.3	51.84	28.77	50.31	54	-3.69

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : P-3202HN-Ba
Test : 802.11n (HT40) Tx at channel 161

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
7466.00	PK	V	33	44.6	37.88	49.48	54	-4.52
11610.00	PK	V	30.3	51.84	29.44	50.98	54	-3.02
11610.00	PK	H	30.3	51.84	28.79	50.33	54	-3.67

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

9. Emission on Band Edge

Name of Test	Emission Band Edge
Base Standard	FCC 15.247(d)

Test Result: Complies

Measurement Data: See Tables & plots below

Method of Measurement:

Reference FCC document: KDB558074, ANSI C63.4

The frequency range from 30 MHz to 1000 MHz using Bilog Antenna.
The frequency range over 1 GHz using Horn Antenna.

Radiated emissions were invested cover the frequency range from 30 MHz to 1000 MHz using a receiver RBW of 120 kHz record QP reading, and the frequency over 1 GHz using a spectrum analyzer RBW of 1 MHz and 10 Hz VBW record Average reading. (15.209 paragraph), the Peak reading (1 MHz RBW/VBW) recorded also on the report.

Note: The EUT was tested while in a continuous transmit mode and the worst case data rates are 1 Mbps data rate for 802.11b mode, 6 Mbps data rate for 802.11g mode, 6 Mbps data rate for 802.11a mode, 6.5 Mbps data rate for 802.11n (HT20) mode and 13.5 Mbps data rate for 802.11n (HT40) mode. The EUT was tuned to a low and high channel.

Test Mode: 802.11b

Channel	Measurement Freq.Band (MHz)	Detector	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
1 (lowest)	2310-2390	PK	61.01	74	-12.99
		AV	51.20	54	-2.80
11 (highest)	2483.5-2500	PK	60.08	74	-13.92
		AV	49.46	54	-4.54

Test Mode: 802.11g

Channel	Measurement Freq.Band (MHz)	Detector	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
1 (lowest)	2310-2390	PK	65.99	74	-8.01
		AV	51.57	54	-2.43
11 (highest)	2483.5-2500	PK	64.73	74	-9.27
		AV	50.67	54	-3.33

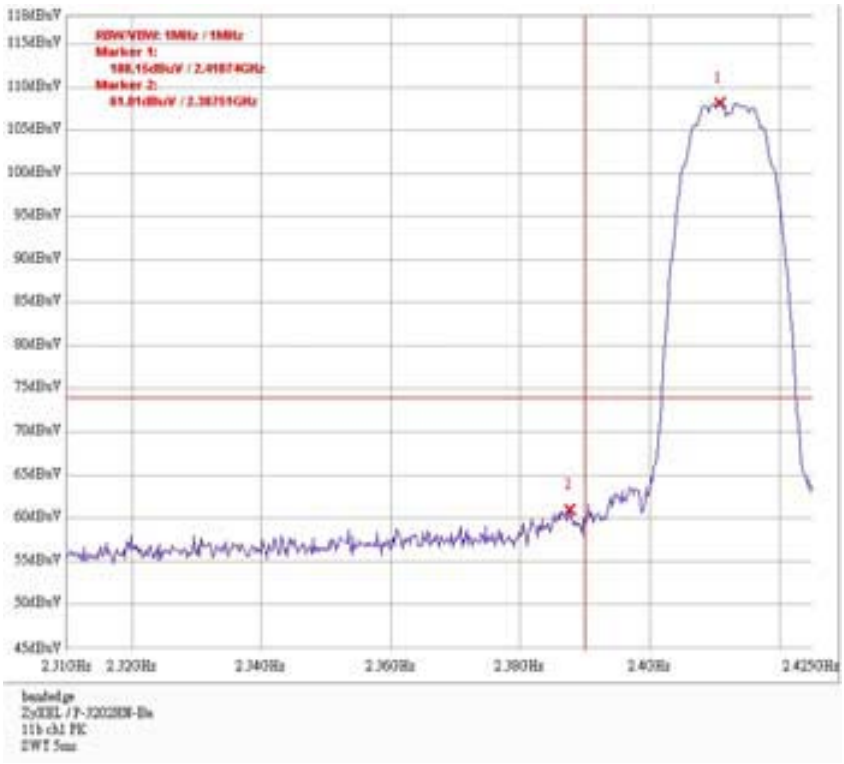
Test Mode: 802.11n (HT20)

Channel	Measurement Freq.Band (MHz)	Detector	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
1 (lowest)	2310-2390	PK	67.23	74	-6.77
		AV	52.73	54	-1.27
11 (highest)	2483.5-2500	PK	66.81	74	-7.19
		AV	51.67	54	-2.33

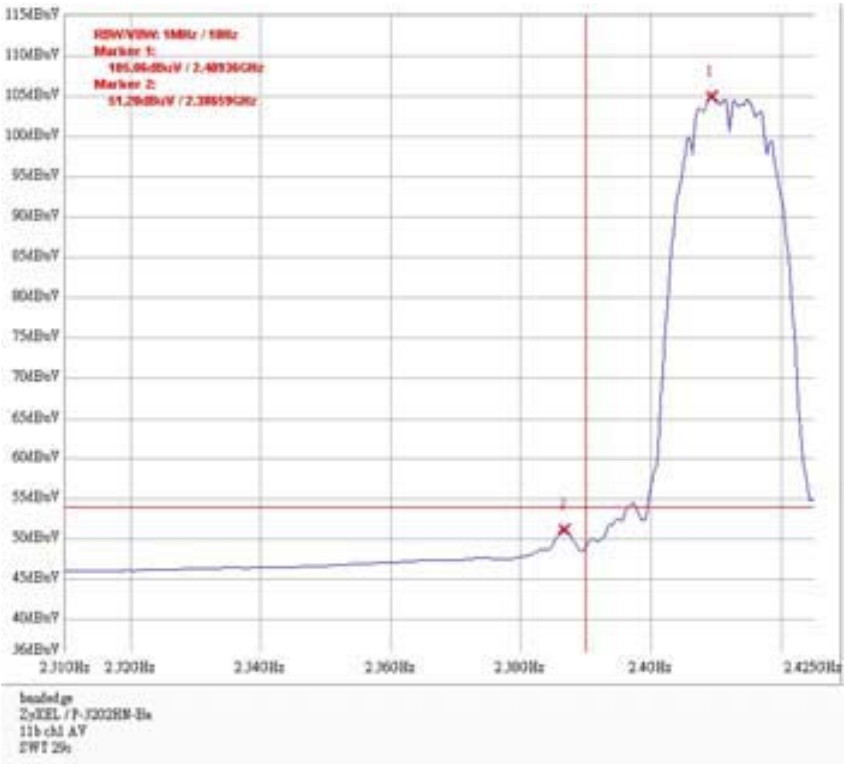
Test Mode: 802.11n (HT40)

Channel	Measurement Freq.Band (MHz)	Detector	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3 (lowest)	2310-2390	PK	64.61	74	-9.39
		AV	51.90	54	-2.10
9 (highest)	2483.5-2500	PK	66.34	74	-7.66
		AV	53.03	54	-0.97

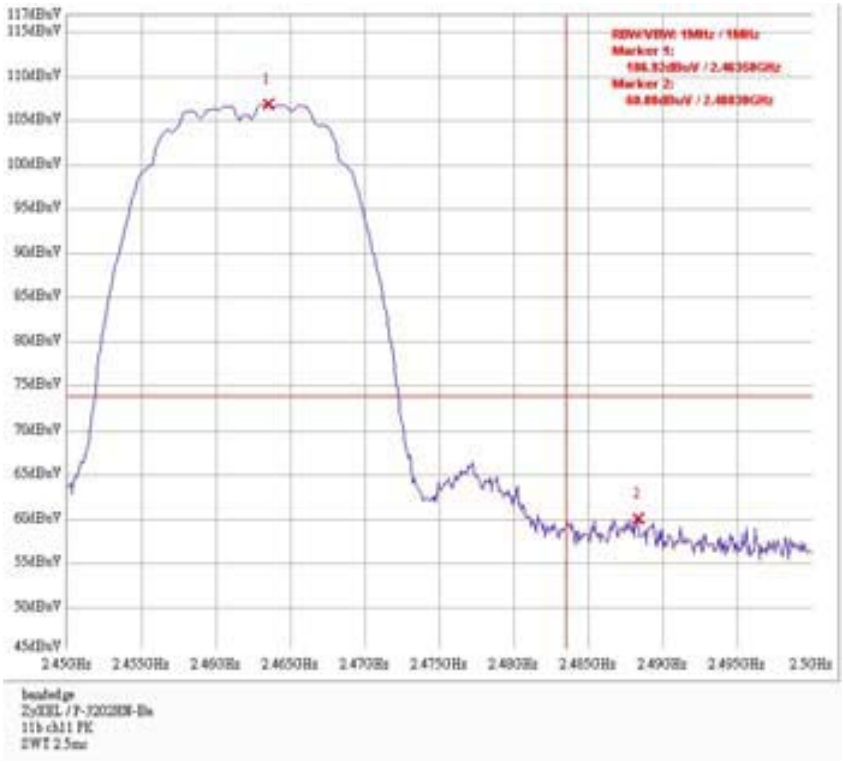
Bandage @ 802.11b mode channel 1 (PK)



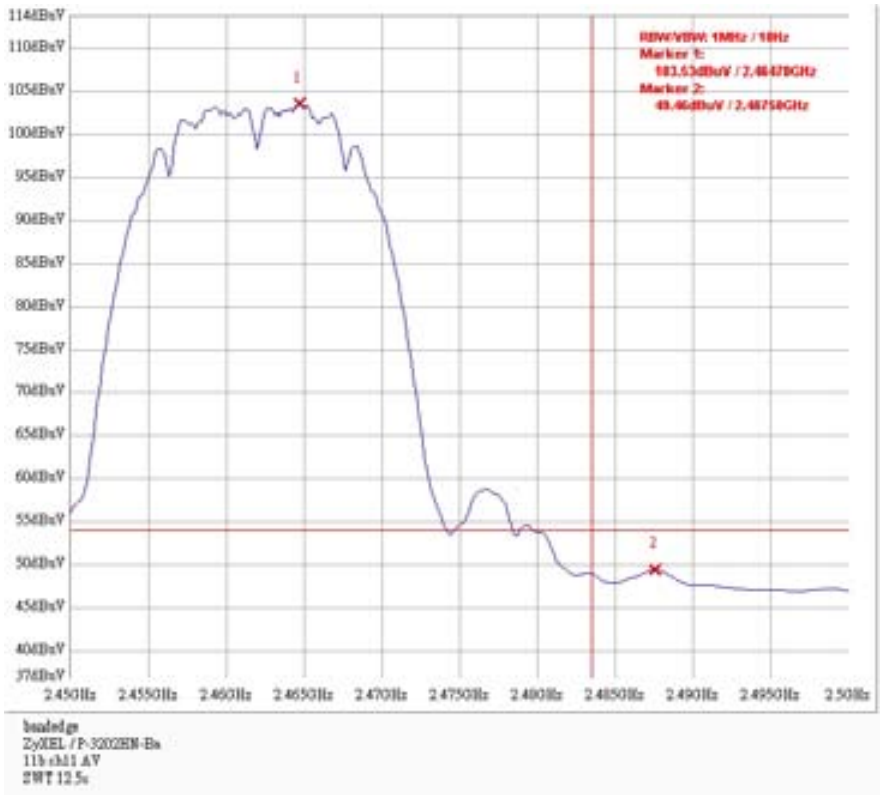
Bandage @ 802.11b mode channel 1 (AV)



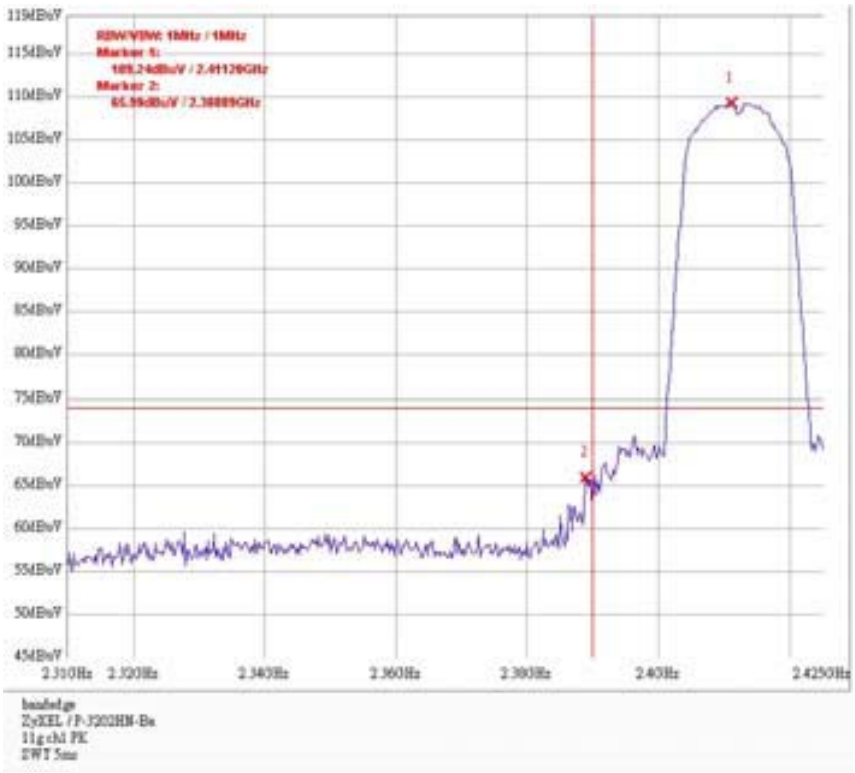
Bandage @ 802.11b mode channel 11 (PK)



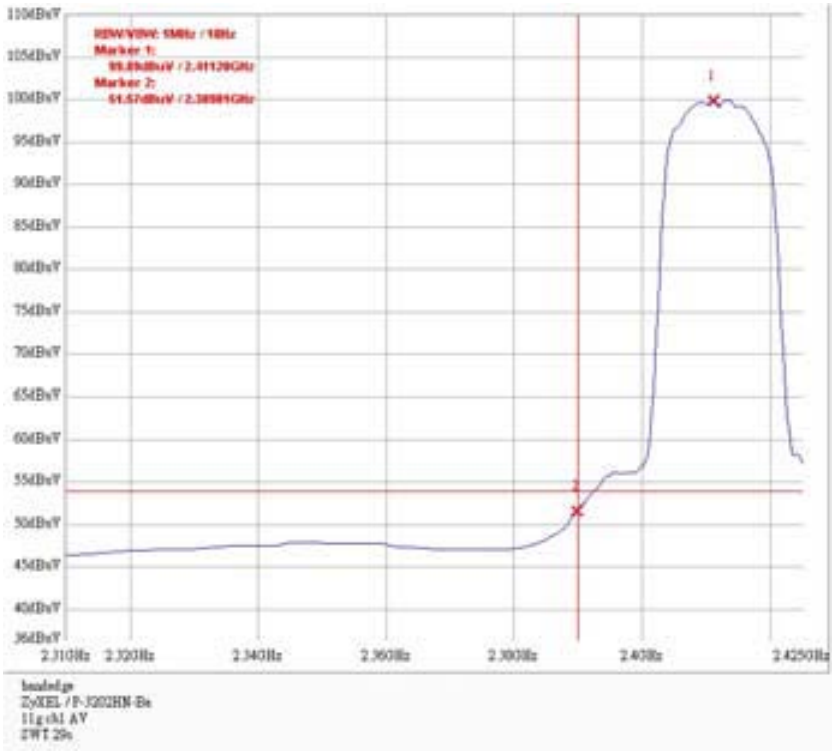
Bandage @ 802.11b mode channel 11 (AV)



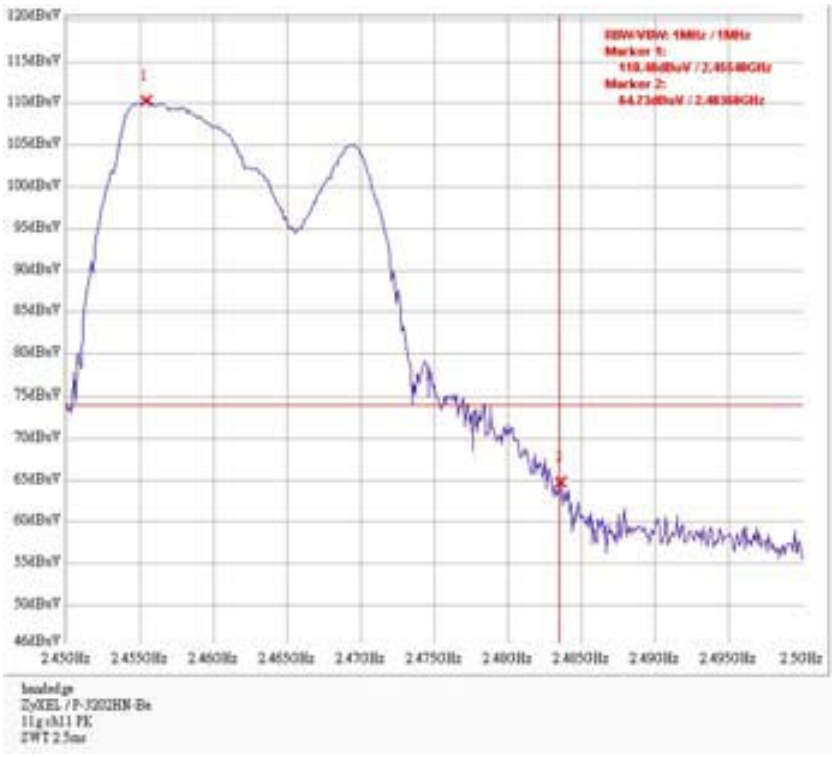
Bandage @ 802.11g mode channel 1 (PK)



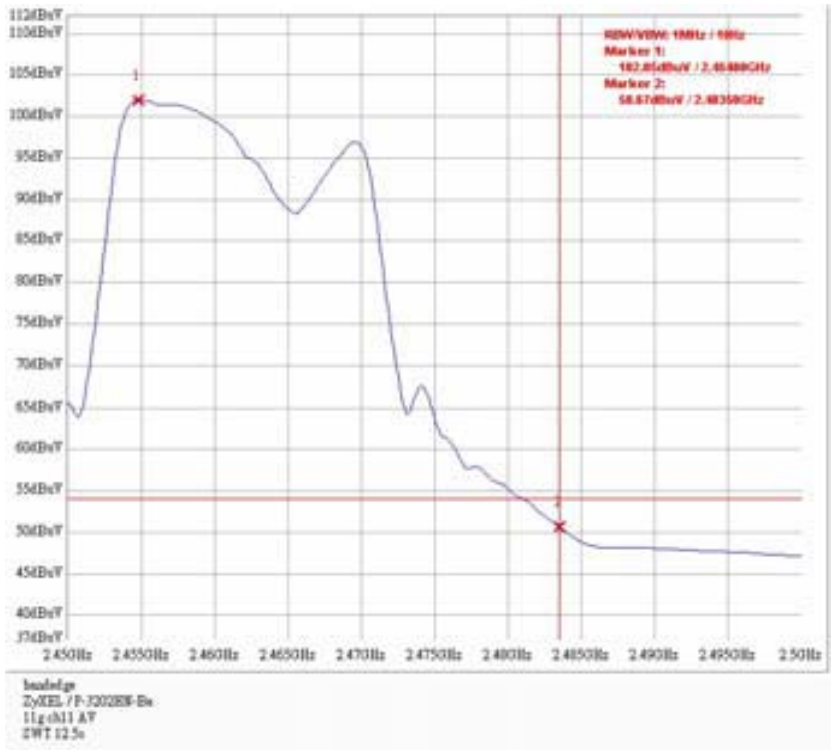
Bandage @ 802.11g mode channel 1 (AV)



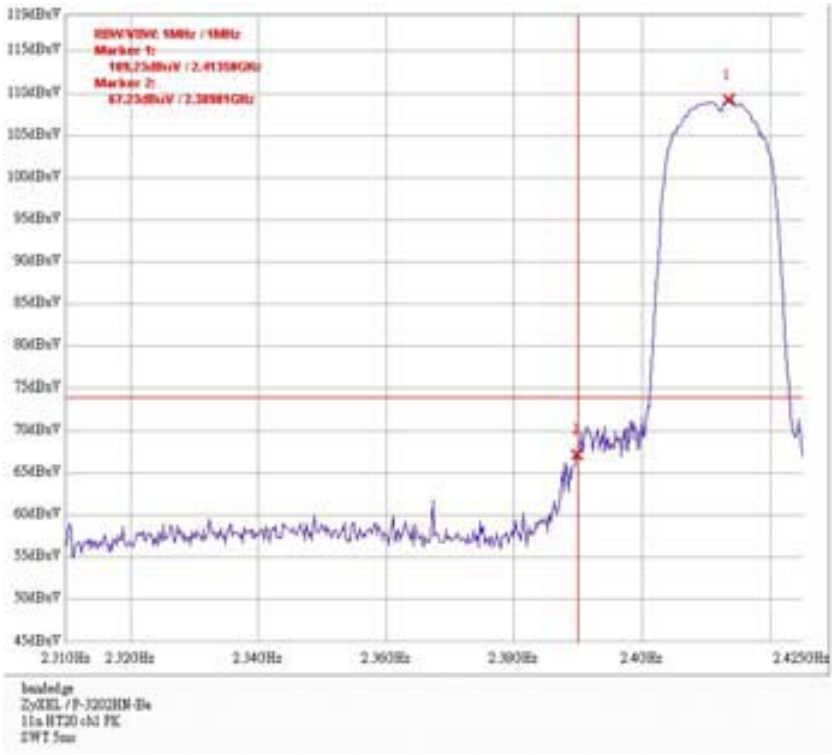
Bandage @ 802.11g mode channel 11 (PK)



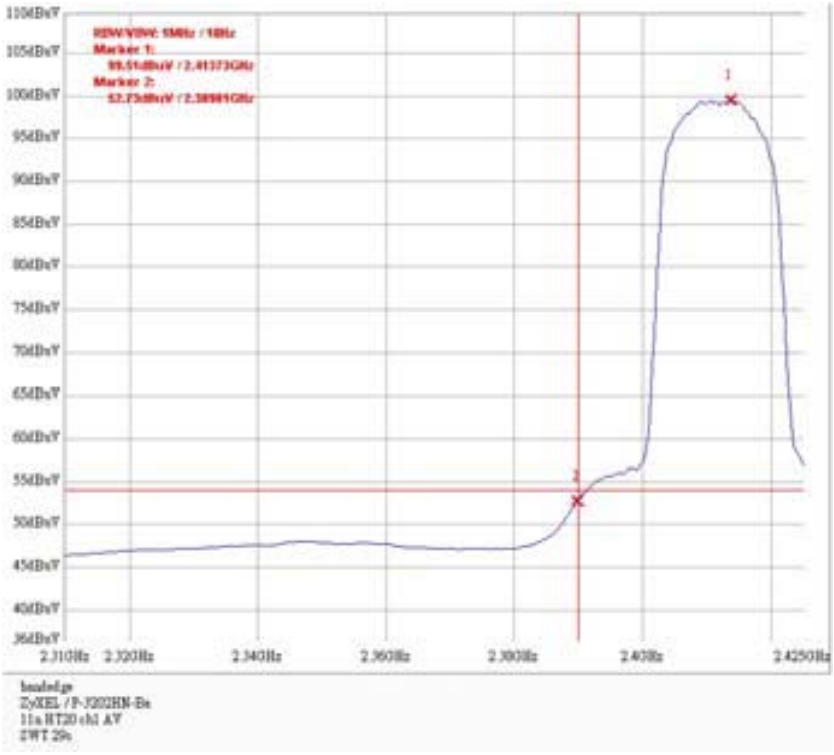
Bandage @ 802.11g mode channel 11 (AV)



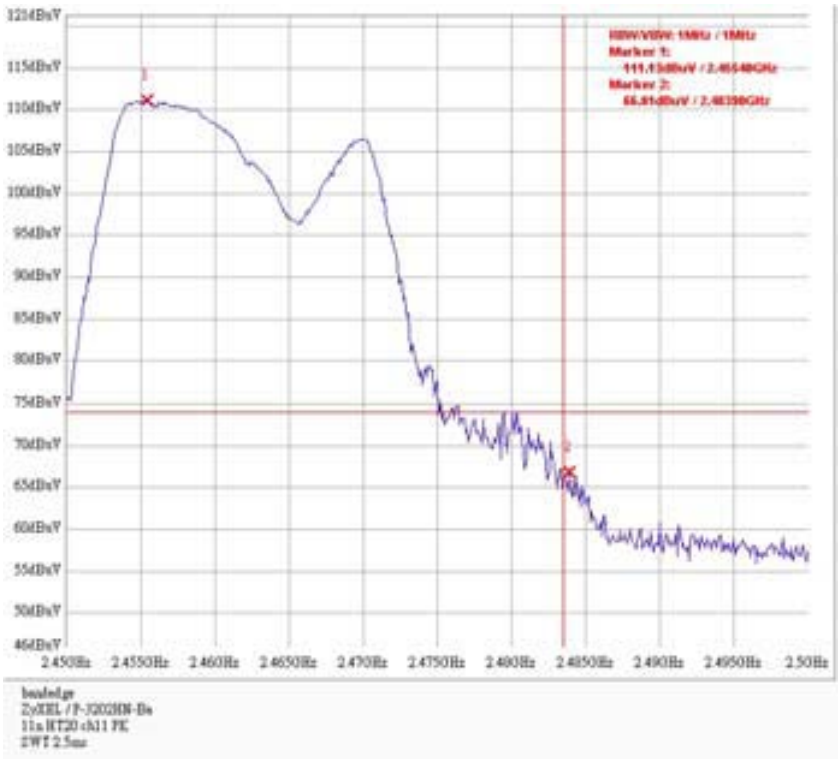
Bandage @ 802.11n (HT20) mode channel 1 (PK)



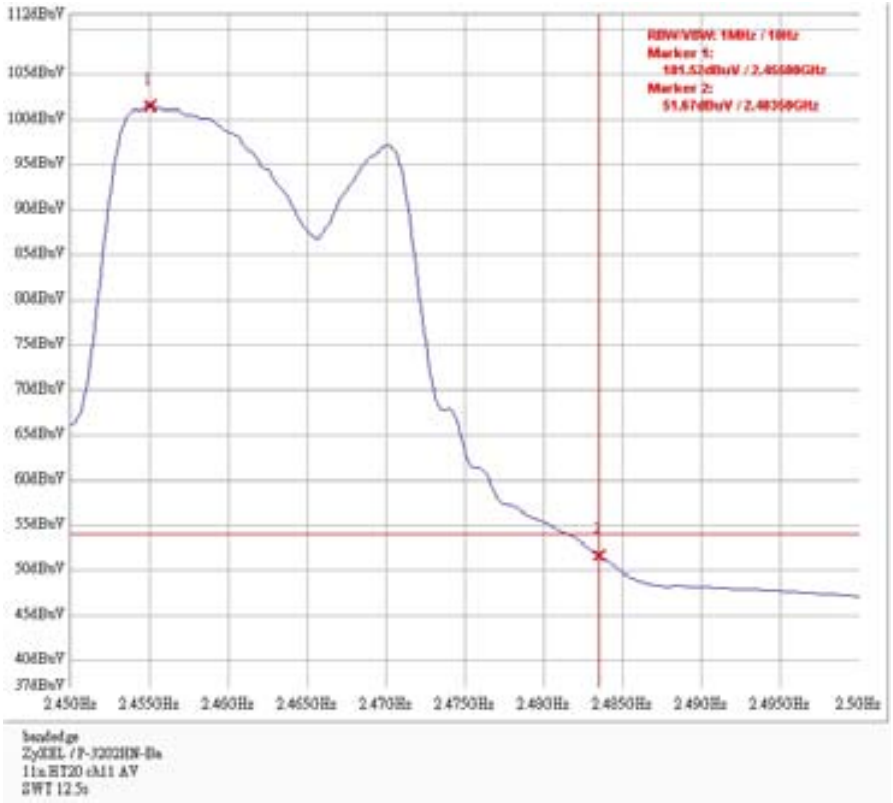
Bandage @ 802.11n (HT20) mode channel 1 (AV)



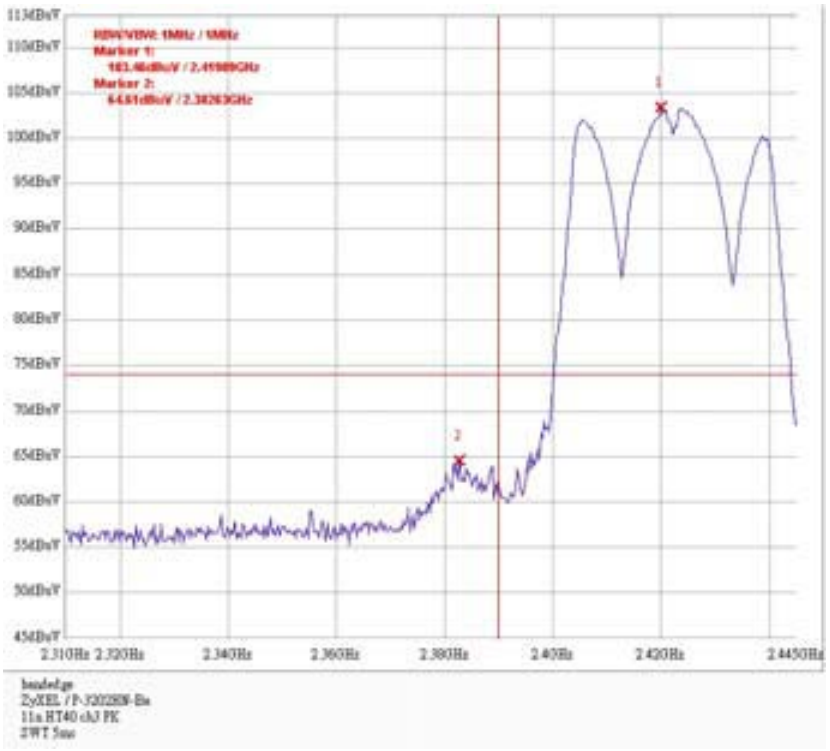
Bandage @ 802.11n (HT20) mode channel 11 (PK)



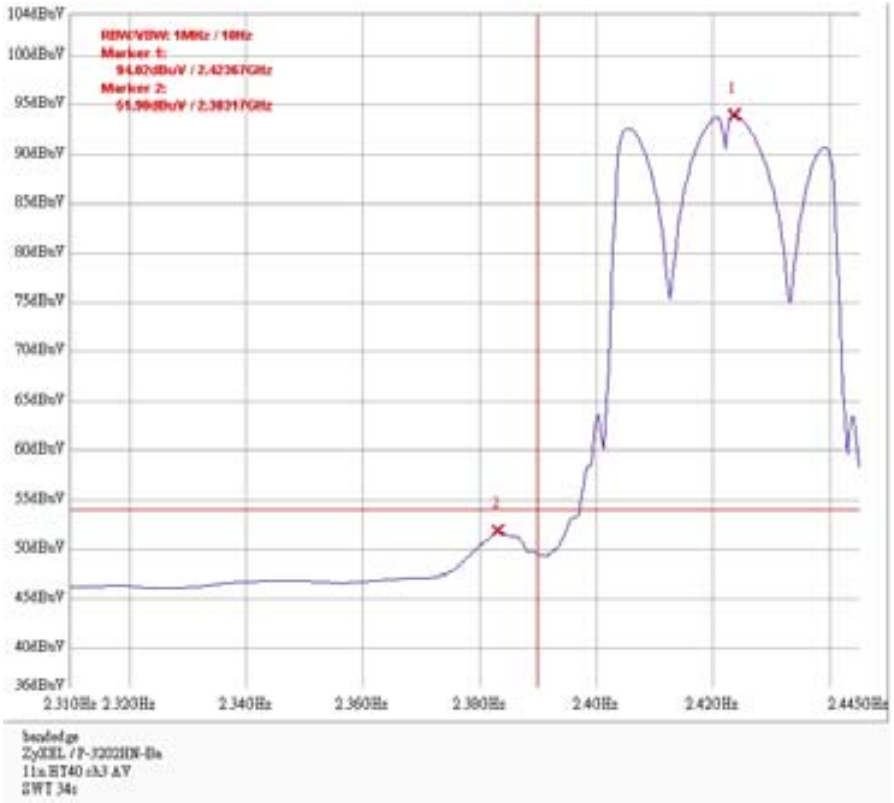
Bandage @ 802.11n (HT20) mode channel 11 (AV)



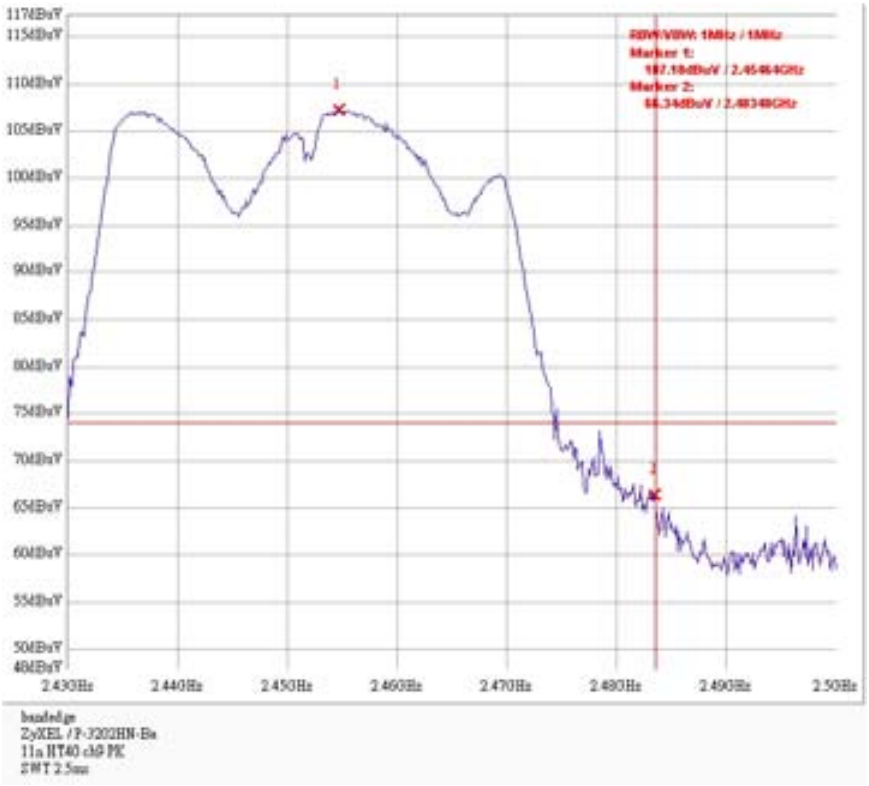
Bandage @ 802.11n (HT40) mode channel 3 (PK)



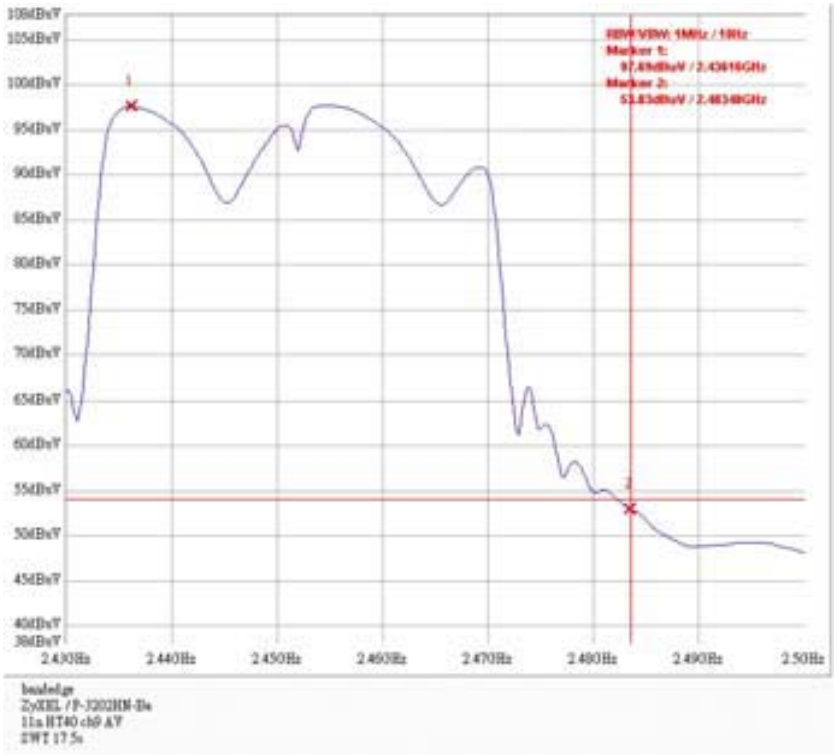
Bandage @ 802.11n (HT40) mode channel 3 (AV)



Bandage @ 802.11n (HT40) mode channel 9 (PK)



Bandage @ 802.11n (HT40) mode channel 9 (AV)



10. AC power line conducted emission

Name of Test	AC power line conducted emission
Base Standard	FCC 15.207

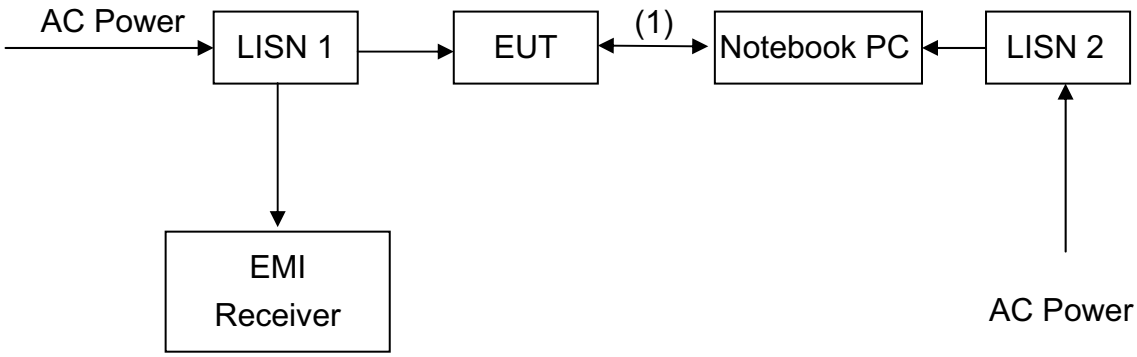
Test Result: Complies
Measurement Data: See Tables & plots below
Method of Measurement:
Reference FCC document: KDB558074, ANSI C63.4

The EUT are connected to the main power through a line impedance stabilization network (LISN). This provides a 50 ohm/50 uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 ohm/ 50 uH coupling impedance with 50 ohm termination.

Both sides (Line and Neutral) of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4/2003 on conducted measurement.
The bandwidth of the field strength meter (R & S Test Receiver ESCS 30) is set at 9kHz.

The EUT configuration please refer to the “Conducted set-up photo.pdf”.

Test Diagram:



(1) RJ-45 UTP Cat.5 10 meter

Emission Limit:

Freq. (MHz)	Conducted Limit (dBuV)	
	Q.P.	Ave.
0.15~0.50	66 – 56*	56 – 46*
0.50~5.00	56	46
5.00~30.0	60	50

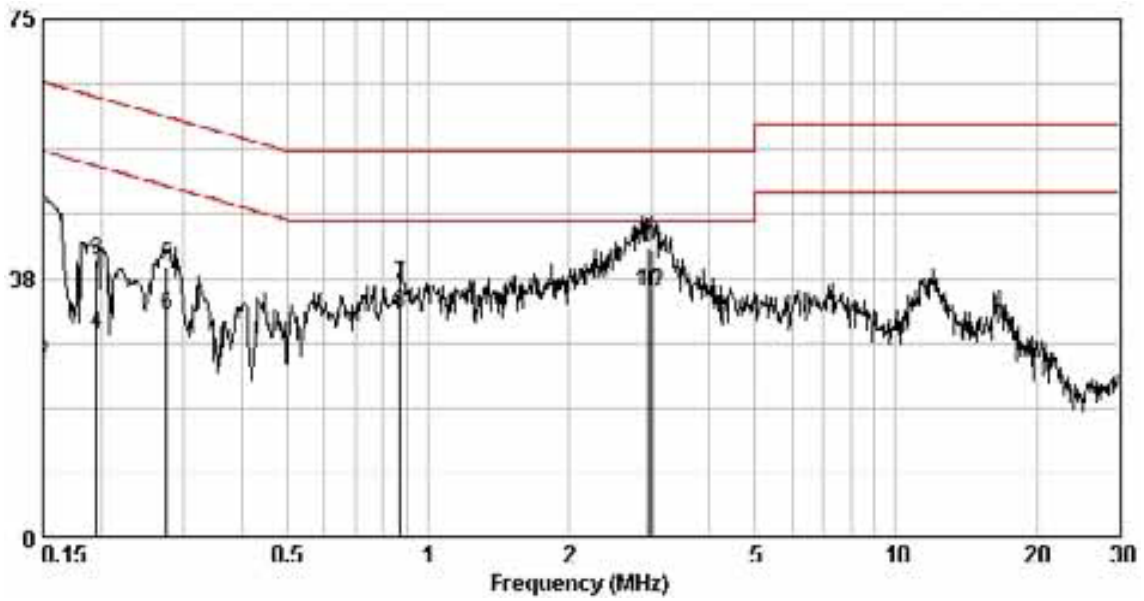
*Decreases with the logarithm of the frequency.

Note: The EUT was tested while in normal communication mode.

Phase : Line
EUT : P-3202HN-Ba
Test Condition : Normal operating mode

Frequency (MHz)	Corr Factor (dB)	Level Qp (dBuV)	Limit Qp (dBuV)	Level AV (dBuV)	Limit Av (dBuV)	Margin (dB) Qp	Av
0.15	0.81	47.32	66.00	25.10	56.00	-18.68	-30.90
0.20	0.81	40.04	63.80	29.42	53.80	-23.76	-24.38
0.28	0.49	39.42	60.94	32.13	50.94	-21.52	-18.81
0.07	0.11	36.47	56.00	32.49	46.00	-19.53	-13.51
2.95	0.22	42.06	56.00	35.37	46.00	-13.94	-10.63
3.01	0.23	41.77	56.00	35.48	46.00	-14.23	-10.52

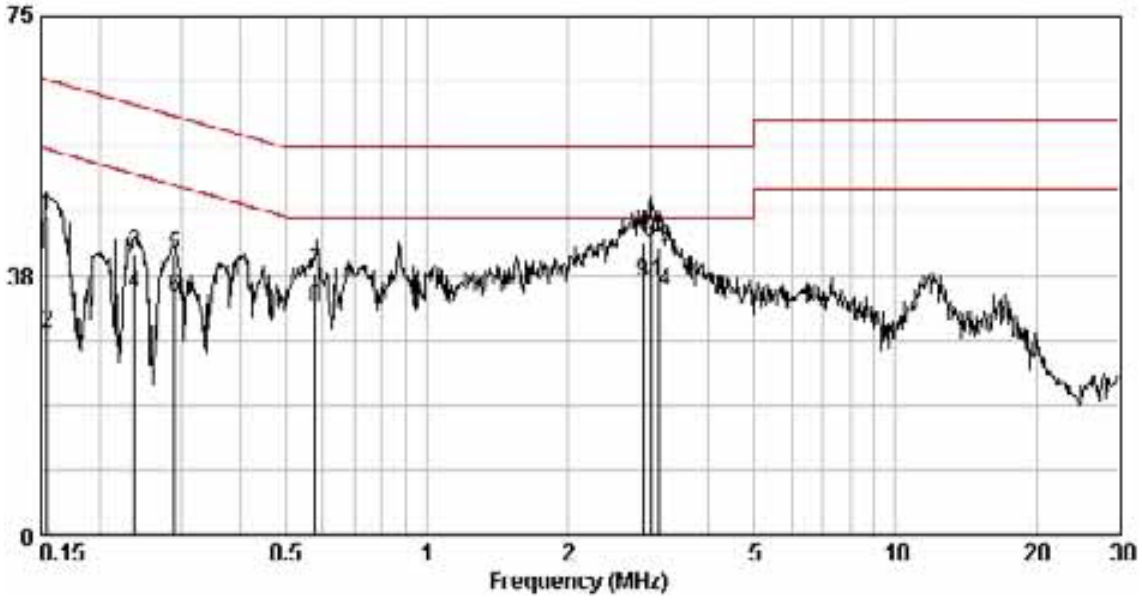
Remark:
1. Correction Factor (dB)= LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Level (dBuV) – Limit (dBuV)



Phase : Neutral
EUT : P-3202HN-Ba
Test Condition : Normal operating mode

Frequency (MHz)	Corr. Factor (dB)	Level Qp (dBuV)	Limit Qp (dBuV)	Level Av (dBuV)	Limit Av (dBuV)	Margin (dB) Qp	Margin (dB) Av
0.15	0.11	46.08	65.74	29.15	55.74	-19.66	-26.59
0.24	0.11	40.77	62.17	34.80	52.17	-21.40	-17.37
0.29	0.11	40.37	60.54	34.31	50.54	-20.18	-16.24
0.58	0.11	37.96	56.00	32.57	46.00	-18.04	-13.43
2.90	0.22	42.37	56.00	36.56	46.00	-13.63	-9.44
3.01	0.23	42.77	56.00	36.63	46.00	-13.23	-9.37
3.12	0.24	41.55	56.00	35.08	46.00	-14.45	-10.92

Remark:
1. Correction Factor (dB)= LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Level (dBuV) – Limit (dBuV)



Appendix A: Test Equipment List

Equipment	Brand	Model No.
EMI Test Receiver	Rohde & Schwarz	ESCS 30
Spectrum Analyzer	Rohde & Schwarz	FSP 30
Spectrum Analyzer	Rohde & Schwarz	FSEK 30
Horn Antenna	SCHWARZBECK	BBHA 9120 D
Horn Antenna	SCHWARZBECK	BBHA 9170
Bilog Antenna	SCHWARZBECK	VULB 9168
Pre-Amplifier	MITEQ	919981
Pre-Amplifier	MITEQ	828825
Controller	HDGmbH	CM 100
Antenna Tower	HDGmbH	MA 2400
LISN	Rohde & Schwarz	ESH3-Z5
Wideband Peak Power Meter/ Sensor	Anritsu	ML2495A/ MA2411B
Temperature Humidity Test Chamber	Juror	TR-4010

Note: 1. The above equipments are within the valid calibration period.
2. The test antennas (receiving antenna) are calibration per 3 years.
3. The video bandwidth of the power meter and sensor can be up to 65 MHz.

Measurement Uncertainty:

Measurement uncertainty was calculated in accordance with TR 100 028-1.

Parameter	Uncertainty
Radiated Emission	±5.056 dB
Conducted Emission	±2.786 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.