

## Appendix B: Emission Test Results

Testing Laboratory: Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134, USA

## **Radiated emissions**

<b>Test Number</b> : 24973					
Basic Standard	Applied to	Class	Freq Range	Test Details / Comments	
Restricted Bandedge Measurements	Enclosure	Enclosure B 2.4GHz - CFR47 Part 15.205,CFR47 Part 15.209,LP002, RSS210			
Operating Mode	Mode: 1, Continuous Transmitting				
Power Input	48, DC (+/-20%)				
Overall Result	Pass				
Comments	No further comments				
Deviation	There were no deviations from the specification				

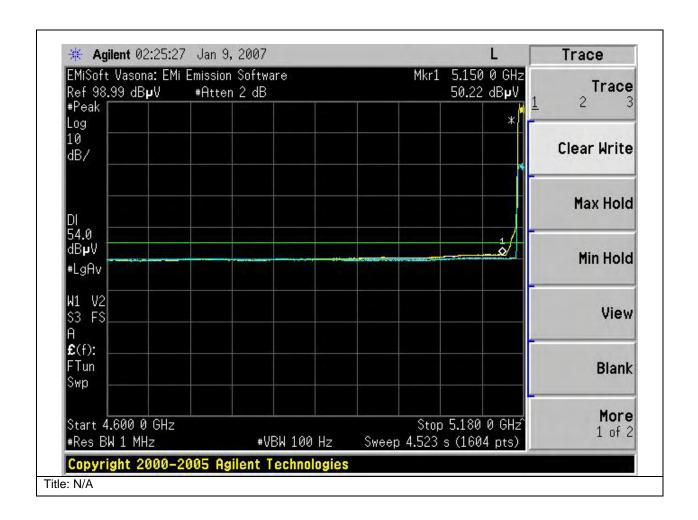
System Number	Description	Samples	System under test	Support equipment
1	EUT	S01, S02, S03 and S04	$\checkmark$	

Frequency (MHz)	Mode	Data Rate (Mbps)	Radiated Band Edge Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
5180	Dual	54	50.2	54	3.8
5180	Duplicate	6	52.5	54	1.5
5320	Dual	54	52.8	54	1.2
5320	Duplicate	6	53.2	54	0.8
5500	Dual	54	51.4	54	2.6
5500	Duplicate	6	52.0	54	2.0
5680	Duplicate	6	52.0	54	2.0
5700	Dual	54	51.7	54	2.3
5745	Dual BF	54	52.4	54	1.6
5745	Duplicate	6	53.0	54	1.0
5805	Duplicate	6	53.0	54	1.0
5825	Dual BF	54	52.8	54	1.2

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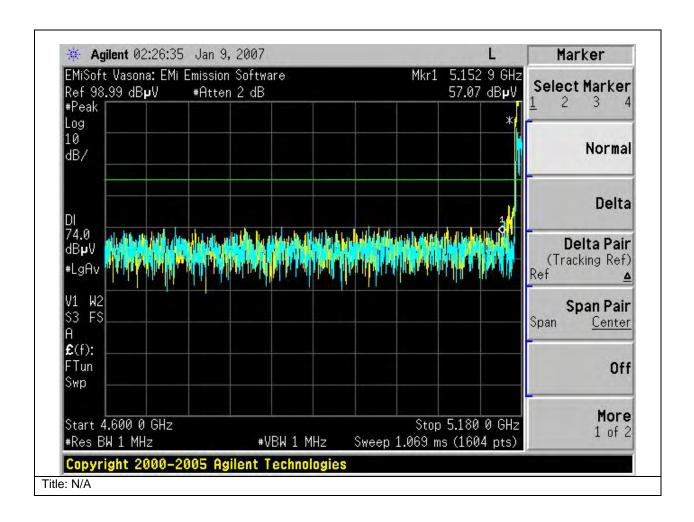


Subtest Number: 2497	73 - 23 Subtest Date: 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5180 MHz, 54 Mbps, 11 dBm, Dual Transmit Paths_AVERAGE
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments



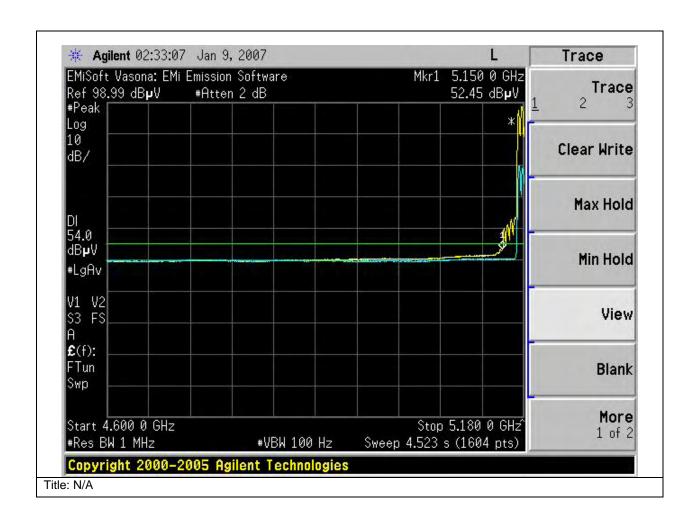


Subtest Number: 2497	73 - 24 <b>Subtest Date</b> : 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5180 MHz, 54 Mbps, 11 dBm, Dual Transmit Paths_PEAK
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments



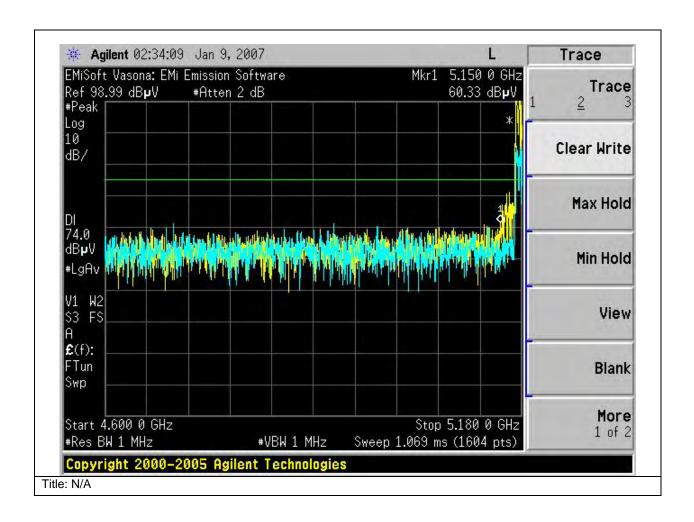


Subtest Number: 2497	73 - 21 <b>Subtest Date:</b> 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5180 MHz, 6 Mbps, 11 dBm, Duplicate 2x20 MHz_AVERAGE
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments



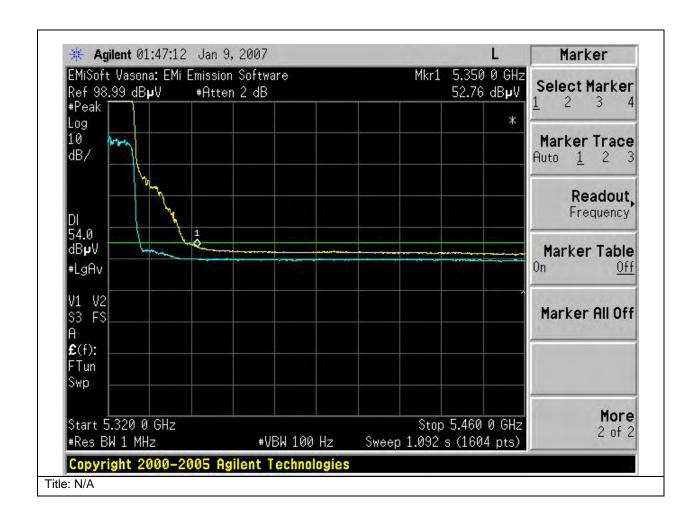


Subtest Number: 2497	73 - 22 <b>Subtest Date</b> : 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5180 MHz, 6 Mbps, 11 dBm, Duplicate 2x20 MHz_PEAK
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments



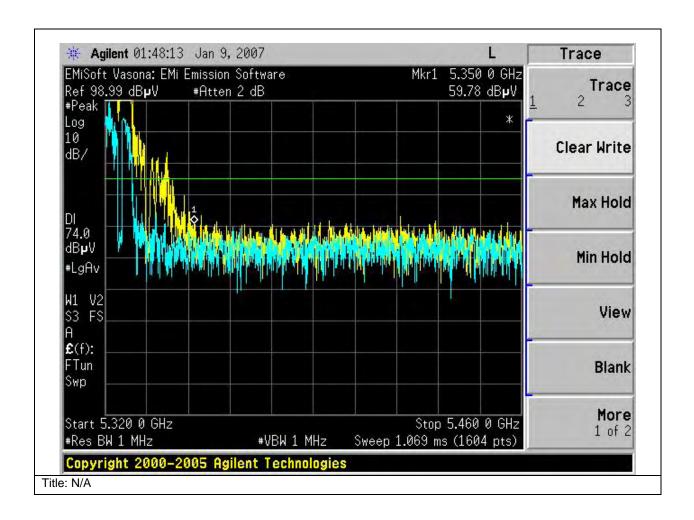


Subtest Number: 2497	3 - 17 <b>Subtest Date:</b> 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5320 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths_AVERAGE
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments



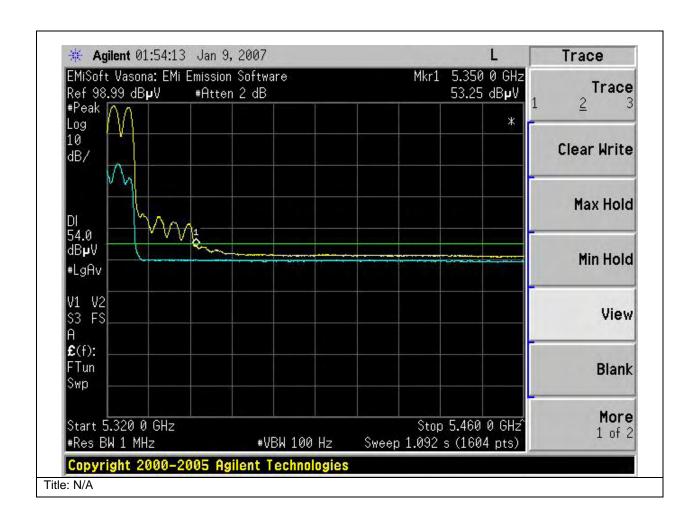


Subtest Number: 2497	73 - 18 <b>Subtest Date</b> : 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5320 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths_PEAK
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments



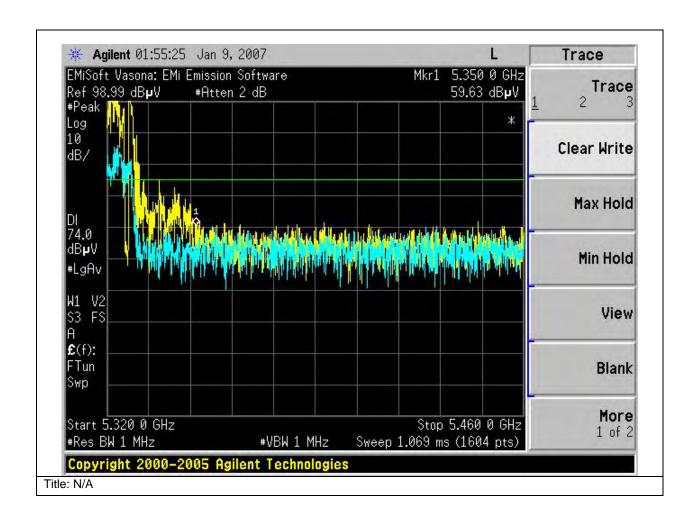


Subtest Number: 2497	3 - 19 Subtest Date: 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5320 MHz, 6 Mbps, 11 dBm, Duplicate 2x20 MHz_AVERAGE
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments



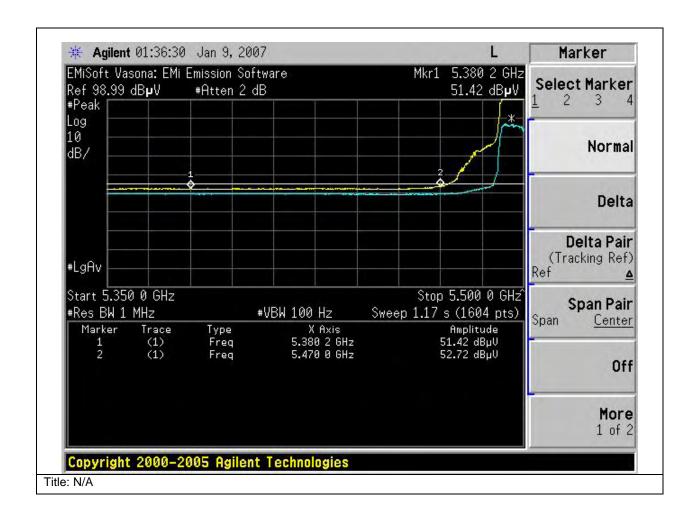


Subtest Number: 2497	73 - 20 <b>Subtest Date</b> : 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	•
Subtest Title	RESTRICTED BAND EDGE, 5320 MHz, 6 Mbps, 11 dBm, Duplicate 2x20 MHz_PEAK
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments



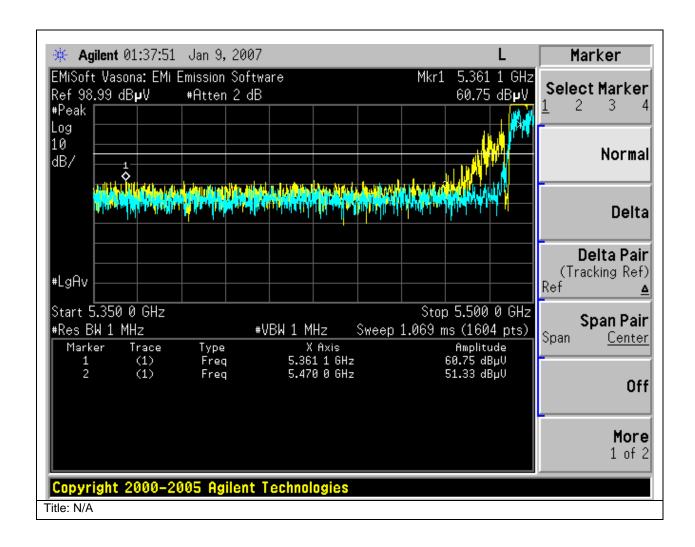


Subtest Number: 2497	3 - 12 <b>Subtest Date:</b> 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5500 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths_AVERAGE
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments



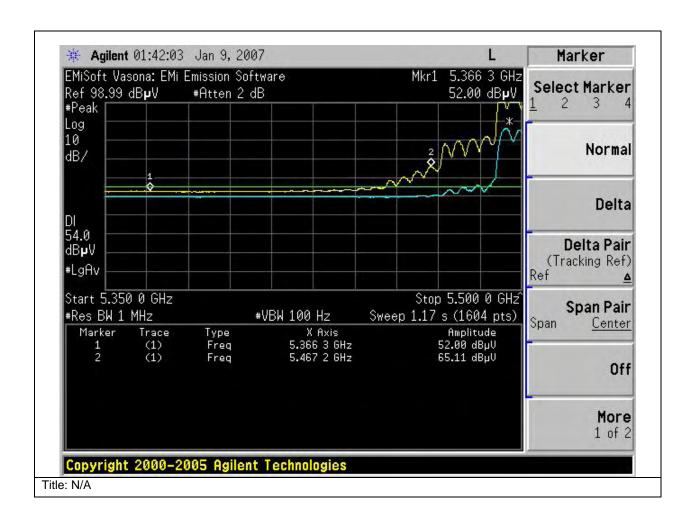


Subtest Number: 2497	73 - 11 <b>Subtest Date</b> : 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5500 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths_PEAK
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments



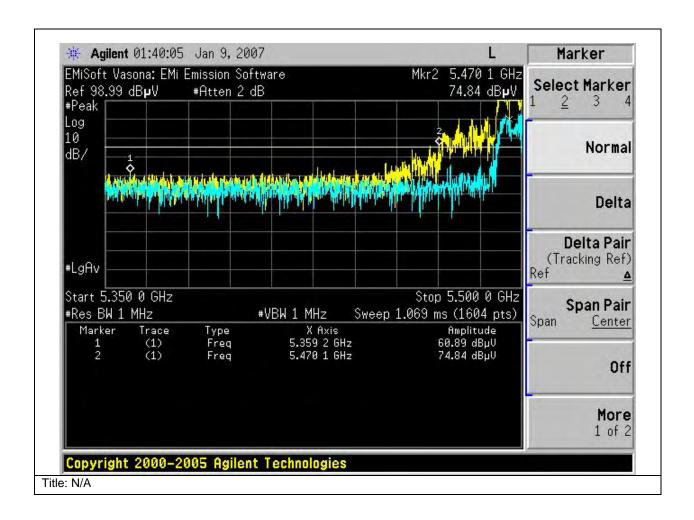


Subtest Number: 2497	73 - 13 <b>Subtest Date:</b> 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5500 MHz, 6 Mbps, 17 dBm, Duplicate 2x20 MHz_AVERAGE
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments



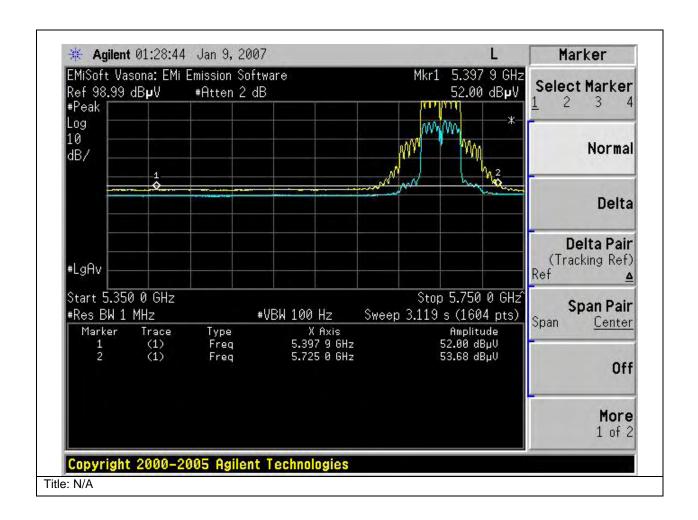


Subtest Number: 2497	73 - 14 <b>Subtest Date</b> : 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5500 MHz, 6 Mbps, 14 dBm, Duplicate 2x20 MHz_PEAK
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments



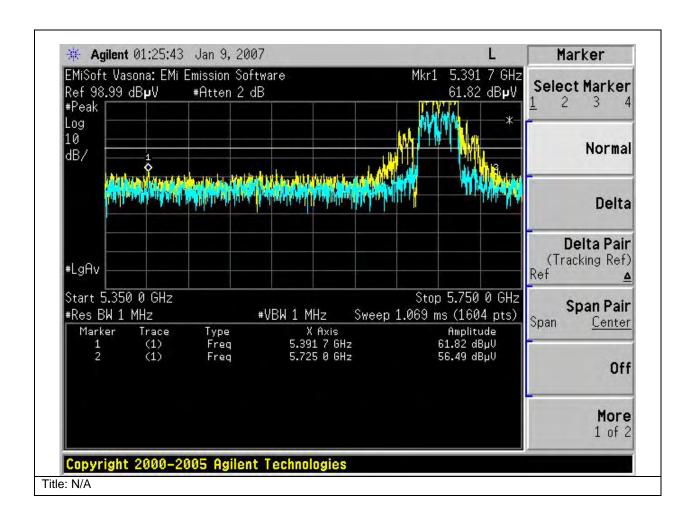


Subtest Number: 2497	3 - 7 Subtest Date: 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5680 MHz, 6 Mbps, 17 dBm, Duplicate 2x20 MHz_AVERAGE
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments



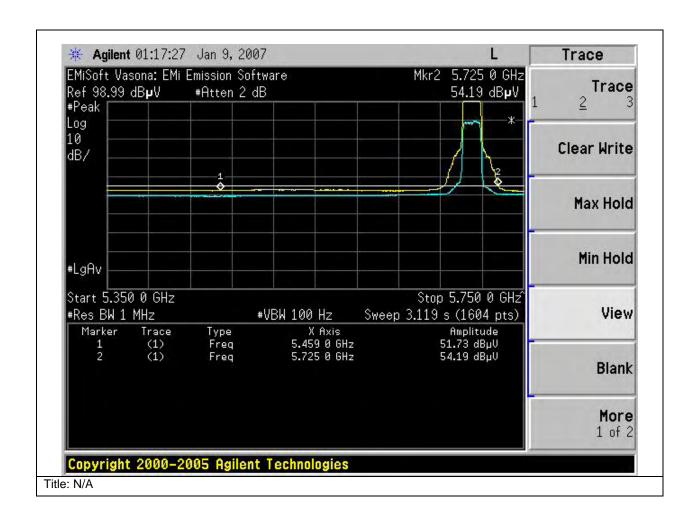


Subtest Number: 2497	3 - 8 <b>Subtest Date:</b> 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5680 MHz, 6 Mbps, 17 dBm, Duplicate 2x20 MHz_PEAK
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments



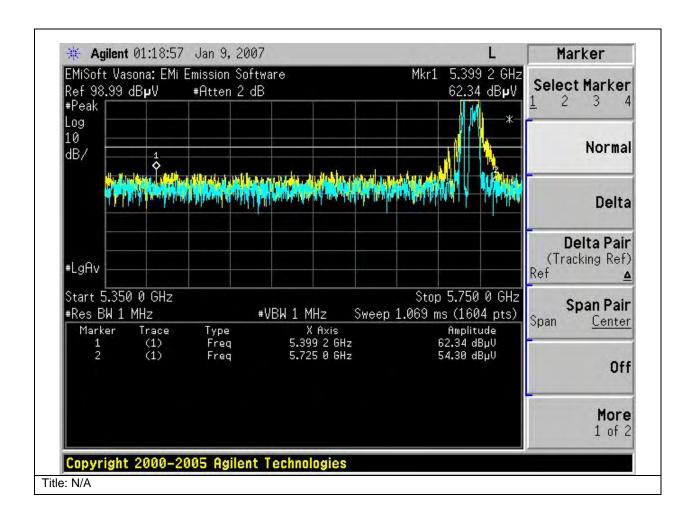


Subtest Number: 2497	73 - 9 <b>Subtest Date</b> : 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5700 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths_AVERAGE
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments



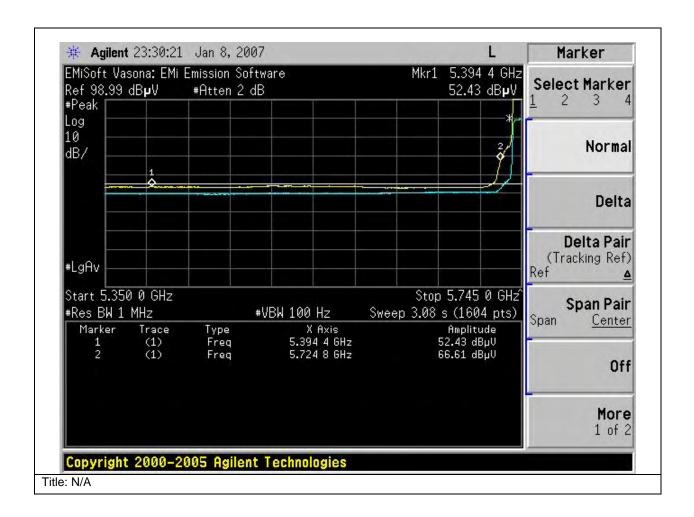


Subtest Number: 2497	73 - 10 <b>Subtest Date</b> : 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5700 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths_PEAK
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments



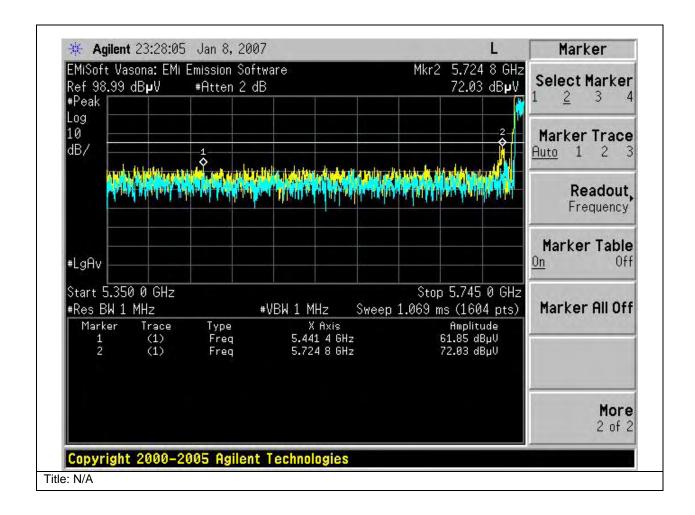


Subtest Number: 2497	73 - 1 Subtest Date: 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5745 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths with Beam Forming_AVERAGE
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments



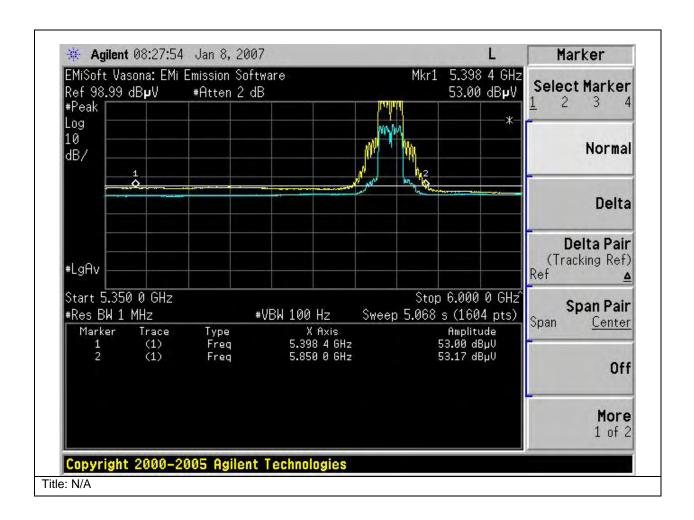


Subtest Number: 2497	3 - 2 Subtest Date: 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5745 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths with Beam Forming_PEAK
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments



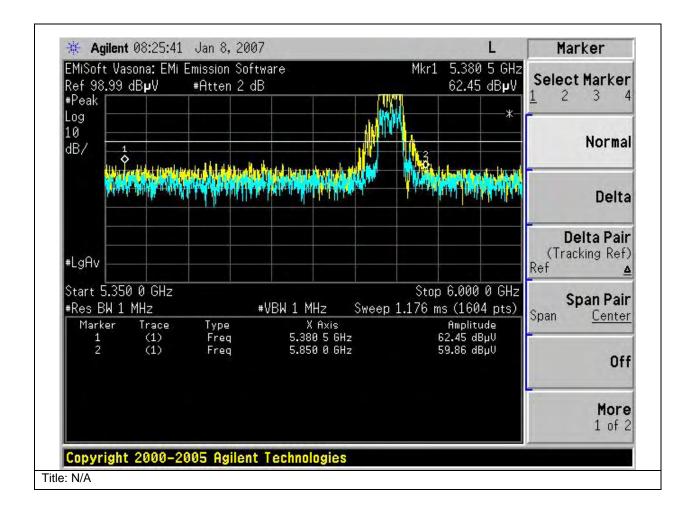


Subtest Number: 2497	3 - 3 Subtest Date: 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5805 MHz, 54 Mbps, 17 dBm, Duplicate 2x20 MHz_AVERAGE
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments



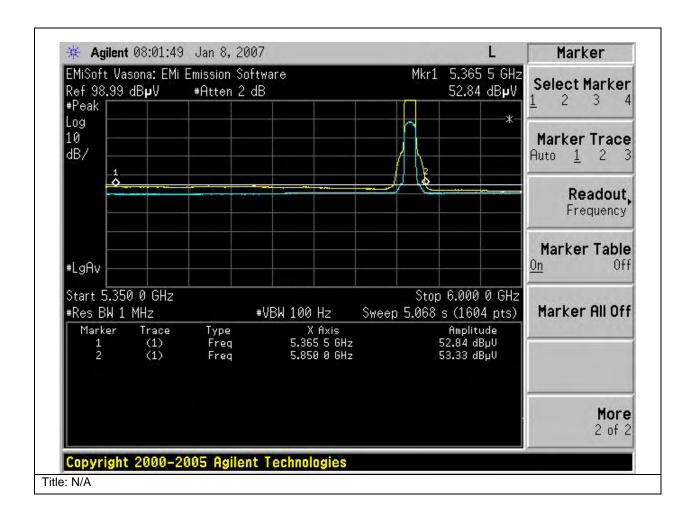


Subtest Number: 24973	3 - 4 <b>Subtest Date:</b> 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5805 MHz, 54 Mbps, 17 dBm, Duplicate 2x20 MHz_PEAK
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments



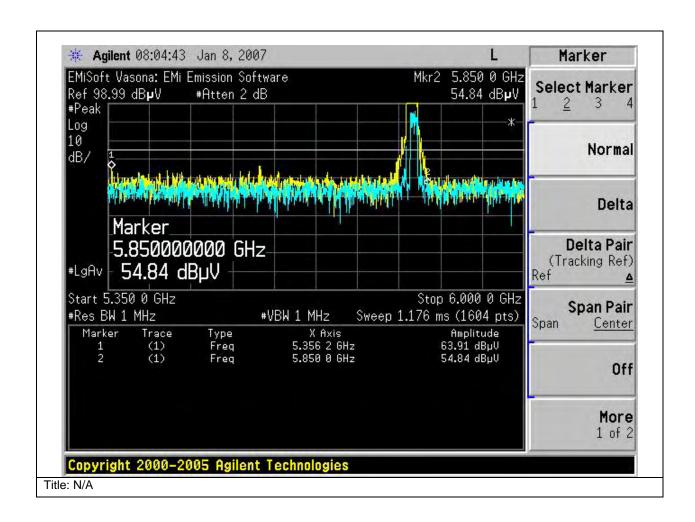


Subtest Number: 2497	73 - 5 <b>Subtest Date:</b> 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5825 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths with Beam Forming_AVERAGE
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments





Subtest Number: 2497	3 - 6 Subtest Date: 08-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RESTRICTED BAND EDGE, 5825 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths with Beam Forming_PEAK
Subtest Result	Pass
Highest Frequency	N/A
Lowest Frequency	N/A
Comments on the above Test Results	No further comments





## **Radiated emissions**

<b>Test Number</b> : 25010 <b>Spec ID</b> : 647					
Basic Standard	Applied to	Class	Freq Range	Test Details / Comments	
Radiated Spurious Emissions	Enclosure	Enclosure B 30MHz-1.0GHz CFR47 Part 15.109CFR47 Part 15.247, CFR47 Part 15.407, RSS-210, LP0002			
Operating Mode	Mode: 1, Continuous Transmitting				
Power Input	110, 60Hz (+/-20%)				
Overall Result	Pass				
Comments	There were no discernable emissions above 18GHz.				
Deviation	There were no deviations from the specification				

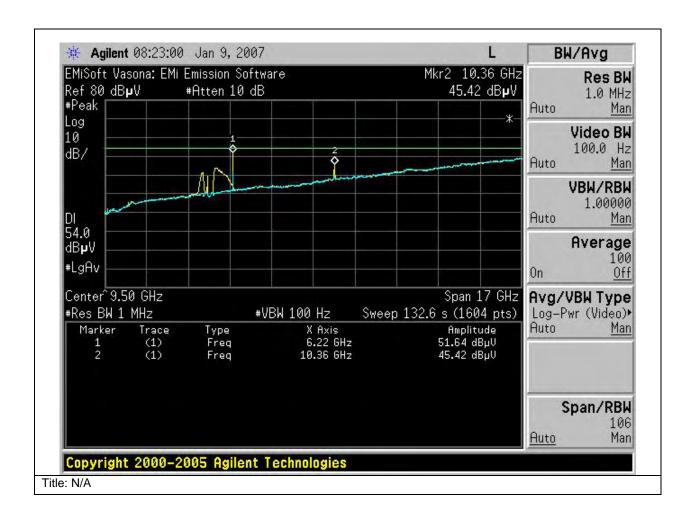
System Number	Description	Samples	System under test	Support equipment
1	EUT	S01, S02, S03 and S04	N	

Frequency (MHz)	Mode	Data Rate (Mbps)	Radiated Spurious Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
5180	Dual	54	51.3	54	2.7
5180	Duplicate	6	49.6	54	4.4
5260	Dual	54	49.0	54	5.0
5260	Duplicate	6	45.8	54	8.2
5320	Dual	54	46.5	54	7.5
5320	Duplicate	6	44.1	54	9.9
5500	Dual	54	49.1	54	4.9
5500	Duplicate	6	49.4	54	4.6
5600	Dual	54	48.9	54	5.1
5600	Duplicate	6	48.3	54	5.7
5680	Duplicate	6	44.3	54	9.7
5700	Dual	54	44.4	54	9.6
5745	Dual BF	54	44.9	54	9.1
5745	Duplicate	6	43.5	54	10.5
5785	Dual BF	54	44.8	54	9.2
5785	Duplicate	6	45.3	54	8.7
5805	Duplicate	6	44.5	54	9.5
5825	Dual BF	54	45.6	54	8.4

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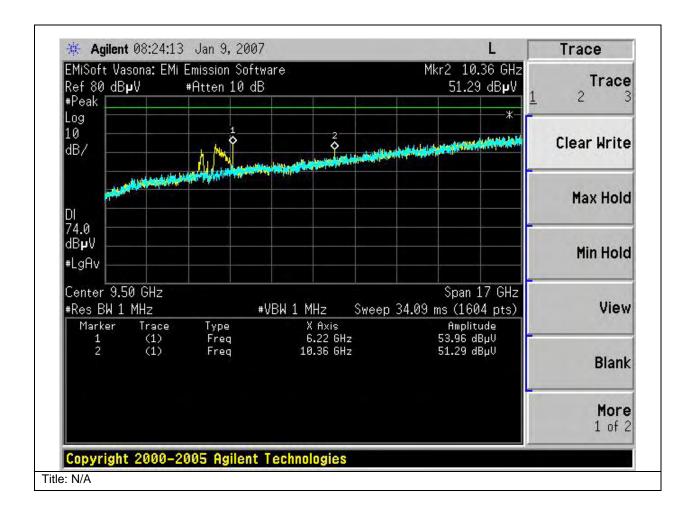


Subtest Number: 2501	0 - 3 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5180 MHz, 54 Mbps, 11 dBm, Dual Transmit Paths_AVERAGE
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



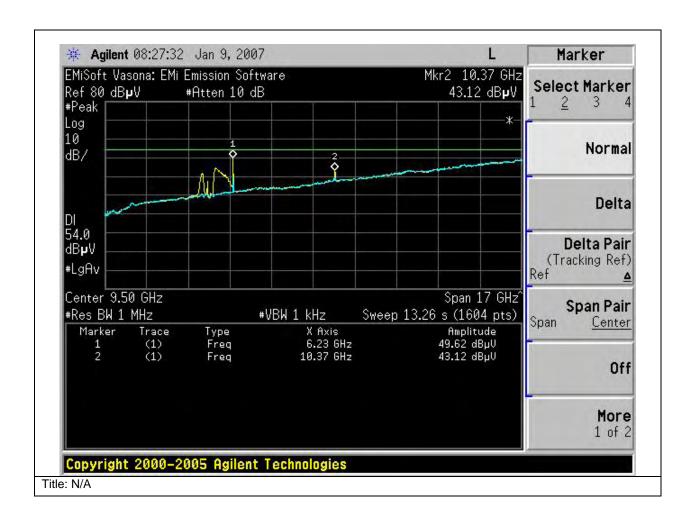


Subtest Number: 2501	0 - 4 <b>Subtest Date</b> : 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5180 MHz, 54 Mbps, 11 dBm, Dual Transmit Paths_PEAK
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



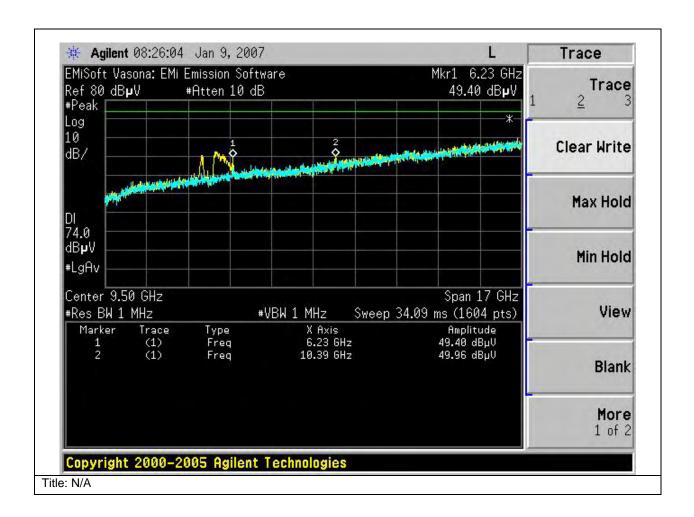


Subtest Number: 2501	0 - 1 Subtest Date: 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5180 MHz, 6 Mbps, 11 dBm, Duplicate 2x20 MHz_AVERAGE
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



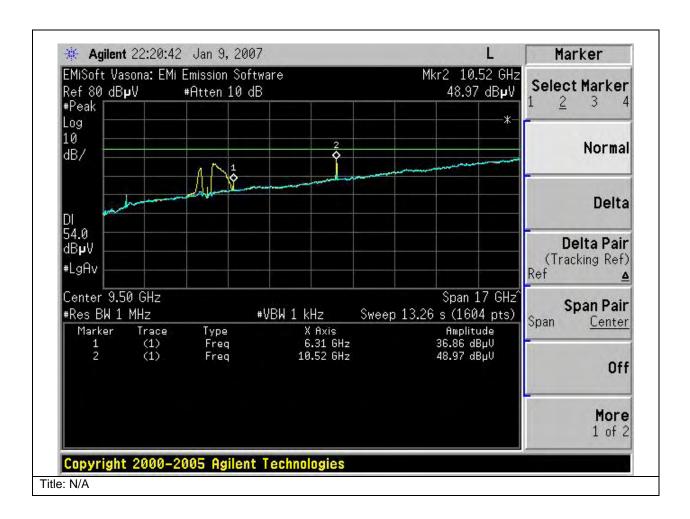


Subtest Number: 2501	0 - 2 <b>Subtest Date</b> : 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5180 MHz, 6 Mbps, 11 dBm, Duplicate 2x20 MHz_PEAK
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



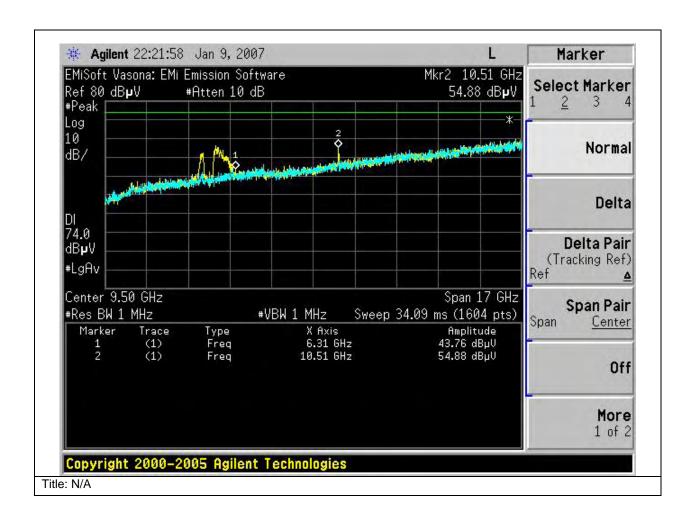


Subtest Number: 2501	0 - 7 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5260 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths_AVERAGE
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



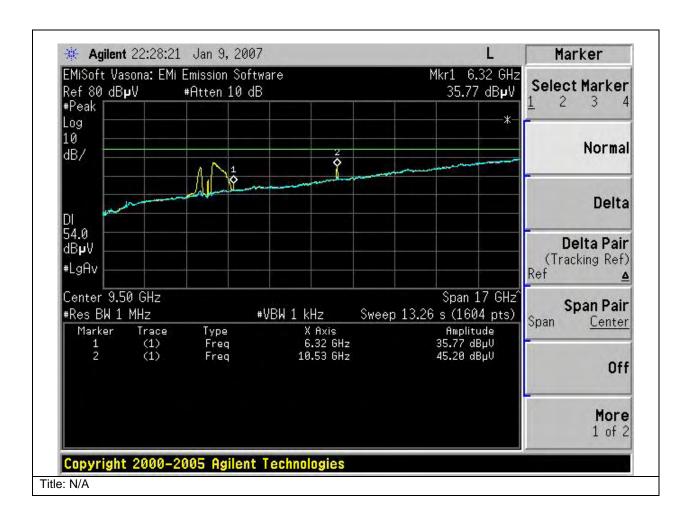


Subtest Number: 2501	0 - 8 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5260 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths_PEAK
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



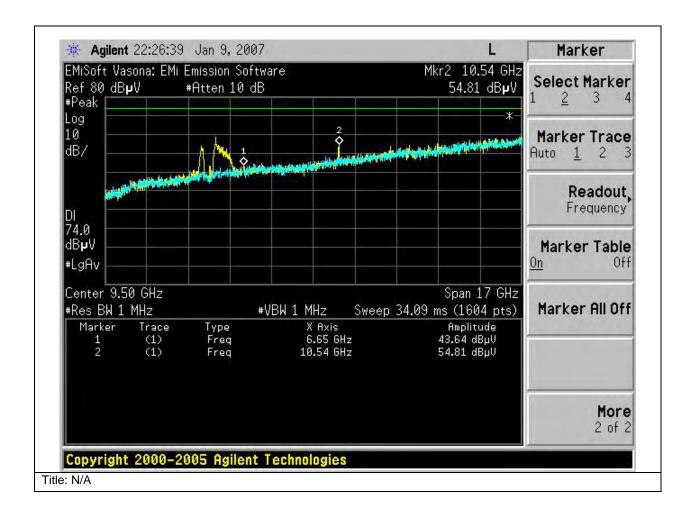


Subtest Number: 2501	0 - 5 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5260 MHz, 6 Mbps, 17 dBm, Duplicate 2x20 MHz_AVERAGE
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



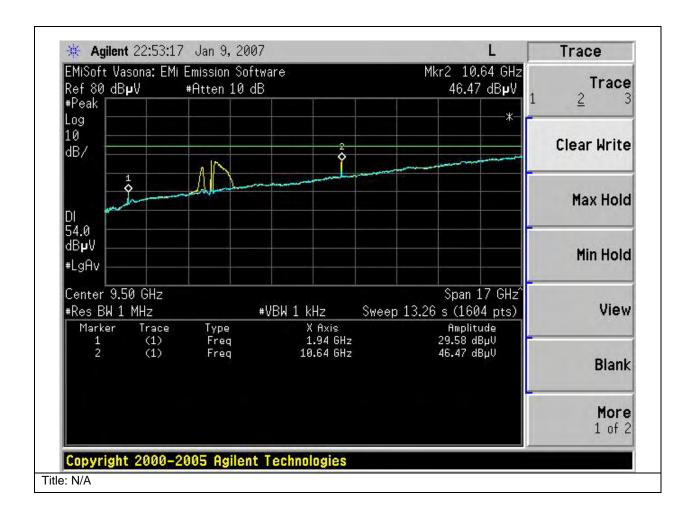


Subtest Number: 2501	0 - 6 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5260 MHz, 6 Mbps, 17 dBm, Duplicate 2x20 MHz_PEAK
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



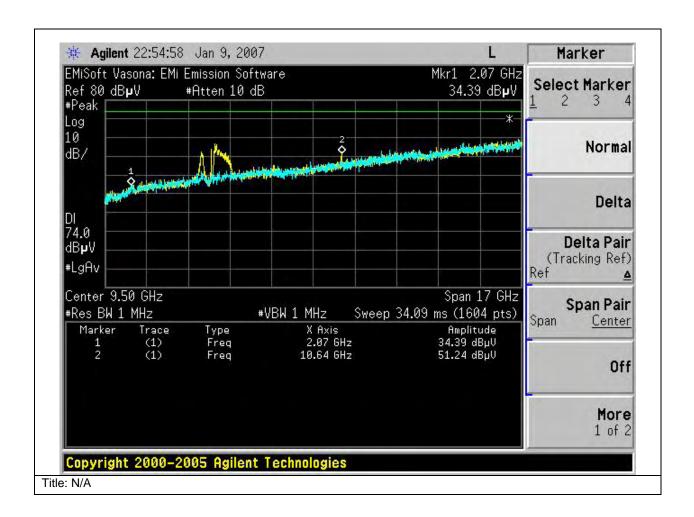


Subtest Number: 2501	0 - 15 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5320 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths_AVERAGE
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



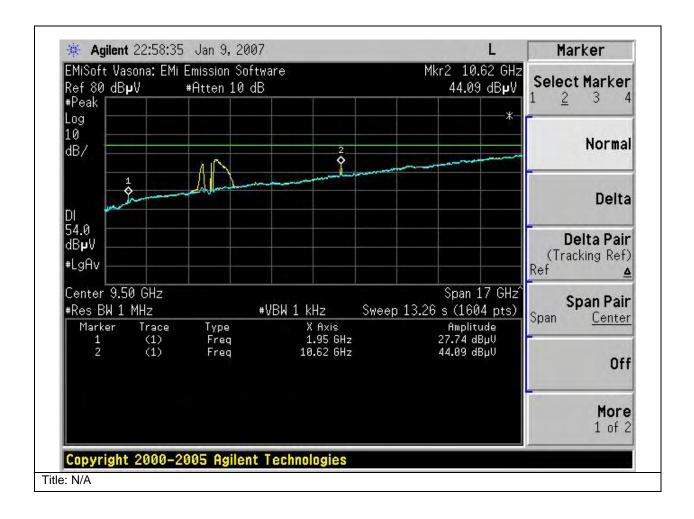


Subtest Number: 2501	0 - 16 <b>Subtest Date</b> : 09-Jan-2007	
Engineer	James Nicholson	
Lab Information	Building P, 10m Anechoic	
Subtest Results		
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5320 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths_PEAK	
Subtest Result	Pass	
Highest Frequency	18000.0	
Lowest Frequency	1000.0	
Comments on the above Test Results	No further comments	



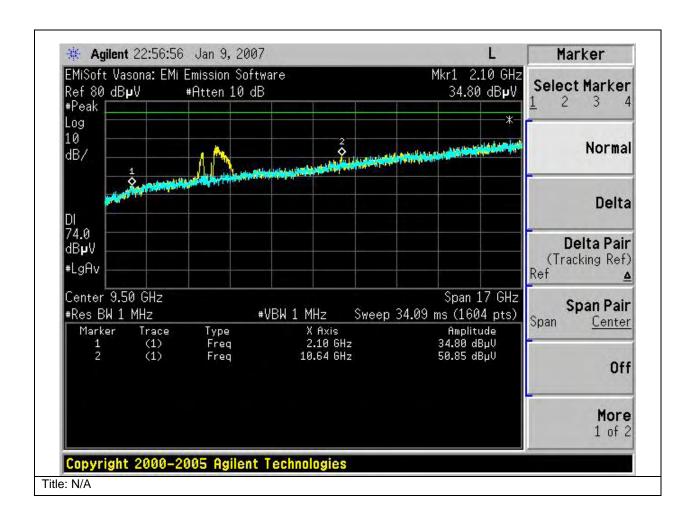


Subtest Number: 2501	10 - 13 <b>Subtest Date</b> : 09-Jan-2007	
Engineer	James Nicholson	
Lab Information	Building P, 10m Anechoic	
Subtest Results		
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5320 MHz, 6 Mbps, 11 dBm, Duplicate 2x20 MHz_AVERAGE	
Subtest Result	Pass	
Highest Frequency	18000.0	
Lowest Frequency	1000.0	
Comments on the above Test Results	No further comments	



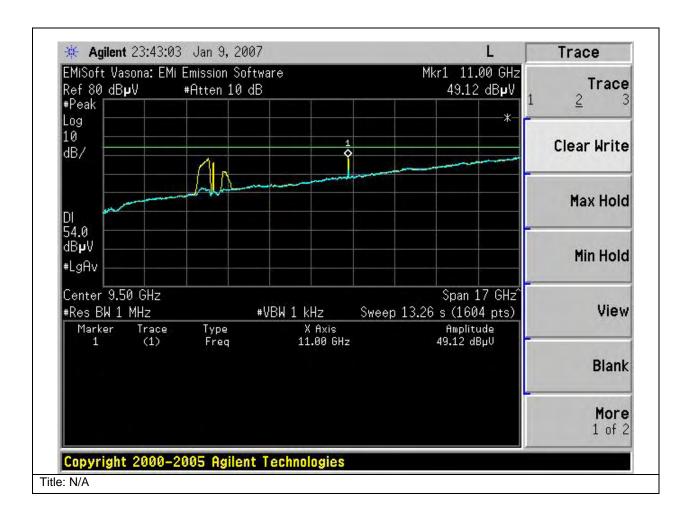


Subtest Number: 250	10 - 14 <b>Subtest Date</b> : 09-Jan-2007	
Engineer	James Nicholson	
Lab Information	Building P, 10m Anechoic	
Subtest Results		
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5320 MHz, 6 Mbps, 11 dBm, Duplicate 2x20 MHz_PEAK	
Subtest Result	Pass	
Highest Frequency	18000.0	
Lowest Frequency	1000.0	
Comments on the above Test Results	No further comments	



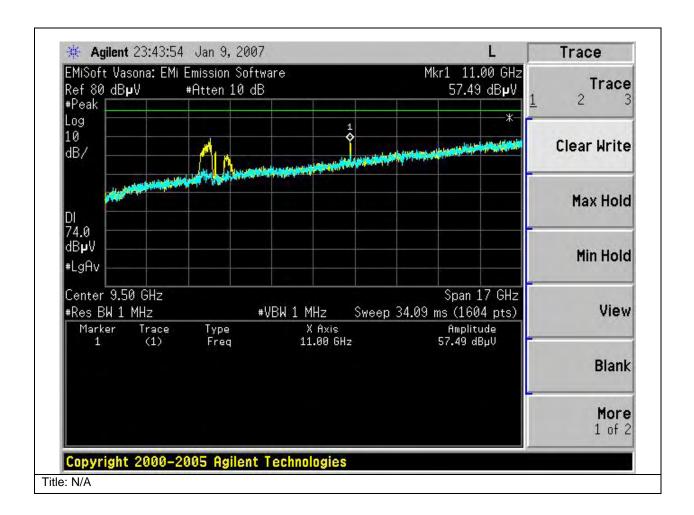


Subtest Number: 25010	0 - 19 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5500 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths_AVERAGE
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



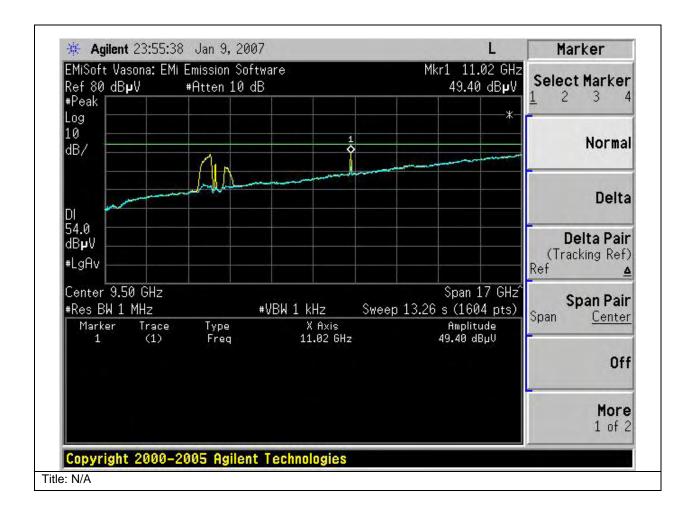


Subtest Number: 2501	0 - 20 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5500 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths_PEAK
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



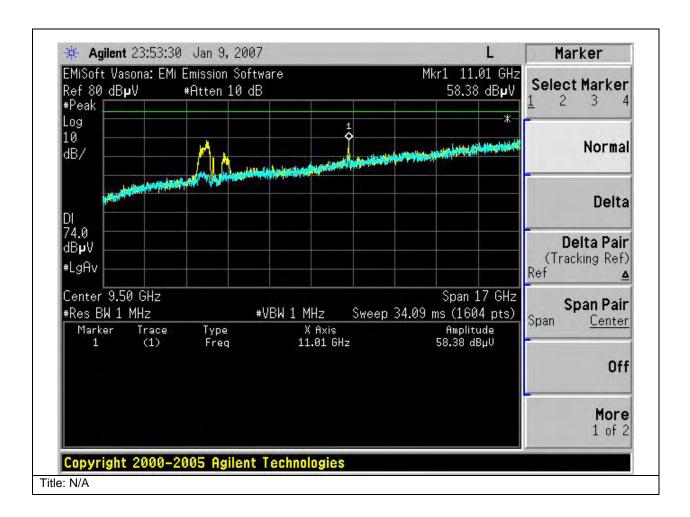


Subtest Number: 2501	0 - 17 Subtest Date: 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5500 MHz, 6 Mbps, 17 dBm, Duplicate 2x20 MHz_AVERAGE
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



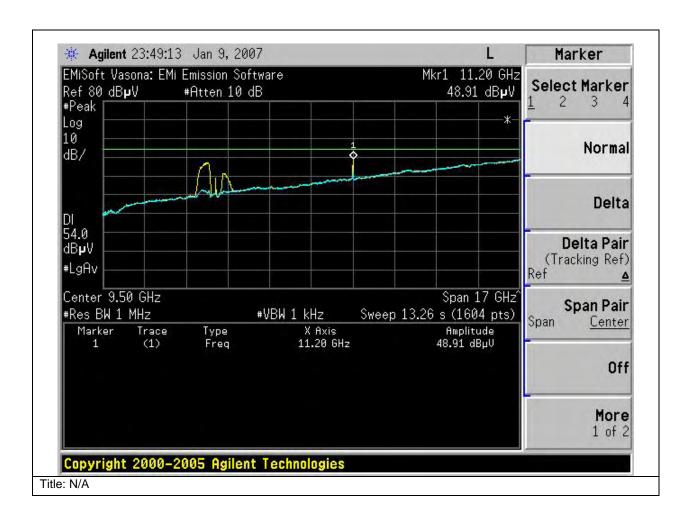


Subtest Number: 2501	0 - 18 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5500 MHz, 6 Mbps, 17 dBm, Duplicate 2x20 MHz_PEAK
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



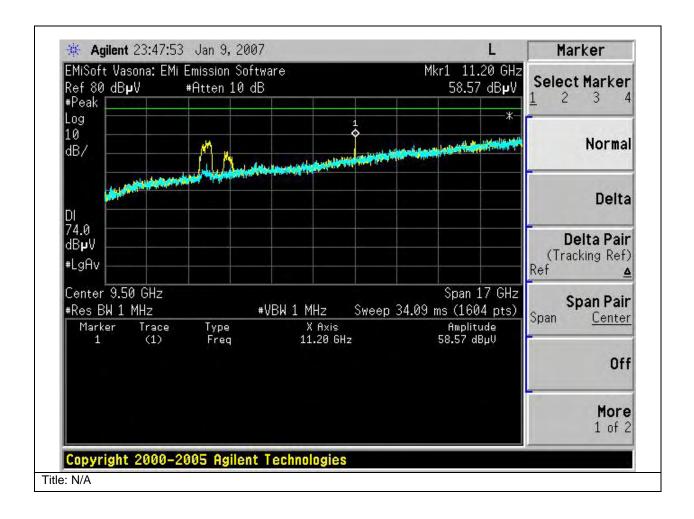


Subtest Number: 2501	0 - 23 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5600 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths_AVERAGE
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



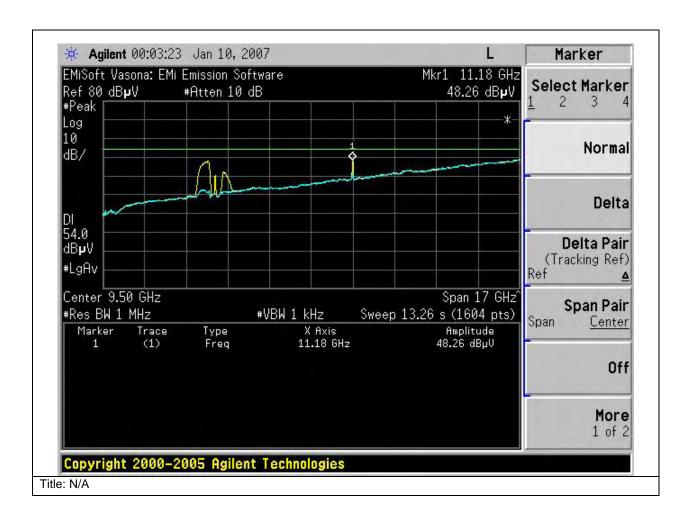


Subtest Number: 2501	10 - 24 <b>Subtest Date</b> : 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5600 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths_PEAK
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



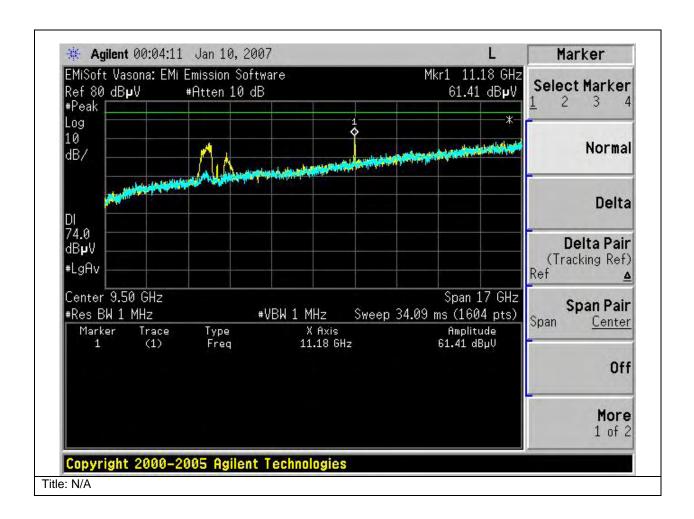


Subtest Number: 2501	0 - 21 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5600 MHz, 6 Mbps, 17 dBm, Duplicate 2x20 MHz_AVERAGE
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



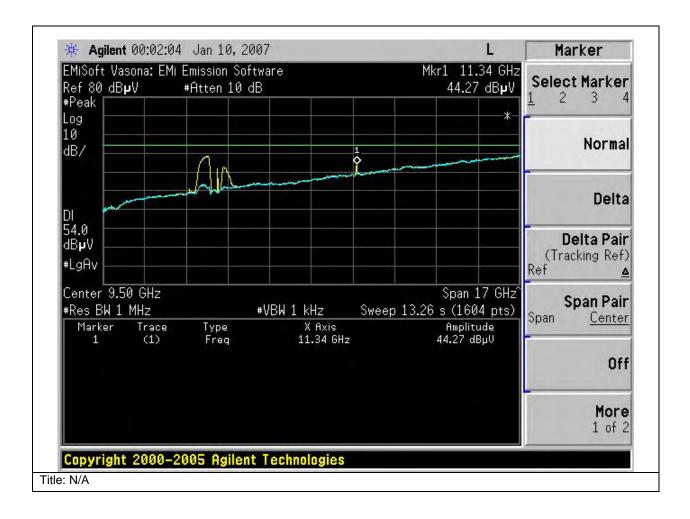


Subtest Number: 2501	0 - 22 Subtest Date: 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5600 MHz, 6 Mbps, 17 dBm, Duplicate 2x20 MHz_PEAK
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



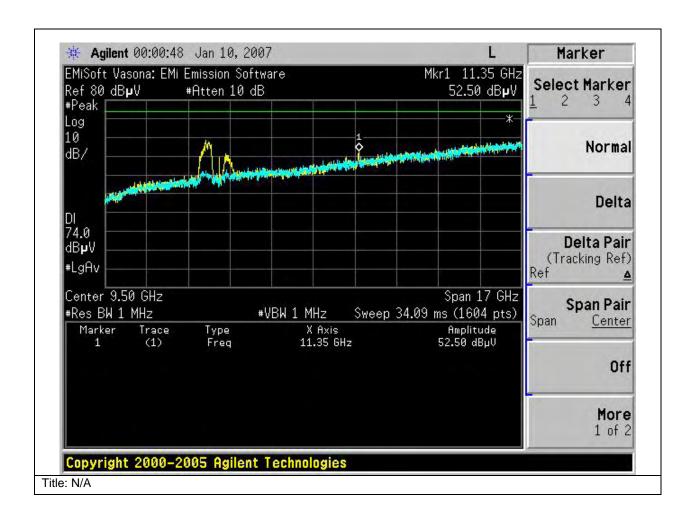


Subtest Number: 2501	0 - 25 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5680 MHz, 6 Mbps, 17 dBm, Duplicate 2x20 MHz_AVERAGE
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



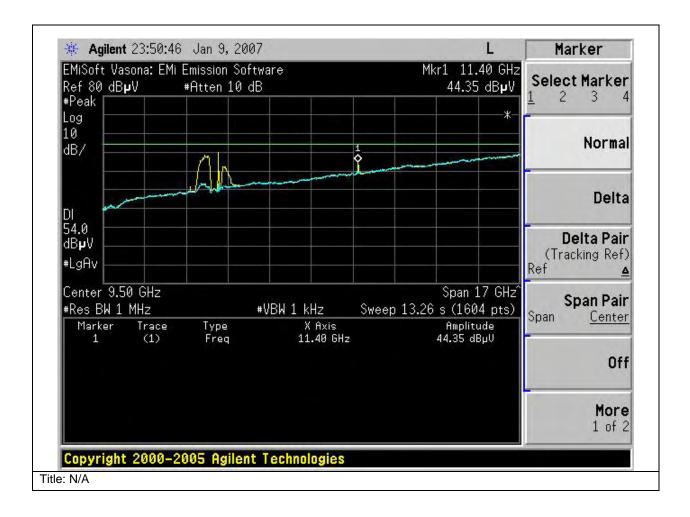


Subtest Number: 2501	0 - 26 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5680 MHz, 6 Mbps, 17 dBm, Duplicate 2x20 MHz_PEAK
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



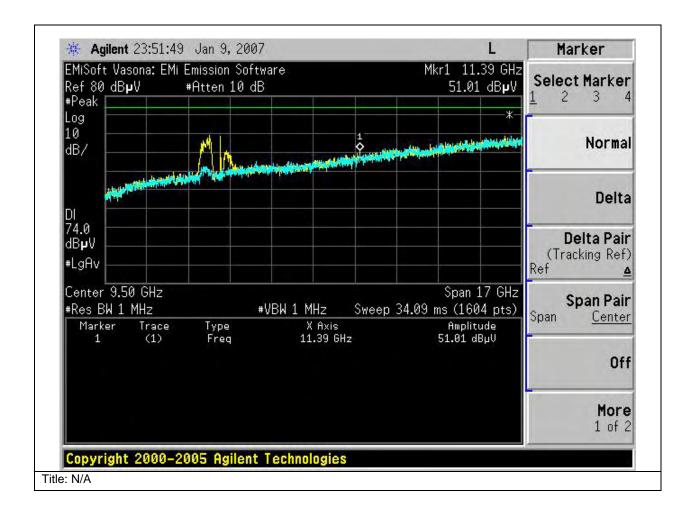


Subtest Number: 2501	0 - 27 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5700 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths_AVERAGE
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



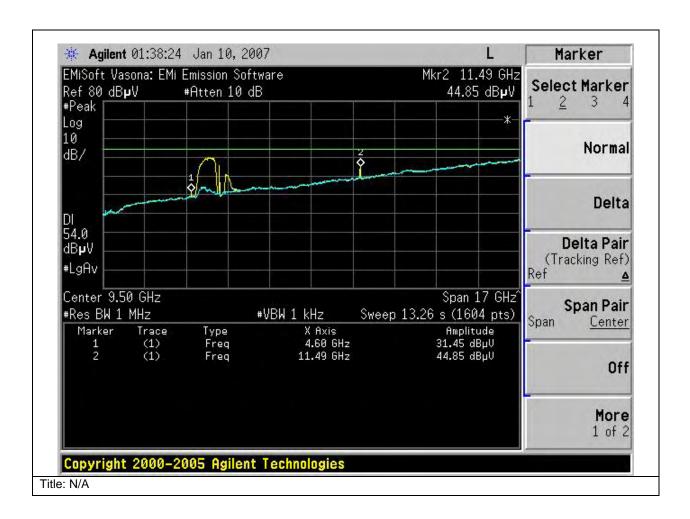


Subtest Number: 2501	0 - 28 <b>Subtest Date</b> : 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5700 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths_PEAK
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



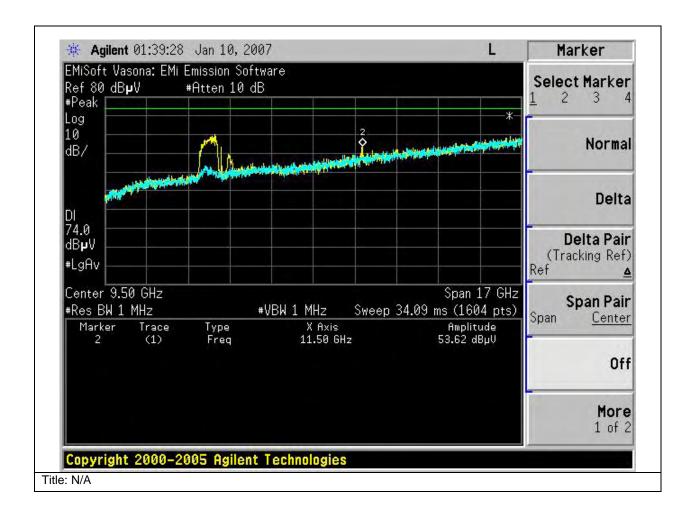


Subtest Number: 2501	0 - 29 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5745 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths with Beam Forming_AVERAGE
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



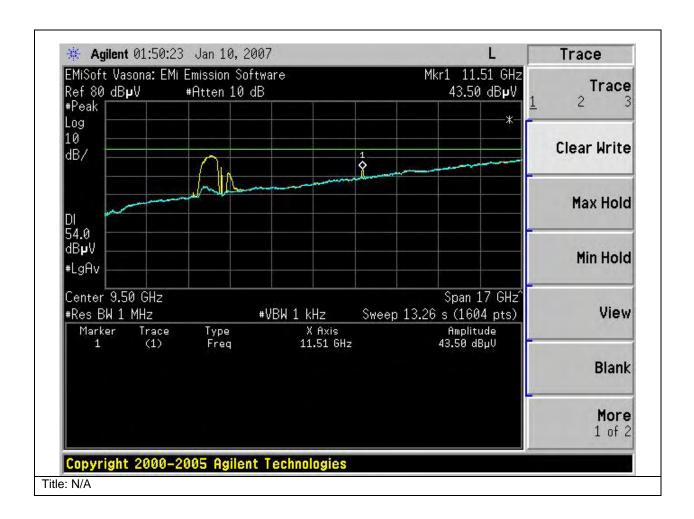


Subtest Number: 2501	10 - 30 <b>Subtest Date</b> : 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5745 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths with Beam Forming_PEAK
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



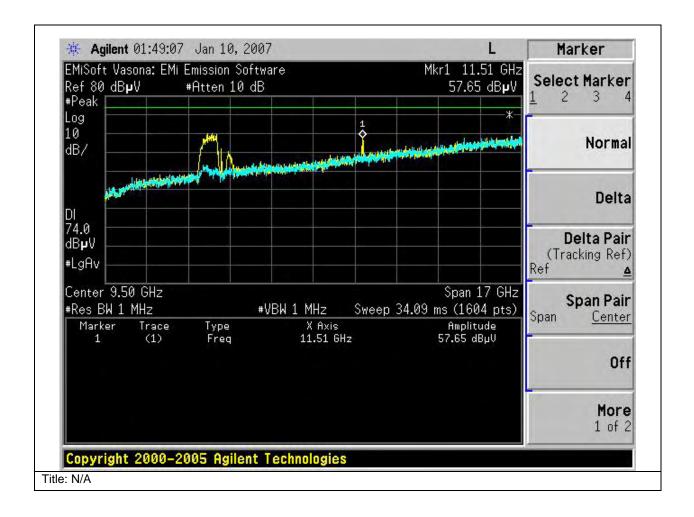


Subtest Number: 2501	0 - 31 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5745 MHz, 6 Mbps, 17 dBm, Duplicate 2x20 MHz_AVERAGE
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



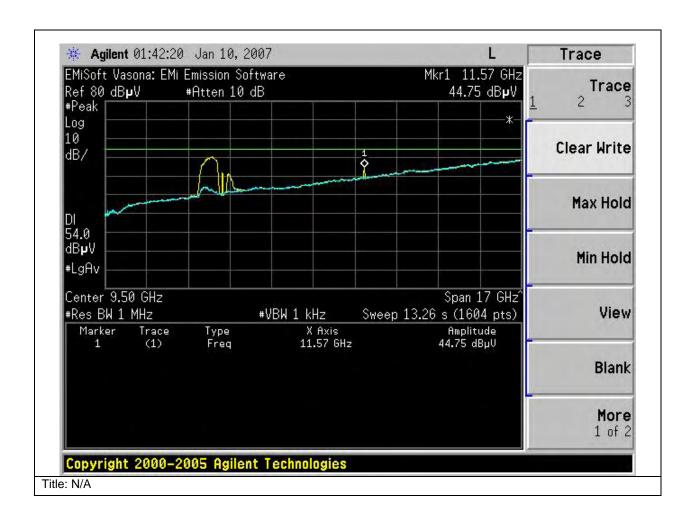


Subtest Number: 2501	0 - 32 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5745 MHz, 6 Mbps, 17 dBm, Duplicate 2x20 MHz_PEAK
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



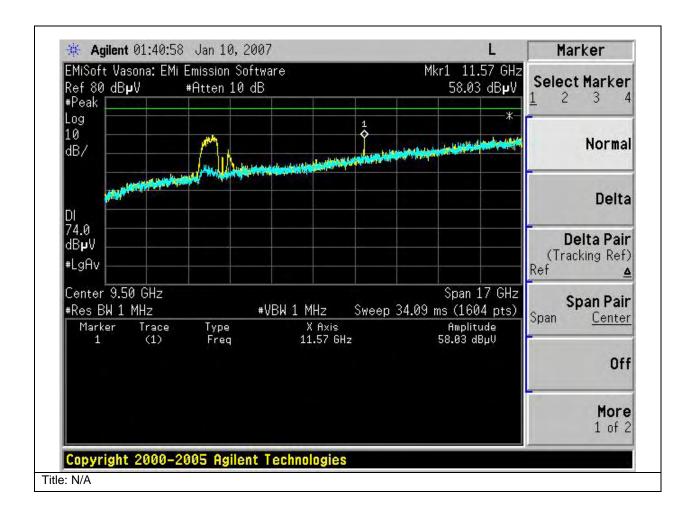


Subtest Number: 2501	0 - 35 <b>Subtest Date</b> : 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5785 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths with Beam Forming_AVERAGE
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



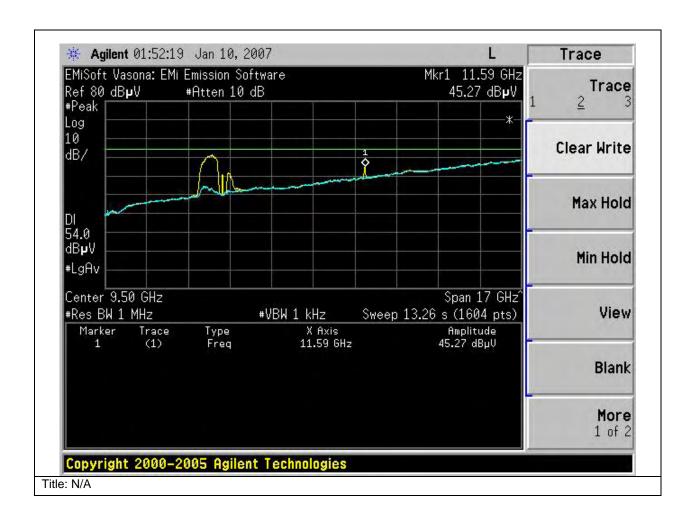


Subtest Number: 2501	0 - 36 <b>Subtest Date</b> : 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5785 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths with Beam Forming_PEAK
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



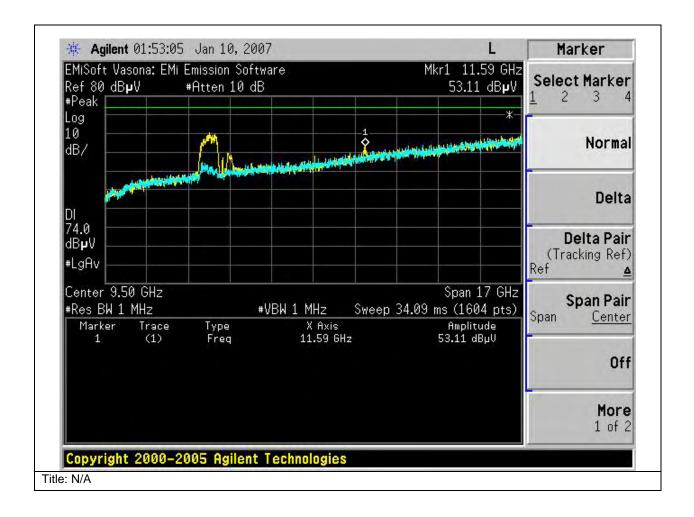


Subtest Number: 2501	0 - 33 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5785 MHz, 6 Mbps, 17 dBm, Duplicate 2x20 MHz_AVERAGE
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



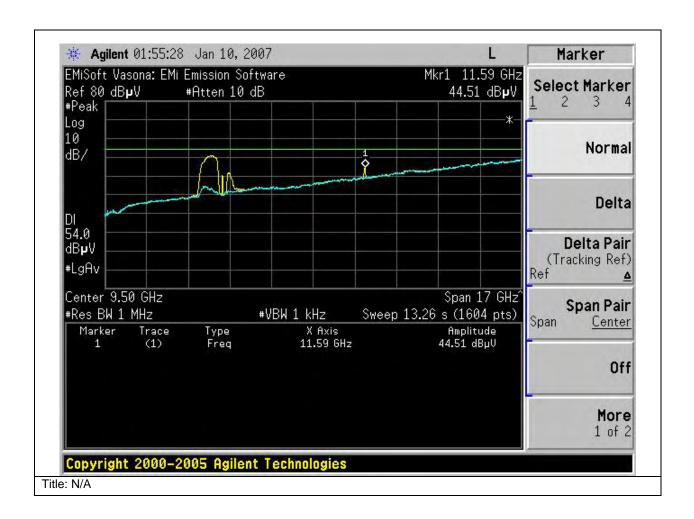


Subtest Number: 2501	0 - 34 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5785 MHz, 6 Mbps, 17 dBm, Duplicate 2x20 MHz_PEAK
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



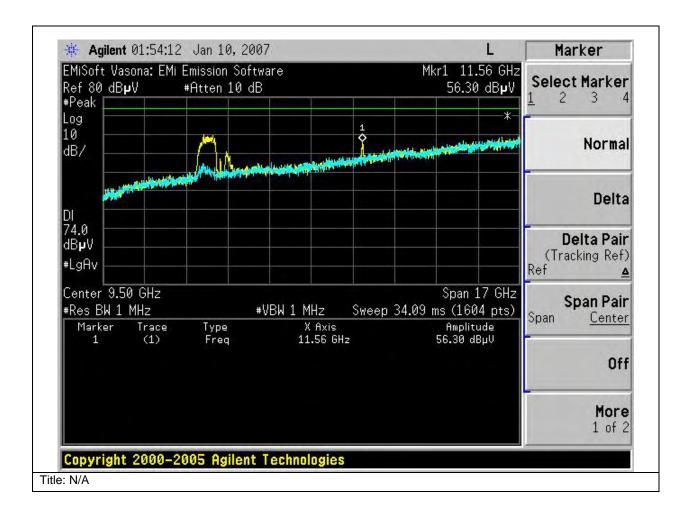


Subtest Number: 2501	10 - 37 <b>Subtest Date</b> : 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5805 MHz, 6 Mbps, 17 dBm, Duplicate 2x20 MHz_AVERAGE
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



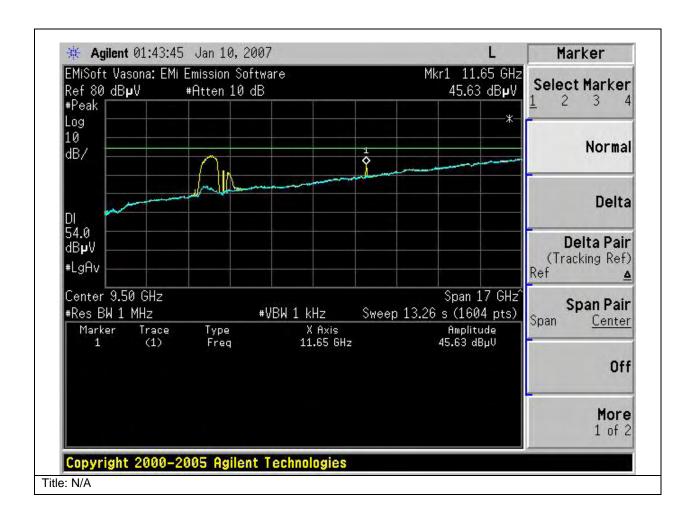


Subtest Number: 2501	0 - 38 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5805 MHz, 6 Mbps, 17 dBm, Duplicate 2x20 MHz_PEAK
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



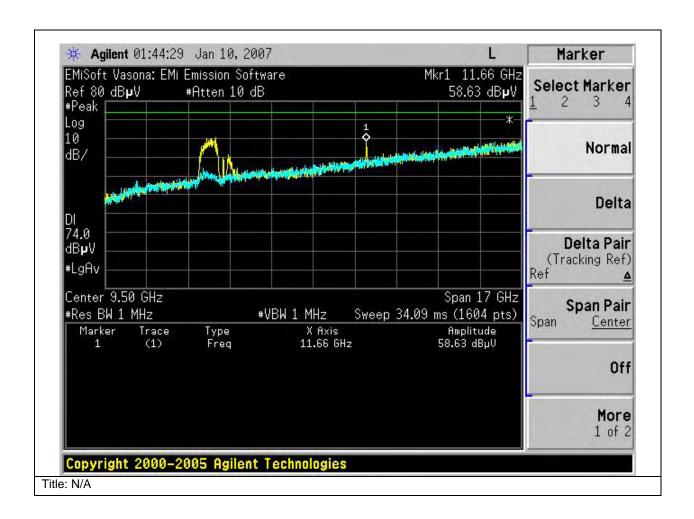


Subtest Number: 2501	0 - 39 <b>Subtest Date</b> : 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5825 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths with Beam Forming_AVERAGE
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments

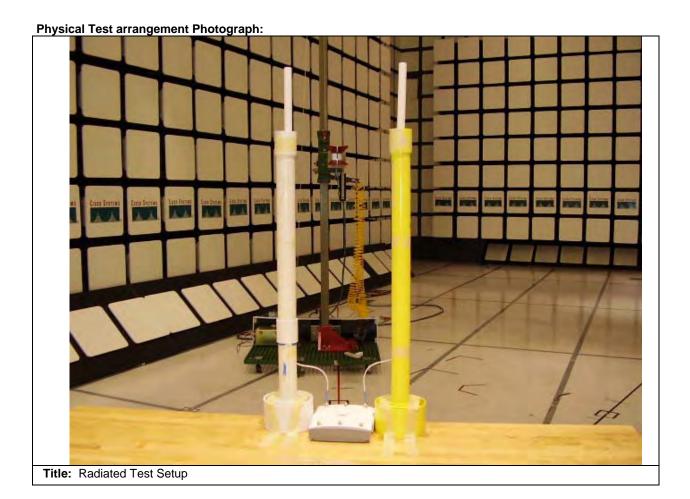




Subtest Number: 250	10 - 40 <b>Subtest Date:</b> 09-Jan-2007
Engineer	James Nicholson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Subtest Title	RADIATED SPURIOUS EMISSIONS, 5825 MHz, 54 Mbps, 17 dBm, Dual Transmit Paths with Beam Forming_PEAK
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments











Title: Radiated Test Setup



## **Conducted emissions**

Test Number: 2462	Test Number: 24621 Spec ID: 708											
Basic Standard	Applied to	Class	Freq Range	Test Details / Comments								
CFR47 Part 15: 2005 (CAN/CSA-CISPR 22-02)	AC Power Line	В	0.15- 30MHz	Test procedure must follow ANSI C63.4 and U.S line voltages must be used (e.g 110V 60Hz).								
Operating Mode	<b>Mode:</b> 1, 2.4GHz	& 5GHz										
Power Input	110, 60Hz (+/-20%	6)										
Overall Result	Pass											
Comments	nents No further comments											
Deviation	There were no de	viations from	the specification									

System Number	Description	Samples	System under test	Support equipment
1	EUT	S01, S02, S03, S04, S05, S06, S07 and S08	☑	
2	Support equipment	S09, S10 and S11		$\checkmark$

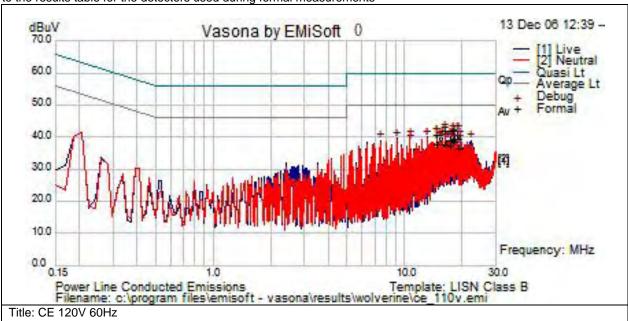
Subtest Number: 2462	11 - 1 Subtest Date: 13-Dec-2006
Engineer	David Wilson
Lab Information	Building P, 10m Anechoic
Subtest Results	
Line Under Test	AC/DC Power Brick
Transducer	LISN
Subtest Result	Pass
Highest Frequency	30.0
Lowest Frequency	0.15
Comments on the above Test Results	EUT powered from 120V/60Hz AC source

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#### **Graphical Test Results**

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



#### **Test Results Table**

16211/62	uito ra	DIE								
Frequency	Raw	Cable	Factors	Level	Measureme	Line	Limit	Margin	Pass /Fail	Comments
MHz	dBuV	Loss	dB	dBuV	nt Type		dBuV	dB		
17.935	15.9	20.5	0.3	36.8	Av	L	50	-13.2	Pass	
18.41	15.7	20.6	0.4	36.6	Av	N	50	-13.4	Pass	
16.328	15.1	20.5	0.2	35.8	Av	N	50	-14.2	Pass	
14.726	14.9	20.5	0.1	35.5	Av	L	50	-14.5	Pass	
17.452	14.4	20.5	0.3	35.2	Av	L	50	-14.8	Pass	
19.055	13.2	20.6	0.4	34.2	Av	L	50	-15.8	Pass	
16.328	19.4	20.5	0.2	40	Qp	N	60	-20	Pass	
17.935	18.9	20.5	0.3	39.8	Qp	L	60	-20.2	Pass	
14.726	18.1	20.5	0.1	38.7	Qp	L	60	-21.3	Pass	
18.41	16.5	20.6	0.4	37.4	Qp	N	60	-22.6	Pass	
19.055	16.2	20.6	0.4	37.2	Qp	L	60	-22.8	Pass	
17.452	16.2	20.5	0.3	37	Qp	L	60	-23	Pass	



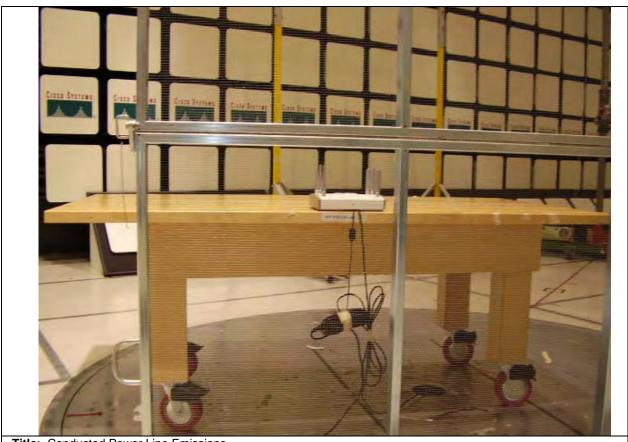


#### Title: Conducted Power Line Emissions

## Comments on the above Photograph:

Cable orientation





Title: Conducted Power Line Emissions

# Comments on the above Photograph:

Showing VCP



#### **Radiated emissions**

Test Number:	<b>Test Number:</b> 24538											
Basic Standard	Applied to	Class	Freq Range	Test Details / Comments								
CFR47 Part 15: 2005	Enclosure	Enclosure B 30MHz-1GHz N/A										
Operating Mode	<b>Mode :</b> 1, 2.4GHz	& 5GHz										
Power Input	110, 60Hz (+/-20%	5)										
Overall Result	Pass											
Comments	No further commer	nts										
Deviation	There were no dev	viations from th	ne specification									

System Number	Description	Samples	System under test	Support equipment
1	EUT	S01, S02, S03, S04, S05, S06, S07 and S08	$\square$	
2	Support equipment	S09, S10 and S11		$\square$

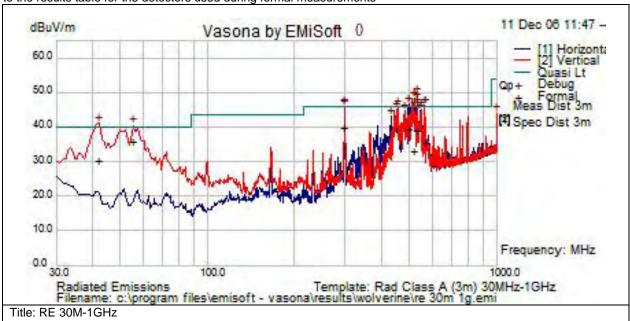
Subtest Number: 2453	8 - 1	Subtest Date: 11-Dec-2006
Engineer	David Wilson	
Lab Information	Building P, 10m Anechoic	
Subtest Results		
Subtest Title	Radiated Emissions 30M-1GHz	
Subtest Result	Pass	
Highest Frequency	1000.0	
Lowest Frequency	30.0	
Comments on the above Test Results	No further comments	

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#### **Graphical Test Results**

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



#### **Test Results Table**

16211/62	est Nesults Table												
Frequency	Raw	Cable	AF dB	Level	Measureme	Pol	Hgt	Azt	Limit	Margin	Pass /Fail	Comments	
MHz	dBuV	Loss		dBuV/m	nt Type		cm	Deg	dBuV/m	dB			
55.592	27.8	0.8	5.3	33.9	Qp	V	106	68	40	-6.1	Pass		
298.539	23.4	1.9	12.7	38	Qp	V	106	182	46	-8	Pass		
498.066	17.7	2.5	17.5	37.7	Ор	Н	180	172	46	-8.3	Pass		
531.182	17	2.4	17.8	37.2	Ор	V	185	267	46	-8.8	Pass		
41.902	17.1	0.7	10.3	28.2	Ор	V	140	177	40	-11.8	Pass		
563.862	12.8	2.5	18.4	33.7	Ор	Н	143	148	46	-12.3	Pass		
518.555	11.3	2.4	17.6	31.3	Ор	Н	348	11	46	-14.7	Pass		



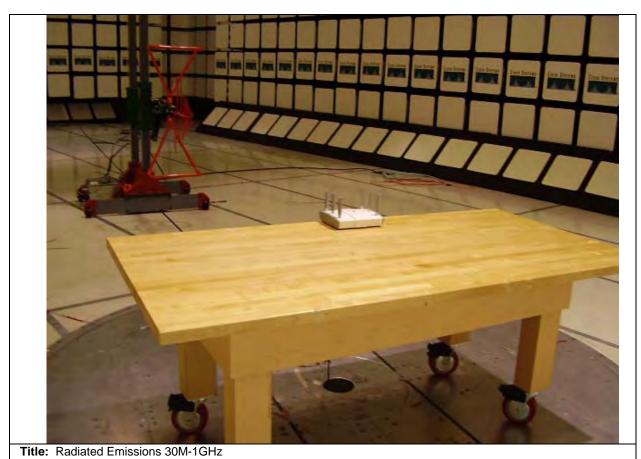




# Comments on the above Photograph:

EUT





# Comments on the above Photograph:

Set-upRadiated emissions



Test Number:	Test Number: 24558 Spec ID: 714											
Basic Standard	Applied to Class Freq Range Test Details / Comments											
CFR47 Part 15: 2005	Enclosure	Enclosure B 1GHz-5.334GHz N/A										
Operating Mode	<b>Mode :</b> 1, 2.4GHz	& 5GHz										
Power Input	110, 60Hz (+/-20%	(a)										
Overall Result	Pass											
Comments	No further comme	nts										
Deviation	There were no dev	iations from t	he specification									

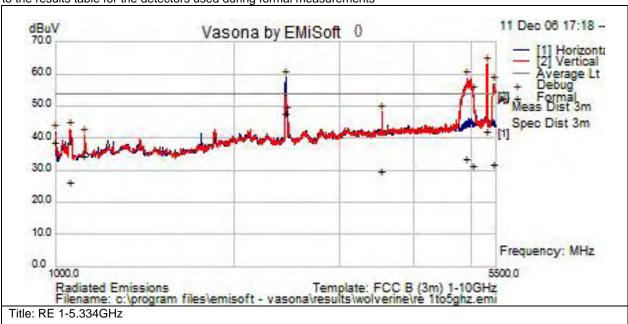
System Number	Description	Samples	System under test	Support equipment
1	EUT	S01, S02, S03, S04, S05, S06, S07 and S08	$\nabla$	
2	Support equipment	S09, S10 and S11		$\square$

Subtest Number: 2455	8 - 1 Subtest Date: 11-Dec-2006
Engineer	David Wilson
Lab Information	Building P, 10m Anechoic
Subtest Results	•
Subtest Title	Radiated Emissions 1-5.334GHz
Subtest Result	Pass
Highest Frequency	5500.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments



#### **Graphical Test Results**

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



#### **Test Results Table**

Frequency	Raw	Cable	AF dB	Level	Measureme	Pol	Hgt	Azt	Limit	Margin	Pass /Fail	Comments
MHz	dBuV	Loss		dBuV	nt Type		cm	Deg	dBuV	dB		
2443.417	47.1	8.1	-9.5	45.7	Av	Н	400	139	54	-8.3	Pass	Carrie
5321.469	35.5	11.4	-6.8	40.1	Av	V	128	338	54	-13.9	Pass	Carrie
1000	47.4	4	-14.8	36.6	Av	Н	228	143	54	-17.4	Pass	
1119.971	42	4.3	-14.1	32.2	Av	V	146	130	54	-21.8	Pass	
4920.173	29.7	9	-7.5	31.2	Av	V	261	338	54	-22.8	Pass	Carrier sideb
5478.853	25.7	10.2	-6.3	29.6	Av	V	118	286	54	-24.4	Pass	Carrier sideb
5053.246	25.3	11.2	-7.2	29.3	Av	V	98	167	54	-24.7	Pass	
3546.414	27.7	7.5	-7.8	27.3	Av	V	336	51	54	-26.7	Pass	
1058.874	34.3	4.2	-14.5	24	Av	V	190	153	54	-30	Pass	





## Comments on the above Photograph:

No further comments



# Appendix C: Abbreviation Key and Definitions

The following table defines abbreviations used within this test report.

Abbreviation	Description	Abbreviation	Description
EMC	Electro Magnetic Compatibility	°F	Degrees Fahrenheit
EMI	Electro Magnetic Interference	°C	Degrees Celsius
EUT	Equipment Under Test	Temp	Temperature
ITE	Information Technology Equipment	S/N	Serial Number
TAP	Test Assessment Schedule	Qty	Quantity
ESD	Electro Static Discharge	emf	Electromotive force
EFT	Electric Fast Transient	RMS	Root mean square
EDCS	Engineering Document Control System	Qp	Quasi Peak
Config	Configuration	Av	Average
CIS#	Cisco Number (unique identification number for Cisco test equipment)	Pk	Peak
Cal	Calibration	kHz	Kilohertz (1x10 <sup>3</sup> )
EN	European Norm	MHz	Megahertz (1x10 <sup>6</sup> )
IEC	International Electro technical Commission	GHz	Gigahertz (1x10 <sup>9</sup> )
CISPR	International Special Committee on Radio Interference	Н	Horizontal
CDN	Coupling/Decoupling Network	V	Vertical
LISN	Line Impedance Stabilization Network	dB	decibel
PE	Protective Earth	V	Volt
GND	Ground	kV	Kilovolt (1x10 <sup>3</sup> )
L1	Line 1	μV	Microvolt (1x10 <sup>-6</sup> )
L2	Line2	Α	Amp
L3	Line 3	μΑ	Micro Amp (1x10 <sup>-6</sup> )
DC	Direct Current	mS	Milli Second (1x10 <sup>-3</sup> )
RAW	Uncorrected measurement value, as indicated by the measuring device	μS	Micro Second (1x10 <sup>-6</sup> )
RF	Radio Frequency	μS	Micro Second (1x10 <sup>-6</sup> )
SLCE	Signal Line Conducted Emissions	m	Meter
Meas dist	Measurement distance	Spec dist	Specification distance
N/A or NA	Not Applicable	SL	Signal Line (or Telecom Line)
Р	Power Line	L	Live Line
N	Neutral Line	R	Return
S	Supply	AC	Alternating Current

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# Appendix D: Test Equipment/Software Used to perform the test

Equip#	Manufacturer/ Model	Description	Last Cal	Next Due	Test Number(s)
5568	HP/	PreAmplifier (1-26.5GHz)	8-Sep-06	8-Sep-07	[25010]
	8449B				
5691	Miteq/	Broadband Preamplifier (1-18GHz)	9-Oct-06	9-Oct-07	[25010]
	NSP1800-25-S1				
21117	Micro-Coax/	RF Coaxial Cable, to 18GHz, 248.4 in	19-Aug-06	19-Aug-07	[25010]
	UFB311A-0-2484-520520				
25657	Micro-Coax/	RF Coaxial Cable, to 18GHz, 84 in	19-Aug-06	19-Aug-07	[25010]
	UFB311A-1-0840-504504				
30495	Agilent/	SPDT RF Switch, to 18GHz	7-Apr-06	7-Apr-07	[25010]
	8761B				
30564	Micro-Coax/	RF Coaxial Cable, to 18GHz, 95 in	19-Aug-06	19-Aug-07	[25010]
	UFB311A-1-0950-504504				
32801	ETS-Lindgren/	Double Ridged Waveguide Horn	28-Jul-06	28-Jul-07	[25010]
	3117	Antenna			
34974	Midwest Microwave/	Attenuator, 20dB, DC-40GHz	9-May-06	9-May-07	[24973], [25010]
	ATT-0640-20-29M-02				
35038	Micro-Tronics/	Notch Filter, SB:5.150-5.350GHz, to 11GHz	17-Jul-06	17-Jul-07	[25010]
	BRC50703-02				
35098	Micro-Coax/	RF Coaxial Cable, to 40 GHz, 18 in	26-Apr-06	26-Apr-07	[24973], [25010]
	UFA147A-0-0180-110200				
35285	ETS-Lindgren/	Double Ridged Waveguide Horn	25-May-06	25-May-07	[25010]
	3117	Antenna			
35605	Micro-Tronics/	Notch Filter, SB:5.470-5.725GHz, to 12GHz	17-Jul-06	17-Jul-07	[25010]
	BRC50704-02				
37576	Micro-Coax/	RF Coaxial Cable, to 18GHz, 320	15-May-06	15-May-07	[25010]
	UFB293C-Q-3200-50U50U	ın			
3325	HP/	EMI Receiver RF Section	30-Oct-06	30-Oct-07	[24538], [24621]
	85462A				
5558	Fischer Custom Communications/	Coupling/Decoupling Network	28-Mar-06	28-Mar-07	[24621]
	FCC-801-M2-32A				
5704	Fischer Custom Communications/	LISN	16-Mar-06	16-Mar-07	[24621]
	FCC-LISN-50-50				
6324	Lufft/	Thermo-Hydrometer	16-Oct-06	16-Oct-07	[24538], [24558], [24621]
	5063-33W				
7591	Agilent/	RF Filter Section	30-Oct-06	30-Oct-07	[24538], [24621]
	85460A				
8195	TTE/	Hi Pass Filter - 150KHz cutoff	4-Jan-06	4-Jan-07	[24621]

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	H613-150K-50-21378				
8320	Times Microwave Systems/	3 ft RG-214 Cable	16-Nov-06	16-Nov-07	[24538]
	RG-214				
8366	Coleman/	1.5 ft RG-223 Cable	7-Nov-06	7-Nov-07	[24621]
	RG-223				
8375	Andrew/	49 ft Heliax Cable	16-Mar-06	16-Mar-07	[24621]
	F4A-PNMNM				
8588	Fischer Custom Communications/	LISN AC Adaptor - Std 120V outlet	16-Mar-06	16-Mar-07	[24621]
	FCC-RFM2F-520R				
18713	Fischer Custom Communications/	Ferrite Decoupler	Cal Not Required	N/A	[24538], [24558]
	F-203I-DCN-32mm				
18963	York/	Comparison Noise Emitter, 30 -	22-May-06	22-May-07	[24621]
	CNE V	1000MHz			
20767	Fischer Custom Communications/	Instrumentation Limiter	10-Jul-06	10-Jul-07	[24621]
	FCC-450B-2.4-N	1			
20975	Micro-Coax/	RF Coaxial Cable, to 18GHz, 134.4 in	16-Mar-06	16-Mar-07	[24538]
	UFB311A-0-1344-520520				
21116	Micro-Coax/	RF Coaxial Cable, to 18GHz, 354 in	16-Mar-06	16-Mar-07	[24538]
	UFB311A-0-3540-520520				
27233	York/	Comparison Noise Emitter	22-May-06	22-May-07	[24538], [24558]
	CNE V				
30442	Micro-Coax/	RF Coaxial Cable, to 18GHz, 480 In.	16-Mar-06	16-Mar-07	[24558]
	UFB311A-0-4800-520520				
30565	Micro-Coax/	Rf Coaxial Cable to 18GHz, 351 in	17-Mar-06	17-Mar-07	[24558]
	UFB311A-1-3510-504504				
30652	Sunol Sciences/	Combination Antenna,	6-Jul-06	6-Jul-07	[24538]
	JB1	30MHz-2GHz			
32455	Midwest Microwave/	RF Coaxial Cable to 18 GHz	11-Sep-06	11-Mar-07	[24621]
	CSY-MNMN-82-273001				
32544	ETS-Lindgren/	Double Ridged Waveguide Horn	5-Jul-06	5-Jul-07	[24558]
	3117	Antenna			
32671	Cisco/	Mast Mount Preamplifier Array, 1-18GHz	21-Jun-06	21-Jun-07	[24558]
	TH0118				
32840	Fluke/	Digital Multimeter	16-Jun-06	16-Jun-07	[24621]
	112				
34188	Micro-Tronics/	Notch Filter, SB:5.150-5.350GHz,	17-Jul-06	17-Jul-07	[24558]
	BRC50703-02	to 11GHz			
34304	Micro-Tronics/	Notch Filter, SB:2.4-2.5GHz, to	17-Jul-06	17-Jul-07	[24558]
	BRM50702-02	18GHz			

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35097	Micro-Coax/	RF Coaxial Cable, to 40 GHz, 18 in	6-Mar-06	6-Mar-07	[24558]
	UFA147A-0-0180-110200				
35248	Stanley/	Tape Measure	9-May-06	9-May-07	[24621]
	33-696				
37241	Micro-Coax/	RF Coaxial Cable, to 18 GHz, 320	11-Sep-06	11-Mar-07	[24538]
	UFB293C-Q-3200-50U50U	in			
37533	Agilent/	Precision Spectrum Analyzer	24-Feb-06	24-Feb-07	[24538],
	E4440A	1			[24558], [24621]
513	Gigatronics/	Universal Power Meter	20-Dec-06	20-Dec-07	[25232],
	8542C				[25234], [25251],
					[25253],
					[25260], [25267]
514	Gigatronics/	Power Sensor, 0.01-18GHz	19-Dec-06	19-Dec-07	[25232],
	80420A				[25234],
					[25251], [25253],
					[25260],
					[25267]
590	Agilent/	Spectrum Analyzer	2-Feb-05	2-Feb-07	[25232],
	E4448A				[25234],
					[25251],
					[25253], [25260],
					[25260],

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